Quantitative Environmental Analysis, LLC
$\partial c / \partial t$

## Appendix E

# Adjustment of the Dredging Surface to Account 

 for Cores with Depths of Contamination Different than the Dredging SurfacePrepared for:
General Electric Company
Albany, NY

Prepared by:
Quantitative Environmental Analysis, LLC
Austin, TX

March 21, 2006

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Prepared for:<br>General Electric Company<br>Albany, NY

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Job Number:
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March 21, 2006

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## E. 1 BACKGROUND

An interpolation of total polychlorinated biphenyl (PCB) concentrations at depth was performed to establish the vertical extent of dredging for the Phase 1 dredge areas of the Upper Hudson River. The interpolation was performed in accordance with the procedures briefly described below and specified in Attachment A (Critical Phase 1 Design Elements) of Appendix B (Statement of Work for Remedial Action and Operation, Maintenance and Monitoring) of the Consent Decree executed by the U.S. Environmental Protection Agency (USEPA) and the General Electric Company (GE) and lodged in federal district court on October 6, 2005.

The thickness of sediment below which the total PCB concentration is less than 1 milligram per kilogram ( $\mathrm{mg} / \mathrm{kg}$ ) was developed by interpolating total PCB concentrations for the following layers: 0 to 2 inches, 2 to 12 inches, 12 to 24 inches, 24 to 30 inches, and every 6 inches thereafter until the maximum Depth of Contamination (DoC) in a given area was reached. The DoC for each 10 -foot by 10 -foot grid cell was set at the bottom depth of the deepest layer with a total PCB concentration equal to or greater than $1 \mathrm{mg} / \mathrm{kg}$, thereby forming a contoured DoC surface. The 10 -foot by 10 -foot grid was converted to a 1 -foot by 1 -foot grid by interpolation using Delauney Triangles. The DoC surface was converted to an elevation surface using multi-beam bathymetry data. This DoC elevation surface was then combined with the elevation of Glacial Lake Albany Clay in areas where it was determined that the depth to Glacial Lake Albany Clay provided a logical vertical boundary for dredging. The final surface was a 1foot by 1-foot grid of elevations to which dredging would have to reach to capture the PCB mass.

Although the interpolation method applied to establish the DoC surface was an exact interpolator (i.e., it honored the data at each location where data were available) and used all of the available and applicable data, there are cases where the DOC surface differs from the DoC established by data (or extrapolation) in a particular core. The differences are due to one or more of the following reasons:

- In general, most core locations do not coincide with a node of the 10 -foot by 10 -foot grid. Consequently, the interpolated DoCs at the grid nodes differ from the DoCs of the cores
off the grid. The interpolation from the 10 -foot by 10 -foot grid to the 1 -foot by 1 -foot grid using Delauney Triangles can result in a value at a 1 -foot by 1 -foot grid node that differs from the DoC of a core located at that node or proximate to it.
- The interpolation of DoCs on the 10 -foot by 10 -foot grid used data within an established neighborhood, which could include from one core to many cores. It was possible to have one core within that neighborhood with a total PCB concentration very close to $1 \mathrm{mg} / \mathrm{kg}$, but other cores within that neighborhood with higher total PCB concentrations. This situation would result in the core with the lower concentrations being "overwhelmed" by the neighboring cores, and the resulting interpolated value at the node near this core would be influenced by the cores with the higher concentrations.
- In some cases, the value at a given grid node was influenced by a pair of co-located cores with differing PCB profiles. As a result, the node would have a DoC that is different from one of the cores, depending on the structure of the profiles.


## E. 2 METHODOLOGY TO IDENTIFY CORES TO BE USED TO ADJUST THE DOC SURFACE

The DoC of each core in the Phase 1 data set was compared to the DoC of the closest 1foot by 1-foot grid node. The DoC surface was not adjusted in every case where a difference exists. Given uncertainties in the measured DoC (e.g., extrapolation techniques, doubling of cores, core sectioning, etc.) and the impracticality of a dredging surface with localized holes or mounds developed to accommodate single DoC measurements, criteria were established to define when an adjustment in the surface was warranted, as discussed below.

## E.2.1 Cores that Penetrate Below the DoC Surface

For those cores in which the measured or extrapolated DoC penetrated below the interpolated DoC surface, downward adjustments to the DoC surface were made if the core met either of the following criteria (except where one of the "exclusion conditions" listed separately below was present):

- The core was incomplete with the bottom of its last measured section shallower than the DoC surface by less than or equal to 6 inches and a total PCB concentration greater than or equal to $25 \mathrm{mg} / \mathrm{kg}$ was measured in that section.
- The core was incomplete or complete with a total PCB concentration greater than 10 $\mathrm{mg} / \mathrm{kg}$ below the DoC surface.

Both of these criteria are meant to identify locations where it is likely that the DoC surface is above sediments containing PCBs significantly above $1 \mathrm{mg} / \mathrm{kg}$.

Downward adjustments to the DoC surface were not made for "penetrating" cores that did not meet the above criteria. In addition, even for cores that did meet those criteria, downward adjustments to the DoC surface were not made if the cores satisfied one of the following "exclusion conditions," based on the PCB profile or location of the core:

- The core is located outside dredge area.
- The core is located in a "dredge to Glacial Lake Albany Clay" area. In these cases, it was assumed that the estimation of the clay layer elevation was sufficient to establish the dredge depth.
- The core is complete and has a measured DoC that differs from the nearest node on the DoC surface by no more than 2 inches.
- The core's DoC was affected by reporting limit issues (i.e., a core classified as Confidence Level 2E) and the DoC surface captures all the measured core concentrations above $1 \mathrm{mg} / \mathrm{kg}$. (The confidence level categories for the cores in Phase 1 areas were defined in the Phase 1 Dredge Area Delineation Report, submitted by GE in February 2005, and approved by USEPA on March 30, 2005).

For all Confidence Level 1 cores (i.e., complete cores with no reporting limit issues) meeting the criteria for DoC surface adjustment, the DoC surface was adjusted using the core's measured DoC. For Confidence Level 2 cores (i.e., extrapolated, doubled, and other), the core DoC was compared to the DoCs of surrounding cores up to 100 feet away that were also within the dredge area. The DoC surface was adjusted using the minimum of the following:

- the DoC of the subject core; or
- the deepest DoC of the surrounding cores that are not Confidence Level 2D (cores in which DoC was set by doubling of the core depth).

If the DoC under the second criterion was shallower than the DoC surface at the nearest node, the DoC surface was not adjusted downward. If the DoC under this criterion was less than the depth of the last measured section in the subject core, then the adjusted DoC was set to the depth of the last measured section.

## E.2.2 Cores that Do Not Reach the DoC Surface

In addition to the cores in which the measured or extrapolated DoC penetrated below the DoC surface, some cores had DoC that was more shallow than the DoC surface. However, not all such cores warranted upward adjustments to the interpolated surface. It was felt that such adjustment would be justified only when there was confidence in the core's DoC and there was a substantial difference between the interpolated surface and the core's DoC. Thus, the DoC surface was adjusted to be shallower only for complete Confidence Level 1 cores with measured DoCs that differed from the DoC surface by 6 inches or more.

