

Cross-sectional Tool

Getting cross-section data from ArcGIS to Excel

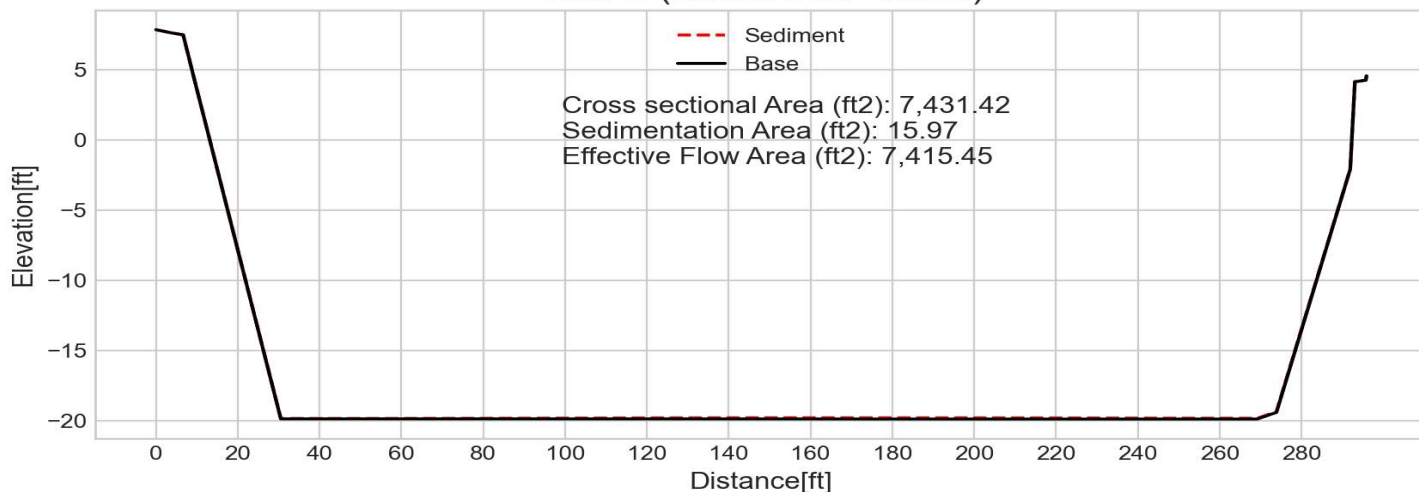
Utilizing a Python script specifically developed for this task, cross-sectional data for each year of sedimentation was precisely captured from ArcGIS. This script adeptly processes profile lines extracted from a shapefile, incorporating two essential fields into its attribute table: the cross-section number for organizational sorting and the station number for clear identification. Following the establishment of these fields, the script employs three tools to refine and export the data: 'Stack Profile', 'Add Join', and 'Table to Excel'.

The 'Stack Profile' tool is instrumental in generating a comprehensive table that catalogs distance and elevation values for each profile line. Subsequently, the 'Add Join' tool seamlessly integrates the cross-section and station information from the profile line's attribute table with the 'Stack Profile' tool's output, ensuring a unified data table. The process culminates with the 'Table to Excel' tool, which efficiently exports the consolidated table into an Excel file for enhanced accessibility and analysis.

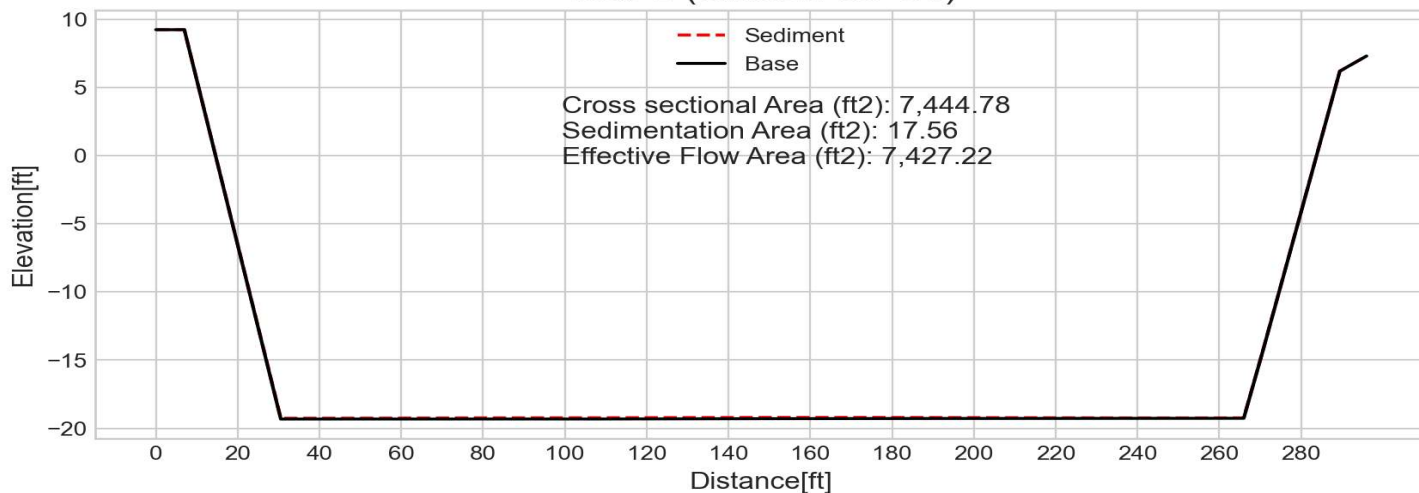
Calculating the area and volume of each cross-section and creating the graphs

A second Python script was developed to compute the area and volume of the cross-sections. This script organizes the cross-sections data by sorting it from the lowest station to the highest, thereby addressing the issue of out-of-sequence stations. Employing the 'Area Under a Curve' methodology, it segments the entire area beneath the curve into discrete rectangles. The script inverts every cross-section along the x-axis by inverting the elevation values, followed by an adjustment that elevates each cross-section above the x-axis. This adjustment involves adding the absolute value of the minimum elevation to all other elevations. Subsequently, it constructs rectangles by determining the base from the difference between points A and B and the height from their average elevation, thus enabling the aggregation of all rectangular areas to represent the total area of the cross-section. For volume calculation, it averages the areas of two successive cross-sections and multiplies this by the distance between them. The script leverages 'matplotlib', a Python library, to generate detailed graphical representations of each cross-section, plotting them with x-axis and y-axis values to visually delineate distance and elevation respectively.

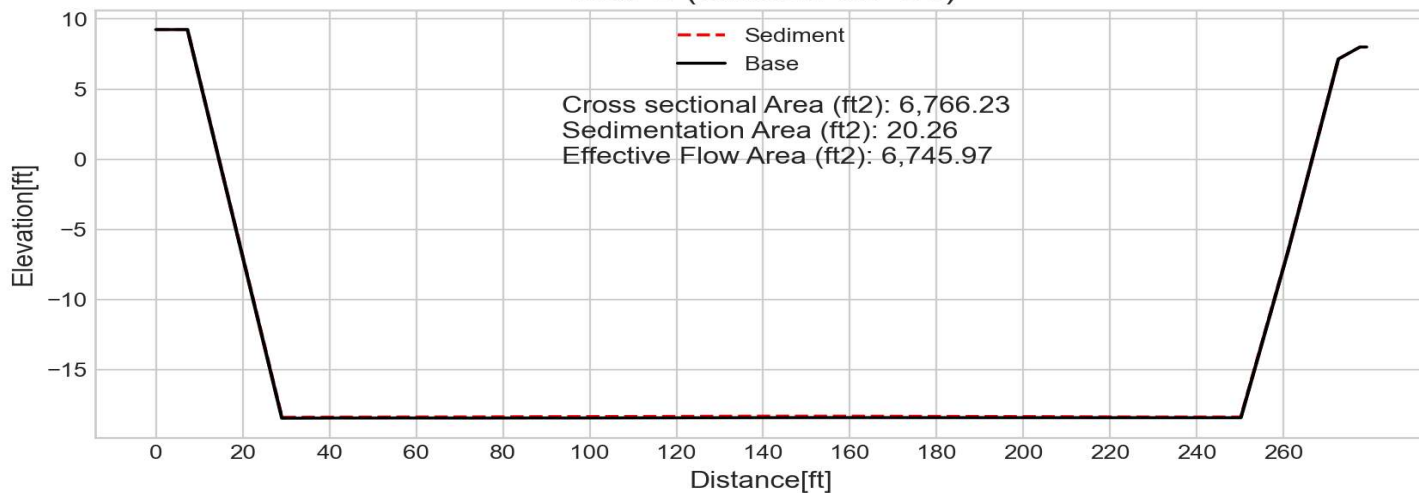
Year 2 (Station: 88+33.21)



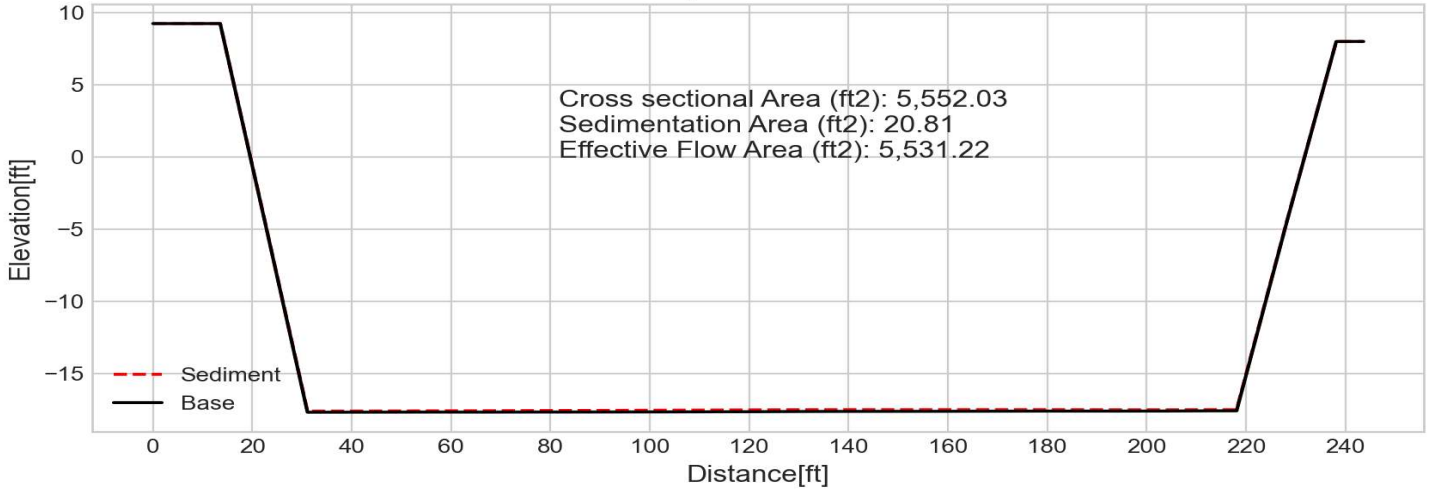
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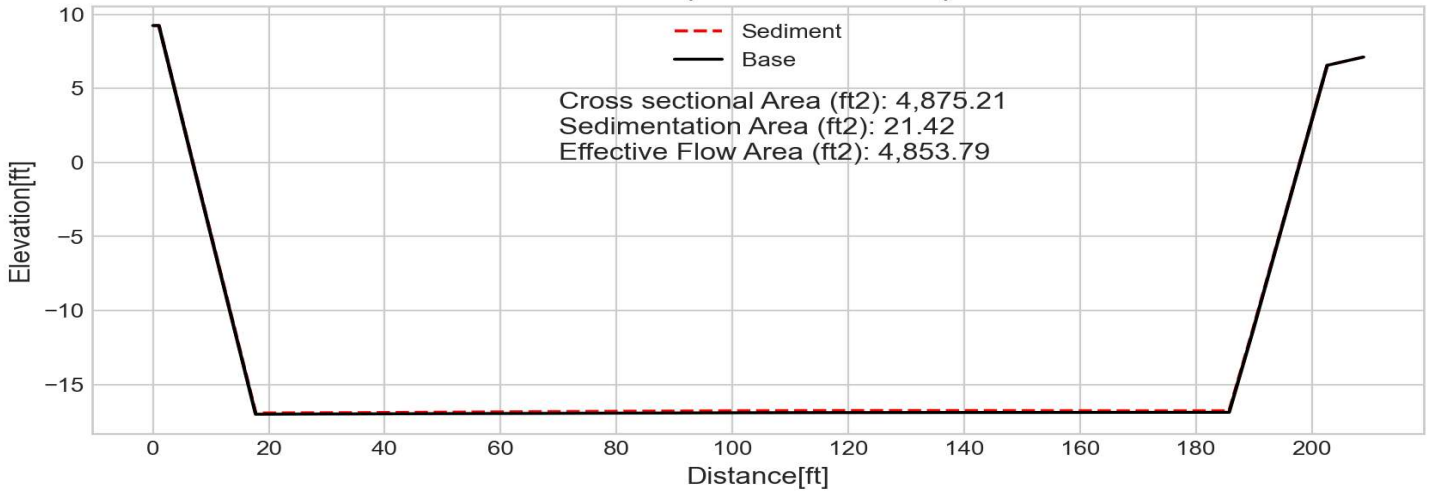
Year 2 (Station: 90+00)



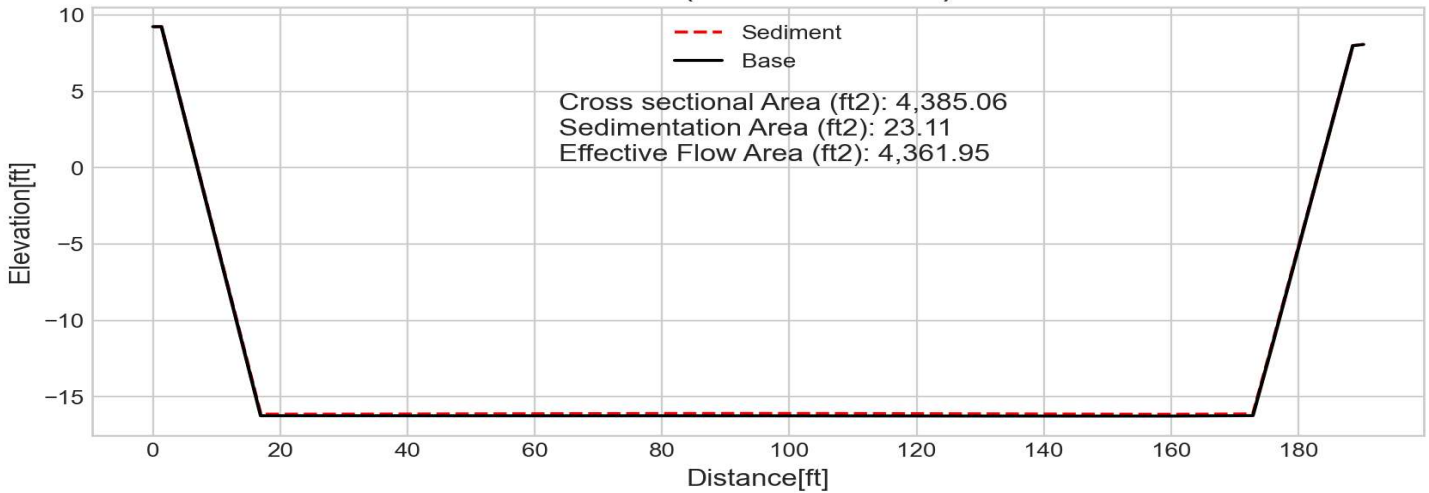
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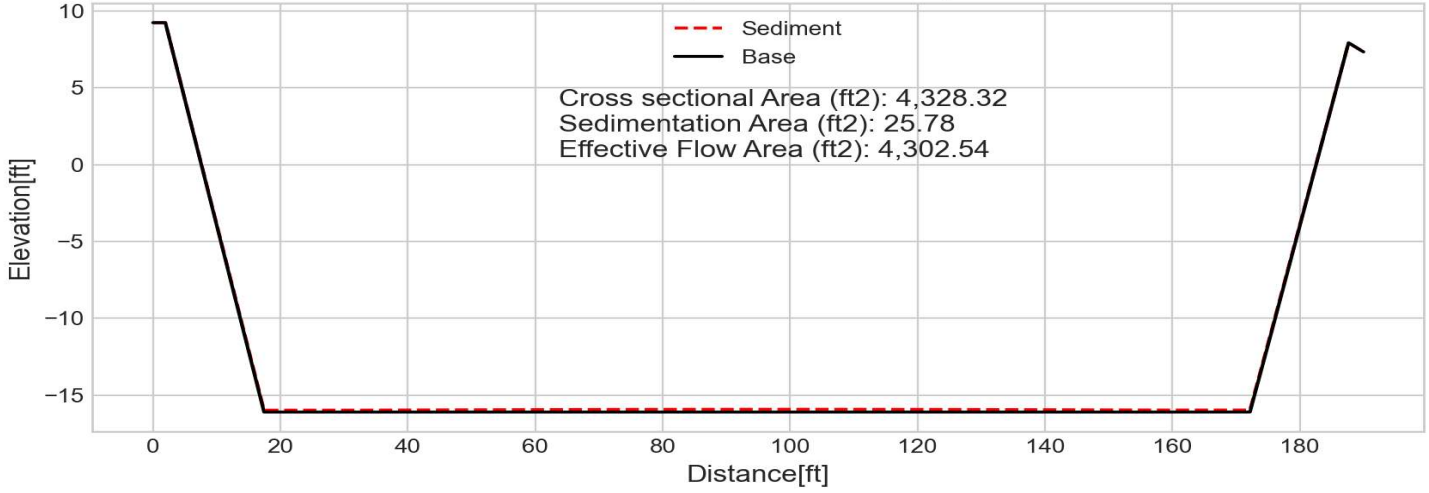
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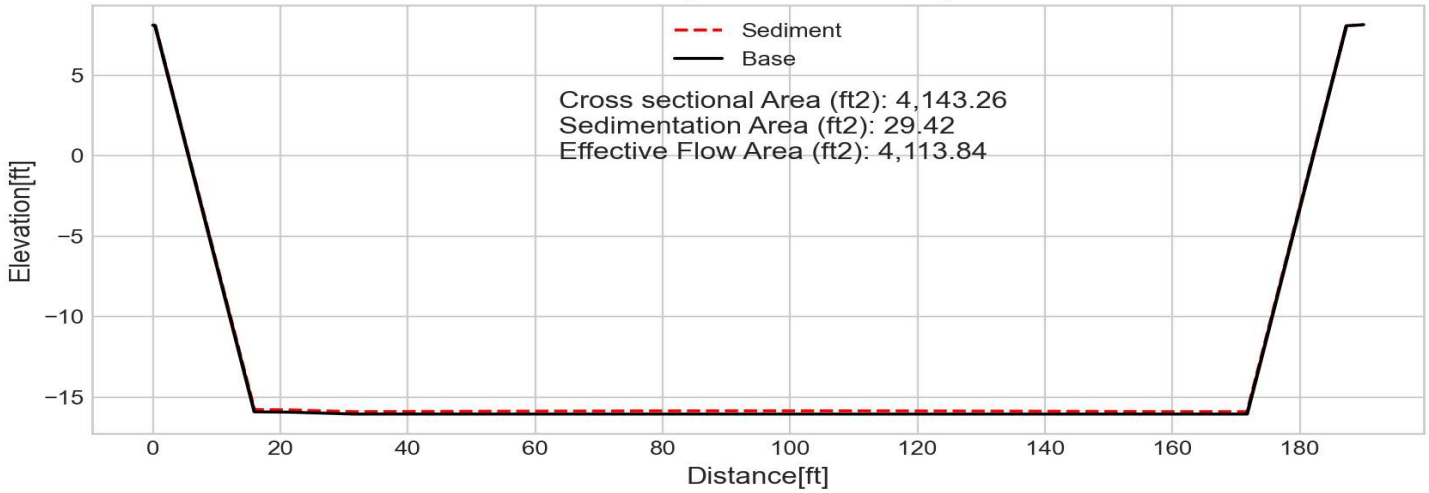
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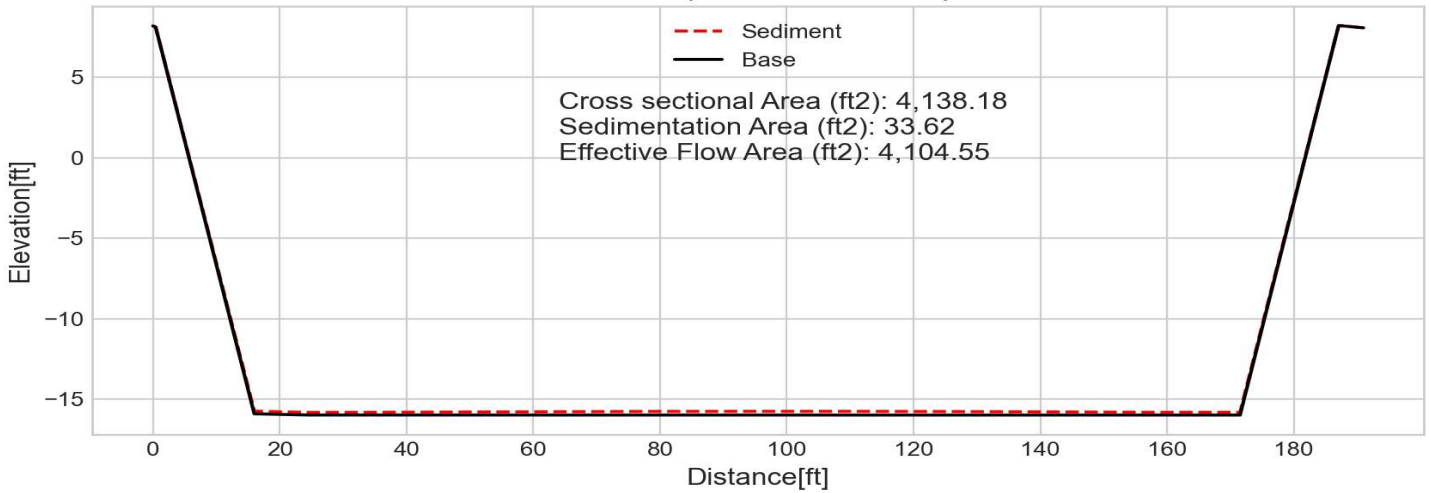
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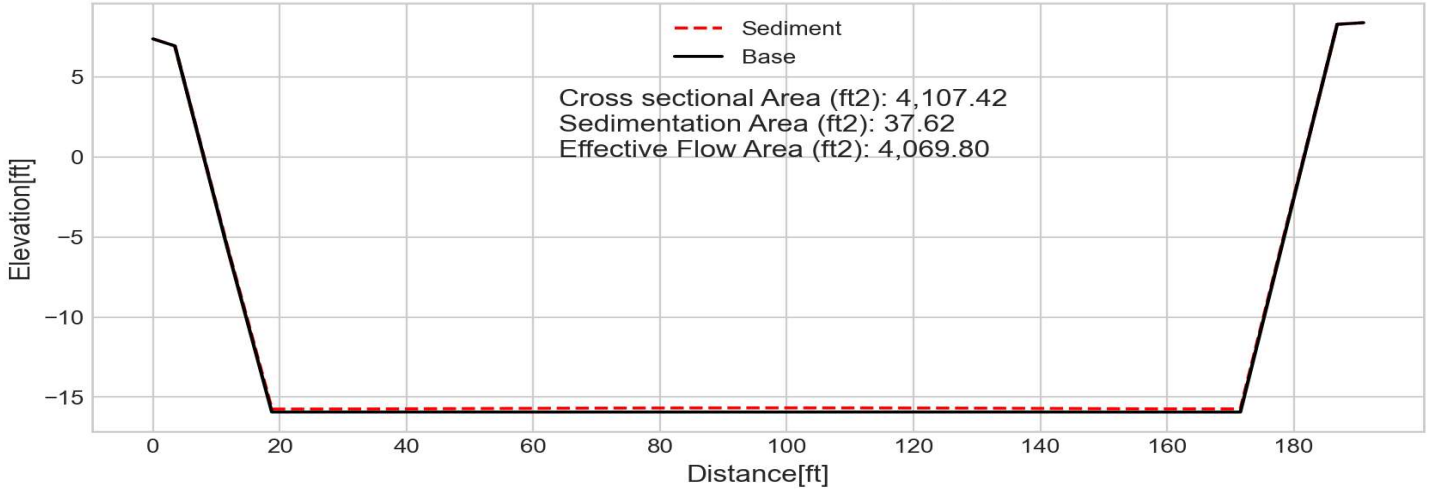
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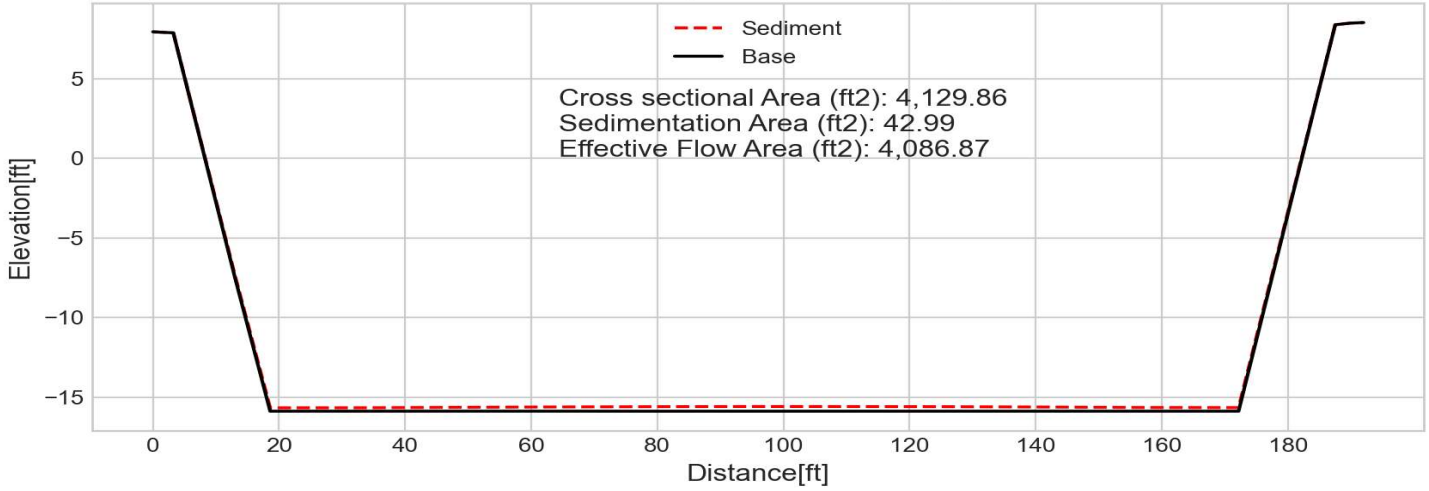
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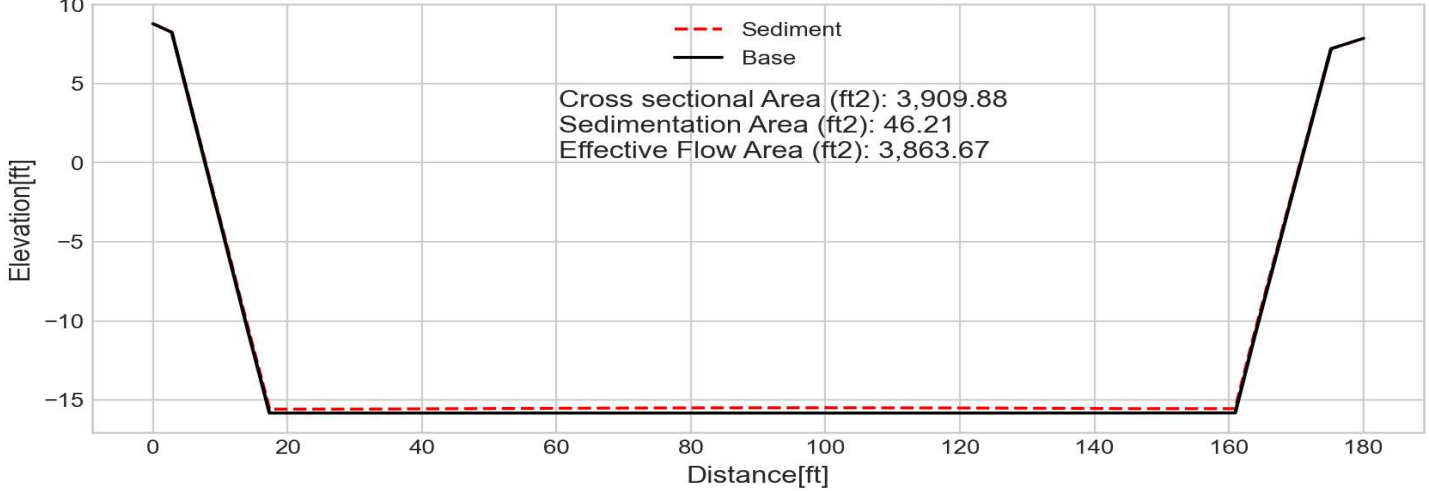
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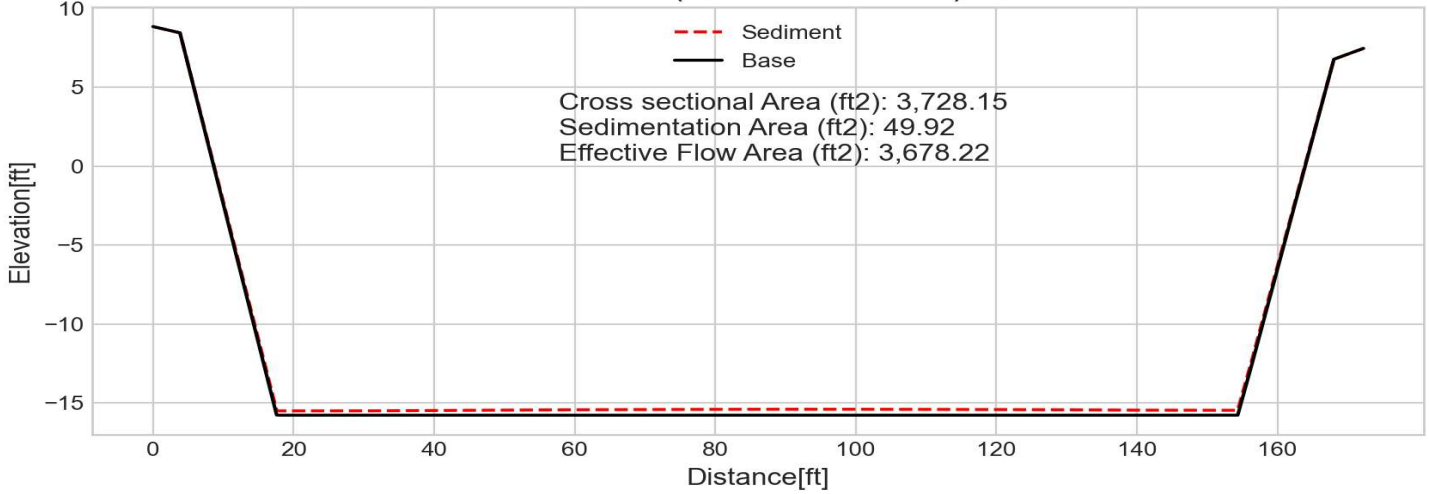
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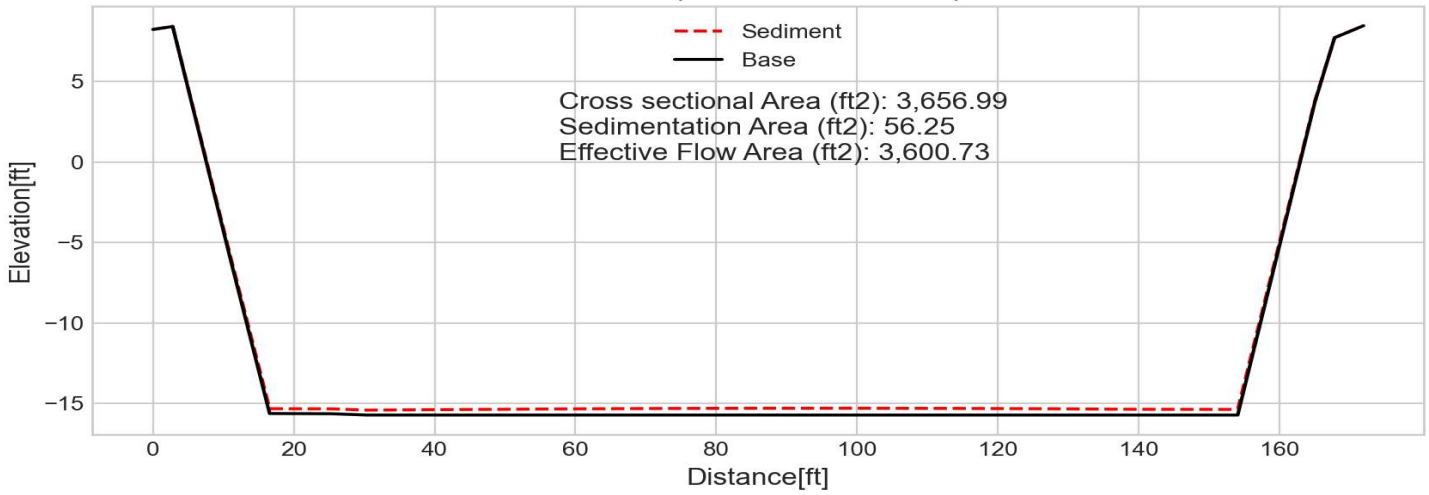
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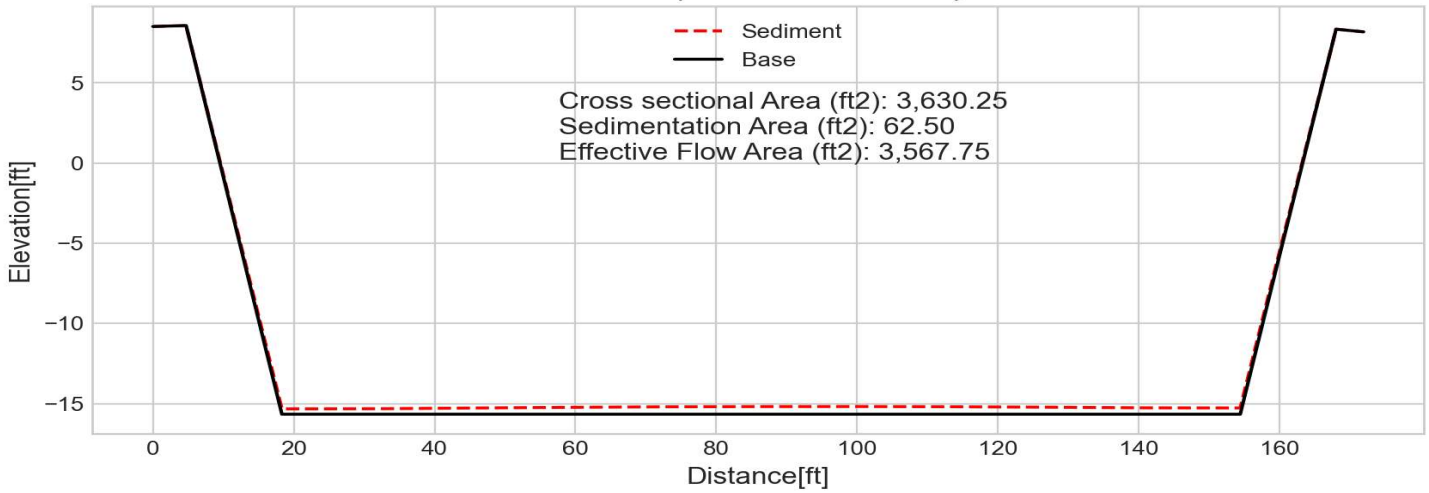
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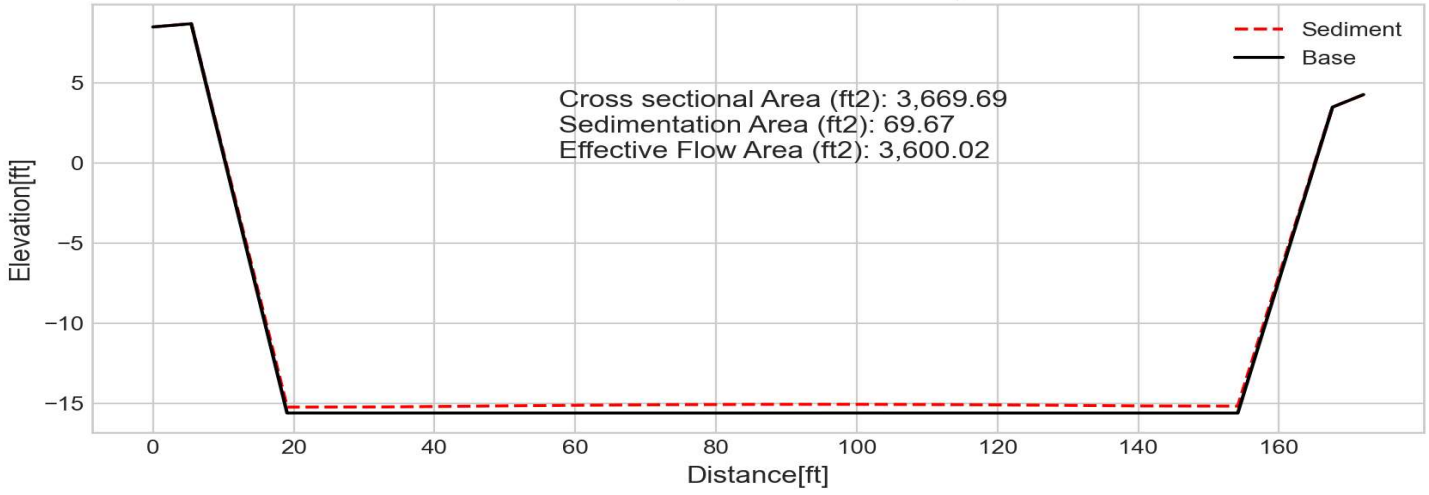
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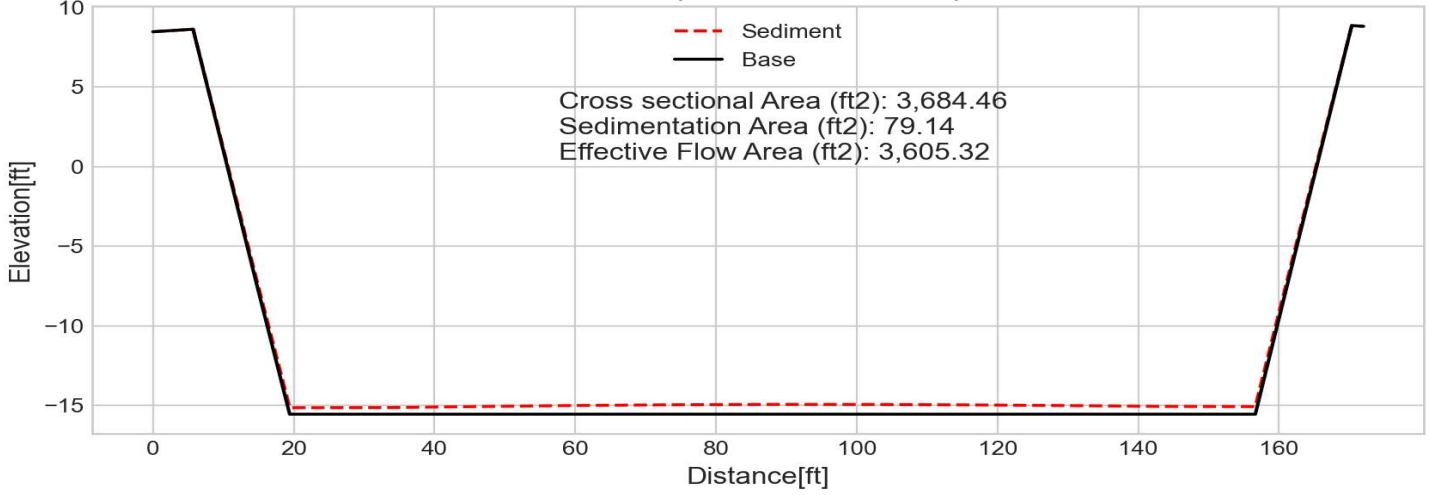
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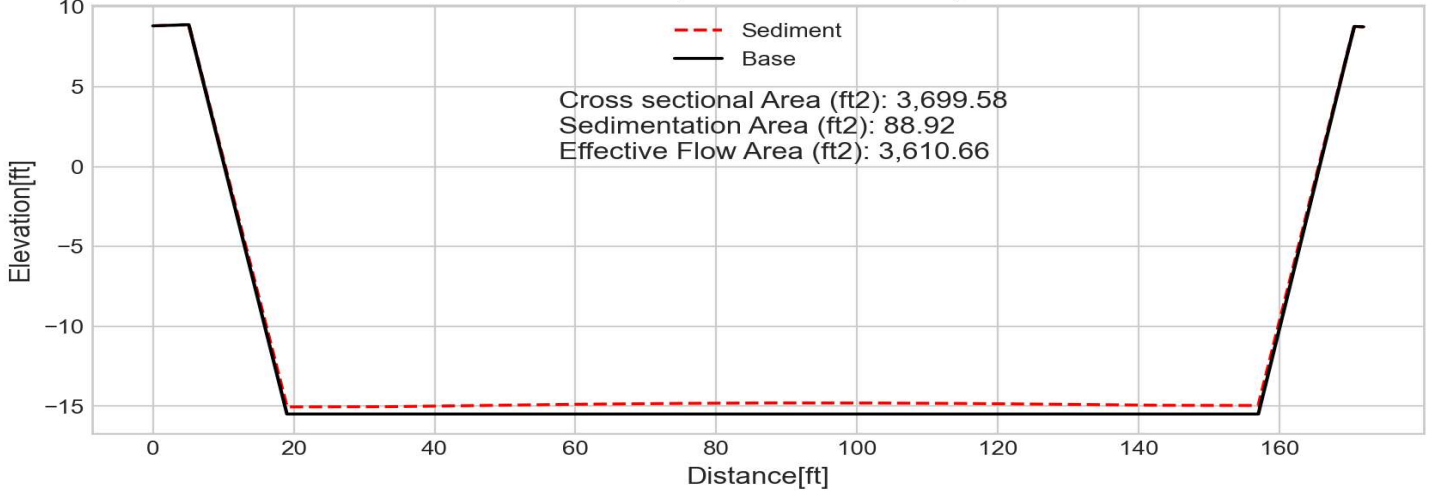
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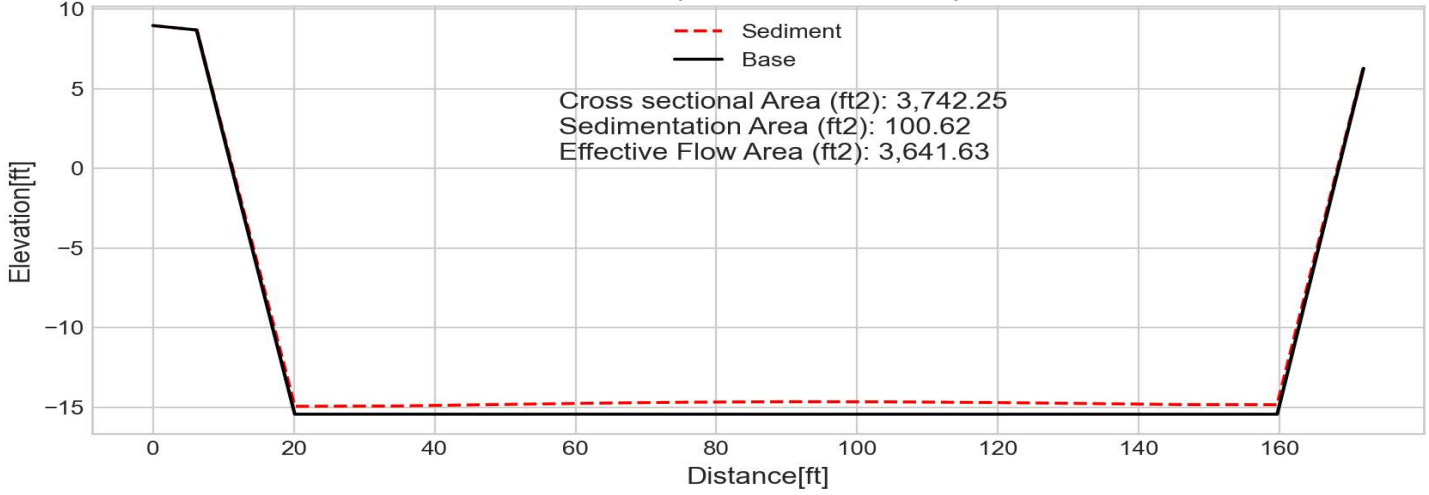
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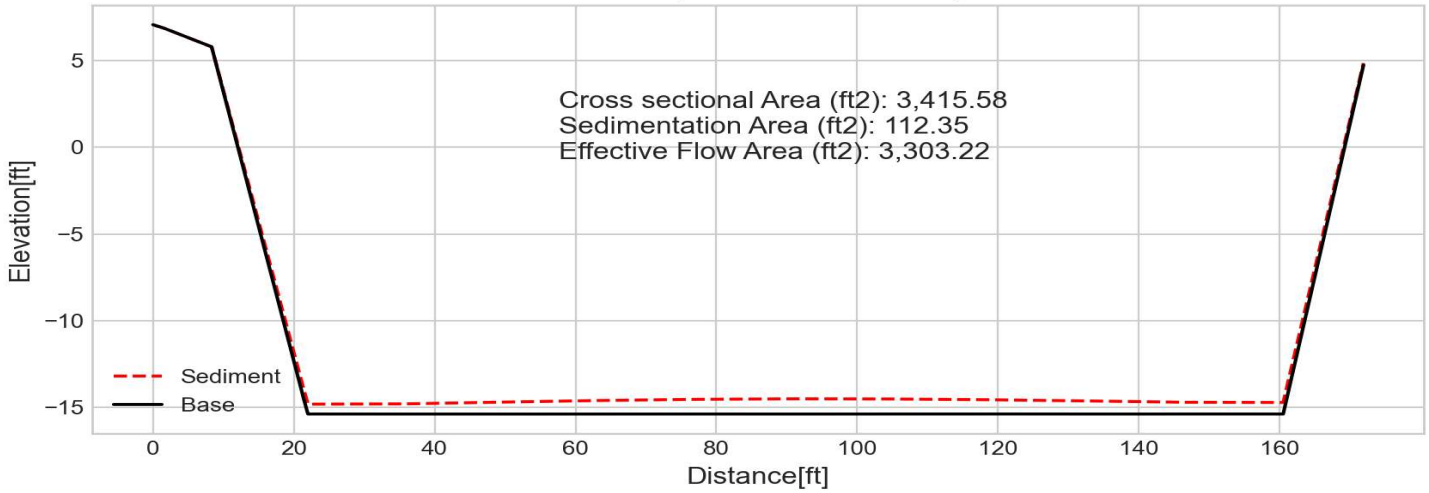
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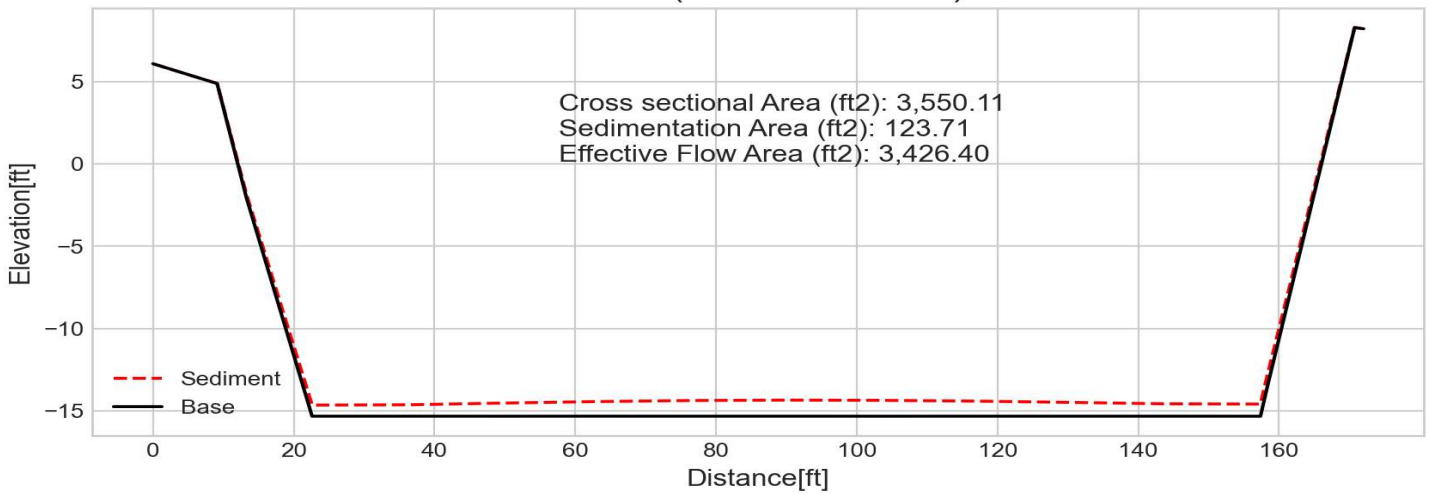
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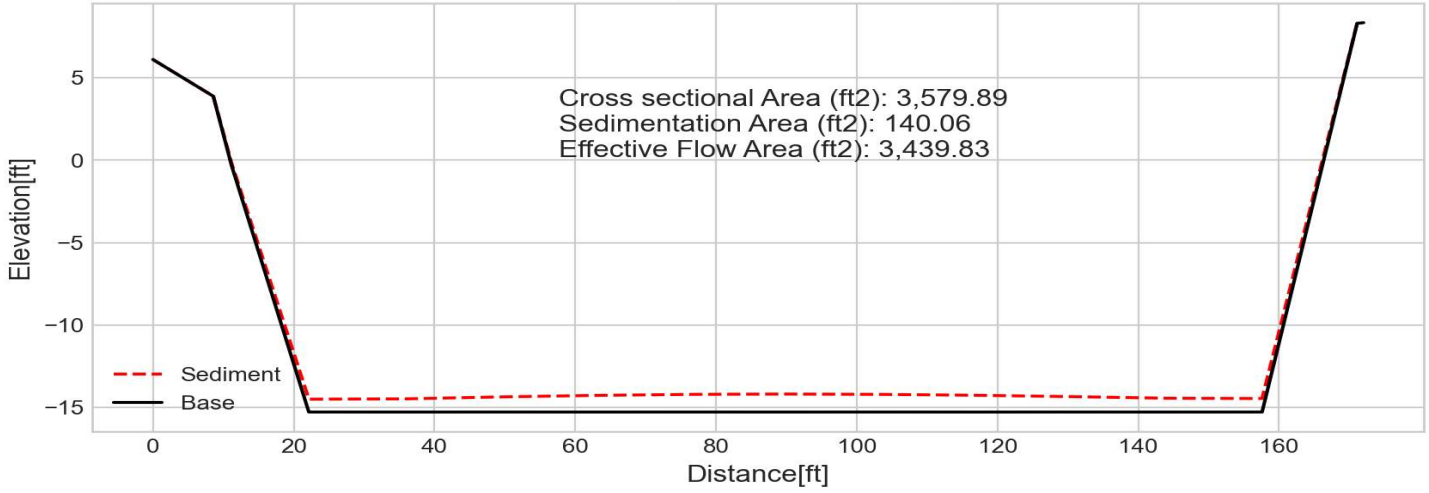
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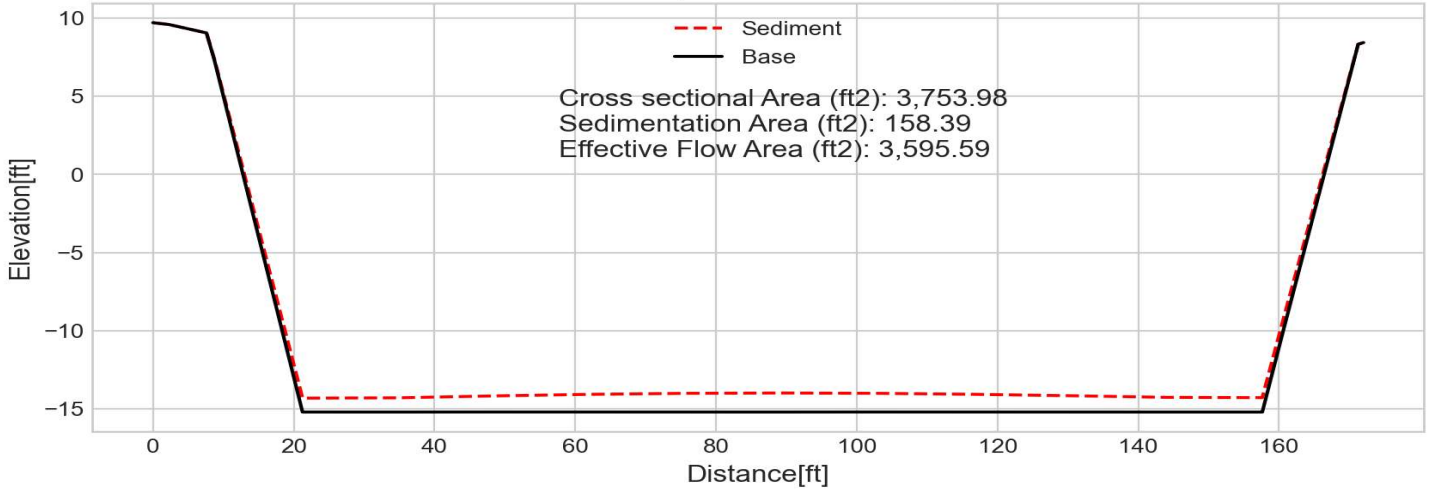
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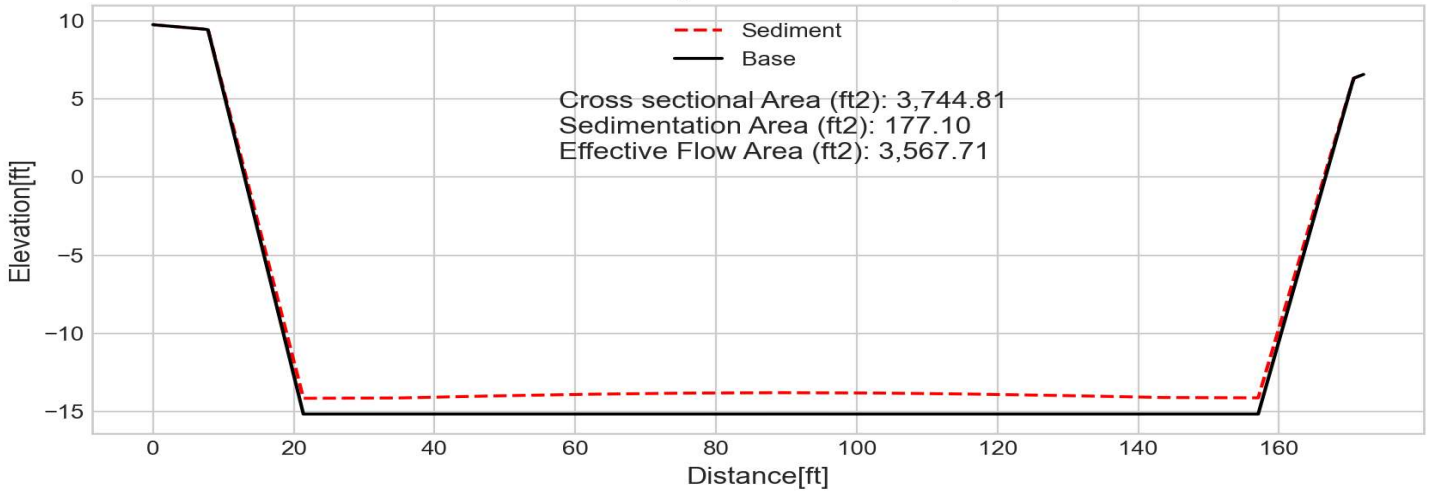
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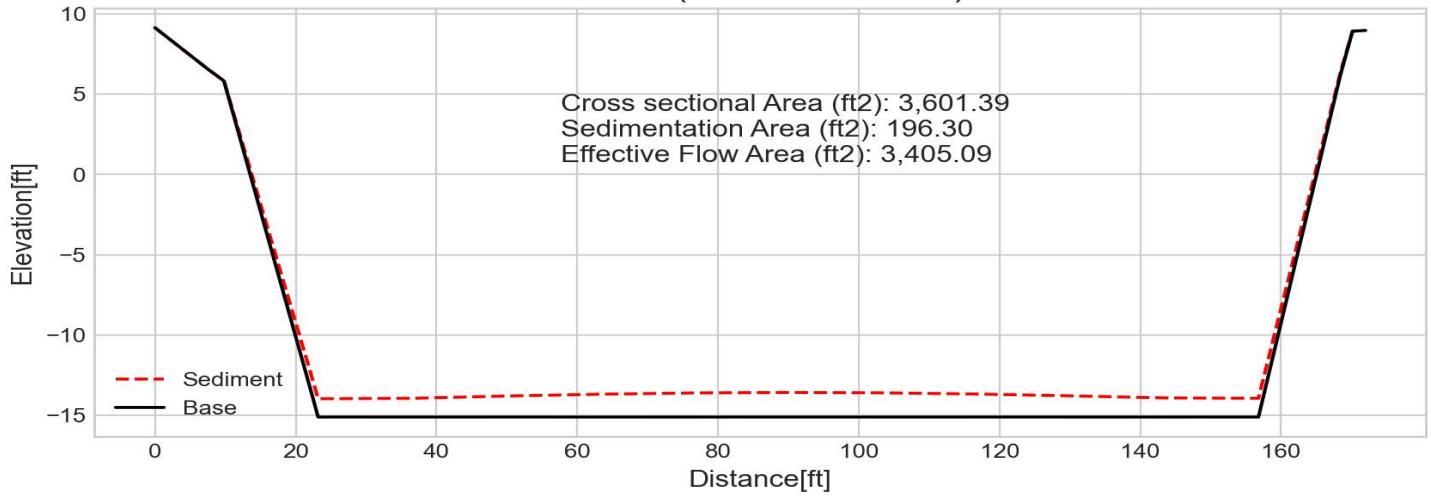
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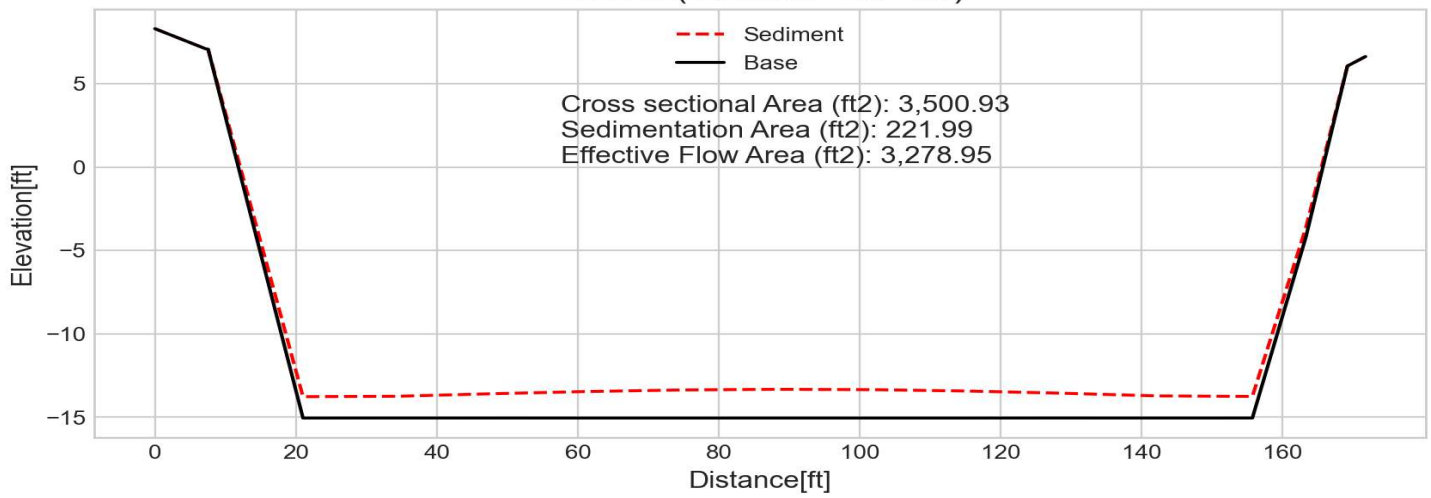
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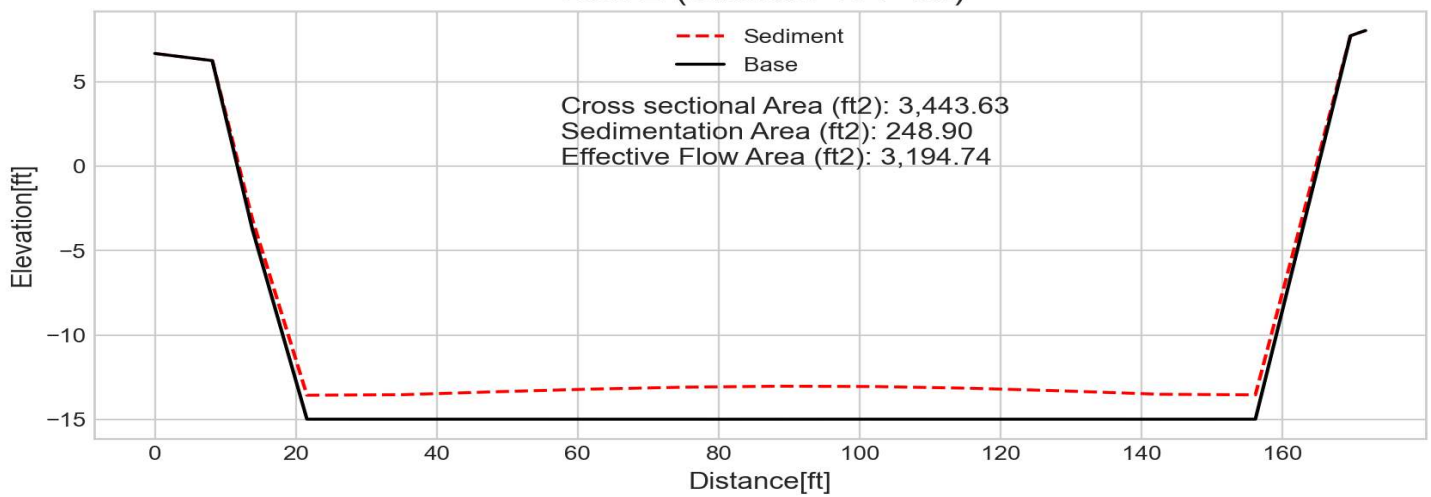
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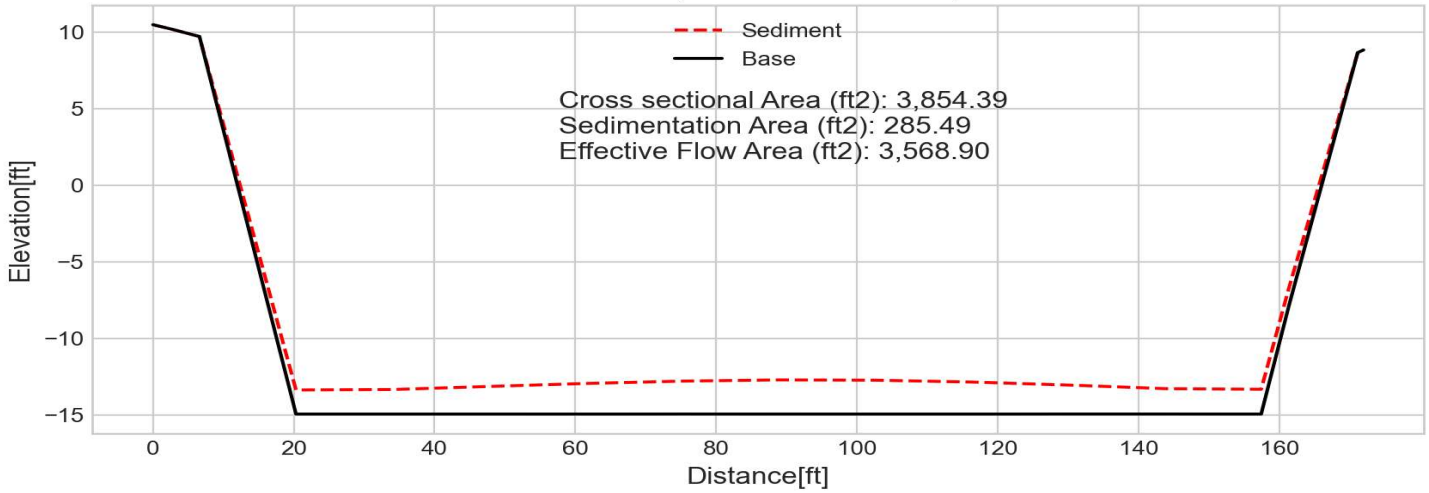
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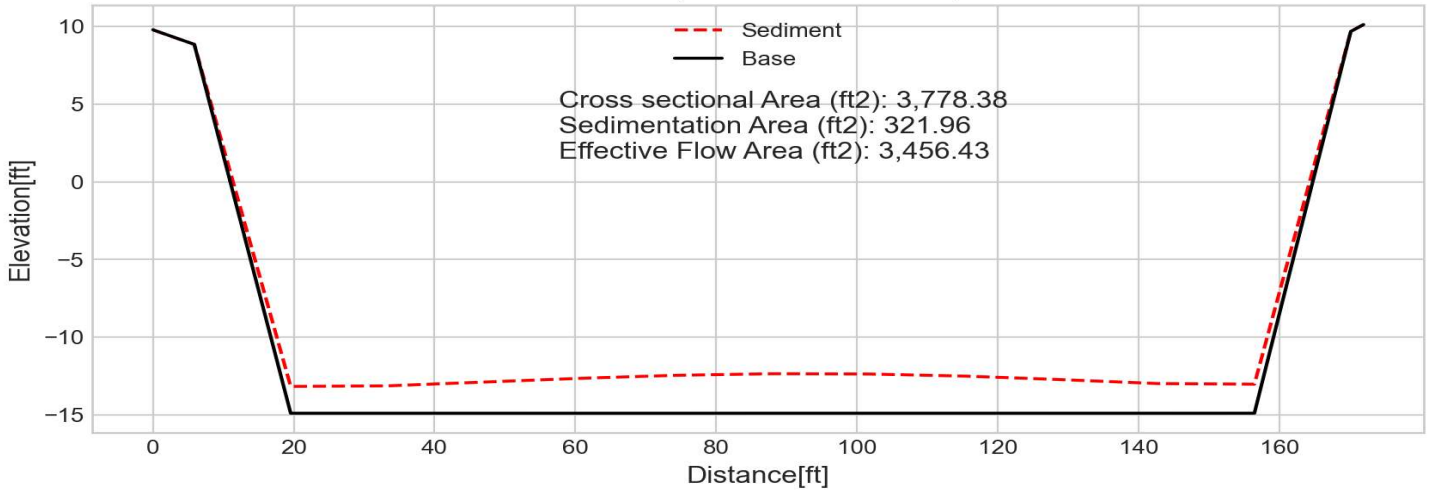
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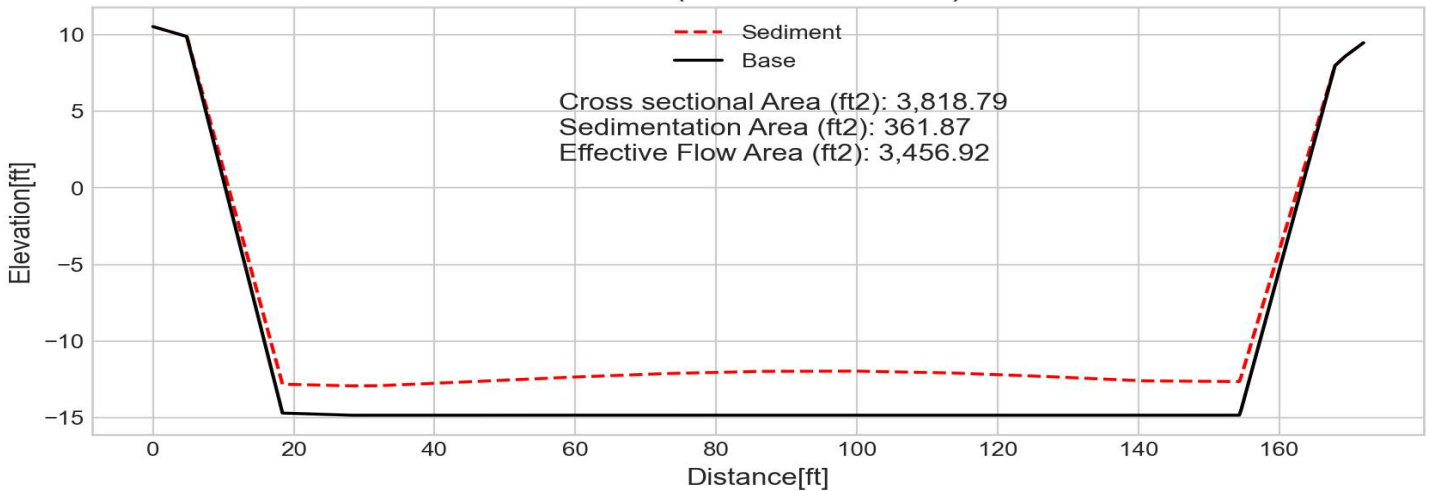
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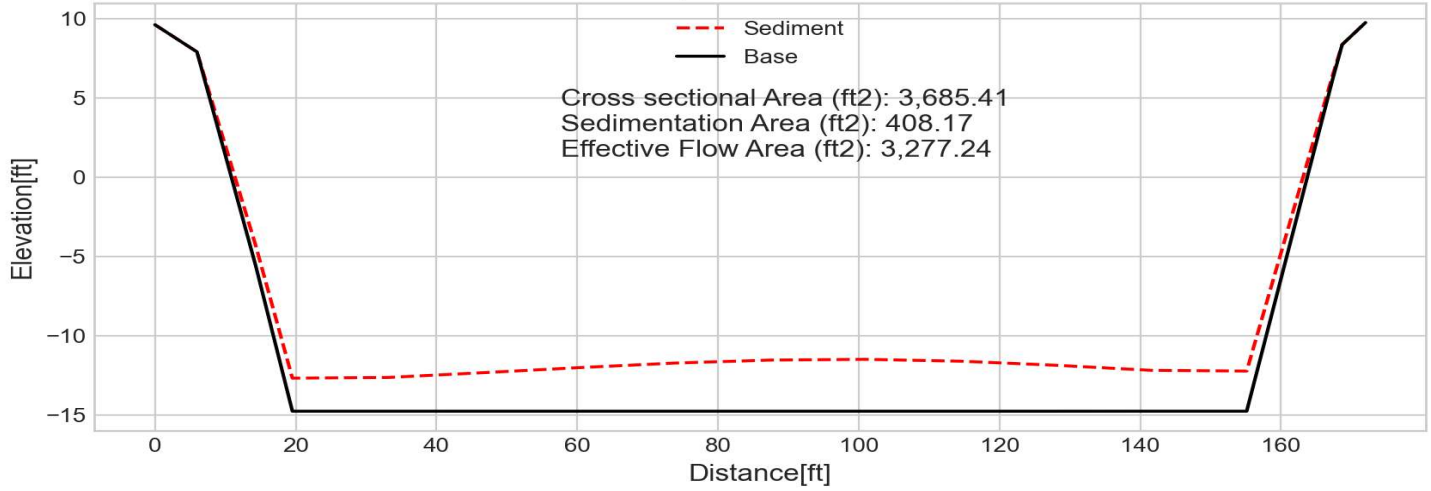
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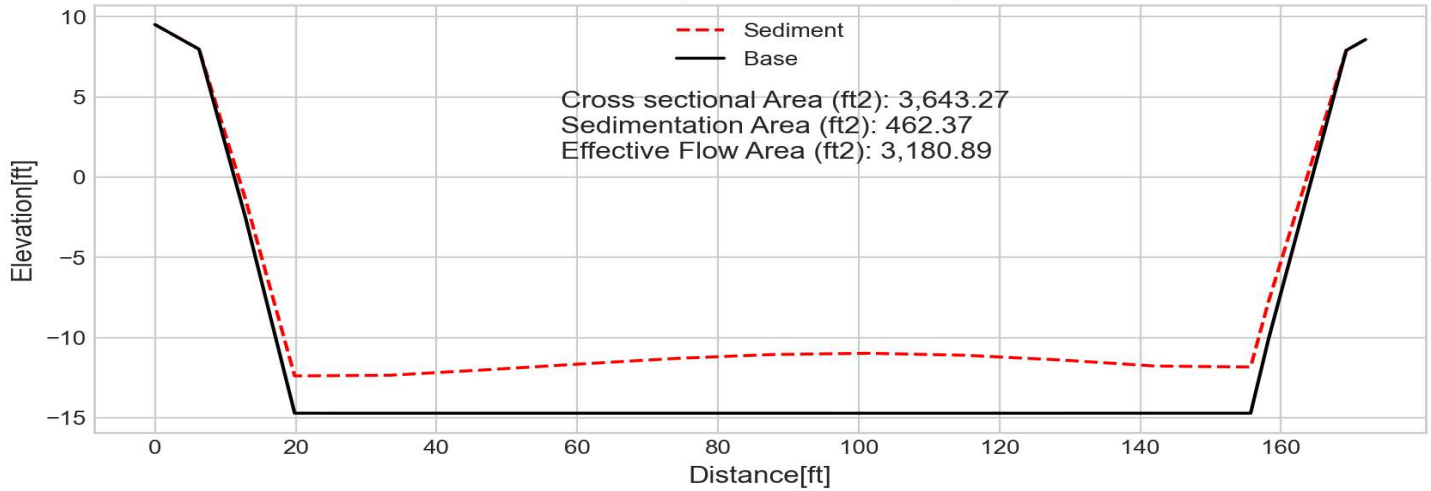
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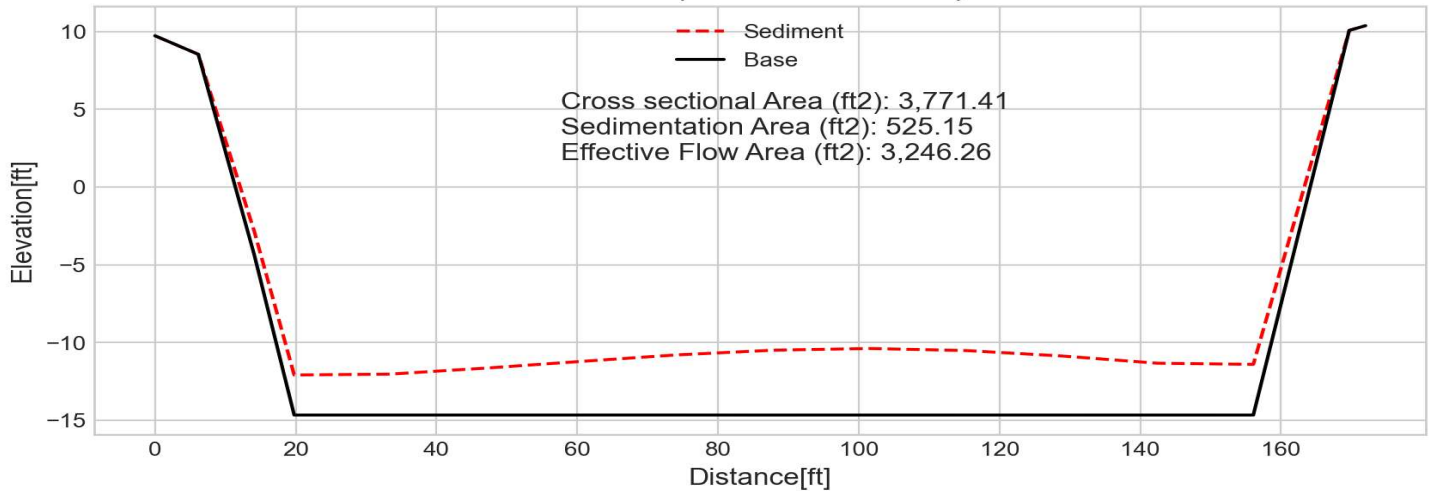
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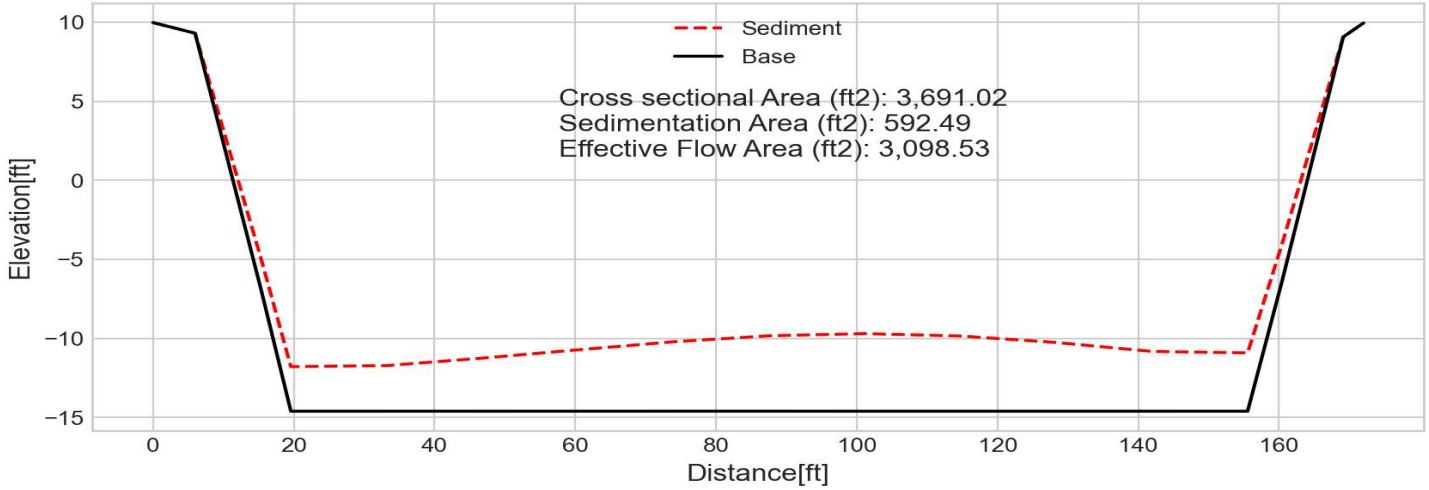
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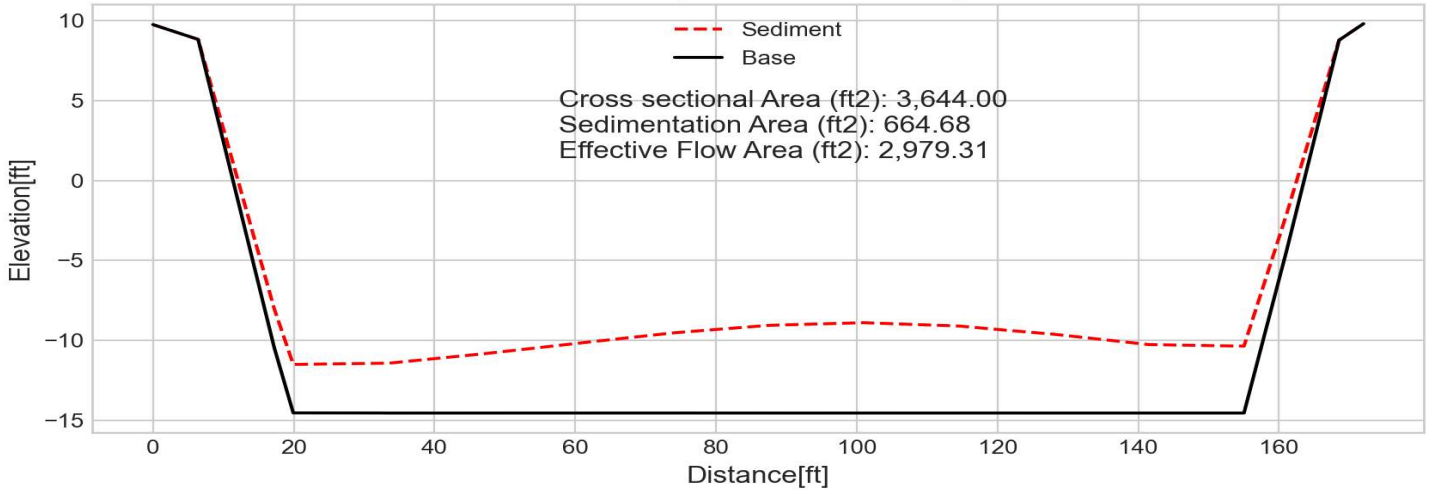
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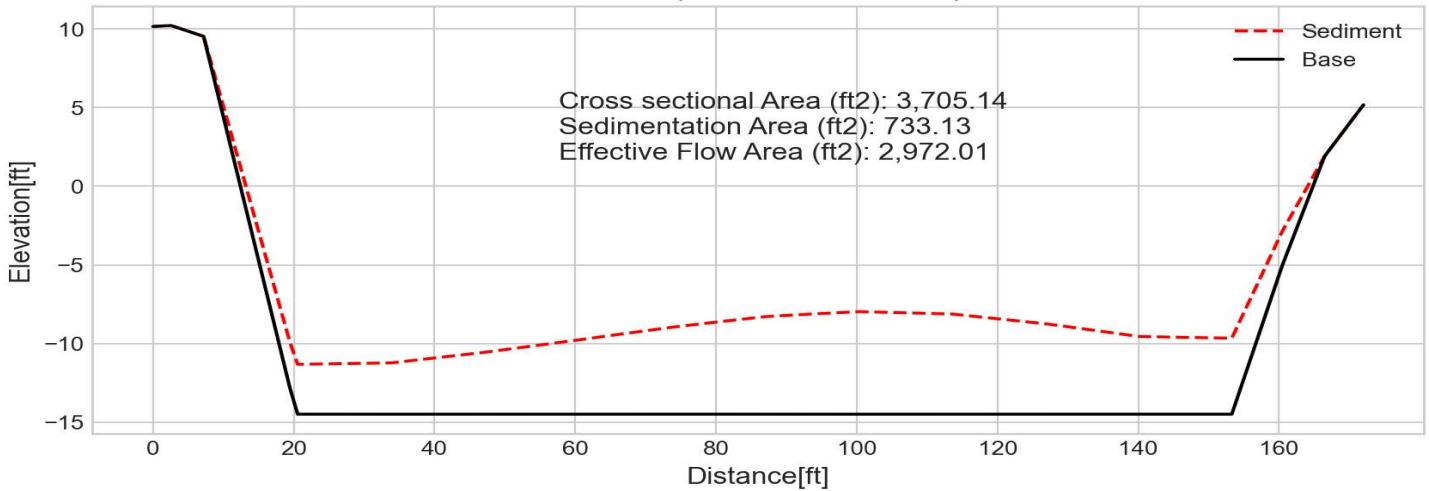
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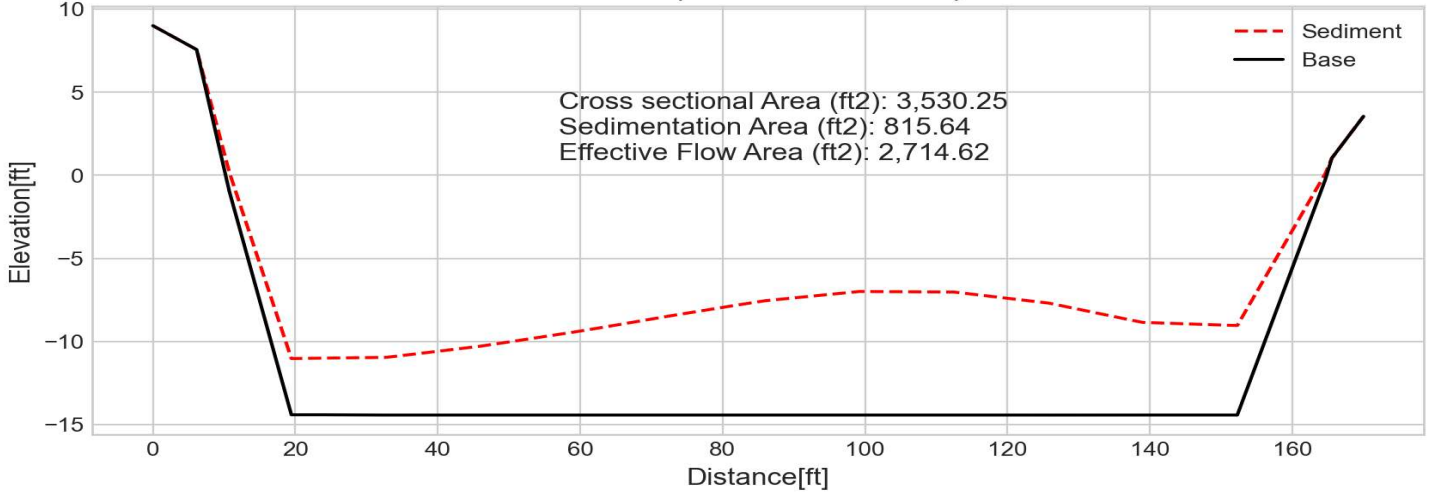
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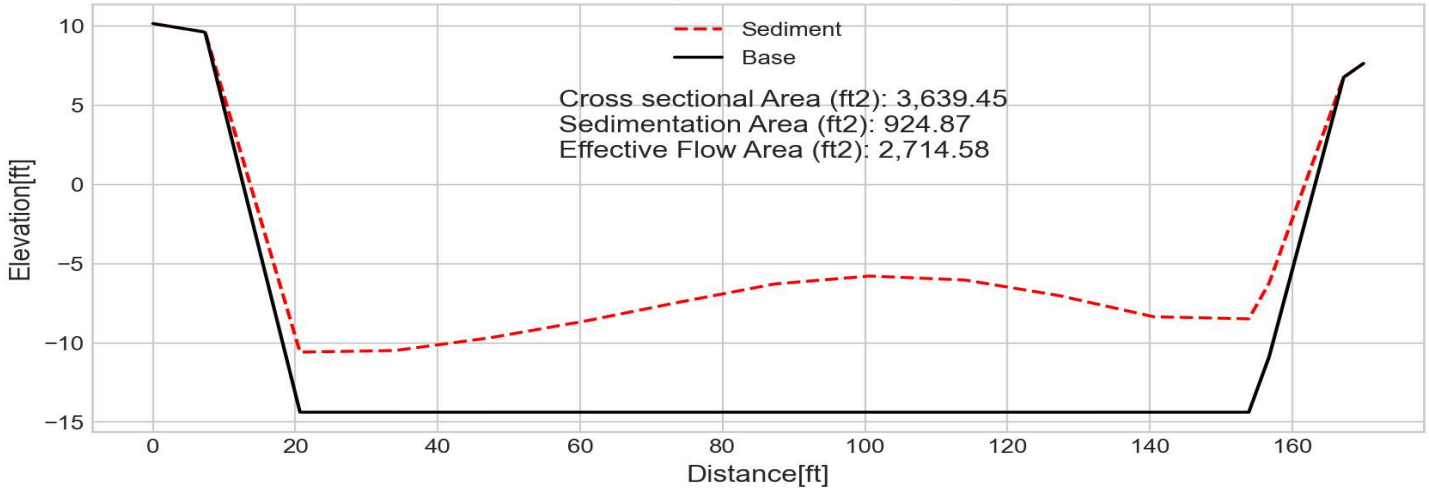
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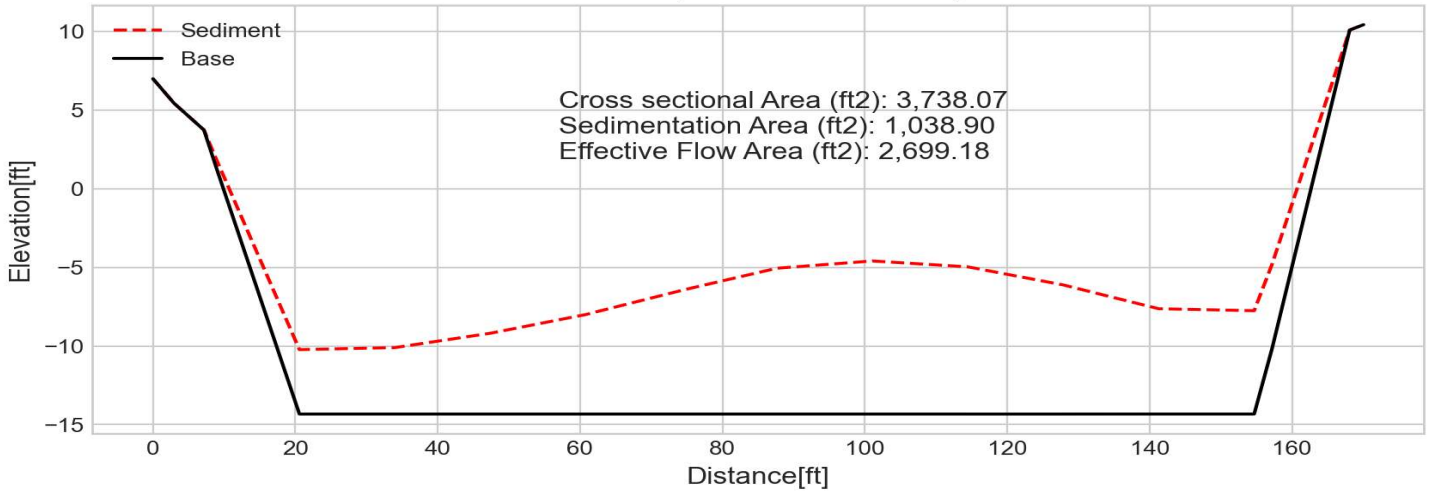
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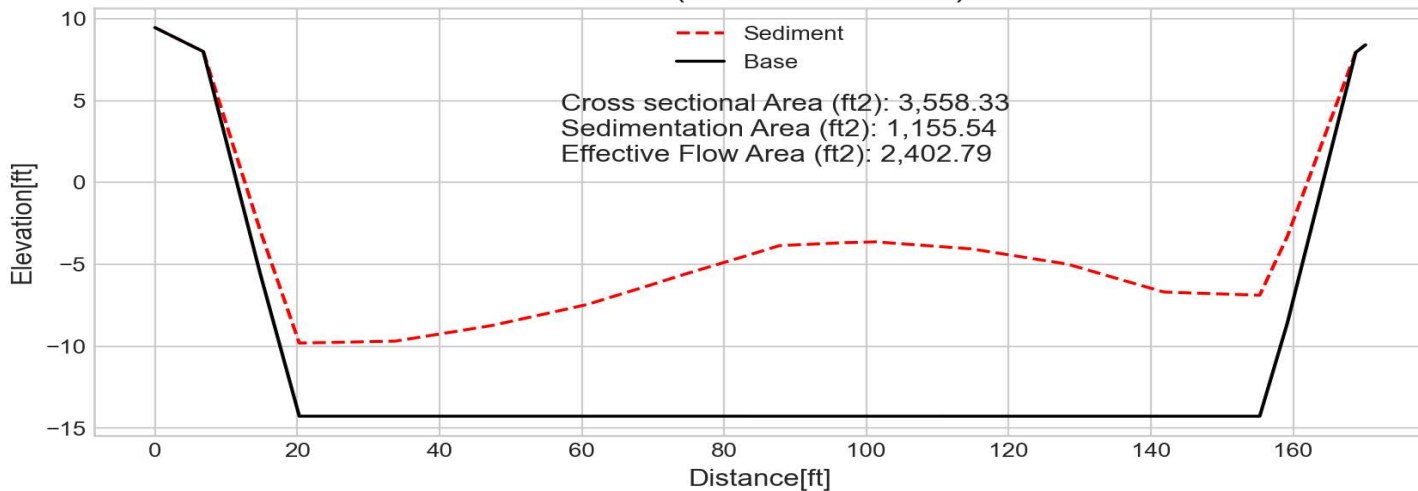
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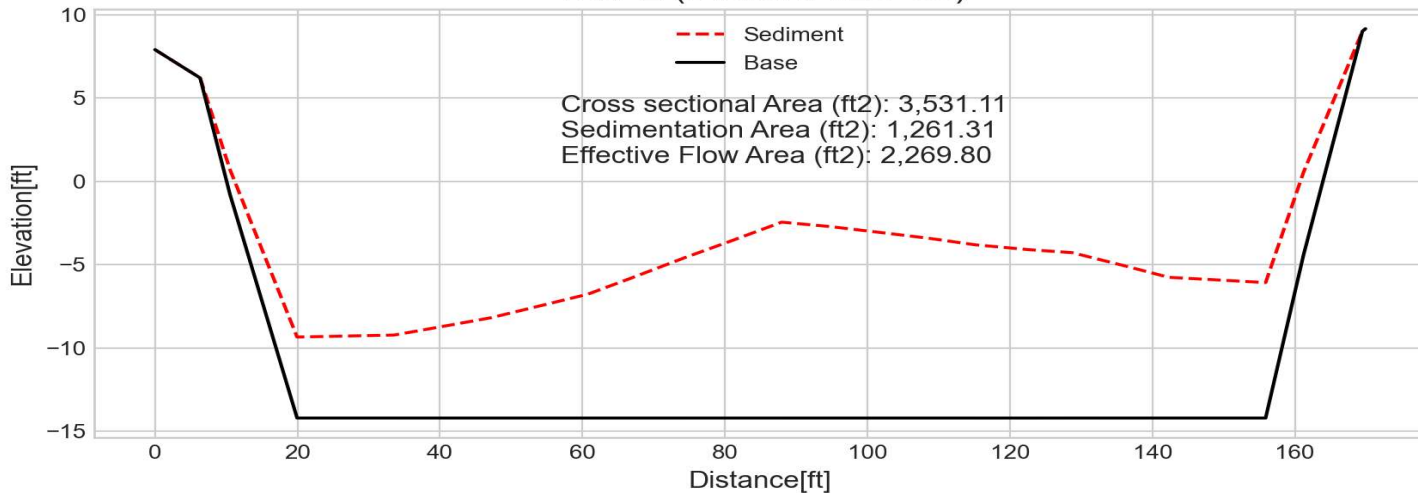
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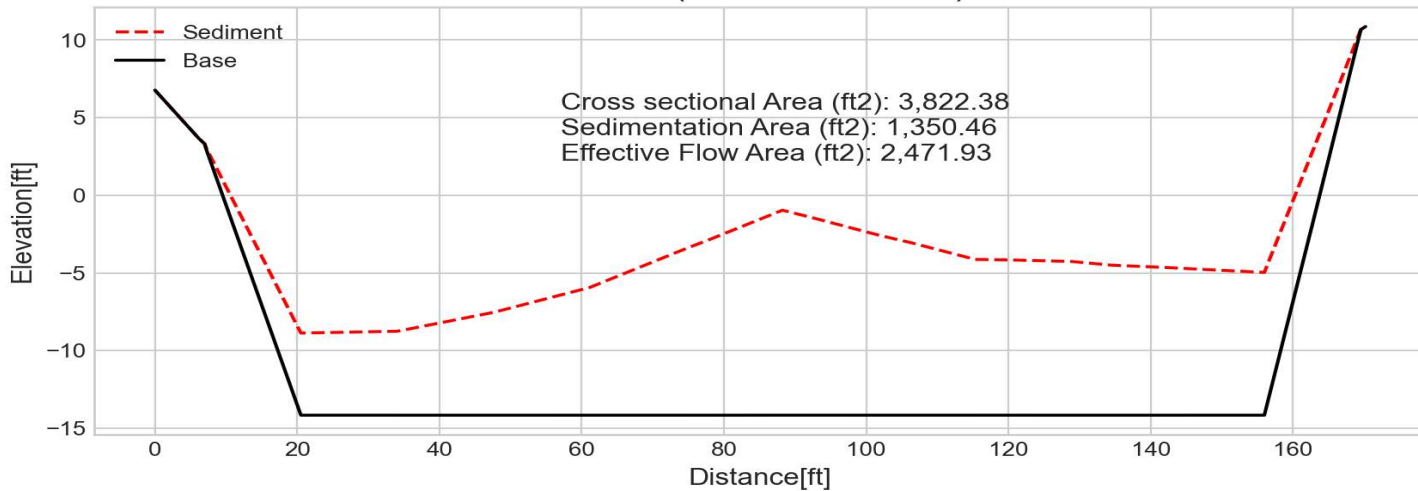
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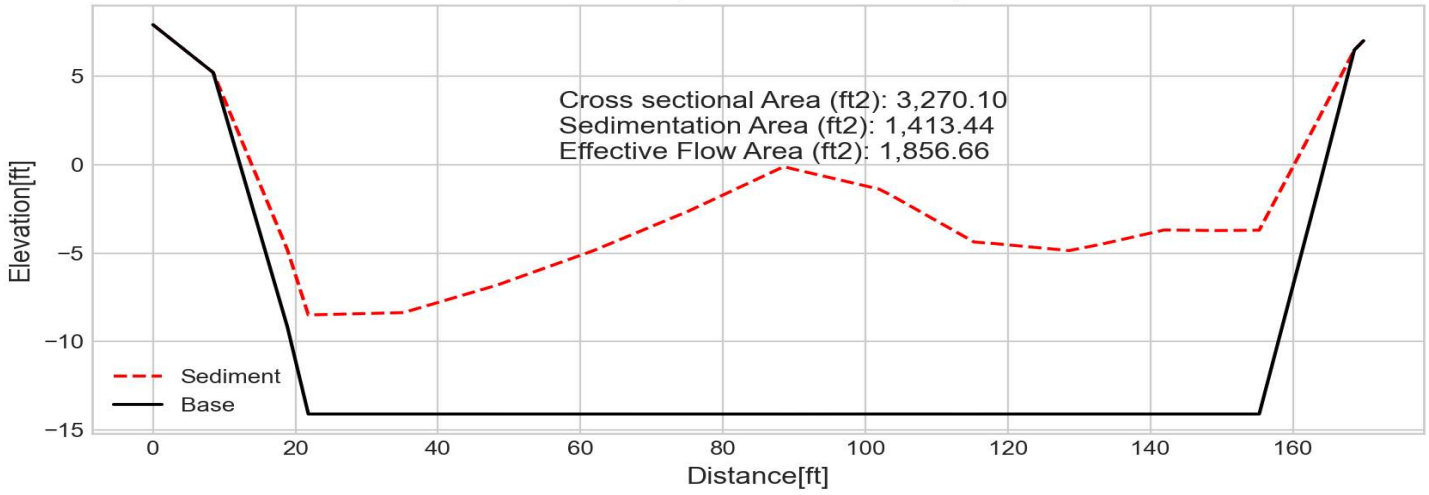
Year 2 (Station: 128+00)



