Table 4-1. Radioisotope Results for Round 3A Upstream Subsurface Sediment Samples.

| | | | | | Chemical Name | Beryllium-7 | | Cesium-137 | | Lead-210 | Radium-226 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Unit | dpm/g | | dpm/g | | dpm/g | dpm/g | |
| **Location** | **X_Easting** | **Y_Northing** | **Date** | **Sample ID** | **Depth Interval (cm)** | | | | | | | |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-001 | 0 - 2 | 1.44 | | 0.18 | U | 0.85 | 0.76 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-005 | 8 - 10 | 2.76 | | 0.30 | | 1.65 | 0.81 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-009 | 16 - 18 | 2.24 | | 0.23 | | 1.69 | 0.72 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-013 | 24 - 26 | 3.68 | U | 0.41 | | 1.67 | 0.89 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-017 | 32 - 34 | 3.70 | U | 0.34 | | 1.47 | 0.68 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-021 | 40 - 42 | 2.72 | U | 0.32 | | 1.38 | 1.05 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-025 | 48 - 50 | 2.43 | U | 0.31 | | 1.30 | 1.24 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-029 | 56 - 58 | 3.06 | | 0.60 | | 1.81 | 0.93 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-033 | 64 - 66 | 2.06 | U | 0.20 | U | 1.06 | 0.92 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-037 | 72 - 74 | 2.51 | U | 0.20 | U | 0.69 | 1.15 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-041 | 80 - 82 | 2.43 | U | 0.19 | U | 0.69 | 0.97 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-045 | 88 - 90 | 1.76 | U | 0.16 | | 1.33 | 0.91 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-049 | 96 - 98 | 2.63 | U | 0.37 | | 1.82 | 1.00 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-053 | 104 - 106 | 2.38 | U | 0.17 | U | 2.40 | 0.80 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-057 | 112 - 114 | 1.57 | U | 0.28 | | 2.21 | 0.87 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-061 | 120 - 122 | 1.86 | U | 0.41 | | 1.98 | 0.78 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-065 | 128 - 130 | 1.53 | U | 0.31 | | 2.20 | 0.76 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-069 | 136 - 138 | 2.38 | U | 0.19 | | 1.23 | 0.87 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-073 | 144 - 146 | 3.26 | U | 0.36 | | 1.59 | 0.92 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-077 | 152 - 154 | 3.25 | U | 0.49 | | 2.11 | 0.68 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-081 | 160 - 162 | 3.01 | U | 0.21 | U | 1.46 | 0.95 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-085 | 168 - 170 | 2.60 | U | 0.31 | | 0.97 | 0.96 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-089 | 176 - 178 | 2.18 | U | 0.17 | | 0.96 | 1.01 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-093 | 184 - 186 | 1.88 | U | 0.23 | | 1.36 | 0.83 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-097 | 192 - 194 | 2.18 | U | 0.36 | | 1.76 | 0.70 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-101 | 200 - 202 | 2.06 | U | 0.32 | | 1.95 | 0.73 | J |

Table 4-1. Radioisotope Results for Round 3A Upstream Subsurface Sediment Samples.

| Location | X_Easting | Y_Northing | Date | Sample ID | Depth Interval (cm) | Chemical Name<br>Unit<br>Beryllium-7<br>dpm/g | | Cesium-137<br>dpm/g | | Lead-210<br>dpm/g | Radium-226<br>dpm/g | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-105 | 208 - 210 | 2.42 | U | 0.17 | | 0.95 | 0.99 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-109 | 216 - 218 | 2.40 | U | 0.16 | | 1.10 | 1.09 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-113 | 224 - 226 | 2.55 | U | 0.23 | | 1.11 | 1.14 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-117 | 232 - 234 | 2.14 | U | 0.35 | | 1.77 | 1.07 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-121 | 240 - 242 | 1.82 | U | 0.26 | | 1.55 | 1.24 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-125 | 248 - 250 | 2.38 | U | 0.22 | U | 0.95 | 1.05 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-129 | 256 - 258 | 1.65 | U | 0.28 | | 1.19 | 0.76 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-133 | 264 - 266 | 1.77 | U | 0.26 | | 1.81 | 0.85 | J |
| RC01-1 | 7640655.369 | 692039.8632 | 2/6/2007 | LW3-RC01-137 | 272 - 274 | 1.22 | U | 0.35 | | 2.73 | 0.73 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-001 | 0 - 2 | 2.26 | | 0.21 | | 0.69 | 0.76 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-005 | 8 - 10 | 2.63 | | 0.41 | | 1.05 | 0.87 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-009 | 16 - 18 | 3.05 | | 0.38 | | 1.26 | 1.18 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-013 | 24 - 26 | 3.92 | U | 0.25 | | 1.28 | 1.18 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-017 | 32 - 34 | 4.18 | U | 0.22 | | 1.36 | 1.29 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-021 | 40 - 42 | 3.41 | U | 0.13 | U | 0.52 | 0.93 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-025 | 48 - 50 | 3.11 | U | 0.15 | U | 0.52 | 0.93 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-029 | 56 - 58 | 4.82 | U | 0.42 | | 1.94 | 0.64 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-033 | 64 - 66 | 3.72 | U | 0.52 | | 1.75 | 0.83 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-037 | 72 - 74 | 4.41 | U | 0.53 | | 1.50 | 1.14 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-041 | 80 - 82 | 2.69 | U | 0.42 | | 1.79 | 0.76 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-045 | 88 - 90 | 2.53 | U | 0.18 | | 1.14 | 0.84 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-049 | 96 - 98 | 2.01 | U | 0.20 | | 0.95 | 0.92 | J |