## E. 3 DATA SET OF CORES MEETING THE CRITERIA FOR ADJUSTMENT

For the Phase 1 areas, 324 cores had a measured or extrapolated DoC deeper than the DoC surface determined from interpolation. Of these cores, 68 met one of the criteria for a downward adjustment of the DoC surface at that location and did not meet any of the "exclusion conditions" listed above (Table E-1). These cores thus warranted downward adjustment of the DoC surface. The remaining 256 cores either did not meet the initial criteria for downward adjustment or else met one of the "exclusion conditions" indicating that adjustment of the DoC surface was not necessary. These 256 cores are listed in Table E-2, along with a flag indicating the reason each core was excluded in the DoC surface adjustment.

In addition, 102 cores in Phase 1 areas had a measured or extrapolated DoC that was more shallow than the DoC surface by 6 inches or more. These cores are listed in Table E-3. These cores warranted an upward adjustment of the DoC surface.

For the 68 cores that met the criteria for downward adjustment of the DoC surface, Figure E-1 shows the analysis of the neighboring cores within a 100 -foot buffer. These plots indicate a distribution of DoCs for all cores within the 100-foot buffer, the measured DoC of the core, the value of the DoC surface, and the final value selected using the analysis described above to set the adjusted DoC surface value.

## E. 4 ADJUSTMENT OF THE DOC SURFACE

The set of DoC values to be used to adjust the DoC surface was merged with the DoC values on the 10 -foot by 10 -foot grid that had been established by interpolation using the complete Phase 1 data set. However, if any interpolated grid points were located less than 0.7 feet from the adjusted DoC value, they were removed from the grid. The 0.7 -foot overlap was chosen based on professional judgment because the 10 -foot grid cells would be further interpolated to 1 -foot grid cells using Delauney Triangles. The irregular grid was used to interpolate DoC values onto a 1-foot by 1-foot grid following the procedures used to establish the original 1-foot by 1-foot grid. This surface was then converted to elevations and recombined with the elevation to Lake Albany Clay layer to result in a final surface that was used to establish the dredge prisms.

The impact on the Phase 1 dredge prisms of the cores in which DoC either penetrated or did not reach the interpolated surface was minimal. In total, there were 170 points at which adjustments to the DoC surface were made. These adjustments made minor increases in the projected volumes (about a $0.12 \%$ increase) and slight changes in the overall prism geometry.

## TABLES

Table E-1. Cores with DoC Penetrating the DoC Surface and Meeting the Criteria for Downward Adjustment of the Surface.

| Core ID | Confidence Flag | Subgroup | Measured DoC (in.) | $\begin{aligned} & \text { DoC from } \\ & \text { Interpolation } \\ & \text { (in.) } \end{aligned}$ | Depth of Last Measured Segment (in.) | Total PCB Concentration in Last Measured Segment (mg/kg) | Reason |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RS1-9594-AR019 | LEVEL2 | A | 46 | 29 | 26 | 49 | 1 |
| RS1-9594-IN049 | LEVEL2 | A | 78 | 43 | 41 | 1150 | 1 |
| RS1-9594-WT088 | LEVEL2 | D | 23 | 12 | 10 | 33 | 1 |
| RS1-9594-IN046 | LEVEL2 | A | 60 | 30 | 30 | 360 | 1 |
| RS1-9493-WS710 | LEVEL1 | A | 24 | 12 | 36 | 0 | 2 |
| RS1-9493-WS090 | LEVEL1 | A | 42 | 27 | 45 | 0 | 2 |
| RS1-9594-WT701 | LEVEL1 | A | 42 | 24 | 46 | 0 | 2 |
| RS1-9594-WT107 | LEVEL1 | A | 36 | 31 | 53 | 0 | 2 |
| RS1-9493-EP010 | LEVEL1 | A | 36 | 30 | 67 | 0 | 2 |
| RS1-9594-TT215 | LEVEL1 | A | 36 | 24 | 40 | 0.06 | 2 |
| RS1-9594-AR051 | LEVEL1 | A | 30 | 24 | 36 | 0.36 | 2 |
| RS1-9594-WT112 | LEVEL1 | A | 42 | 30 | 46 | 0.88 | 2 |
| RS1-9493-AR038 | LEVEL2 | D | 74 | 28 | 37 | 41 | 2 |
| RS1-9594-PR004 | LEVEL2 | A | 50 | 25 | 28 | 76 | 2 |
| RS1-9594-WT098 | LEVEL2 | A | 57 | 26 | 32 | 131 | 2 |
| RS1-9594-IN032 | LEVEL2 | R | 30 | 12 | 18 | 330 | 2 |
| RS1-9493-AR036 | LEVEL1 | A | 36 | 24 | 69 | 0.05 | 2 |
| RS1-9493-EP012 | LEVEL2 | A | 32 | 24 | 32 | 1.21 | 2 |
| RS1-9594-IN047 | LEVEL2 | R | 24 | 12 | 18 | 11.6 | 2 |
| RS1-9493-AR318 | LEVEL2 | D | 146 | 48 | 42 | 18100 | 1 |
| RS1-9493-WS089 | LEVEL2 | A | 58 | 39 | 34 | 133 | 1 |
| RS1-9493-WS709 | LEVEL2 | D | 64 | 32 | 32 | 1031 | 1 |
| RS1-9493-WT011 | LEVEL2 | D | 110 | 54 | 53 | 76 | 1 |
| RS1-9493-WT077 | LEVEL2 | D | 73 | 40 | 34 | 461 | 1 |
| RS1-9493-WT080 | LEVEL2 | A | 48 | 31 | 28 | 60.5 | 1 |
| RS1-9493-AR317 | LEVEL2 | D | 156 | 34 | 66 | 2.35 | 2 |
| RS1-9493-WT014 | LEVEL2 | A | 106 | 64 | 71 | 1106 | 2 |
| RS1-9493-WT017 | LEVEL2 | A | 106 | 64 | 72 | 890 | 2 |
| RS1-9493-WT076 | LEVEL2 | A | 106 | 70 | 71 | 1010 | 2 |
| RS1-9594-IN074 | LEVEL2 | R | 36 | 24 | 30 | 116 | 2 |
| RS1-9594-TT211 | LEVEL2 | A | 62 | 32 | 36 | 213 | 2 |
| RS1-9493-WS626 | LEVEL1 | A | 24 | 17 | 36 | 0.27 | 2 |
| RS1-9493-WT046 | LEVEL1 | A | 48 | 44 | 74 | 0 | 2 |
| RS1-9493-CS634 | LEVEL2 | D | 64 | 36 | 32 | 190 | 1 |
| RS1-9493-AB090 | LEVEL2 | A | 71 | 54 | 50 | 61 | 1 |
| RS1-9392-WT025 | LEVEL2 | A | 32 | 17 | 14 | 110 | 1 |
| RS1-9493-AR055 | LEVEL2 | D | 40 | 22 | 20 | 67 | 1 |
| RS1-9392-CT178 | LEVEL2 | A | 43 | 24 | 22 | 67 | 1 |
| RS1-9493-CS116 | LEVEL2 | R | 36 | 24 | 24 | 49 | 1 |
| RS1-9493-IN075 | LEVEL2 | F | 71 | 54 | 54 | 30 | 1 |
| RS1-9392-WT197 | LEVEL2 | A | 60 | 30 | 31 | 410 | 2 |