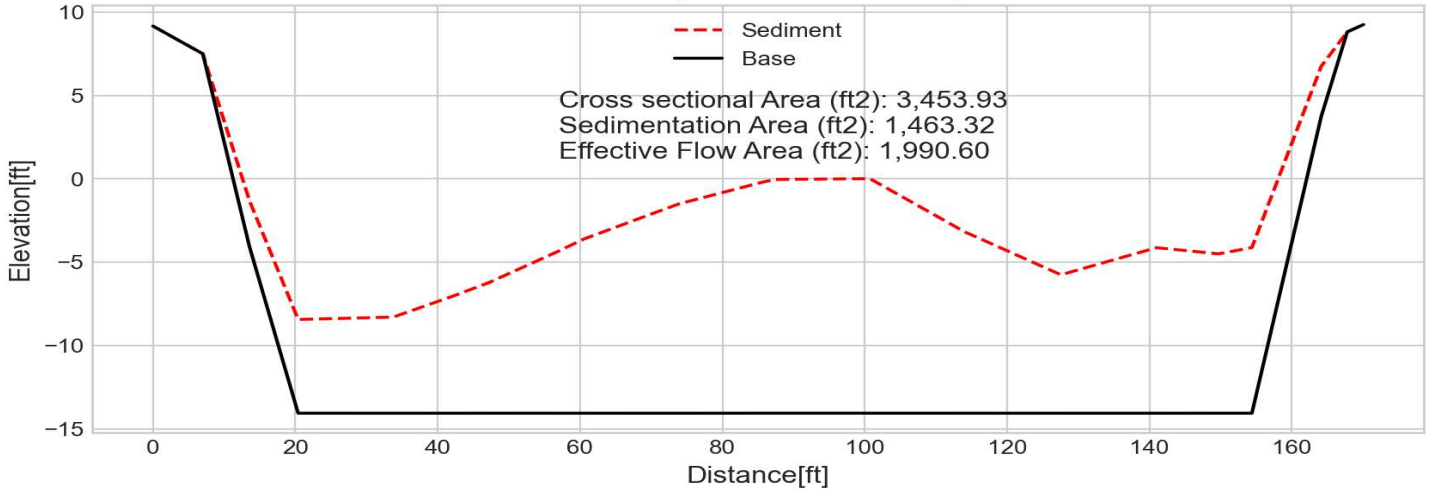
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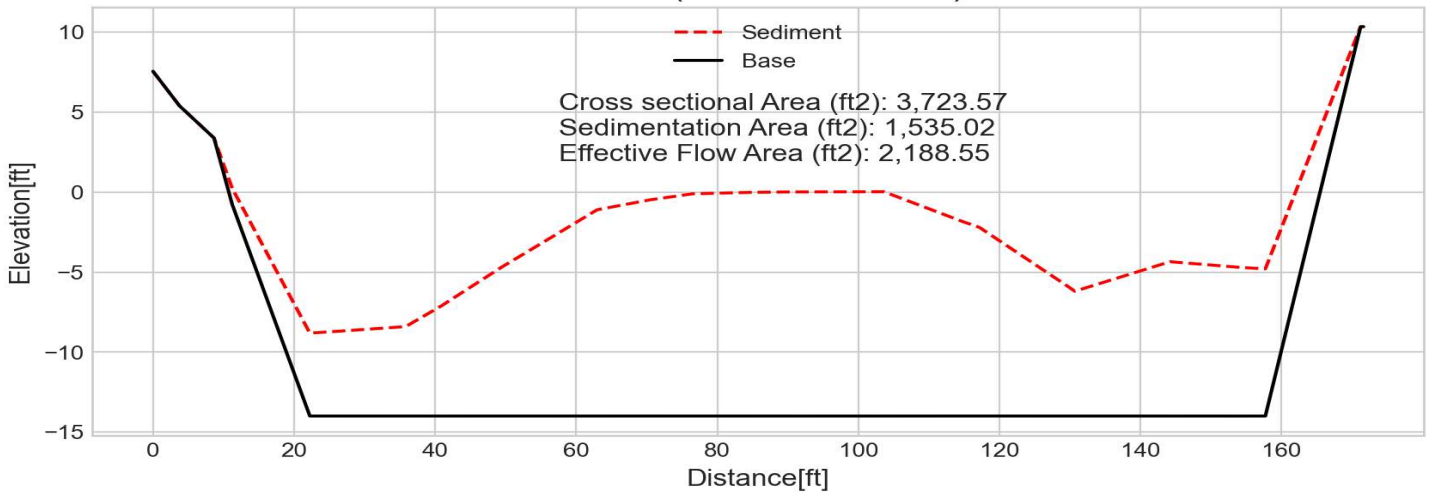
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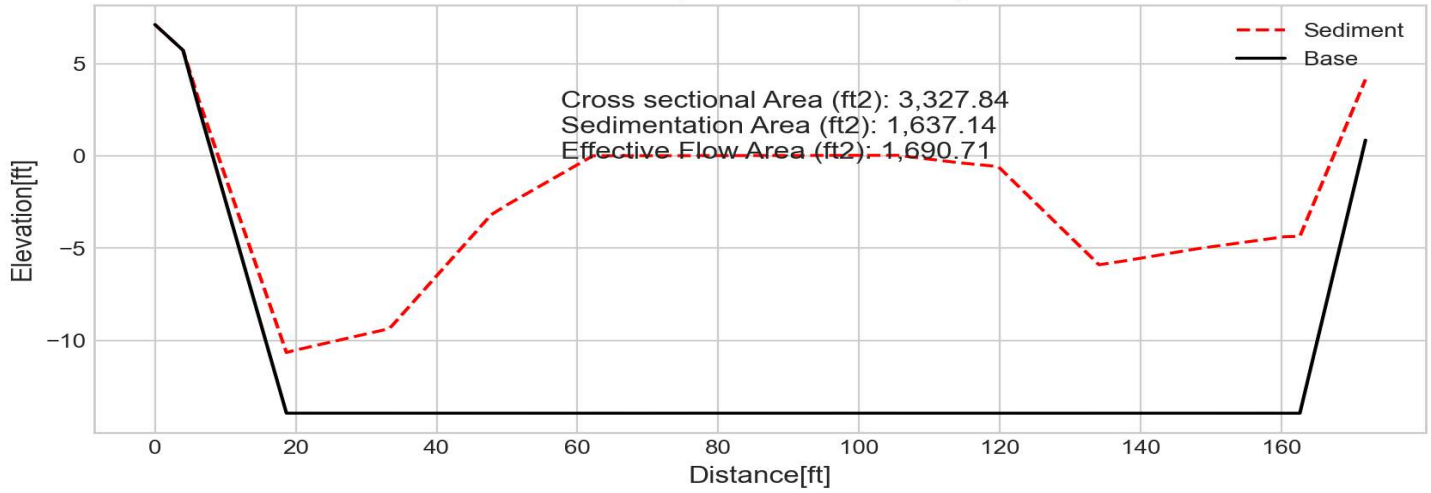
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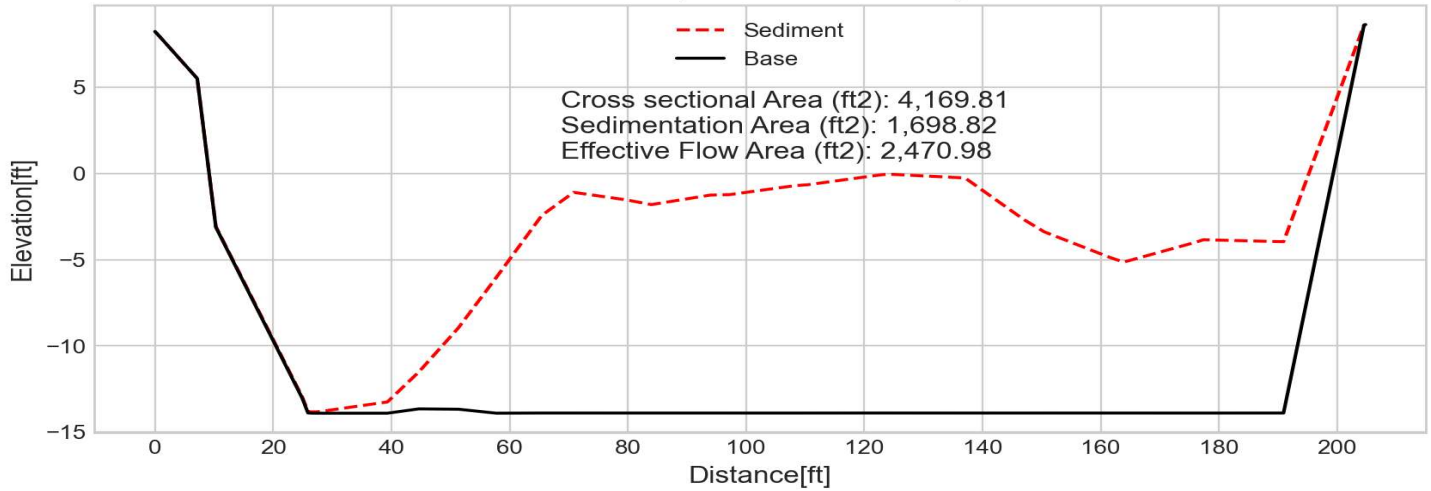
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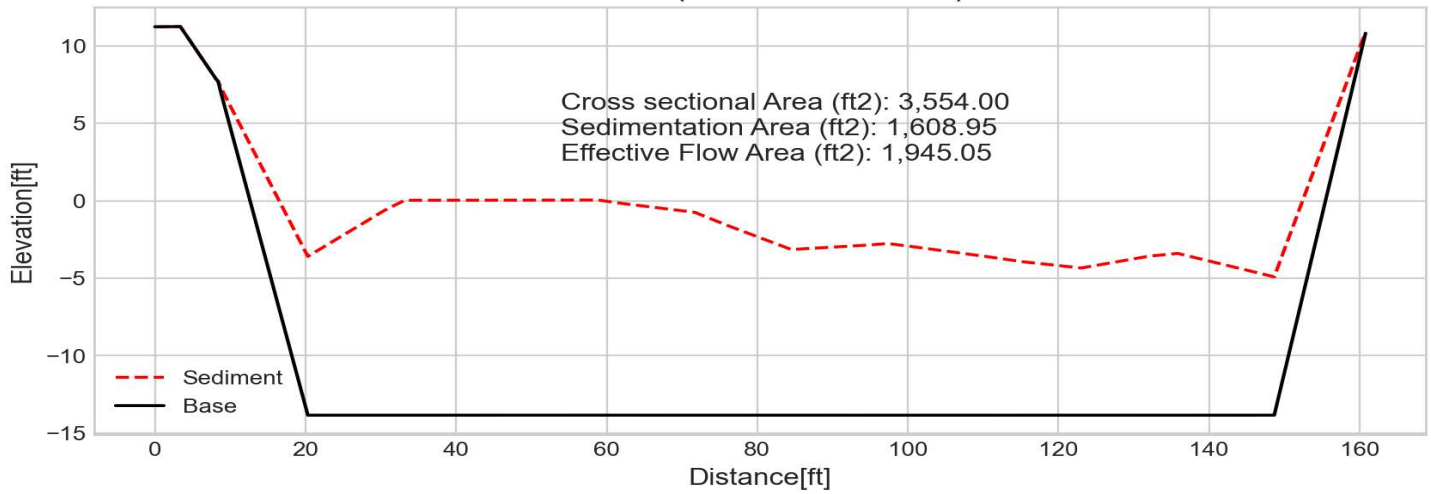
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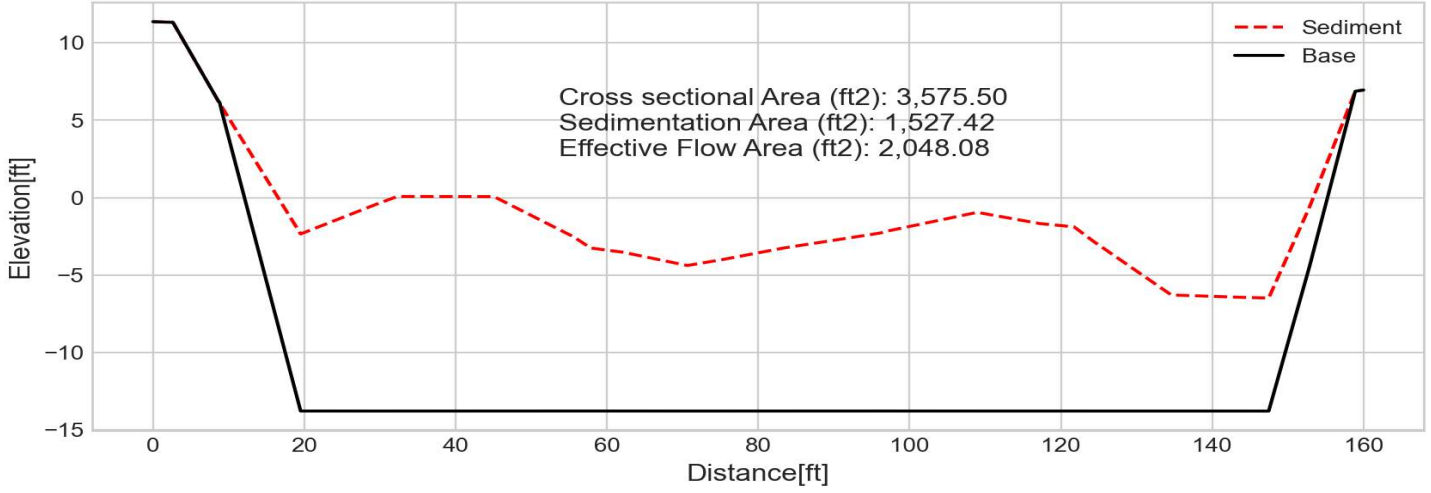
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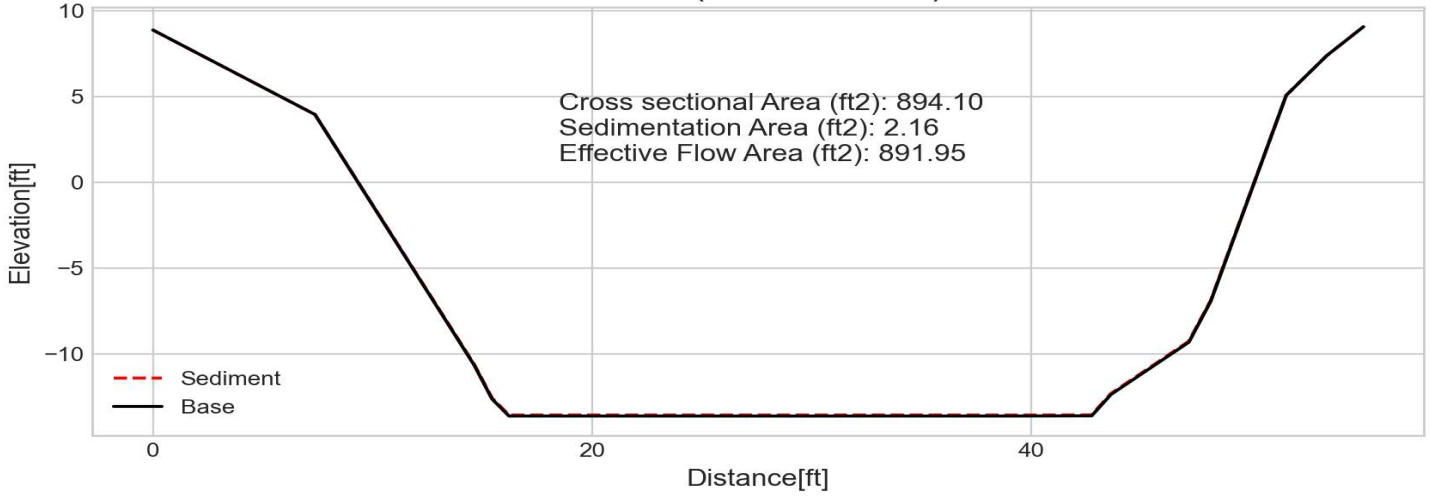
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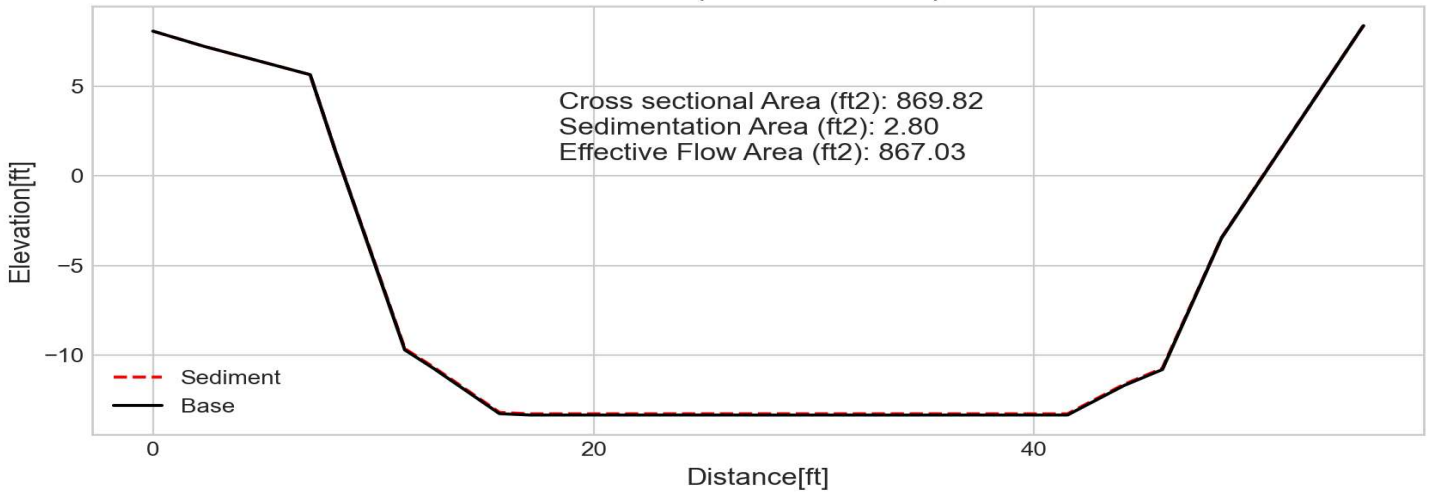
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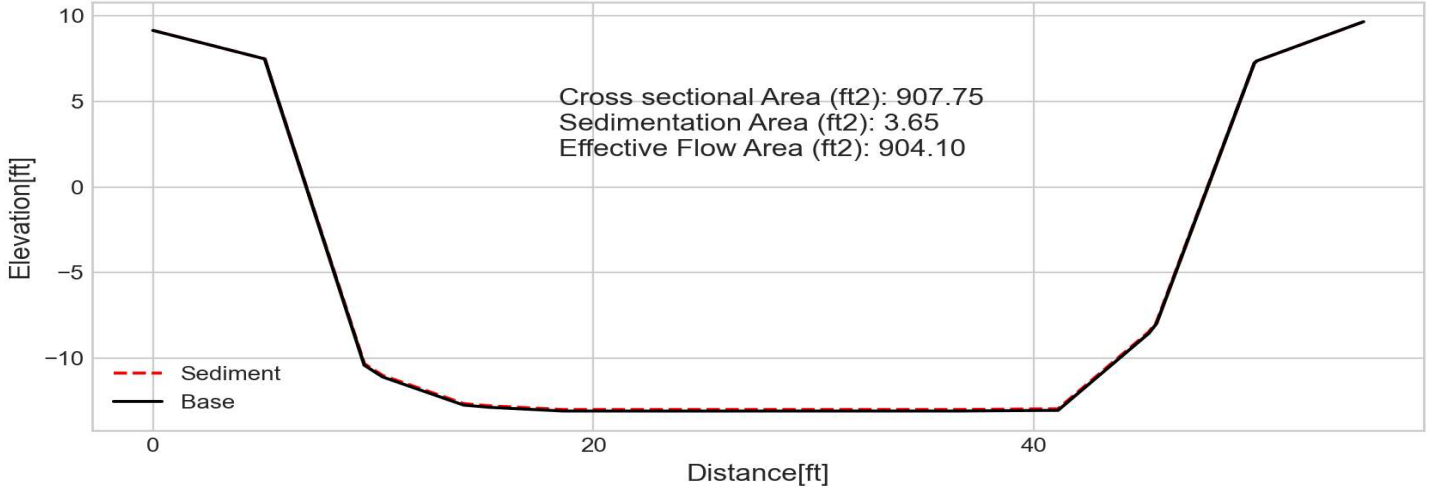
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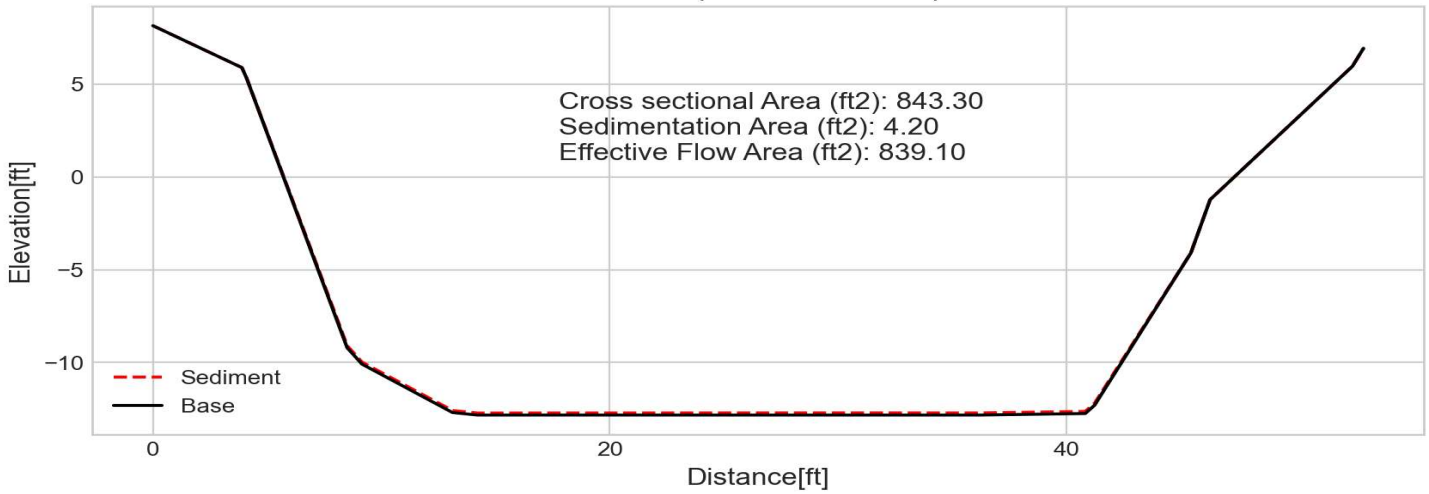
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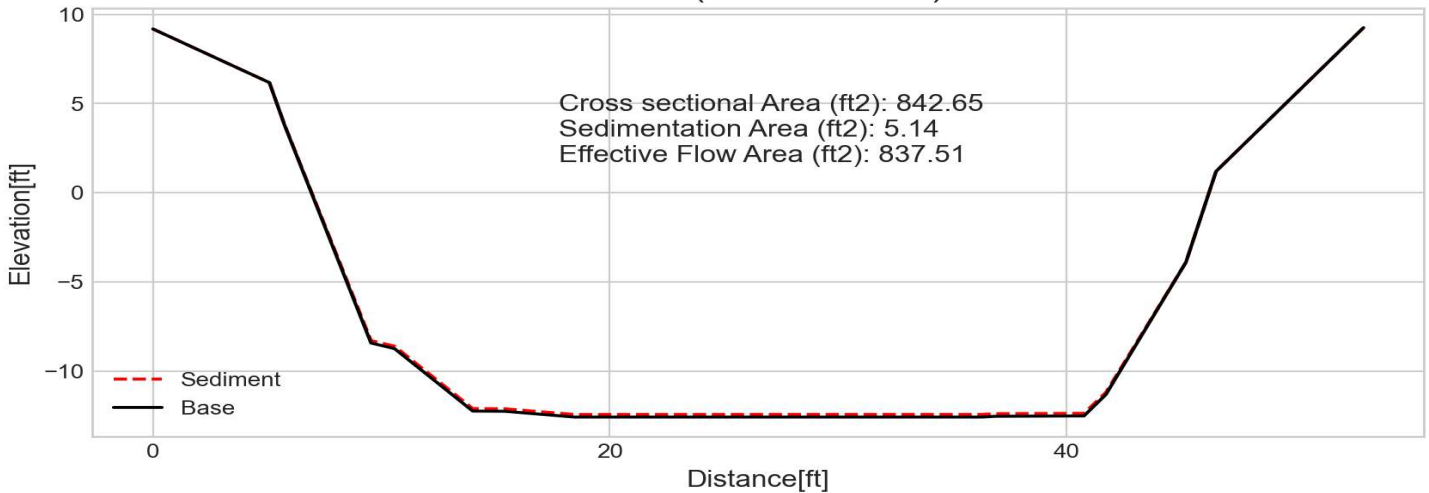
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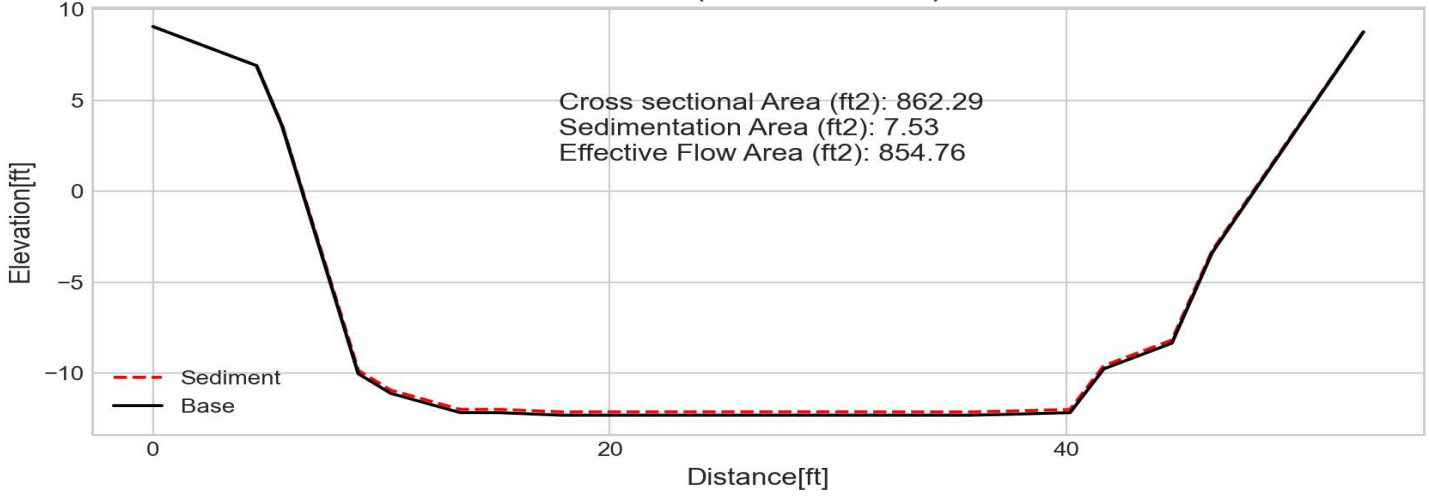
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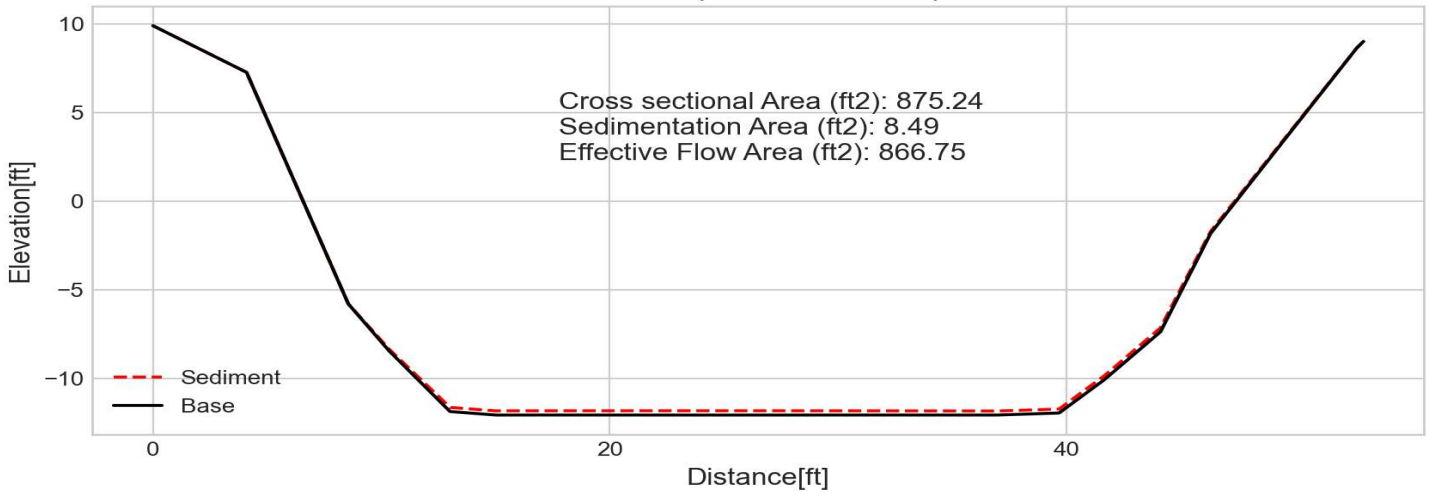
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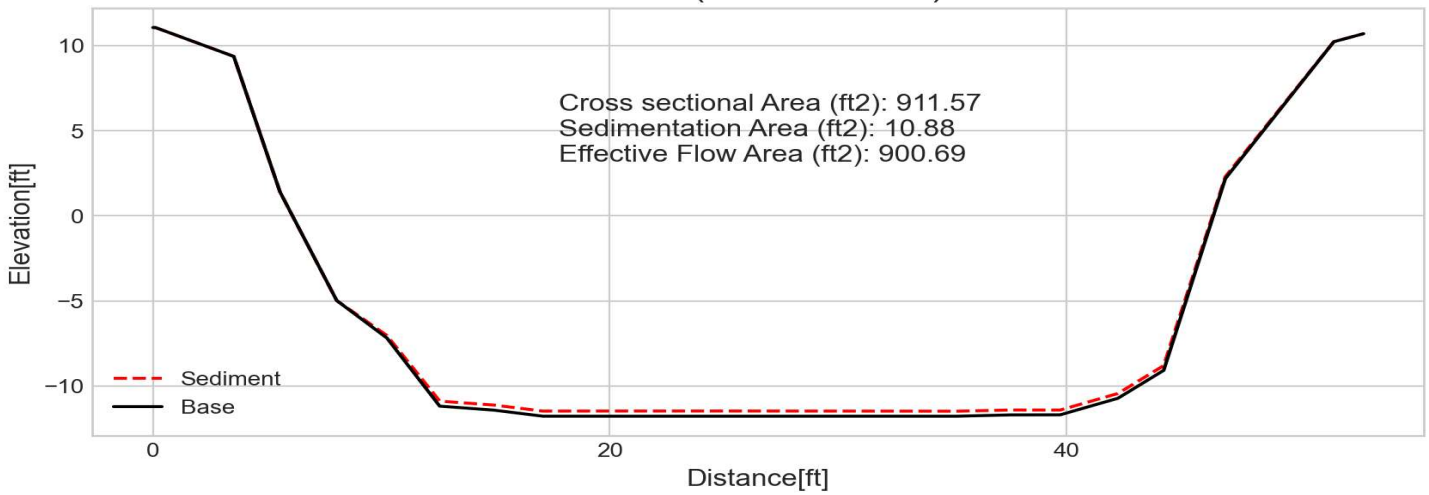
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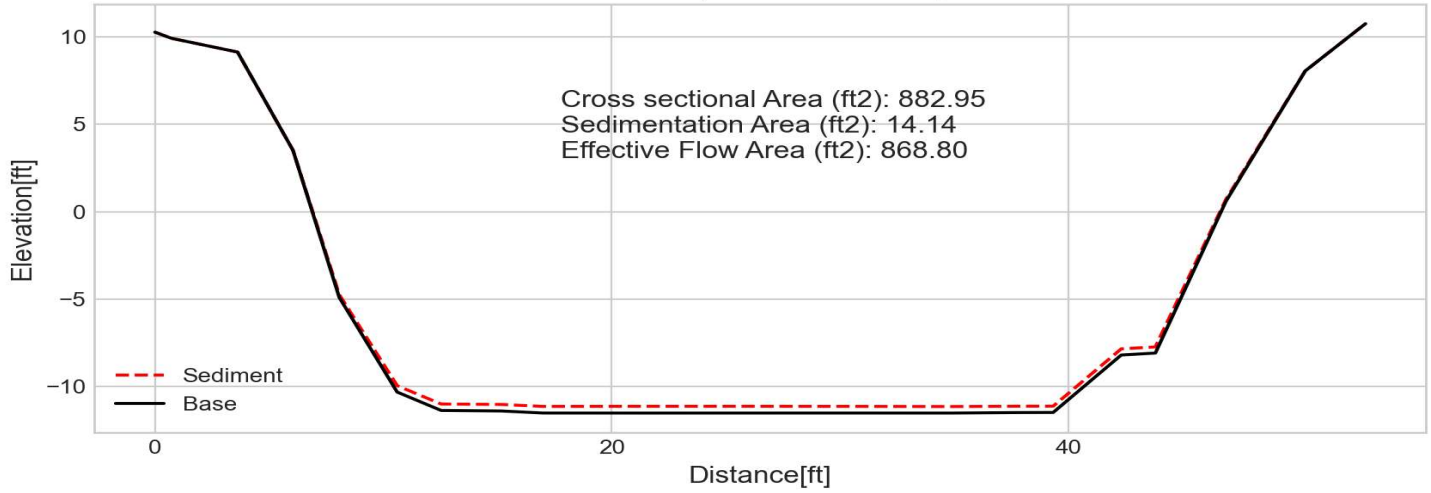
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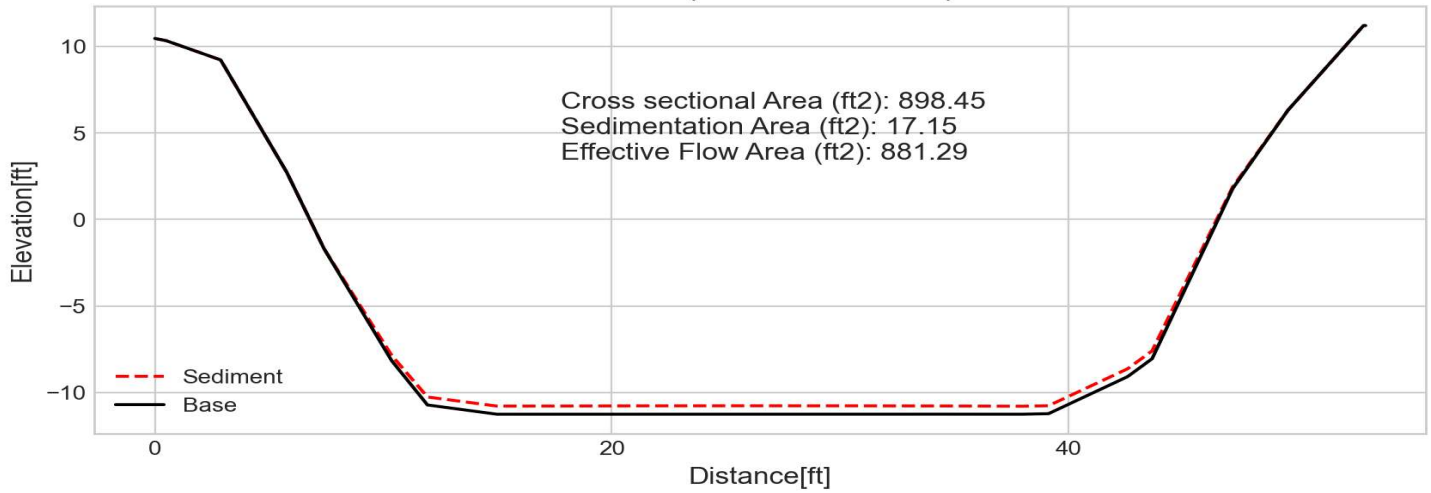
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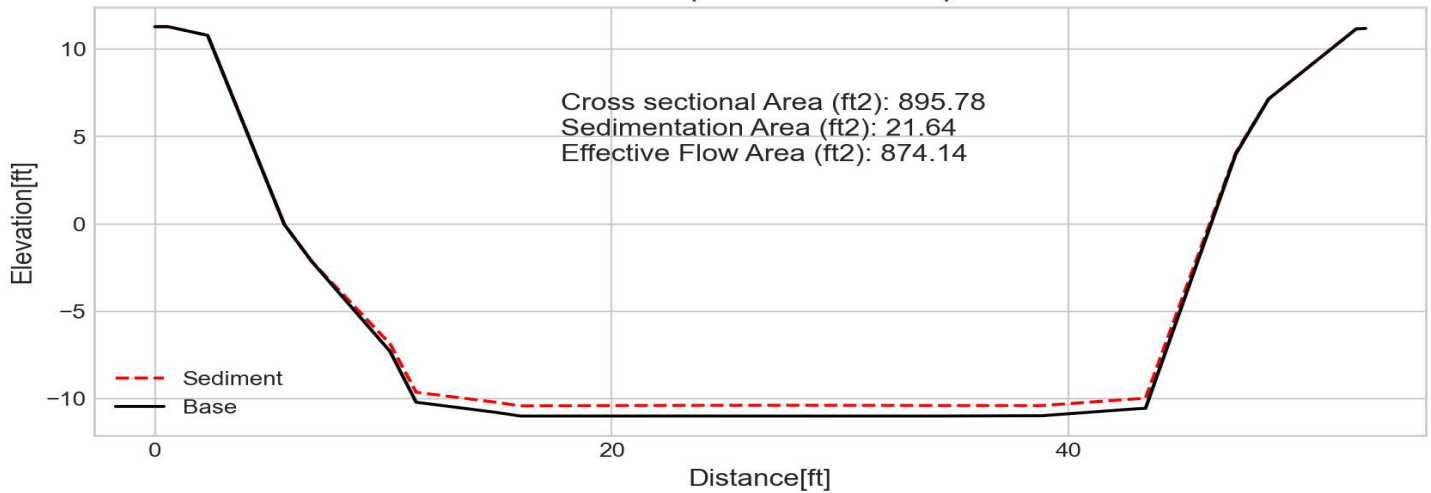
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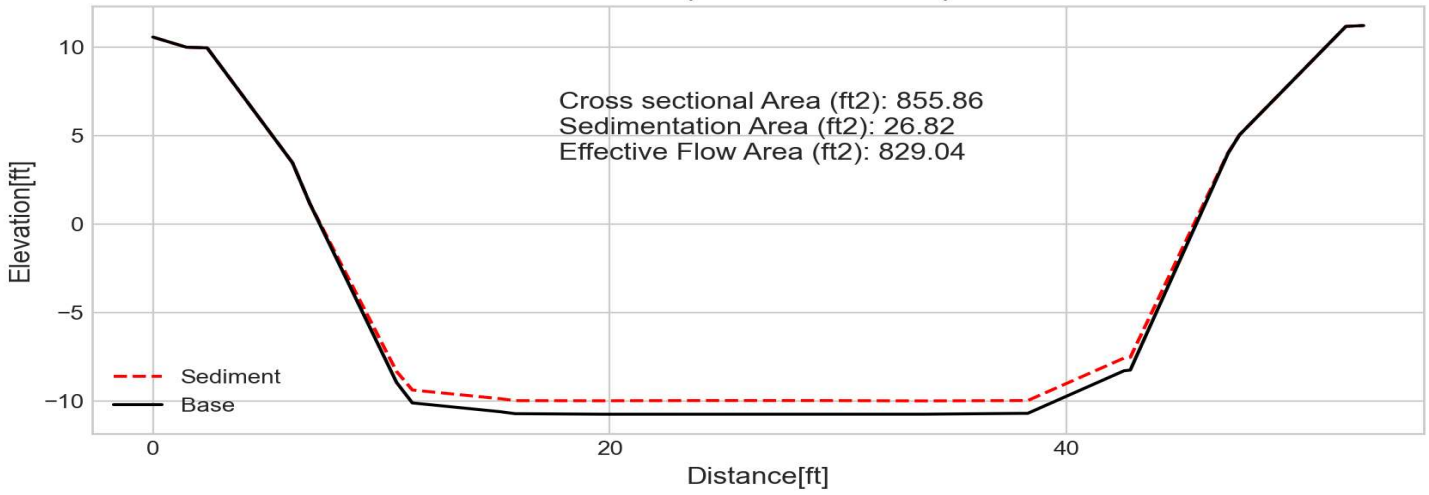
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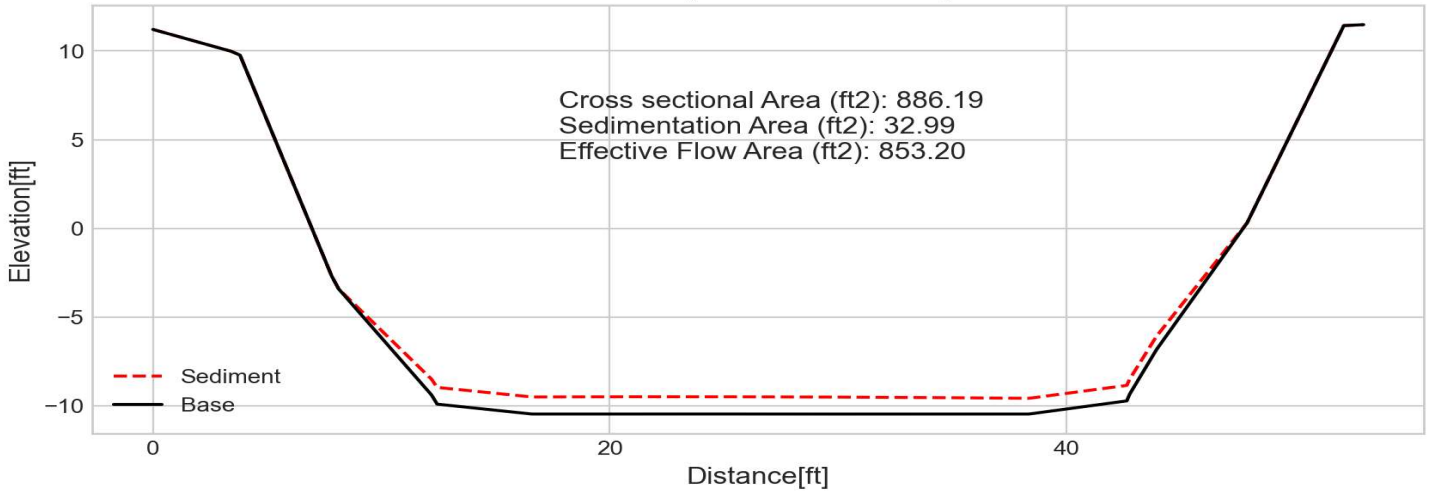
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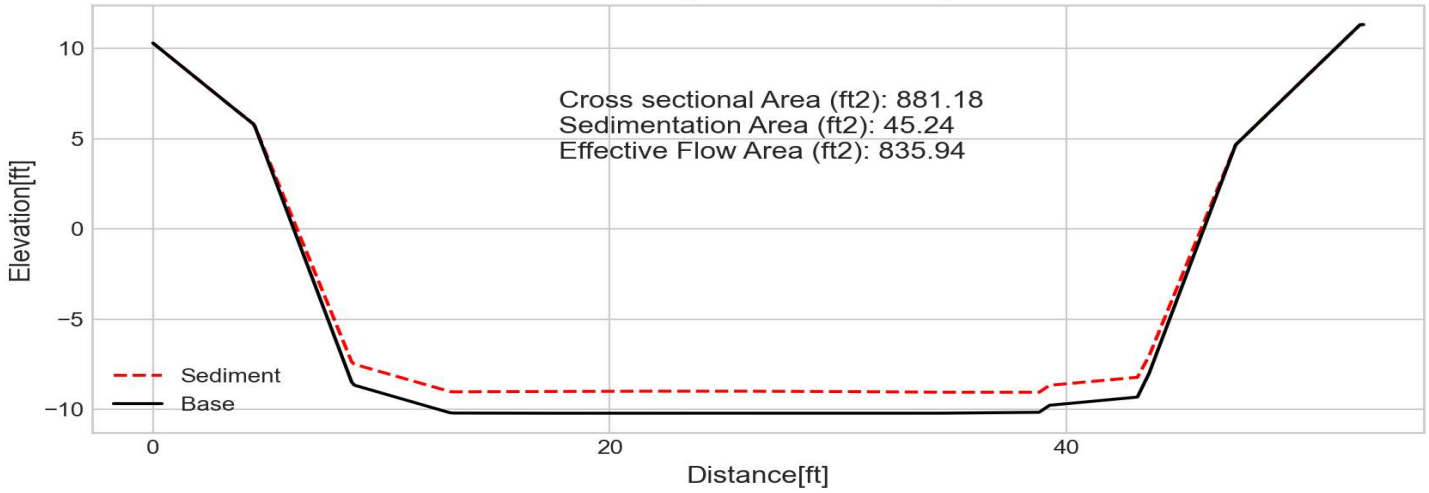
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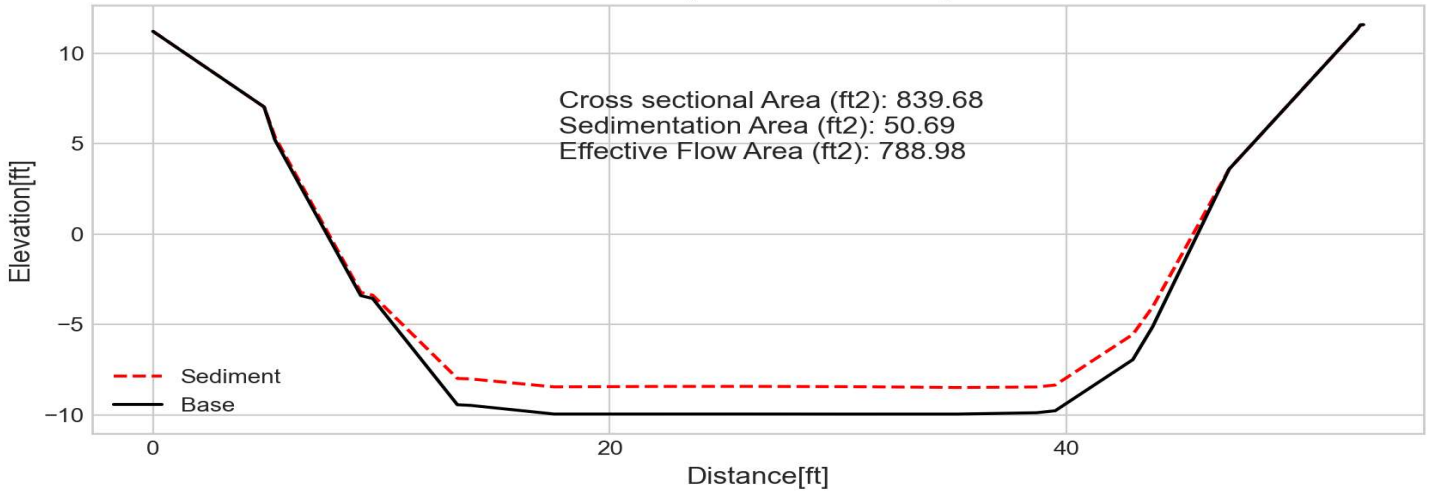
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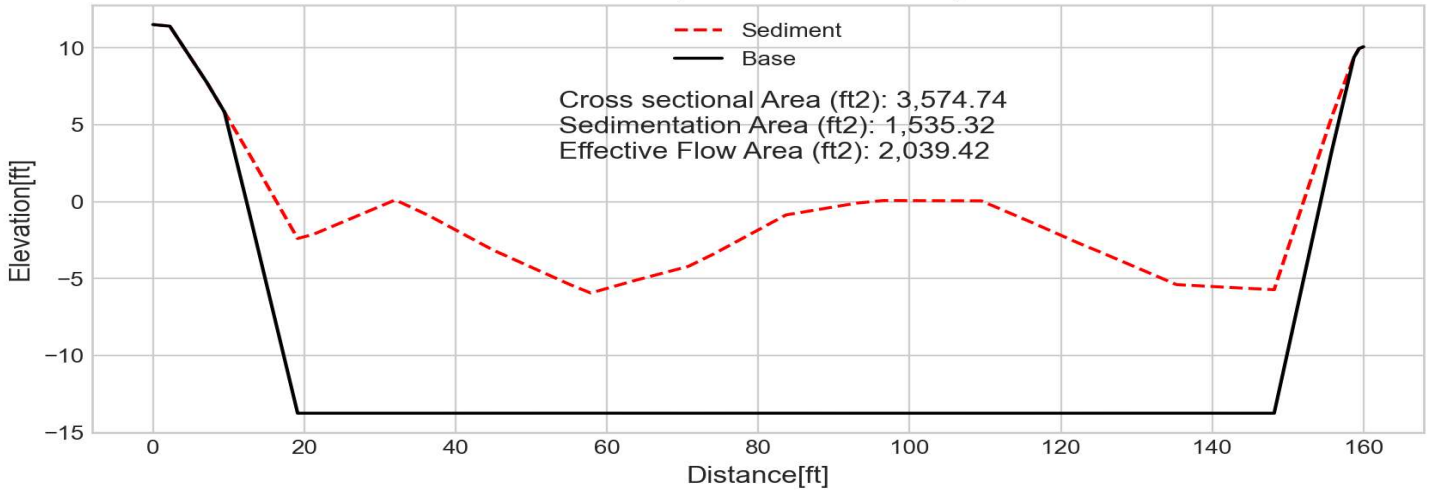
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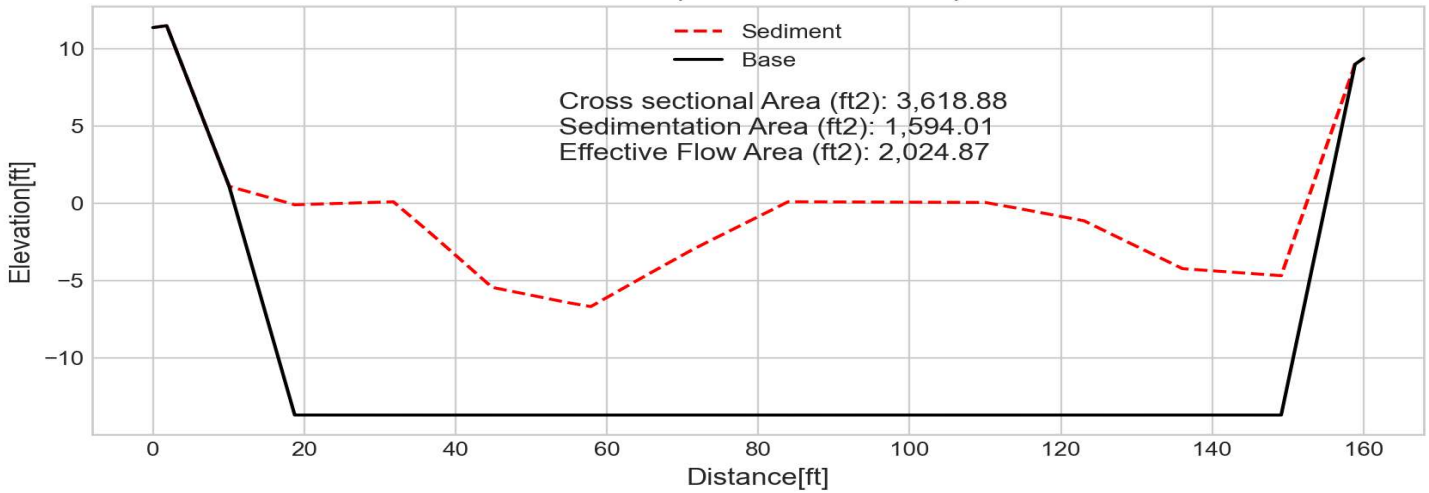
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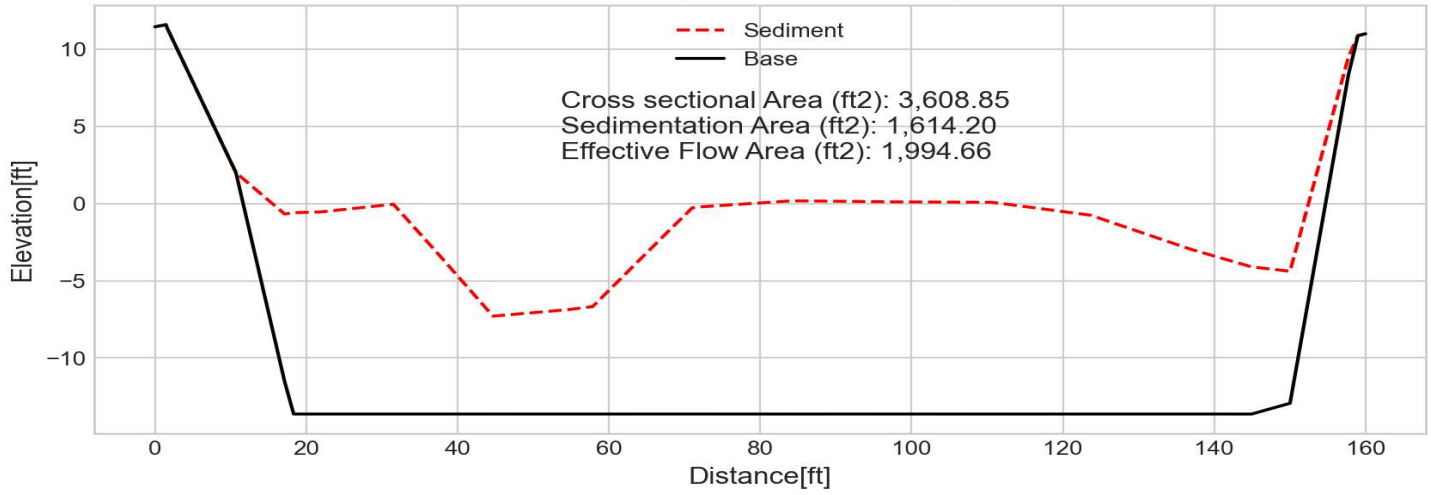
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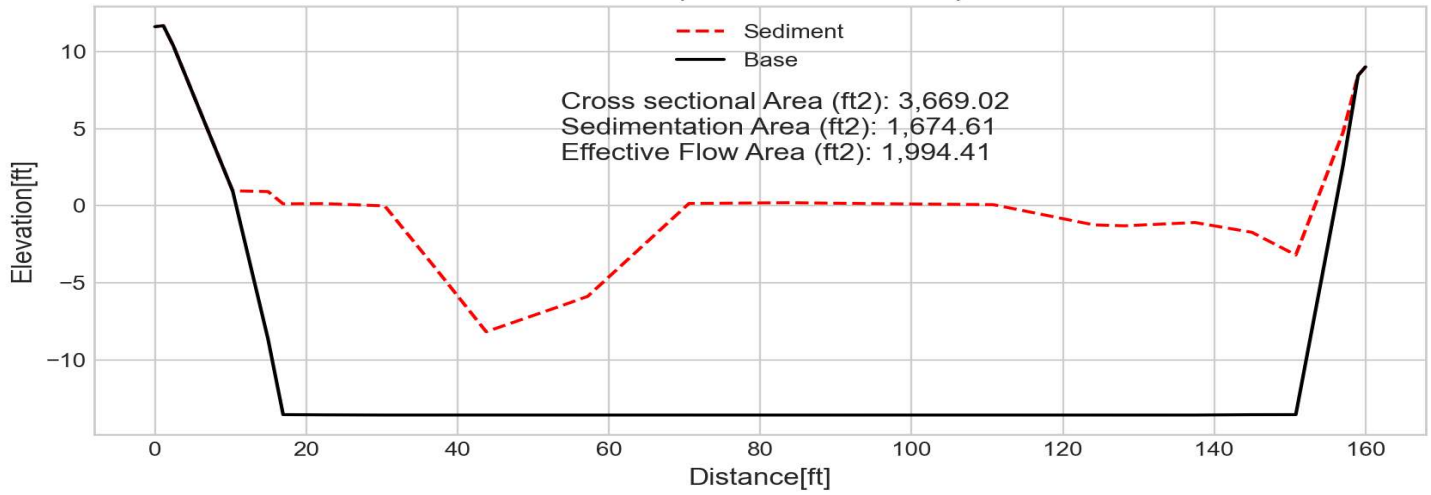
Year 2 (Station: 138+00)



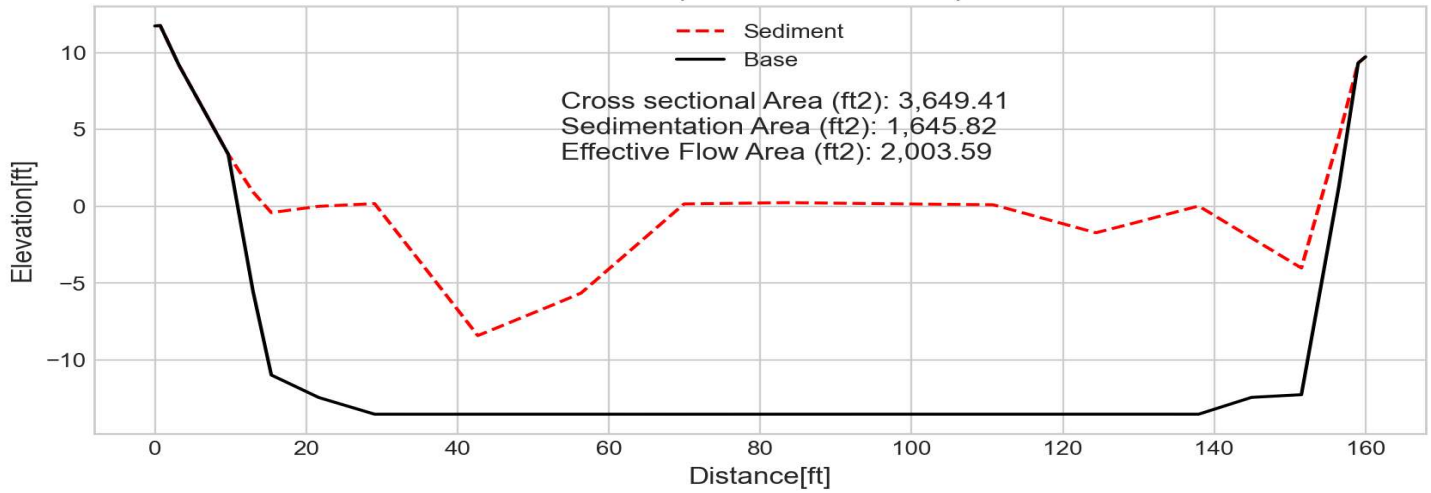
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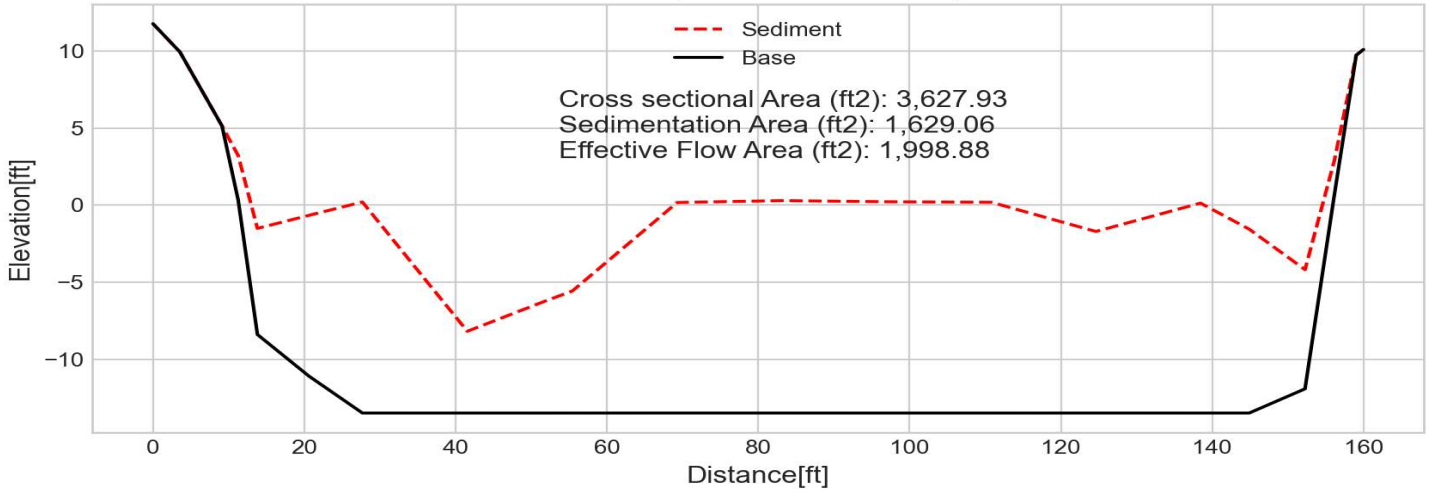
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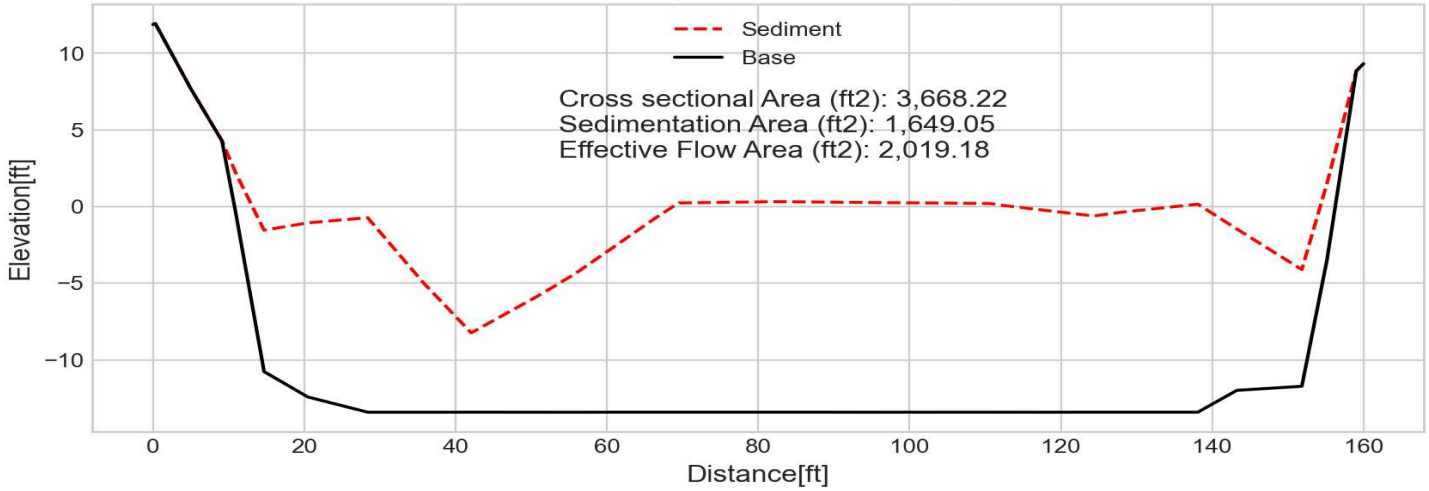
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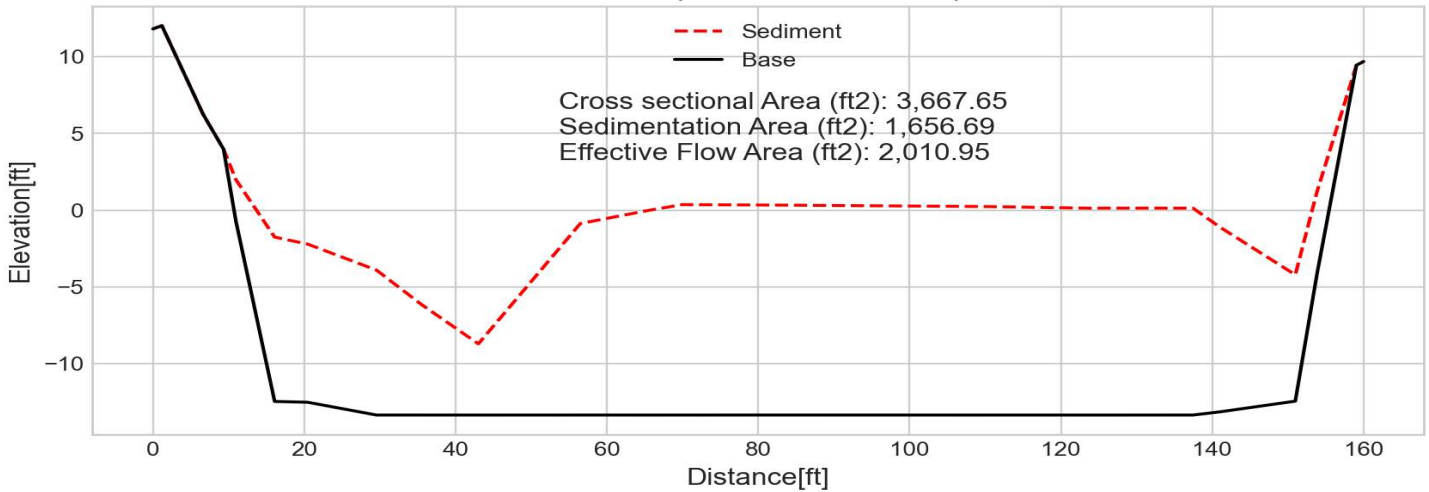
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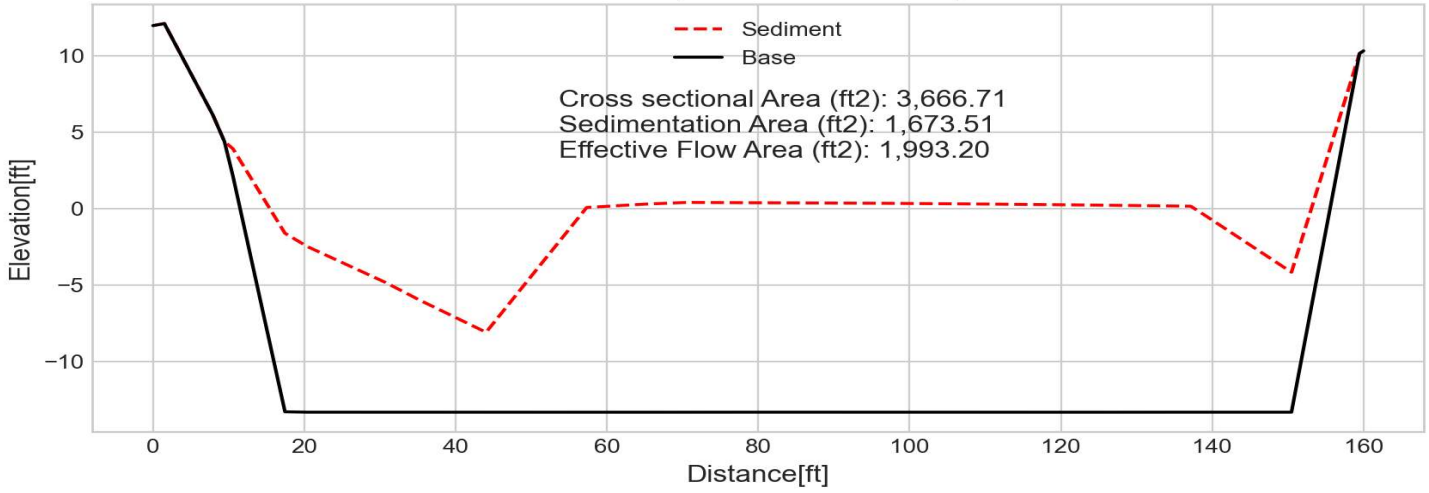
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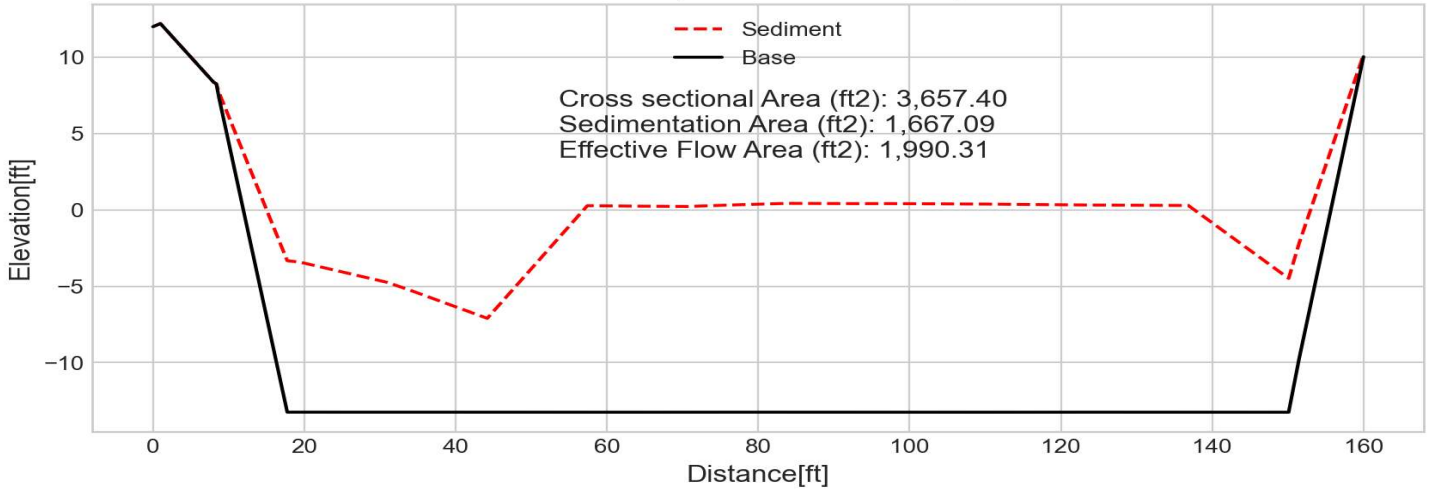
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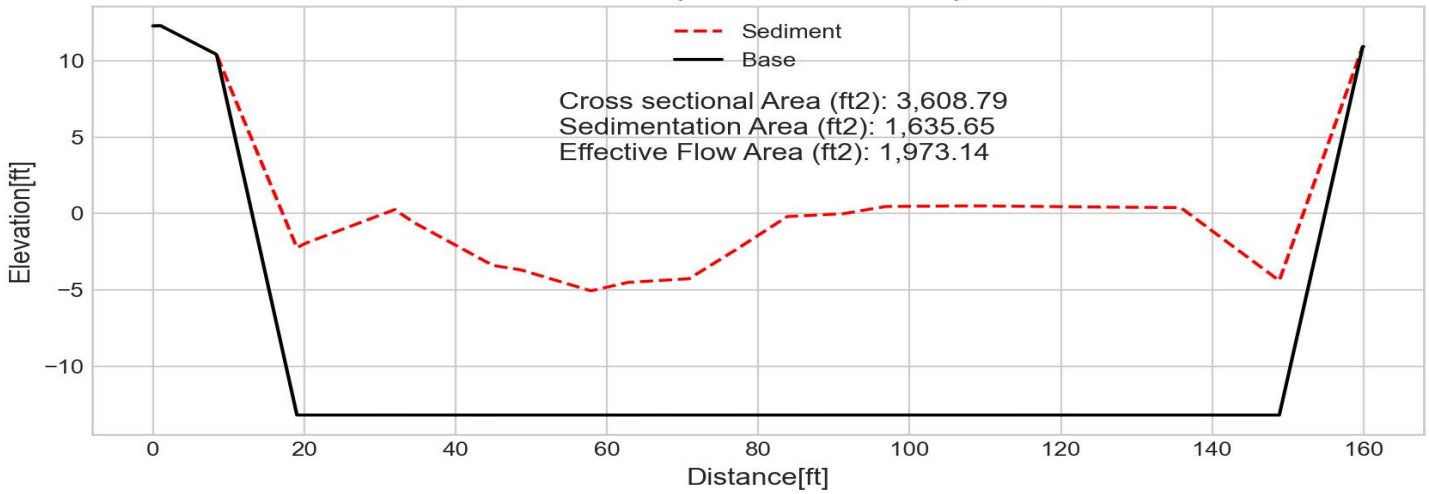
Year 2 (Station: 145+00)