Table 4-1. Radioisotope Results for Round 3A Upstream Subsurface Sediment Samples.

| | | | | | Chemical Name | Beryllium-7 | | Cesium-137 | | Lead-210 | | Radium-226 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Unit | dpm/g | | dpm/g | | dpm/g | | dpm/g | |
| **Location** | **X_Easting** | **Y_Northing** | **Date** | **Sample ID** | **Depth Interval (cm)** | | | | | | | | |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-053 | 104 - 106 | 2.12 | U | 0.28 | | 0.90 | | 0.74 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-057 | 112 - 114 | 1.59 | U | 0.40 | | 1.57 | | 1.24 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-061 | 120 - 122 | 1.60 | U | 0.27 | | 1.42 | | 1.12 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-065 | 128 - 130 | 1.68 | U | 0.35 | | 1.35 | | 1.06 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-069 | 136 - 138 | 4.97 | U J | 0.28 | | 1.11 | | 1.20 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-073 | 144 - 146 | 4.42 | U J | 0.34 | | 1.18 | | 1.13 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-077 | 152 - 154 | 4.54 | U J | 0.33 | | 1.23 | | 1.18 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-081 | 160 - 162 | 3.16 | U | 0.39 | | 1.64 | | 0.99 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-085 | 168 - 170 | 2.15 | U | 0.16 | | 1.23 | | 1.01 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-089 | 176 - 178 | 2.38 | U | 0.28 | | 1.07 | | 0.81 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-093 | 184 - 186 | 1.89 | U | 0.46 | | 1.56 | | 0.89 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-097 | 192 - 194 | 3.24 | U | 0.26 | | 1.57 | | 1.03 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-101 | 200 - 202 | 3.90 | U | 0.47 | | 1.22 | | 1.00 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-105 | 208 - 210 | 3.13 | U J | 0.14 | U | 0.70 | | 0.92 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-109 | 216 - 218 | 4.90 | U J | 0.36 | | 1.01 | | 1.21 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-113 | 224 - 226 | 4.03 | U J | 0.25 | | 1.22 | | 1.23 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-117 | 232 - 234 | 2.19 | U | 0.10 | U | 0.74 | | 0.85 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-121 | 240 - 242 | 2.18 | U | 0.11 | U | 0.65 | | 0.77 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-125 | 248 - 250 | 2.53 | U | 0.13 | U | 0.58 | | 0.73 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-129 | 256 - 258 | 3.35 | U J | 0.37 | | 0.59 | | 1.06 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-133 | 264 - 266 | 4.83 | U J | 0.35 | | 1.31 | | 1.33 | J |

Table 4-1. Radioisotope Results for Round 3A Upstream Subsurface Sediment Samples.