| Core ID | Confidence Flag | Subgroup | Measured DoC (in.) | DoC from Interpolation (in.) | Depth of Last <br> Measured Segment (in.) | Total PCB <br> Concentration <br> in Last <br> Measured <br> Segment <br> (mg/kg) <br> 1 | Reason |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RS1-9493-CS644 | LEVEL2 | R | 24 | 12 | 16 | 11.67 | 2 |
| RS1-9493-IN053 | LEVEL2 | D | 80 | 36 | 40 | 150 | 2 |
| RS1-9493-WT725 | LEVEL2 | A | 91 | 52 | 58 | 660 | 2 |
| RS1-9493-AB088 | LEVEL2 | A | 66 | 54 | 66 | 1.3 | 2 |
| RS1-9493-WS715 | LEVEL2 | D | 142 | 54 | 71 | 2500 | 2 |
| RS1-9392-CL001 | LEVEL1 | A | 24 | 18 | 35 | 0.075 | 2 |
| RS1-9493-CS661 | LEVEL1 | A | 24 | 17 | 36 | 0 | 2 |
| RS1-9392-WT067 | LEVEL2 | R | 60 | 14 | 37 | 17.58 | 2 |
| RS1-9392-ET122 | LEVEL1 | A | 24 | 20 | 46 | 0 | 2 |
| RS1-9190-EP006 | LEVEL2 | D | 20 | 12 | 10 | 104 | 1 |
| RS1-9190-ET284 | LEVEL2 | A | 19 | 12 | 19 | 1.37 | 2 |
| RS1-9190-ET291 | LEVEL1 | A | 18 | 12 | 24 | 0.73 | 2 |
| RS1-9190-WT227 | LEVEL1 | A | 24 | 12 | 26 | 0.19 | 2 |
| RS1-9190-ET390 | LEVEL1 | A | 24 | 17 | 36 | 0 | 2 |
| RS1-9190-CL031 | LEVEL1 | A | 24 | 16 | 36 | 0 | 2 |
| RS1-9190-ET323 | LEVEL1 | A | 24 | 16 | 36 | 0 | 2 |
| RS1-9190-WT273 | LEVEL1 | A | 24 | 13 | 36 | 0 | 2 |
| RS1-9190-ET373 | LEVEL1 | A | 24 | 12 | 36 | 0 | 2 |
| RS1-9089-ET003 | LEVEL1 | A | 24 | 12 | 36 | 0 | 2 |
| RS1-9190-ET275 | LEVEL1 | A | 24 | 12 | 36 | 0 | 2 |
| RS1-9190-ET310 | LEVEL1 | A | 24 | 12 | 36 | 0 | 2 |
| RS1-9190-ET324 | LEVEL1 | A | 36 | 30 | 59 | 0 | 2 |
| RS1-9089-CL001 | LEVEL1 | A | 36 | 30 | 66 | 0 | 2 |
| RS1-9190-ET302 | LEVEL1 | A | 24 | 12 | 52 | 0 | 2 |
| RS1-9190-ET425 | LEVEL1 | A | 24 | 12 | 57 | 0.03 | 2 |
| RS1-9190-CS318 | LEVEL1 | A | 24 | 12 | 62 | 0 | 2 |
| RS1-9190-ET358 | LEVEL1 | A | 24 | 12 | 62 | 0 | 2 |

## Reasons for Adjusting DoC Surface Cores:

1. The core was incomplete with the bottom of its last measured section shallower than the DoC surface by less than or equal to 6 inches and a total PCB concentration greater than or equal to $25 \mathrm{mg} / \mathrm{kg}$ was measured in that section; AND none of the "exclusion conditions" listed in the text was present.
2. The core was incomplete or complete with a total PCB concentration greater than $10 \mathrm{mg} / \mathrm{kg}$ below the DoC surface; AND none of the "exclusion conditions" listed in the text was present.

## Acronyms:

DoC = depth of contamination
in. = inches
PCB = polychlorinated biphenyl
$\mathrm{mg} / \mathrm{kg}=$ milligram per kilogram

Table E-2. Cores with DoC Penetrating the DoC Surface and Meeting the Criteria for No Downward Adjustment of the Surface.
$\left.\begin{array}{|l|l|c|c|c|c|c|c|}\hline \text { Core ID } & \begin{array}{c}\text { Confidence } \\ \text { Flag }\end{array} & \begin{array}{c}\text { Sub- } \\ \text { group }\end{array} & \begin{array}{c}\text { Measured } \\ \text { DoC (in.) }\end{array} & \begin{array}{c}\text { DoC from } \\ \text { Interpolation } \\ \text { (in.) }\end{array} & \begin{array}{c}\text { Depth of } \\ \text { Last } \\ \text { Measured } \\ \text { Segment } \\ \text { (in.) }\end{array} & \begin{array}{c}\text { Total PCB } \\ \text { Concentration } \\ \text { in Last } \\ \text { Measured } \\ \text { Segment } \\ \text { (mg/kg) }\end{array} & \text { Reason }\end{array}\right]$