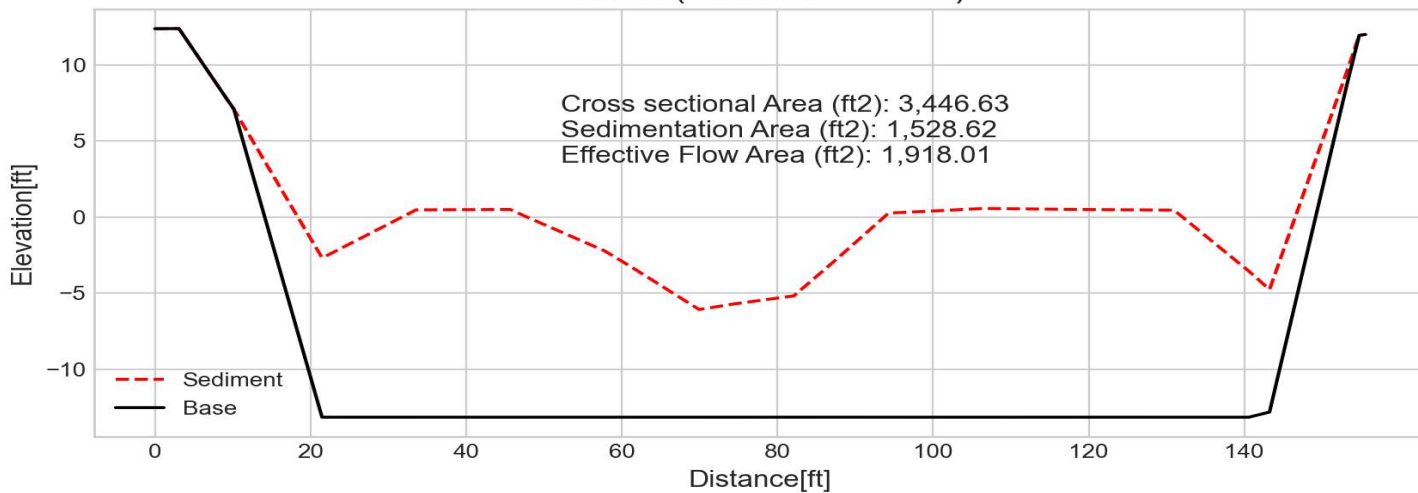
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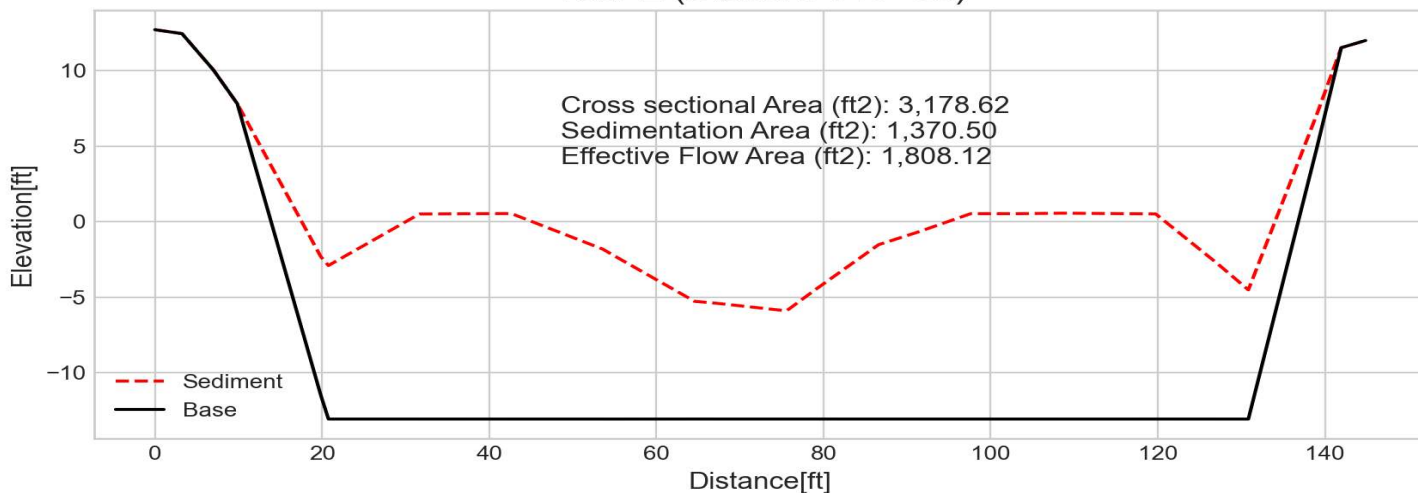
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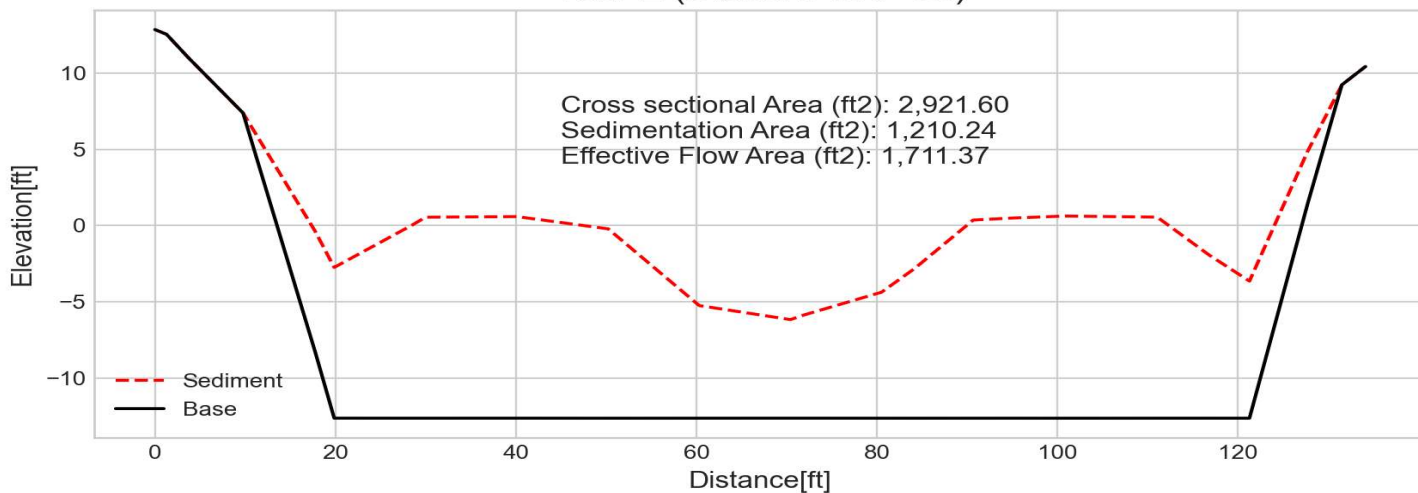
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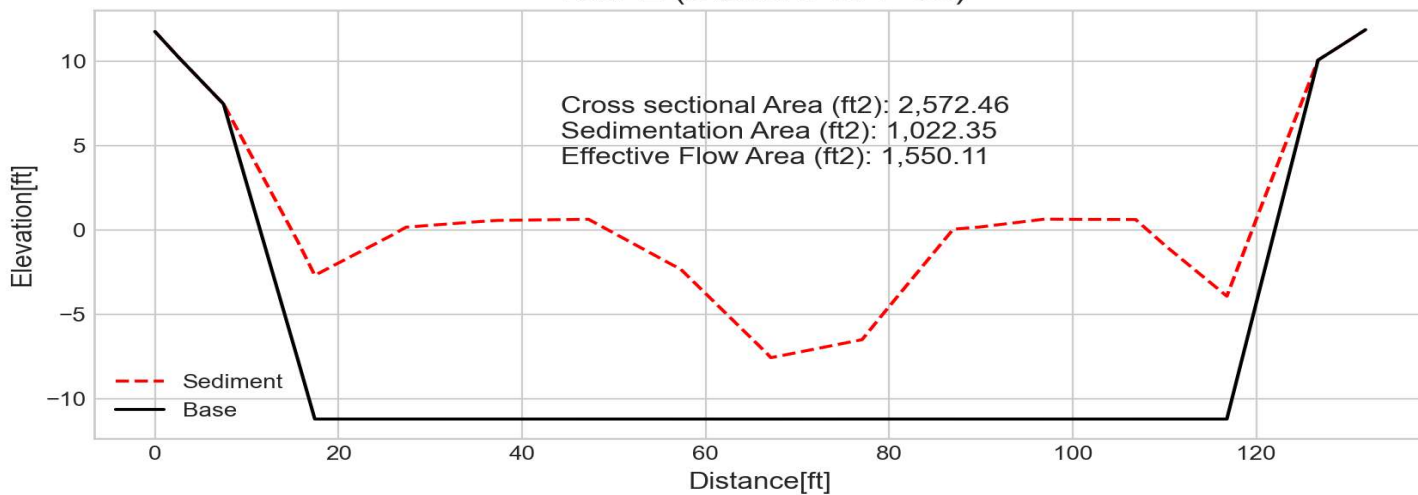
Year 2 (Station: 149+00)



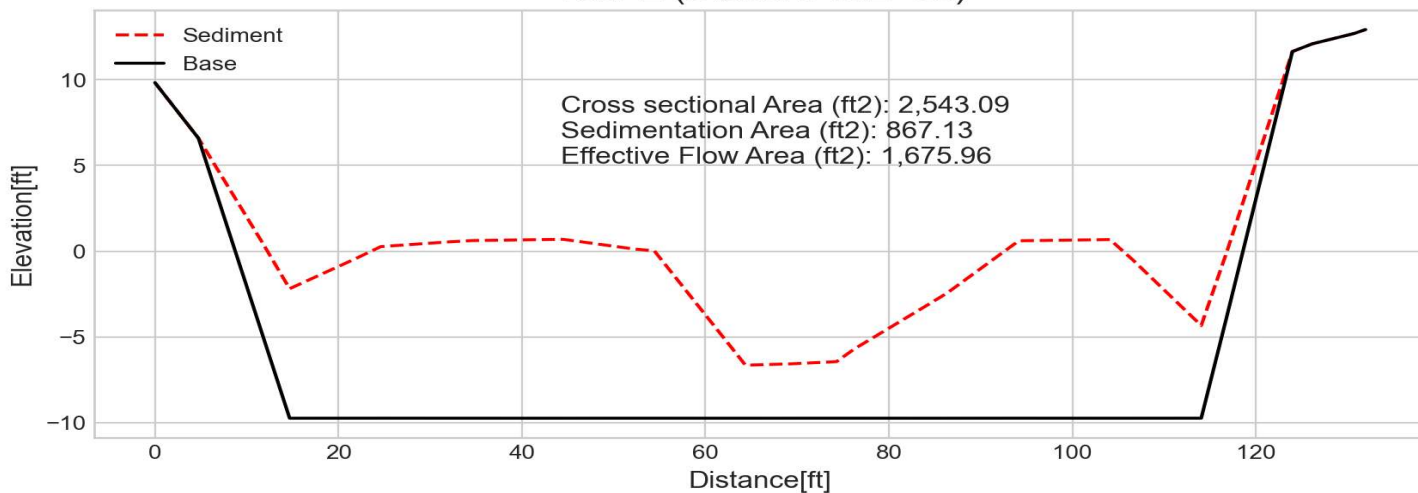
Year 2 (Station: 150+00)



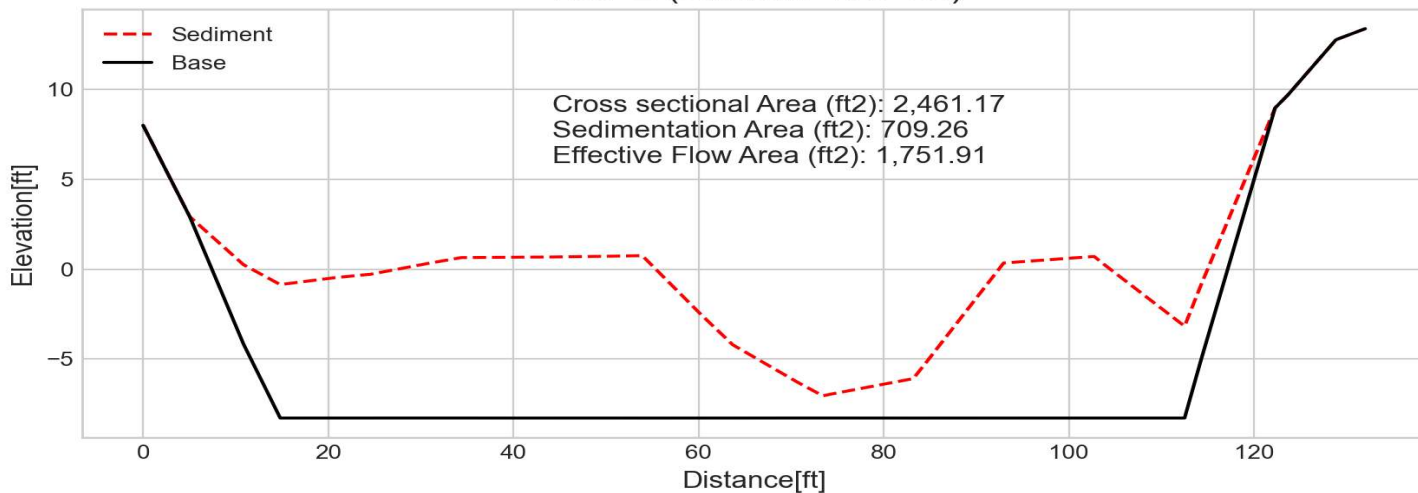
Year 2 (Station: 151+00)



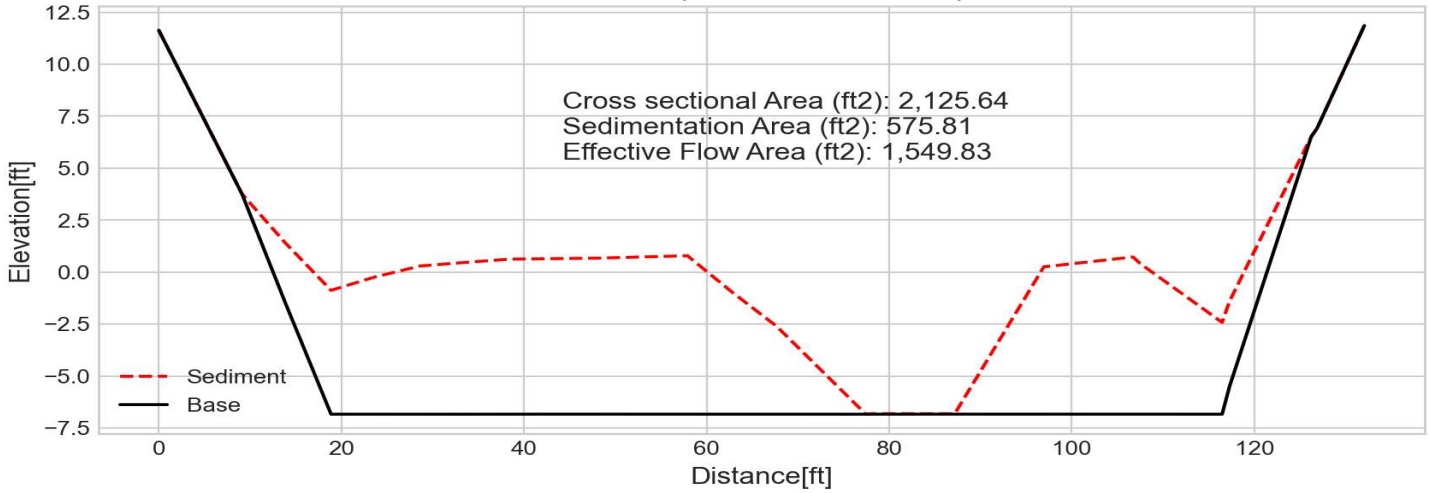
Year 2 (Station: 152+00)



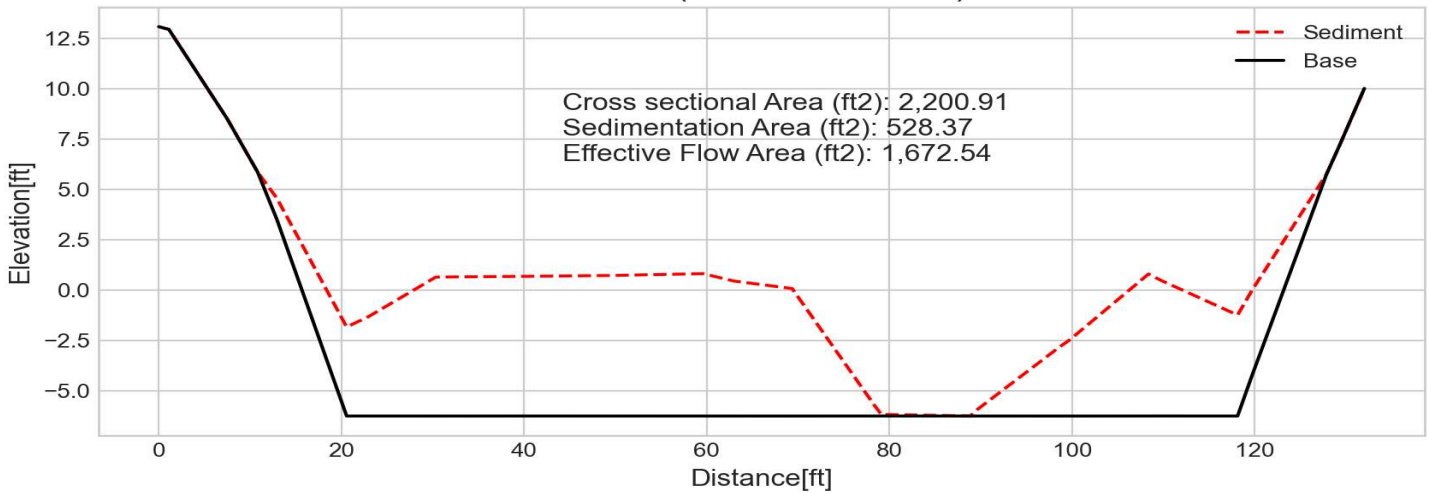
Year 2 (Station: 153+00)



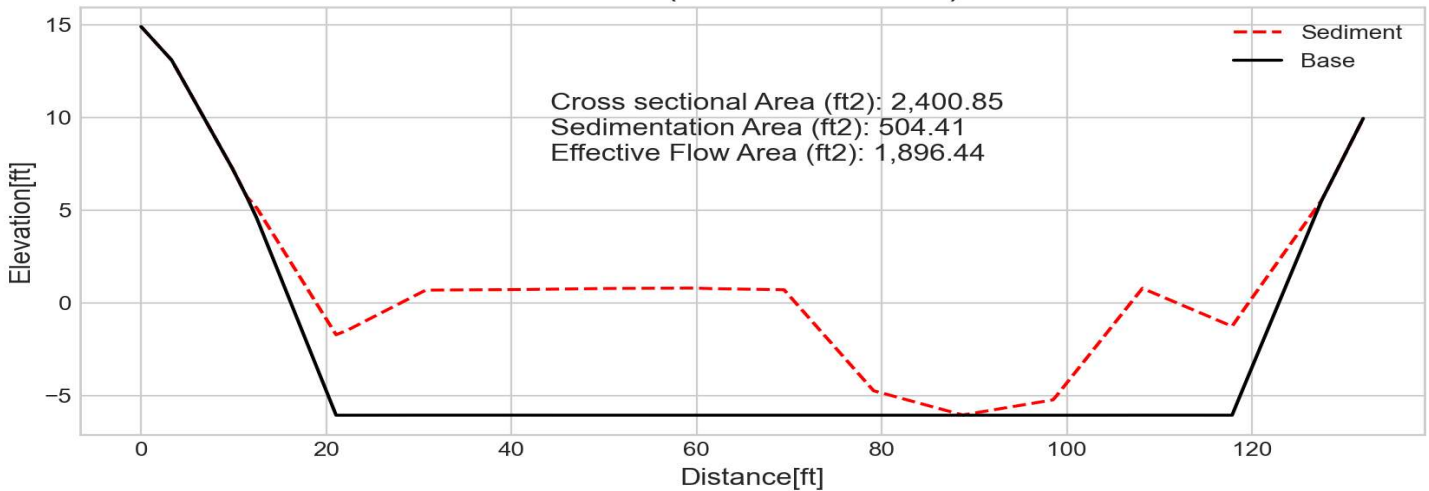
Year 2 (Station: 154+00)



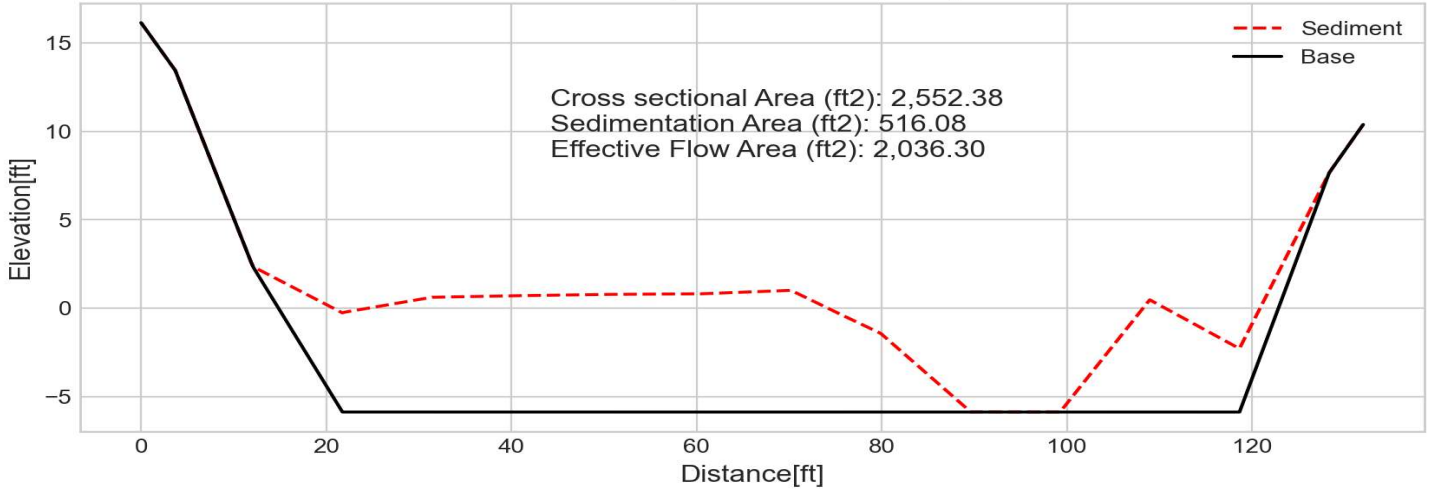
Year 2 (Station: 155+00)



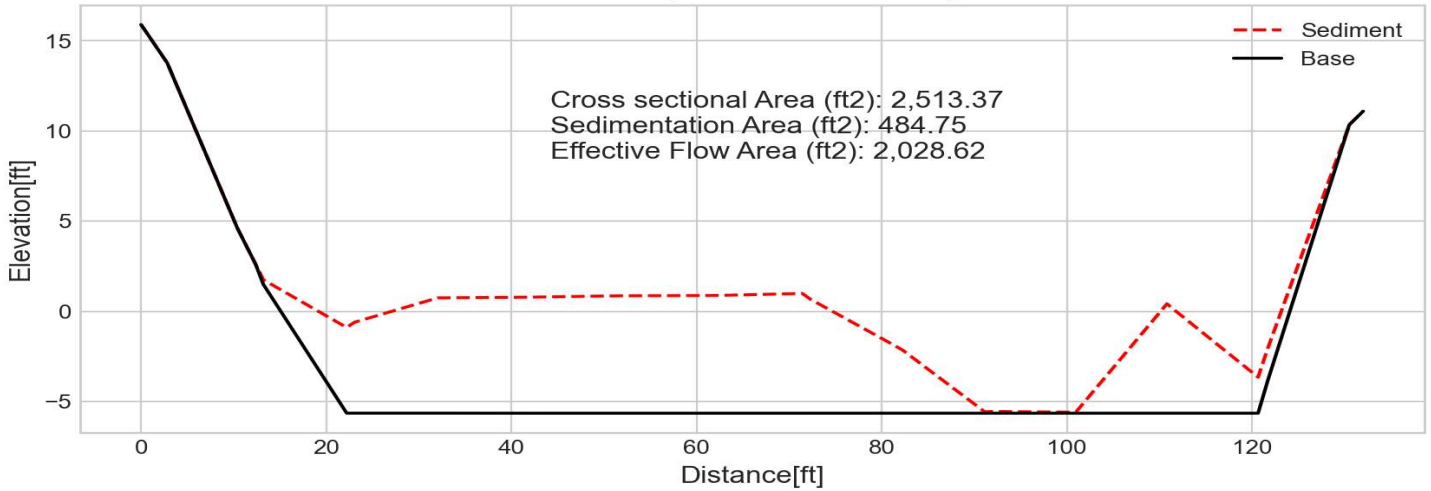
Year 2 (Station: 156+00)



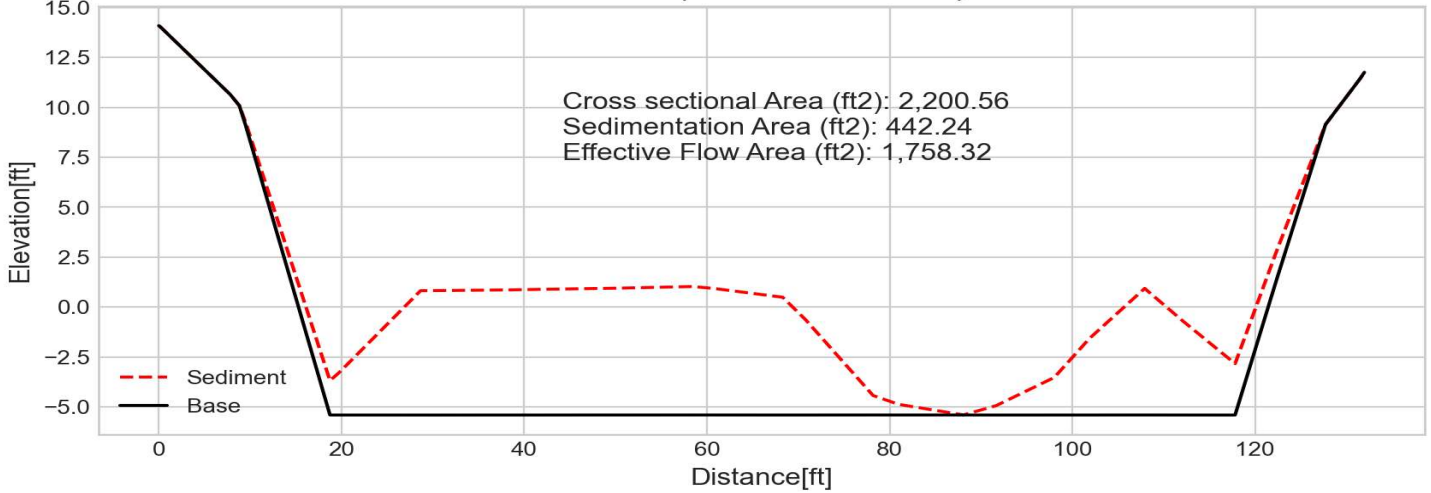
Year 2 (Station: 157+00)



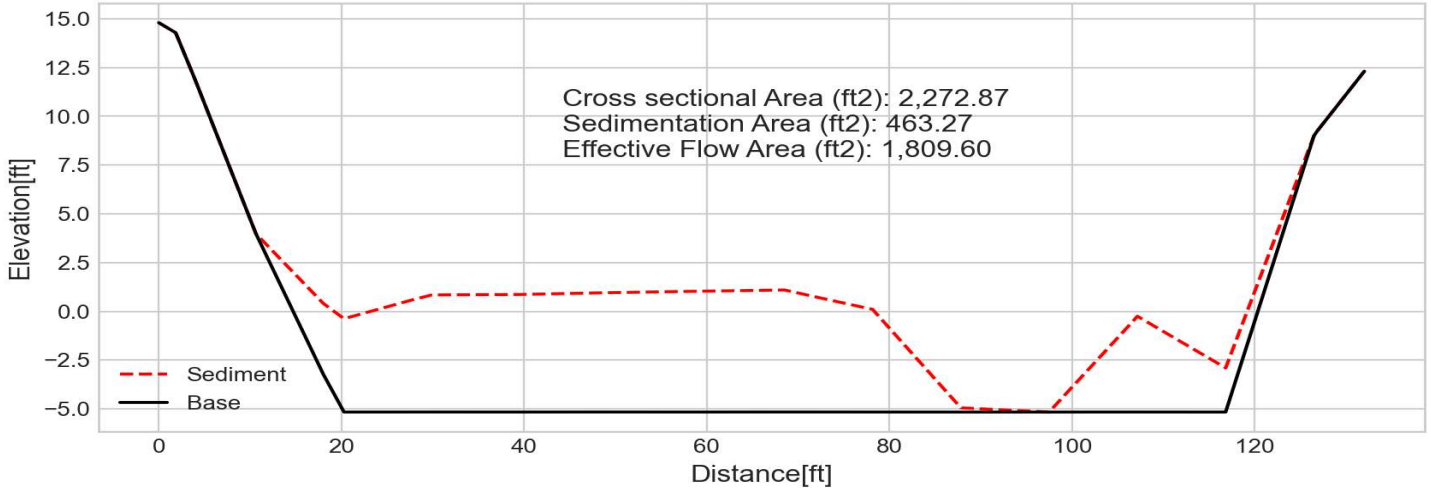
Year 2 (Station: 158+00)



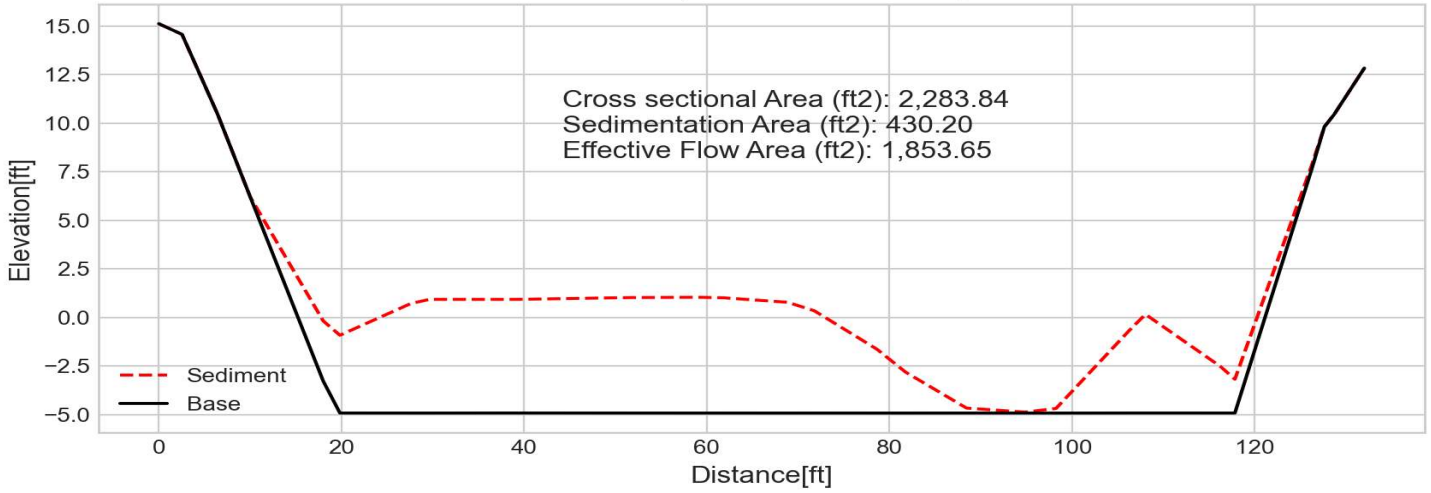
Year 2 (Station: 159+00)



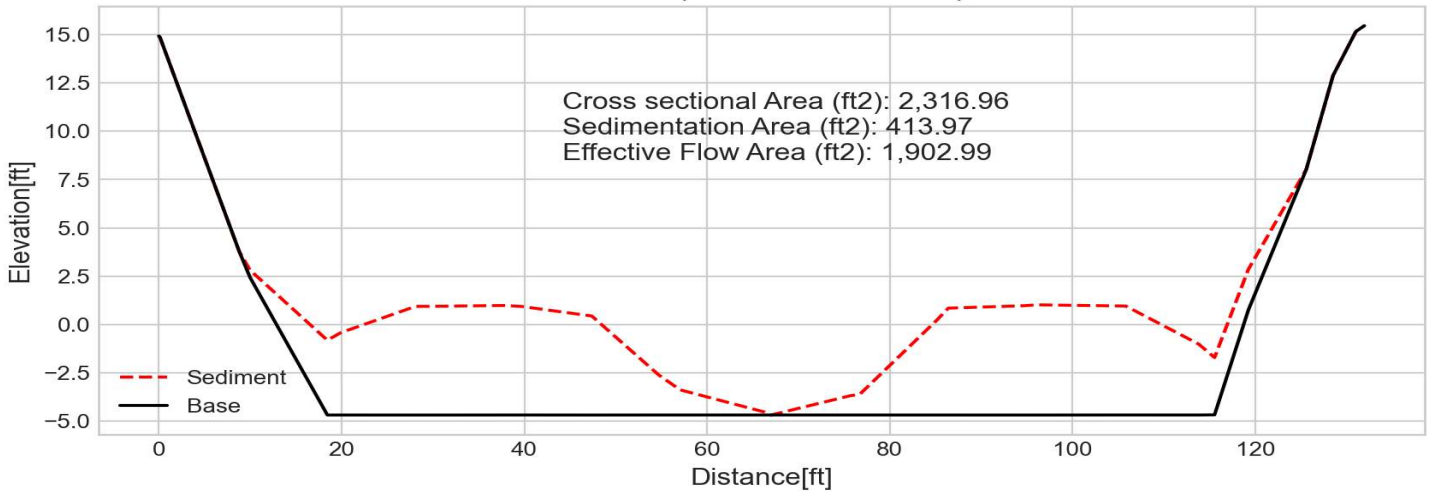
Year 2 (Station: 160+00)



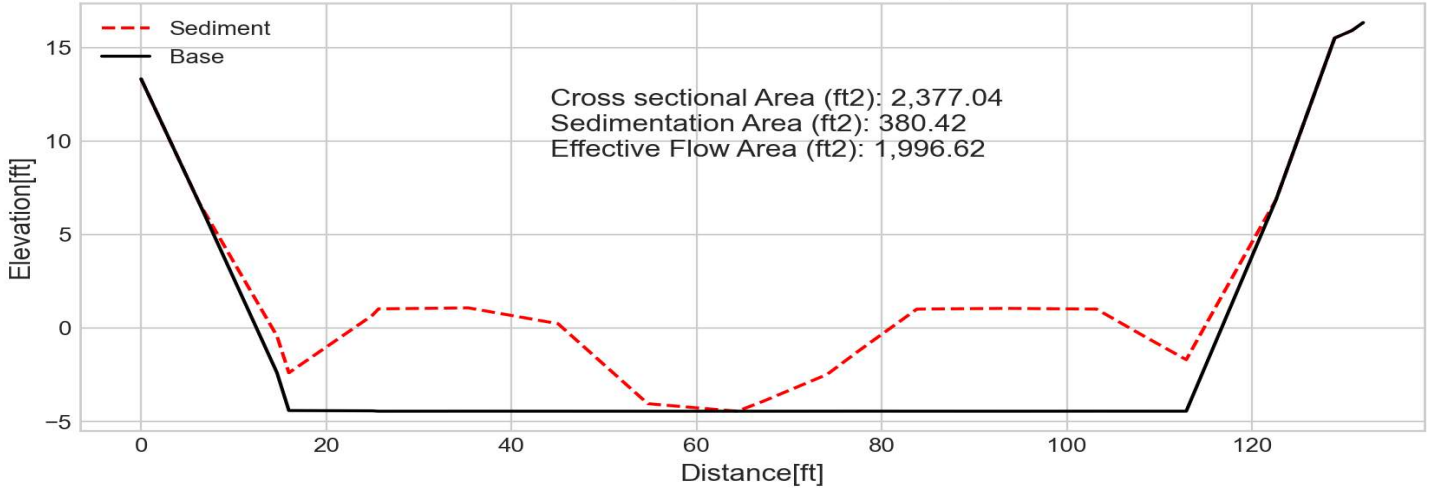
Year 2 (Station: 161+00)



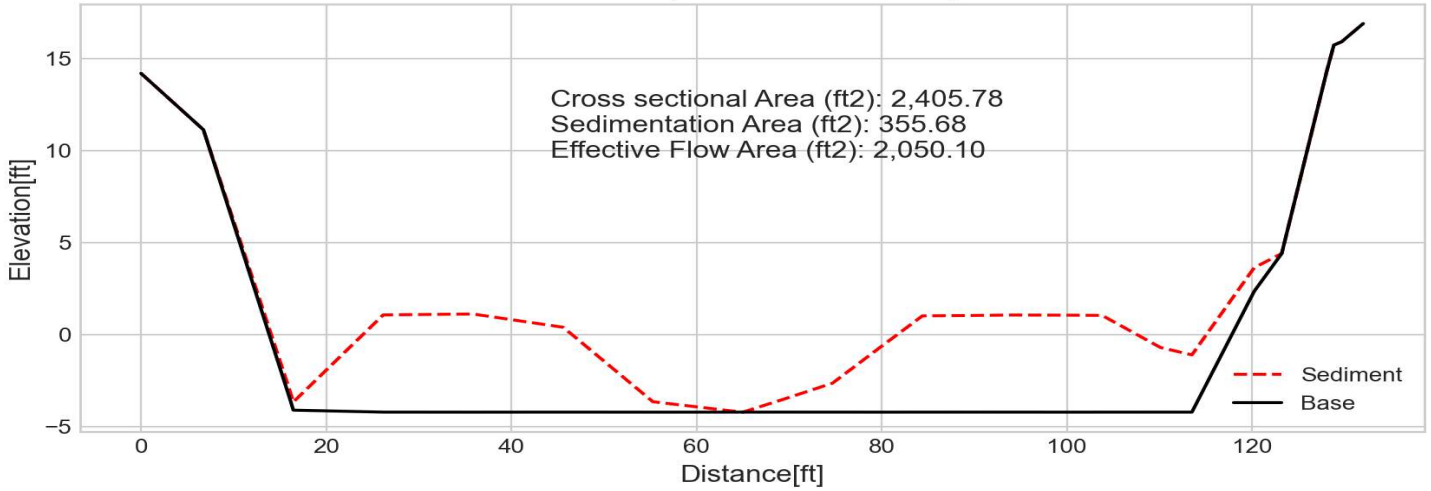
Year 2 (Station: 162+00)



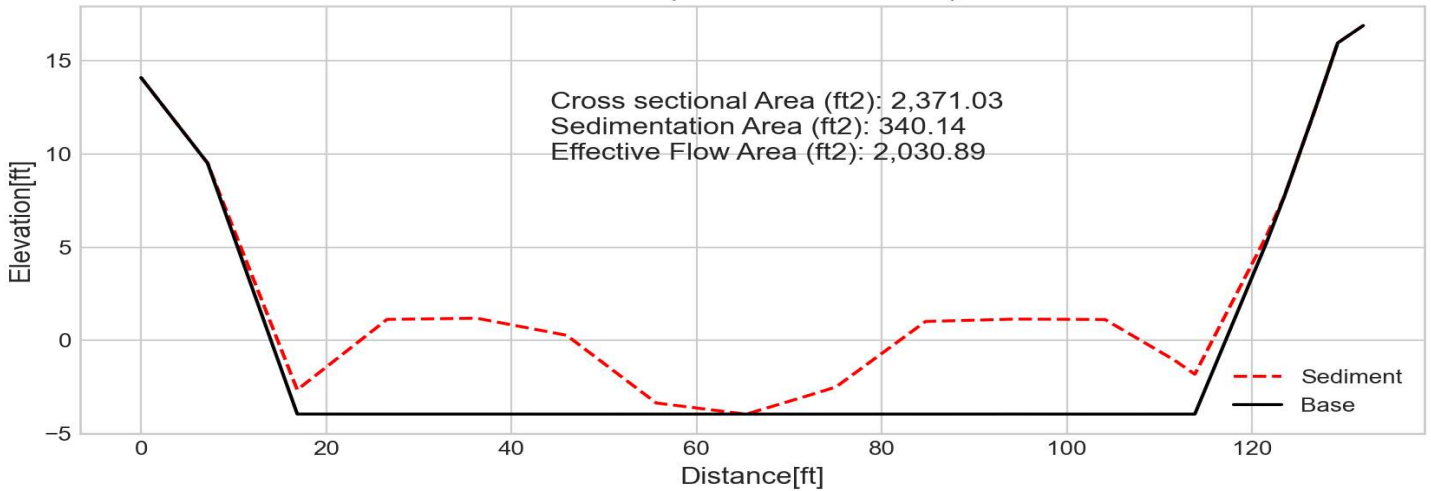
Year 2 (Station: 163+00)



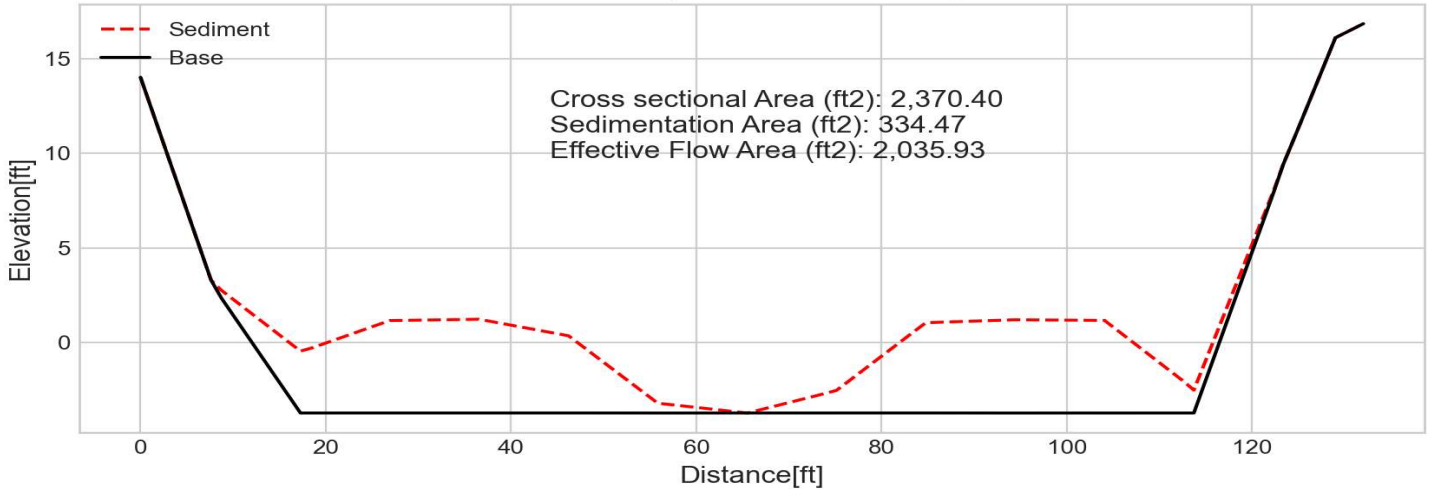
Year 2 (Station: 164+00)



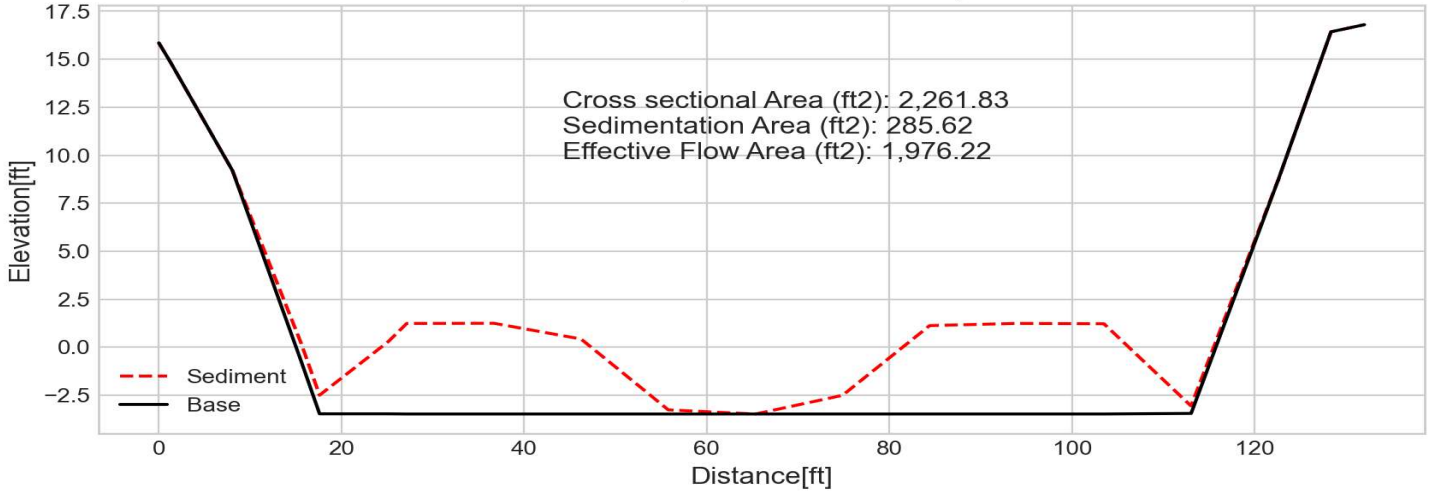
Year 2 (Station: 165+00)



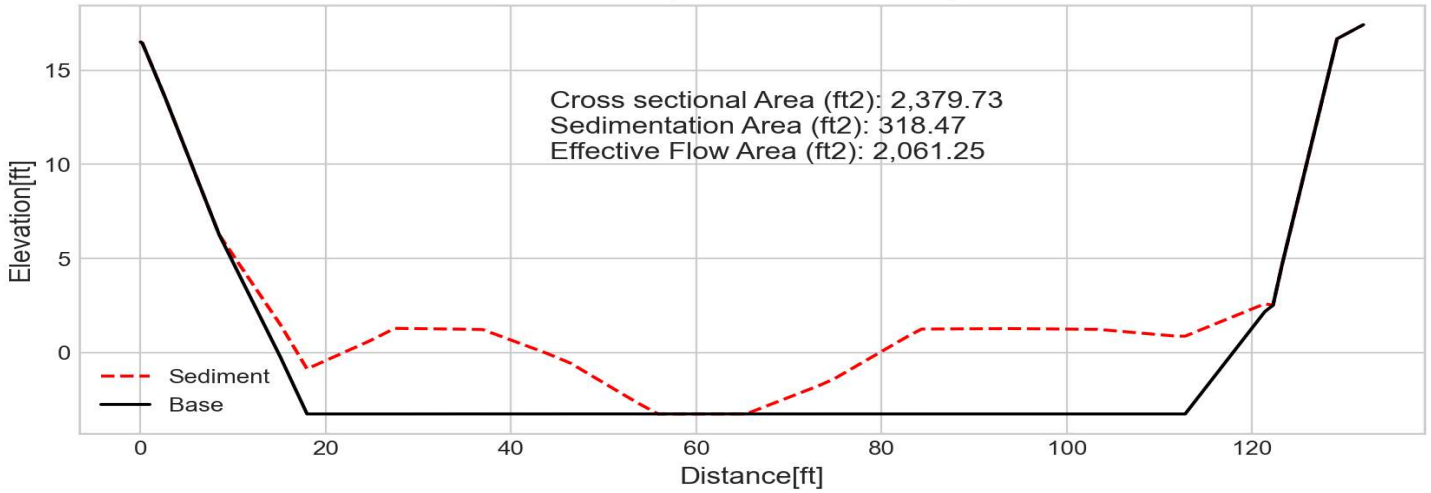
Year 2 (Station: 166+00)



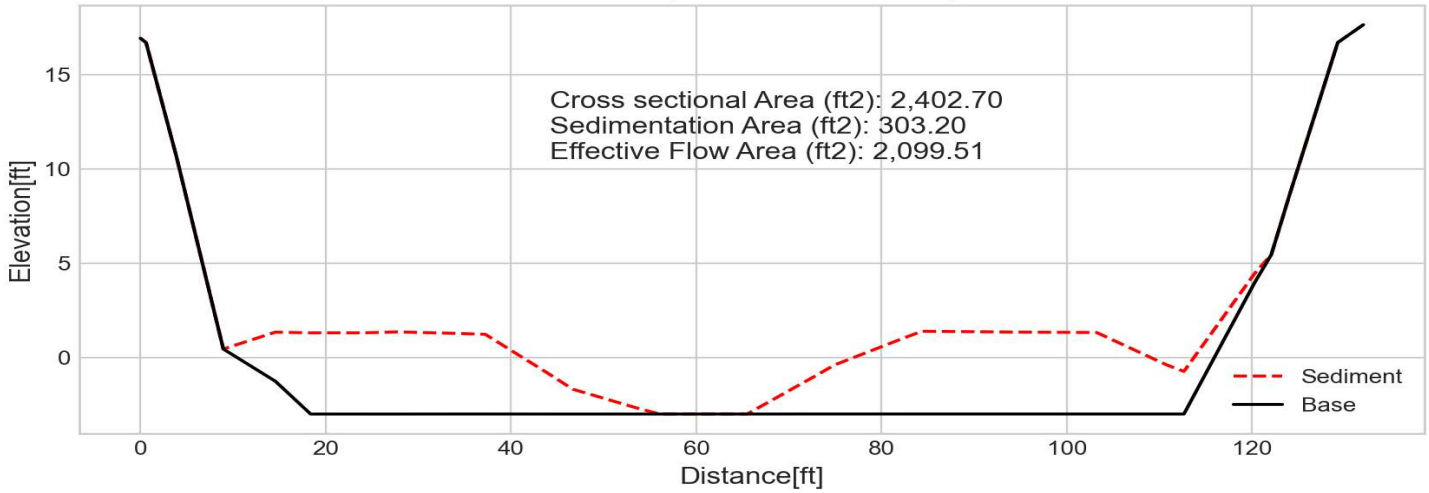
Year 2 (Station: 167+00)



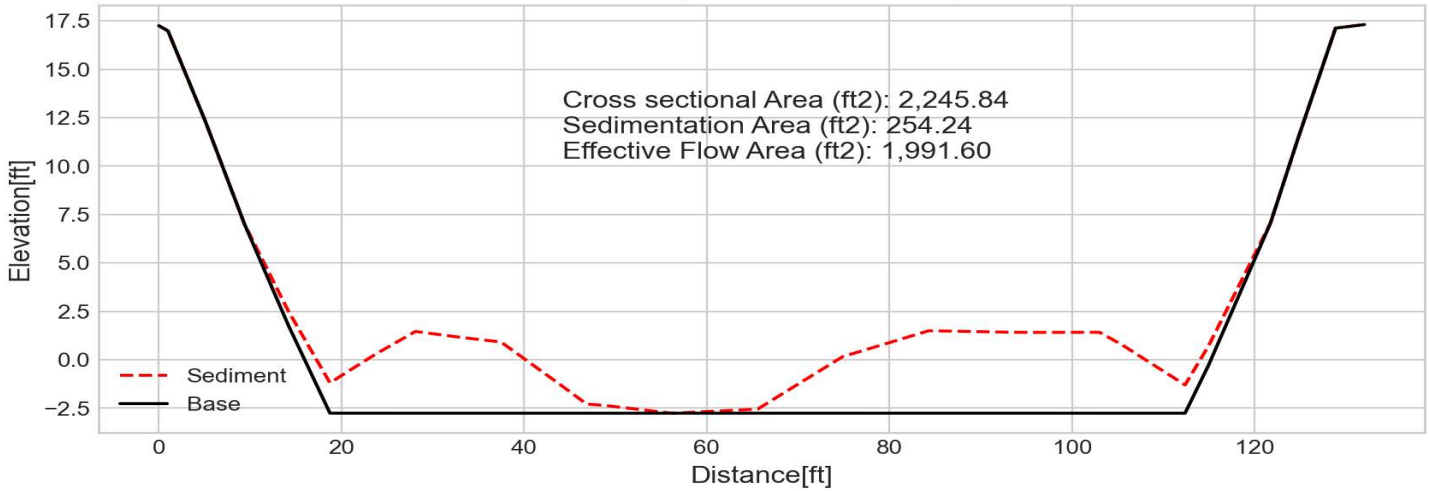
Year 2 (Station: 168+00)



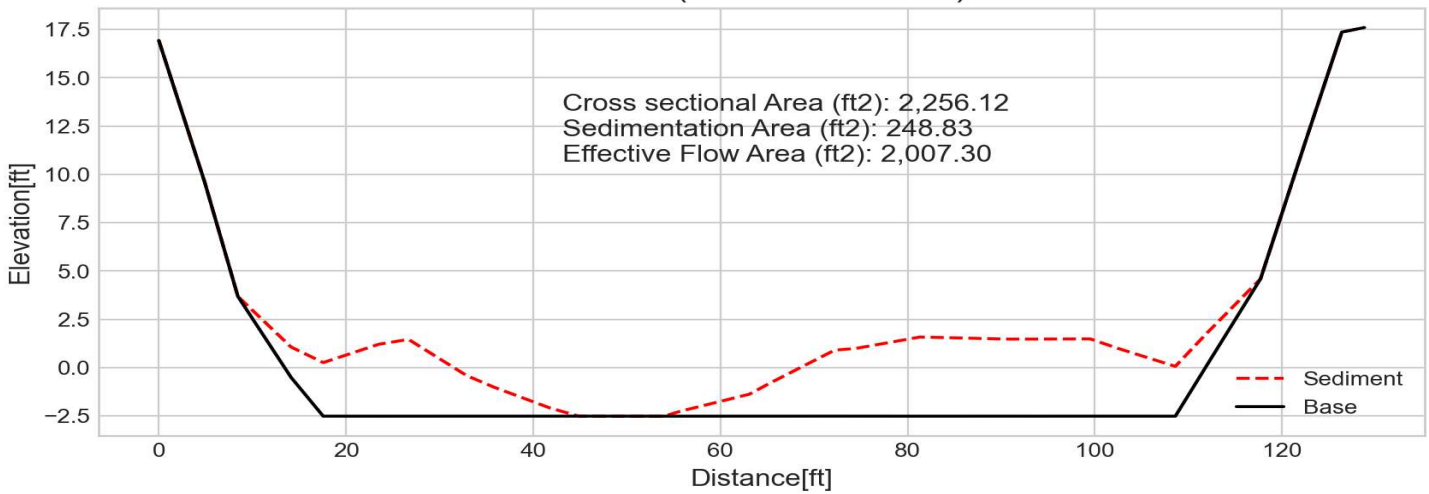
Year 2 (Station: 169+00)



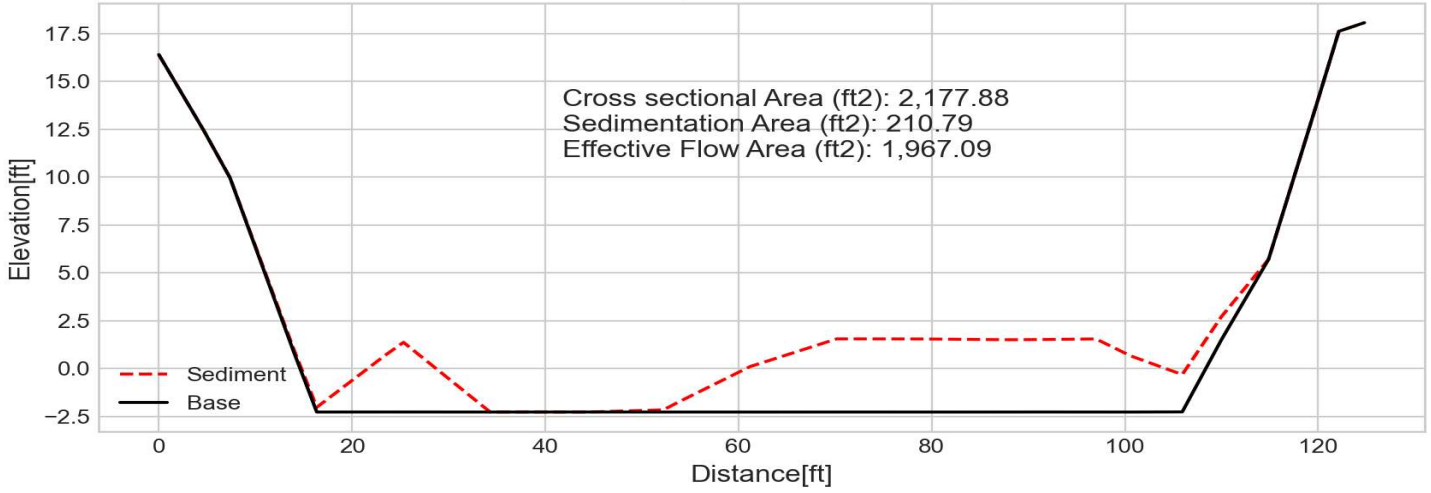
Year 2 (Station: 170+00)



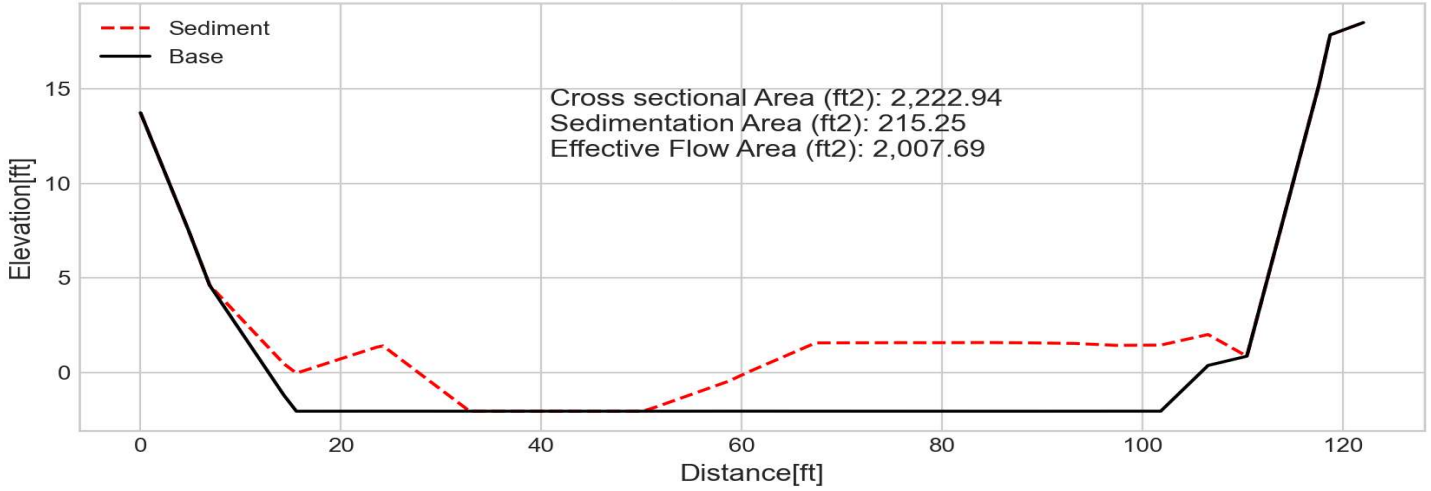
Year 2 (Station: 171+00)



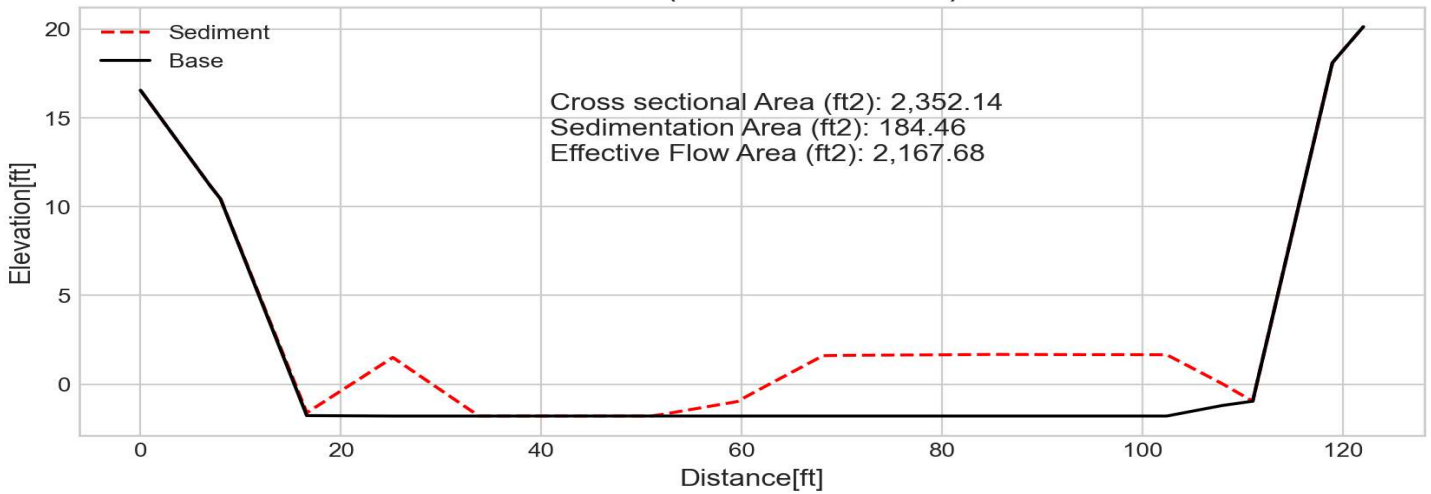
Year 2 (Station: 172+00)



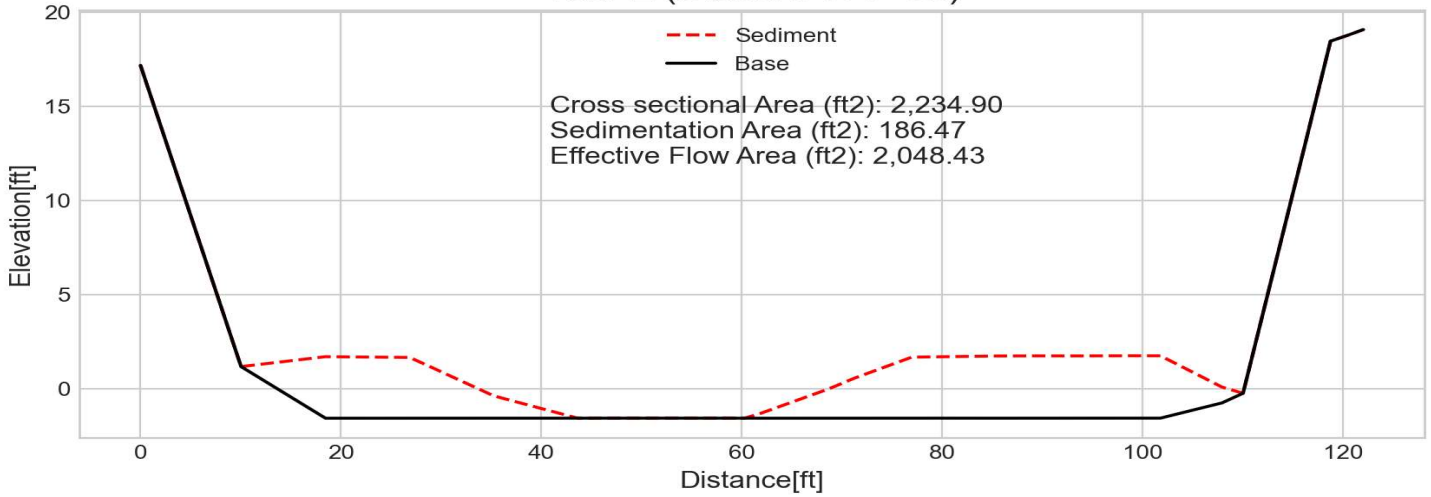
Year 2 (Station: 173+00)



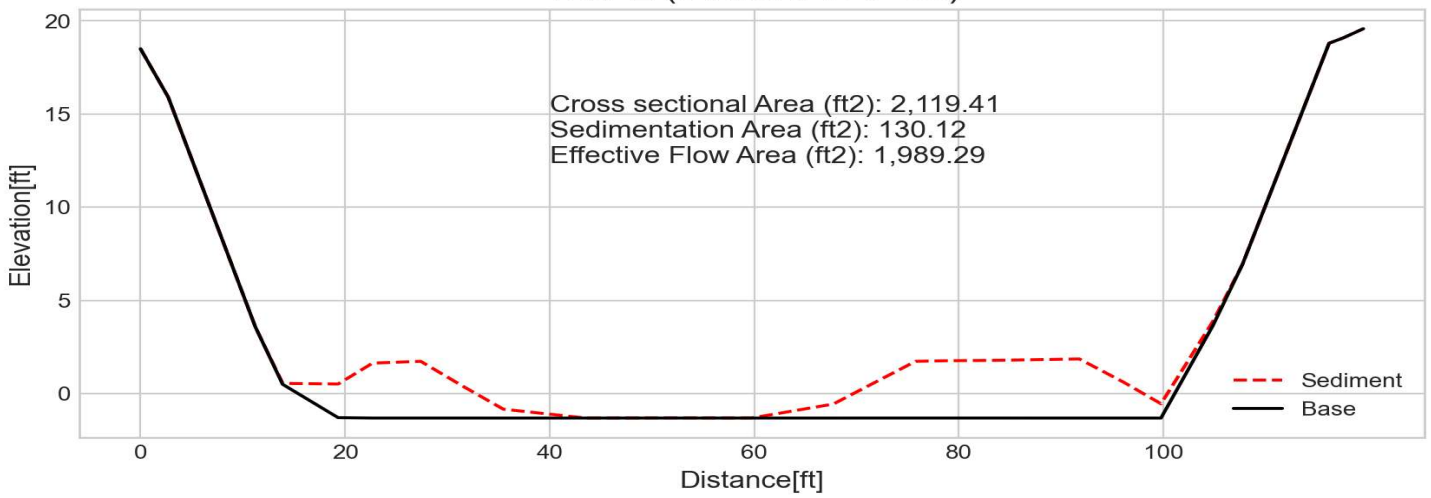
Year 2 (Station: 174+00)



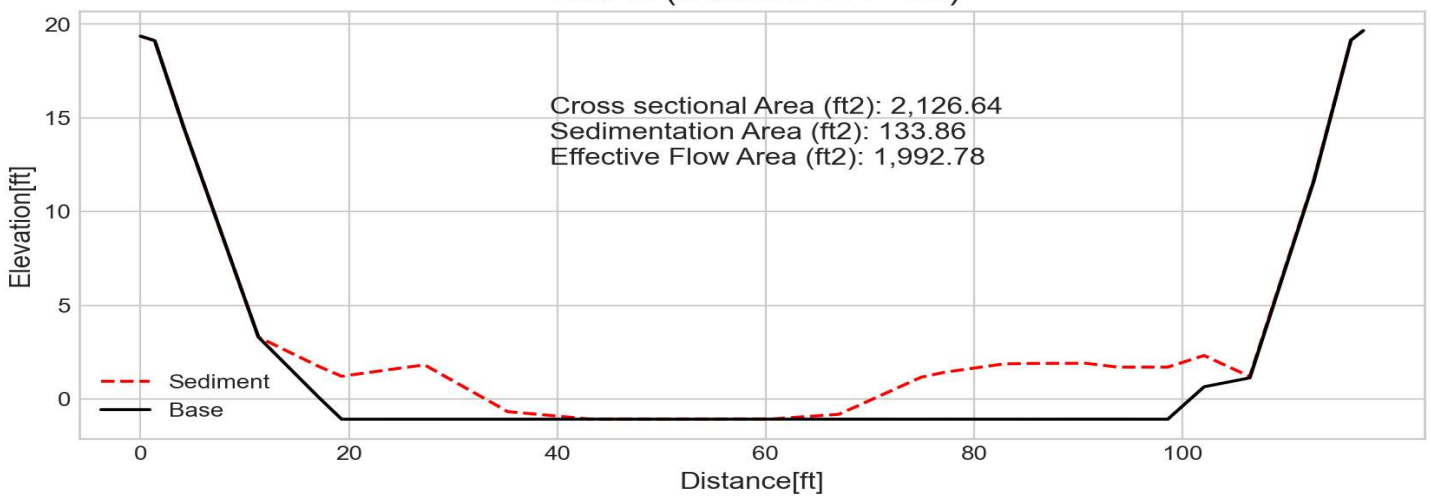
Year 2 (Station: 175+00)



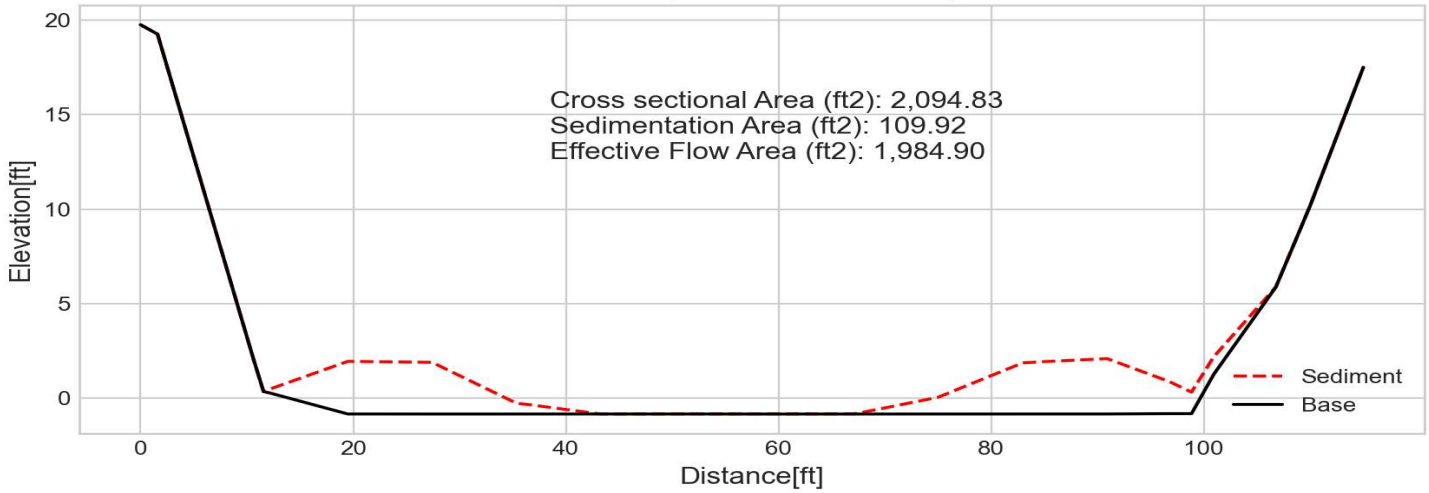
Year 2 (Station: 176+00)



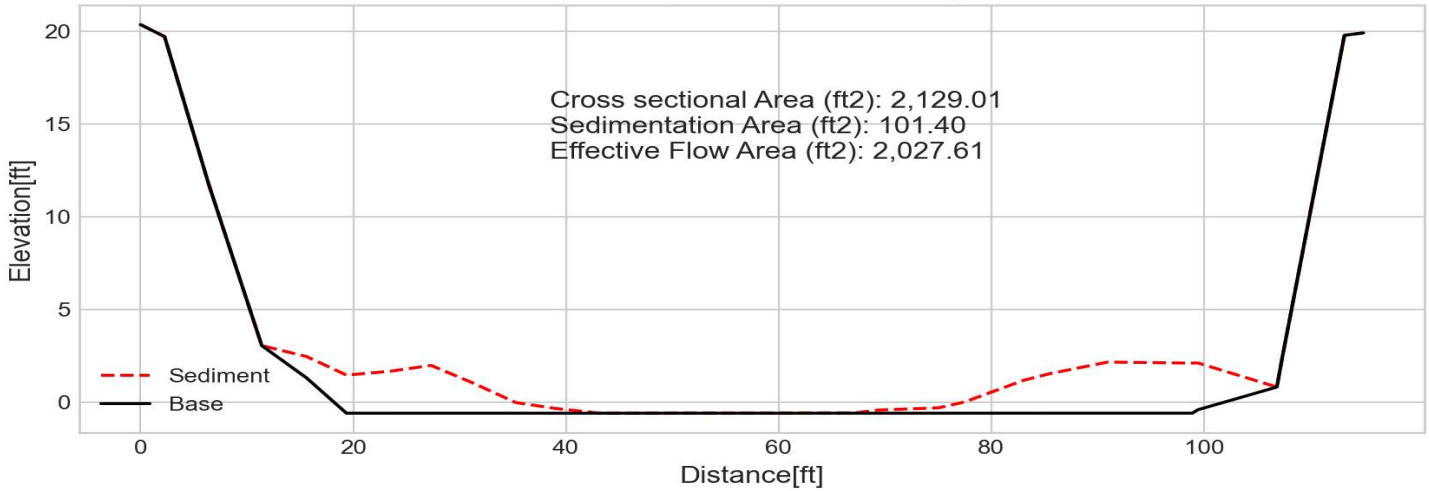
Year 2 (Station: 177+00)



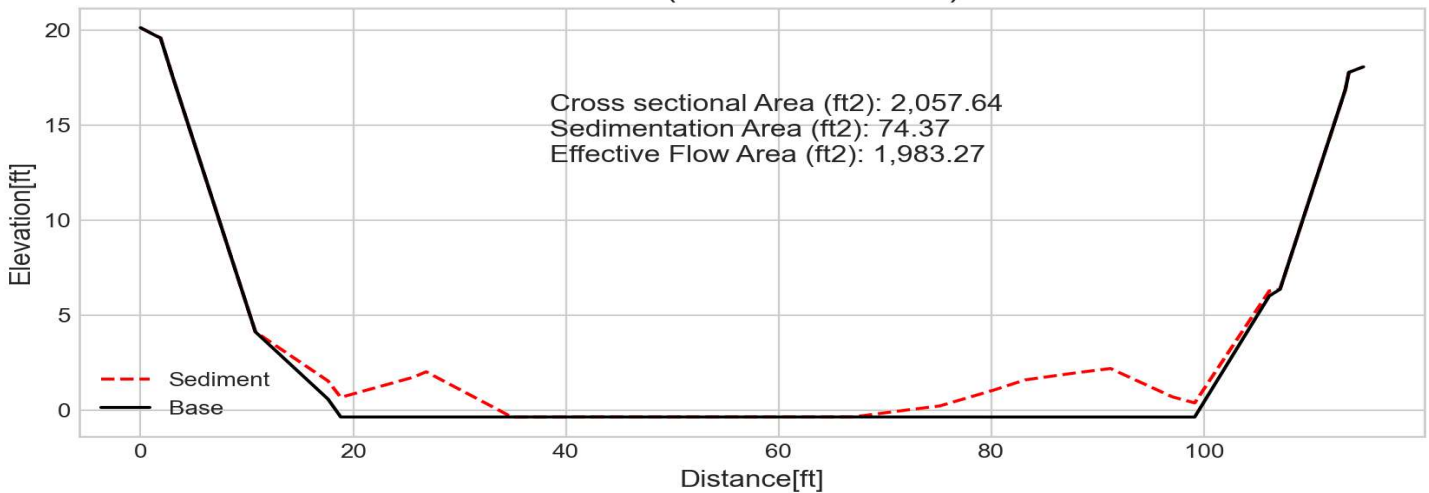
Year 2 (Station: 178+00)



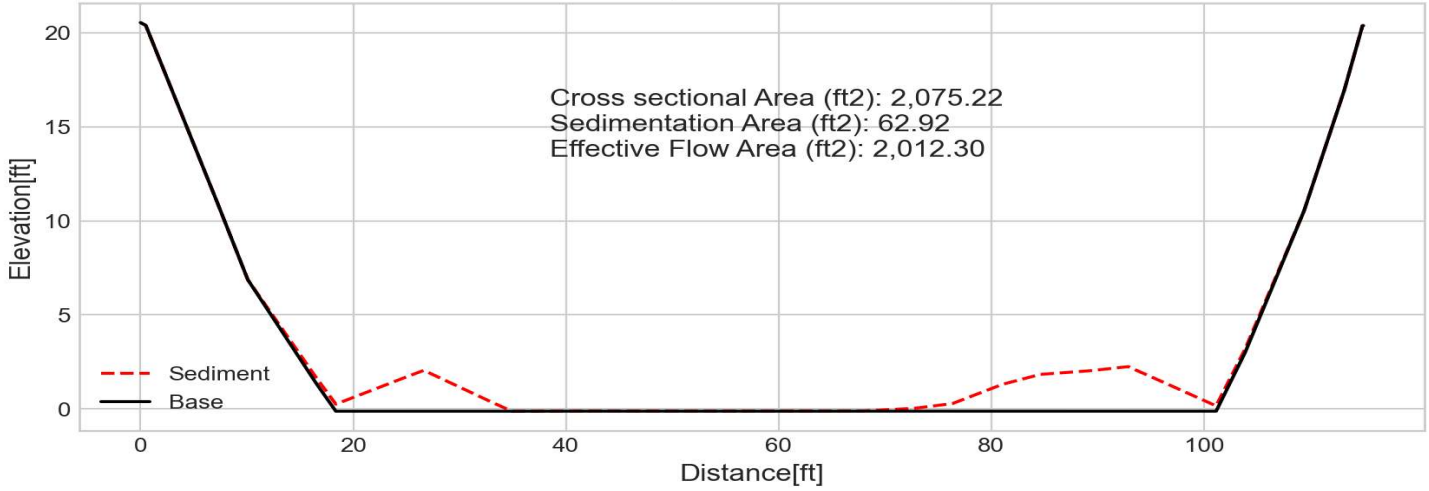
Year 2 (Station: 179+00)