| | | | | | Chemical Name | Beryllium-7 | | Cesium-137 | | Lead-210 | Radium-226 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Unit | dpm/g | | dpm/g | | dpm/g | dpm/g | |
| **Location** | **X_Easting** | **Y_Northing** | **Date** | **Sample ID** | **Depth Interval (cm)** | | | | | | | |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-137 | 272 - 274 | 3.51 | U J | 0.15 | | 0.60 | 1.18 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-141 | 280 - 282 | 2.08 | U | 0.21 | U | 1.47 | 1.09 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-145 | 288 - 290 | 2.21 | U | 0.21 | U | 1.16 | 0.85 | J |
| RC02-1 | 7642097.134 | 690014.7128 | 2/6/2007 | LW3-RC02-149 | 296 - 298 | 1.91 | U | 0.12 | | 0.73 | 0.91 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-001 | 0 - 2 | 2.87 | | 0.23 | | 1.04 | 0.87 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-005 | 8 - 10 | 3.75 | | 0.21 | U | 1.18 | 0.63 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-009 | 16 - 18 | 2.99 | | 0.22 | | 1.24 | 0.83 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-013 | 24 - 26 | 4.14 | U J | 0.33 | | 6.99 | 0.82 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-017 | 32 - 34 | 4.31 | U J | 0.29 | | 1.14 | 1.00 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-021 | 40 - 42 | 2.76 | U J | 0.12 | U | 0.55 | 0.78 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-025 | 48 - 50 | 1.93 | U | 0.34 | | 1.24 | 0.90 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-029 | 56 - 58 | 1.98 | U | 0.24 | | 1.66 | 0.76 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-033 | 64 - 66 | 1.90 | U | 0.31 | | 2.35 | 0.96 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-037 | 72 - 74 | 2.68 | U | 0.59 | | 2.57 | 1.00 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-041 | 80 - 82 | 2.47 | U | 0.27 | | 1.84 | 0.82 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-045 | 88 - 90 | 1.68 | U | 0.40 | | 0.97 | 0.97 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-049 | 96 - 98 | 2.20 | U | 0.29 | | 1.66 | 0.88 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-053 | 104 - 106 | 1.69 | U | 0.29 | | 1.06 | 0.92 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-057 | 112 - 114 | 1.61 | U | 0.49 | | 1.98 | 0.91 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-061 | 120 - 122 | 1.65 | U | 0.25 | | 1.37 | 0.85 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-065 | 128 - 130 | 1.47 | U | 0.22 | | 1.49 | 1.02 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-069 | 136 - 138 | 5.45 | U J | 0.38 | | 1.27 | 0.98 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-073 | 144 - 146 | 4.38 | U J | 0.31 | | 1.59 | 0.86 | J |

Table 4-1. Radioisotope Results for Round 3A Upstream Subsurface Sediment Samples.

| | | | | | **Chemical Name** | **Beryllium-7** | | **Cesium-137** | | **Lead-210** | **Radium-226** | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | **Unit** | **dpm/g** | | **dpm/g** | | **dpm/g** | **dpm/g** | |
| **Location** | **X_Easting** | **Y_Northing** | **Date** | **Sample ID** | **Depth Interval (cm)** | | | | | | | |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-077 | 152 - 154 | 3.38 | U J | 0.27 | | 1.22 | 0.88 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-081 | 160 - 162 | 2.64 | U | 0.48 | | 1.99 | 0.87 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-085 | 168 - 170 | 3.10 | U | 0.63 | | 1.49 | 0.91 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-089 | 176 - 178 | 1.90 | U | 0.19 | | 0.83 | 0.89 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-093 | 184 - 186 | 1.81 | U | 0.19 | | 1.10 | 0.63 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-097 | 192 - 194 | 1.71 | U | 0.34 | | 1.43 | 1.07 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-101 | 200 - 202 | 2.02 | U | 0.32 | | 1.52 | 0.92 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-105 | 208 - 210 | 4.84 | U J | 0.41 | | 1.48 | 0.78 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-109 | 216 - 218 | 4.99 | U J | 0.53 | | 2.30 | 0.78 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-113 | 224 - 226 | 4.71 | U J | 0.33 | | 1.82 | 0.79 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-117 | 232 - 234 | 1.91 | U | 0.27 | | 1.08 | 1.00 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-121 | 240 - 242 | 2.34 | U | 0.38 | | 1.19 | 1.01 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-125 | 248 - 250 | 2.61 | U | 0.40 | | 1.00 | 1.02 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-129 | 256 - 258 | 4.39 | U J | 0.35 | | 1.35 | 0.81 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-133 | 264 - 266 | 3.90 | U J | 0.19 | U | 1.74 | 1.07 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-137 | 272 - 274 | 2.96 | U J | 0.19 | | 0.83 | 0.97 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-141 | 280 - 282 | 1.56 | U | 0.20 | | 1.38 | 0.95 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-145 | 288 - 290 | 1.96 | U | 0.44 | | 2.03 | 1.02 | J |
| RC483-1 | 7637004.942 | 695285.0942 | 2/6/2007 | LW3-RC483-149 | 296 - 298 | 1.57 | U | 0.39 | | 1.43 | 1.03 | J |