| Core ID | Confidence Flag | Subgroup | Measured DoC (in.) | DoC from Interpolation (in.) | Depth of Last <br> Measured Segment (in.) | Total PCB <br> Concentration <br> in Last <br> Measured <br> Segment <br> (mg/kg) | Reason |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RS1-9594-WS091 | LEVEL2 | D | 26 | 12 | 11 | 9.4 | 5 |
| RS1-9493-WS087 | LEVEL2 | A | 30 | 24 | 23 | 5.6 | 5 |
| RS1-9594-WT155 | LEVEL2 | A | 30 | 24 | 25 | 5.2 | 6 |
| RS1-9594-AR059 | LEVEL1 | A | 30 | 24 | 33 | 0.59 | 6 |
| RS1-9594-ID053 | LEVEL2 | R | 60 | 30 | 35 | 7.1 | 6 |
| RS1-9594-WT713 | LEVEL2 | R | 33 | 24 | 28 | 8.9 | 6 |
| RS1-9594-PR007 | LEVEL2 | E | 24 | 12 | 48 | 0 | 7 |
| RS1-9493-WT024 | LEVEL1 | A | 54 | 44 | 89 | 0 | 2 |
| RS1-9493-WT032 | LEVEL2 | A | 48 | 32 | 48 | 1.9 | 2 |
| RS1-9493-WT036 | LEVEL2 | A | 54 | 38 | 54 | 1.09 | 2 |
| RS1-9493-WT042 | LEVEL2 | D | 64 | 43 | 30 | 28 | 2 |
| RS1-9493-WT045 | LEVEL2 | D | 80 | 29 | 38 | 359 | 2 |
| RS1-9493-WT053 | LEVEL2 | C | 54 | 44 | 54 | 24.9 | 2 |
| RS1-9493-WT059 | LEVEL1 | A | 42 | 39 | 48 | 0.29 | 2 |
| RS1-9493-WT060 | LEVEL1 | A | 24 | 21 | 30 | 0.18 | 2 |
| RS1-9493-WT061 | LEVEL1 | A | 36 | 28 | 42 | 0 | 2 |
| RS1-9493-WT068 | LEVEL2 | D | 75 | 70 | 36 | 140 | 2 |
| RS1-9493-WT069 | LEVEL1 | A | 30 | 27 | 36 | 0.1 | 2 |
| RS1-9493-AR314 | LEVEL1 | A | 36 | 34 | 48 | 0.3 | 3 |
| RS1-9493-AR322 | LEVEL1 | A | 48 | 46 | 72 | 0.07 | 3 |
| RS1-9493-WS616 | LEVEL1 | A | 42 | 40 | 57 | 0 | 3 |
| RS1-9594-EP015 | LEVEL1 | A | 24 | 23 | 36 | 0 | 3 |
| RS1-9493-AR037 | LEVEL2 | A | 94 | 81 | 64 | 290 | 4 |
| RS1-9493-AR039 | LEVEL2 | D | 34 | 24 | 17 | 80 | 4 |
| RS1-9493-IN024 | LEVEL2 | A | 94 | 90 | 55 | 1850 | 4 |
| RS1-9493-WS614 | LEVEL2 | A | 37 | 32 | 19 | 37 | 4 |
| RS1-9493-WT002 | LEVEL2 | D | 43 | 36 | 20 | 29 | 4 |
| RS1-9493-WT005 | LEVEL2 | D | 43 | 41 | 20 | 42.17 | 4 |
| RS1-9493-WT008 | LEVEL2 | D | 56 | 51 | 26 | 130 | 4 |
| RS1-9493-WT018 | LEVEL2 | D | 70 | 47 | 33 | 218 | 4 |
| RS1-9493-WT022 | LEVEL2 | A | 32 | 30 | 18 | 25 | 4 |
| RS1-9493-WT041 | LEVEL2 | A | 68 | 54 | 36 | 723 | 4 |
| RS1-9493-WT072 | LEVEL2 | D | 45 | 30 | 20 | 310 | 4 |
| RS1-9493-WT085 | LEVEL2 | D | 54 | 37 | 25 | 197 | 4 |
| RS1-9493-WT702 | LEVEL2 | D | 86 | 54 | 43 | 125.71 | 4 |
| RS1-9493-WT703 | LEVEL2 | D | 65 | 54 | 32 | 77.4 | 4 |
| RS1-9493-WT704 | LEVEL2 | A | 56 | 54 | 30 | 154.4 | 4 |
| RS1-9594-AR010 | LEVEL2 | A | 38 | 36 | 26 | 12 | 4 |
| RS1-9594-AR015 | LEVEL2 | D | 28 | 24 | 14 | 47 | 4 |
| RS1-9594-IN002 | LEVEL2 | A | 31 | 30 | 22 | 6.9 | 4 |
| RS1-9594-IN005 | LEVEL2 | F | 40 | 36 | 27 | 13.5 | 4 |
| RS1-9594-WT142 | LEVEL2 | A | 45 | 37 | 25 | 77 | 4 |
| RS1-9594-WT157 | LEVEL2 | A | 40 | 34 | 23 | 41 | 4 |


| Core ID | Confidence Flag | Subgroup | Measured <br> DoC (in.) | DoC from Interpolation (in.) | Depth of Last Measured Segment (in.) | Total PCB <br> Concentration <br> in Last <br> Measured <br> Segment <br> (mg/kg) | Reason |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RS1-9594-WT611 | LEVEL2 | A | 40 | 36 | 28 | 10.29 | 4 |
| RS1-9594-WT706 | LEVEL2 | A | 44 | 35 | 22 | 79 | 4 |
| RS1-9493-AR040 | LEVEL2 | A | 50 | 43 | 37 | 13 | 5 |
| RS1-9493-AR312 | LEVEL2 | A | 57 | 53 | 52 | 3.06 | 5 |
| RS1-9493-WS101 | LEVEL2 | R | 18 | 12 | 11 | 24 | 5 |
| RS1-9594-AR004 | LEVEL2 | R | 36 | 24 | 20 | 15 | 5 |
| RS1-9594-AR007 | LEVEL2 | D | 40 | 24 | 20 | 5.4 | 5 |
| RS1-9594-WS081 | LEVEL2 | R | 4 | 2 | 2 | 22.8 | 5 |
| RS1-9594-WT116 | LEVEL2 | A | 15 | 12 | 9 | 3.8 | 5 |
| RS1-9493-TT222 | LEVEL1 | A | 30 | 27 | 54 | 0 | 6 |
| RS1-9493-WS097 | LEVEL1 | A | 36 | 31 | 48 | 0 | 6 |
| RS1-9493-WT015 | LEVEL2 | A | 69 | 54 | 61 | 8.7 | 6 |
| RS1-9493-WT055 | LEVEL1 | A | 36 | 31 | 85 | 0 | 6 |
| RS1-9594-WT171 | LEVEL2 | F | 34 | 24 | 34 | 1.46 | 6 |
| RS1-9493-CL003 | LEVEL1 | A | 24 | 12 | 36 | 0 | 6 |
| RS1-9493-WT034 | LEVEL1 | A | 24 | 12 | 65 | 0 | 6 |
| RS1-9493-WT079 | LEVEL1 | A | 24 | 20 | 76 | 0 | 6 |
| RS1-9594-WT143 | LEVEL1 | A | 24 | 16 | 36 | 0 | 6 |
| RS1-9594-WT704 | LEVEL1 | A | 24 | 16 | 36 | 0 | 6 |
| RS1-9493-AR103 | LEVEL2 | A | 8 | 4 | 6 | 2.01 | 1 |
| RS1-9493-AR092 | LEVEL1 | A | 6 | 4 | 20 | 0 | 1 |
| RS1-9493-CL006 | LEVEL1 | A | 2 | 0 | 24 | 0 | 1 |
| RS1-9493-AR107 | LEVEL1 | A | 12 | 11 | 36 | 0 | 1 |
| RS1-9493-WT102 | LEVEL1 | A | 2 | 1 | 40 | 0 | 1 |
| RS1-9493-AR078 | LEVEL2 | R | 18 | 15 | 14 | 2.9 | 1 |
| RS1-9493-ET232 | LEVEL1 | A | 12 | 4 | 16 | 0 | 1 |
| RS1-9493-ET253 | LEVEL1 | A | 12 | 4 | 18 | 0.039 | 1 |
| RS1-9493-CL004 | LEVEL1 | A | 12 | 8 | 30 | 0.09 | 1 |
| RS1-9493-PR006 | LEVEL1 | A | 12 | 6 | 30 | 0 | 1 |
| RS1-9493-AB058 | LEVEL2 | D | 24 | 12 | 12 | 1.4 | 1 |
| RS1-9493-WT207 | LEVEL1 | A | 24 | 20 | 36 | 0 | 1 |
| RS1-9392-ET069 | LEVEL1 | A | 24 | 20 | 49 | 0 | 1 |
| RS1-9392-WT126 | LEVEL1 | A | 24 | 12 | 51 | 0 | 1 |
| RS1-9493-CS139 | LEVEL1 | A | 6 | 4 | 13 | 0.6 | 2 |
| RS1-9493-CS175 | LEVEL1 | A | 9 | 8 | 18 | 0 | 2 |
| RS1-9493-CS127 | LEVEL1 | A | 12 | 11 | 24 | 0 | 2 |
| RS1-9493-WS628 | LEVEL1 | A | 18 | 17 | 30 | 0 | 2 |
| RS1-9493-CT677 | LEVEL1 | A | 17 | 16 | 30 | 0 | 2 |
| RS1-9493-CT665 | LEVEL1 | A | 18 | 16 | 30 | 0 | 2 |
| RS1-9493-WS712 | LEVEL1 | A | 24 | 22 | 36 | 0 | 2 |
| RS1-9493-CT676 | LEVEL1 | A | 14 | 12 | 30 | 0 | 2 |
| RS1-9493-GR113 | LEVEL1 | A | 12 | 11 | 30 | 0 | 2 |
| RS1-9493-CT202 | LEVEL1 | A | 12 | 10 | 30 | 0 | 2 |