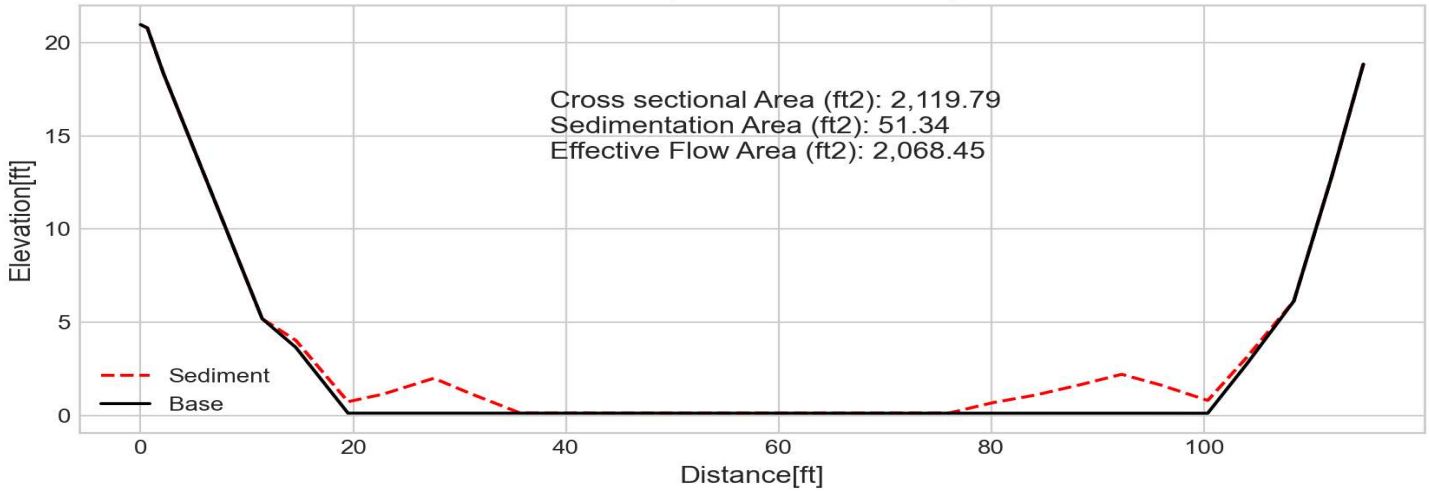
Year 2 (Station: 180+00)



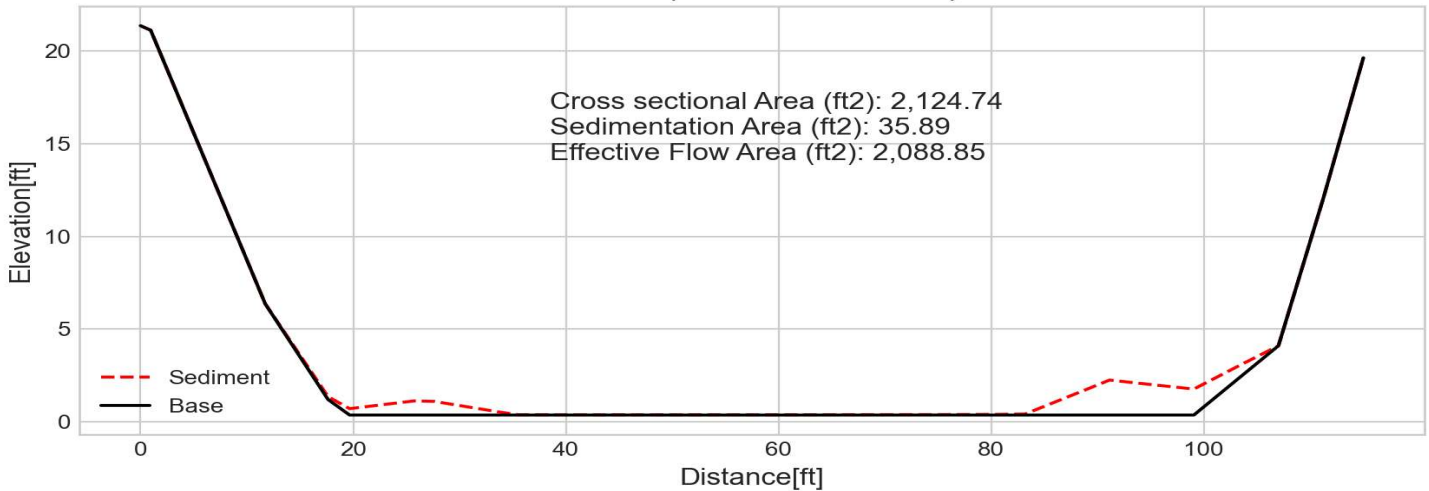
Year 2 (Station: 181+00)



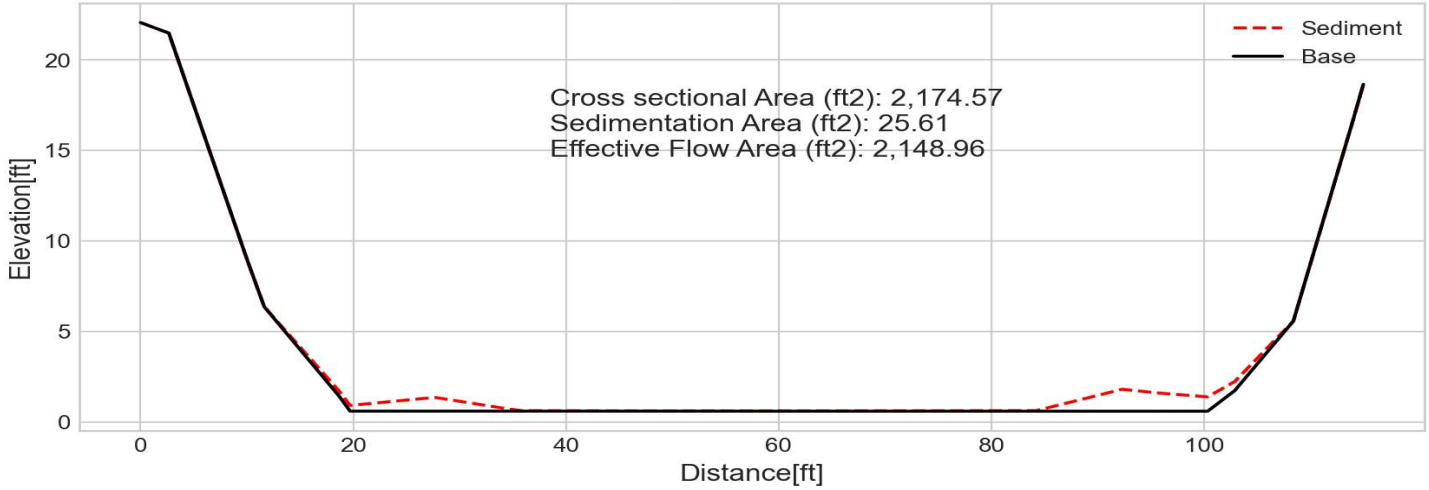
Year 2 (Station: 182+00)



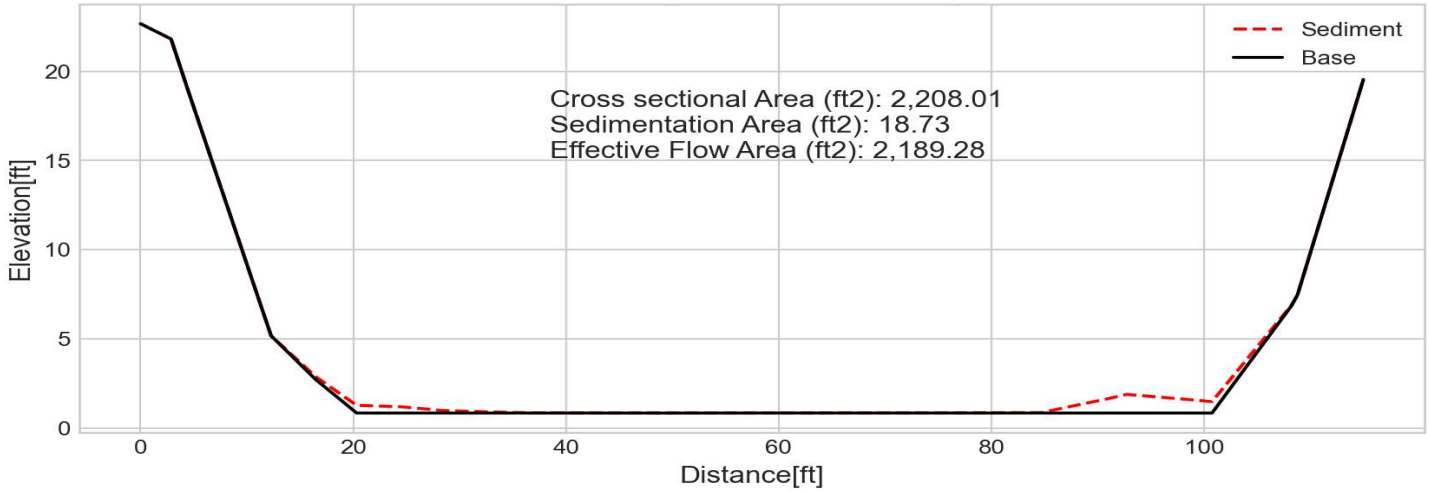
Year 2 (Station: 183+00)



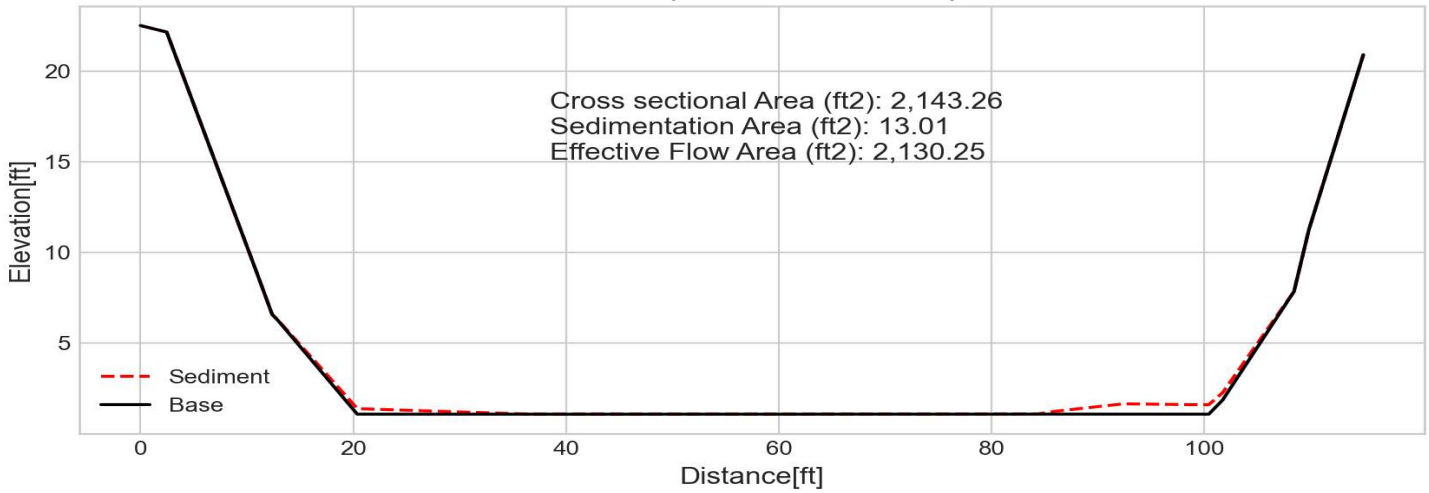
Year 2 (Station: 184+00)



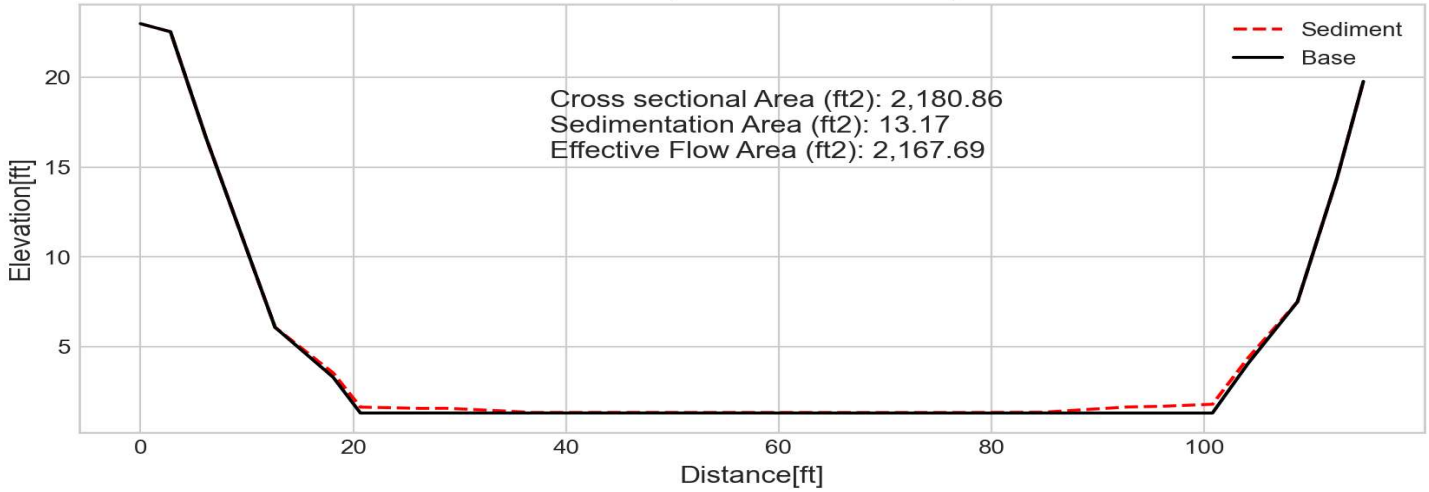
Year 2 (Station: 185+00)



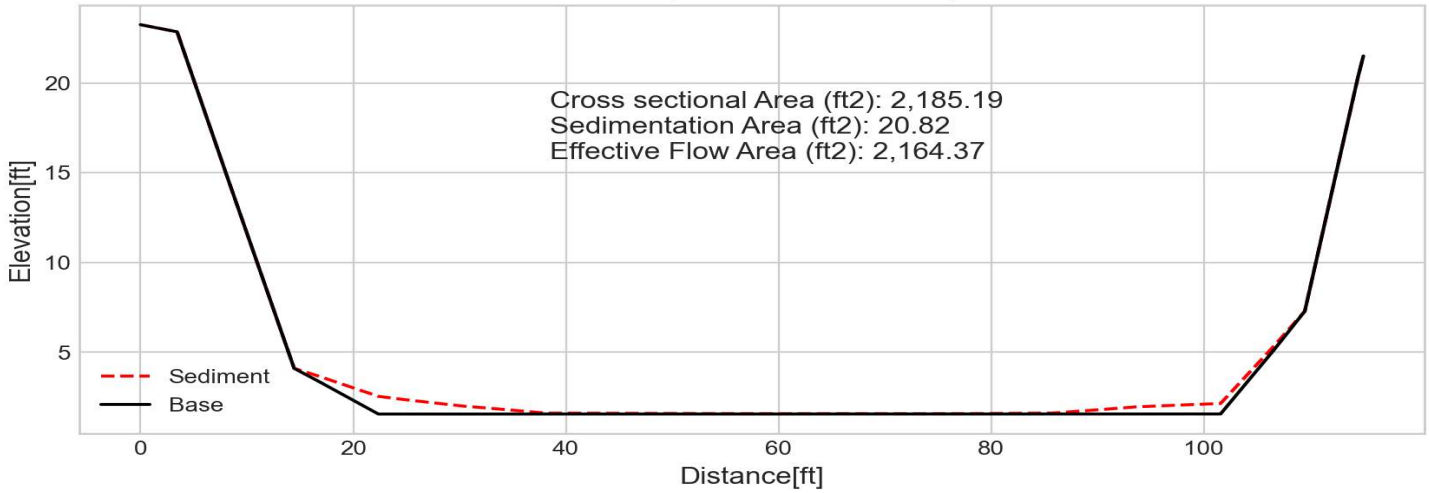
Year 2 (Station: 186+00)



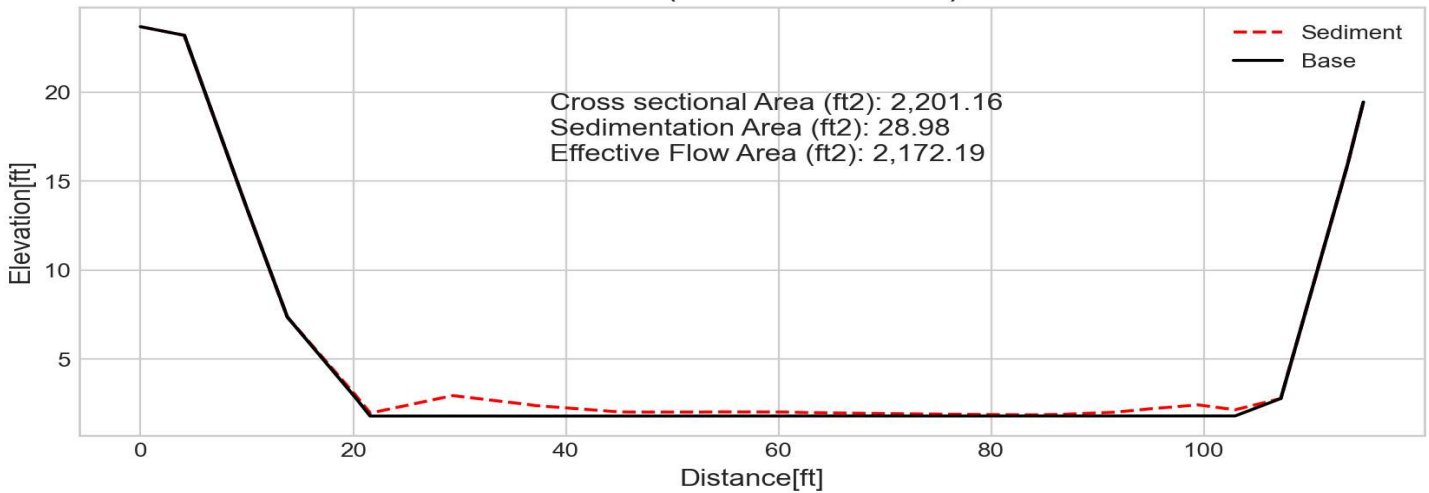
Year 2 (Station: 187+00)



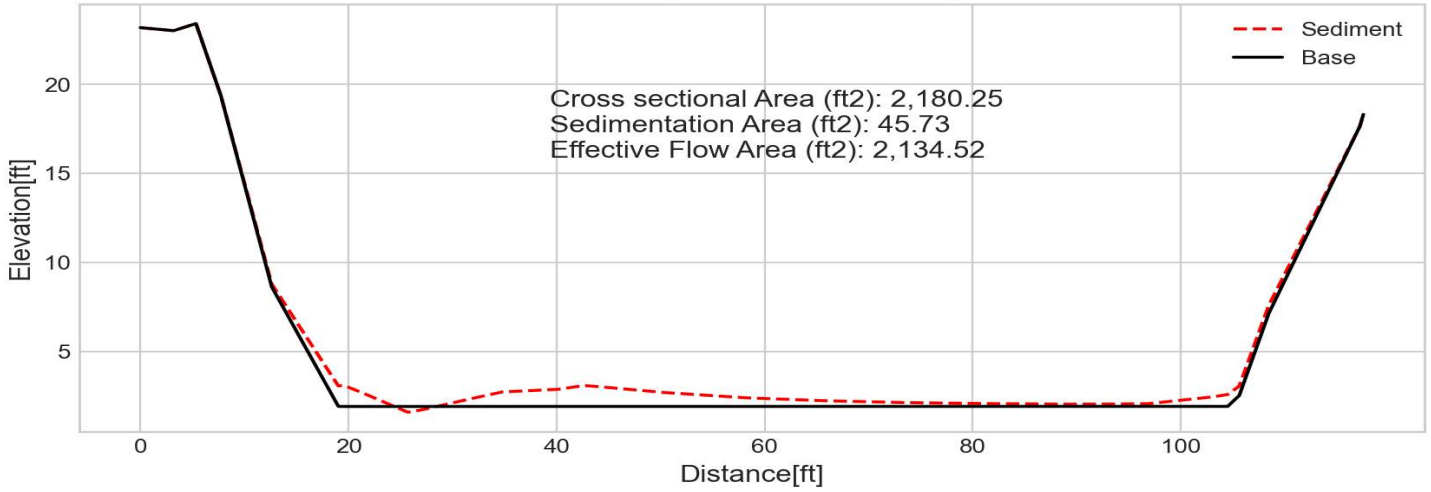
Year 2 (Station: 188+00)



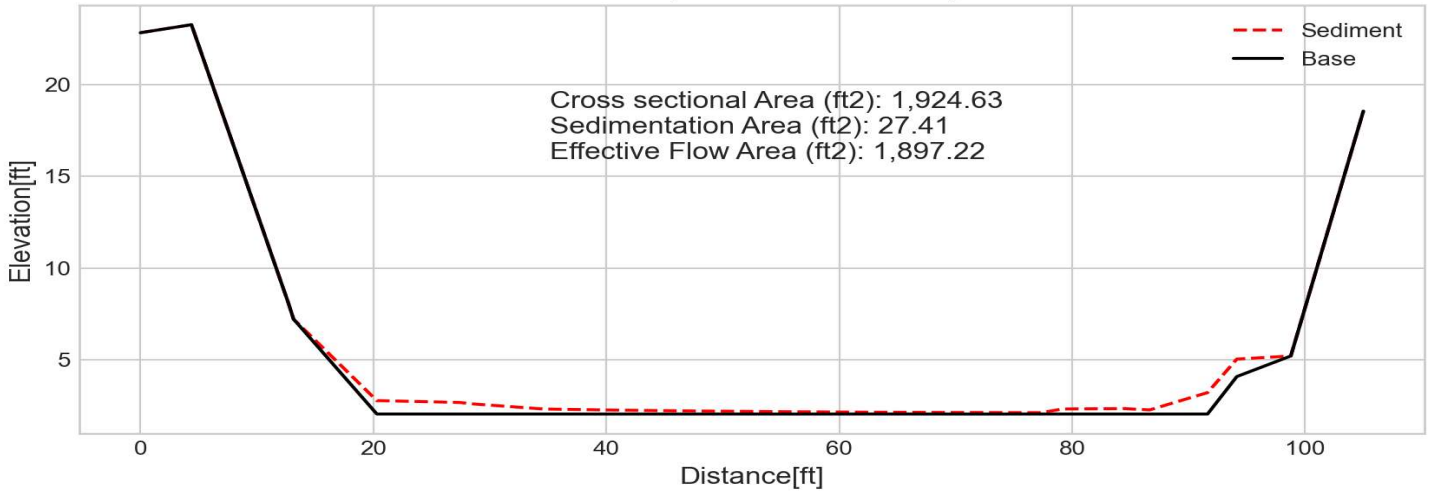
Year 2 (Station: 189+00)



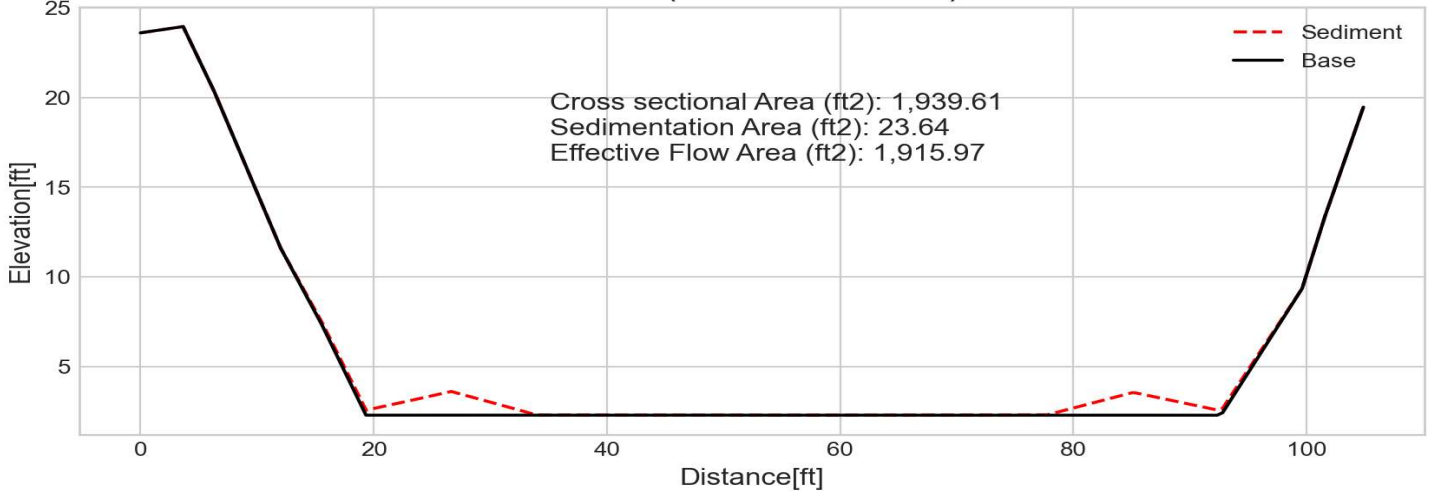
Year 2 (Station: 189+49)



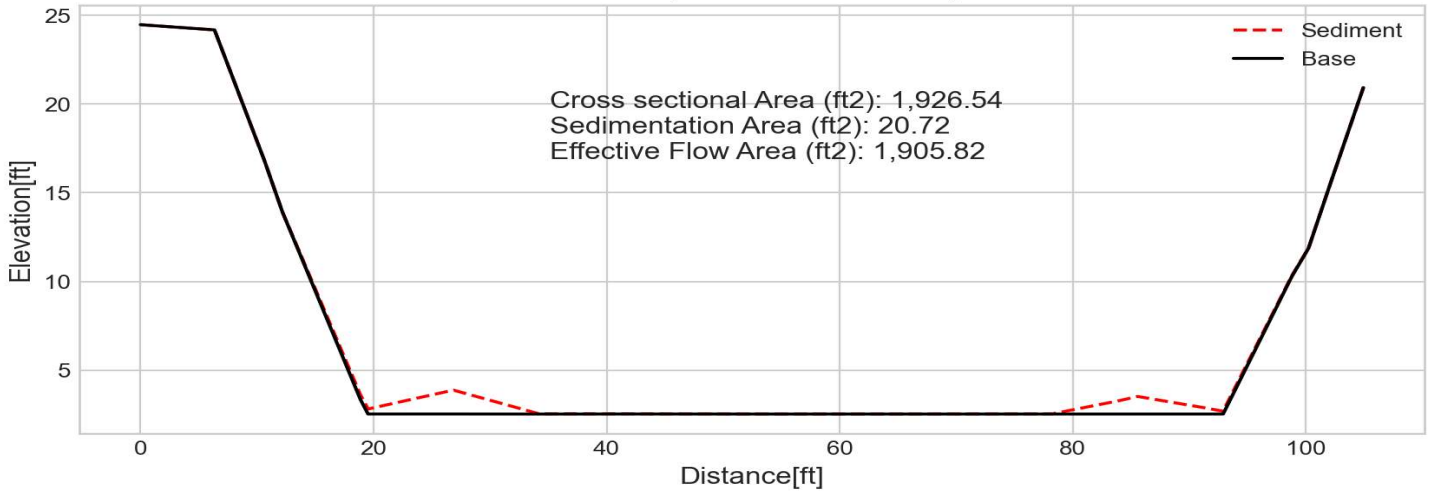
Year 2 (Station: 190+00)



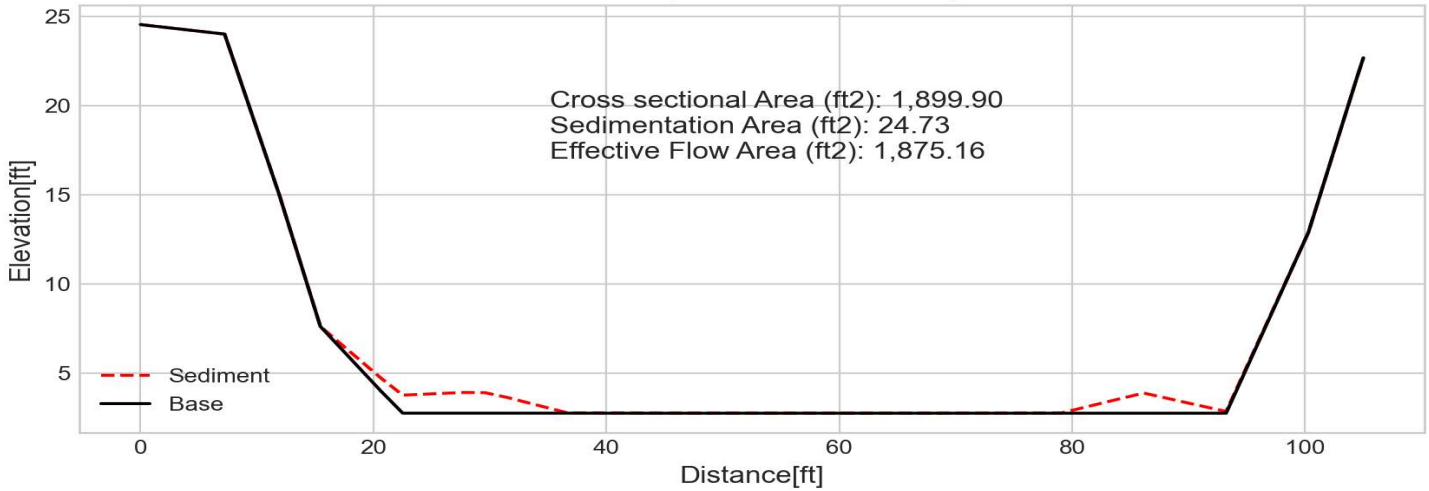
Year 2 (Station: 191+00)



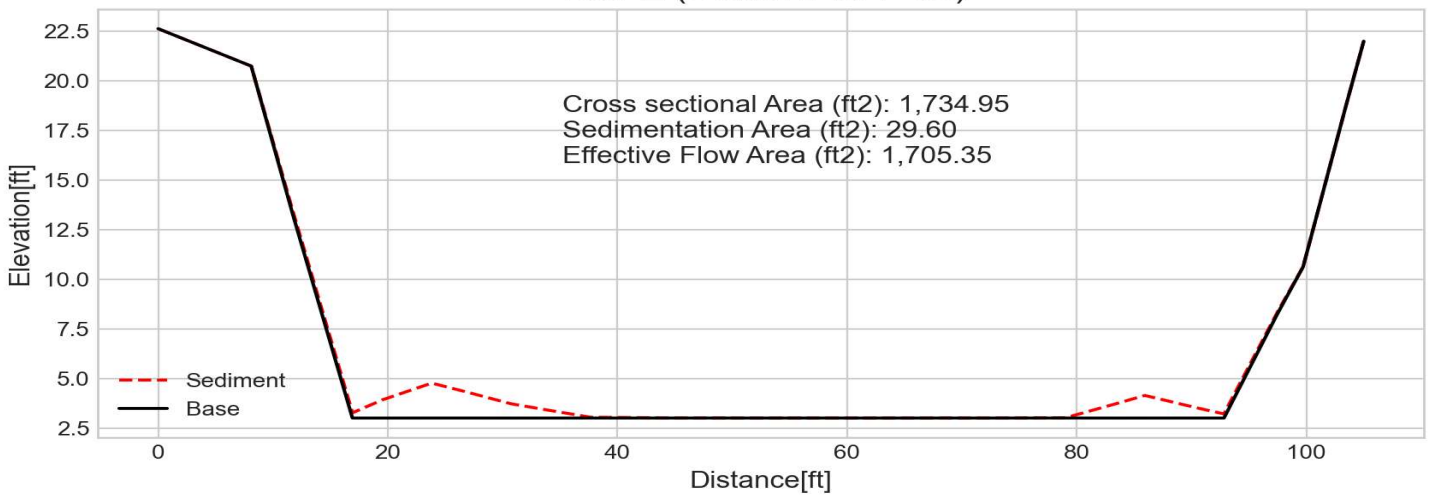
Year 2 (Station: 192+00)



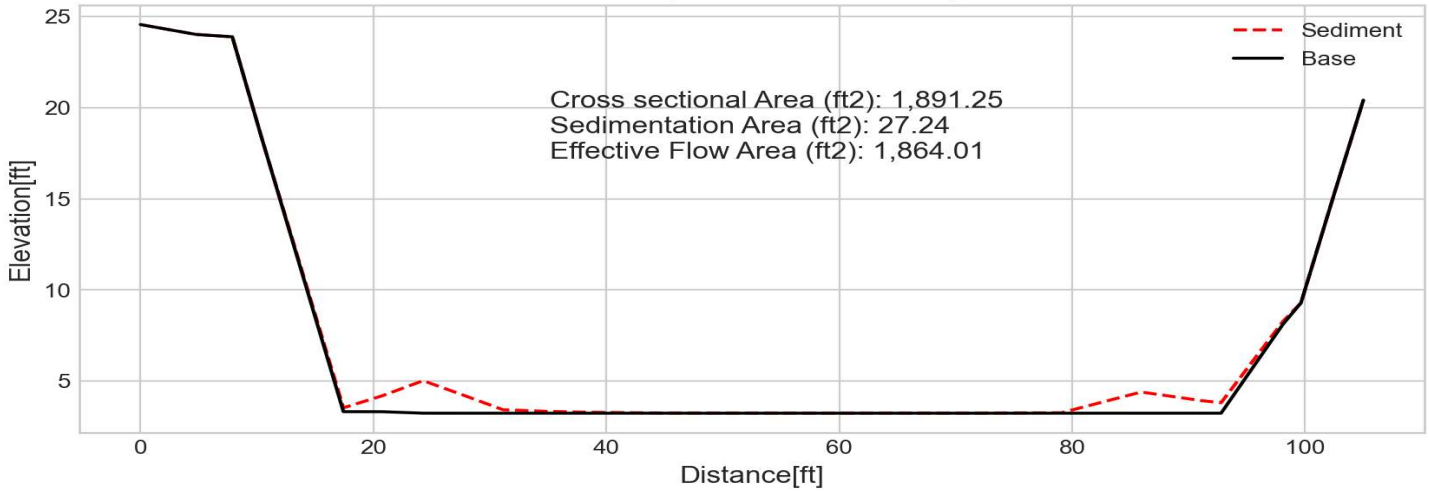
Year 2 (Station: 193+00)



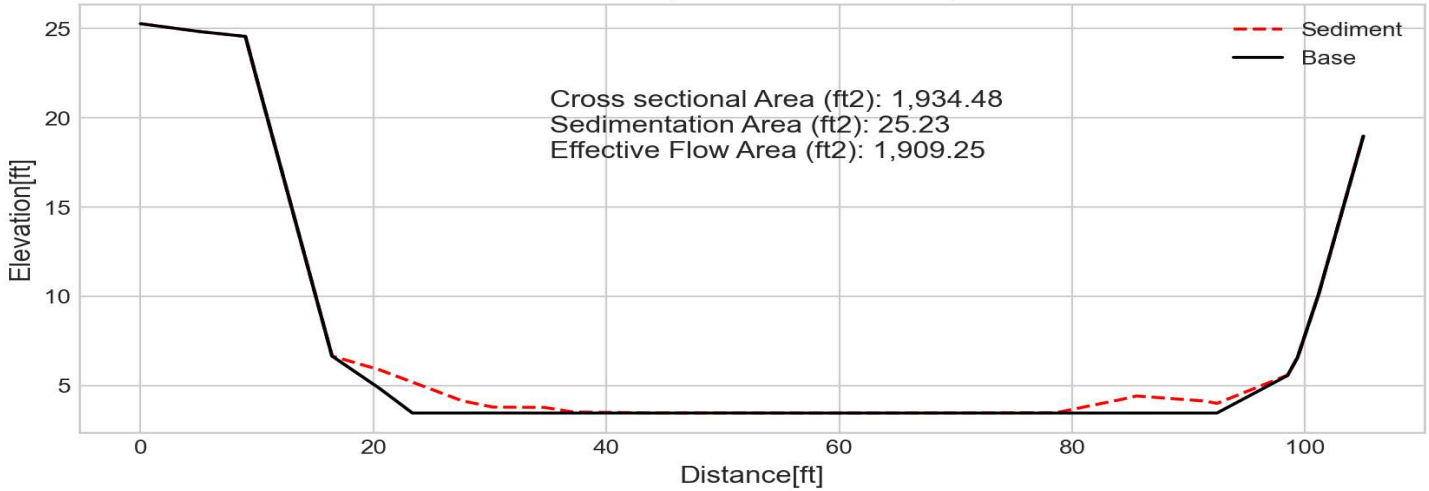
Year 2 (Station: 194+00)



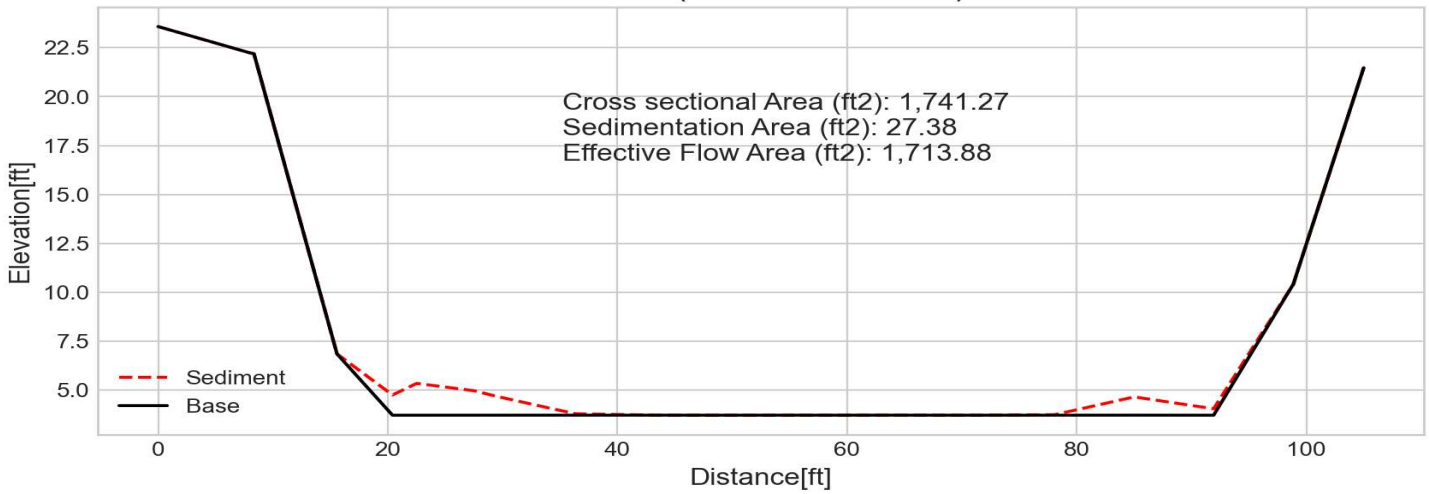
Year 2 (Station: 195+00)



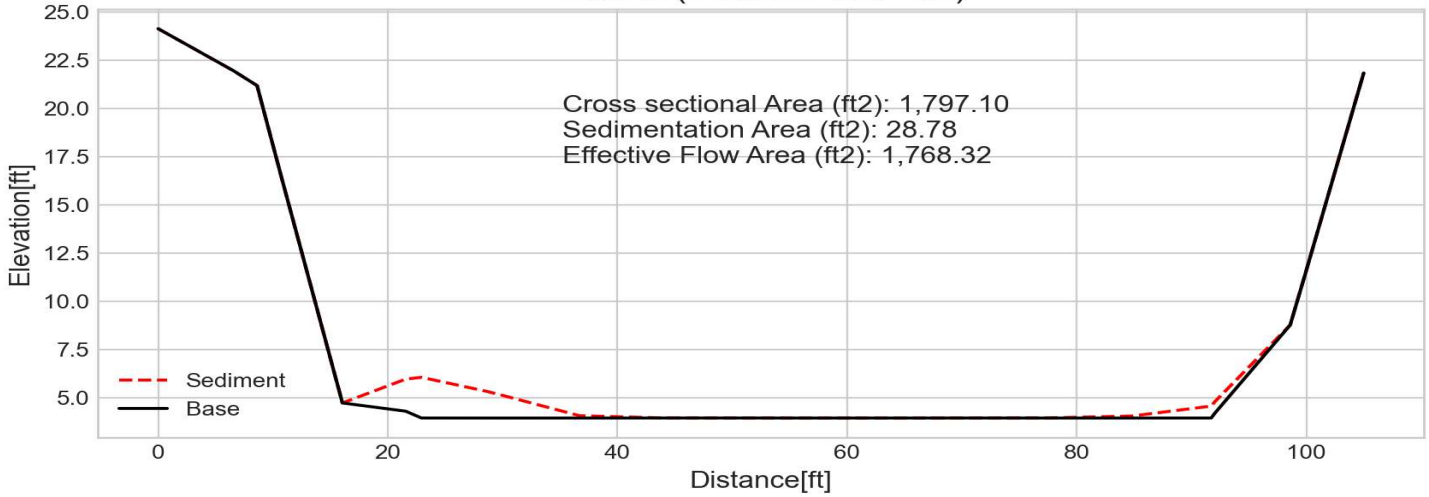
Year 2 (Station: 196+00)



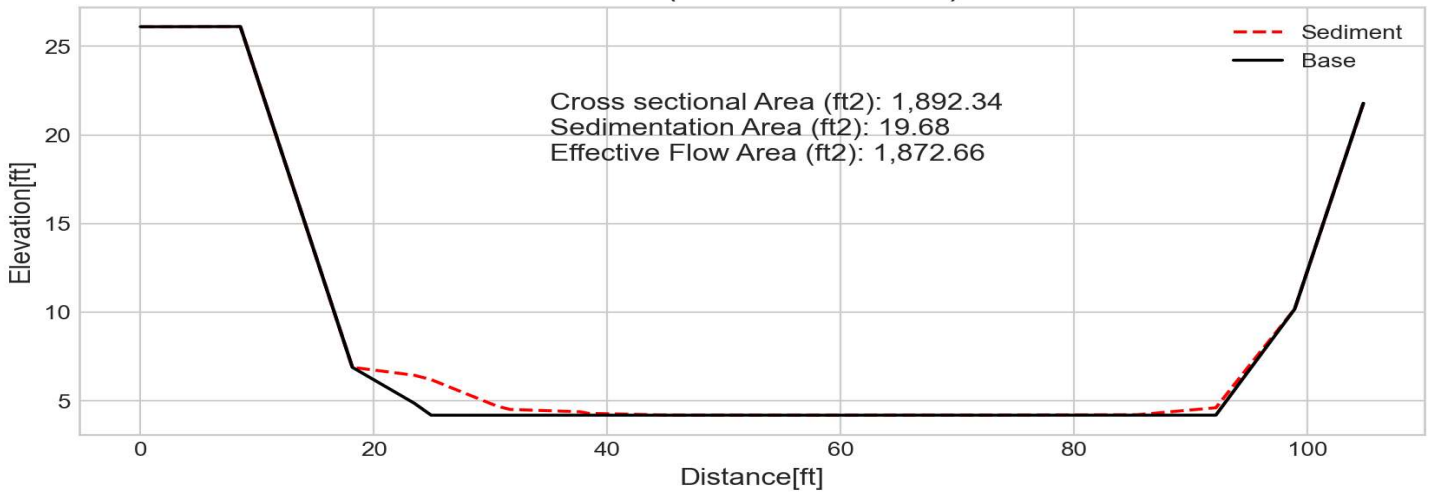
Year 2 (Station: 197+00)



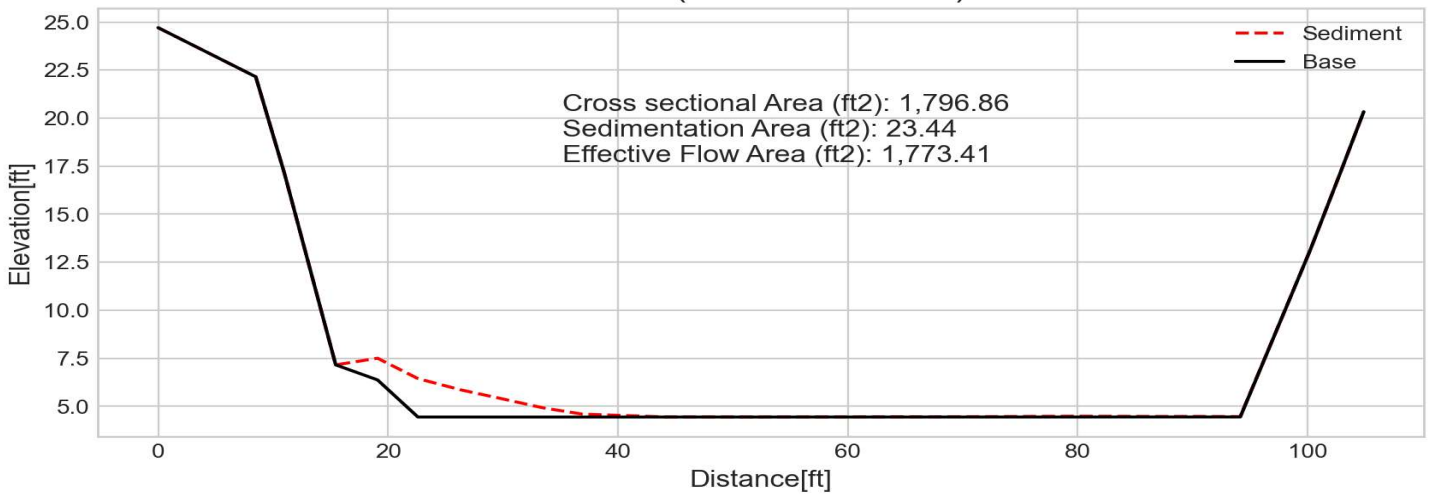
Year 2 (Station: 198+00)



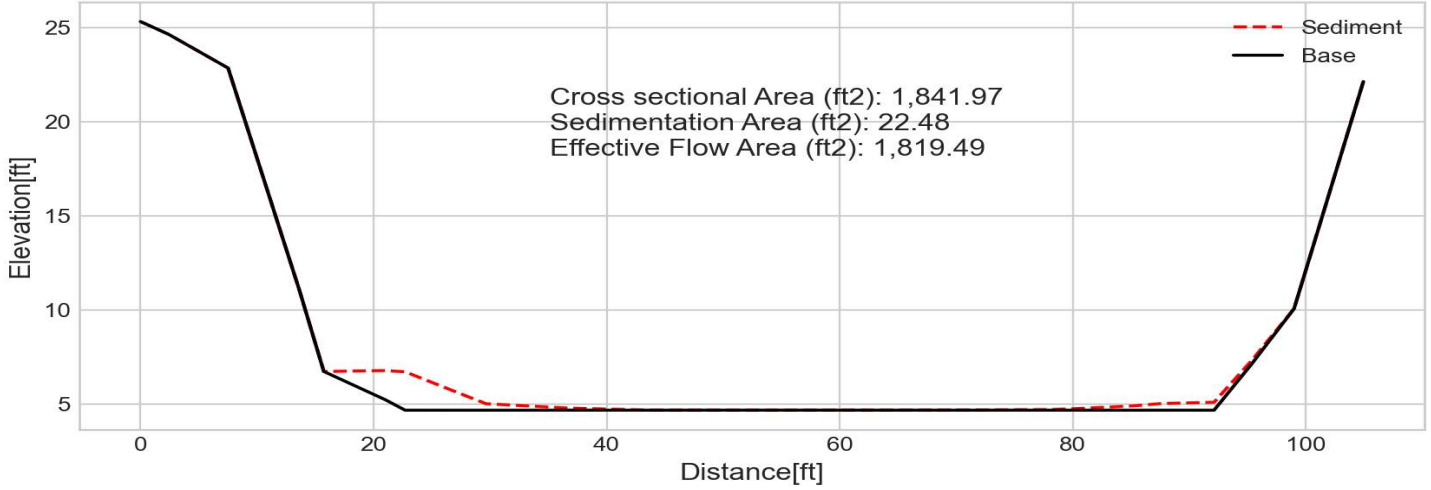
Year 2 (Station: 199+00)



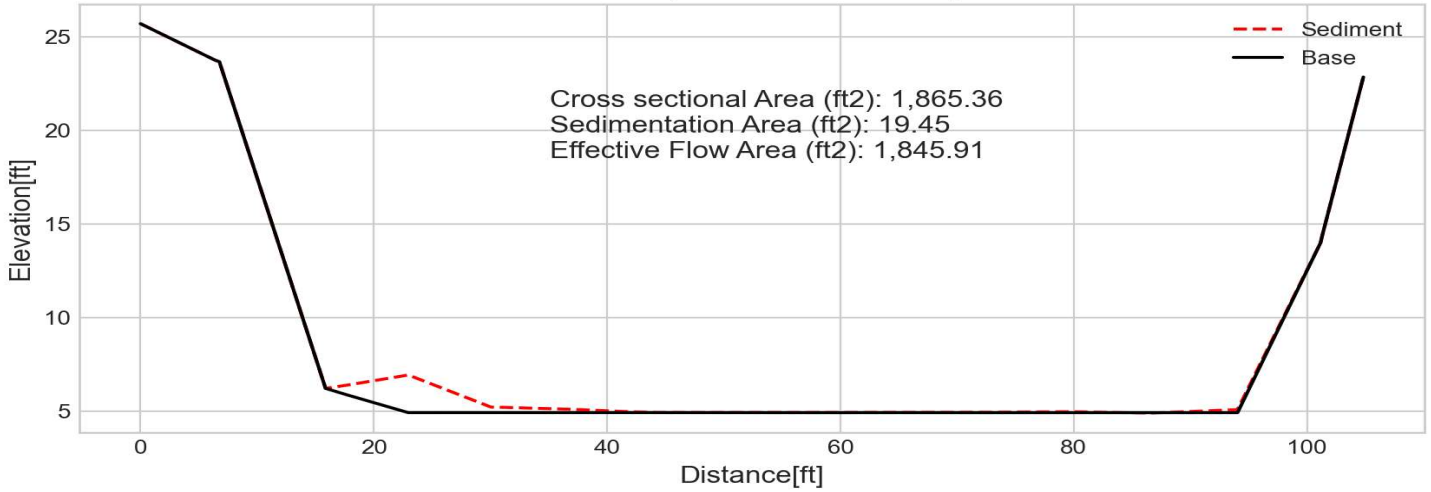
Year 2 (Station: 200+00)



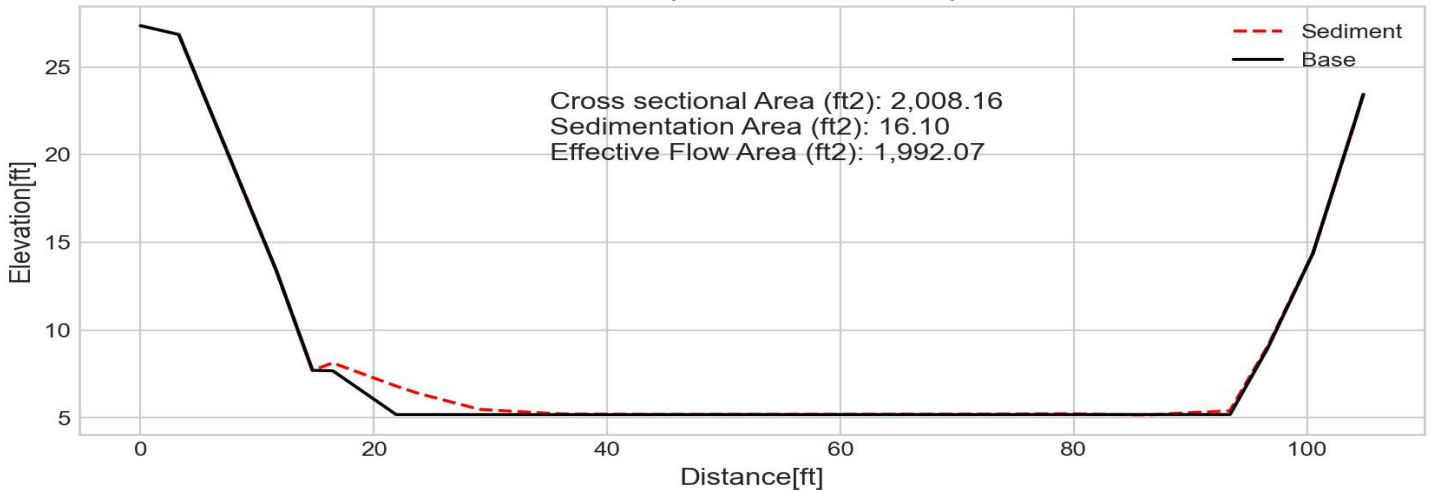
Year 2 (Station: 201+00)



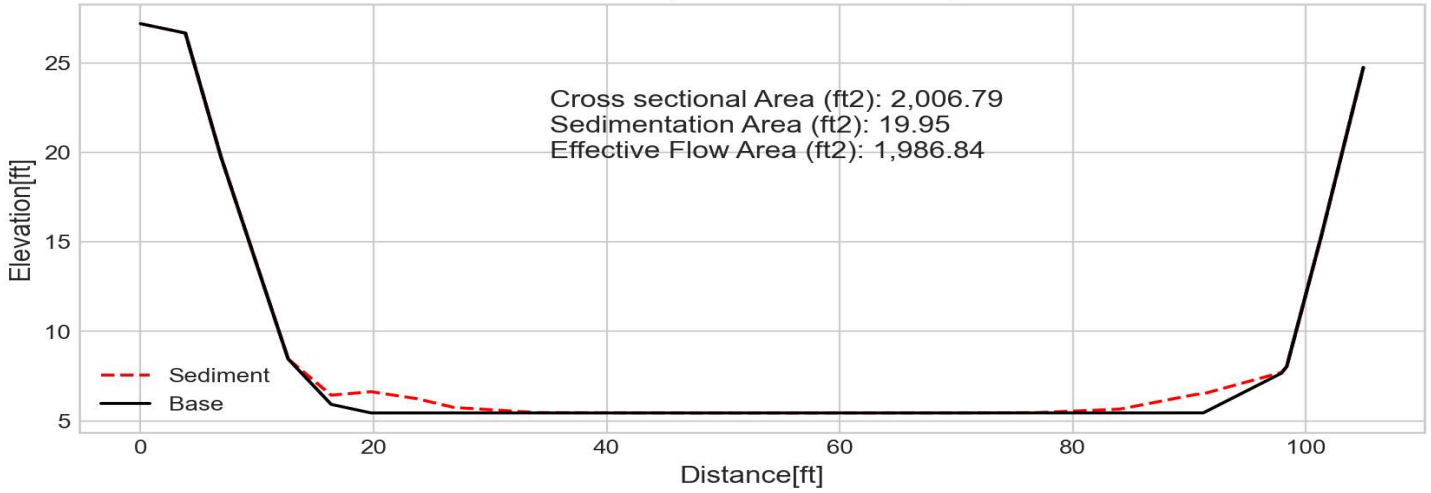
Year 2 (Station: 202+00)



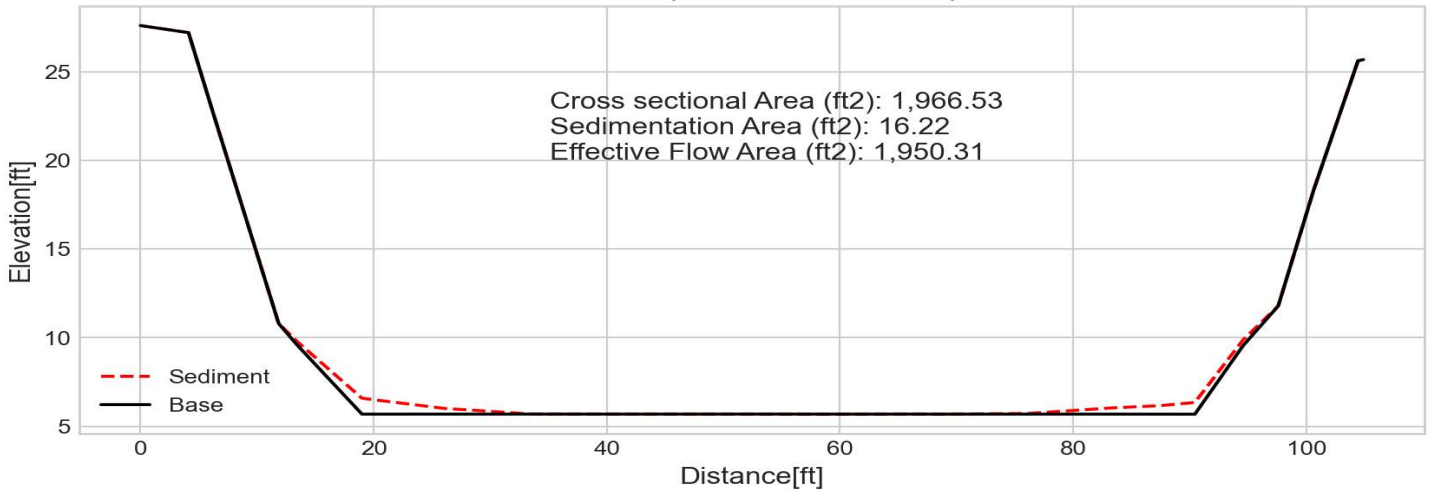
Year 2 (Station: 203+00)



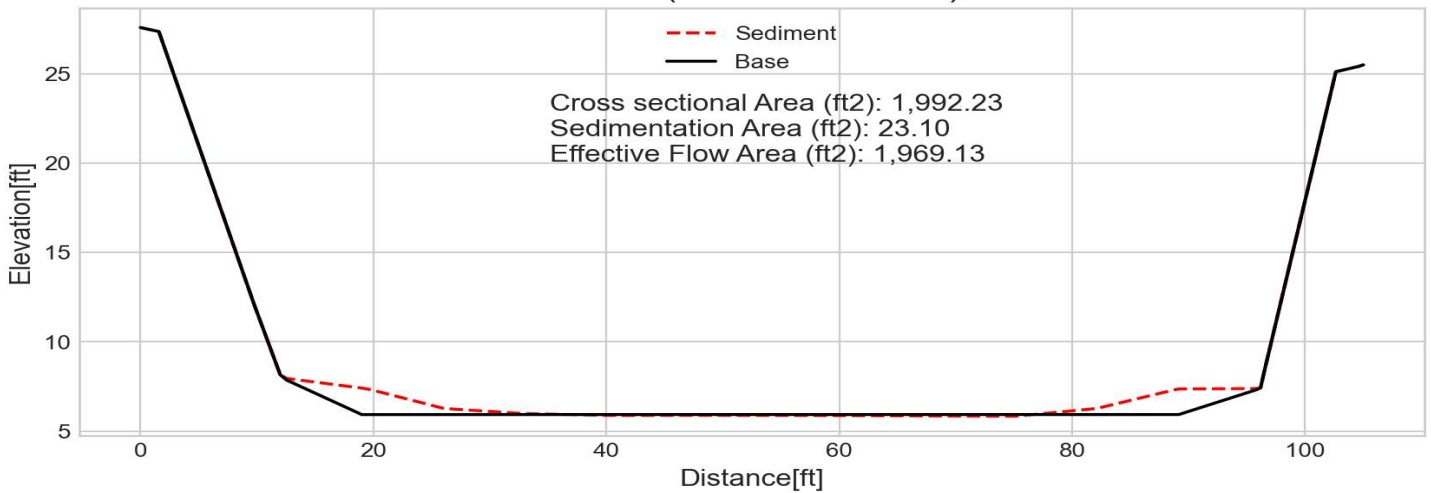
Year 2 (Station: 204+00)



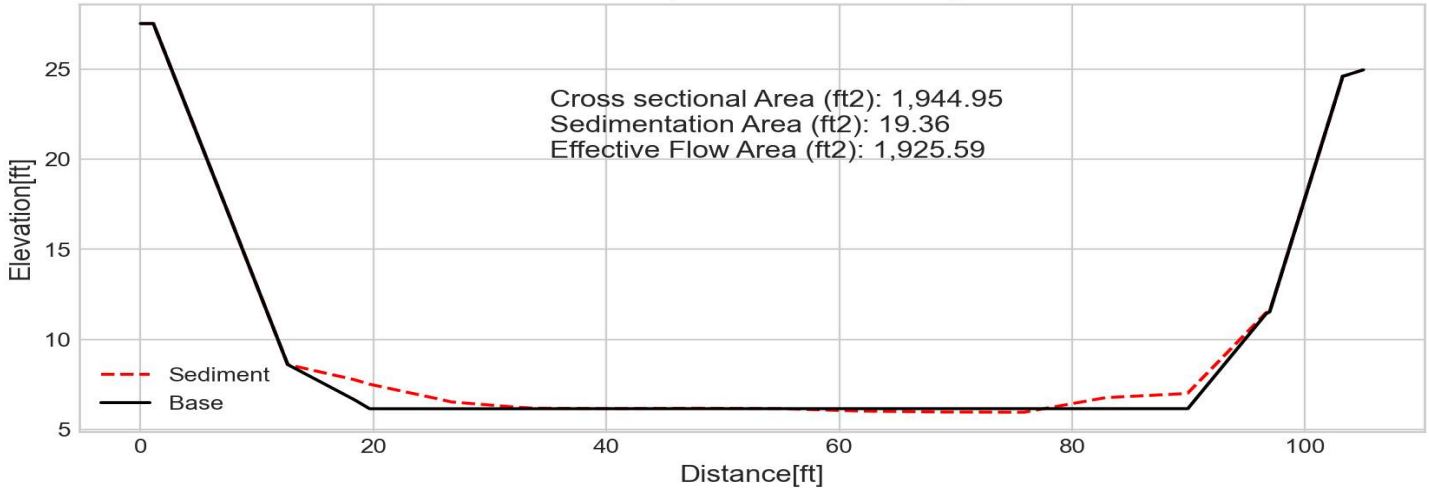
Year 2 (Station: 205+00)



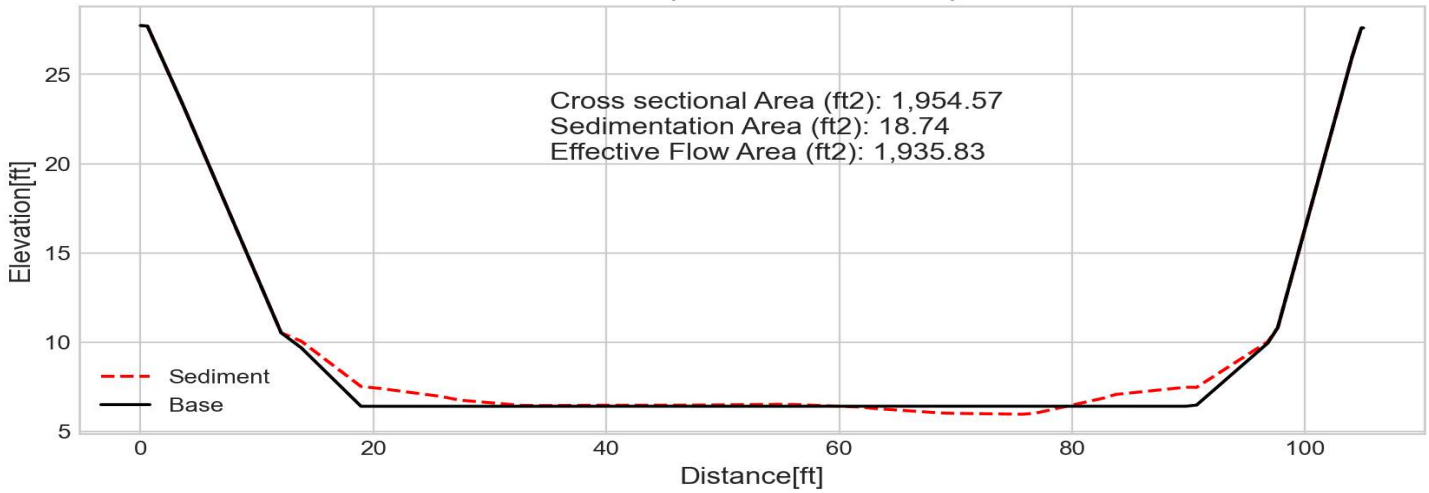
Year 2 (Station: 206+00)



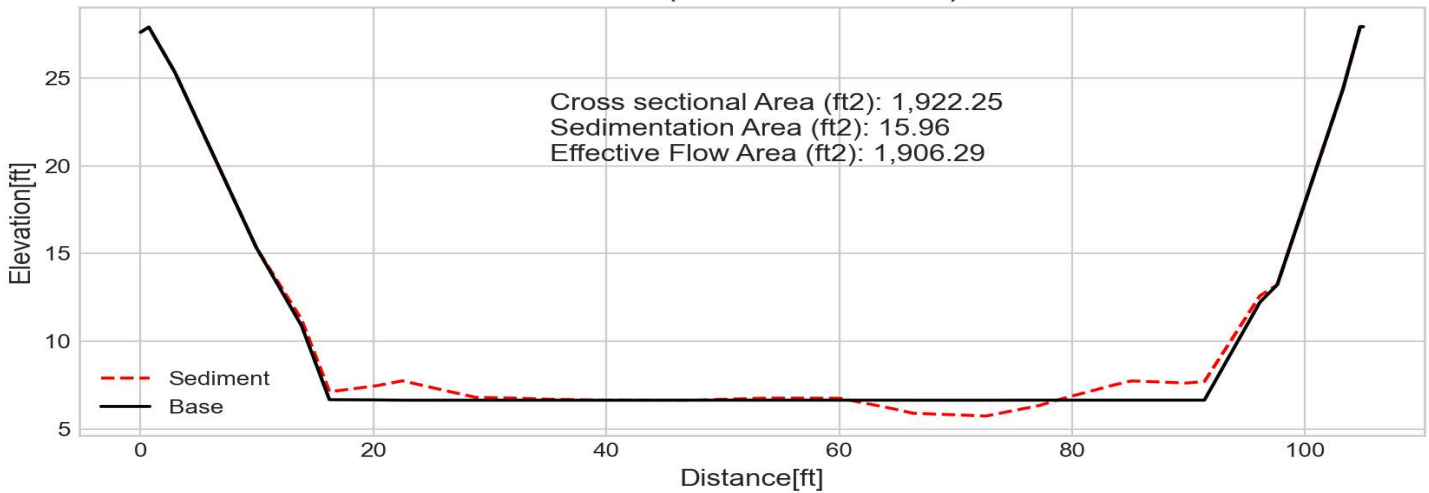
Year 2 (Station: 207+00)



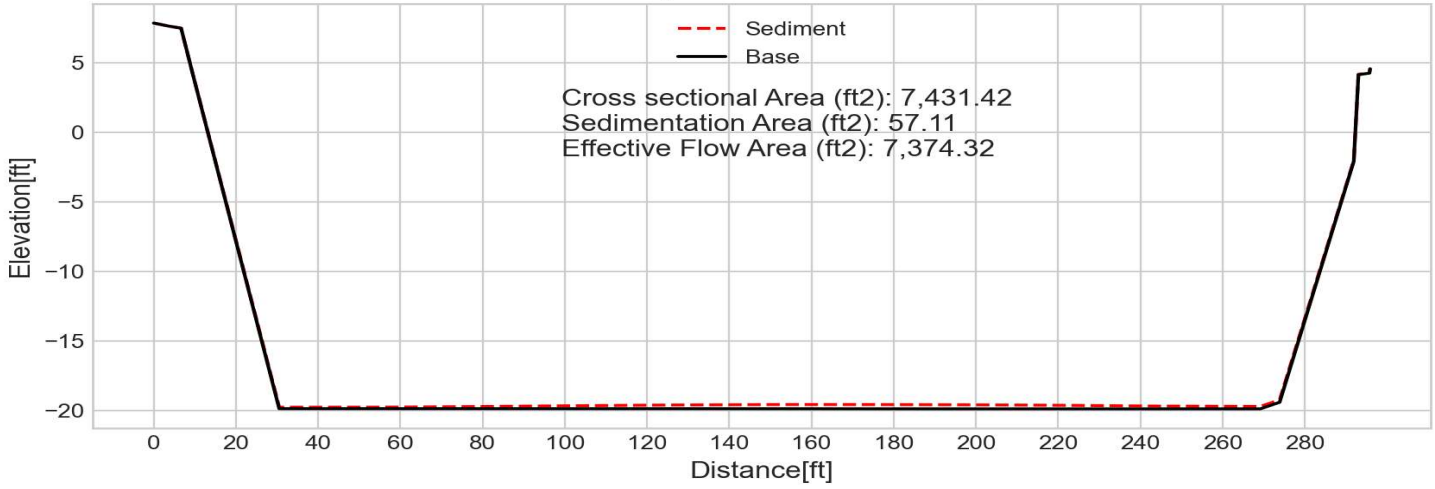
Year 2 (Station: 208+00)



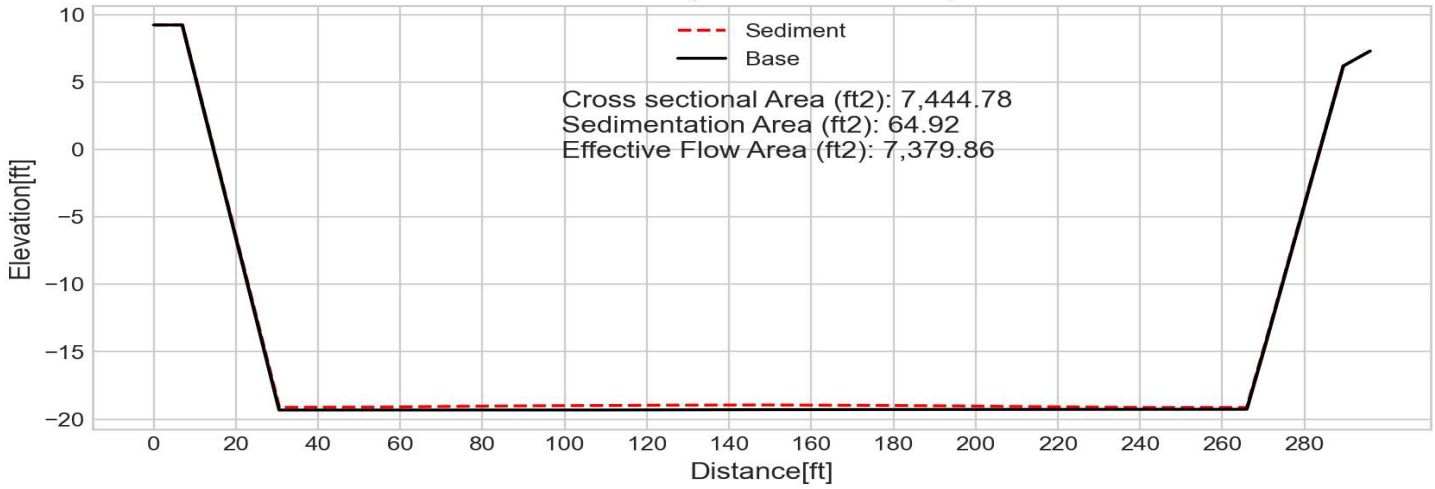
Year 2 (Station: 209+00)



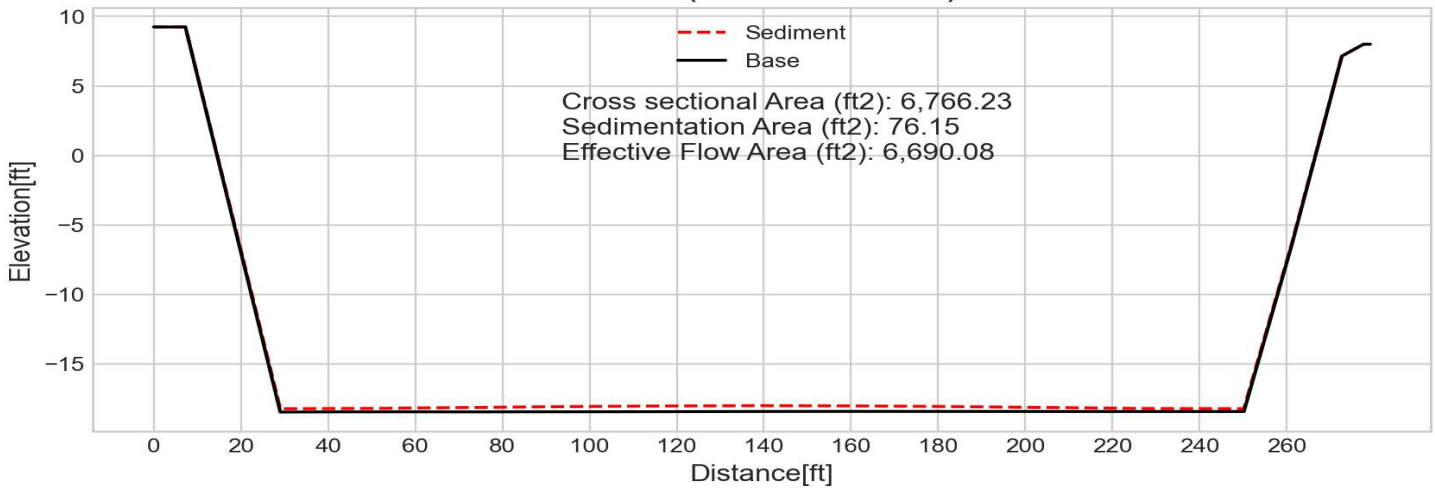
Year 3 (Station: 88+33.21)



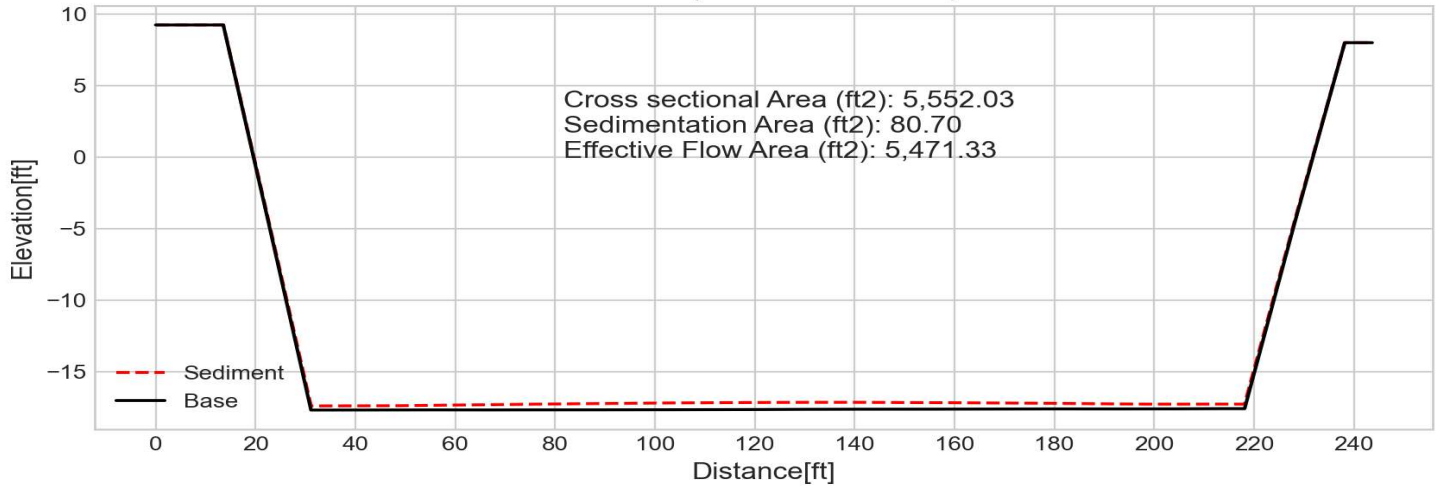
Year 3 (Station: 89+00)



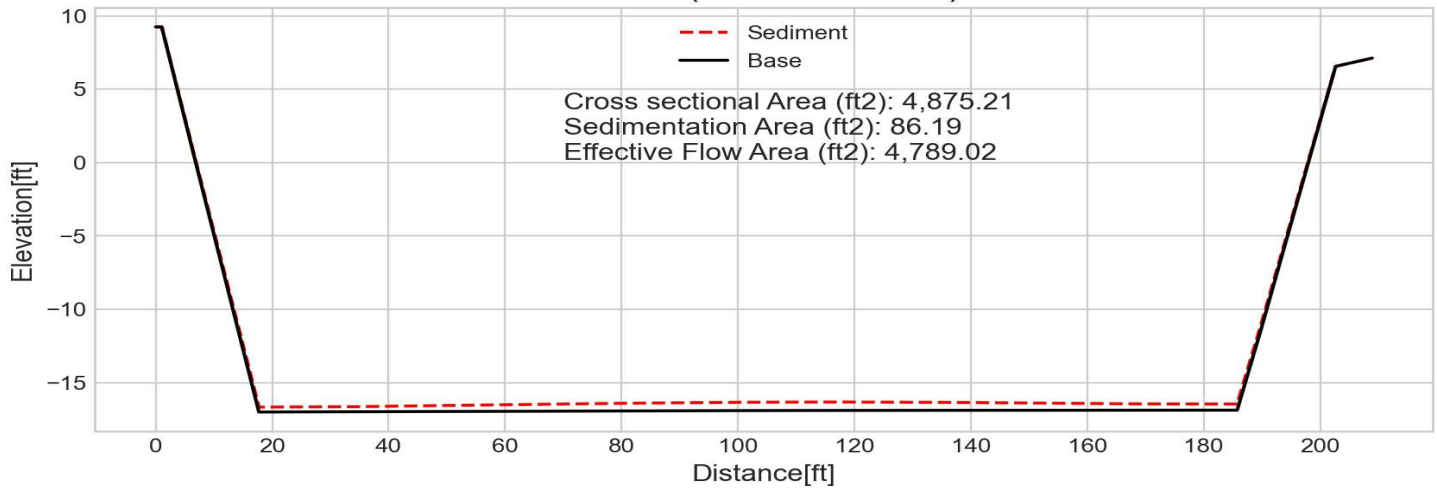
Year 3 (Station: 90+00)



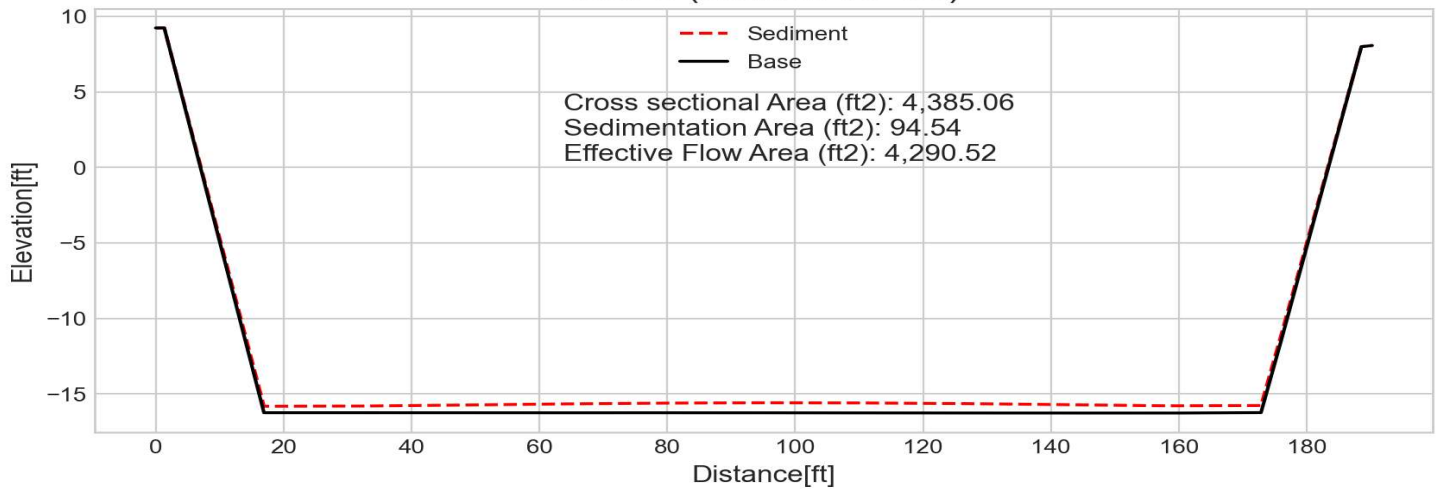
Year 3 (Station: 91+00)



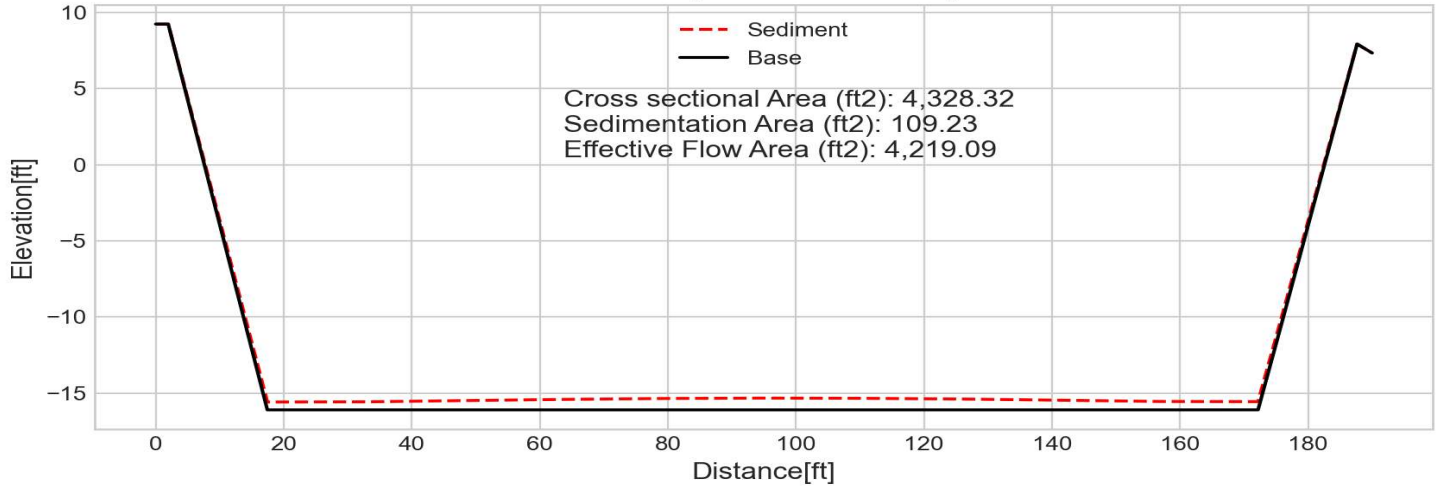
Year 3 (Station: 92+00)



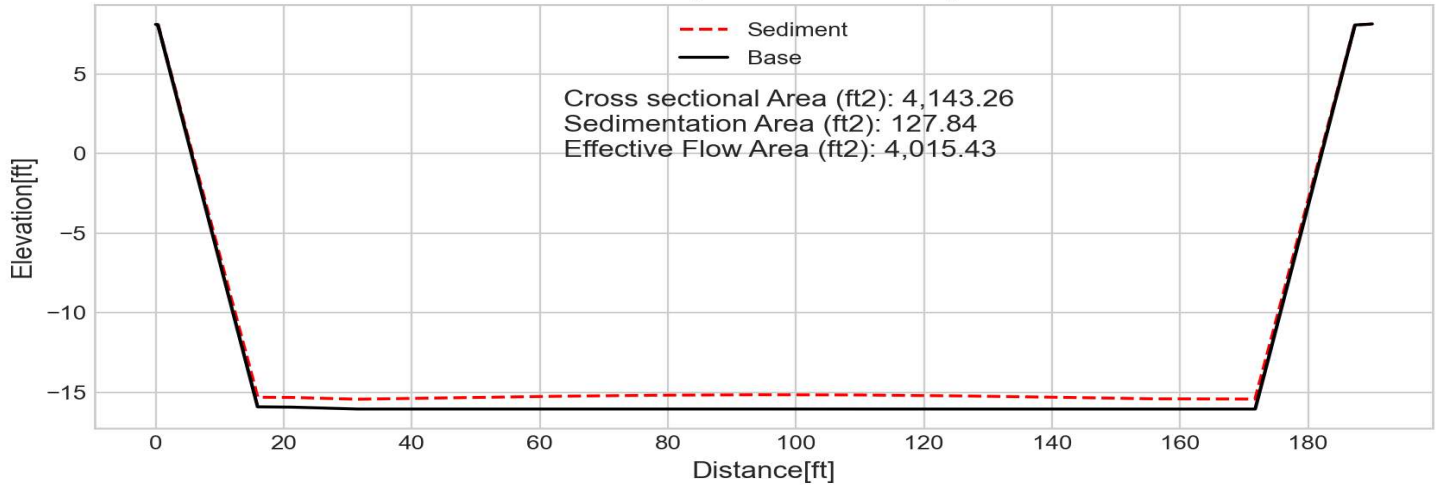
Year 3 (Station: 93+00)



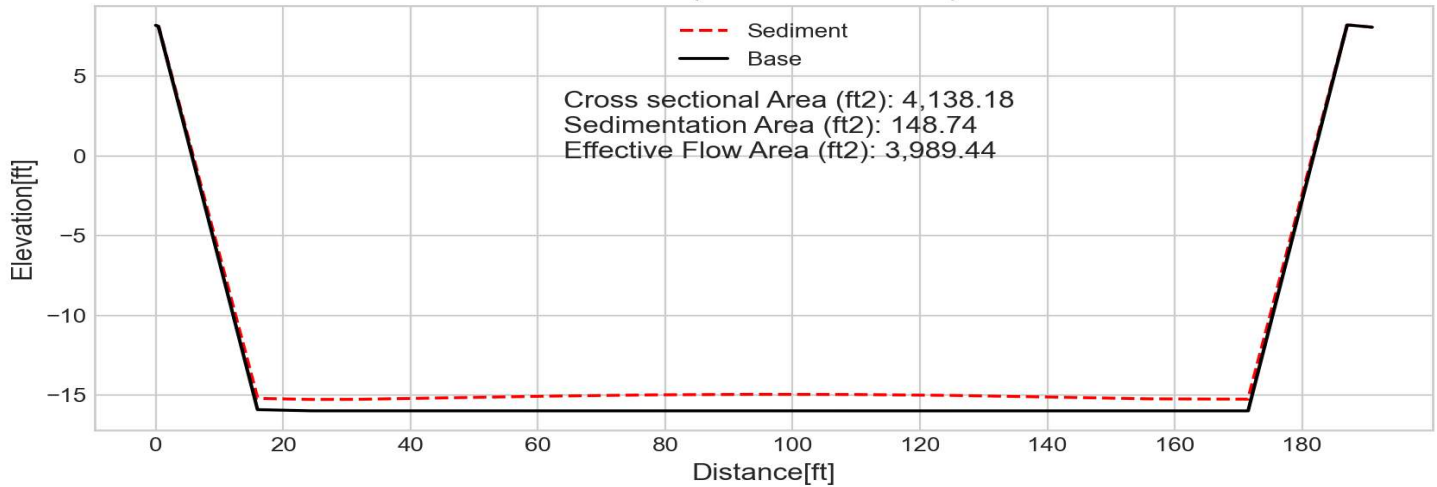
Year 3 (Station: 94+00)



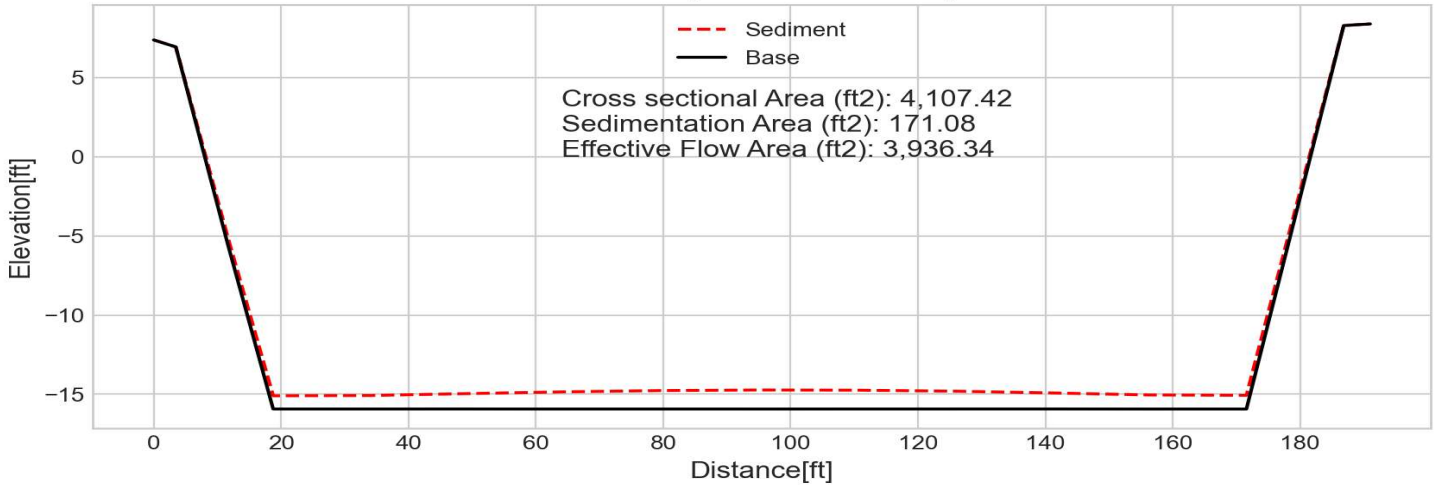
Year 3 (Station: 95+00)



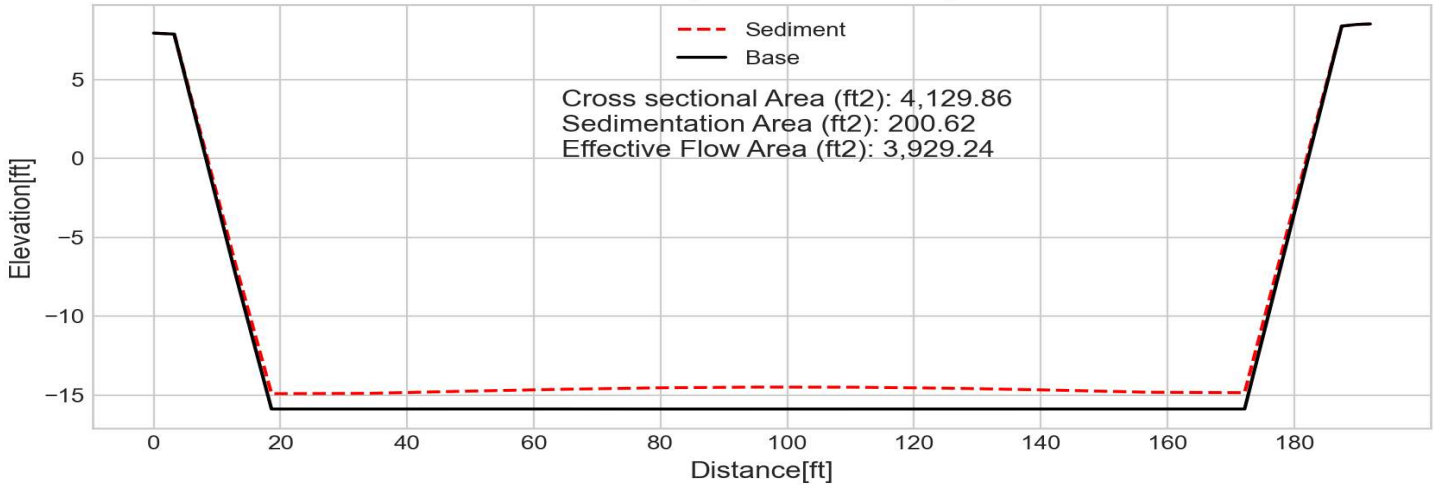
Year 3 (Station: 96+00)



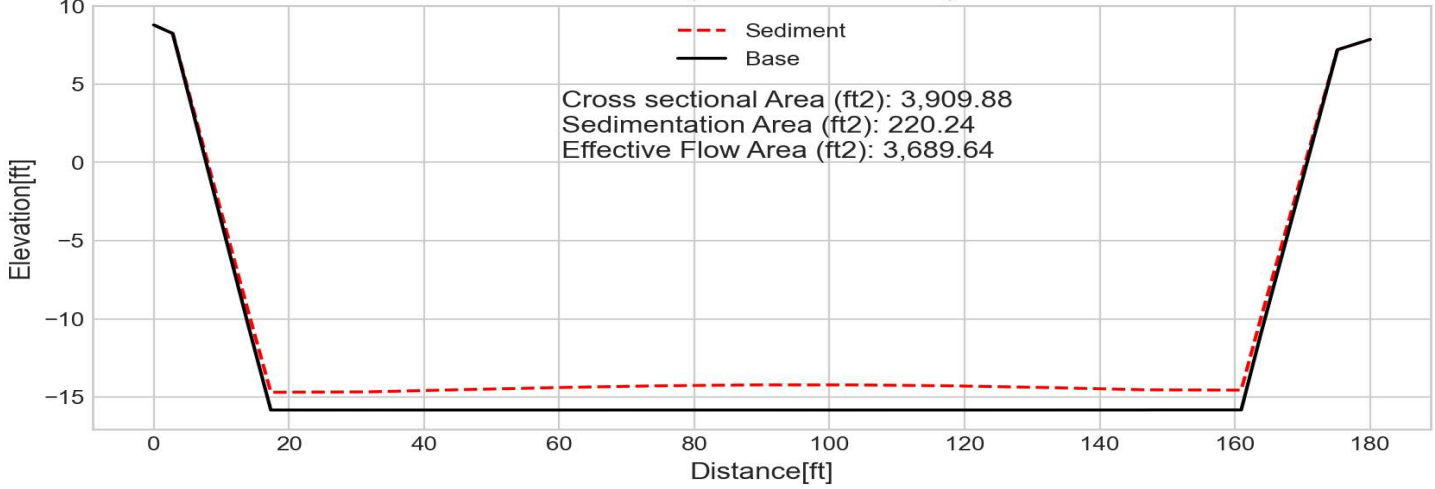
Year 3 (Station: 97+00)



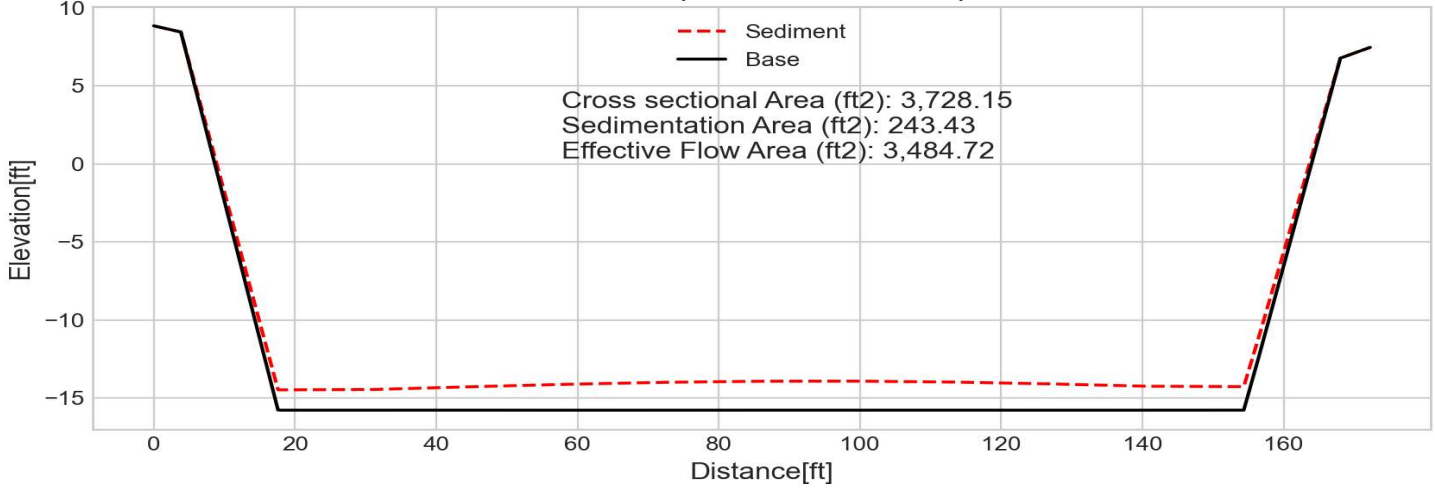
Year 3 (Station: 98+00)



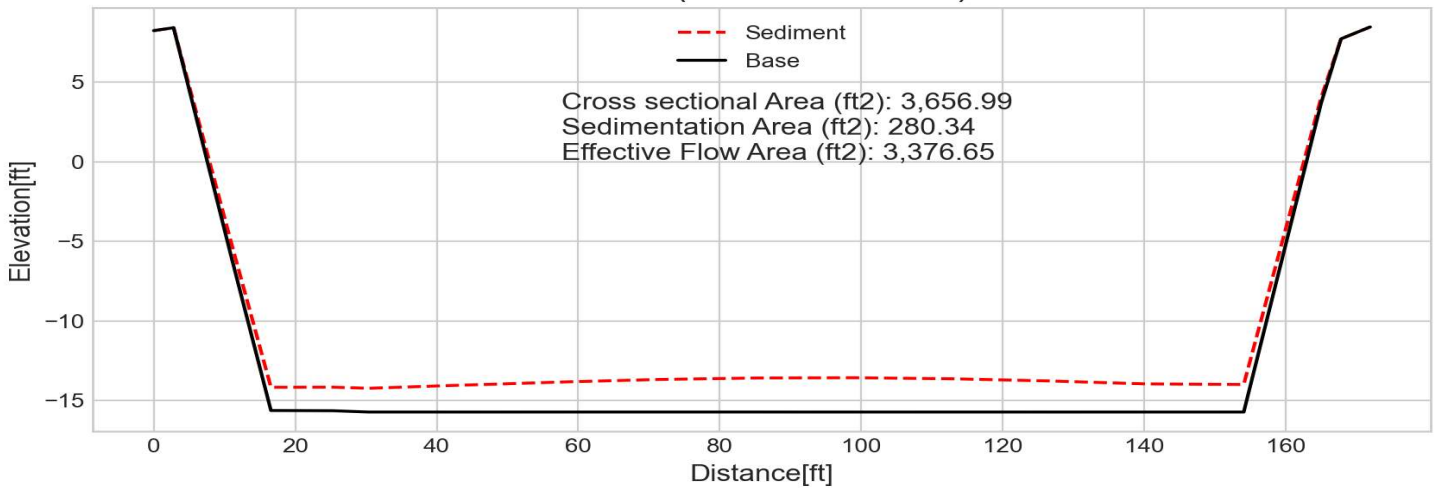
Year 3 (Station: 99+00)



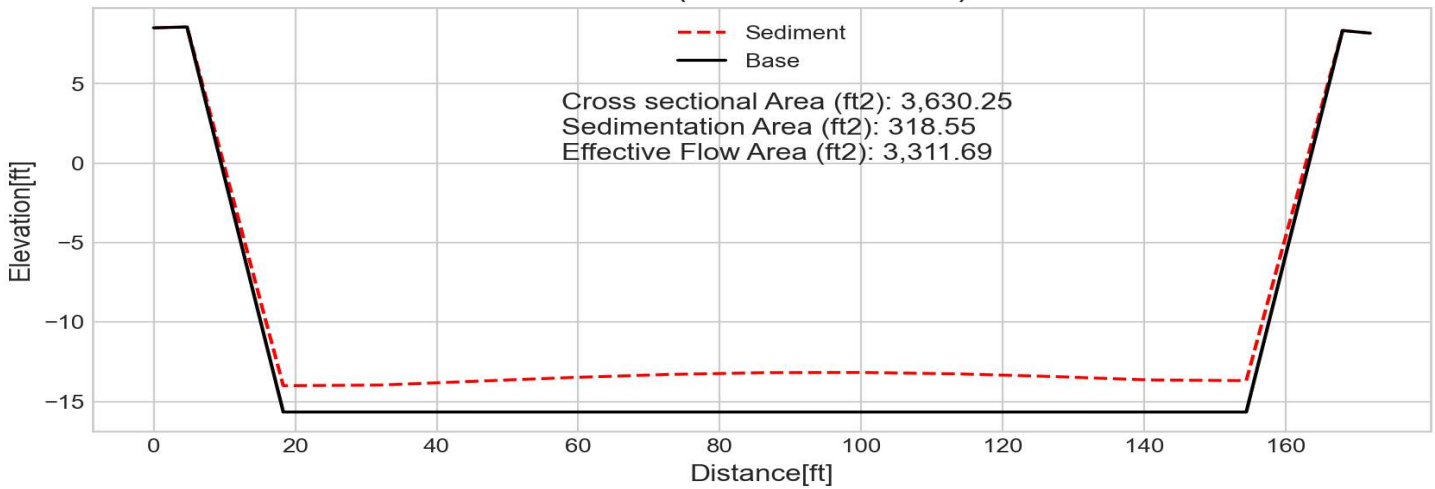
Year 3 (Station: 100+00)



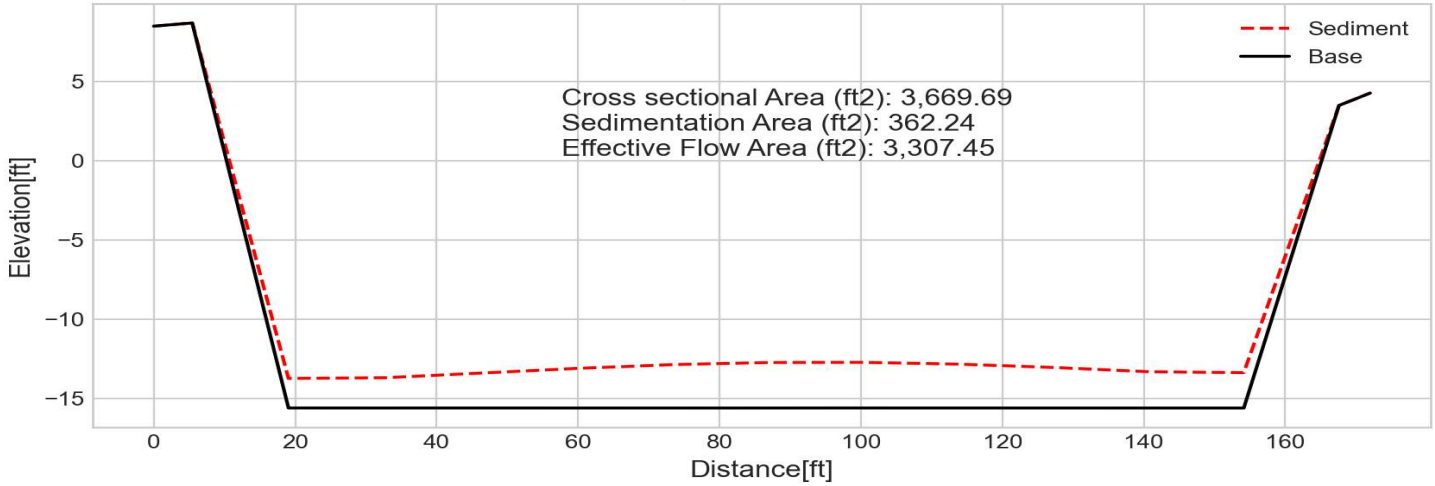
Year 3 (Station: 101+00)



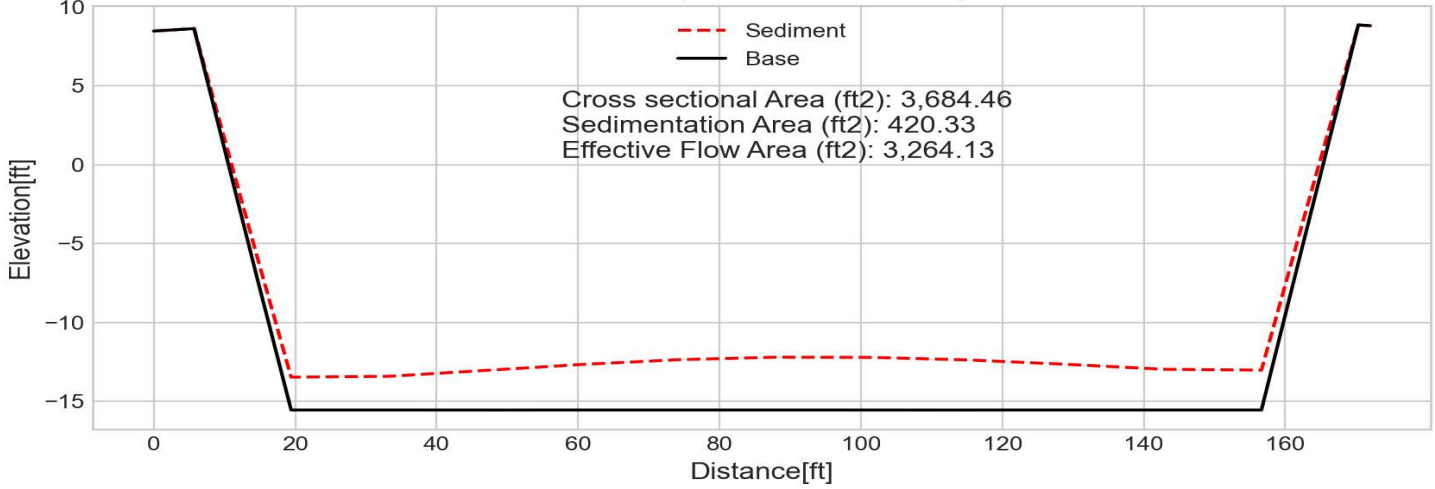
Year 3 (Station: 102+00)



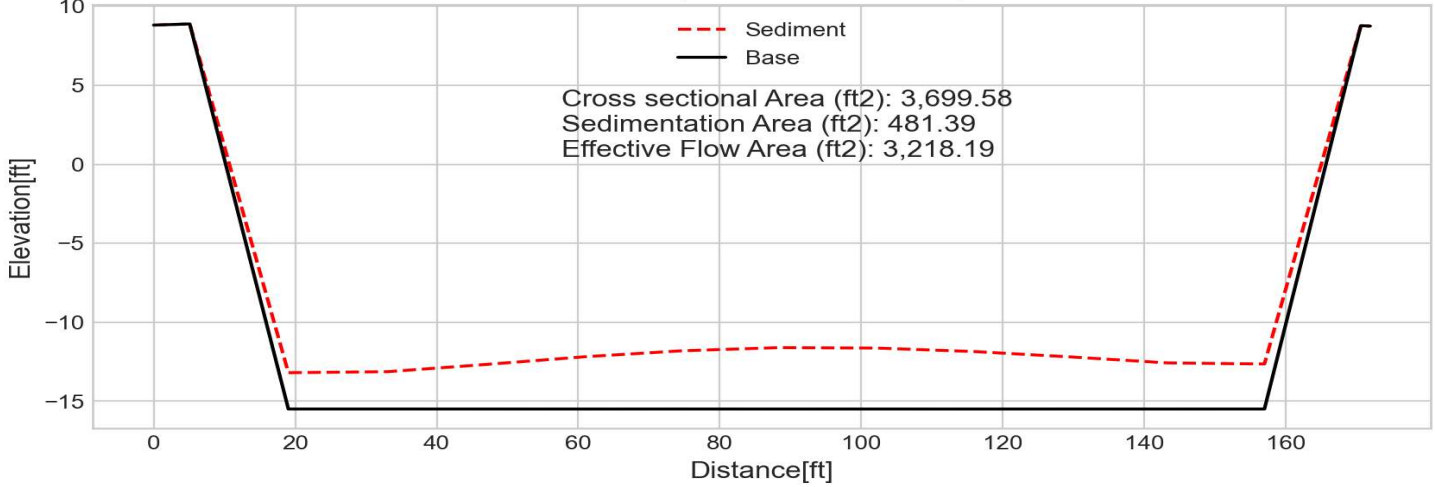
Year 3 (Station: 103+00)



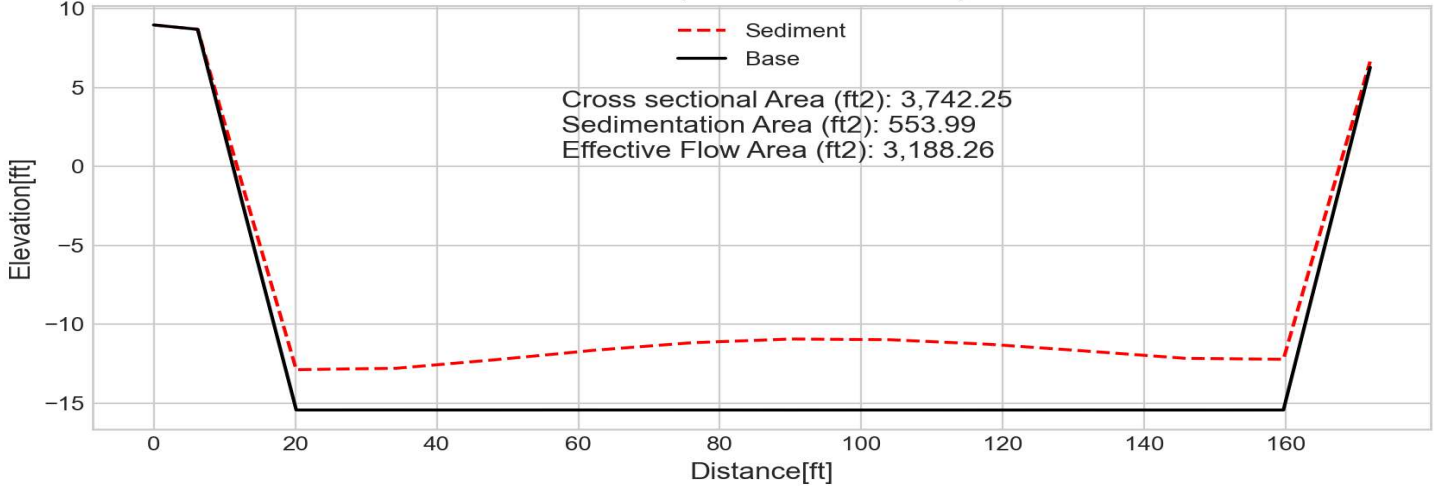
Year 3 (Station: 104+00)



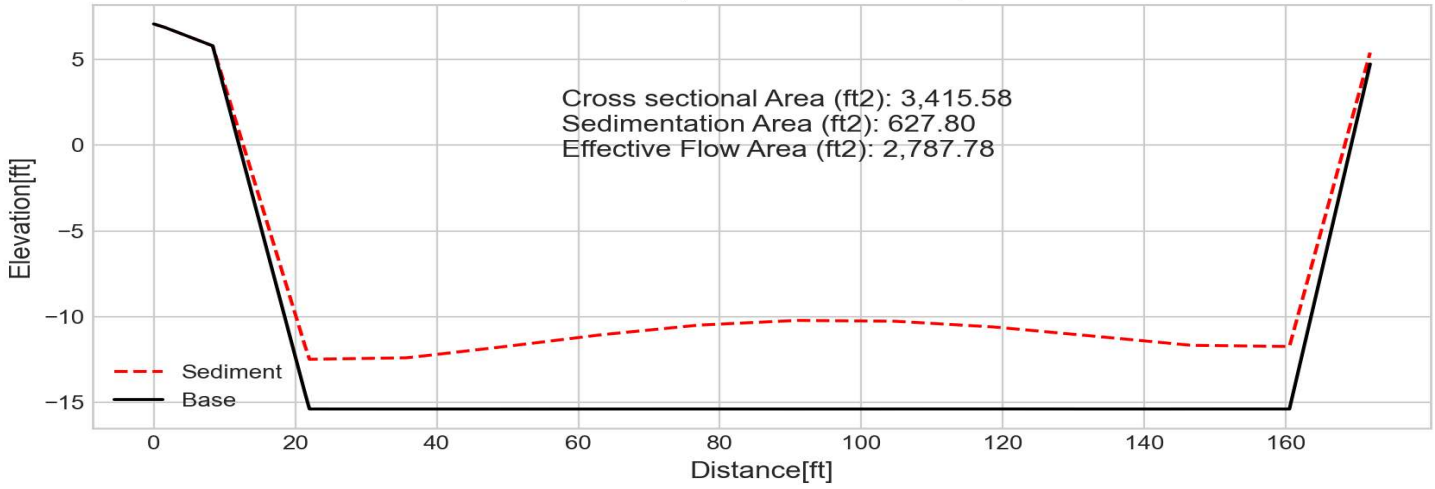
Year 3 (Station: 105+00)



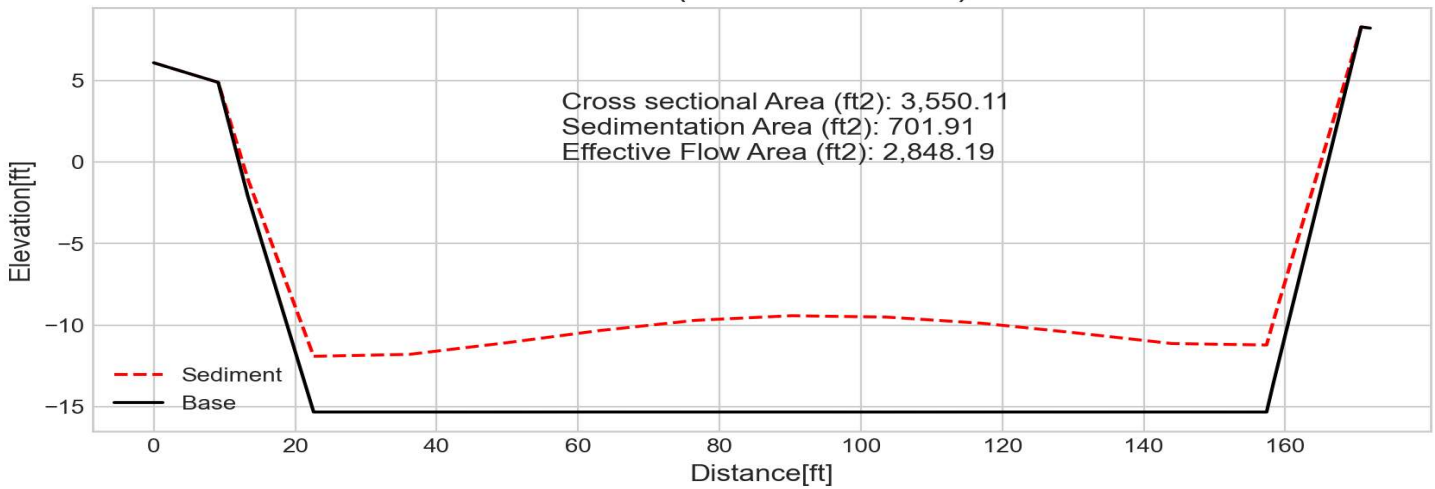
Year 3 (Station: 106+00)



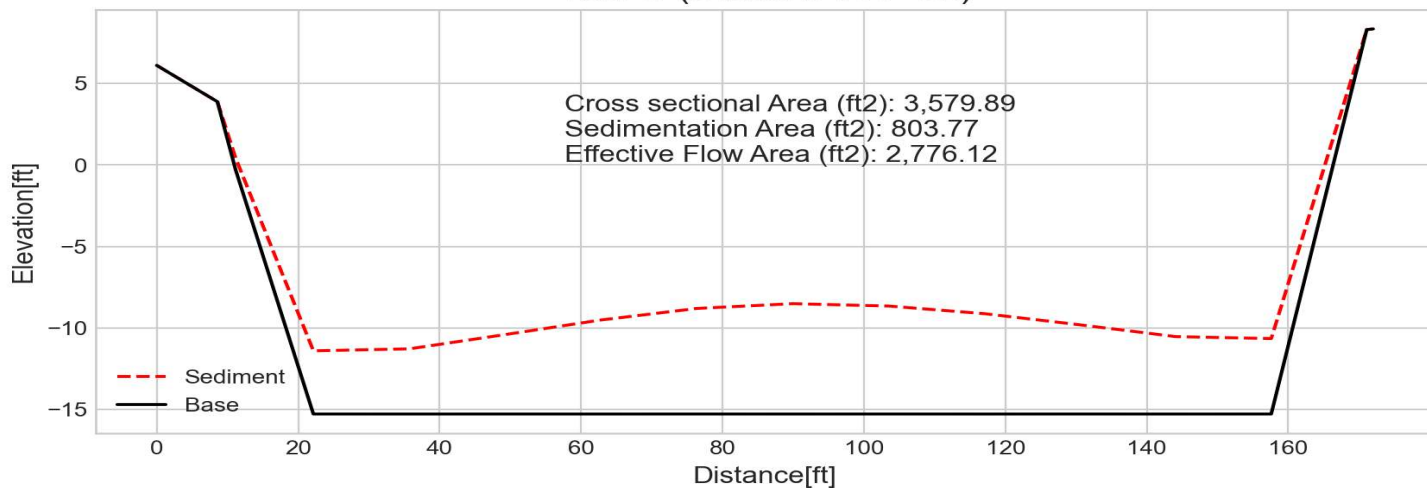
Year 3 (Station: 107+00)



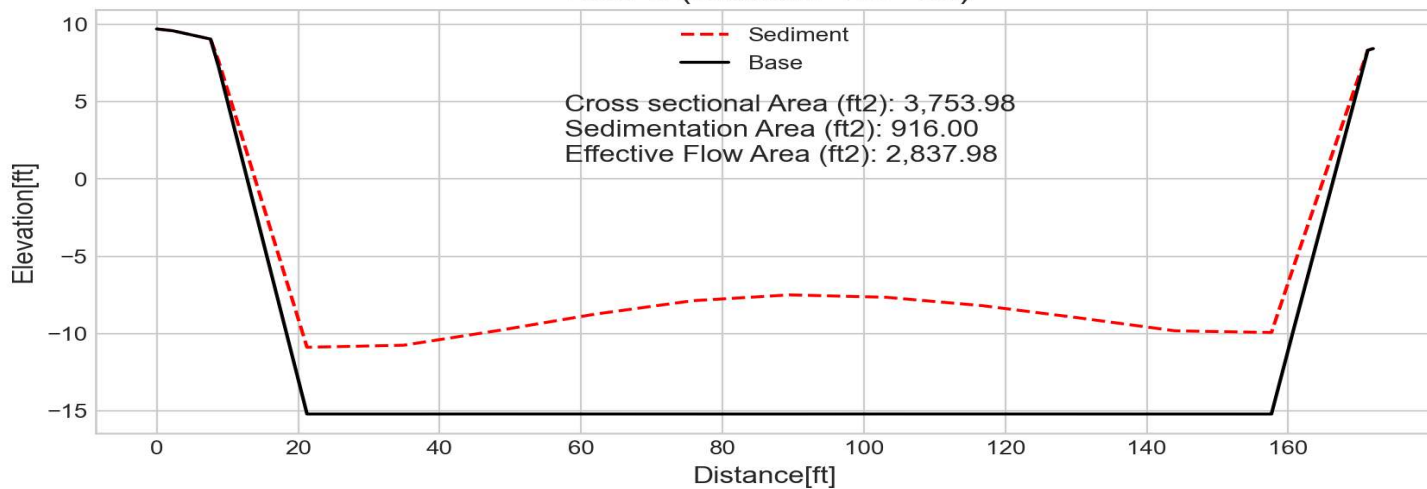
Year 3 (Station: 108+00)



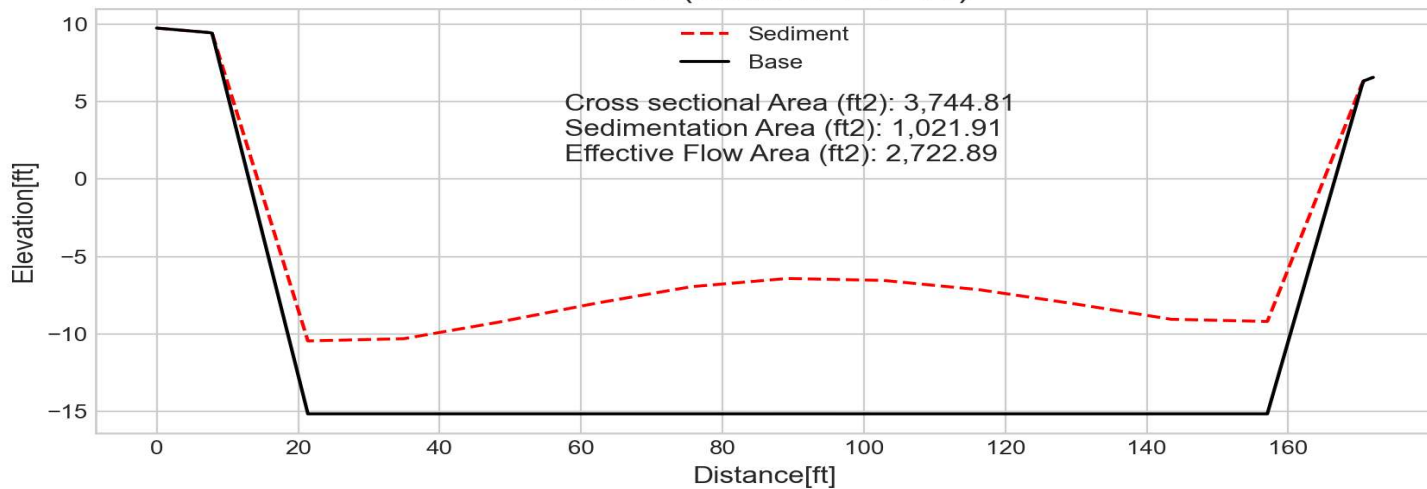
Year 3 (Station: 109+00)



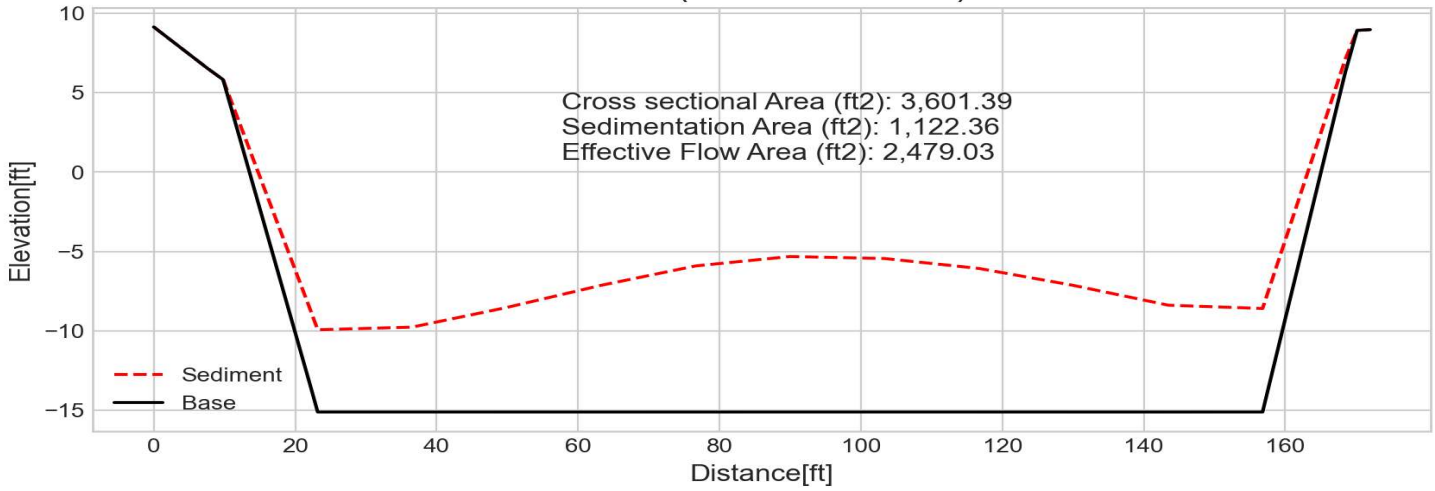
Year 3 (Station: 110+00)



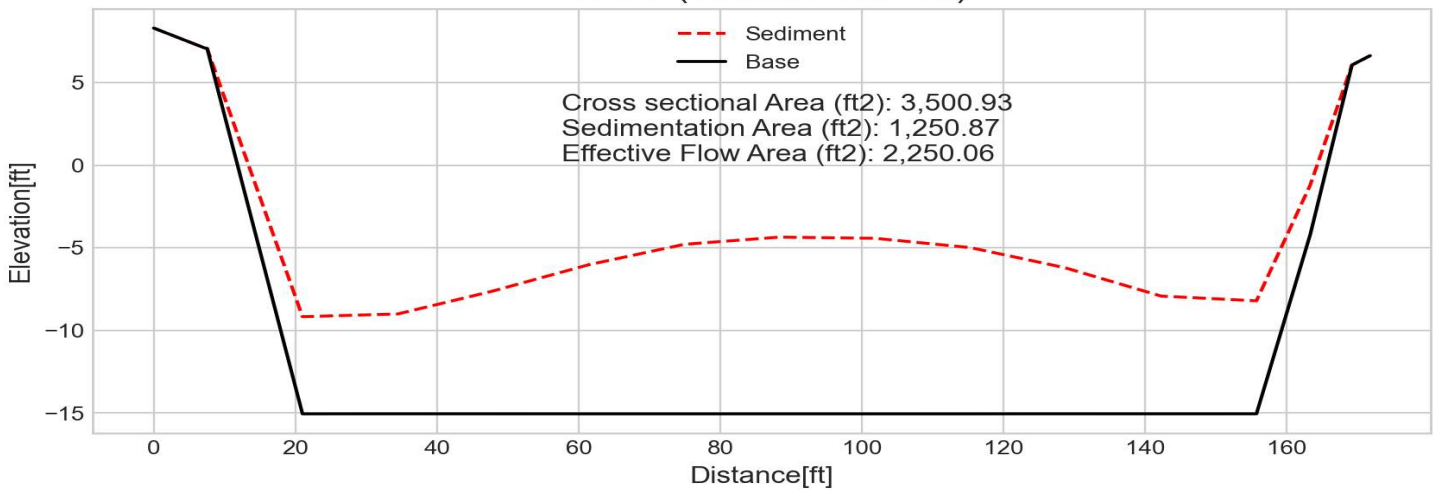
Year 3 (Station: 111+00)



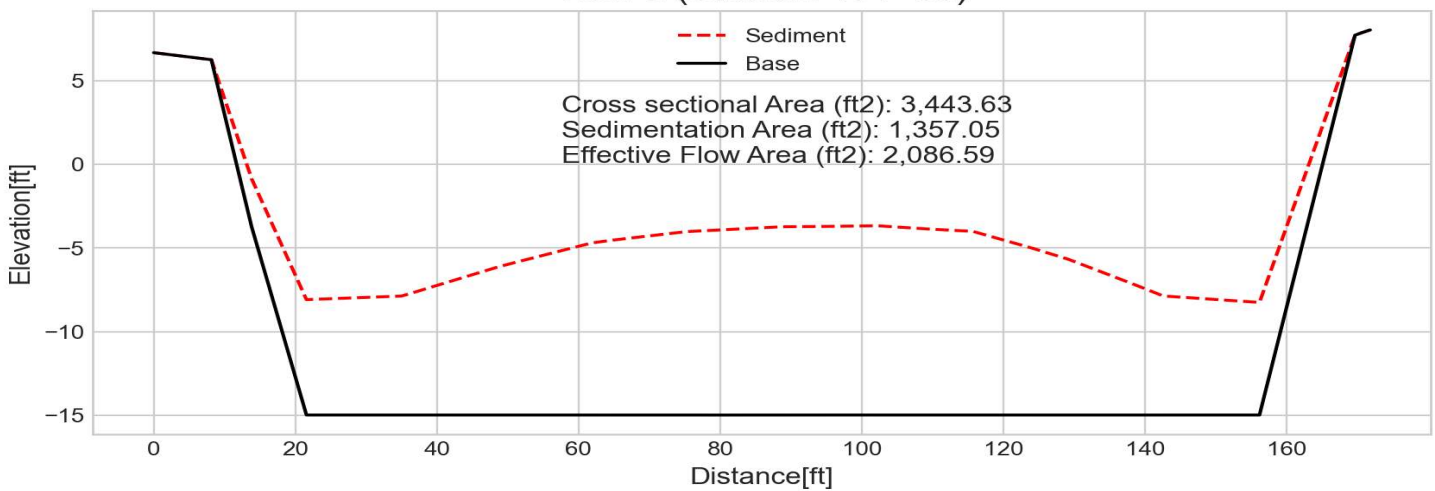
Year 3 (Station: 112+00)



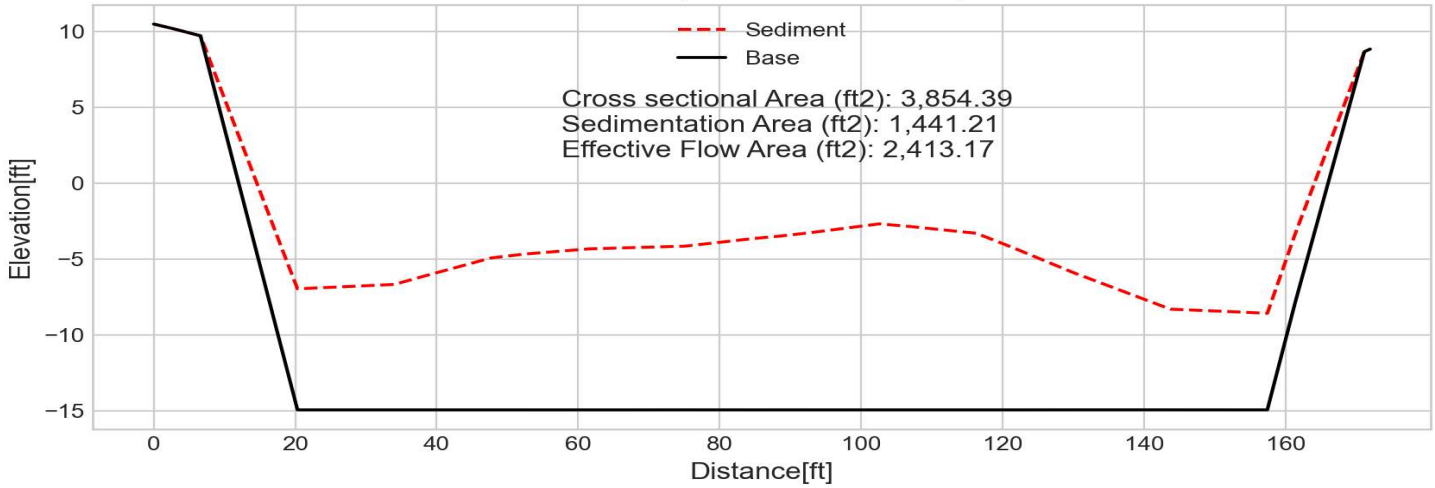
Year 3 (Station: 113+00)



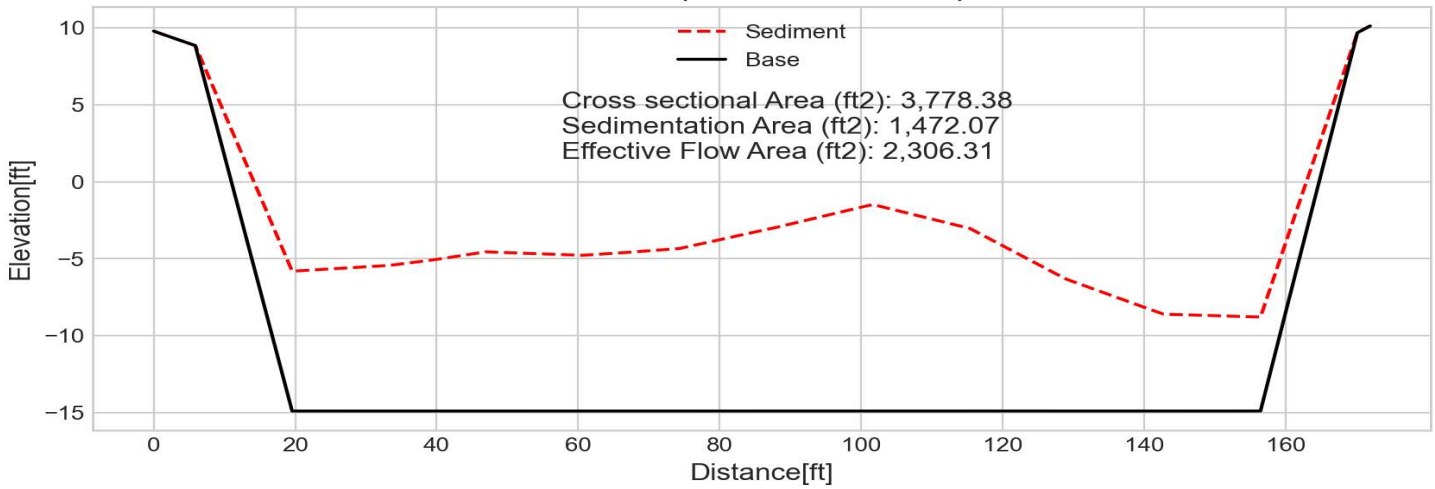
Year 3 (Station: 114+00)



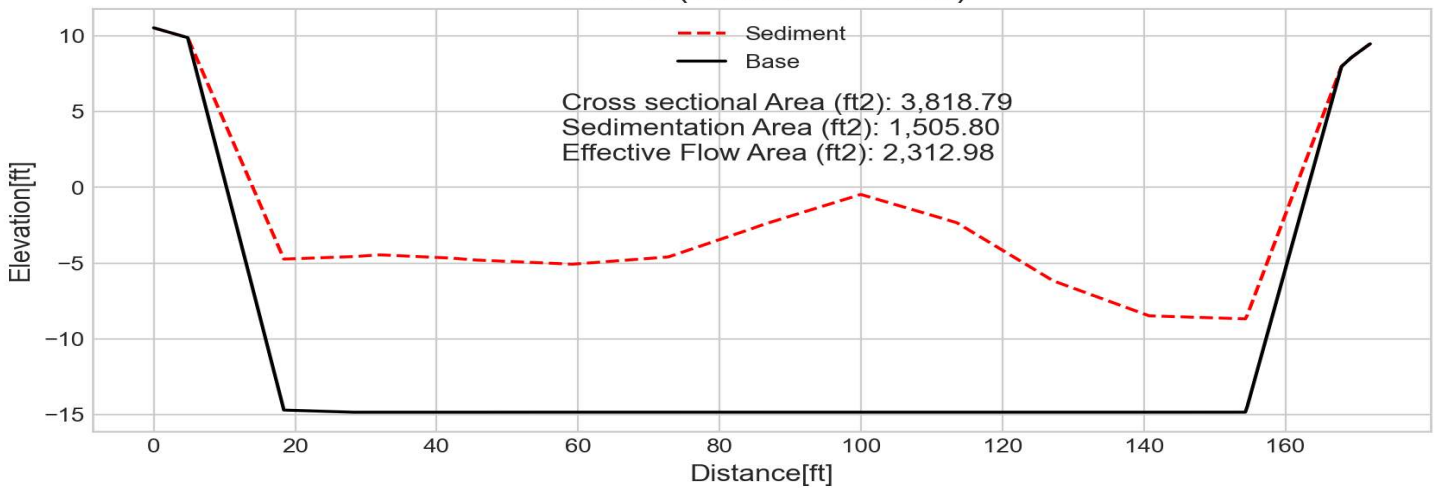
Year 3 (Station: 115+00)



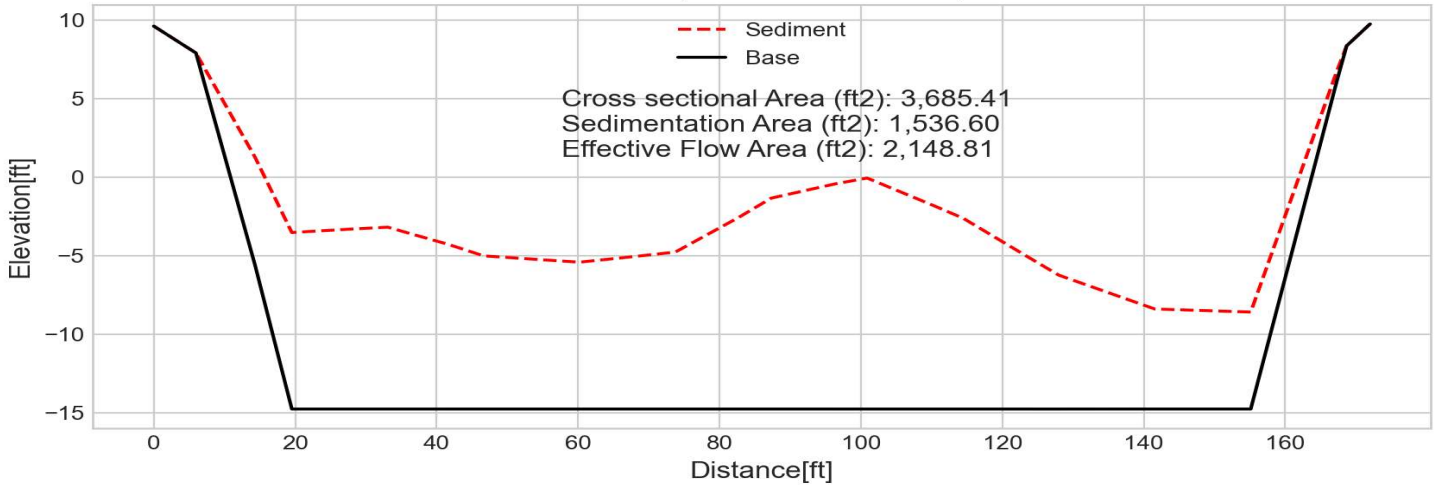
Year 3 (Station: 116+00)



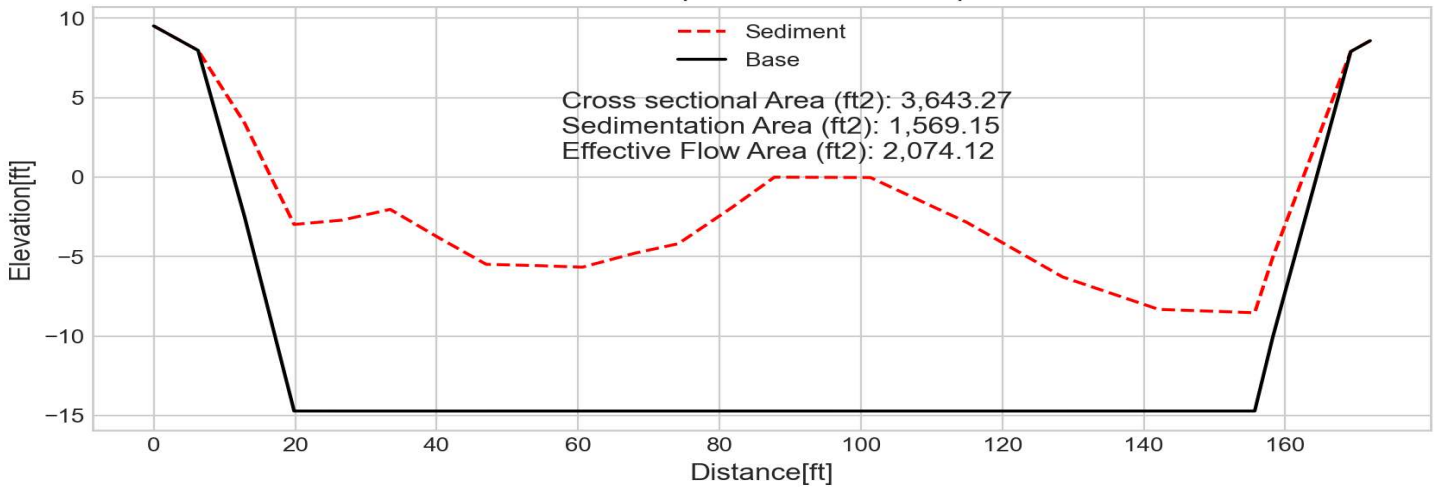
Year 3 (Station: 117+00)



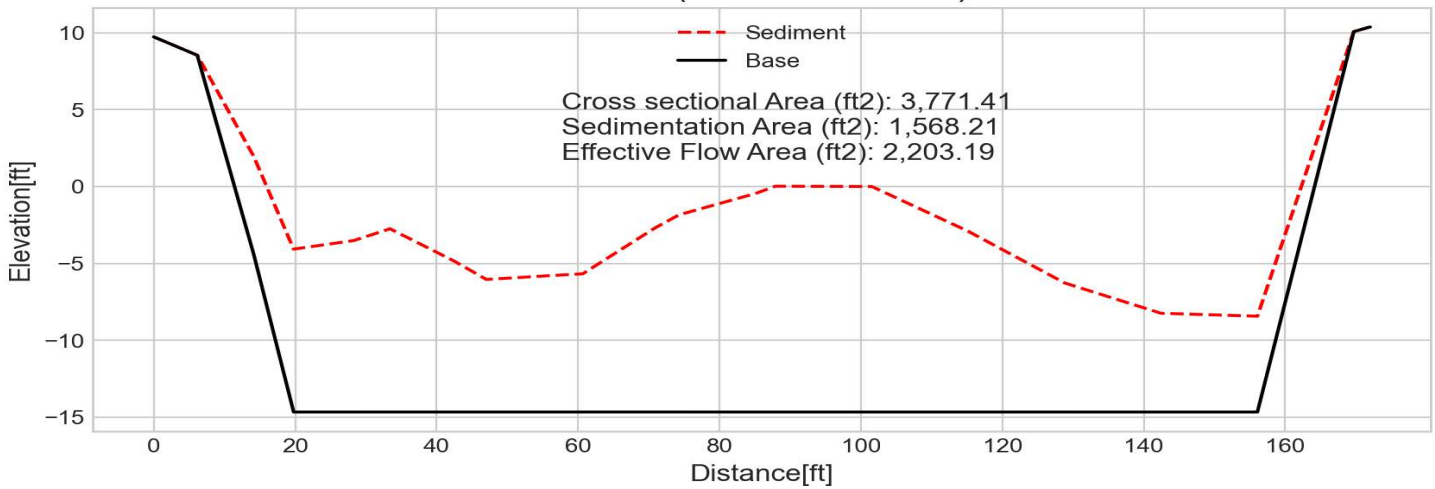
Year 3 (Station: 118+00)



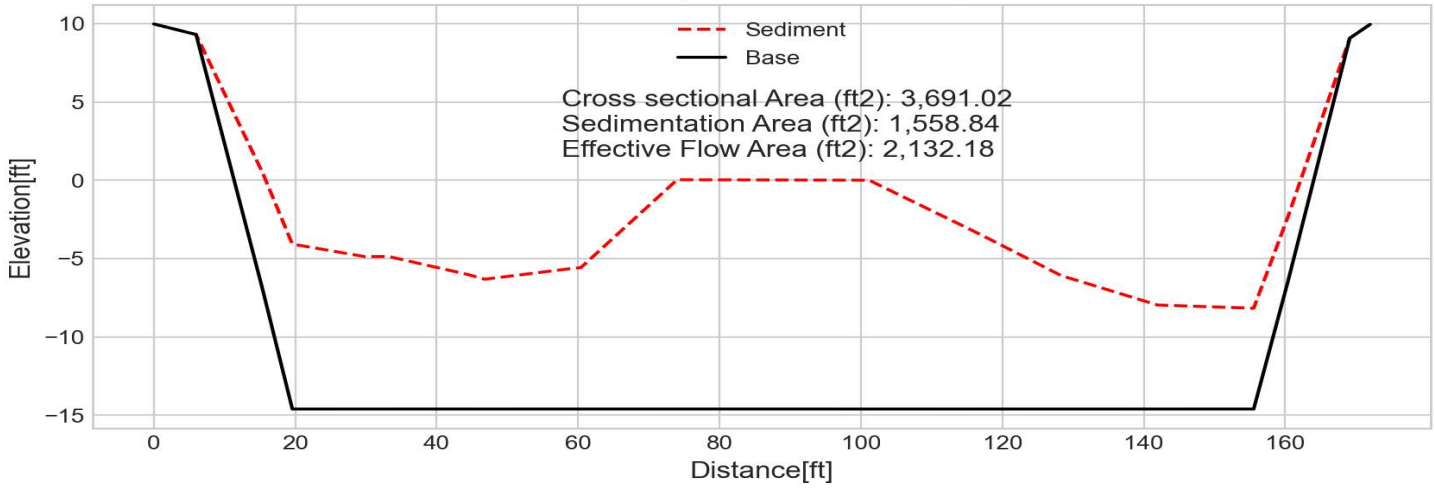
Year 3 (Station: 119+00)



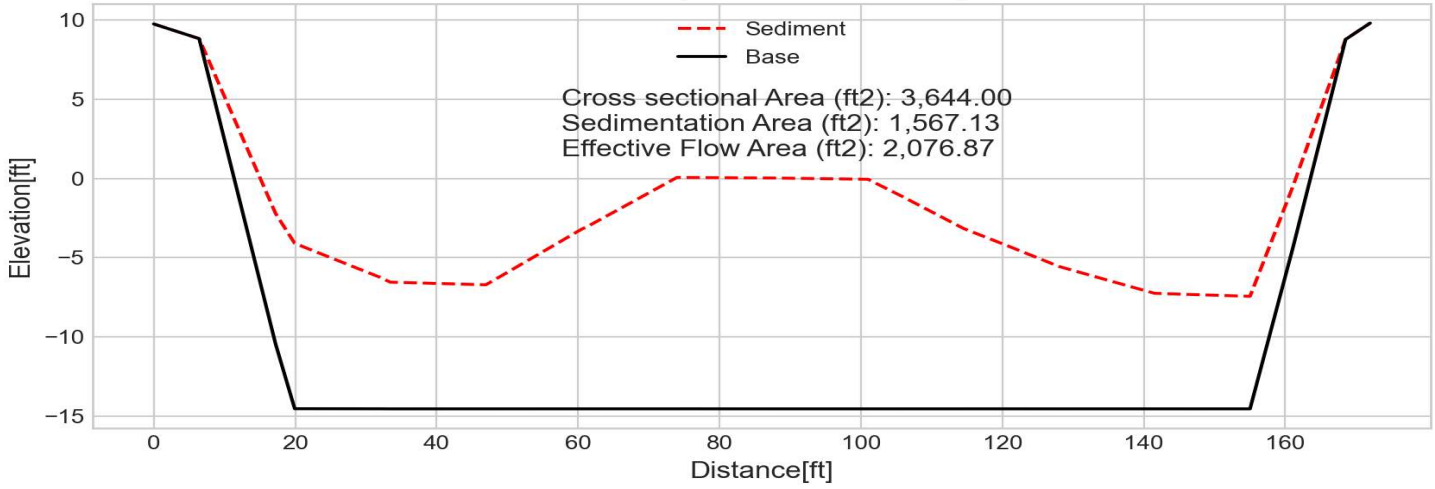
Year 3 (Station: 120+00)



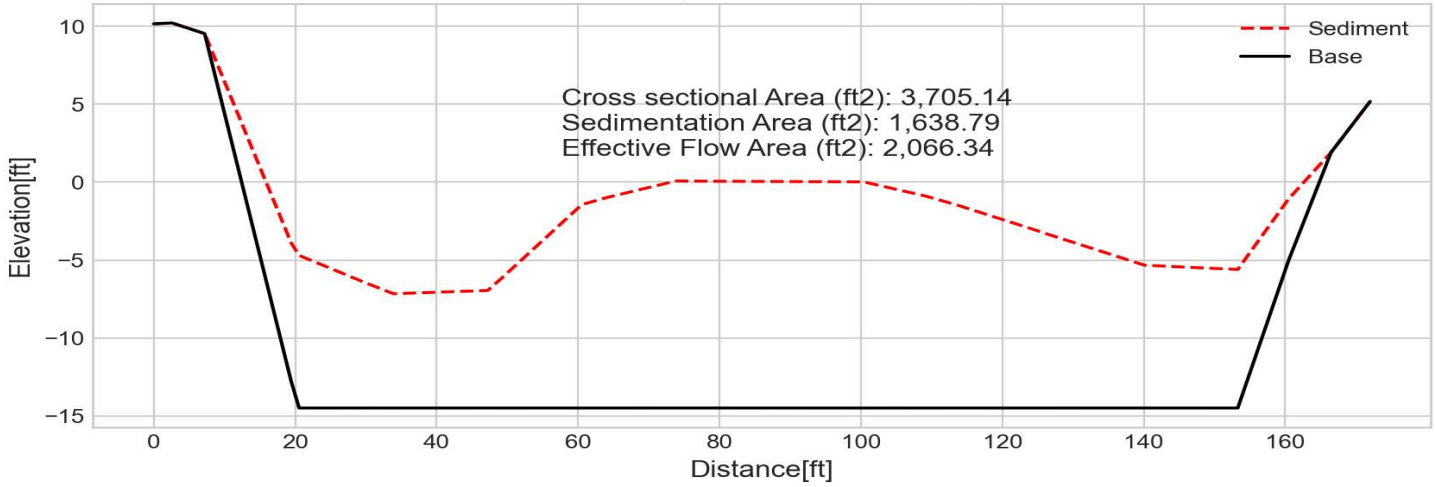
Year 3 (Station: 121+00)



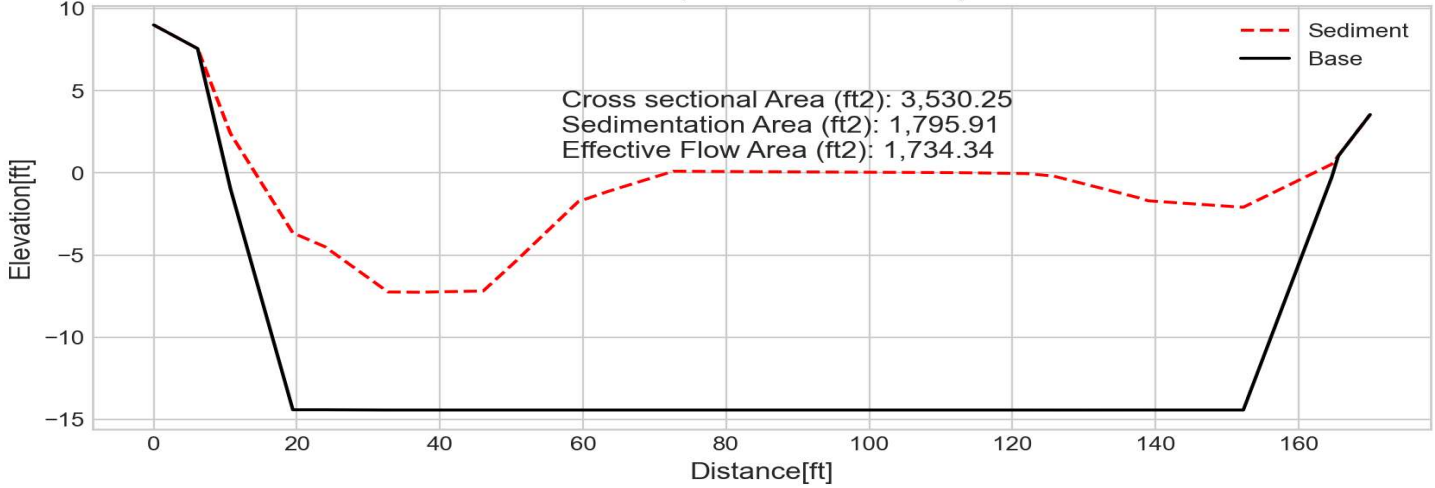
Year 3 (Station: 122+00)



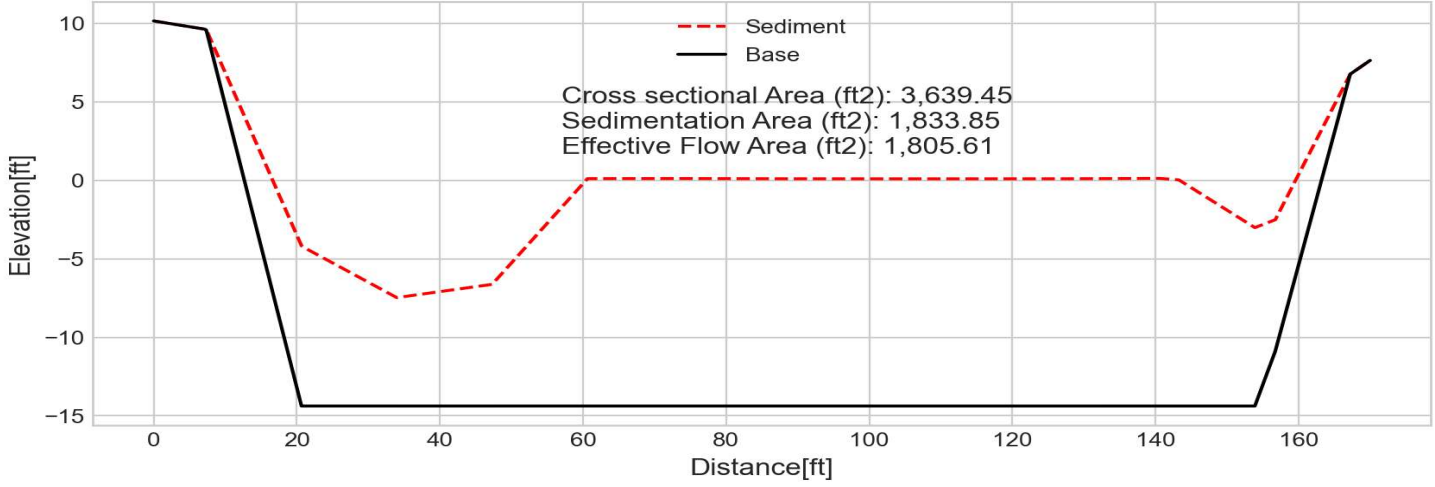
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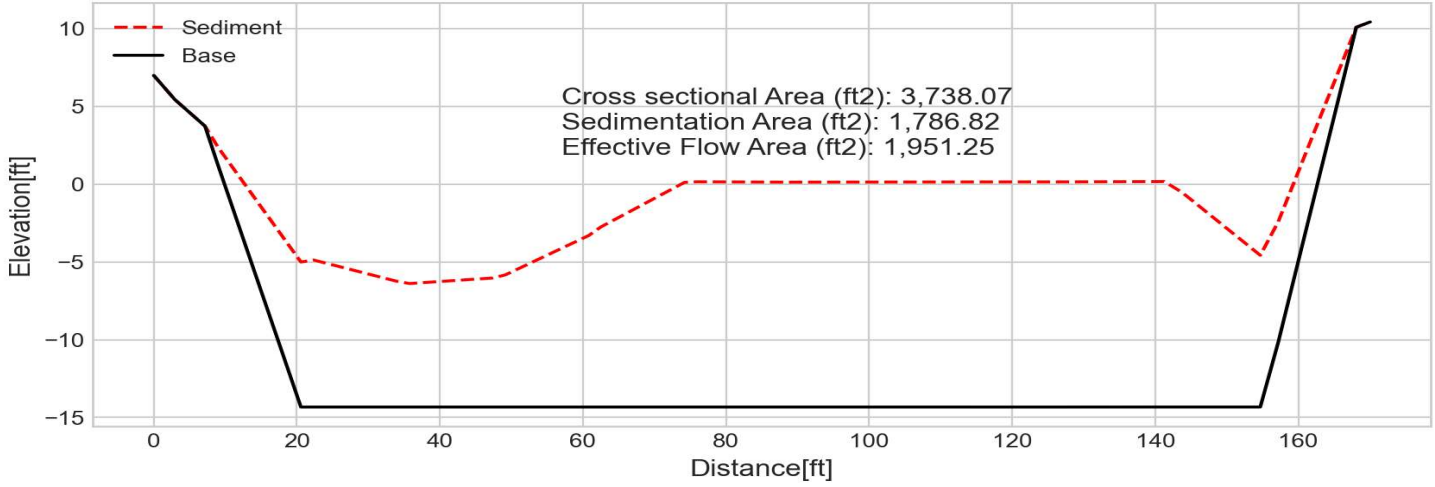
Year 3 (Station: 124+00)



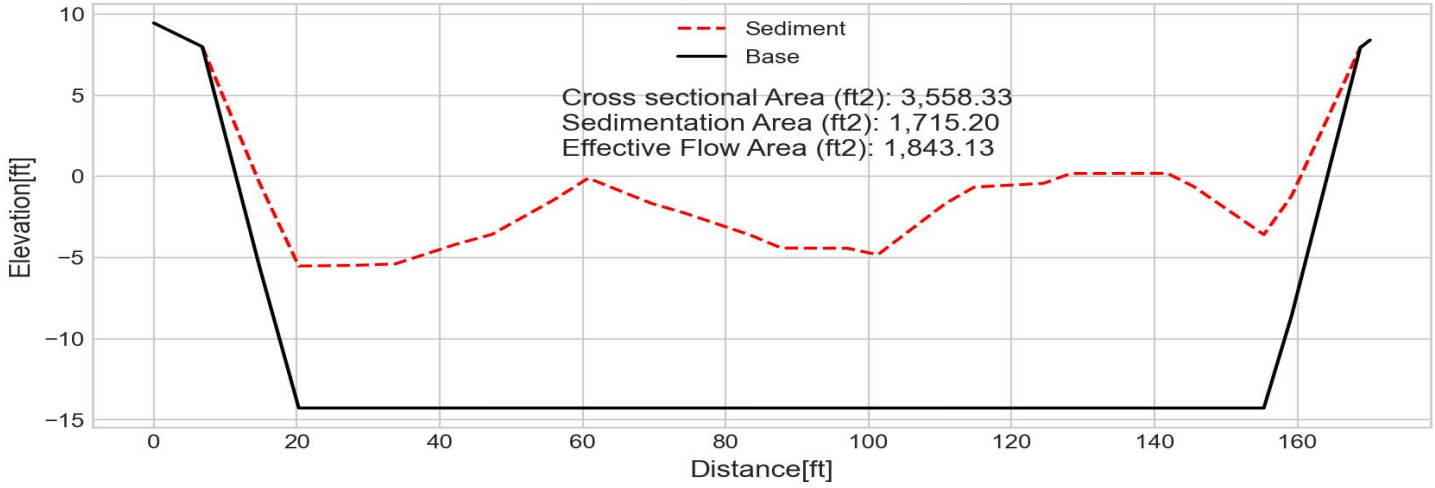
Year 3 (Station: 125+00)



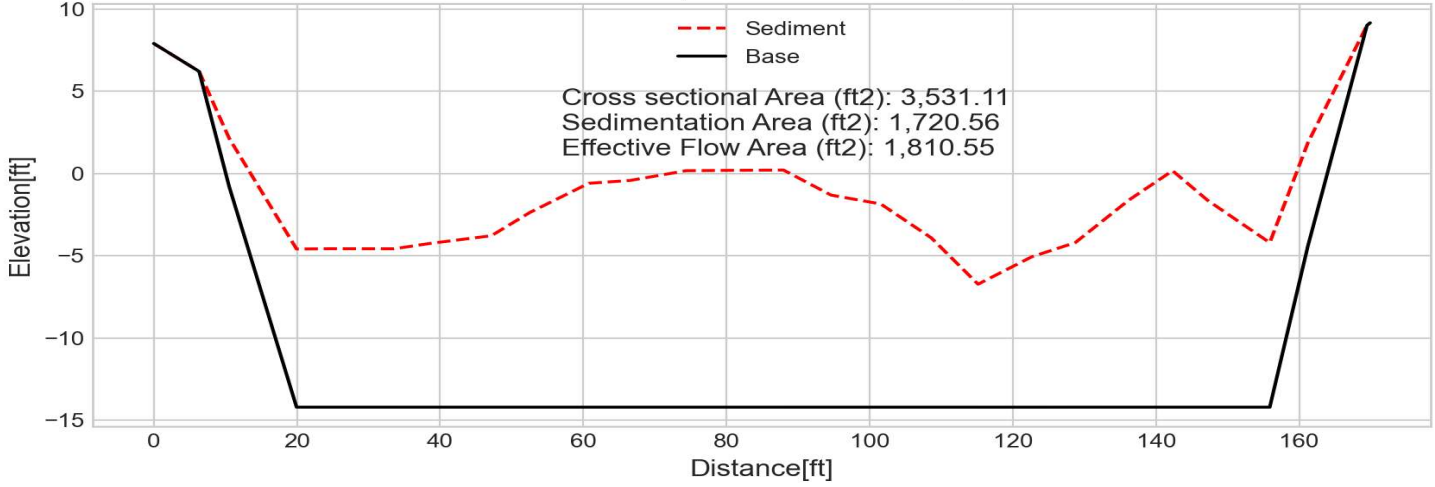
Year 3 (Station: 126+00)



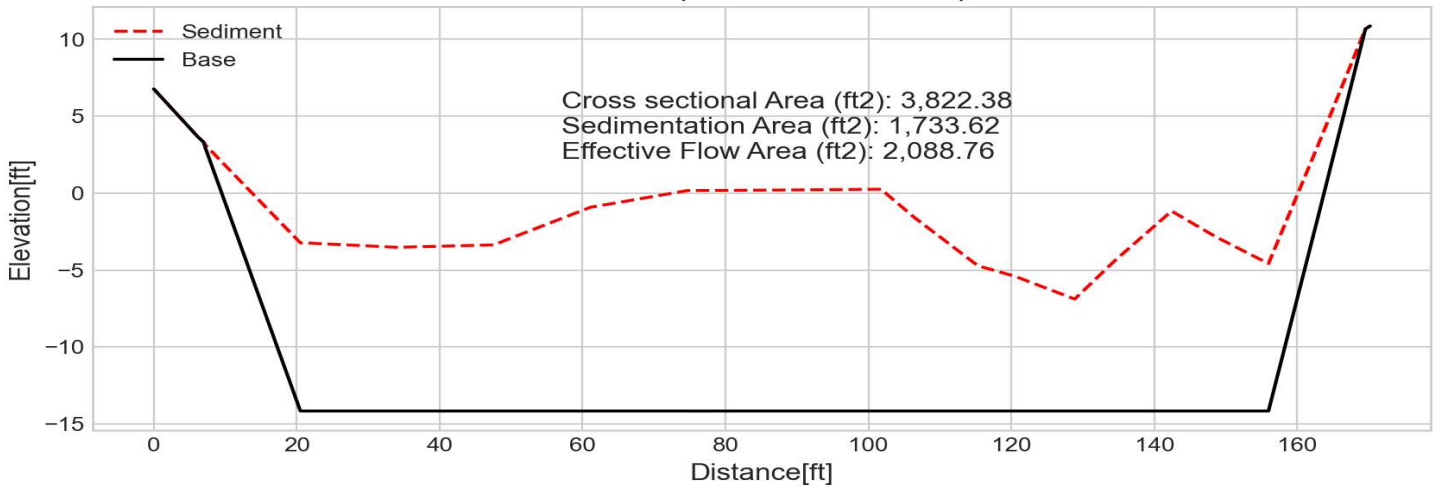
Year 3 (Station: 127+00)



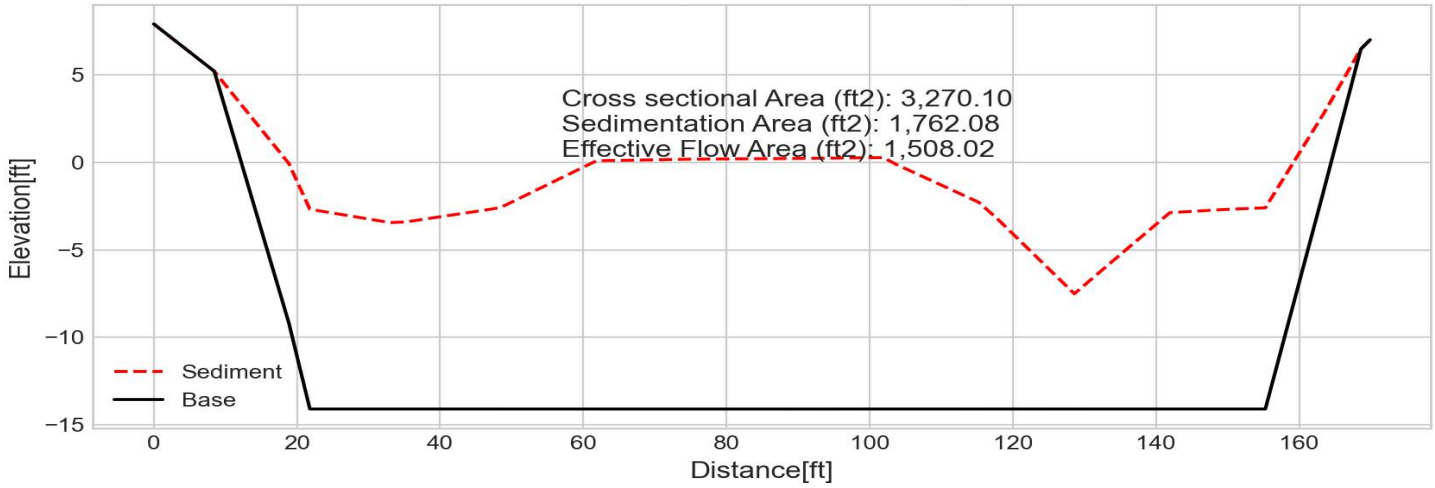
Year 3 (Station: 128+00)



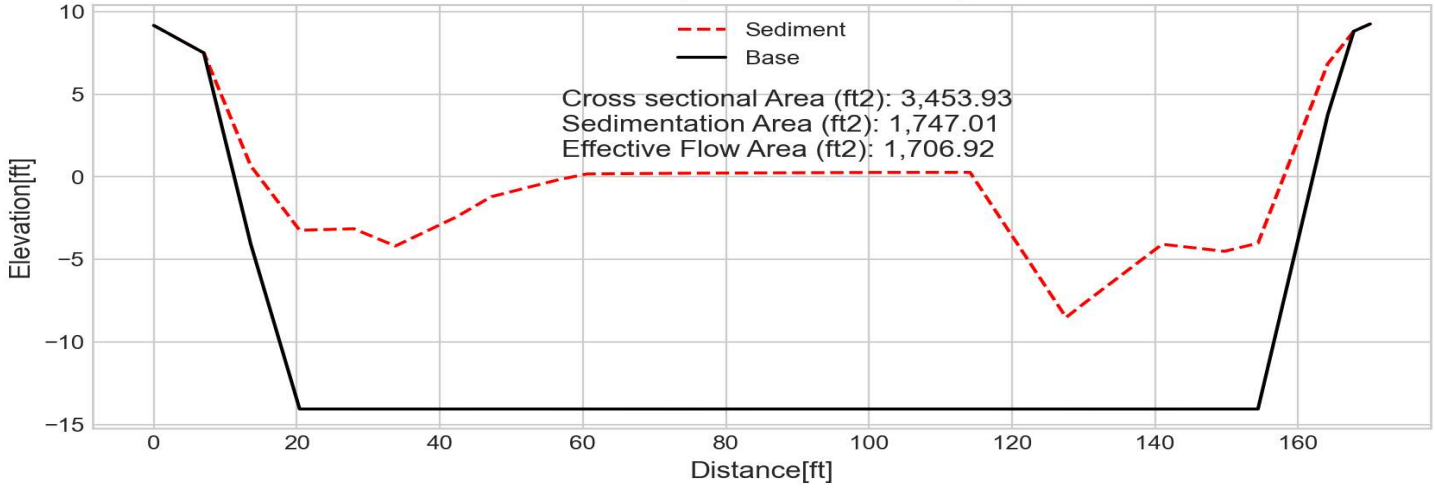
Year 3 (Station: 129+00)