| Core ID | Confidence Flag | Subgroup | Measured <br> DoC (in.) | DoC from Interpolation (in.) | Depth of Last <br> Measured Segment (in.) | Total PCB <br> Concentration <br> in Last <br> Measured <br> Segment <br> (mg/kg) | Reason |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RS1-9493-ID114 | LEVEL1 | A | 2 | 0 | 24 | 0 | 2 |
| RS1-9493-IN049 | LEVEL2 | A | 70 | 52 | 48 | 99 | 2 |
| RS1-9493-ET238 | LEVEL2 | B | 17 | 9 | 6 | 249 | 2 |
| RS1-9493-WS135 | LEVEL2 | A | 50 | 25 | 24 | 230 | 2 |
| RS1-9493-CS133 | LEVEL2 | A | 32 | 20 | 20 | 12 | 2 |
| RS1-9493-CT258 | LEVEL2 | A | 27 | 9 | 12 | 28.2 | 2 |
| RS1-9493-WT187 | LEVEL2 | A | 29 | 19 | 22 | 5.6 | 2 |
| RS1-9493-WS627 | LEVEL2 | R | 36 | 16 | 20 | 109 | 2 |
| RS1-9493-CS649 | LEVEL2 | A | 43 | 23 | 29 | 15 | 2 |
| RS1-9493-WS110 | LEVEL2 | F | 30 | 15 | 22 | 6.1 | 2 |
| RS1-9493-WT119 | LEVEL1 | A | 12 | 9 | 17 | 0 | 2 |
| RS1-9493-CS130 | LEVEL1 | A | 6 | 3 | 12 | 0.091 | 2 |
| RS1-9493-WT191 | LEVEL1 | A | 16 | 12 | 24 | 0 | 2 |
| RS1-9493-AB080 | LEVEL1 | A | 21 | 18 | 30 | 0.069 | 2 |
| RS1-9493-AR046 | LEVEL1 | A | 24 | 16 | 30 | 0 | 2 |
| RS1-9493-WS632 | LEVEL1 | A | 30 | 22 | 36 | 0.078 | 2 |
| RS1-9493-CT730 | LEVEL1 | A | 18 | 14 | 30 | 0 | 2 |
| RS1-9493-CS142 | LEVEL1 | A | 18 | 14 | 30 | 0 | 2 |
| RS1-9493-CT675 | LEVEL1 | A | 18 | 13 | 30 | 0.28 | 2 |
| RS1-9493-CT674 | LEVEL1 | A | 24 | 11 | 30 | 0.25 | 2 |
| RS1-9493-CL012 | LEVEL1 | A | 24 | 16 | 36 | 0 | 2 |
| RS1-9493-CS124 | LEVEL1 | A | 24 | 16 | 36 | 0 | 2 |
| RS1-9493-IN118 | LEVEL1 | A | 12 | 9 | 30 | 0 | 2 |
| RS1-9493-WS652 | LEVEL1 | A | 24 | 9 | 30 | 0 | 2 |
| RS1-9493-CL014 | LEVEL1 | A | 24 | 15 | 36 | 0.52 | 2 |
| RS1-9493-CL011 | LEVEL1 | A | 24 | 15 | 36 | 0.215 | 2 |
| RS1-9493-AB087 | LEVEL1 | A | 24 | 14 | 36 | 0 | 2 |
| RS1-9493-AR108 | LEVEL1 | A | 12 | 7 | 30 | 0 | 2 |
| RS1-9493-WS106 | LEVEL1 | A | 24 | 18 | 41 | 0 | 2 |
| RS1-9493-CS653 | LEVEL1 | A | 12 | 6 | 30 | 0 | 2 |
| RS1-9493-CT731 | LEVEL1 | A | 16 | 12 | 36 | 0.08 | 2 |
| RS1-9493-CT672 | LEVEL1 | A | 12 | 5 | 30 | 0.033 | 2 |
| RS1-9493-CT182 | LEVEL1 | A | 24 | 16 | 42 | 0 | 2 |
| RS1-9493-CT732 | LEVEL1 | A | 8 | 1 | 36 | 0 | 2 |
| RS1-9493-PR003 | LEVEL1 | A | 12 | 9 | 52 | 0 | 2 |
| RS1-9392-WT112 | LEVEL1 | A | 24 | 23 | 39 | 0 | 3 |
| RS1-9392-WT072 | LEVEL1 | A | 24 | 22 | 47 | 0.22 | 3 |
| RS1-9392-CL010 | LEVEL1 | A | 36 | 35 | 62 | 0 | 3 |
| RS1-9493-WT189 | LEVEL2 | A | 49 | 48 | 23 | 194 | 4 |
| RS1-9493-WT729 | LEVEL2 | D | 51 | 48 | 24 | 193 | 4 |
| RS1-9493-WT169 | LEVEL2 | D | 52 | 48 | 24 | 399 | 4 |
| RS1-9493-WT249 | LEVEL2 | A | 44 | 42 | 20 | 231.6 | 4 |
| RS1-9493-WT196 | LEVEL2 | A | 44 | 42 | 20 | 170 | 4 |