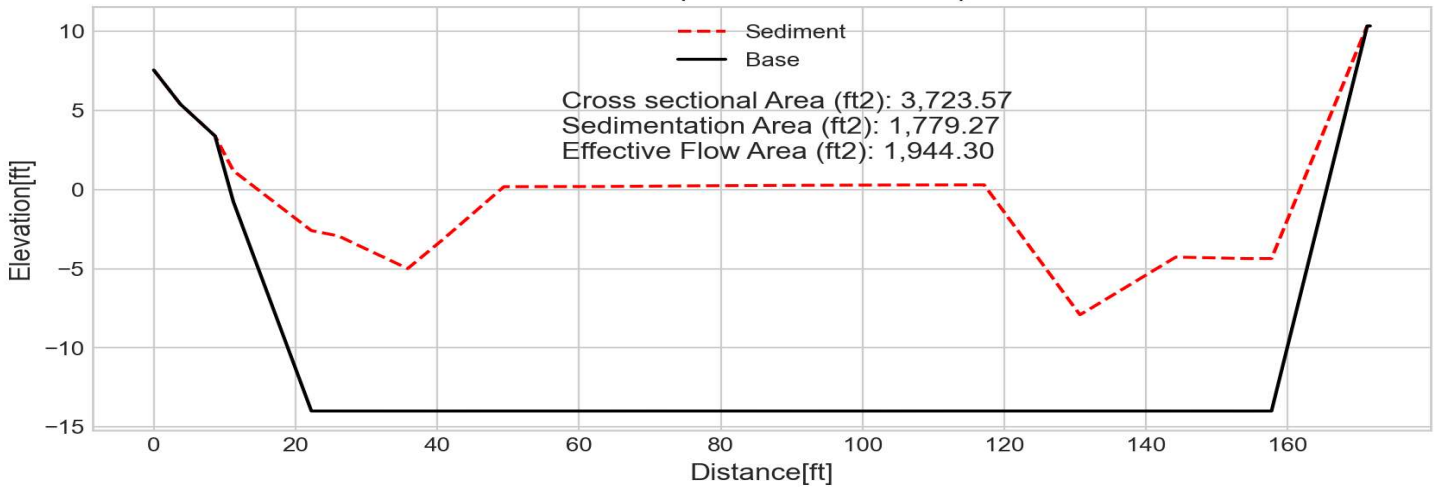
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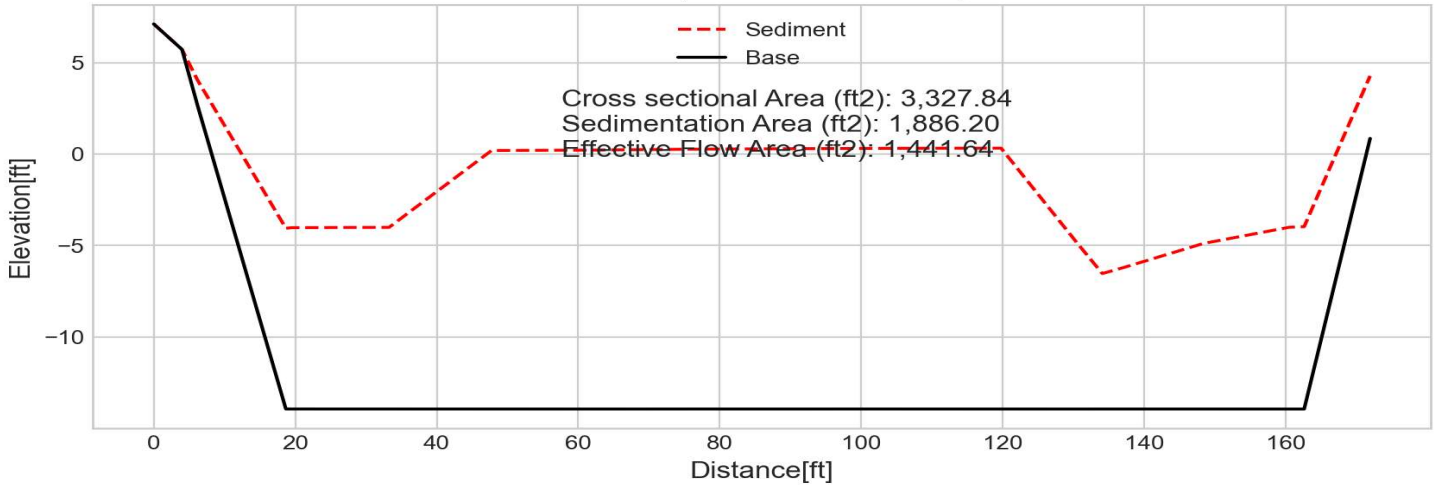
Year 3 (Station: 131+00)



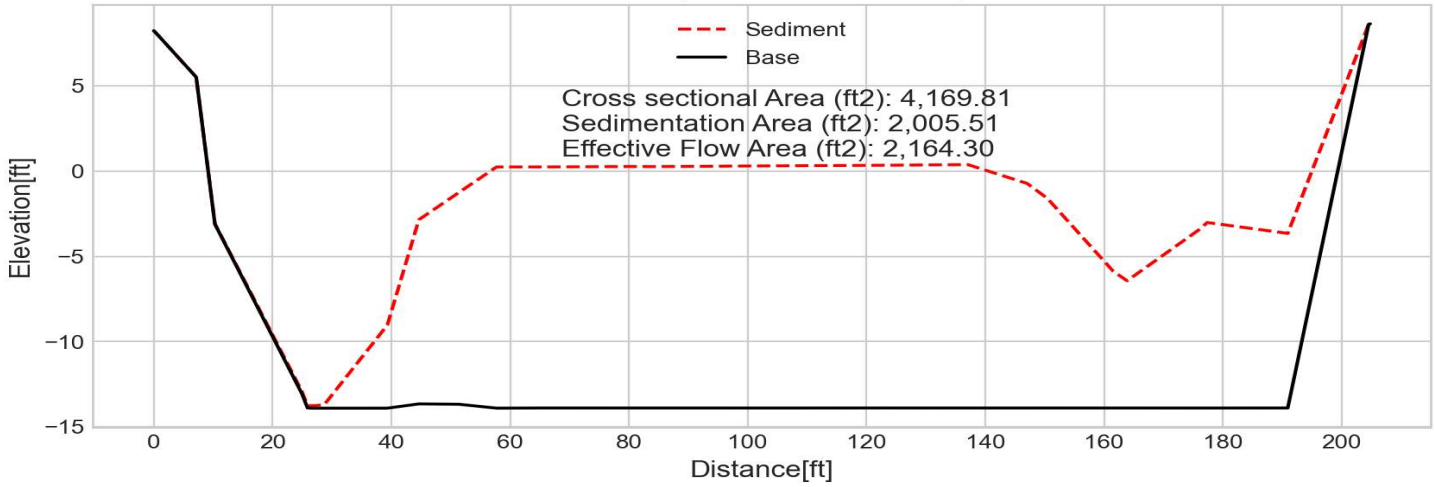
Year 3 (Station: 132+00)



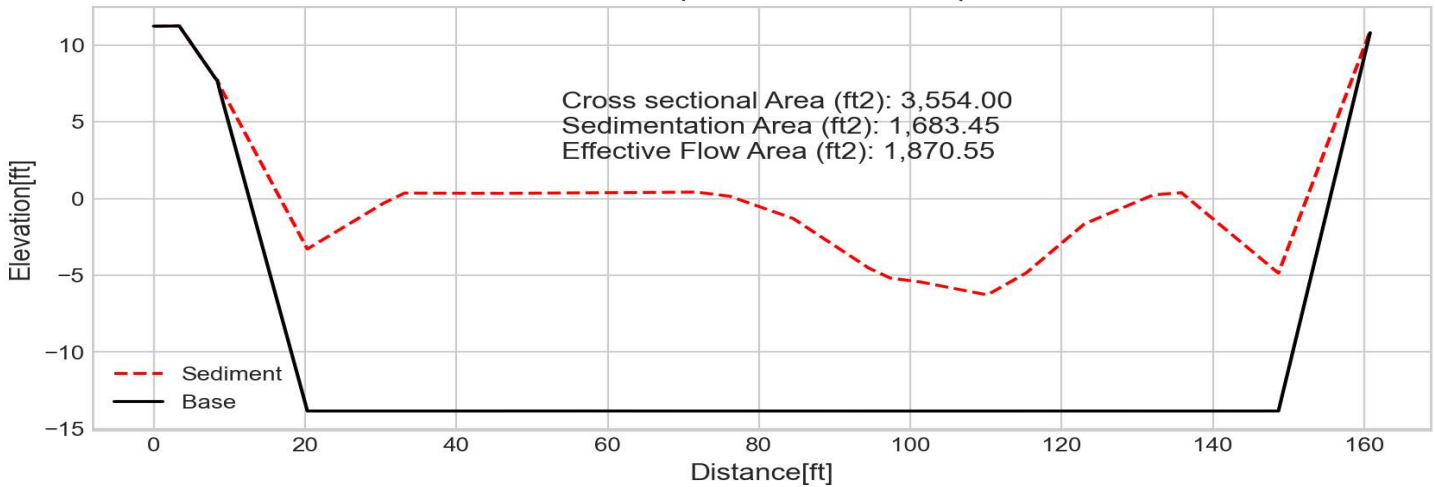
Year 3 (Station: 133+00)



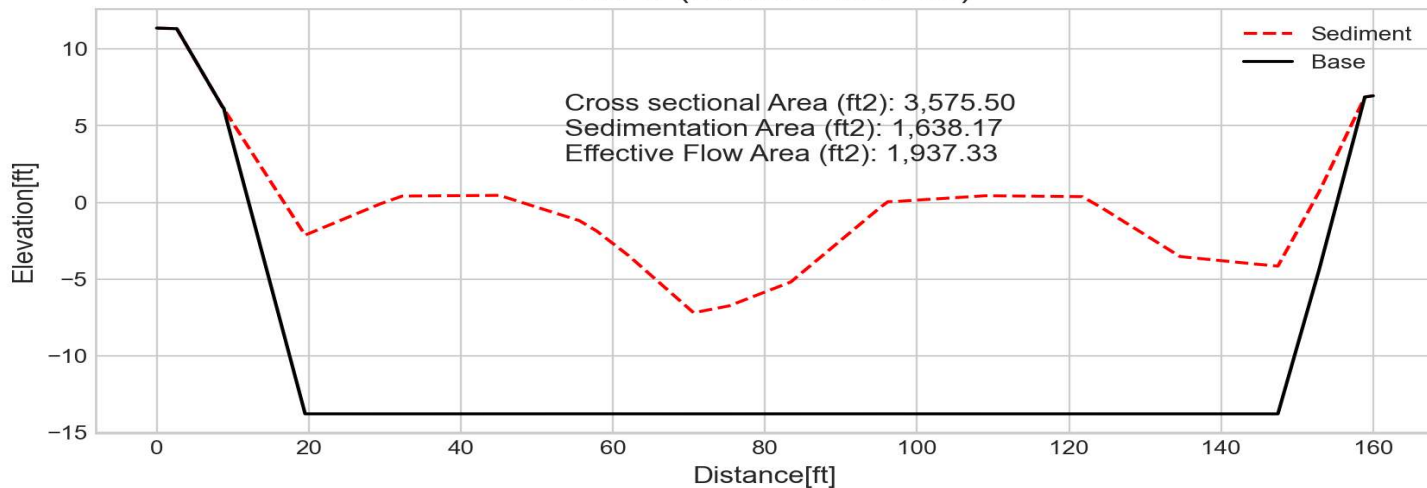
Year 3 (Station: 134+00)



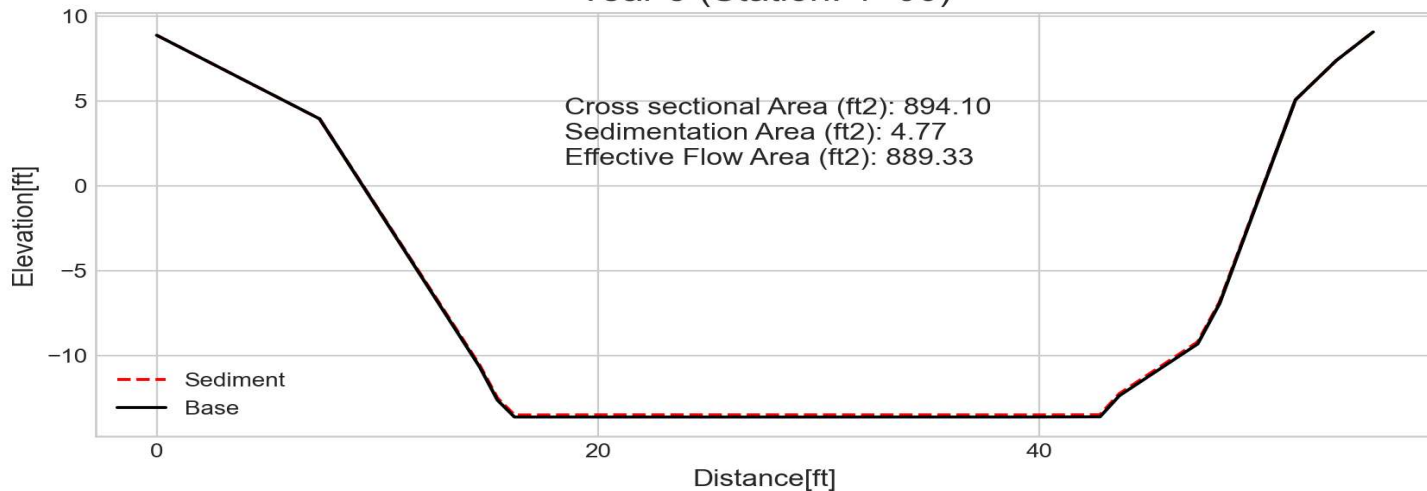
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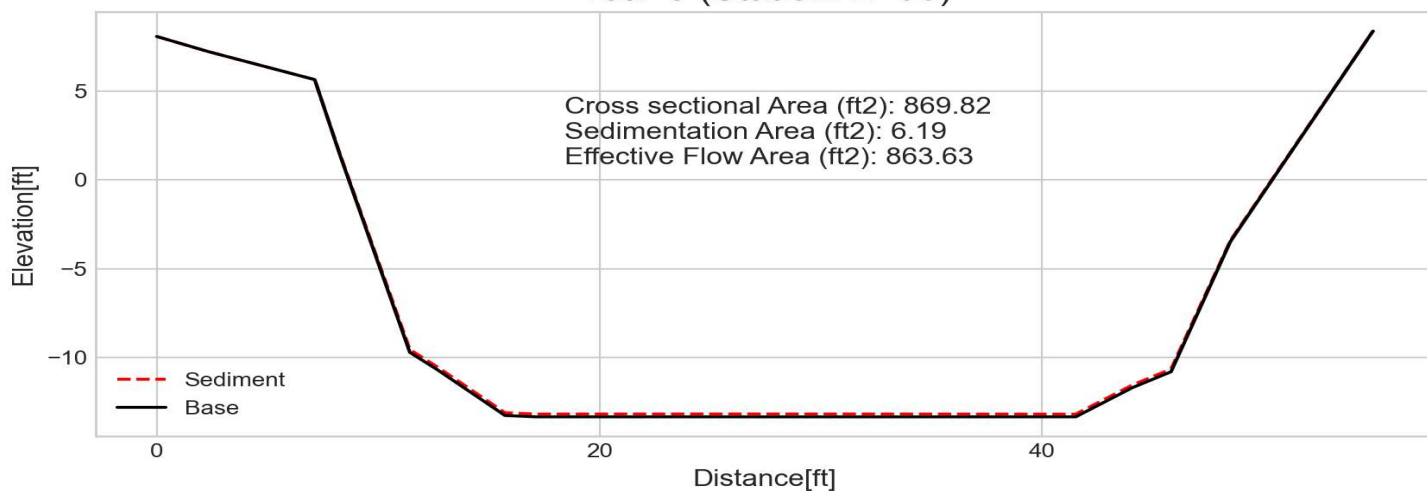
Year 3 (Station: 136+00)



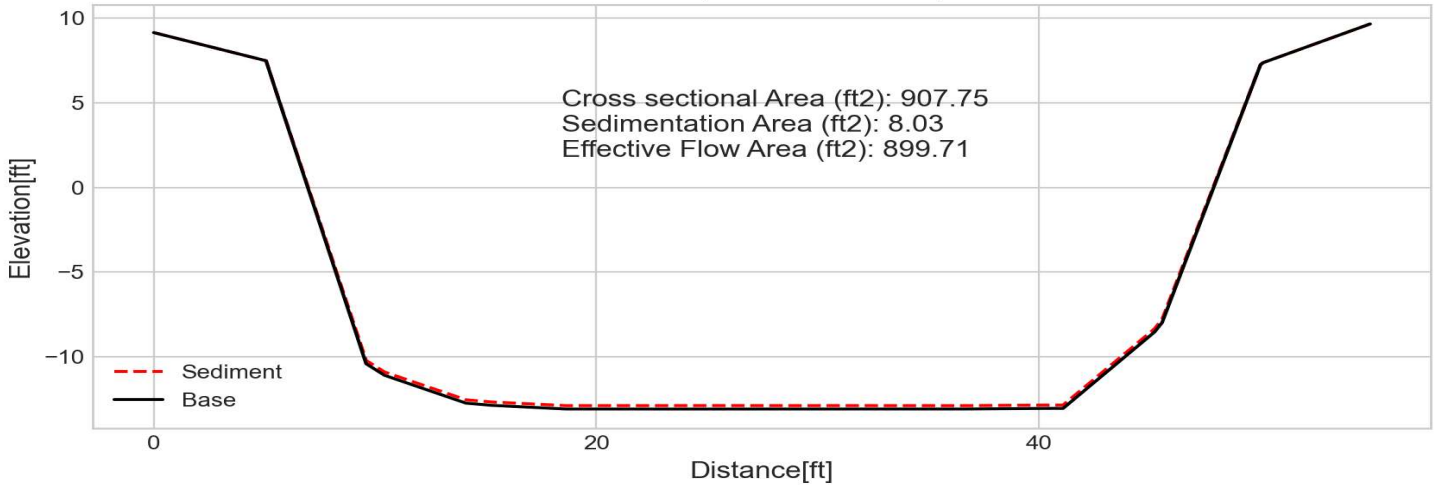
Year 3 (Station: 1+00)



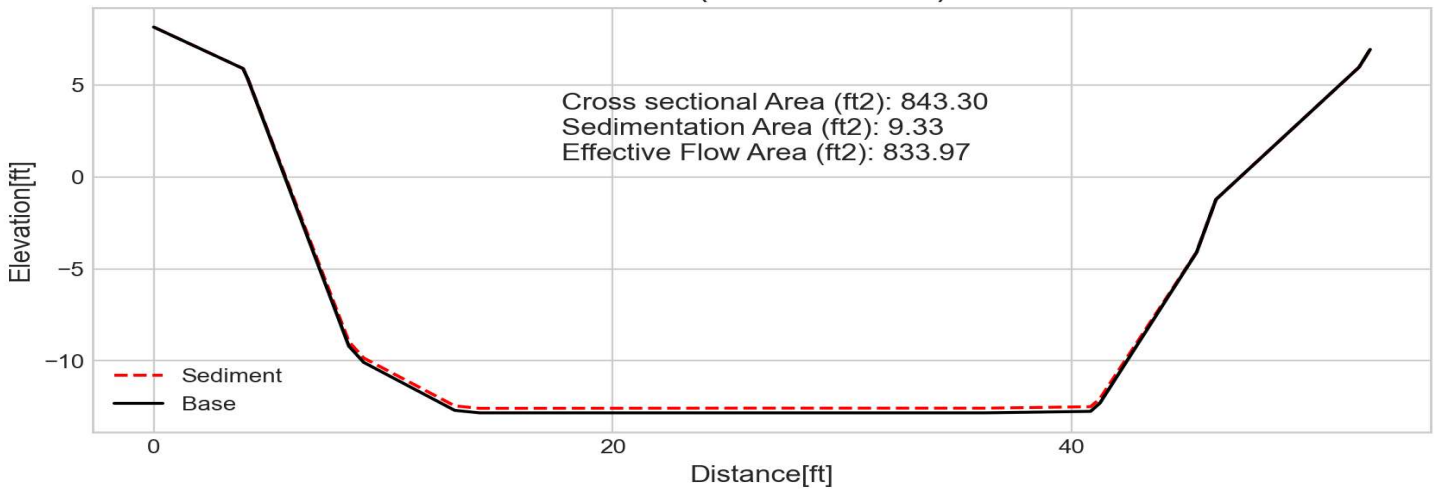
Year 3 (Station: 2+00)



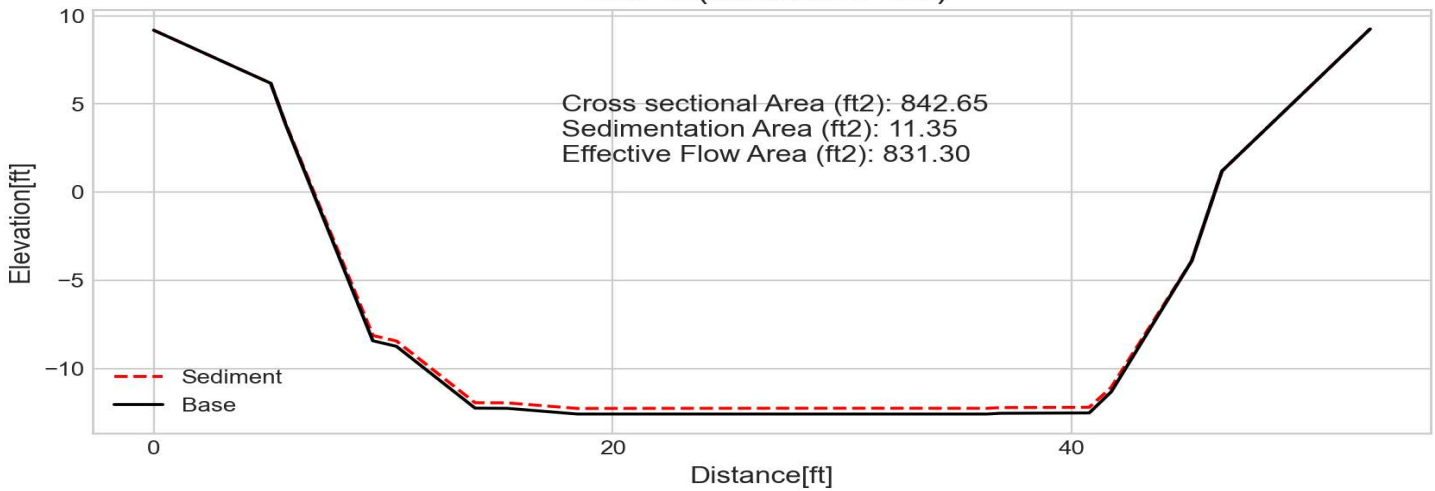
Year 3 (Station: 3+00)



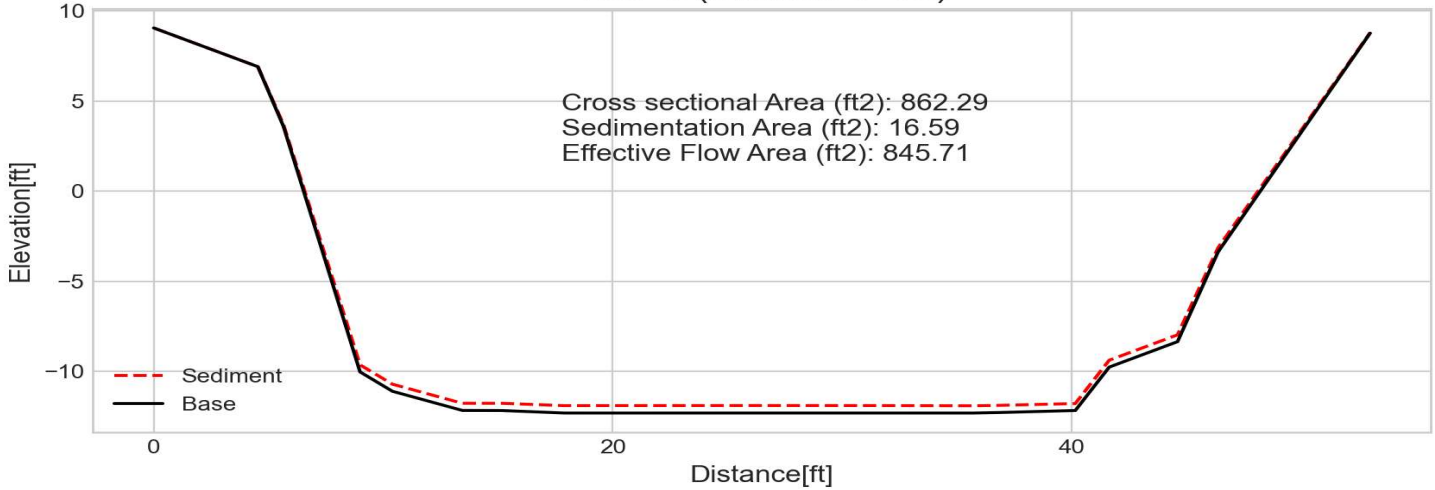
Year 3 (Station: 4+00)



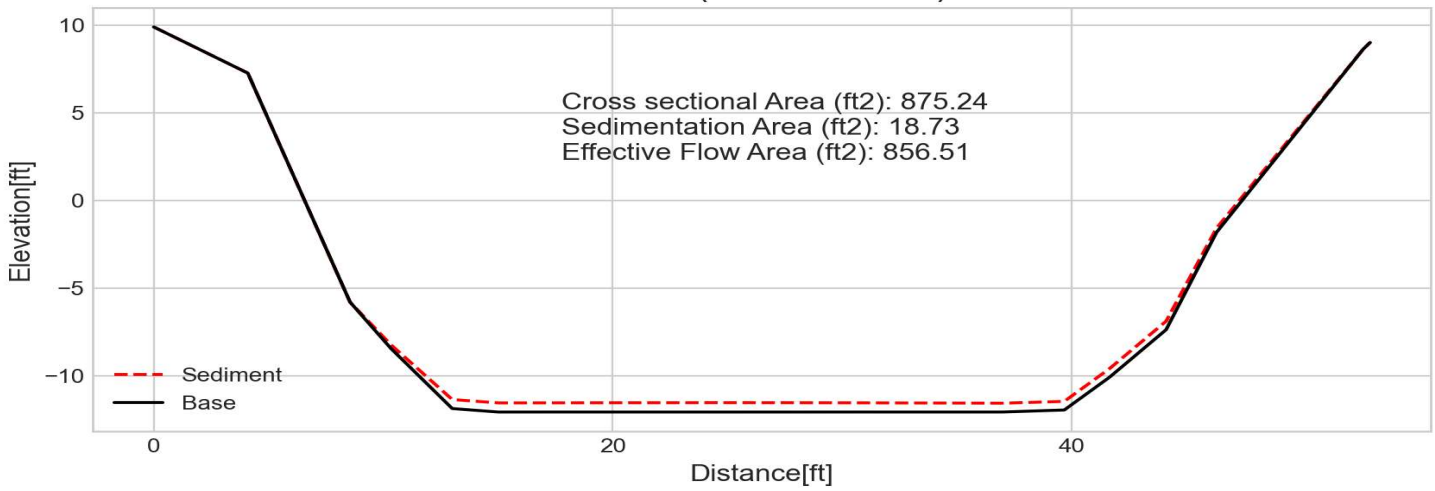
Year 3 (Station: 5+00)



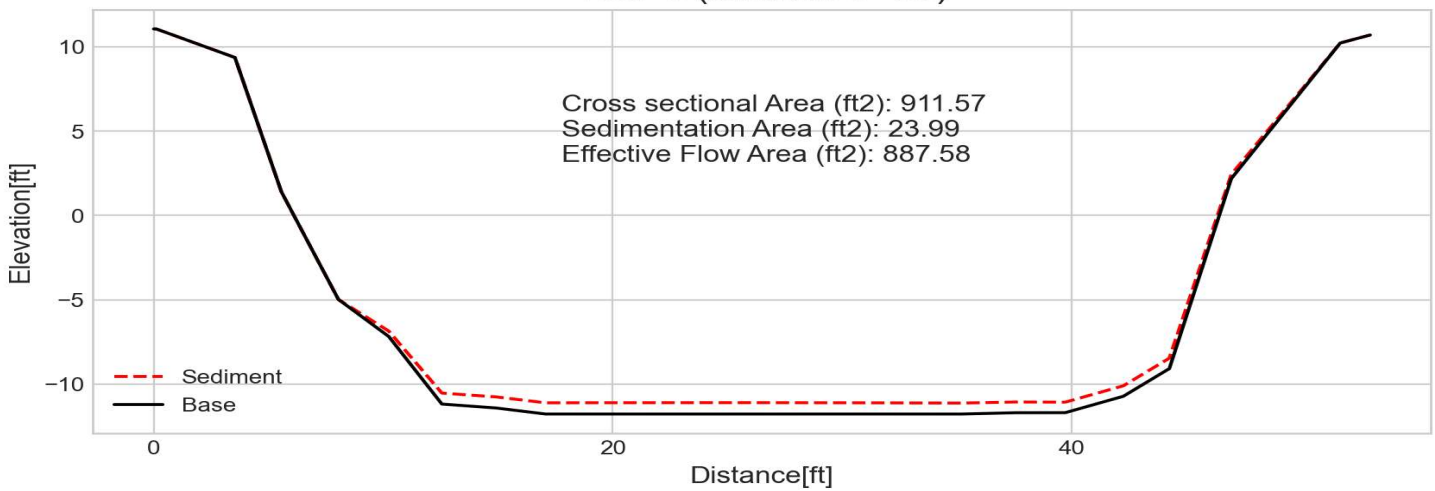
Year 3 (Station: 6+00)



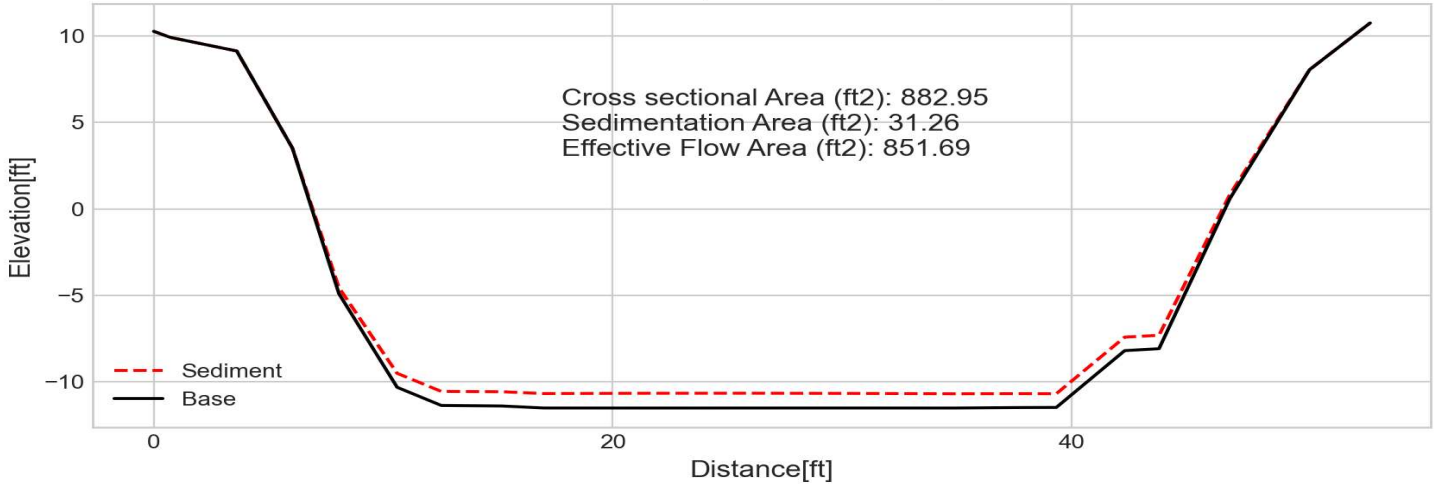
Year 3 (Station: 7+00)



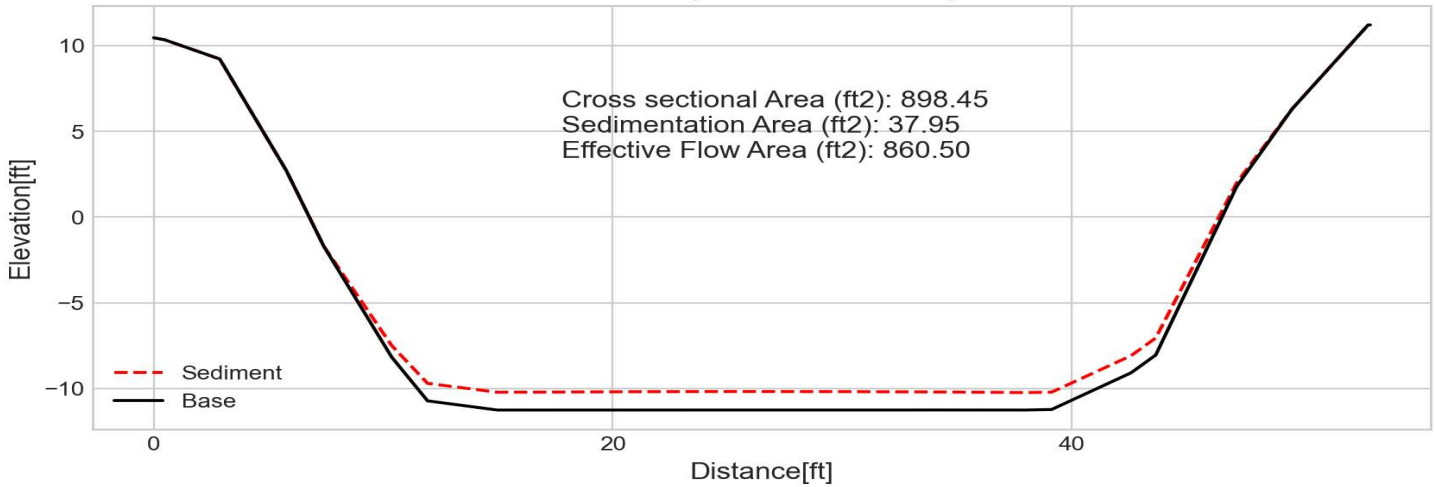
Year 3 (Station: 8+00)



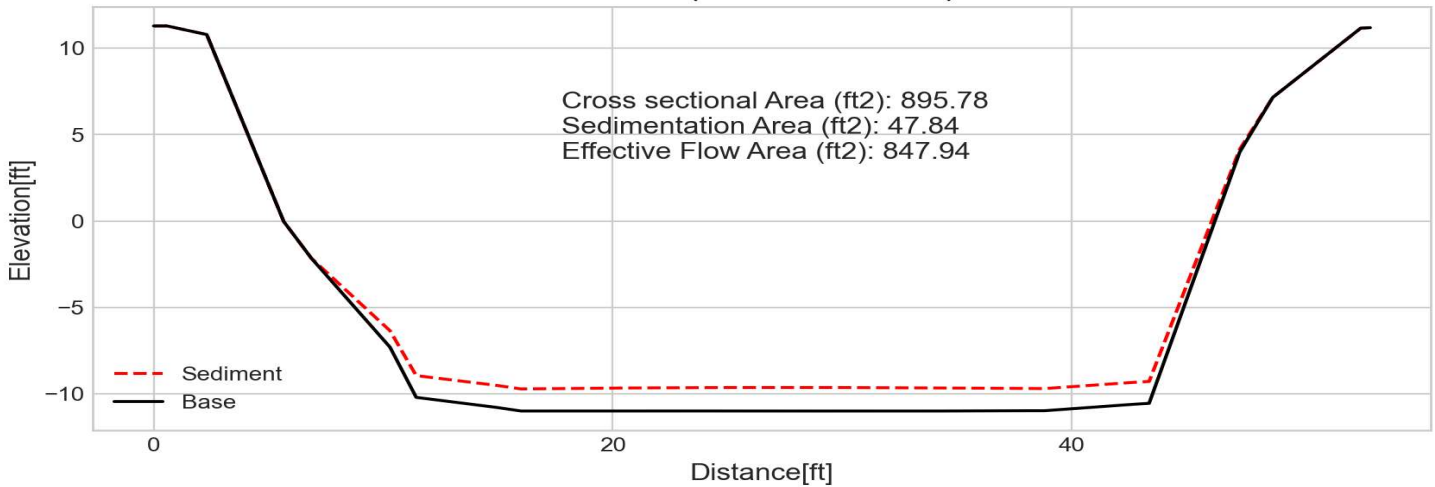
Year 3 (Station: 9+00)



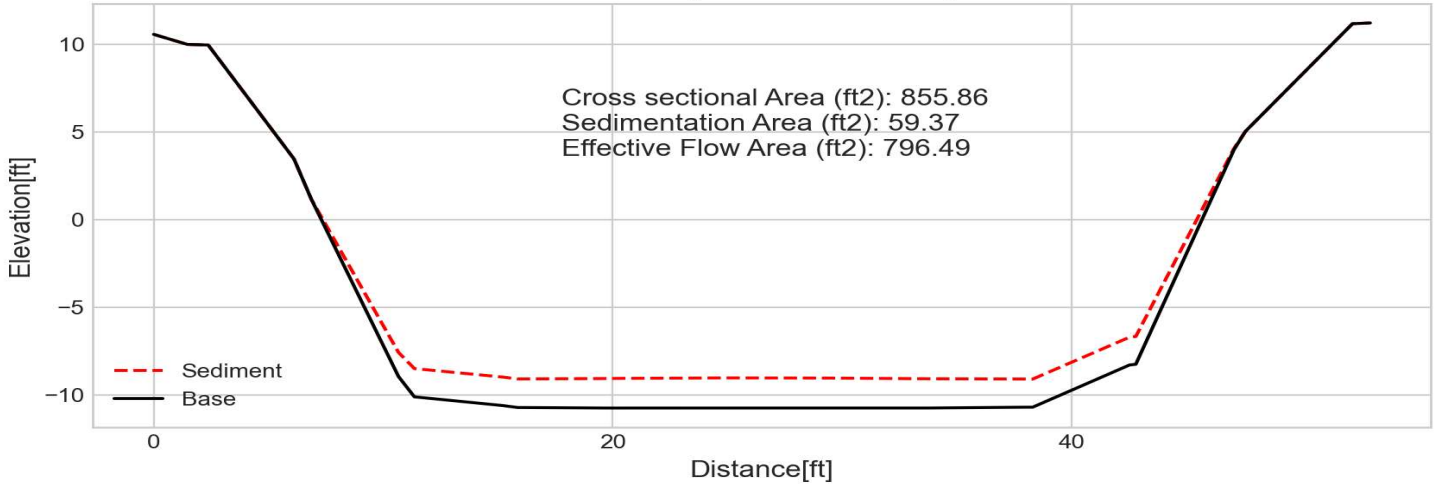
Year 3 (Station: 10+00)



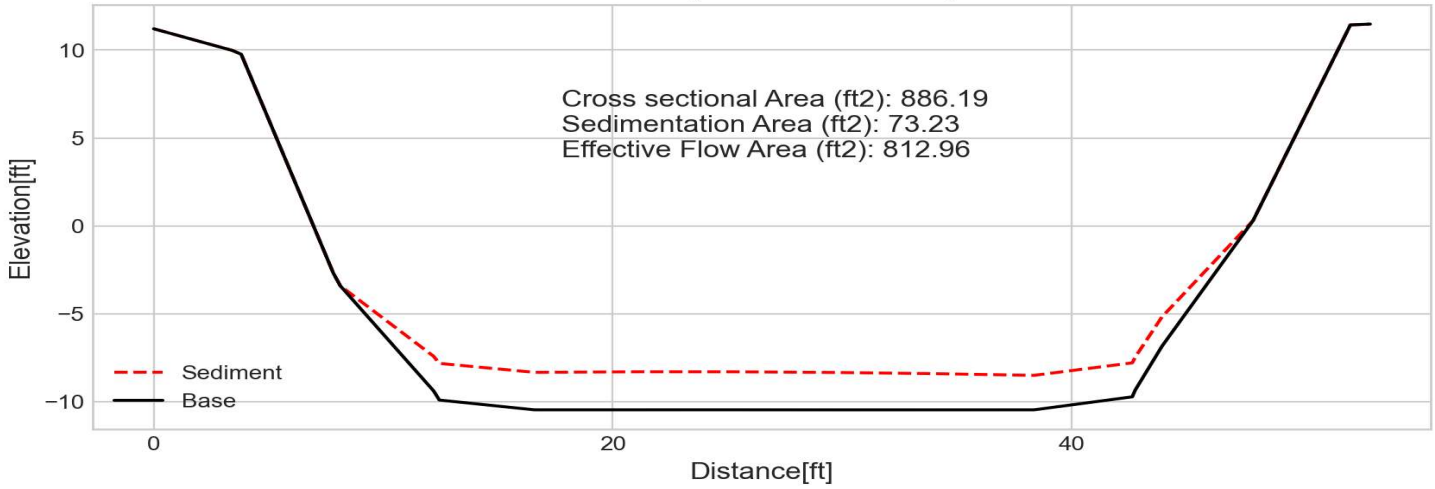
Year 3 (Station: 11+00)



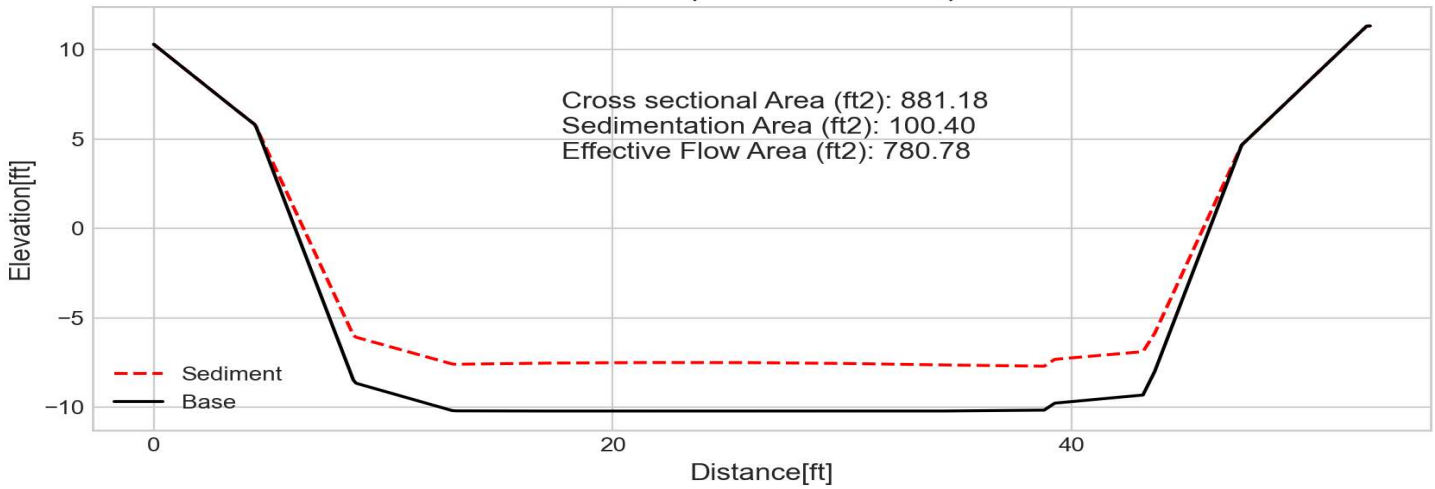
Year 3 (Station: 12+00)



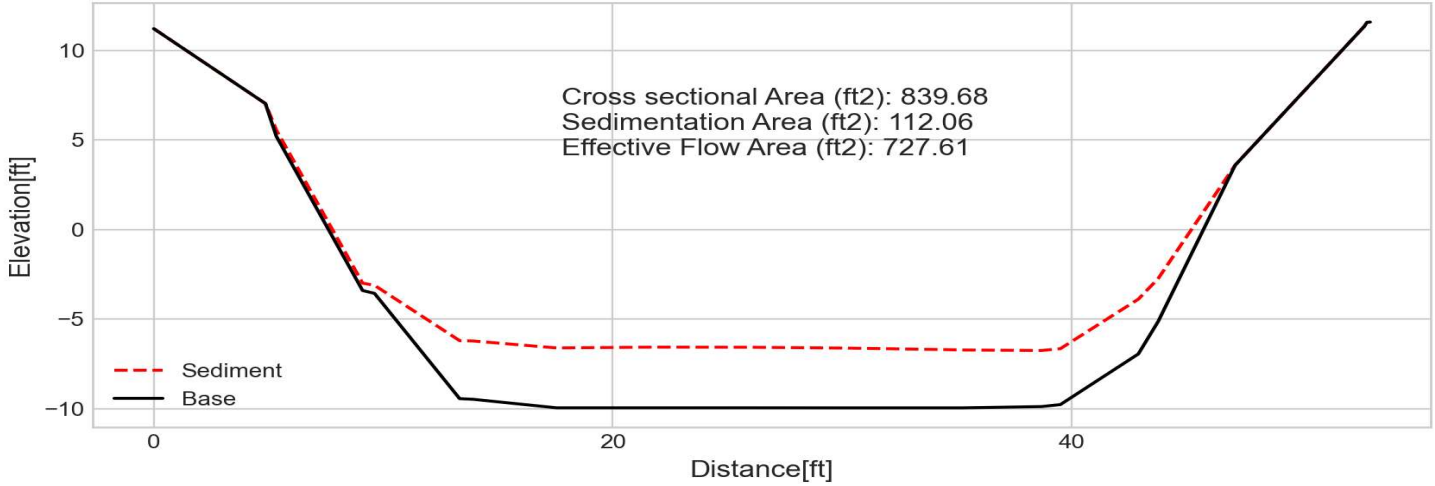
Year 3 (Station: 13+00)



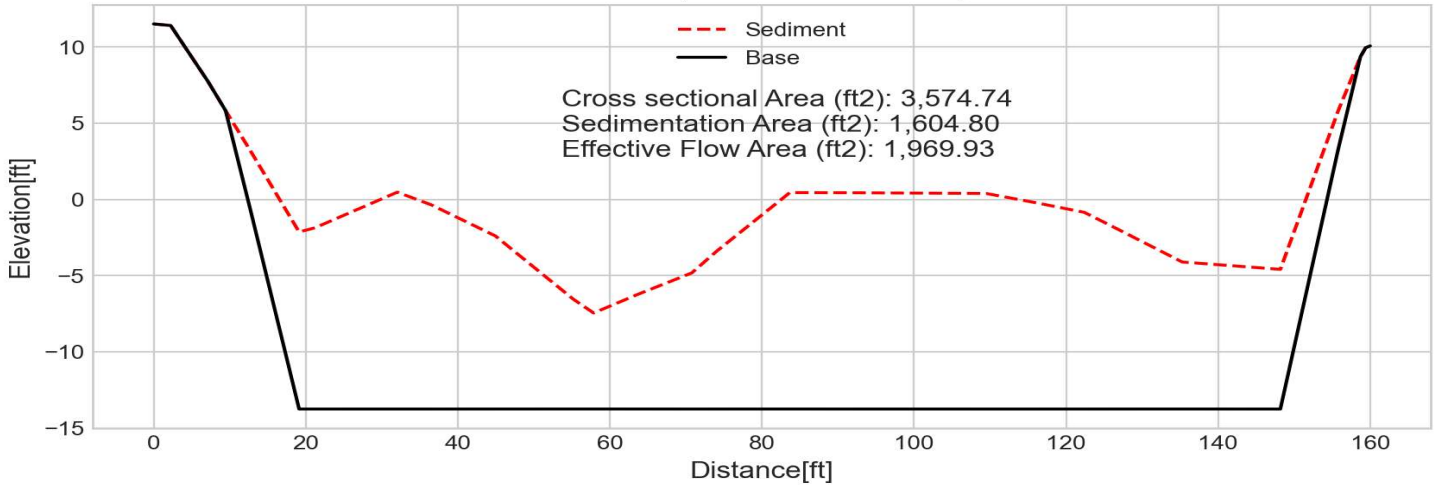
Year 3 (Station: 14+00)



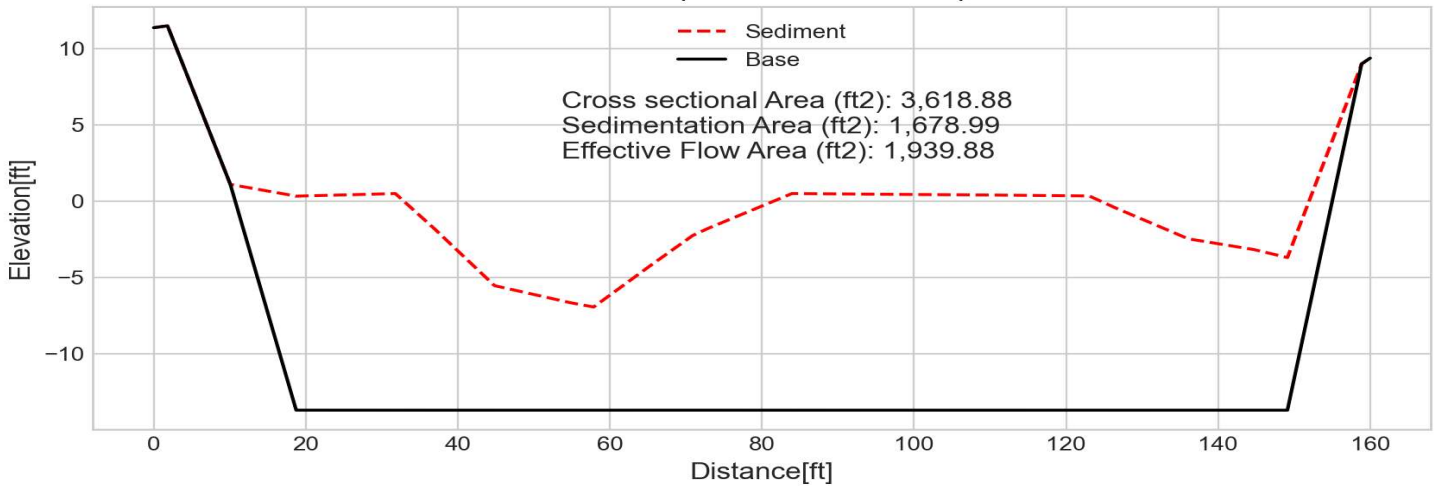
Year 3 (Station: 15+00)



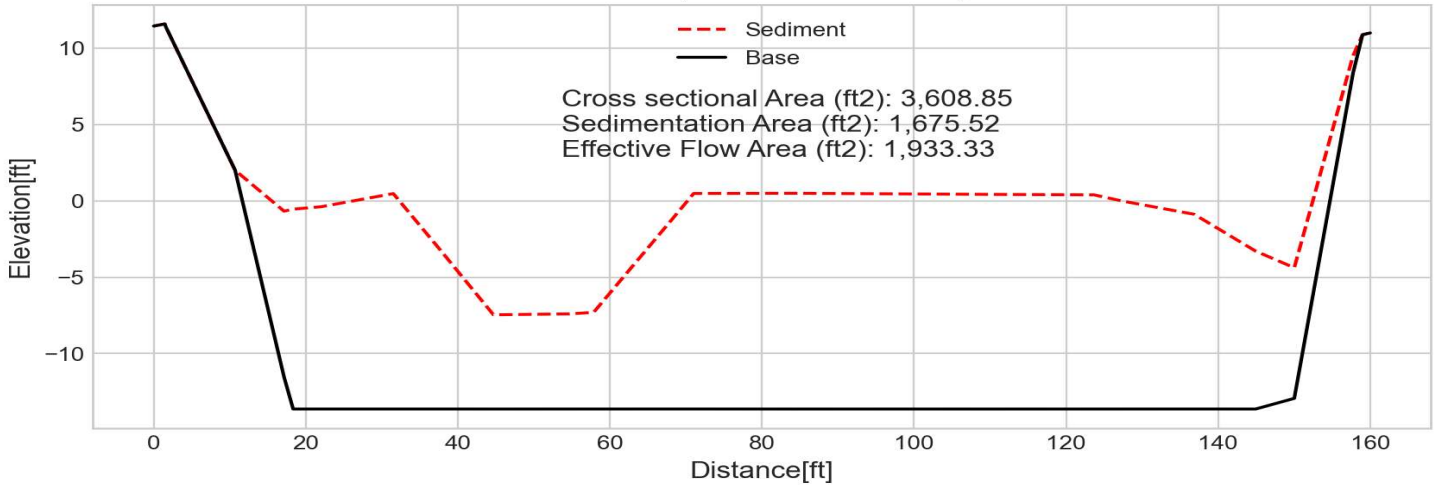
Year 3 (Station: 137+00)



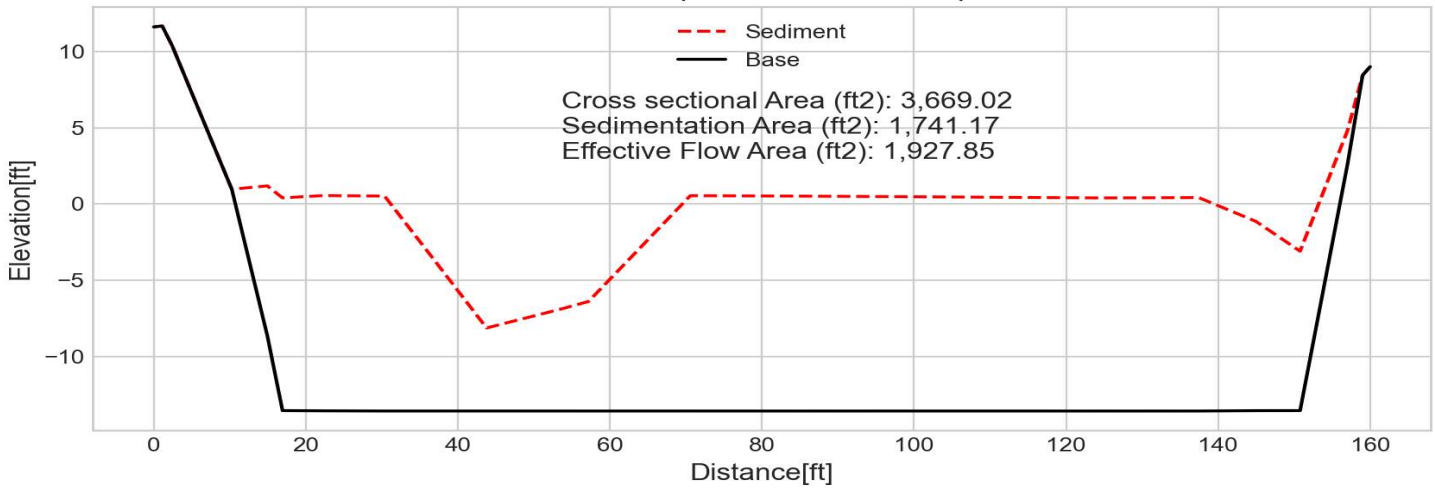
Year 3 (Station: 138+00)



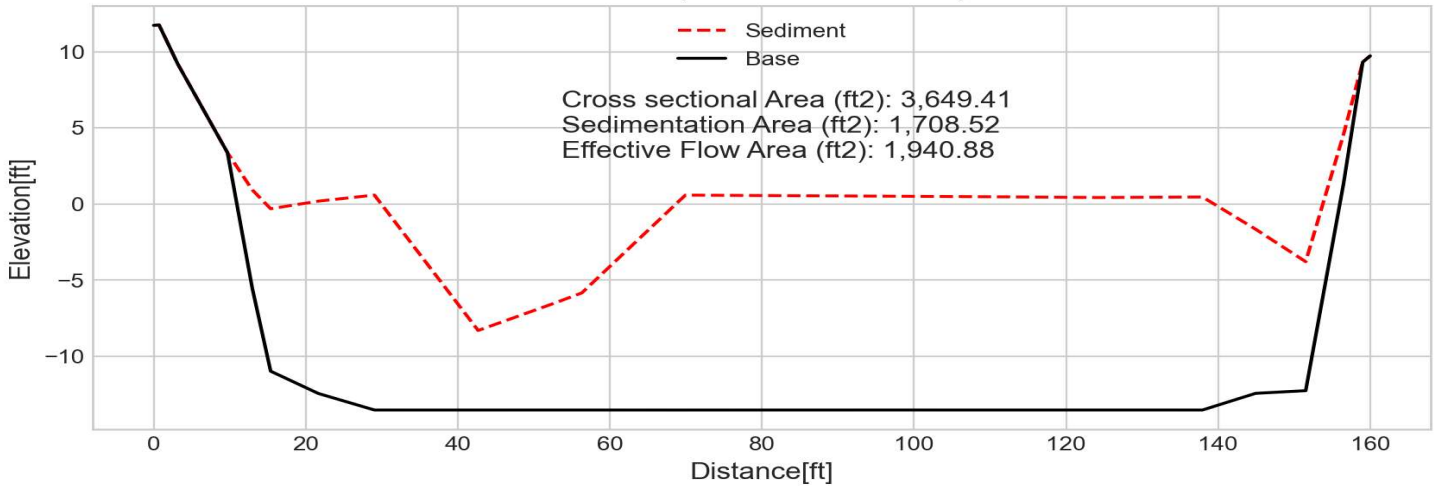
Year 3 (Station: 139+00)



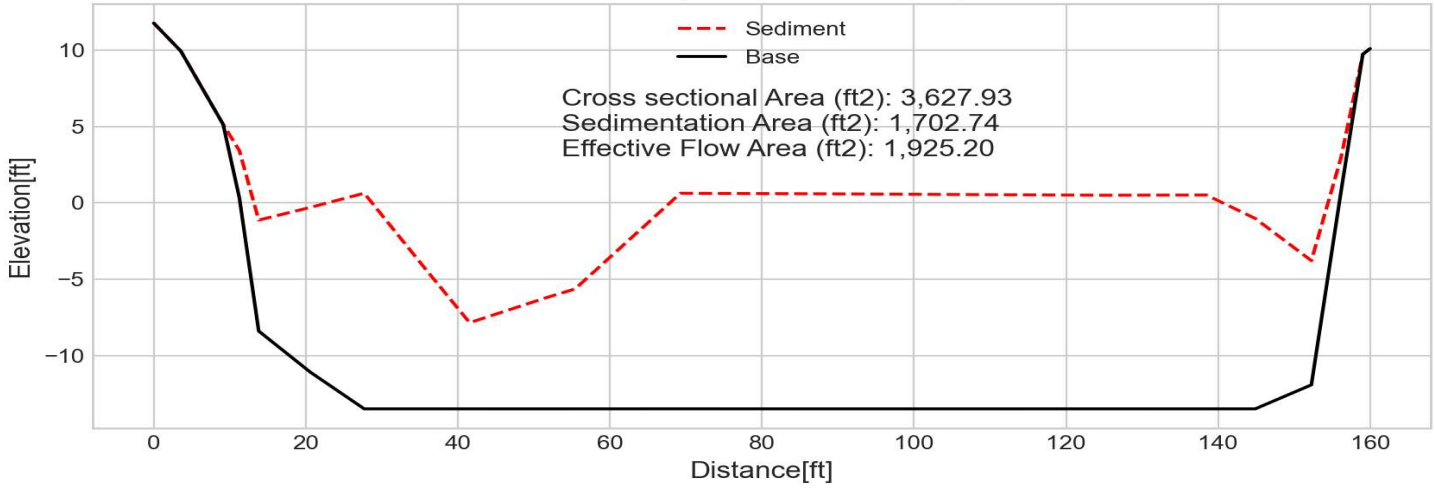
Year 3 (Station: 140+00)



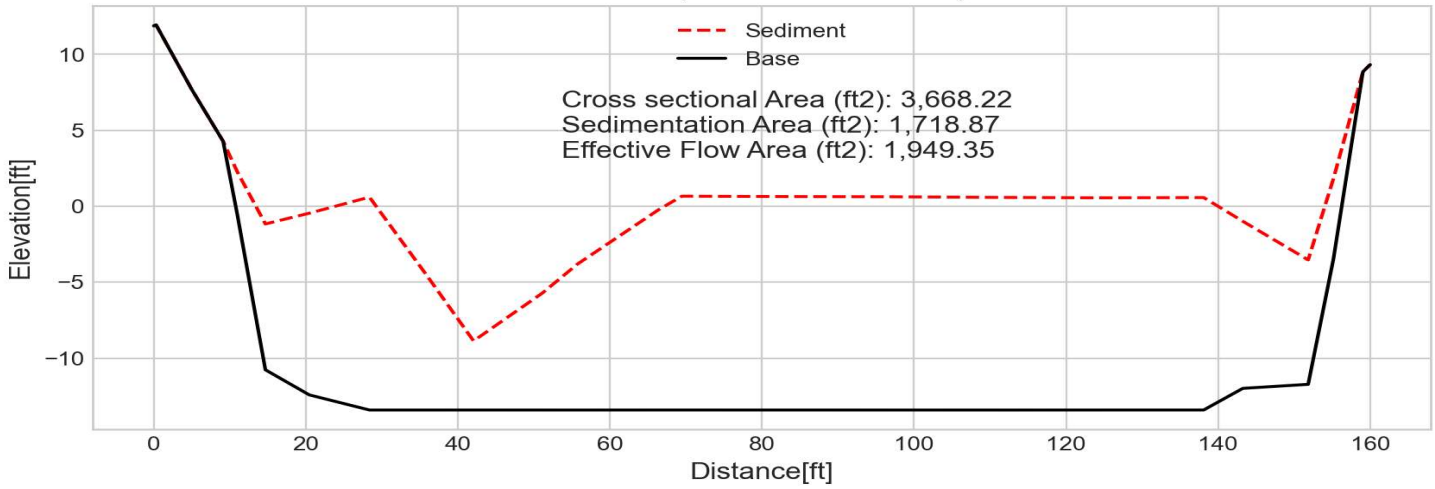
Year 3 (Station: 141+00)



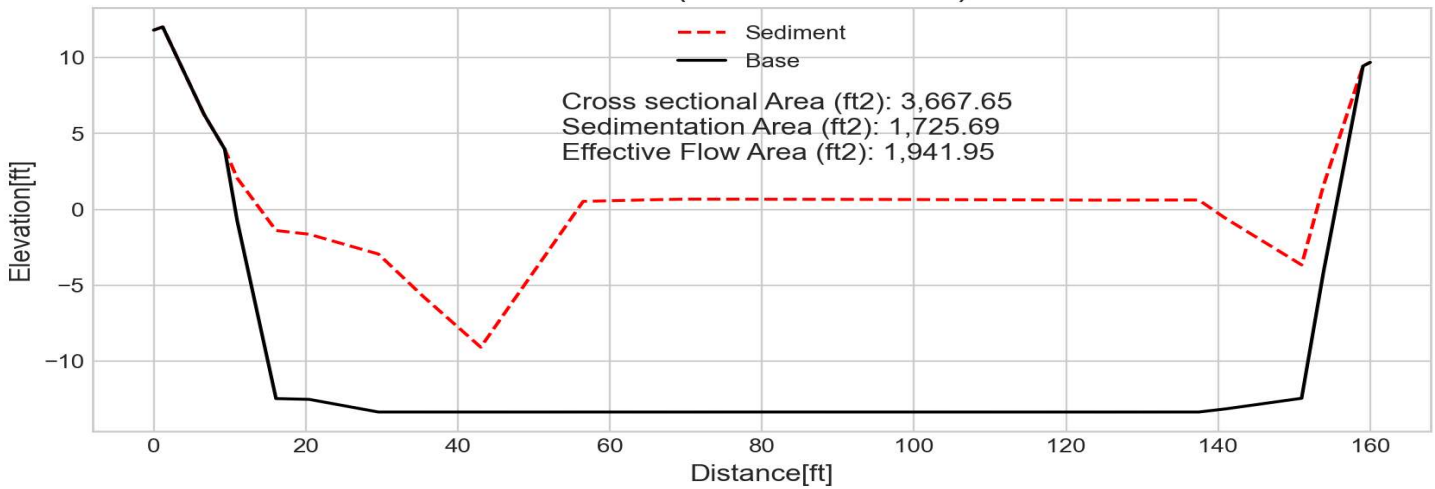
Year 3 (Station: 142+00)



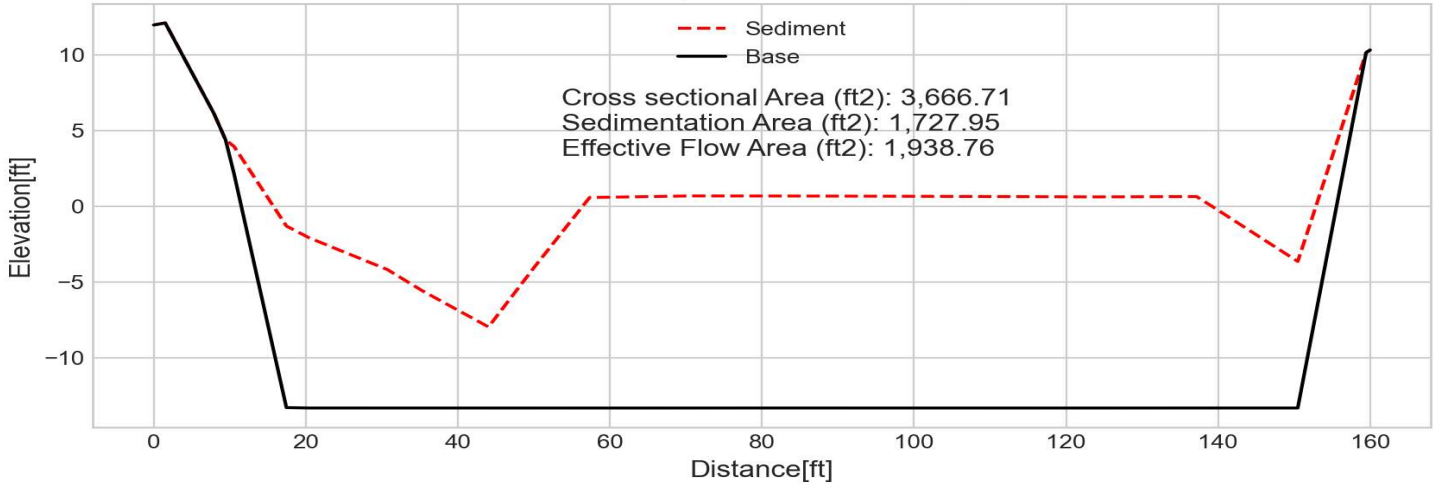
Year 3 (Station: 143+00)



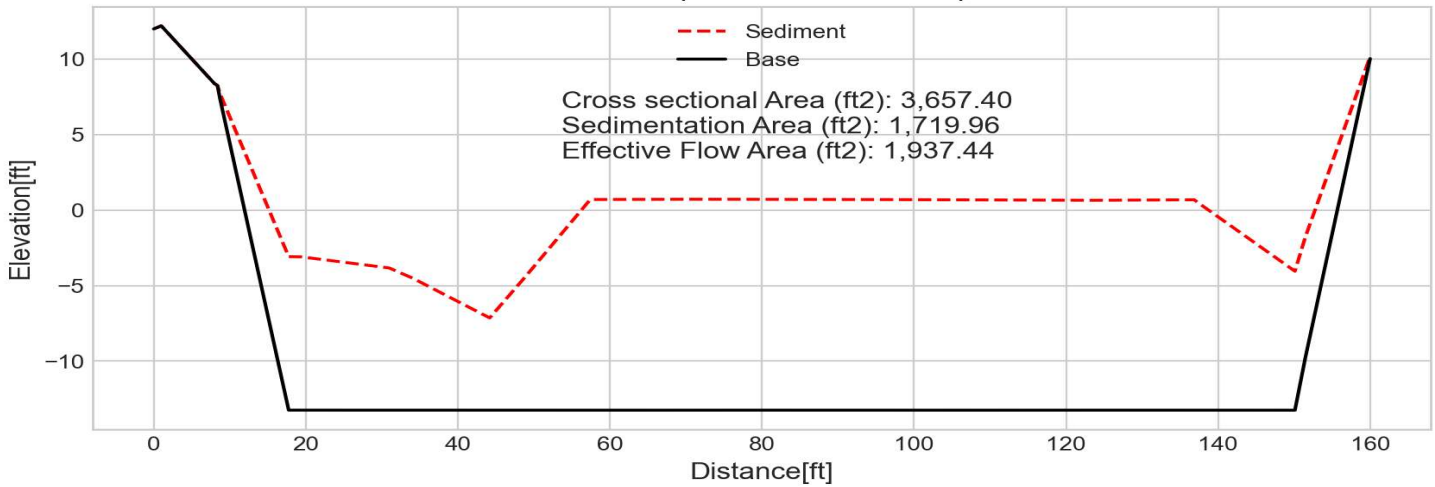
Year 3 (Station: 144+00)



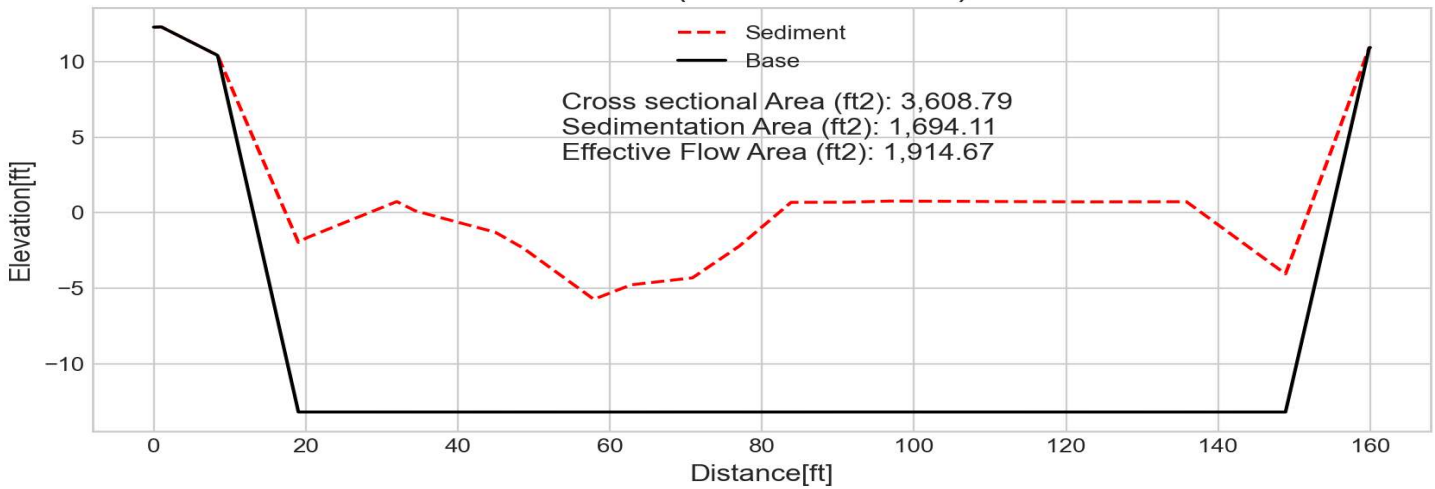
Year 3 (Station: 145+00)



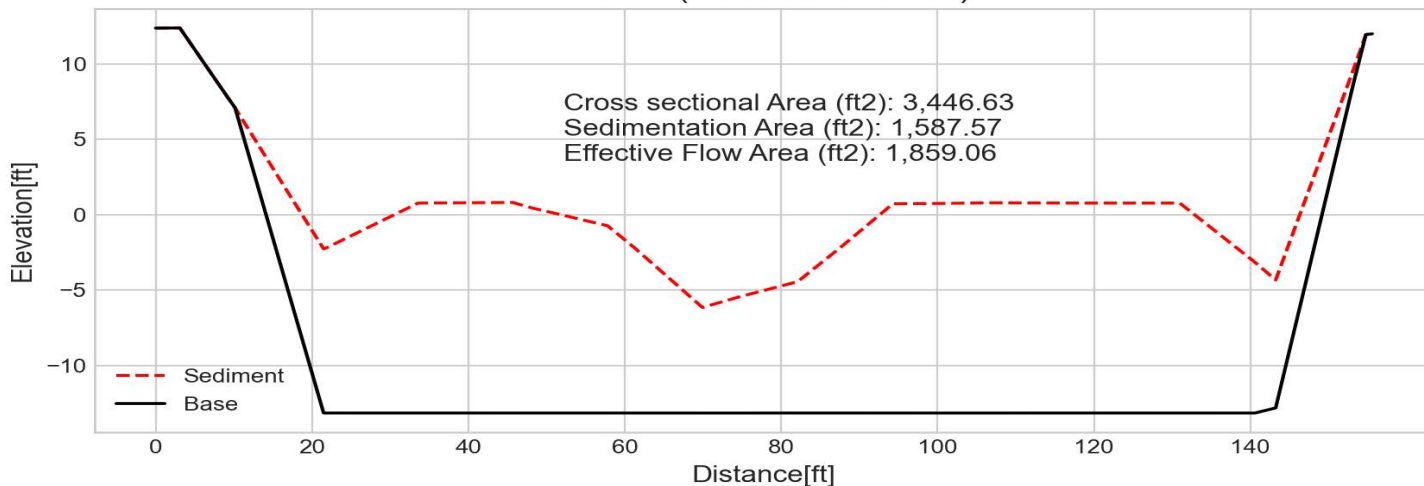
Year 3 (Station: 146+00)



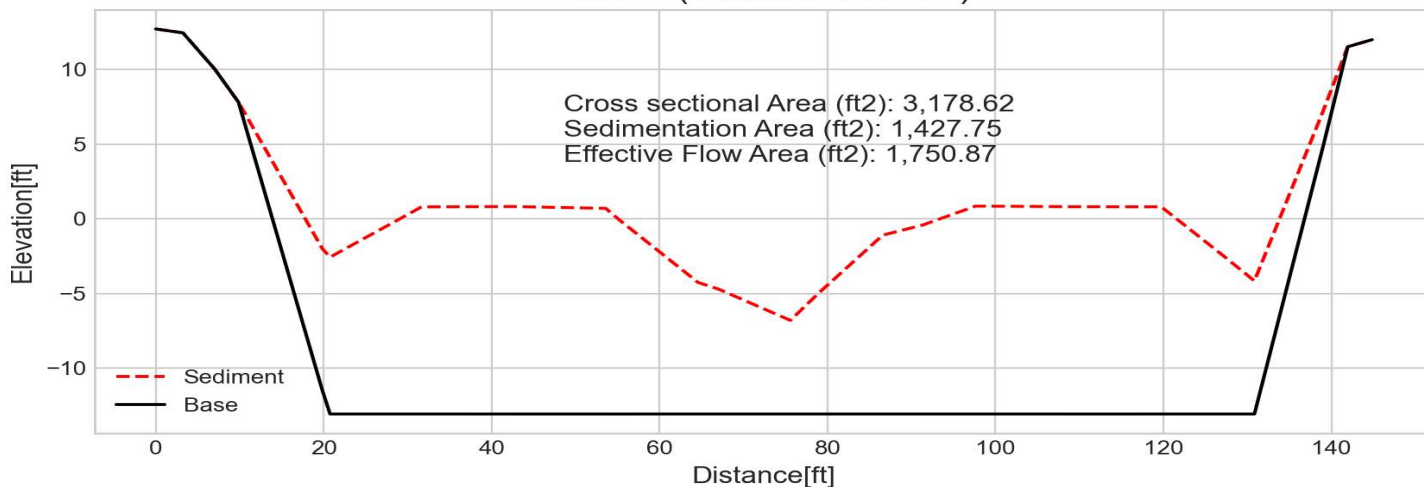
Year 3 (Station: 147+00)



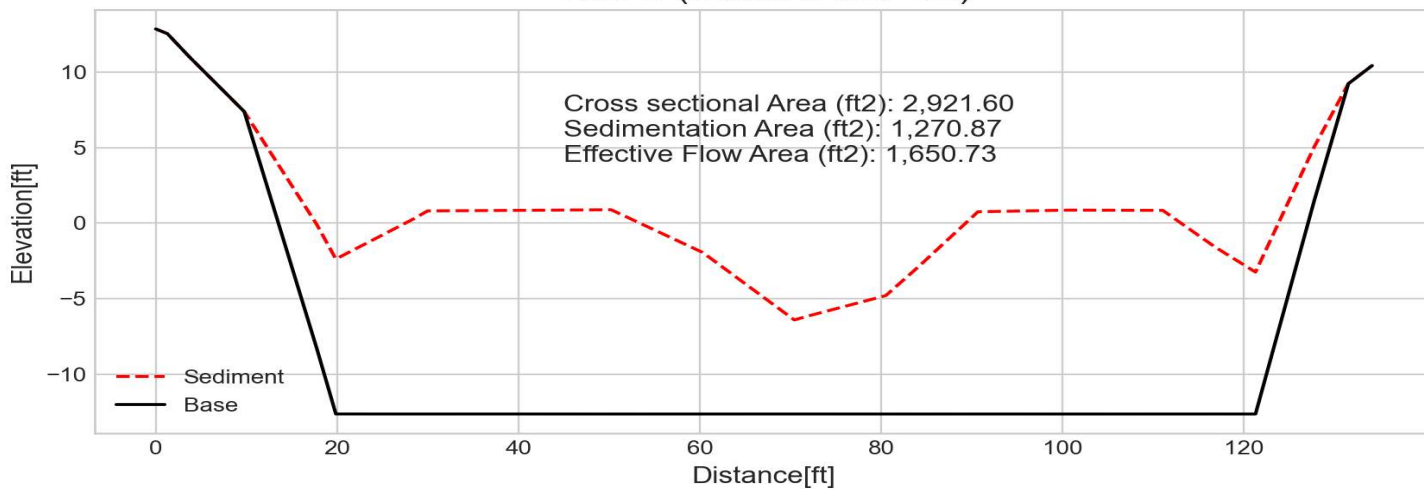
Year 3 (Station: 148+00)



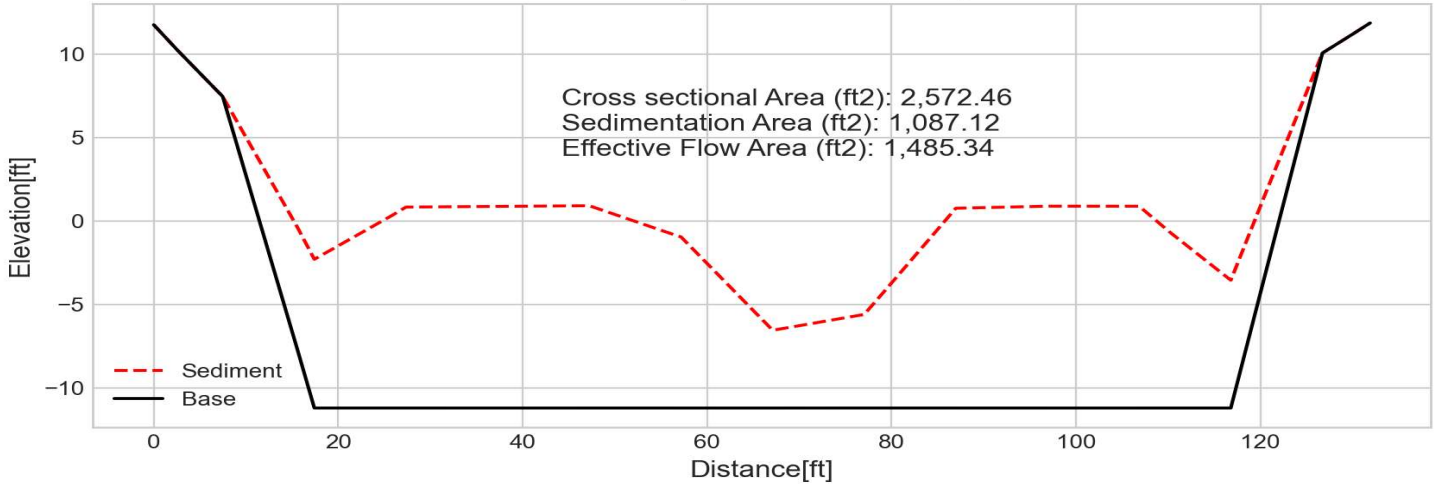
Year 3 (Station: 149+00)



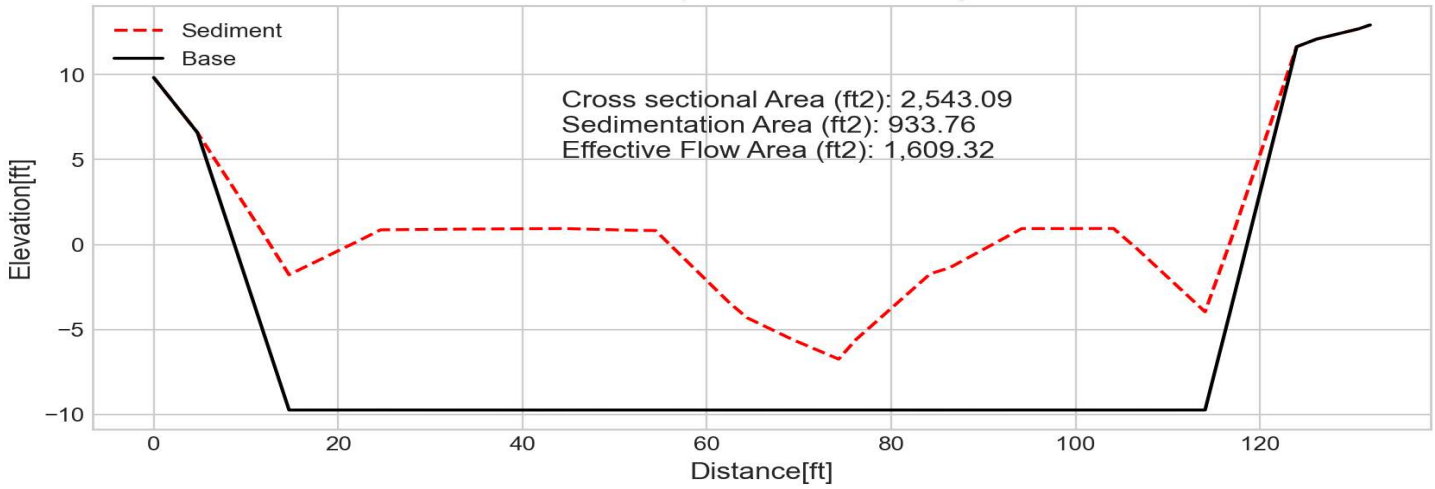
Year 3 (Station: 150+00)



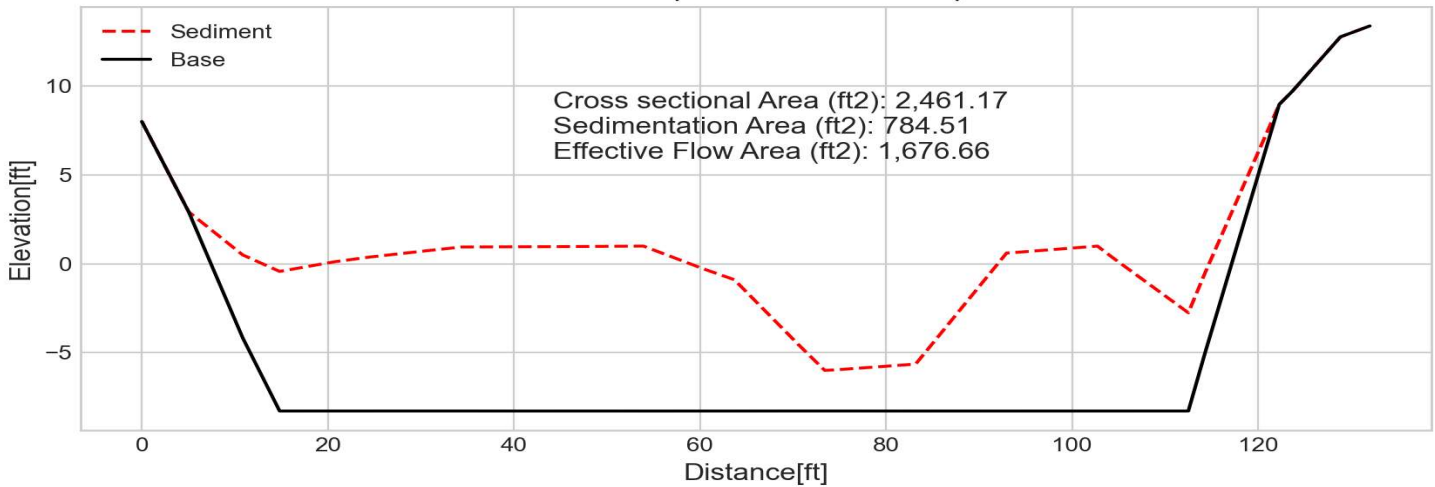
Year 3 (Station: 151+00)



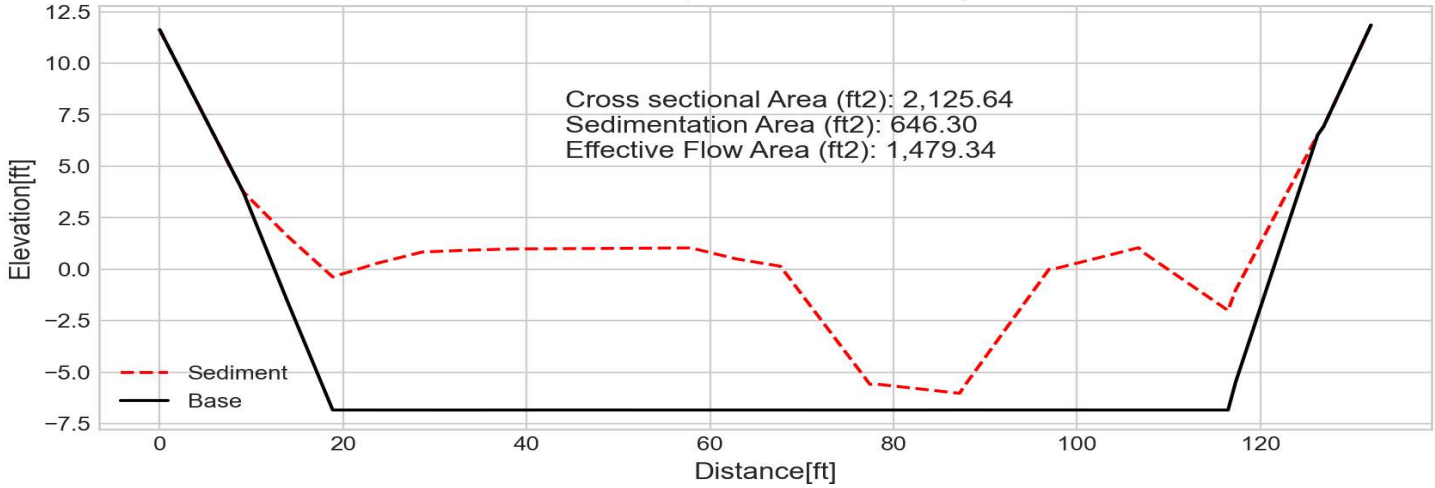
Year 3 (Station: 152+00)



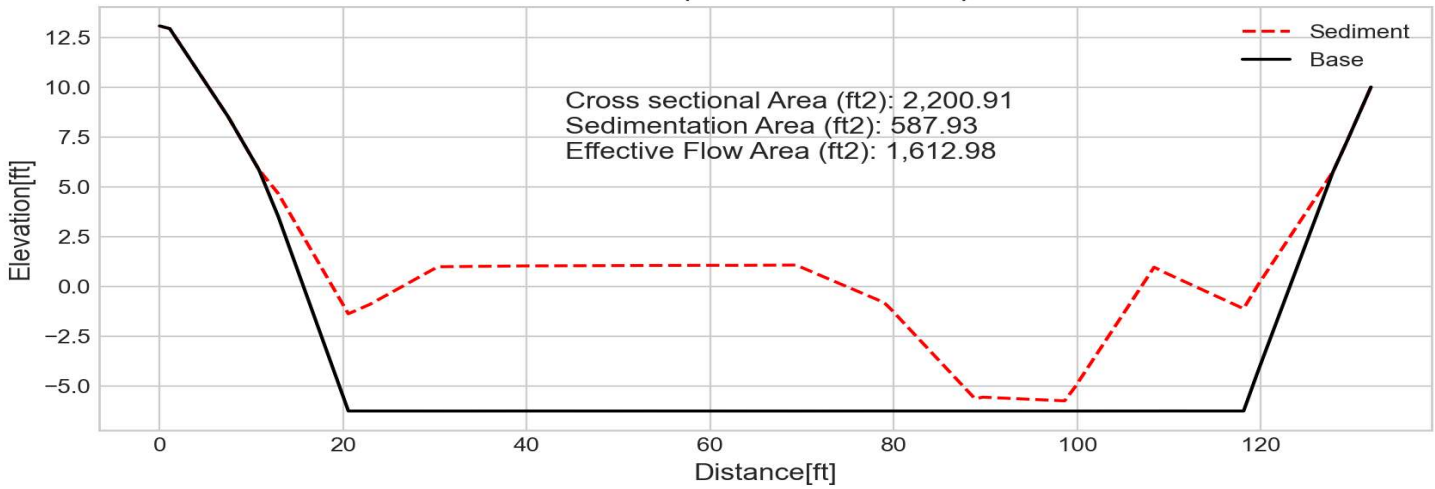
Year 3 (Station: 153+00)



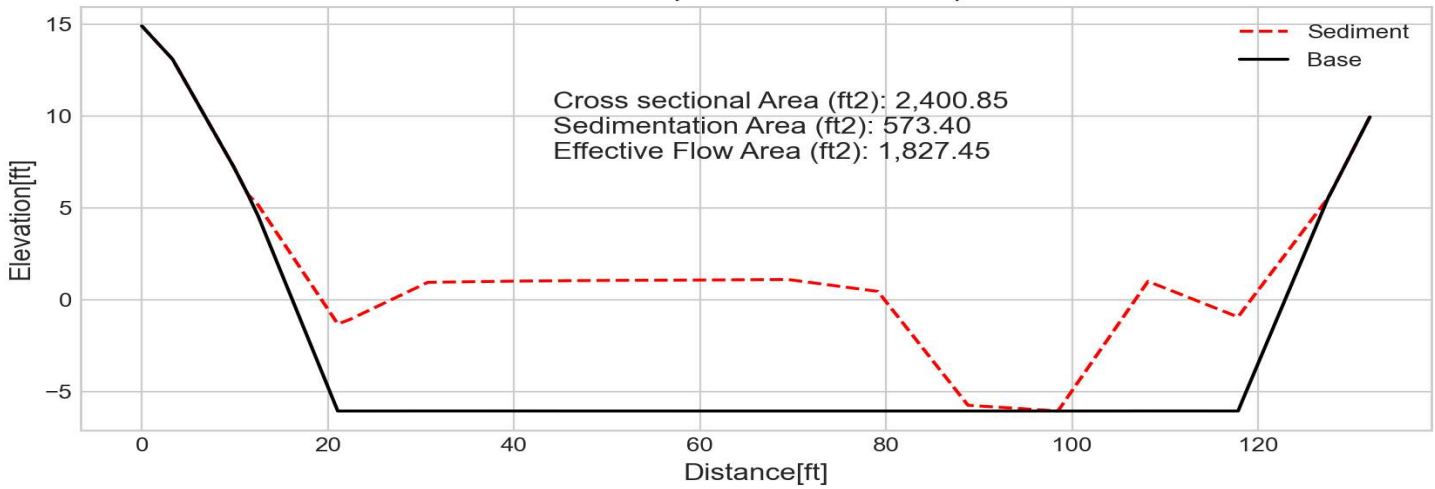
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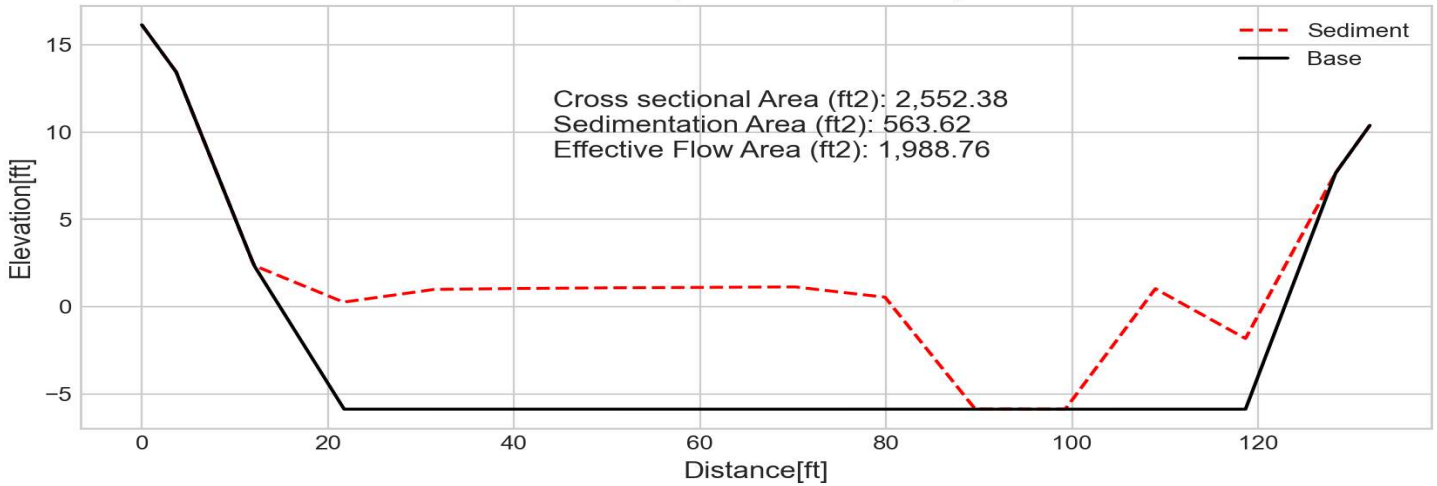
Year 3 (Station: 155+00)



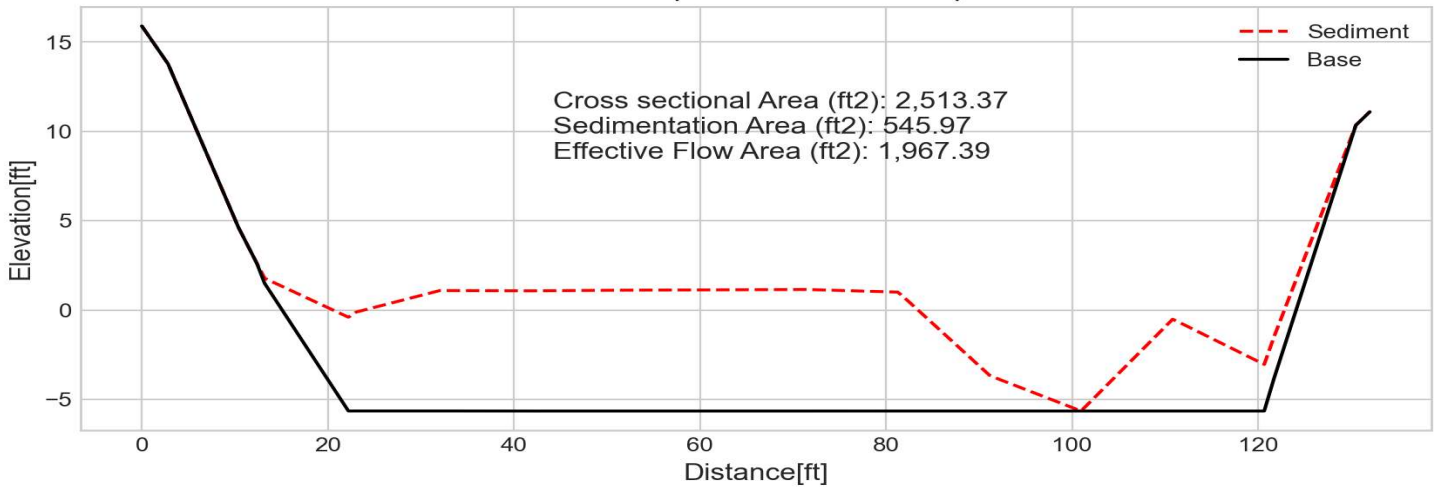
Year 3 (Station: 156+00)



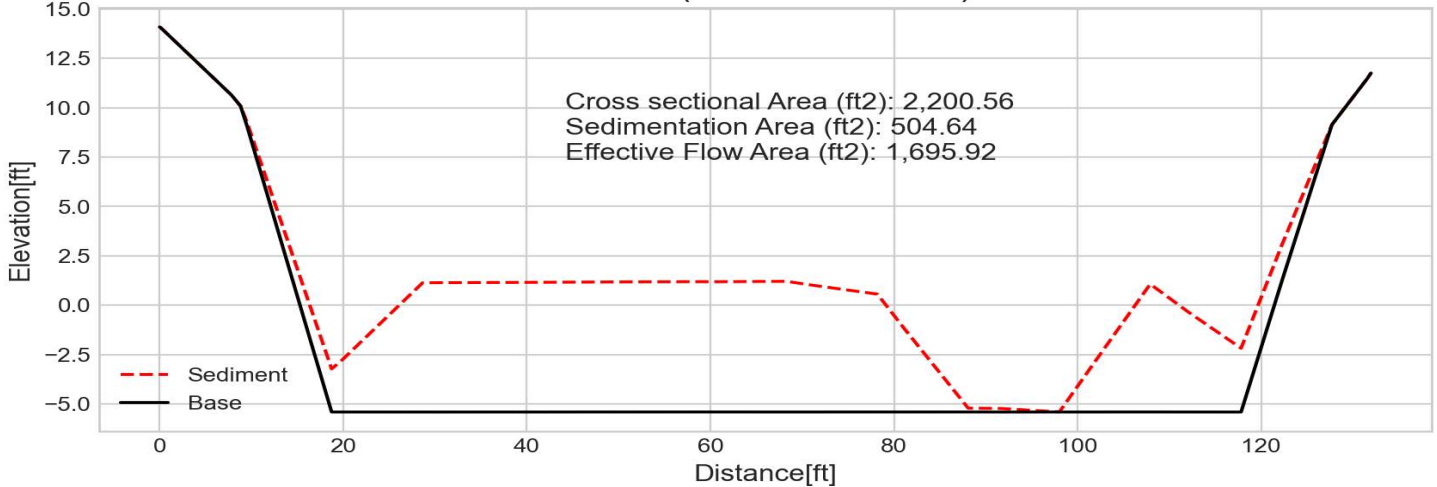
Year 3 (Station: 157+00)



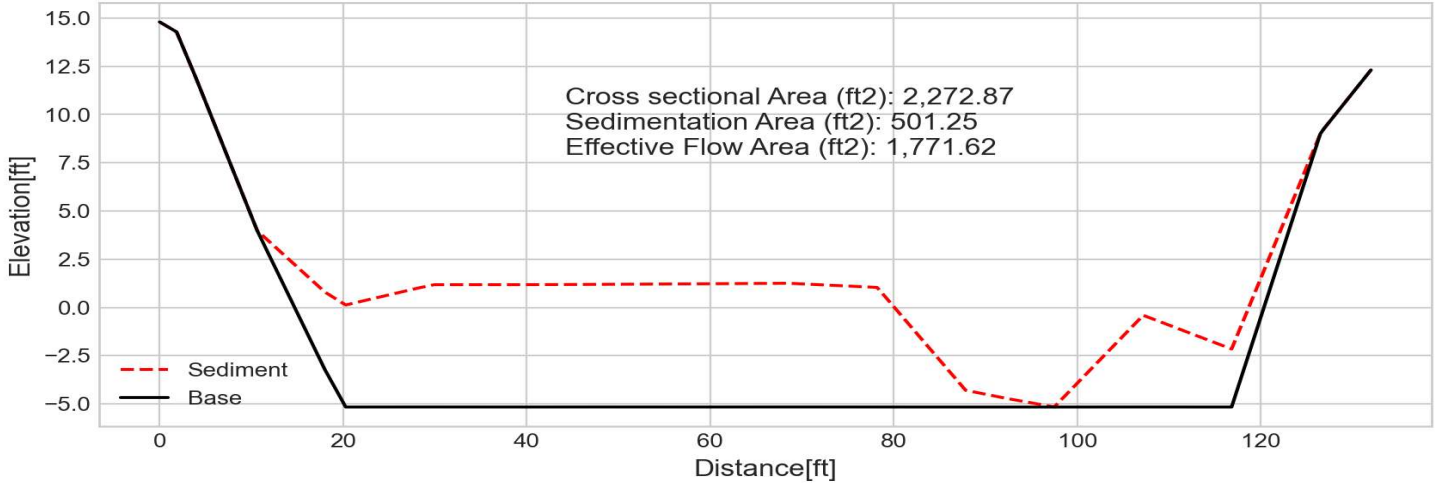
Year 3 (Station: 158+00)



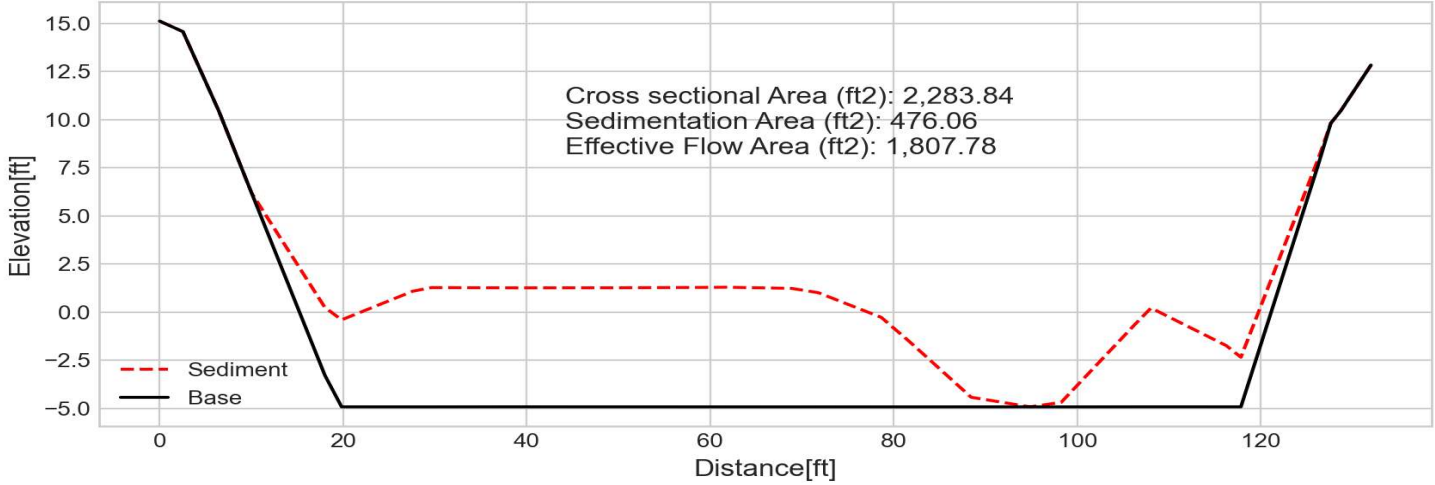
Year 3 (Station: 159+00)



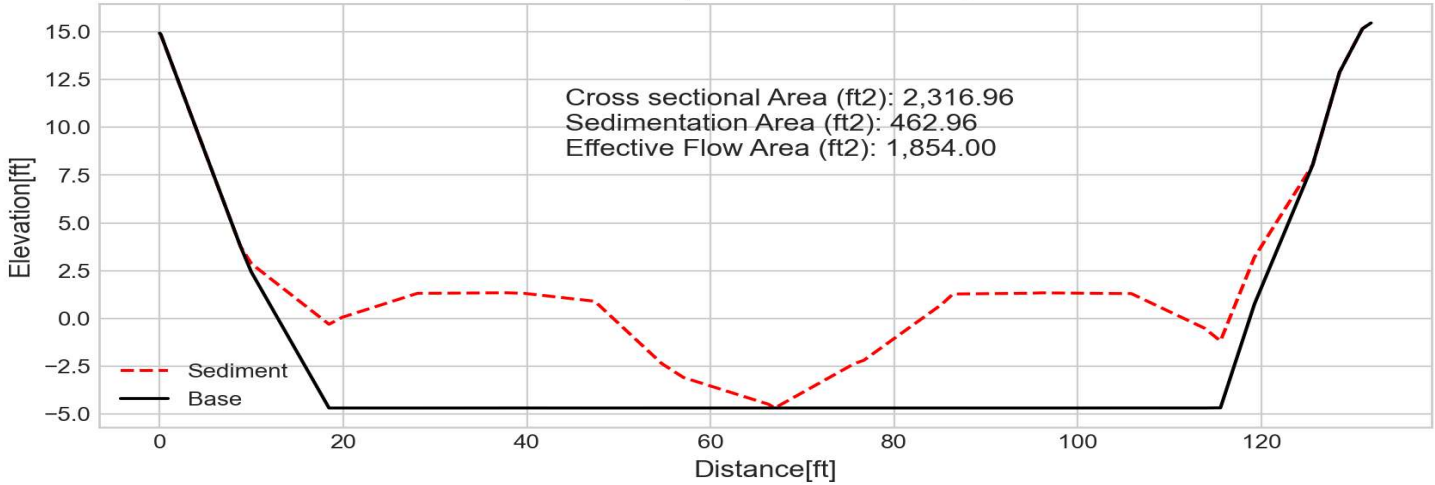
Year 3 (Station: 160+00)



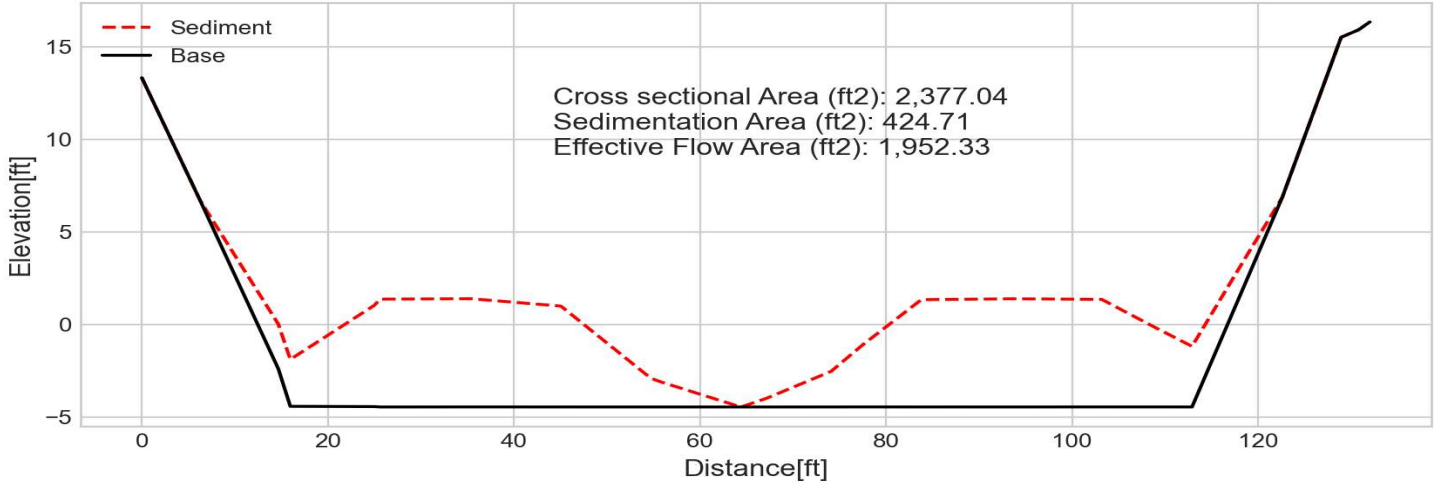
Year 3 (Station: 161+00)



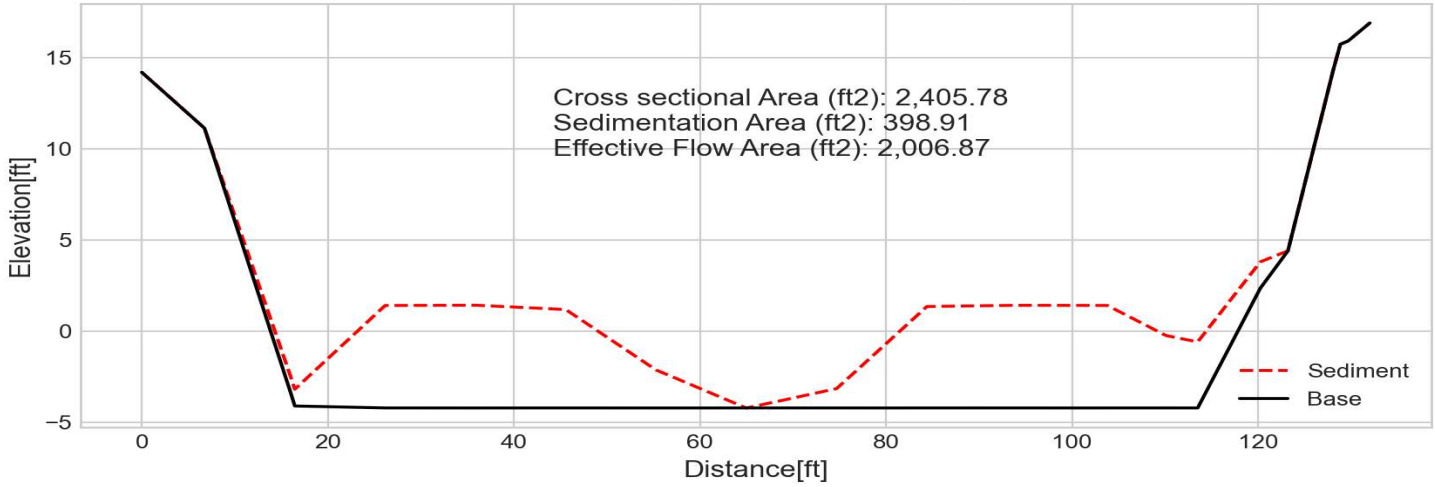
Year 3 (Station: 162+00)



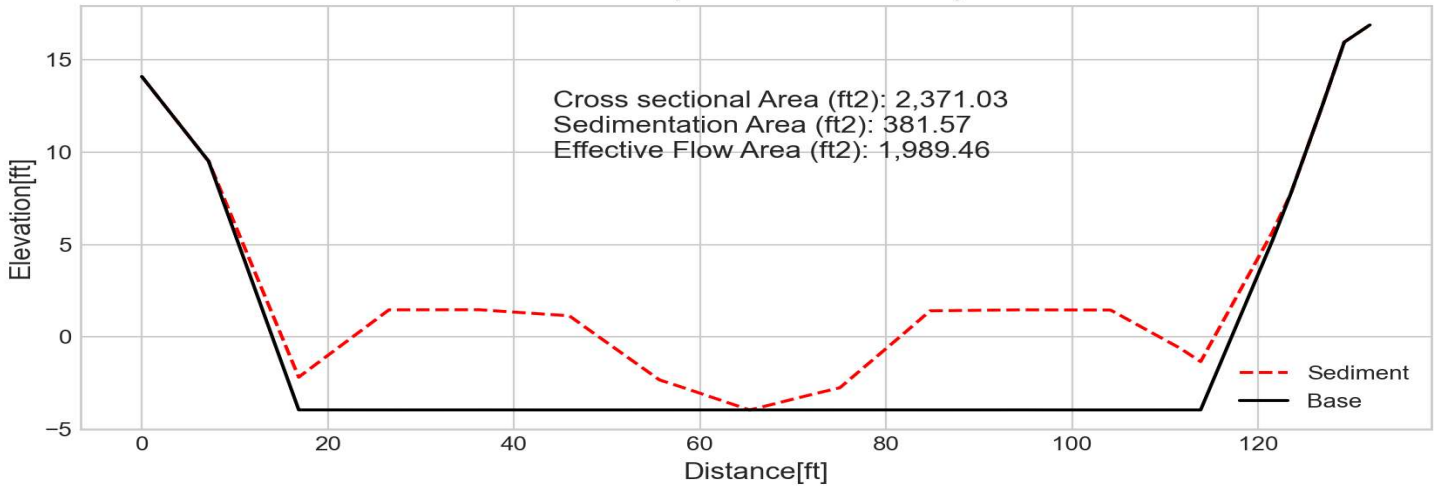
Year 3 (Station: 163+00)



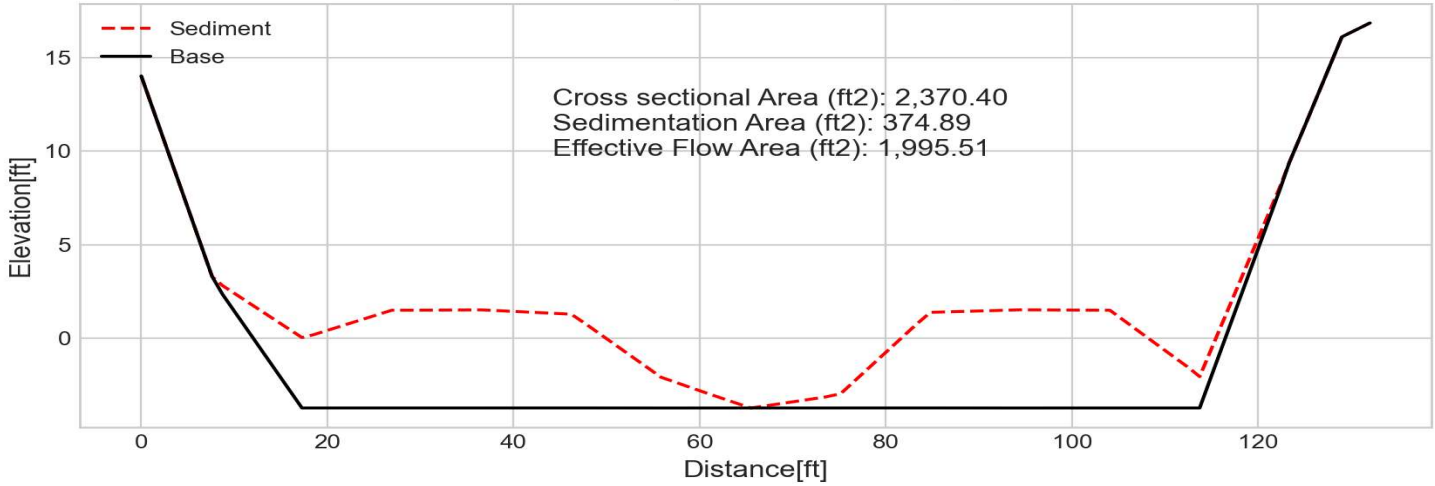
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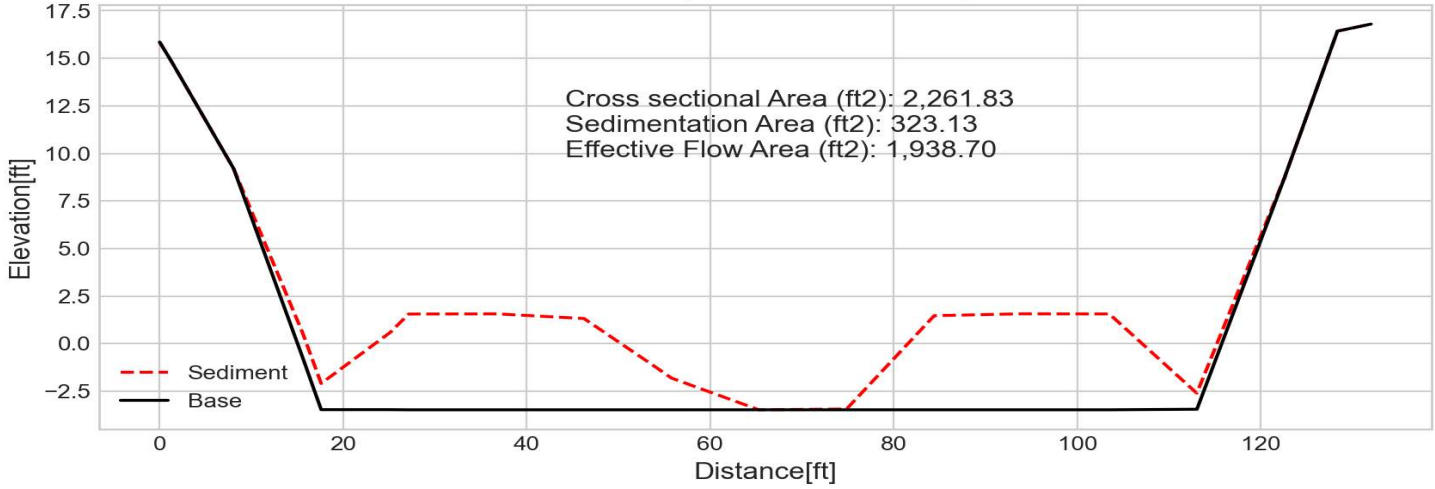
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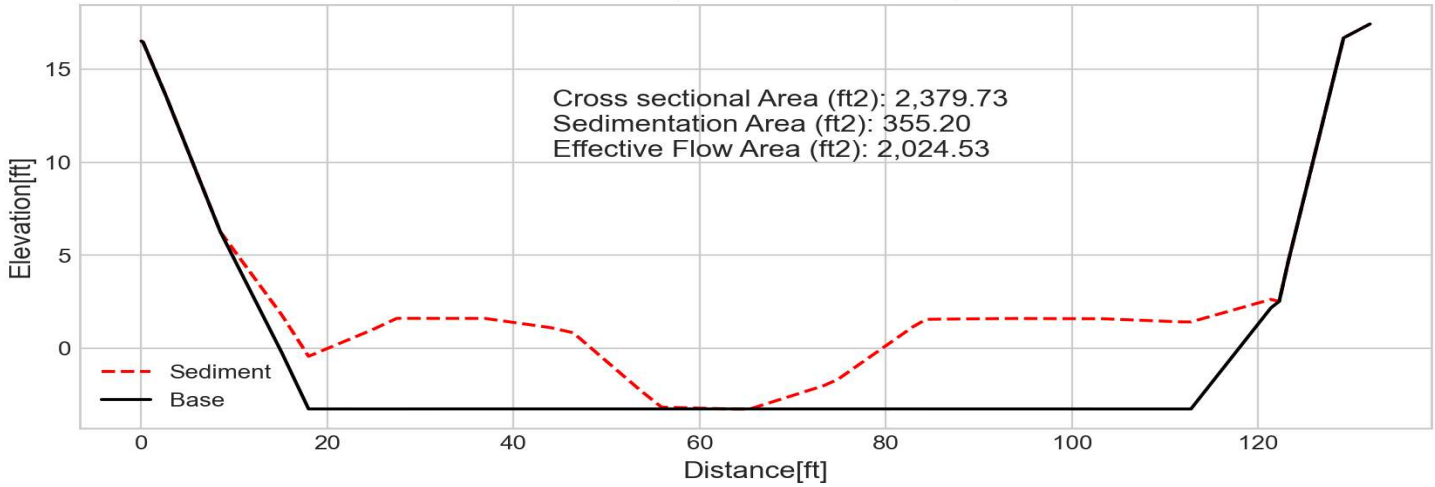
Year 3 (Station: 166+00)



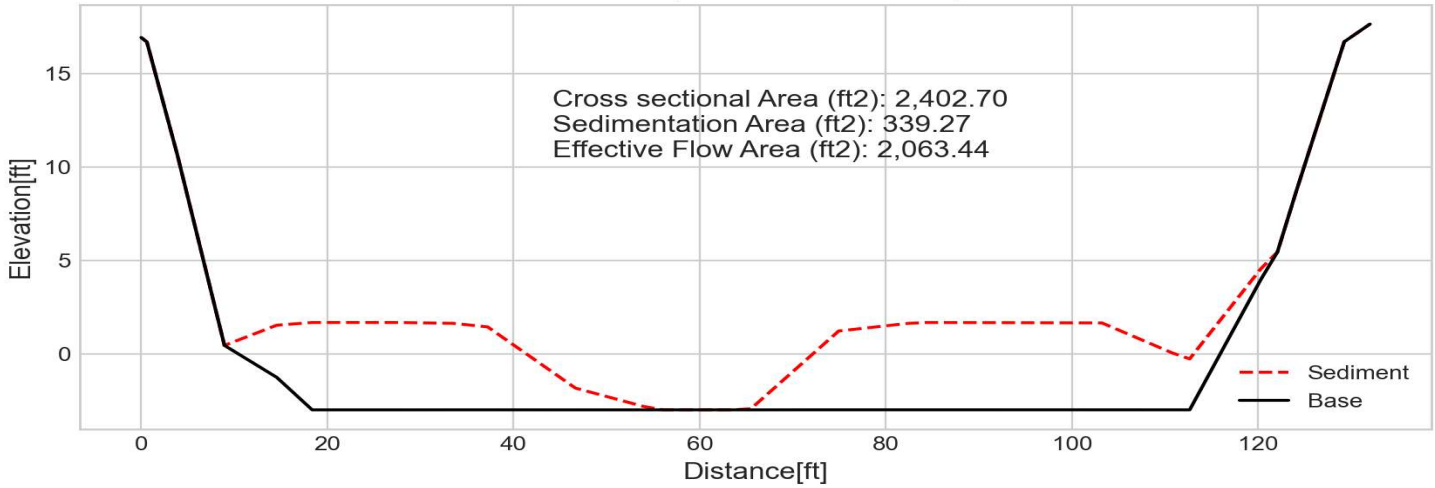
Year 3 (Station: 167+00)



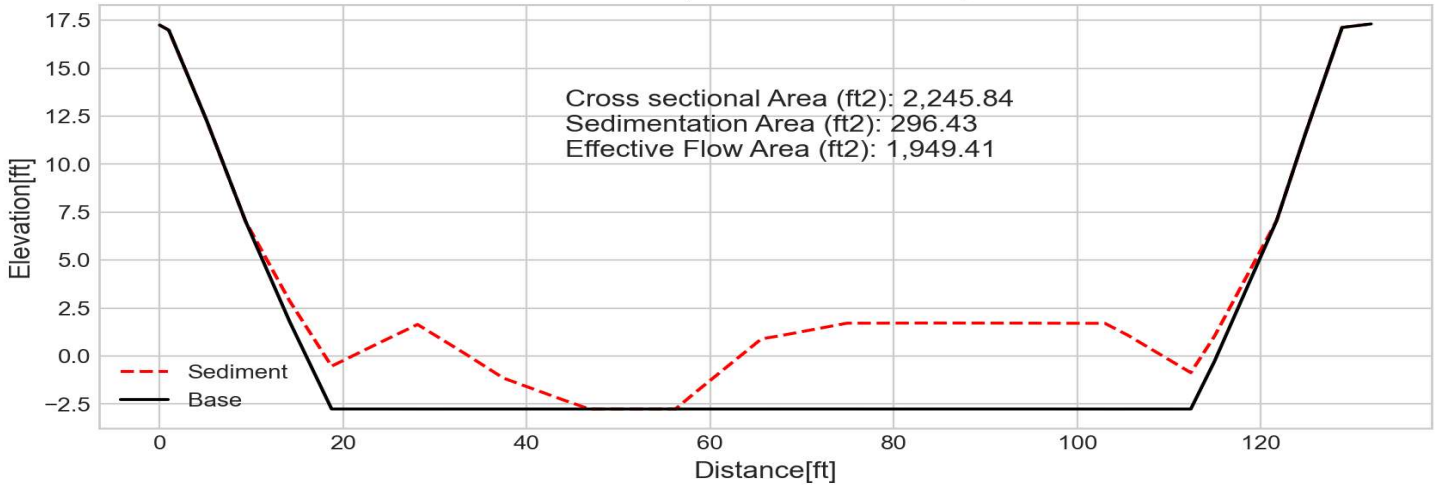
Year 3 (Station: 168+00)



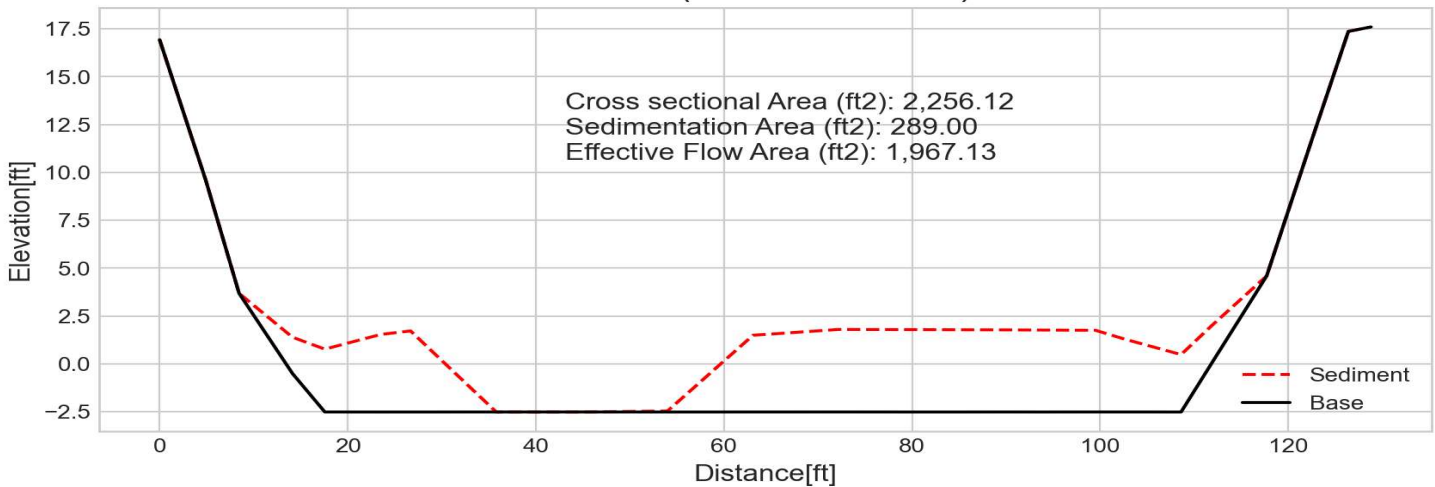
Year 3 (Station: 169+00)



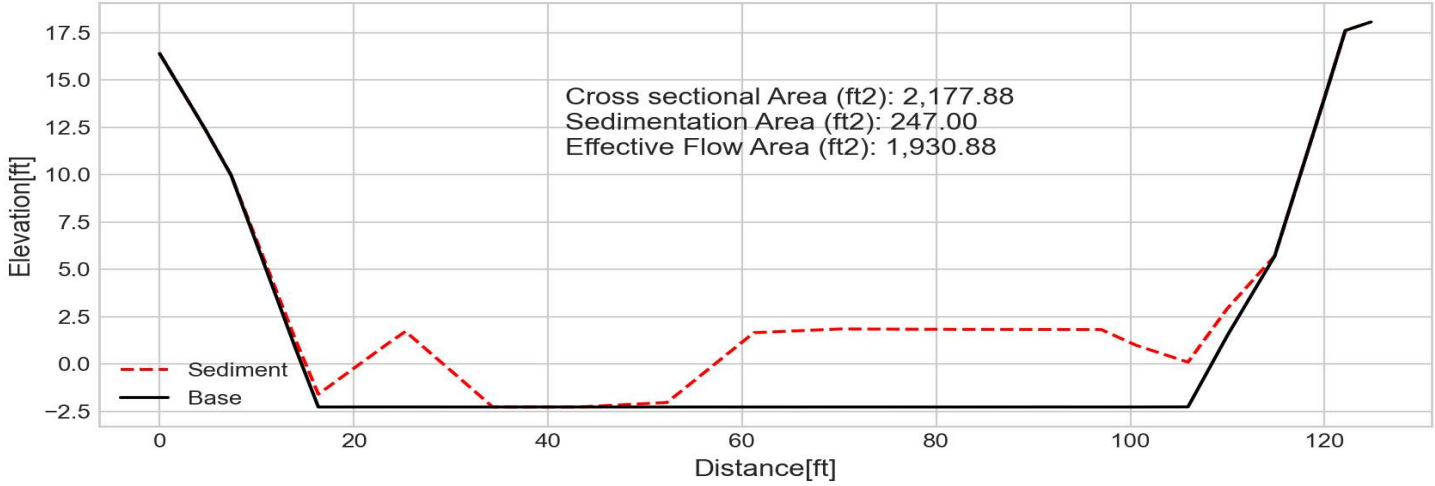
Year 3 (Station: 170+00)



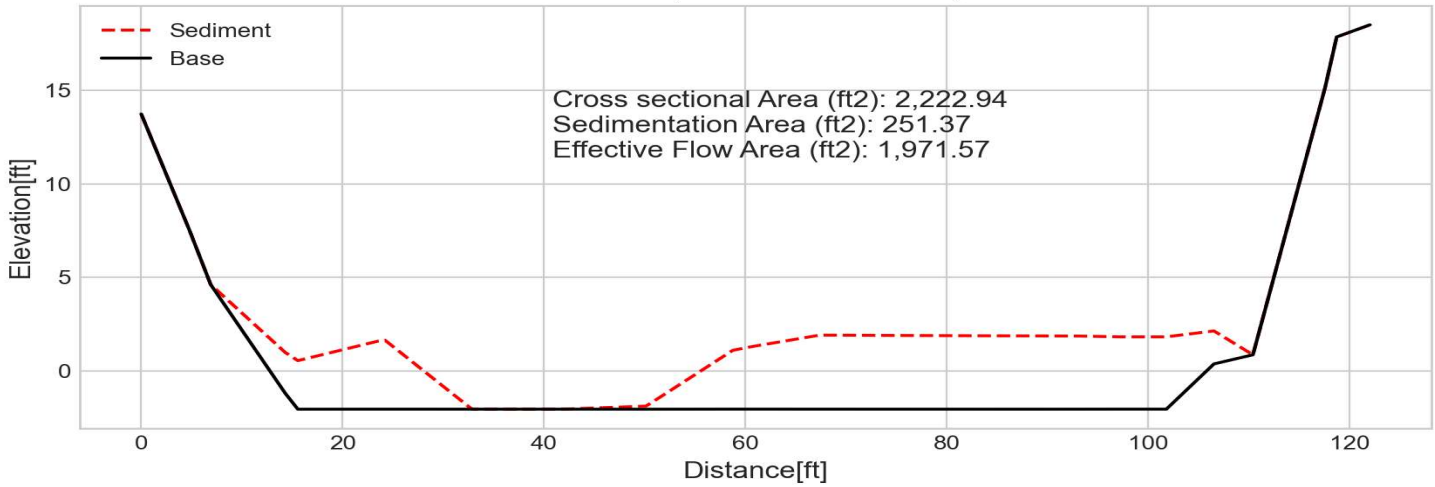
Year 3 (Station: 171+00)



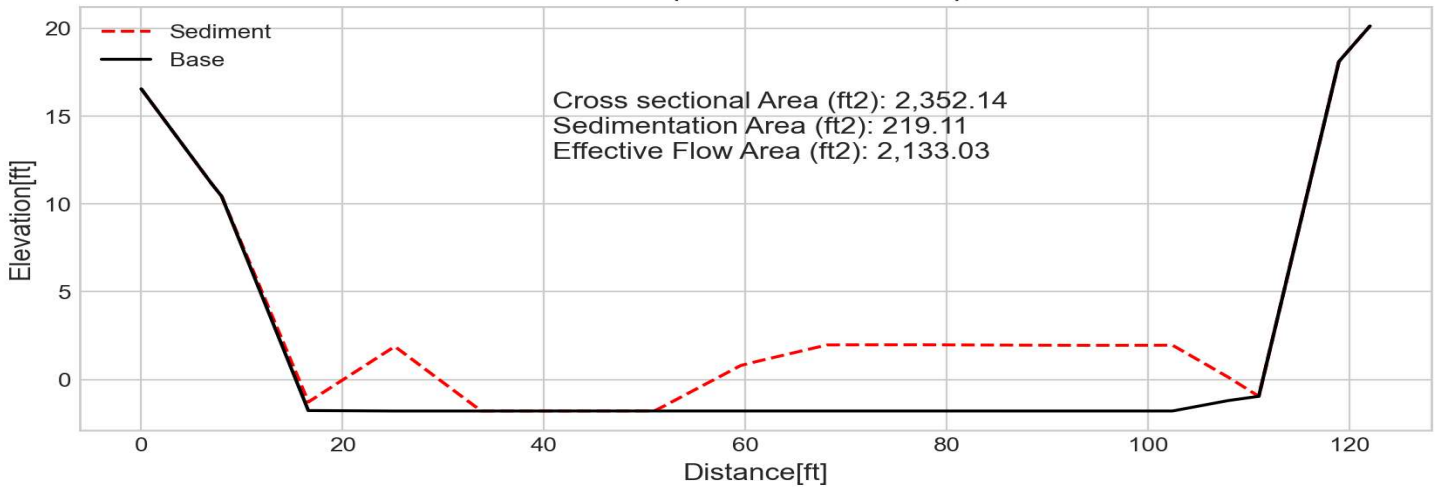
Year 3 (Station: 172+00)



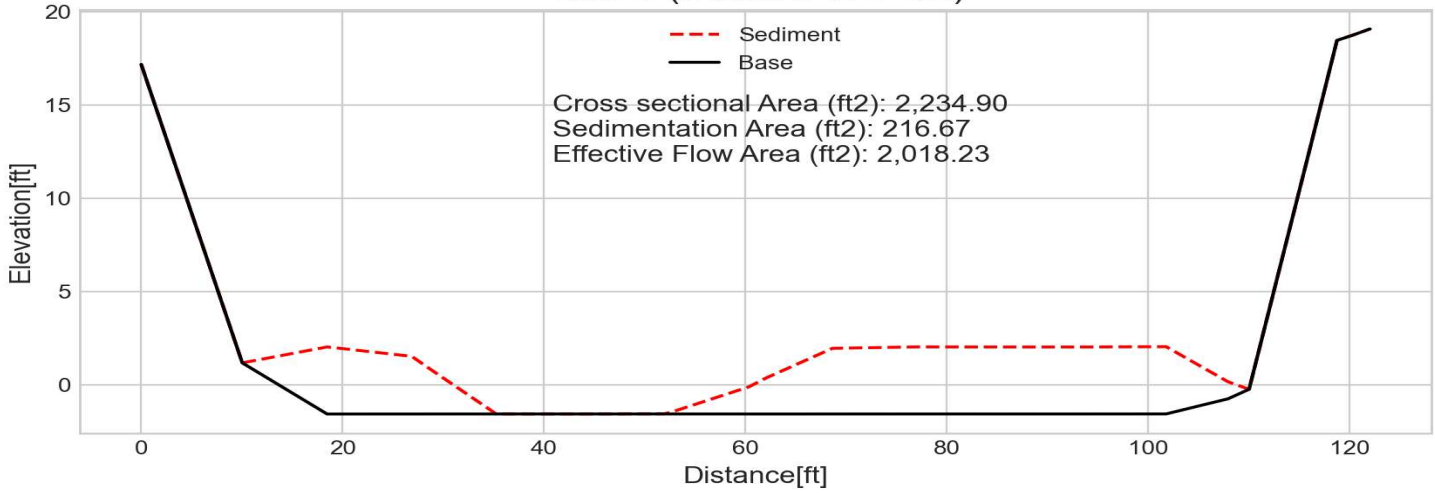
Year 3 (Station: 173+00)



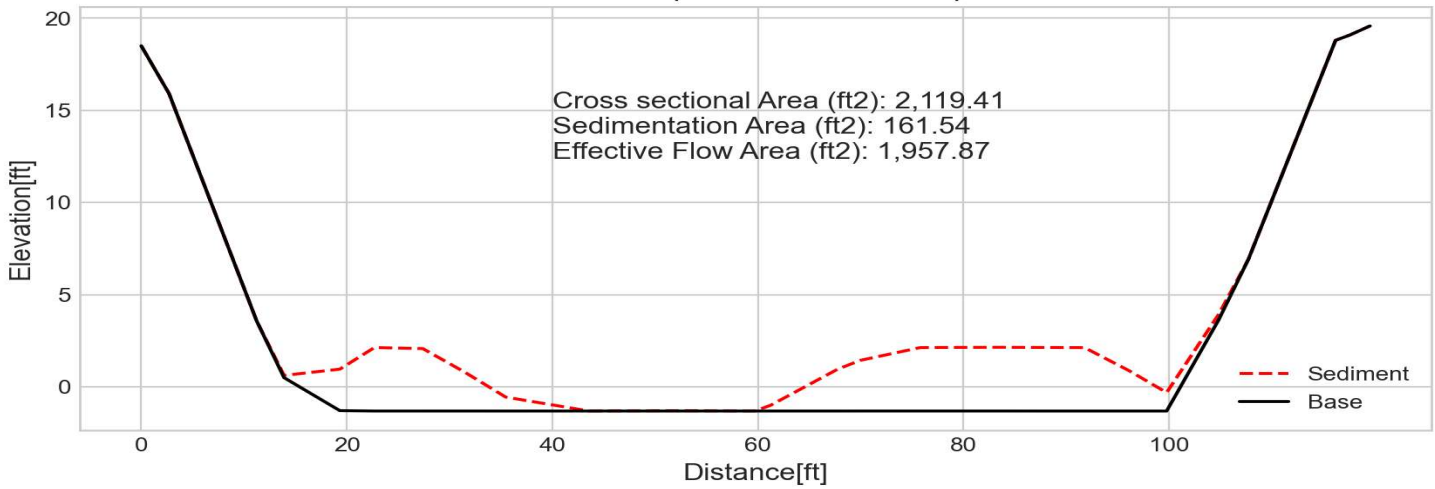
Year 3 (Station: 174+00)



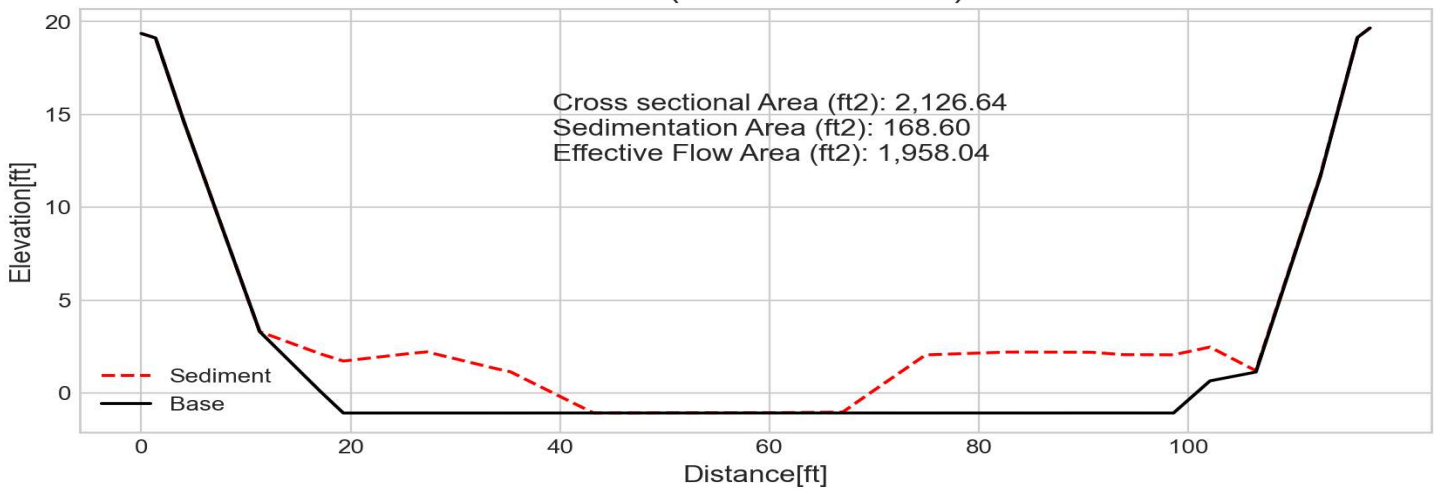
Year 3 (Station: 175+00)



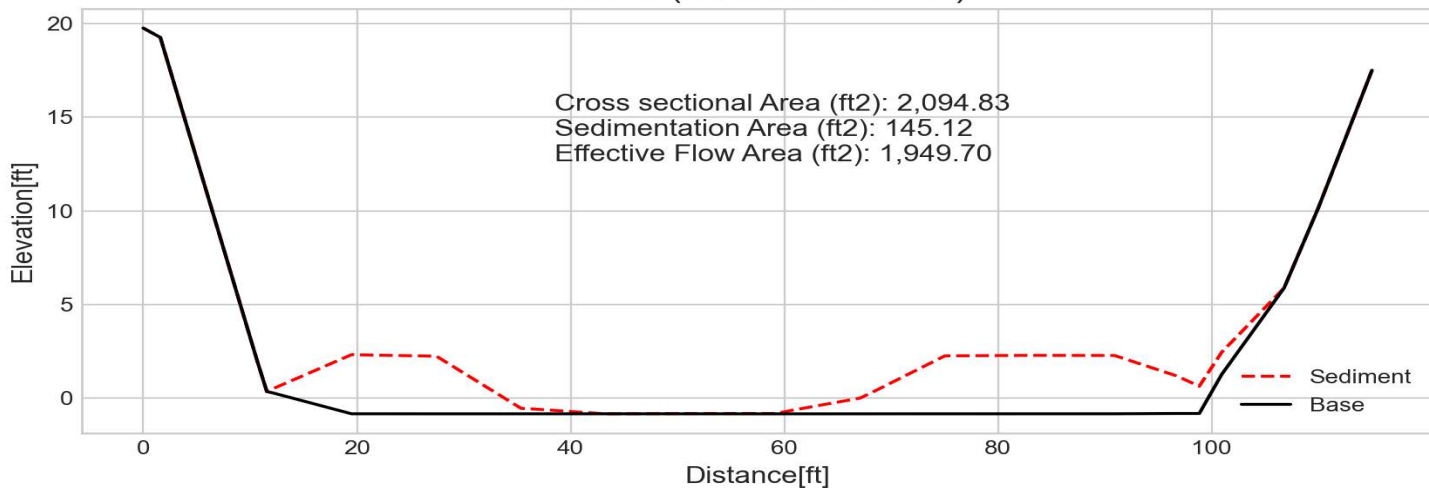
Year 3 (Station: 176+00)



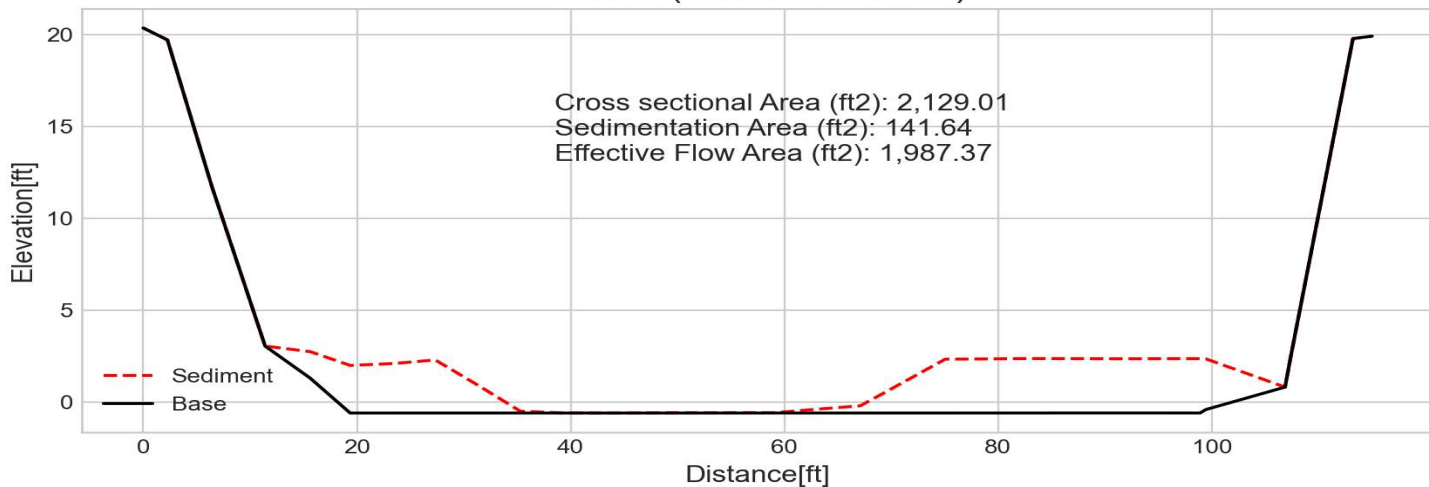
Year 3 (Station: 177+00)



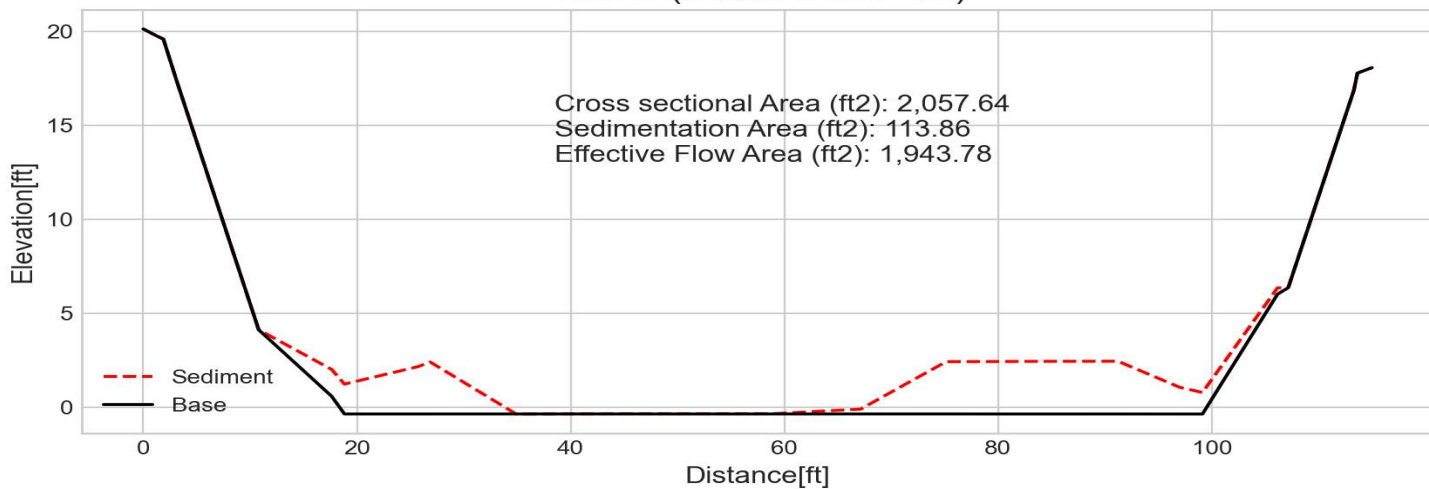
Year 3 (Station: 178+00)



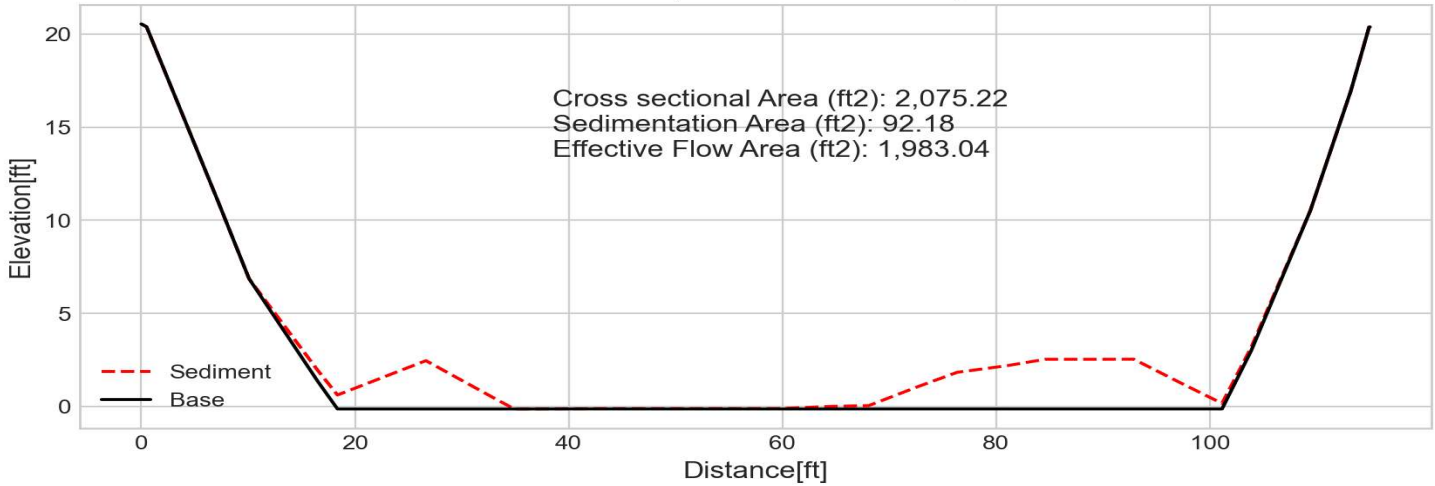
Year 3 (Station: 179+00)



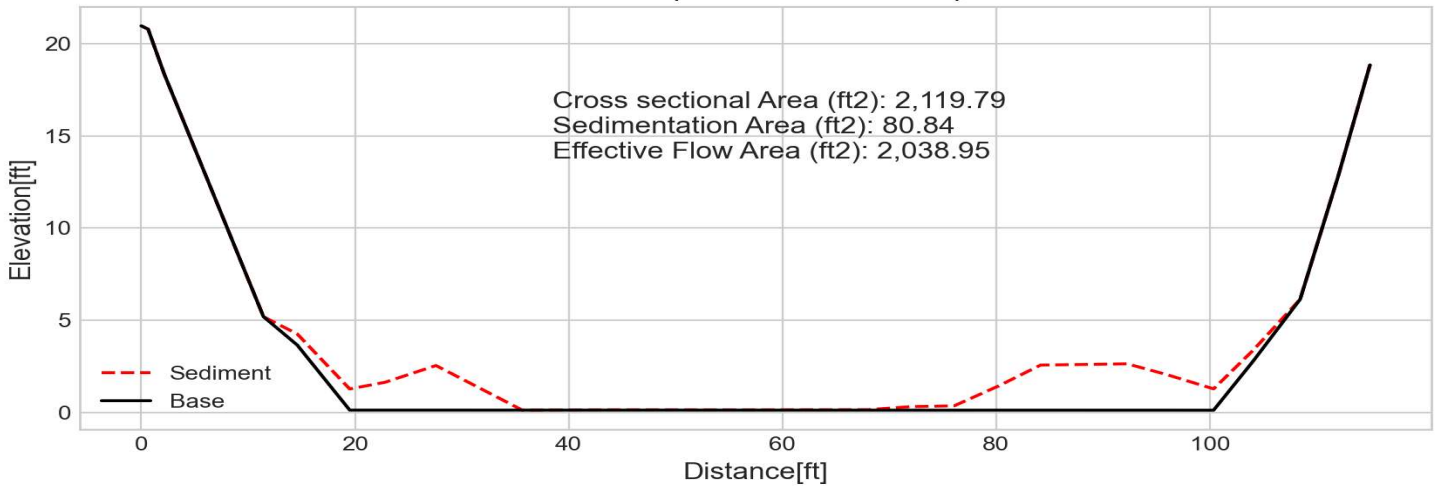
Year 3 (Station: 180+00)



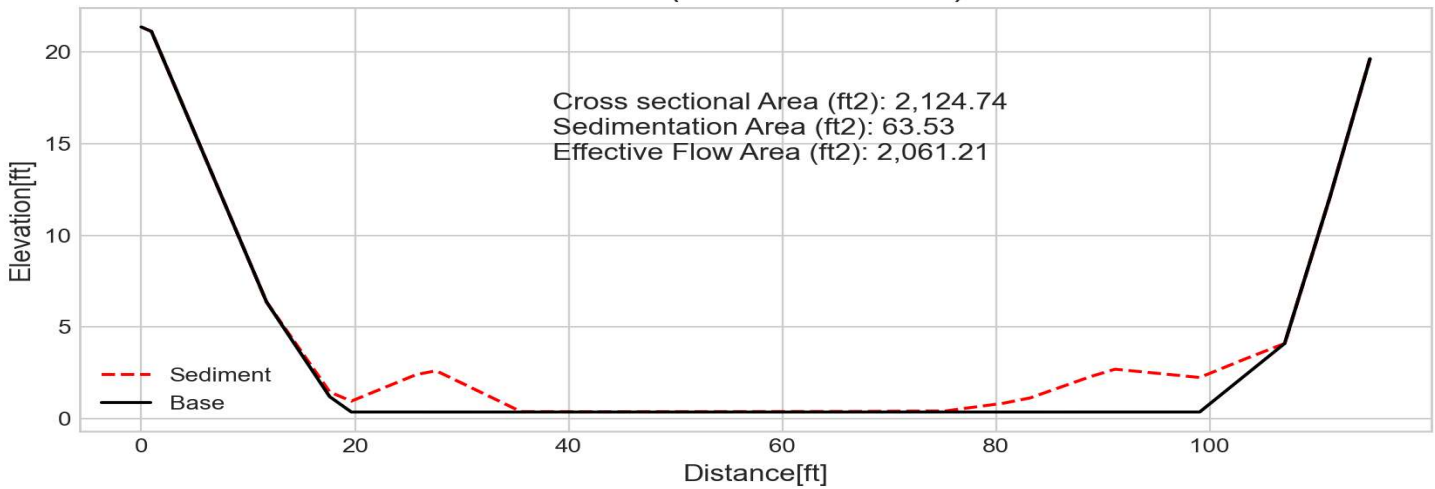
Year 3 (Station: 181+00)



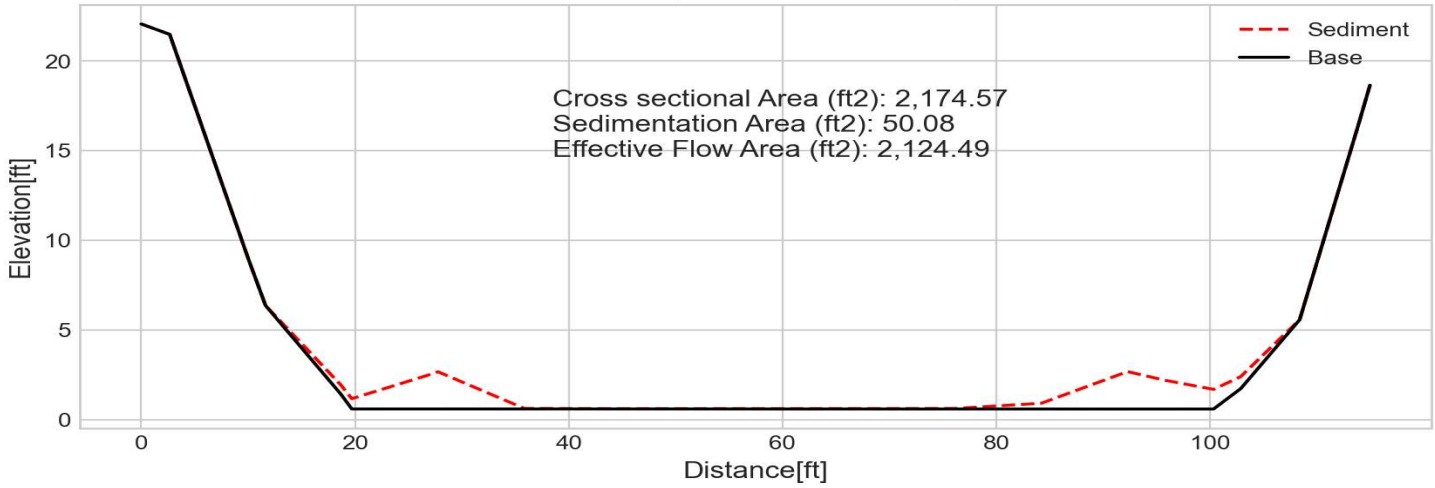
Year 3 (Station: 182+00)



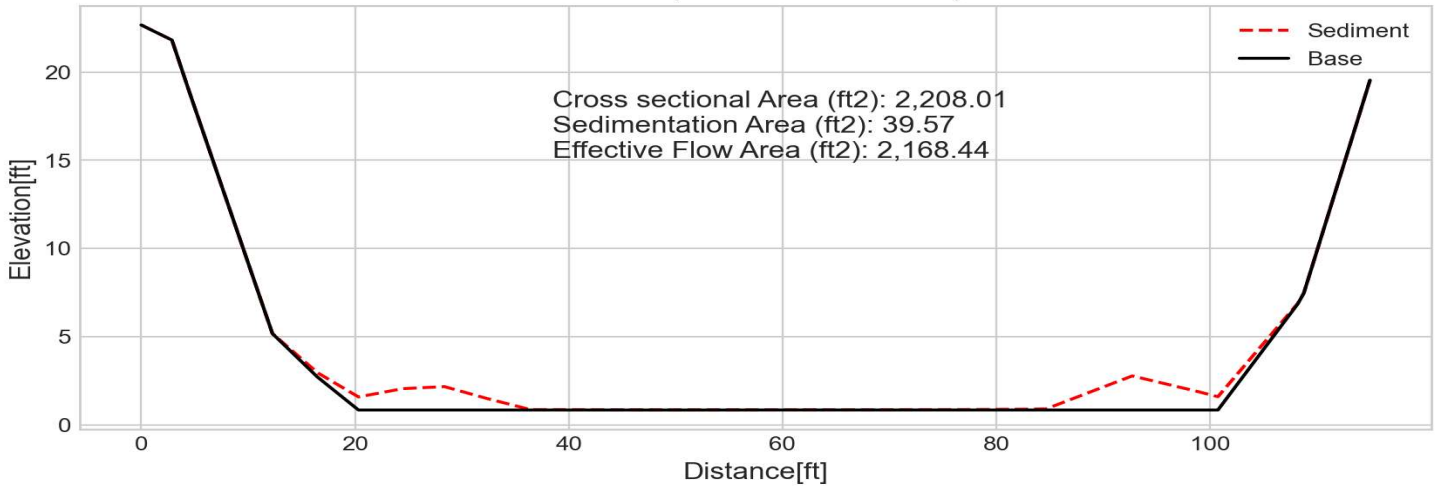
Year 3 (Station: 183+00)



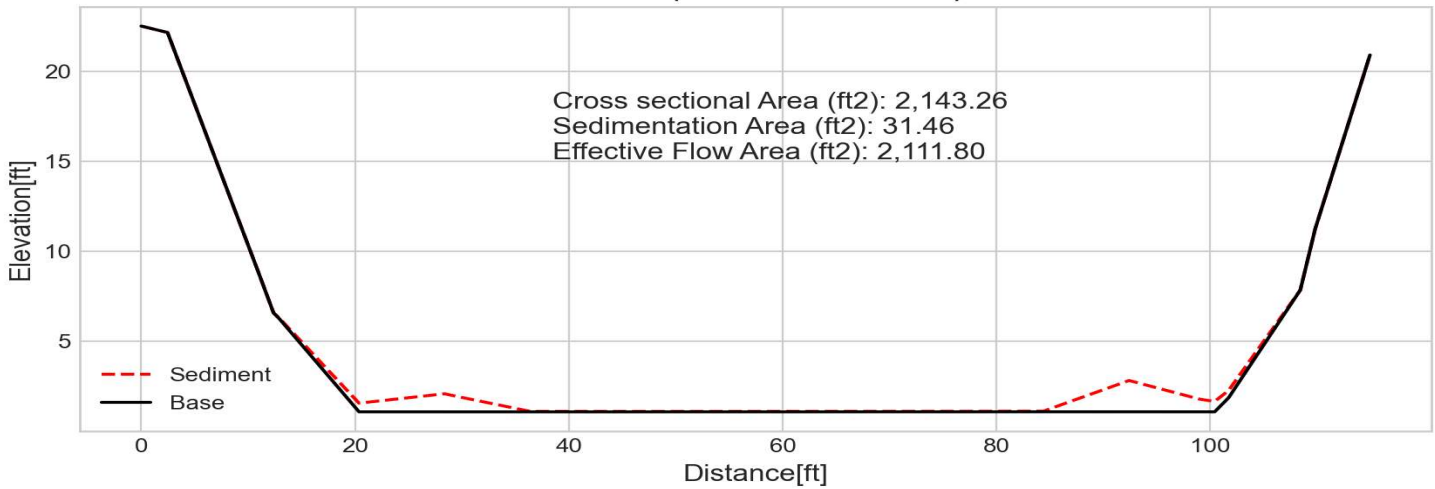
Year 3 (Station: 184+00)



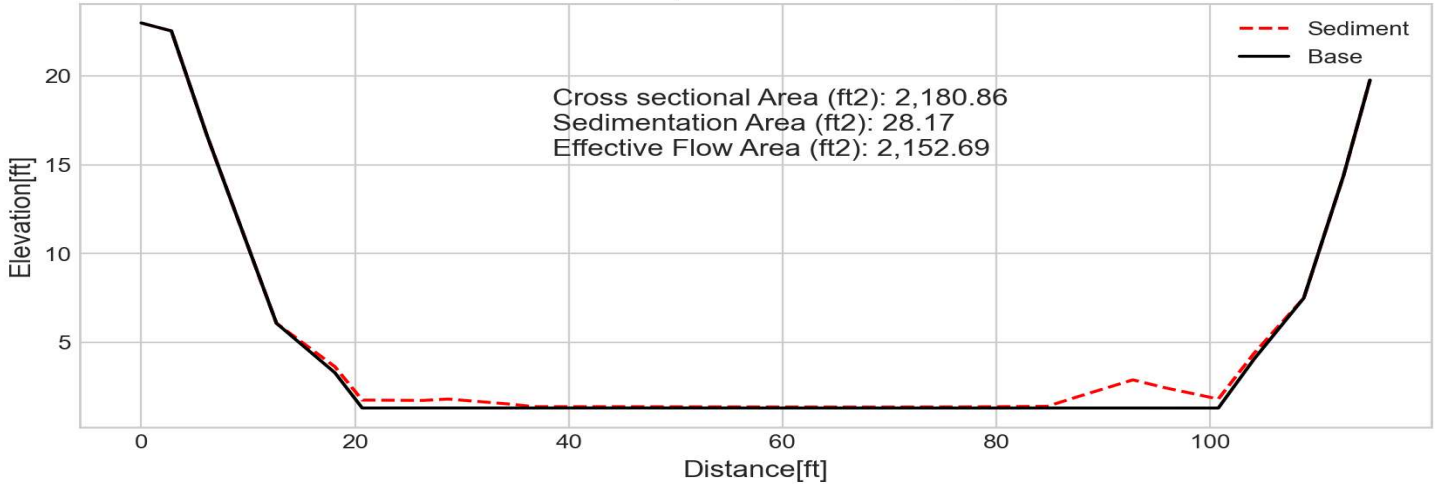
Year 3 (Station: 185+00)



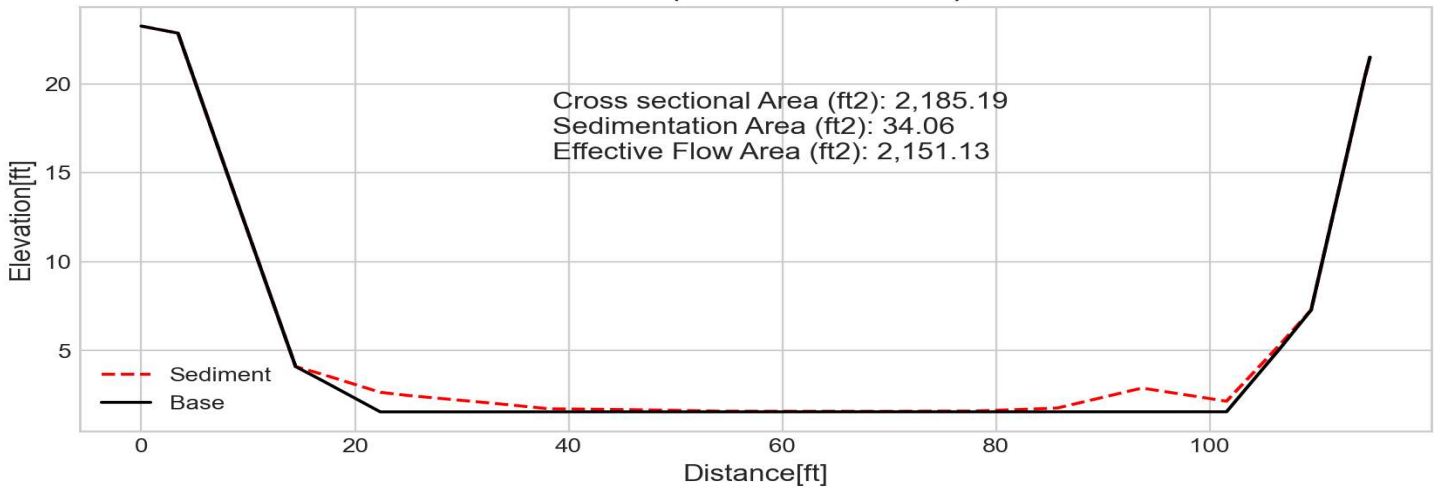
Year 3 (Station: 186+00)



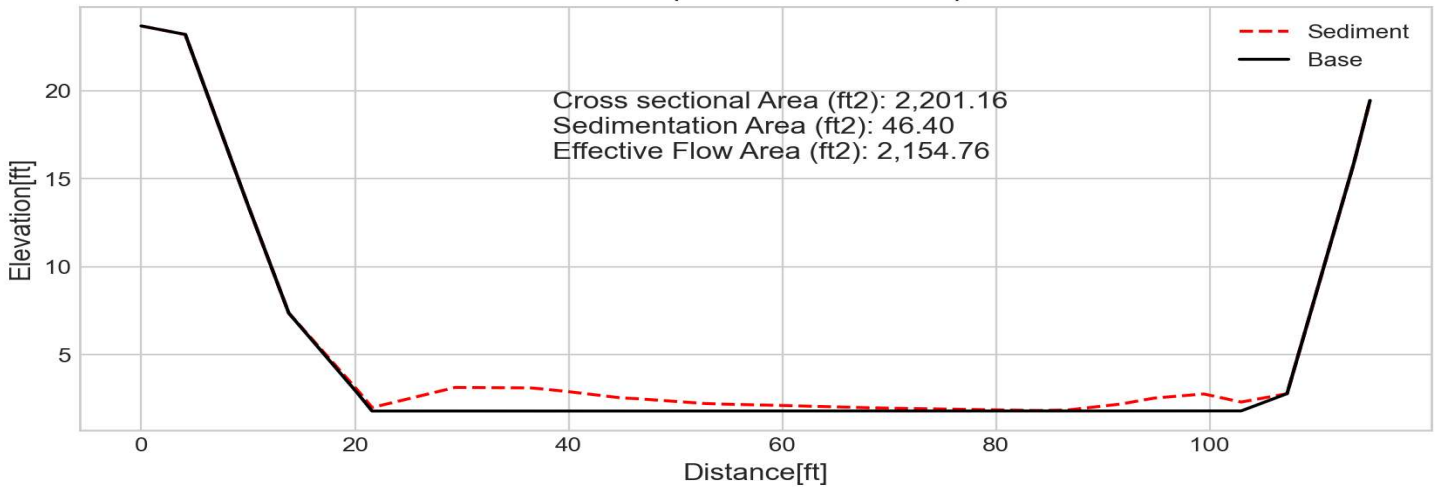
Year 3 (Station: 187+00)