| Core ID | Confidence Flag | Subgroup | Measured DoC (in.) | DoC from Interpolation (in.) | Depth of Last <br> Measured Segment (in.) | Total PCB <br> Concentration <br> in Last <br> Measured <br> Segment <br> (mg/kg) | Reason |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RS1-9392-CT634 | LEVEL2 | A | 56 | 54 | 32 | 108 | 4 |
| RS1-9493-WT164 | LEVEL2 | A | 62 | 54 | 32 | 340 | 4 |
| RS1-9493-WT178 | LEVEL2 | A | 50 | 48 | 28 | 83.5 | 4 |
| RS1-9392-CT630 | LEVEL2 | A | 58 | 54 | 34 | 100 | 4 |
| RS1-9392-WT017 | LEVEL2 | A | 38 | 36 | 17 | 151 | 4 |
| RS1-9493-WT154 | LEVEL2 | D | 38 | 36 | 17 | 505 | 4 |
| RS1-9392-AB039 | LEVEL2 | D | 38 | 36 | 18 | 1020 | 4 |
| RS1-9392-CT060 | LEVEL2 | A | 42 | 41 | 23 | 51 | 4 |
| RS1-9493-AB097 | LEVEL2 | A | 51 | 48 | 30 | 58 | 4 |
| RS1-9493-WT162 | LEVEL2 | A | 43 | 42 | 25 | 59 | 4 |
| RS1-9392-WT189 | LEVEL2 | A | 42 | 40 | 26 | 22 | 4 |
| RS1-9392-IN045 | LEVEL2 | D | 54 | 36 | 23 | 119 | 4 |
| RS1-9392-CT631 | LEVEL2 | A | 45 | 37 | 24 | 61 | 4 |
| RS1-9392-CL007 | LEVEL2 | A | 44 | 36 | 24 | 78 | 4 |
| RS1-9392-ET062 | LEVEL2 | A | 39 | 36 | 24 | 26.9 | 4 |
| RS1-9493-WS658 | LEVEL2 | A | 37 | 36 | 25 | 11.3 | 4 |
| RS1-9493-WS141 | LEVEL2 | D | 39 | 28 | 18 | 237 | 4 |
| RS1-9392-WT152 | LEVEL2 | A | 38 | 36 | 26 | 12.042 | 4 |
| RS1-9493-WT720 | LEVEL2 | F | 49 | 48 | 38 | 9.5 | 4 |
| RS1-9493-WT159 | LEVEL2 | D | 82 | 49 | 39 | 31.5 | 4 |
| RS1-9493-WT727 | LEVEL2 | D | 96 | 33 | 24 | 45 | 4 |
| RS1-9493-WT152 | LEVEL2 | A | 38 | 36 | 27 | 10.6 | 4 |
| RS1-9392-AB153 | LEVEL2 | A | 18 | 17 | 9 | 31 | 4 |
| RS1-9392-WT004 | LEVEL2 | A | 32 | 30 | 22 | 9.8 | 4 |
| RS1-9493-WT150 | LEVEL2 | A | 49 | 48 | 40 | 7.8 | 4 |
| RS1-9392-WT174 | LEVEL2 | A | 65 | 54 | 46 | 46.9 | 4 |
| RS1-9493-AR122 | LEVEL2 | F | 26 | 24 | 18 | 5.5 | 5 |
| RS1-9392-CT134 | LEVEL2 | A | 33 | 30 | 26 | 4.8 | 5 |
| RS1-9493-WT146 | LEVEL2 | A | 38 | 36 | 32 | 3.5 | 5 |
| RS1-9493-WT243 | LEVEL2 | A | 17 | 12 | 10 | 5.6 | 5 |
| RS1-9392-WT003 | LEVEL2 | A | 27 | 24 | 22 | 2.8 | 5 |
| RS1-9493-WS714 | LEVEL2 | A | 32 | 30 | 28 | 2.7 | 5 |
| RS1-9493-CS637 | LEVEL2 | A | 33 | 30 | 28 | 3.2 | 5 |
| RS1-9493-AR071 | LEVEL2 | A | 49 | 48 | 46 | 1.98 | 5 |
| RS1-9493-IN109 | LEVEL2 | F | 63 | 54 | 53 | 7.2 | 5 |
| RS1-9493-WS111 | LEVEL2 | F | 29 | 24 | 24 | 4.6 | 5 |
| RS1-9493-WT723 | LEVEL2 | F | 38 | 36 | 36 | 2.42 | 5 |
| RS1-9392-WT049 | LEVEL2 | A | 13 | 12 | 13 | 1.59 | 6 |
| RS1-9392-WT050 | LEVEL2 | A | 18 | 12 | 14 | 2.46 | 6 |
| RS1-9493-WT188 | LEVEL2 | A | 22 | 12 | 14 | 5.8 | 6 |
| RS1-9392-WT071 | LEVEL2 | F | 38 | 24 | 35 | 2.92 | 6 |
| RS1-9493-WS651 | LEVEL2 | A | 56 | 48 | 54 | 1.6 | 6 |
| RS1-9392-CL005 | LEVEL1 | A | 30 | 26 | 36 | 0.436 | 6 |


| Core ID | Confidence Flag | Subgroup | Measured DoC (in.) | DoC from Interpolation (in.) | Depth of Last <br> Measured Segment (in.) | Total PCB <br> Concentration <br> in Last <br> Measured <br> Segment <br> (mg/kg) | Reason |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RS1-9493-IN072 | LEVEL1 | A | 45 | 42 | 47 | 0.14 | 6 |
| RS1-9392-WT198 | LEVEL1 | A | 18 | 13 | 24 | 0 | 6 |
| RS1-9392-CL004 | LEVEL1 | A | 30 | 24 | 36 | 0 | 6 |
| RS1-9493-WT211 | LEVEL1 | A | 66 | 54 | 68 | 0 | 6 |
| RS1-9392-WT192 | LEVEL1 | A | 42 | 30 | 48 | 0 | 6 |
| RS1-9493-WT219 | LEVEL1 | A | 60 | 54 | 73 | 0 | 6 |
| RS1-9392-ET054 | LEVEL1 | A | 18 | 12 | 32 | 0 | 6 |
| RS1-9392-CT619 | LEVEL1 | A | 18 | 12 | 33 | 0 | 6 |
| RS1-9493-AR065 | LEVEL1 | A | 18 | 12 | 34 | 0 | 6 |
| RS1-9493-WT184 | LEVEL2 | R | 24 | 12 | 15 | 5.45 | 6 |
| RS1-9190-WT274 | LEVEL1 | A | 18 | 16 | 24 | 0.024 | 2 |
| RS1-9190-ET407 | LEVEL1 | A | 13 | 12 | 30 | 0.237 | 2 |
| RS1-9089-ET029 | LEVEL2 | F | 40 | 21 | 26 | 14.9 | 2 |
| RS1-9089-ET013 | LEVEL1 | A | 33 | 29 | 36 | 0.38 | 2 |
| RS1-9190-CS716 | LEVEL1 | A | 30 | 27 | 36 | 0.415 | 2 |
| RS1-9089-ET047 | LEVEL1 | A | 24 | 21 | 36 | 0.22 | 2 |
| RS1-9190-CS401 | LEVEL1 | A | 24 | 19 | 36 | 0 | 2 |
| RS1-9190-CS282 | LEVEL1 | A | 24 | 18 | 36 | 0 | 2 |
| RS1-9190-PR012 | LEVEL1 | A | 12 | 5 | 24 | 0 | 2 |
| RS1-9190-ET427 | LEVEL1 | A | 24 | 16 | 36 | 0.041 | 2 |
| RS1-9190-AR065 | LEVEL1 | A | 12 | 8 | 30 | 0 | 2 |
| RS1-9089-ET009 | LEVEL1 | A | 24 | 12 | 36 | 0 | 2 |
| RS1-9190-ET350 | LEVEL1 | A | 30 | 29 | 36 | 0 | 3 |
| RS1-9190-TT268 | LEVEL1 | A | 18 | 16 | 24 | 0.82 | 3 |
| RS1-9190-ET426 | LEVEL1 | A | 24 | 22 | 36 | 0 | 3 |
| RS1-9190-ET405 | LEVEL1 | A | 30 | 28 | 60 | 0 | 3 |
| RS1-9089-ET035 | LEVEL2 | B | 26 | 24 | 13 | 670 | 4 |
| RS1-9190-ET286 | LEVEL1 | A | 36 | 32 | 40 | 0.52 | 6 |
| RS1-9190-CL047 | LEVEL1 | A | 36 | 30 | 64 | 0.3 | 6 |
| RS1-9190-WS706 | LEVEL1 | A | 36 | 30 | 50 | 0.12 | 6 |
| RS1-9190-TT258 | LEVEL1 | A | 30 | 24 | 42 | 0.063 | 6 |
| RS1-9190-ET331 | LEVEL1 | A | 18 | 12 | 26 | 0 | 6 |
| RS1-9190-WS335 | LEVEL1 | A | 18 | 12 | 34 | 0 | 6 |
| RS1-9089-ET011 | LEVEL1 | A | 36 | 30 | 54 | 0 | 6 |
| RS1-9190-ET340 | LEVEL2 | A | 17 | 12 | 13 | 3.785 | 6 |
| RS1-9190-ET270 | LEVEL2 | A | 27 | 24 | 26 | 1.44 | 6 |
| RS1-9089-ET002 | LEVEL1 | A | 24 | 12 | 36 | 0 | 6 |
| RS1-9190-CL032 | LEVEL1 | A | 24 | 12 | 36 | 0 | 6 |
| RS1-9190-CS444 | LEVEL1 | A | 24 | 12 | 36 | 0.032 | 6 |
| RS1-9190-ET402 | LEVEL1 | A | 24 | 12 | 36 | 0 | 6 |
| RS1-9190-ET413 | LEVEL1 | A | 24 | 12 | 36 | 0.0285 | 6 |
| RS1-9190-WS707 | LEVEL1 | A | 24 | 12 | 36 | 0 | 6 |
| RS1-9190-ET320 | LEVEL1 | A | 24 | 12 | 52 | 0 | 6 |


| Core ID | Confidence <br> Flag | Sub- <br> group | Measured <br> DoC (in.) | DoC from <br> Interpolation <br> (in.) | Depth of <br> Last | Total PCB <br> Concentration <br> in Last <br> Seasured <br> Measured <br> (in.) | Segment <br> (mg/kg) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Reasons for Not Adjusting DoC Surface:

1. The core is located outside dredge area.
2. The core is located in a "dredge to Glacial Lake Albany Clay" area.
3. The core is complete and has a measured DoC that is within 2 inches of the DoC surface.
4. The core is incomplete and the bottom of its last measured section is shallower than the DoC surface by greater than 6 inches.
5. The core is incomplete and the bottom of its last measured section is shallower than the DoC surface by less than or equal to 6 inches and it has a total PCB concentration of less than 25 ppm in that section.
6. All total PCB concentrations in the core that are below DoC surface are less than or equal to $10 \mathrm{mg} / \mathrm{kg}$.
7. The core's DoC was affected by reporting limit issues (i.e., CL2E core) and the DoC surface captures all the measured core concentrations above $1 \mathrm{mg} / \mathrm{kg}$.

## Acronyms:

DoC = depth of contamination
in. $=$ inches
PCB = polychlorinated biphenyl
$\mathrm{mg} / \mathrm{kg}=$ milligram per kilogram
ppm = parts per million

Table E-3. Confidence Level 1 Cores with DoC Shallower than the DoC Surface and Meeting the Criteria for Upward Adjustment of the Surface.

| Core ID | $\begin{gathered} \text { Measured } \\ \text { DoC } \\ \text { (in.) } \\ \hline \end{gathered}$ | DoC from Interpolation (in.) |
| :---: | :---: | :---: |
| RS1-9493-AR327 | 0 | 6 |
| RS1-9594-ID069 | 2 | 8 |
| RS1-9594-WT135 | 2 | 9 |
| RS1-9493-WT073 | 0 | 12 |
| RS1-9594-IN064 | 6 | 12 |
| RS1-9594-WT128 | 2 | 12 |
| RS1-9594-WT141 | 5 | 12 |
| RS1-9493-WT063 | 0 | 13 |
| RS1-9594-TT212 | 6 | 14 |
| RS1-9493-TT221 | 18 | 24 |
| RS1-9493-WT086 | 18 | 24 |
| RS1-9493-TT215 | 18 | 24 |
| RS1-9493-WT043 | 2 | 30 |
| RS1-9493-AR315 | 12 | 36 |
| RS1-9493-AR323 | 36 | 44 |
| RS1-9493-PT046 | 48 | 92 |
| RS1-9493-WS615 | 2 | 9 |
| RS1-9493-AB034 | 6 | 12 |
| RS1-9594-WS159 | 2 | 12 |
| RS1-9594-WS707 | 2 | 12 |
| RS1-9594-WS709 | 2 | 12 |
| RS1-9493-WS029 | 2 | 12 |
| RS1-9493-WS040 | 2 | 12 |
| RS1-9594-WT140 | 2 | 12 |
| RS1-9594-WT153 | 2 | 12 |
| RS1-9594-IN056 | 6 | 12 |
| RS1-9594-WS061 | 6 | 12 |
| RS1-9594-WS069 | 6 | 12 |
| RS1-9493-WS083 | 18 | 24 |
| RS1-9493-WS607 | 18 | 24 |
| RS1-9594-ID094 | 15 | 24 |
| RS1-9594-TT216 | 18 | 24 |
| RS1-9594-IN042 | 18 | 24 |
| RS1-9392-WT199 | 2 | 12 |
| RS1-9392-WT139 | 2 | 12 |
| RS1-9392-WT153 | 6 | 12 |
| RS1-9392-WT155 | 2 | 12 |
| RS1-9392-WT184 | 2 | 12 |
| RS1-9392-AB026 | 6 | 12 |
| RS1-9392-AB040 | 6 | 12 |
| RS1-9392-ET172 | 2 | 12 |
| RS1-9392-WT033 | 2 | 12 |
| RS1-9392-WT081 | 6 | 12 |


| Core ID | Measured <br> DoC <br> (in.) | DoC from Interpolation (in.) |
| :---: | :---: | :---: |
| RS1-9392-AB007 | 2 | 12 |
| RS1-9392-IN015 | 2 | 12 |
| RS1-9392-WT007 | 2 | 12 |
| RS1-9392-WT013 | 6 | 12 |
| RS1-9392-WT019 | 6 | 12 |
| RS1-9392-WT602 | 2 | 12 |
| RS1-9493-AR101 | 2 | 12 |
| RS1-9493-EP015 | 2 | 12 |
| RS1-9493-IN096 | 2 | 12 |
| RS1-9493-WT195 | 2 | 12 |
| RS1-9493-WT209 | 2 | 12 |
| RS1-9493-WT223 | 2 | 12 |
| RS1-9493-WT229 | 6 | 12 |
| RS1-9493-WT230 | 2 | 12 |
| RS1-9493-CT217 | 2 | 12 |
| RS1-9493-CS659 | 2 | 12 |
| RS1-9493-WS635 | 2 | 12 |
| RS1-9493-CL007 | 12 | 18 |
| RS1-9392-TT218 | 12 | 19 |
| RS1-9392-TT226 | 12 | 20 |
| RS1-9392-TT220 | 6 | 22 |
| RS1-9392-WT176 | 18 | 24 |
| RS1-9392-WT114 | 18 | 24 |
| RS1-9392-AB001 | 18 | 24 |
| RS1-9392-CT121 | 18 | 24 |
| RS1-9392-CT601 | 18 | 24 |
| RS1-9392-ET128 | 18 | 24 |
| RS1-9392-IN017 | 12 | 24 |
| RS1-9392-TT217 | 12 | 24 |
| RS1-9392-TT219 | 18 | 24 |
| RS1-9392-TT224 | 12 | 24 |
| RS1-9392-TT230 | 18 | 24 |
| RS1-9392-TT231 | 18 | 24 |
| RS1-9392-TT233 | 12 | 24 |
| RS1-9392-TT237 | 12 | 24 |
| RS1-9392-WT023 | 18 | 24 |
| RS1-9392-WT032 | 18 | 24 |
| RS1-9392-WT034 | 18 | 24 |
| RS1-9392-WT039 | 18 | 24 |
| RS1-9392-WT048 | 18 | 24 |
| RS1-9392-WT055 | 18 | 24 |
| RS1-9392-WT095 | 18 | 24 |
| RS1-9392-WT110 | 18 | 24 |
| RS1-9392-WT138 | 18 | 24 |
| RS1-9392-WT160 | 18 | 24 |


| Core ID | Measured <br> DoC <br> (in.) | DoC from <br> Interpolation <br> (in.) |
| :--- | :---: | :---: |
| RS1-9493-WT242 | 18 | 24 |
| RS1-9493-TT224 | 18 | 24 |
| RS1-9493-CS631 | 18 | 24 |
| RS1-9392-WT087 | 24 | 30 |
| RS1-9190-ET449 | 2 | 12 |
| RS1-9089-ET053 | 2 | 12 |
| RS1-9190-AR073 | 2 | 12 |
| RS1-9190-CS336 | 6 | 12 |
| RS1-9190-ET257 | 2 | 12 |
| RS1-9190-ET312 | 2 | 12 |
| RS1-9190-ET330 | 2 | 12 |
| RS1-9089-ET017 | 2 | 18 |
| RS1-9190-ET342 | 12 | 20 |
| RS1-9089-ET006 | 2 | 24 |

## FIGURES



Figure E-1. Analysis of the Neighboring DoC for the 68 Cores that Penetrate the DoC Surface and Met the Criteria for the Adjustment of the Surface
Note: Buffer not used on Confidence Level 1 cores.

| $\ldots \cdots$ | DoC Determined from Data or Extrapolation |
| :--- | :--- |
| -- | DoC Established from Interpolation |
| $-\cdots-$ | Adjusted DOC |



Figure E-1. Analysis of the Neighboring DoC for the 68 Cores that Penetrate the DoC Surface and Met the Criteria for the Adjustment of the Surface
Note: Buffer not used on Confidence Level 1 cores.

| $\ldots \cdots$ | DoC Determined from Data or Extrapolation |
| :--- | :--- |
| -- | DoC Established from Interpolation |
| $-\cdots-$ | Adjusted DOC |



Figure E-1. Analysis of the Neighboring DoC for the 68 Cores that Penetrate the DoC Surface and Met the Criteria for the Adjustment of the Surface
Note: Buffer not used on Confidence Level 1 cores.

| $\ldots \cdots$ | DoC Determined from Data or Extrapolation |
| :--- | :--- |
| -- | DoC Established from Interpolation |
| $-\cdots-$ | Adjusted DOC |



Figure E-1. Analysis of the Neighboring DoC for the 68 Cores that Penetrate the DoC Surface and Met the Criteria for the Adjustment of the Surface
Note: Buffer not used on Confidence Level 1 cores.

| $\ldots \cdots$ | DoC Determined from Data or Extrapolation |
| :--- | :--- |
| $-\cdots$ | DoC Established from Interpolation |
| $-\cdot-$ | Adjusted DOC |



Figure E-1. Analysis of the Neighboring DoC for the 68 Cores that Penetrate the DoC Surface and Met the Criteria for the Adjustment of the Surface
Note: Buffer not used on Confidence Level 1 cores.

| $\ldots \cdots$ | DoC Determined from Data or Extrapolation |
| :--- | :--- |
| -- | DoC Established from Interpolation |
| $-\cdots-$ | Adjusted DOC |



Figure E-1. Analysis of the Neighboring DoC for the 68 Cores that Penetrate the DoC Surface and Met the Criteria for the Adjustment of the Surface
Note: Buffer not used on Confidence Level 1 cores.

| $\cdots \cdots$ | DoC Determined from Data or Extrapolation |
| :--- | :--- |
| -- | DoC Established from Interpolation |
| $-\cdots-$ | Adjusted DOC |



Figure E-1. Analysis of the Neighboring DoC for the 68 Cores that Penetrate the DoC Surface and Met the Criteria for the Adjustment of the Surface
Note: Buffer not used on Confidence Level 1 cores.

| $\ldots \cdots$ | DoC Determined from Data or Extrapolation |
| :--- | :--- |
| -- | DoC Established from Interpolation |
| $-\cdots-$ | Adjusted DOC |







Figure E-1. Analysis of the Neighboring DoC for the 68 Cores that Penetrate the DoC Surface and Met the Criteria for the Adjustment of the Surface
Note: Buffer not used on Confidence Level 1 cores.

| $\ldots \cdots$ | DoC Determined from Data or Extrapolation |
| :--- | :--- |
| -- | DoC Established from Interpolation |
| $-\cdots-$ | Adjusted DOC |