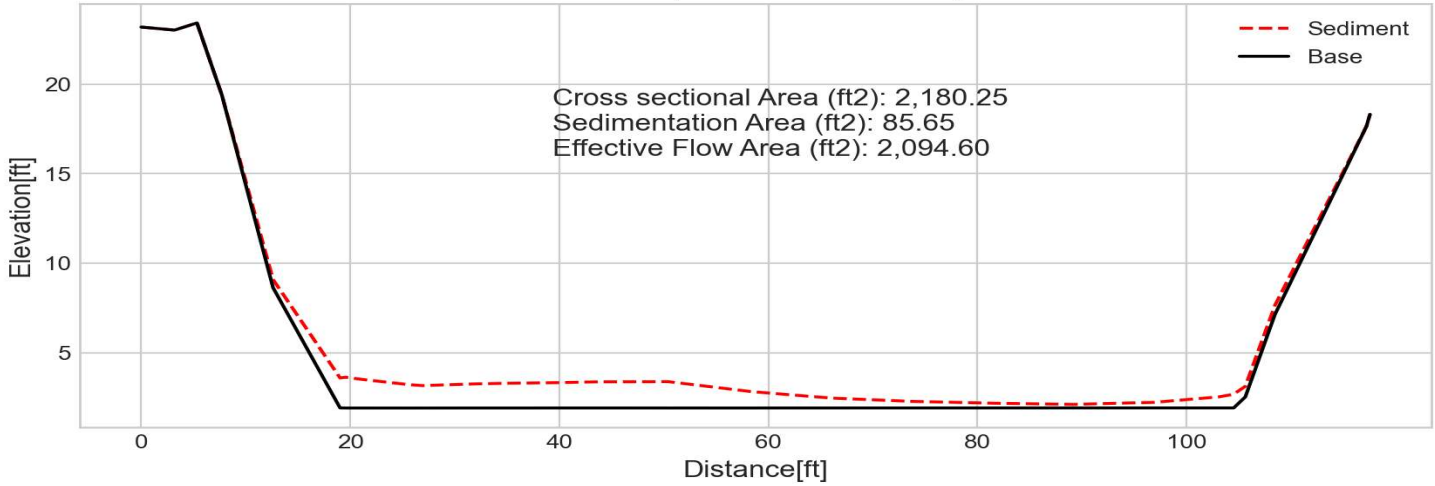
Year 3 (Station: 188+00)



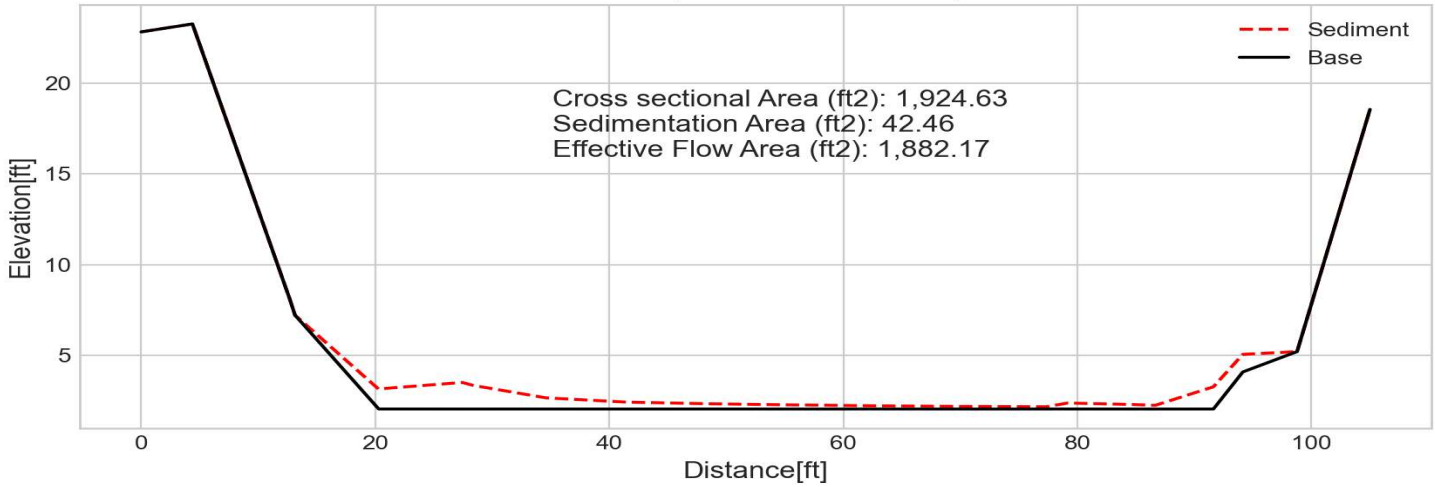
Year 3 (Station: 189+00)



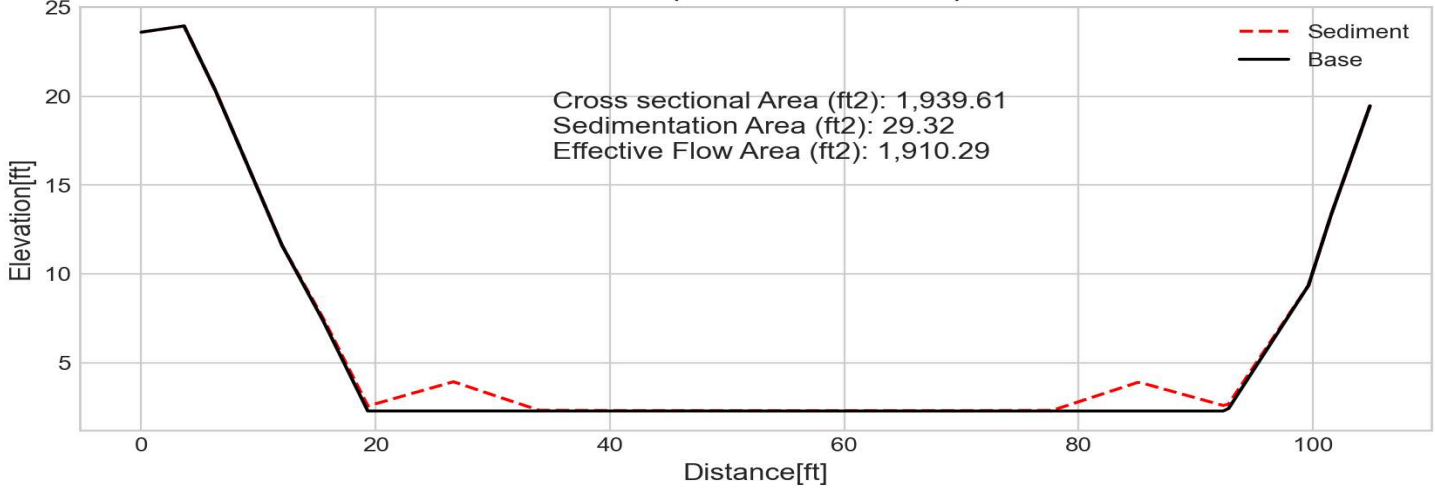
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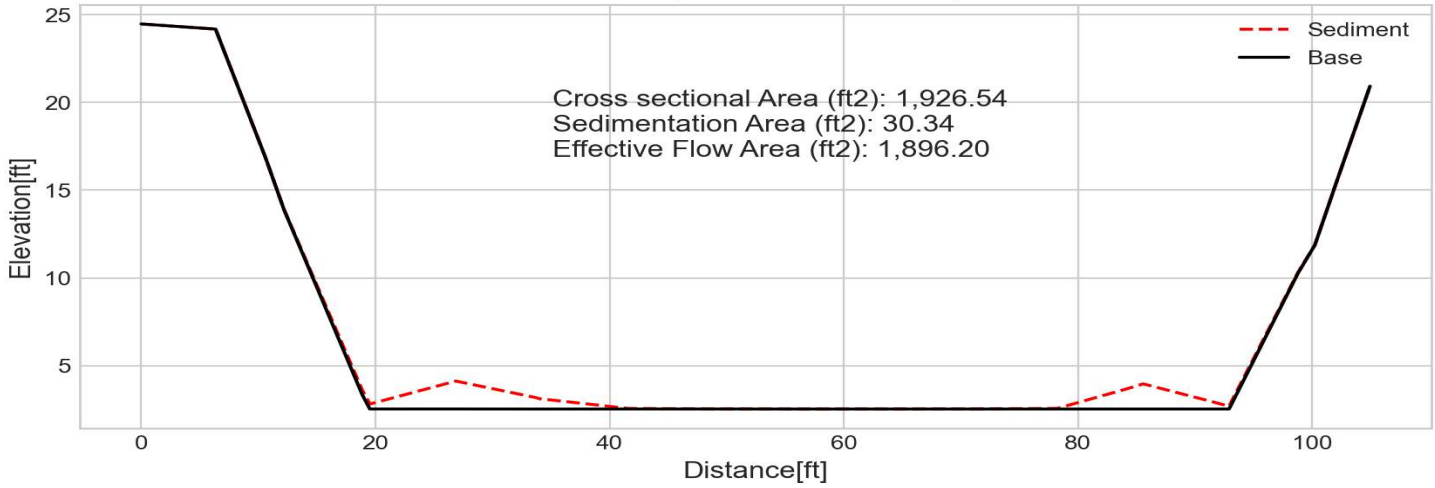
Year 3 (Station: 190+00)



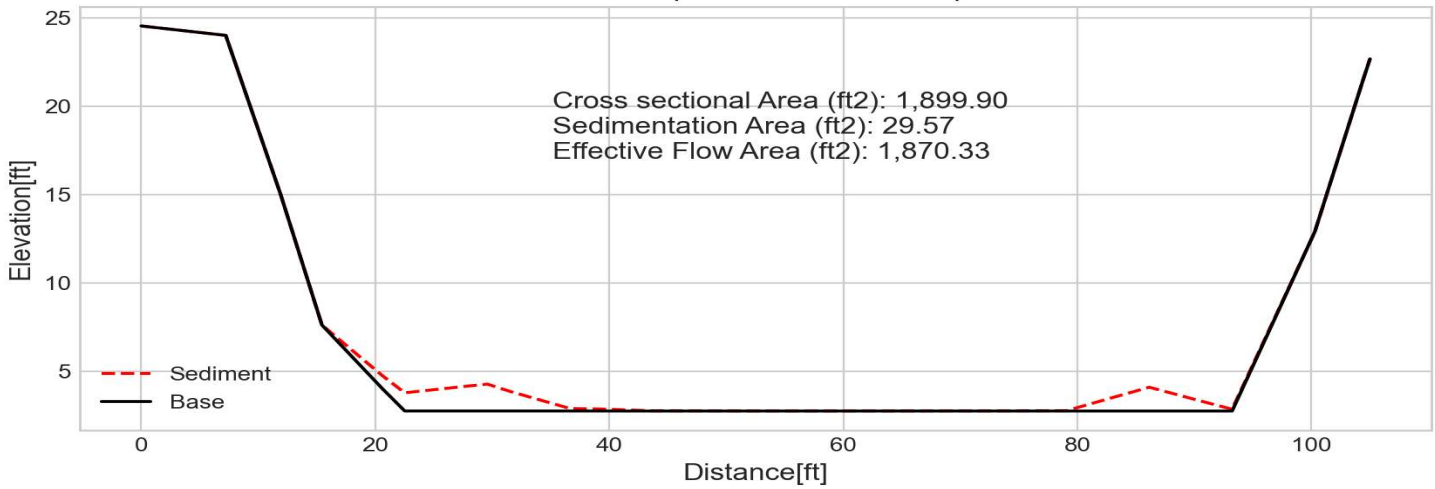
Year 3 (Station: 191+00)



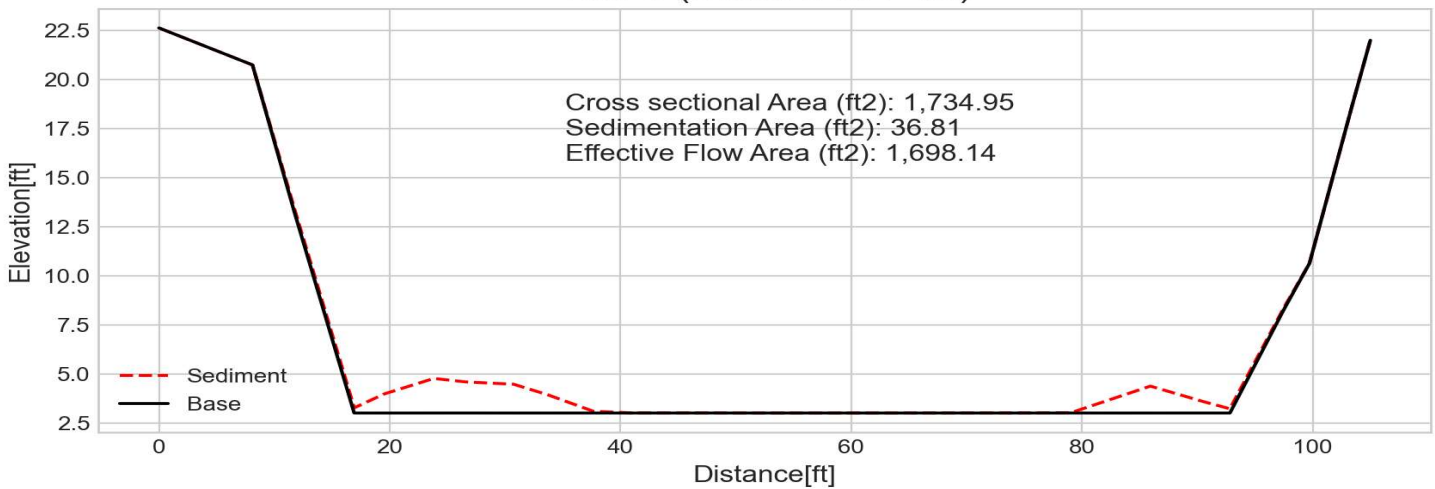
Year 3 (Station: 192+00)



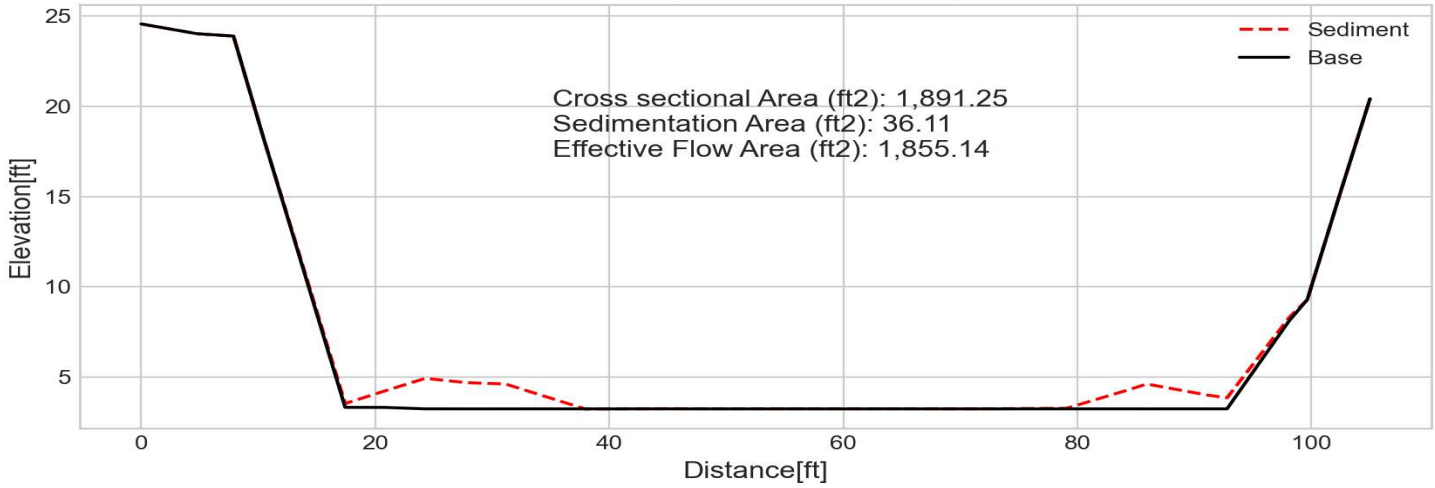
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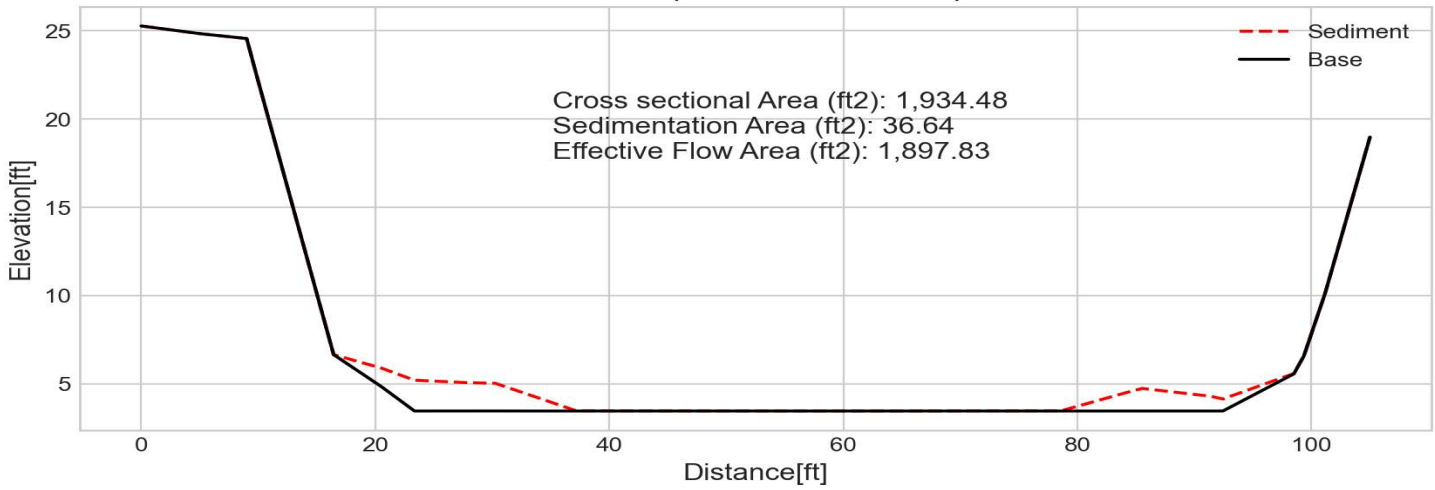
Year 3 (Station: 194+00)



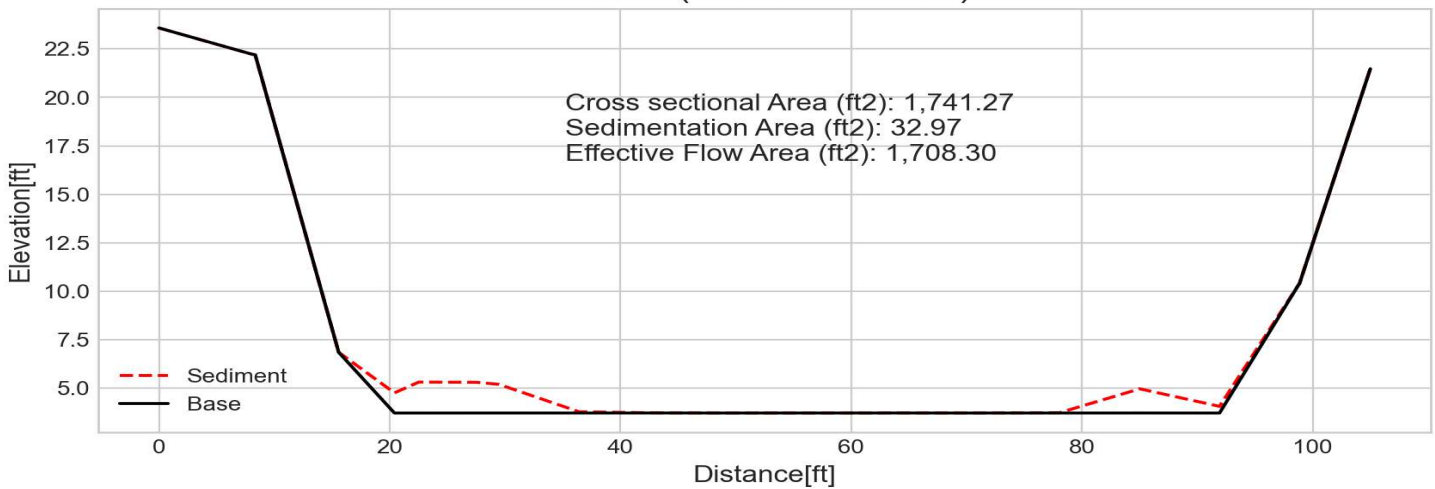
Year 3 (Station: 195+00)



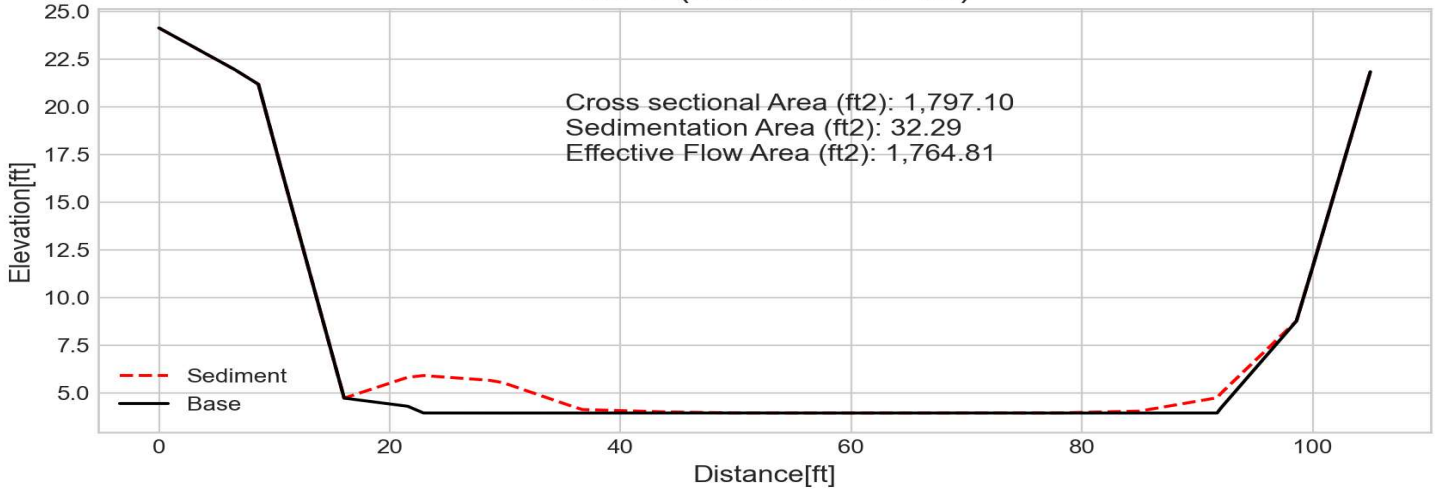
Year 3 (Station: 196+00)



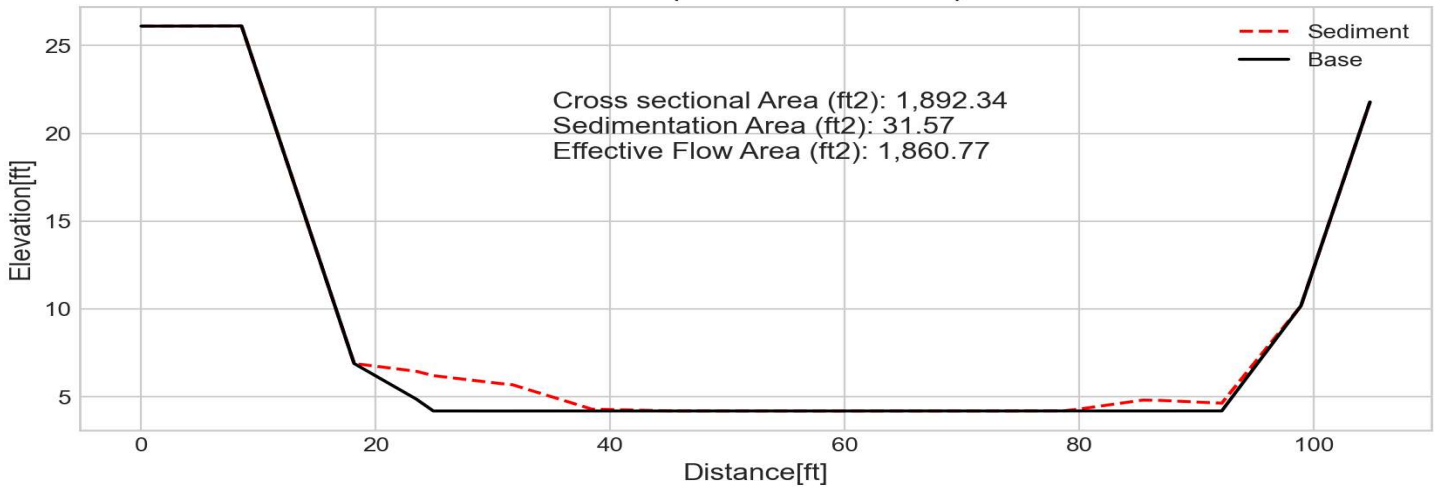
Year 3 (Station: 197+00)



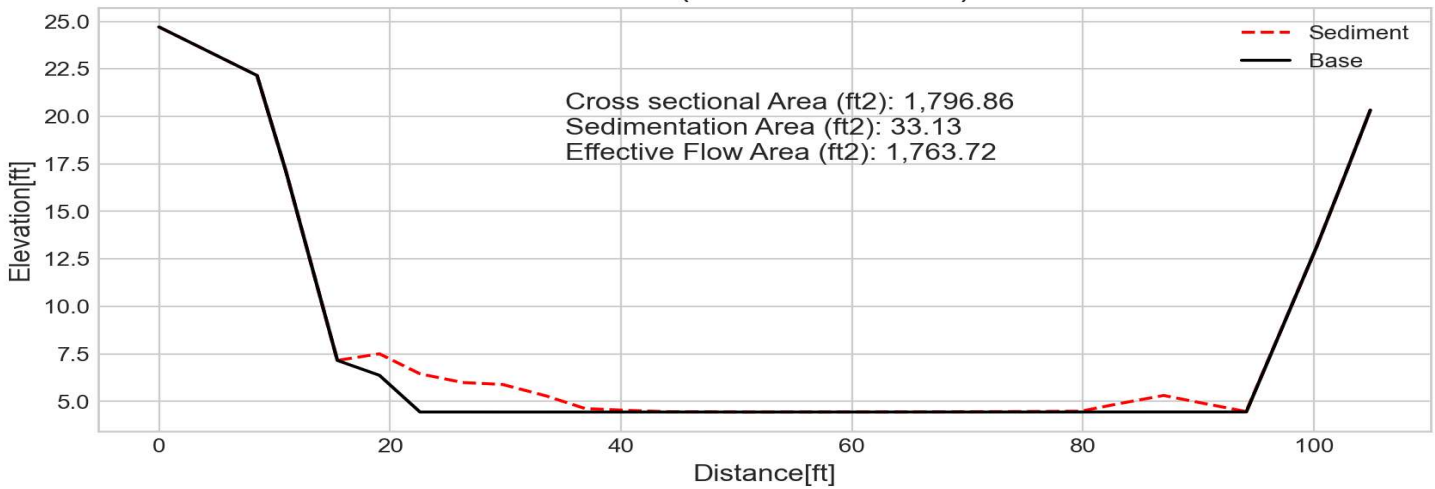
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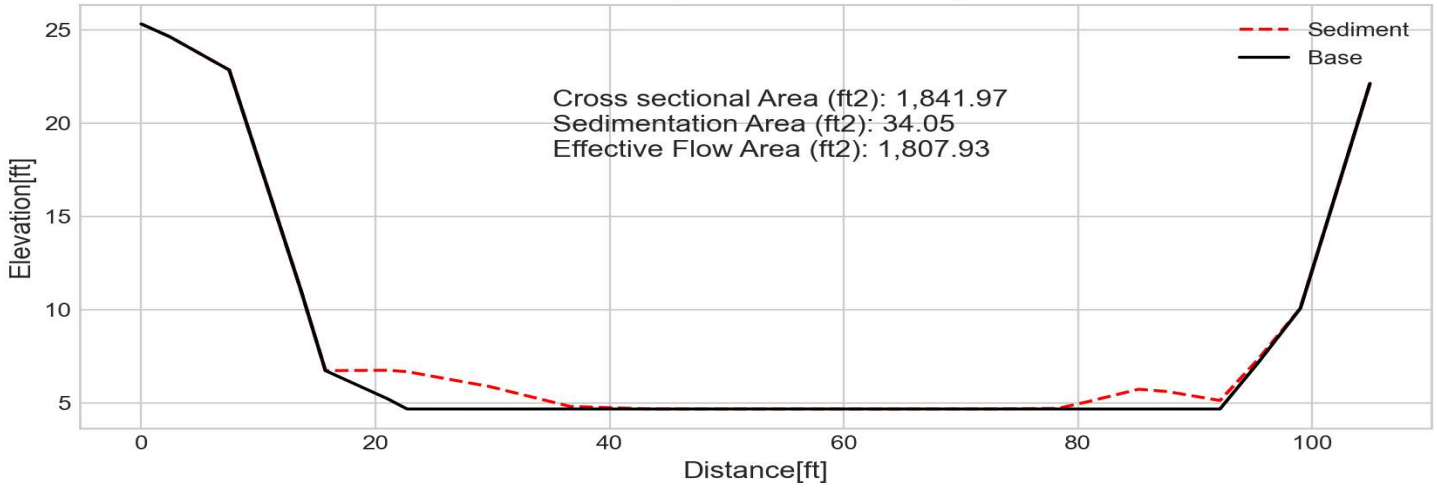
Year 3 (Station: 199+00)



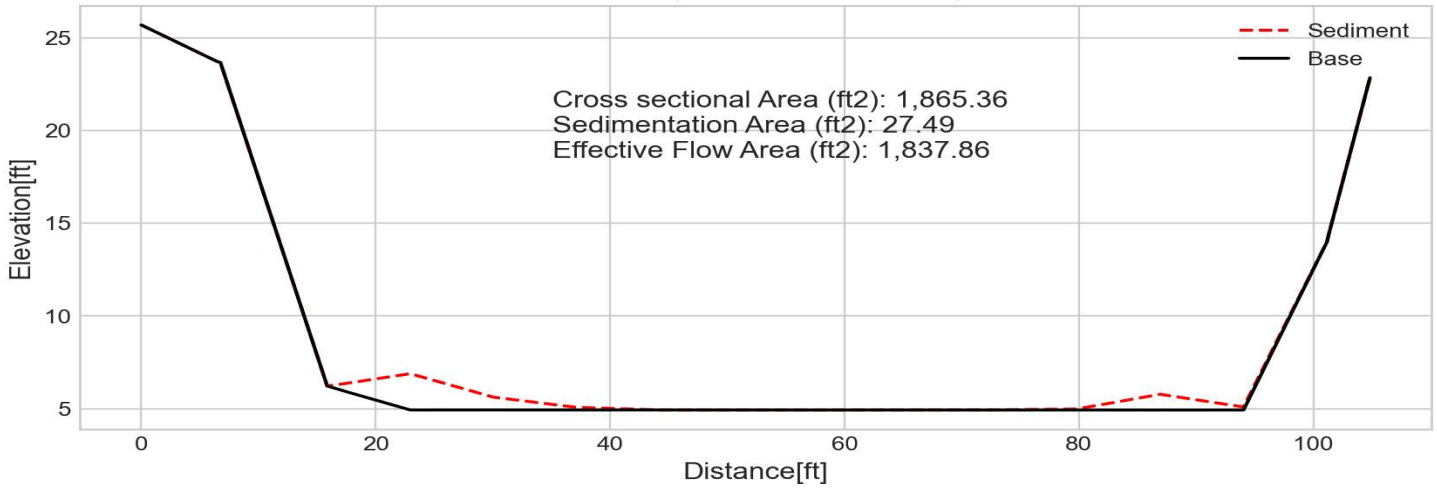
Year 3 (Station: 200+00)



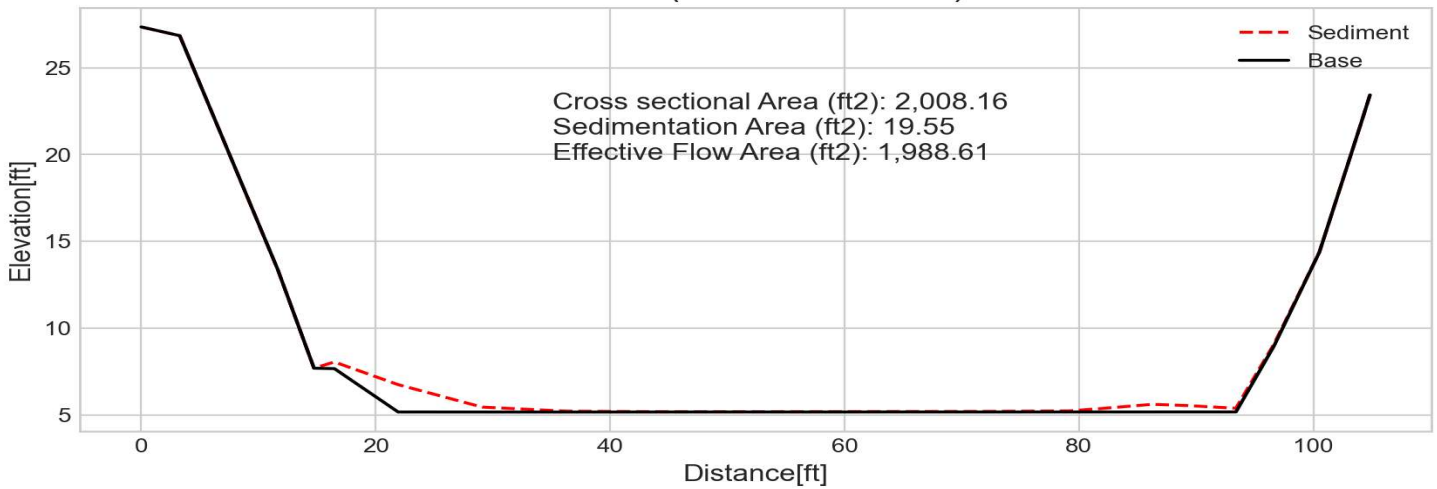
Year 3 (Station: 201+00)



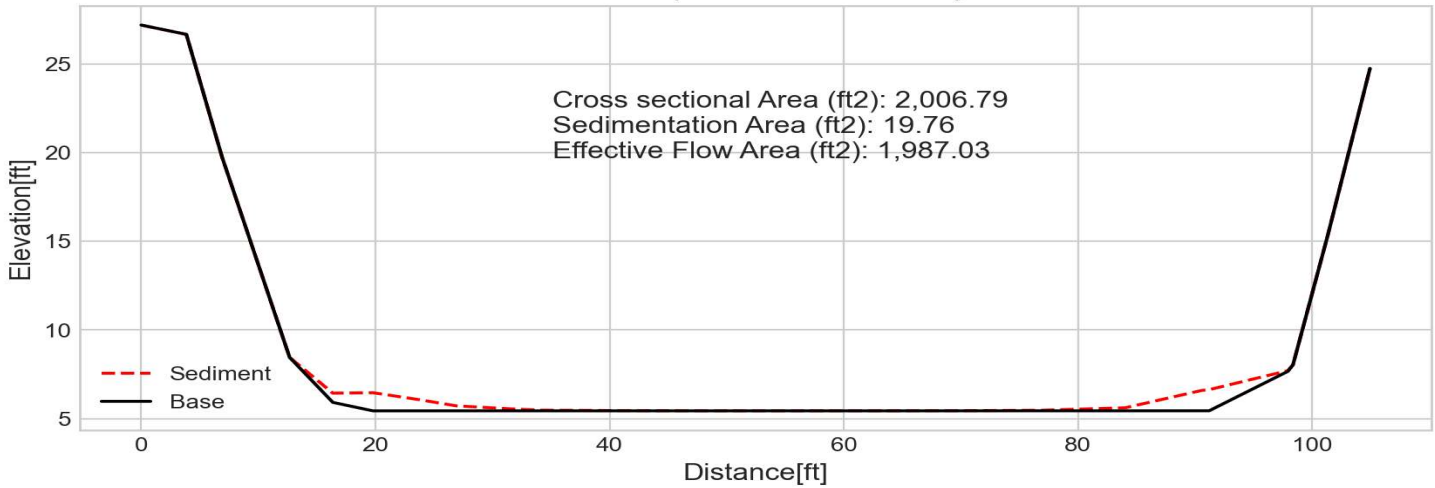
Year 3 (Station: 202+00)



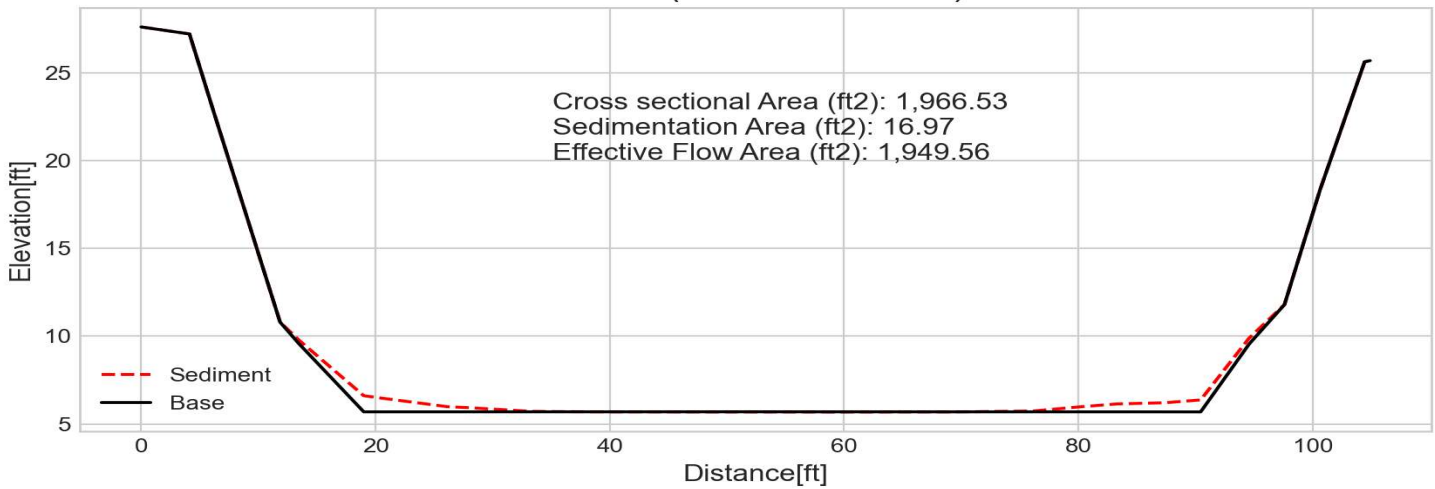
Year 3 (Station: 203+00)



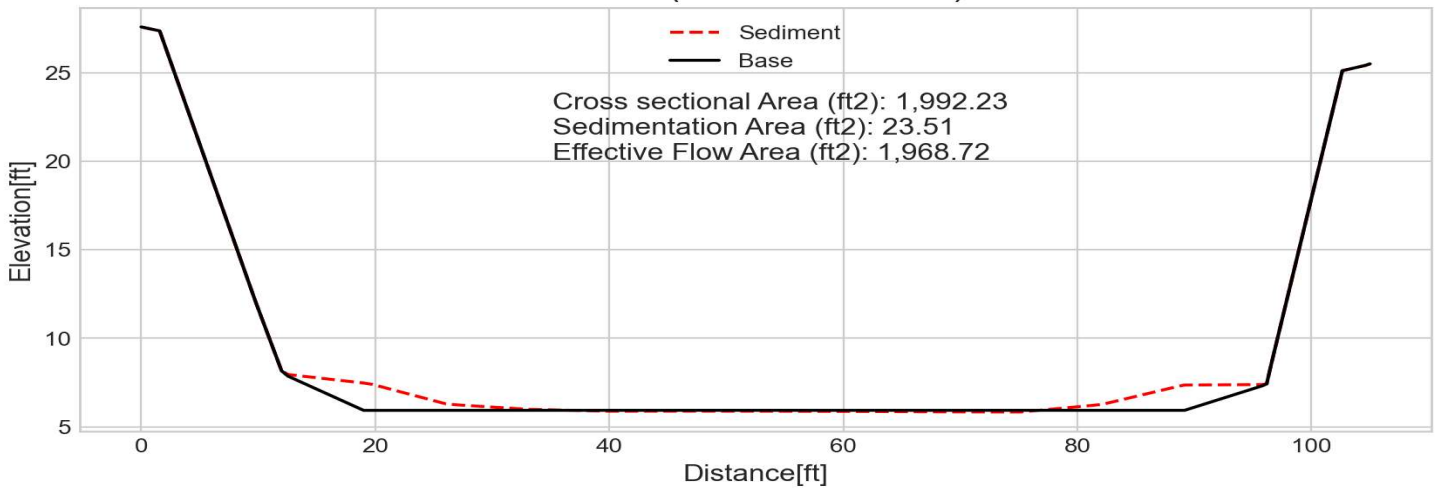
Year 3 (Station: 204+00)



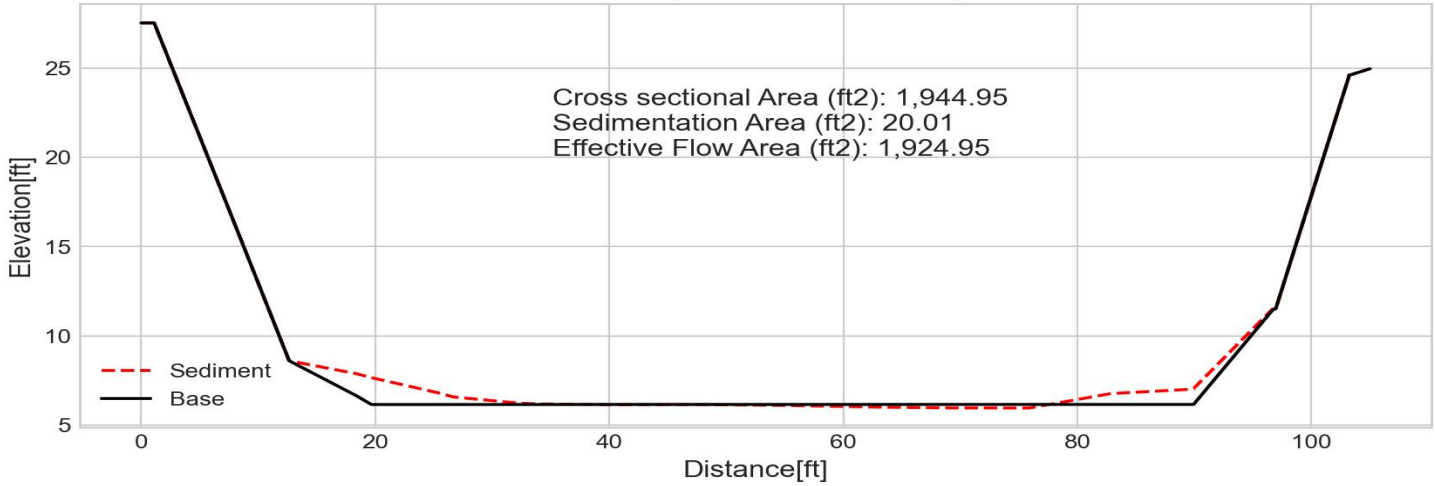
Year 3 (Station: 205+00)



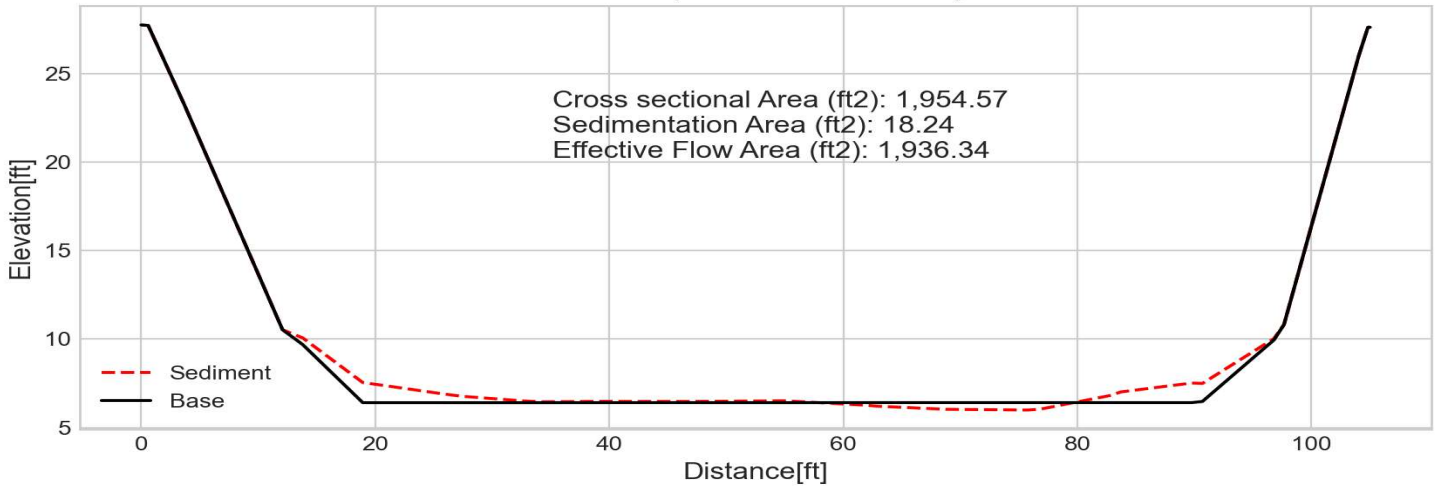
Year 3 (Station: 206+00)



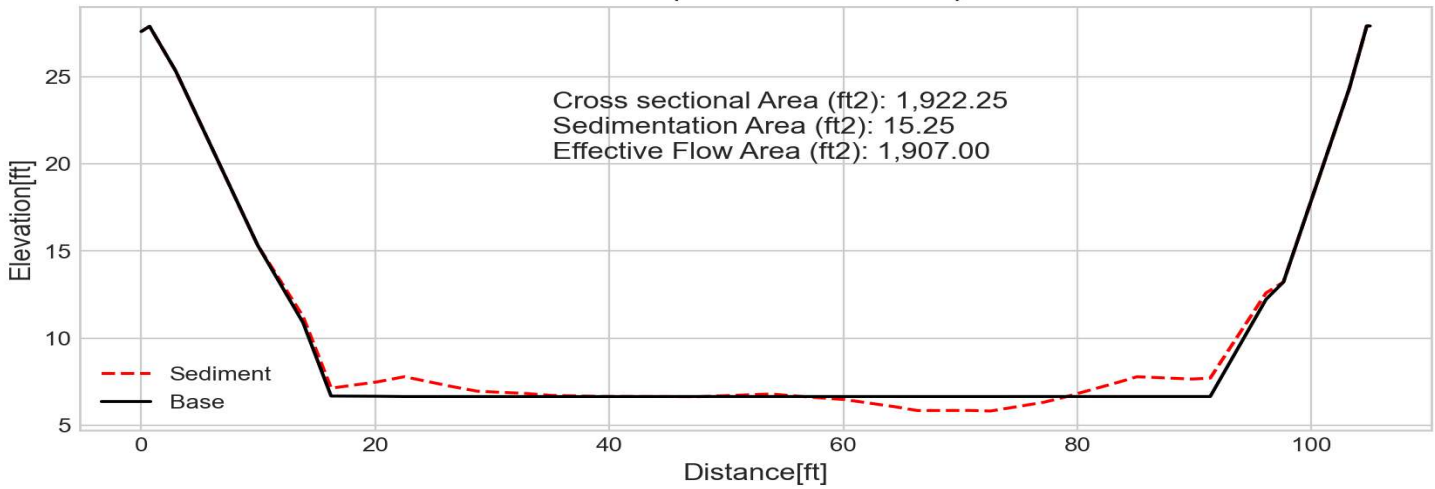
Year 3 (Station: 207+00)



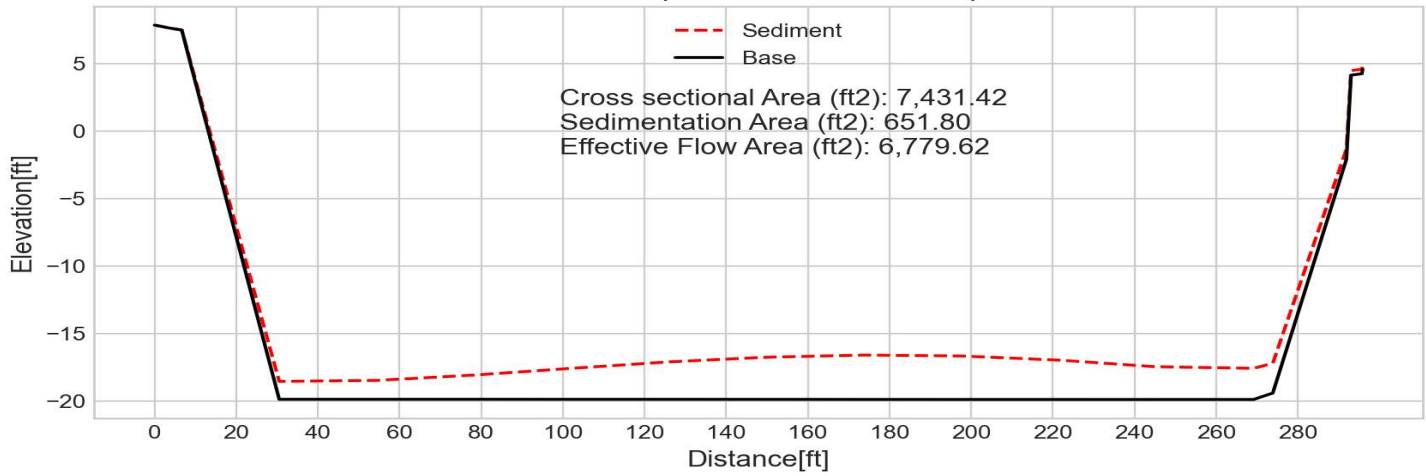
Year 3 (Station: 208+00)



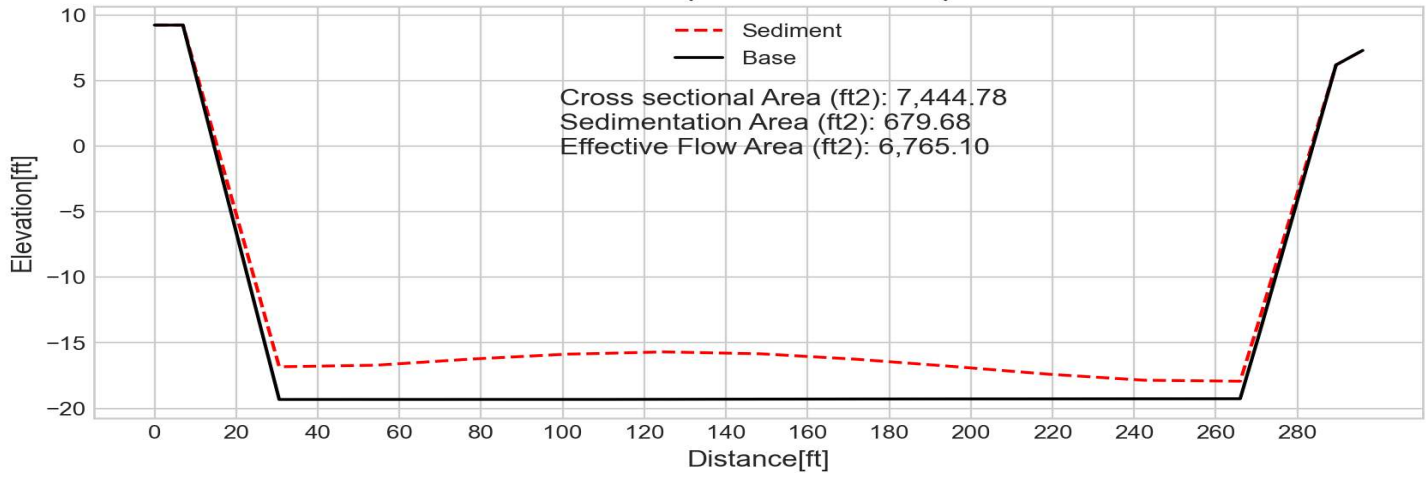
Year 3 (Station: 209+00)



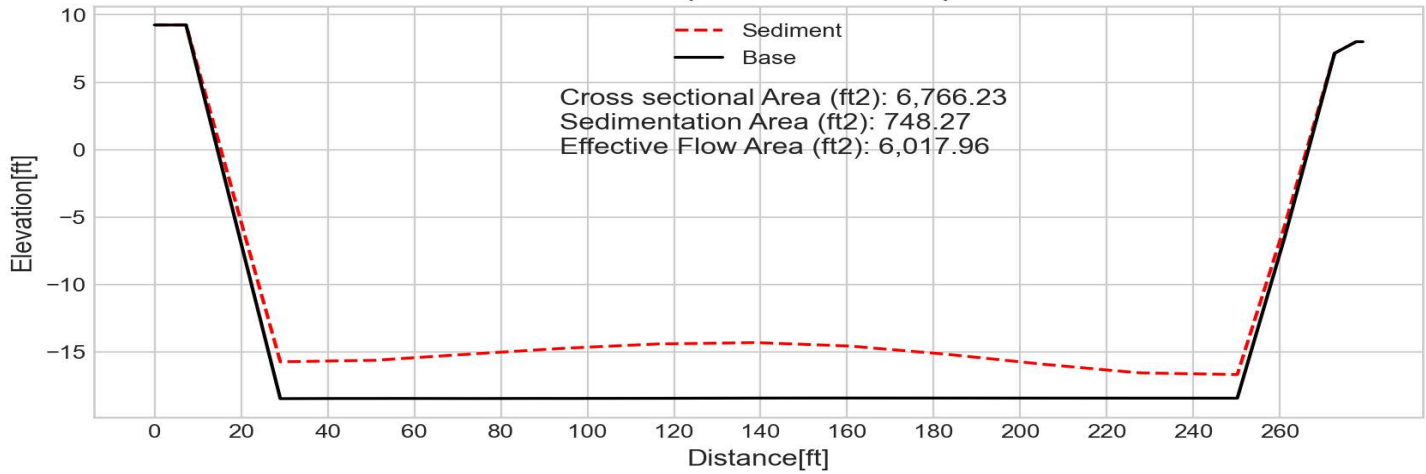
Year 4 (Station: 88+33.21)



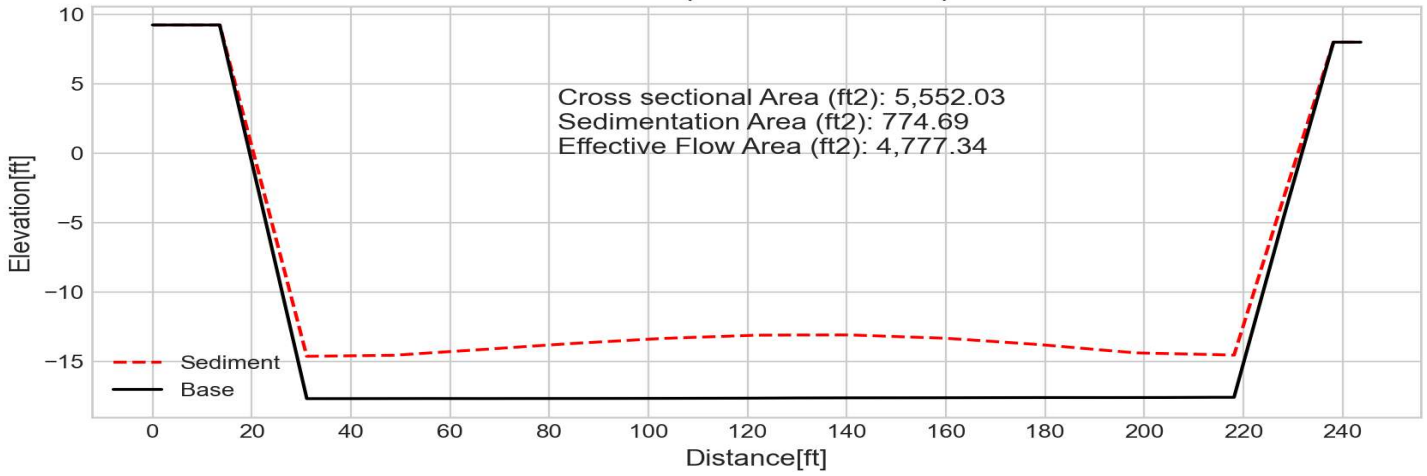
Year 4 (Station: 89+00)



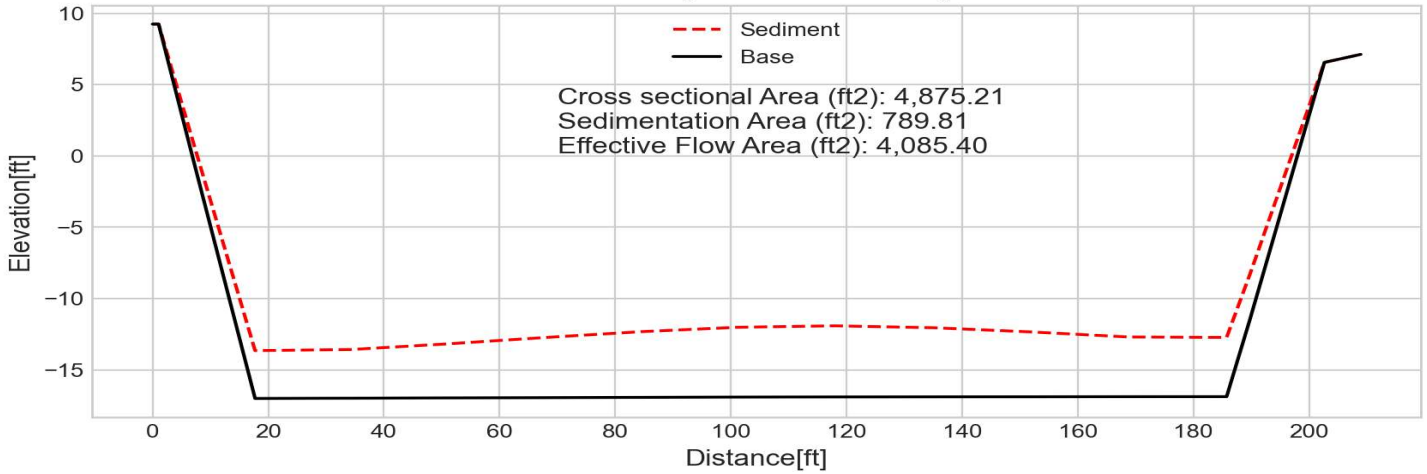
Year 4 (Station: 90+00)



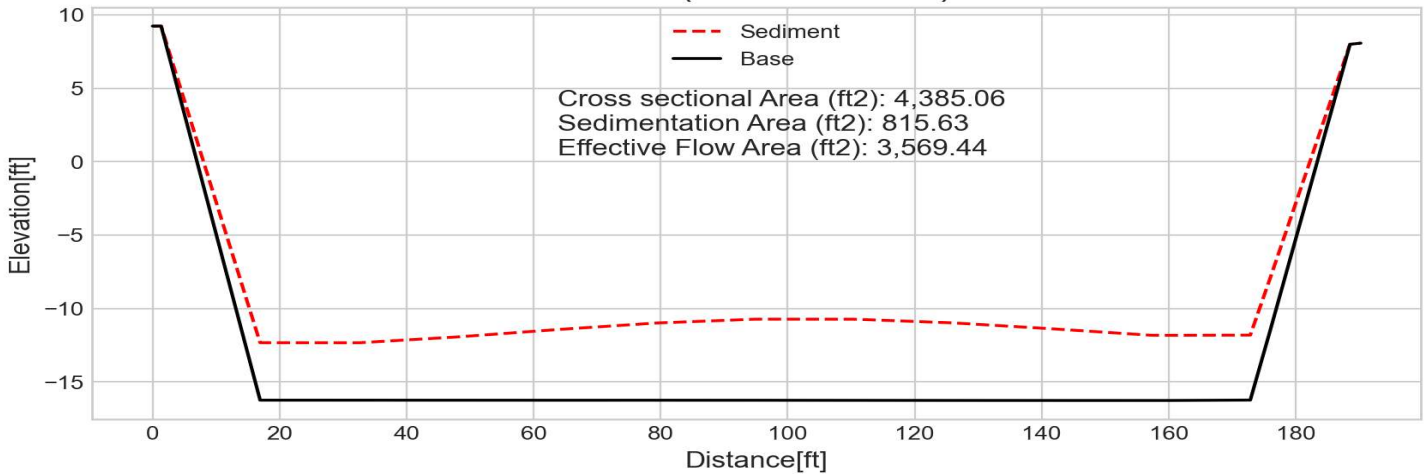
Year 4 (Station: 91+00)



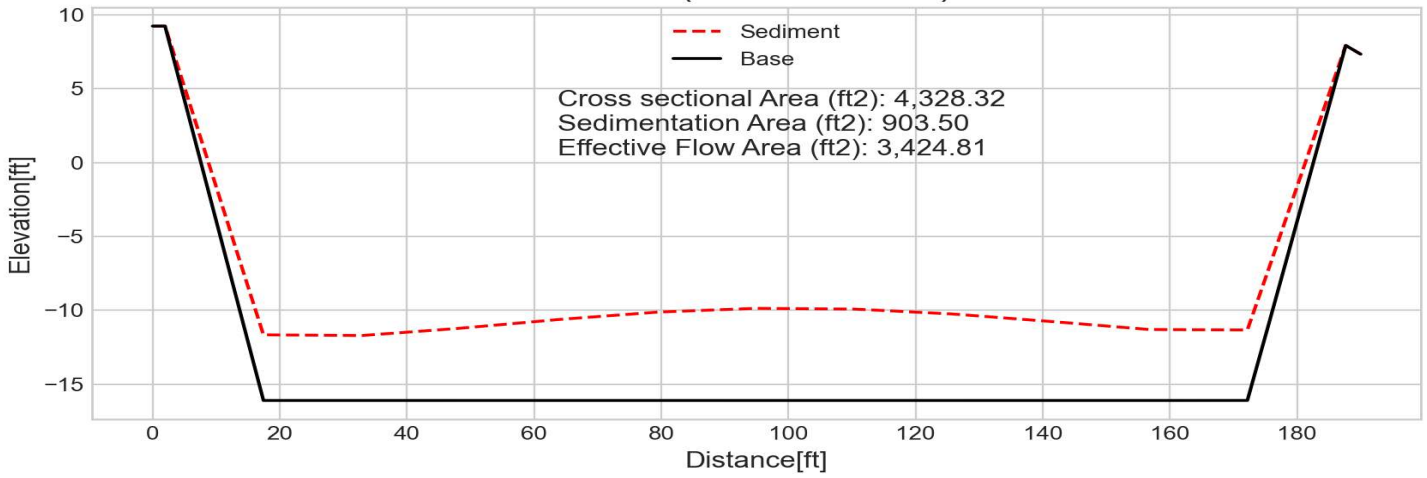
Year 4 (Station: 92+00)



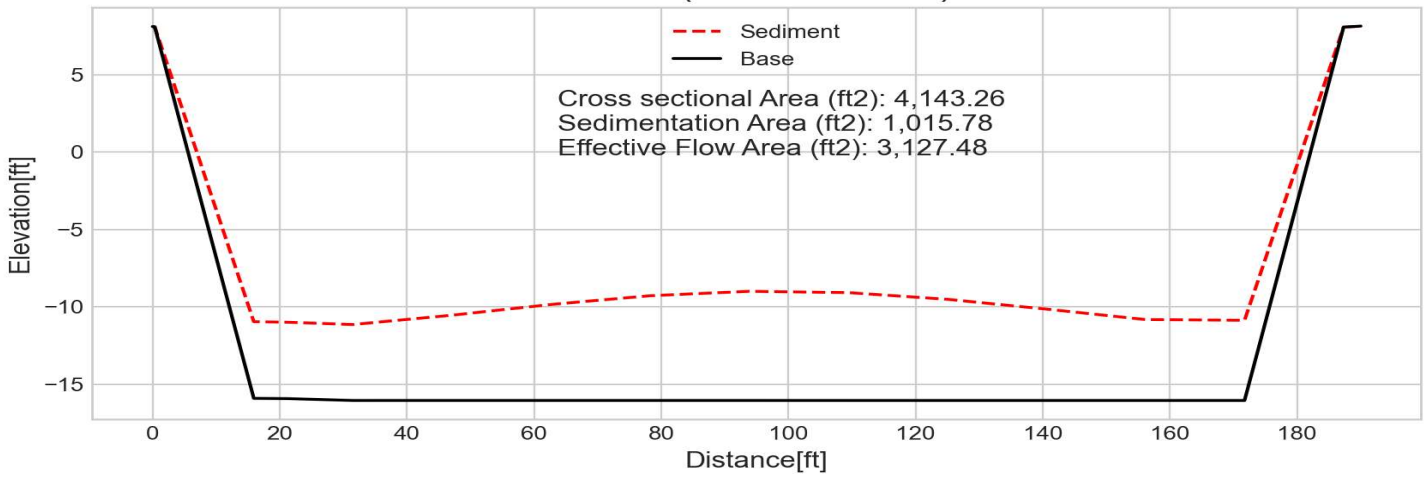
Year 4 (Station: 93+00)



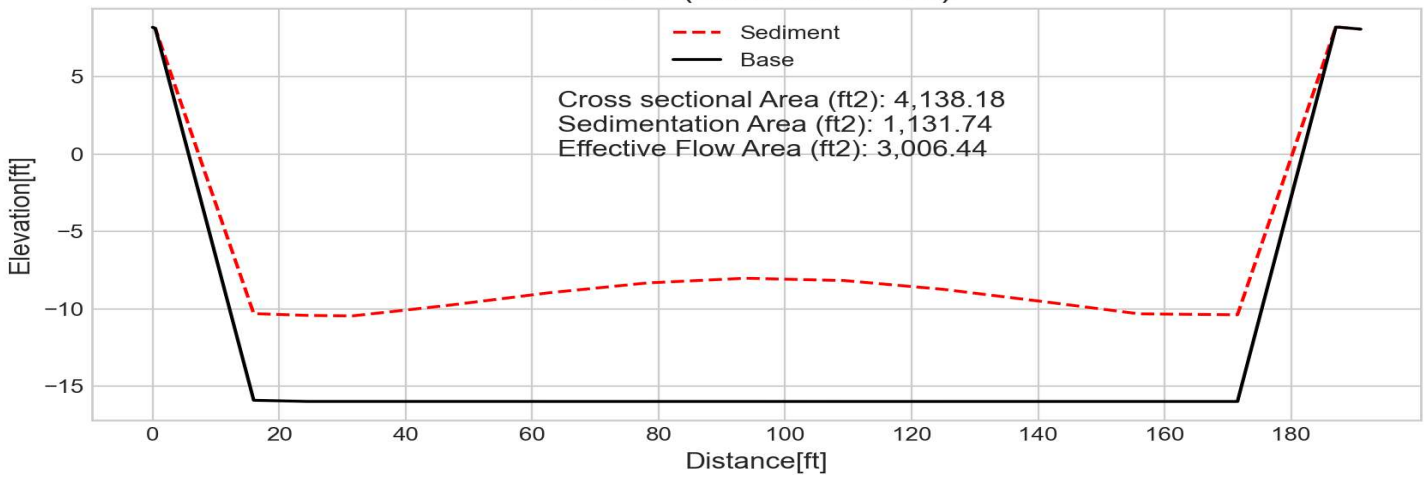
Year 4 (Station: 94+00)



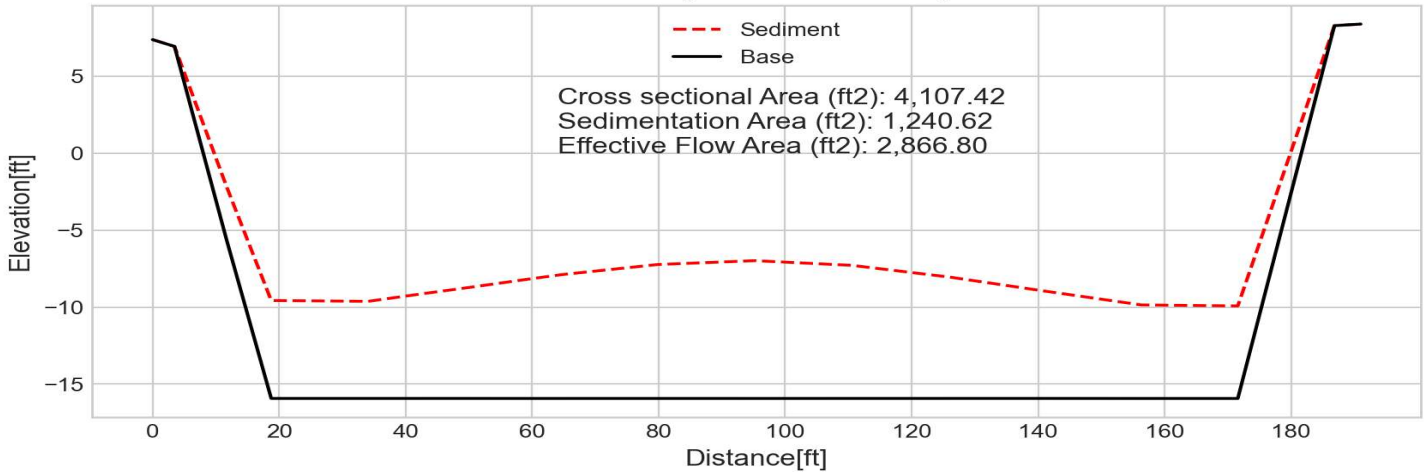
Year 4 (Station: 95+00)



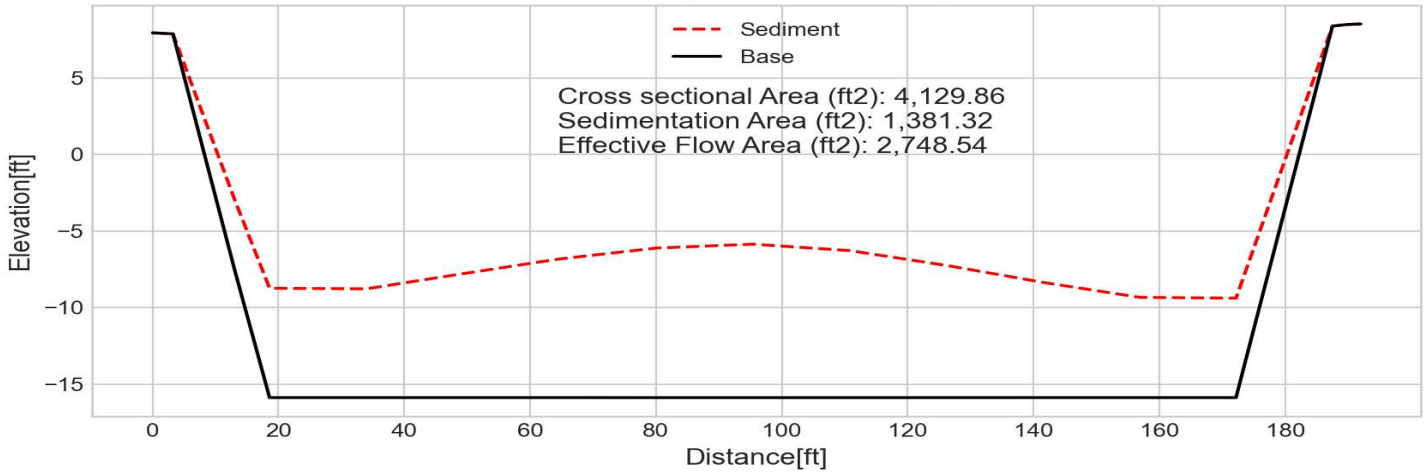
Year 4 (Station: 96+00)



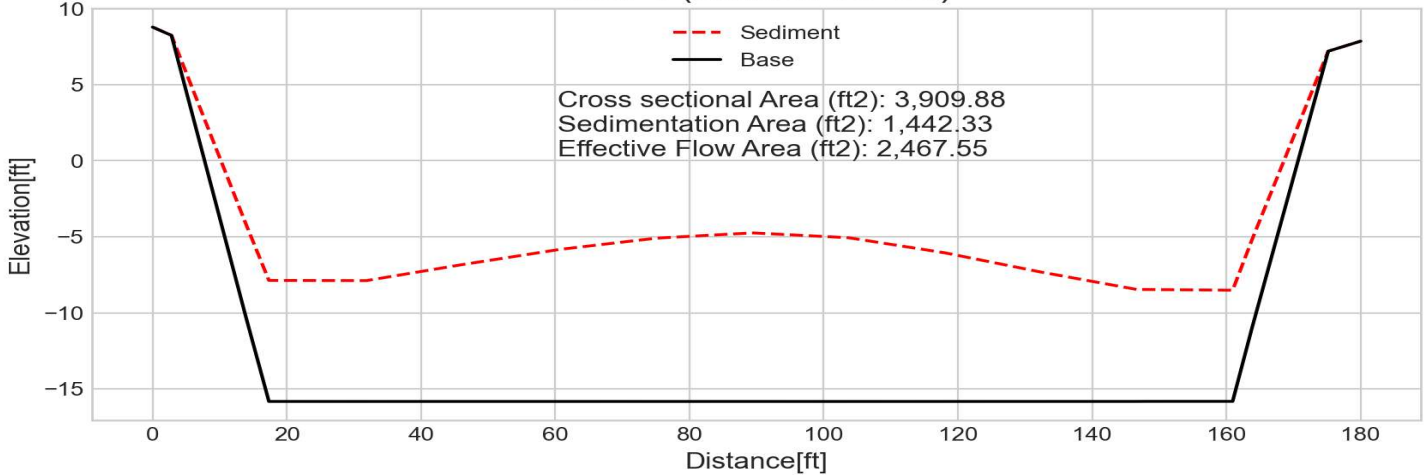
Year 4 (Station: 97+00)



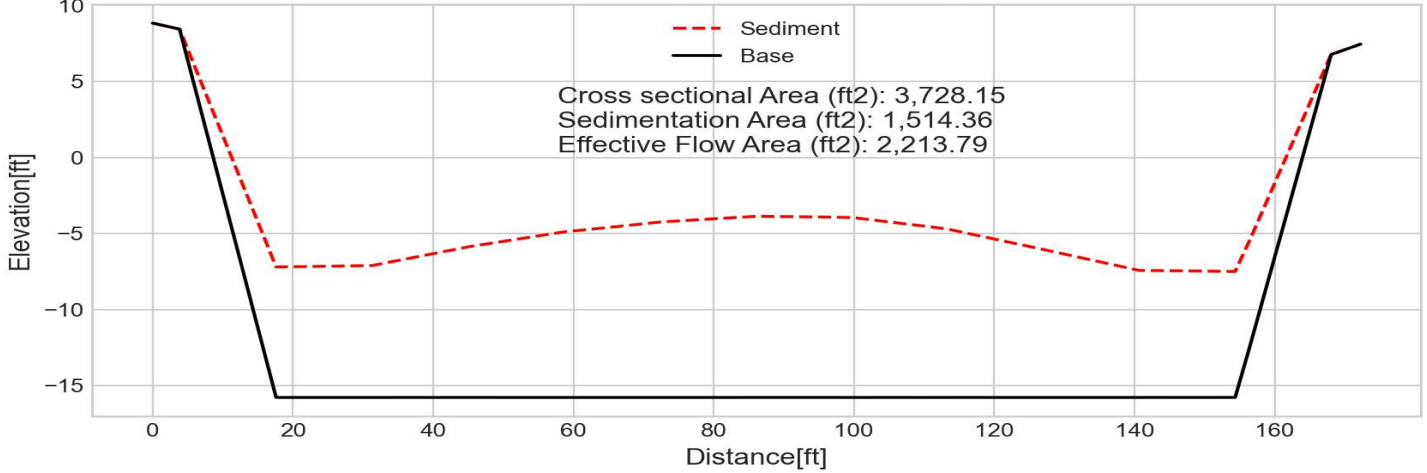
Year 4 (Station: 98+00)



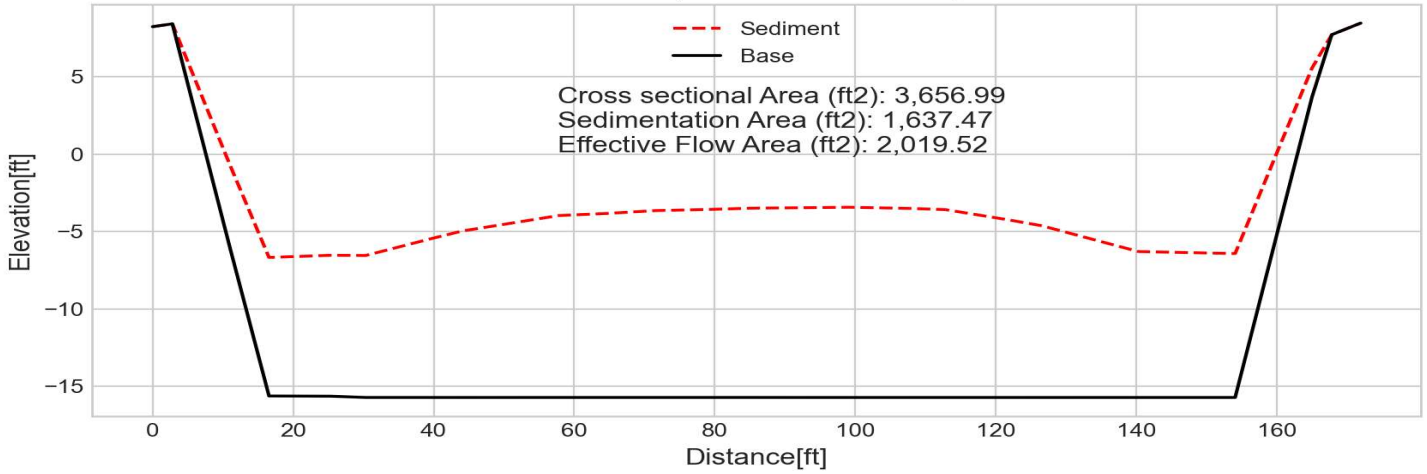
Year 4 (Station: 99+00)



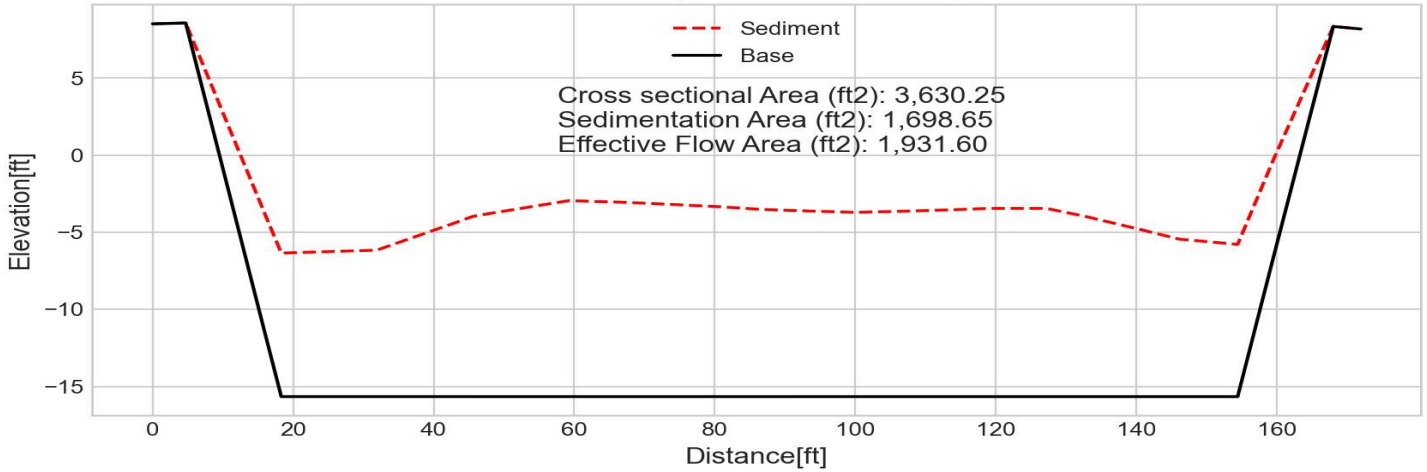
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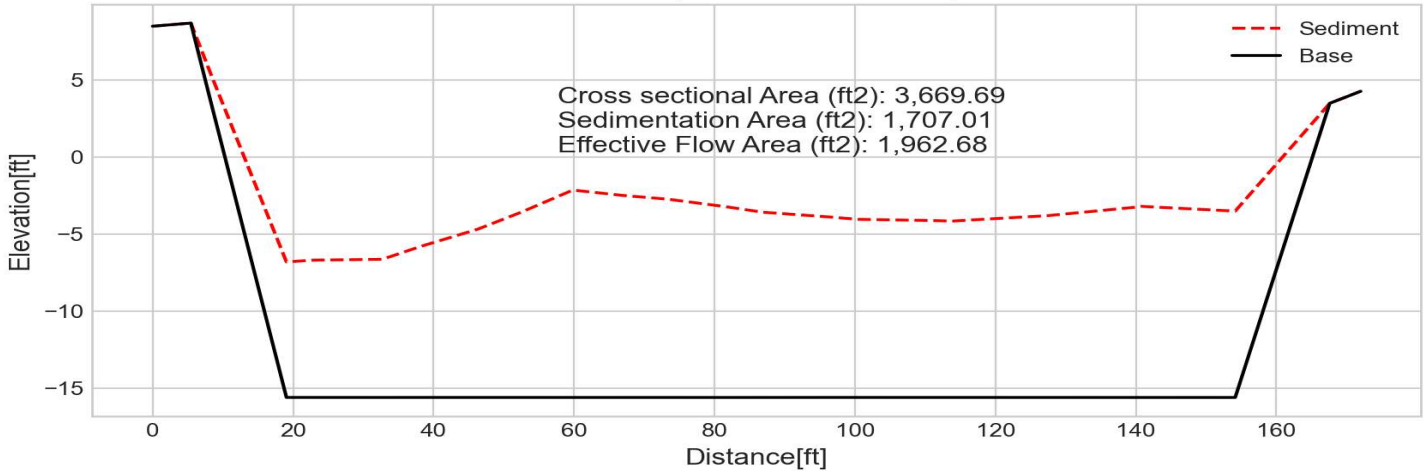
Year 4 (Station: 101+00)



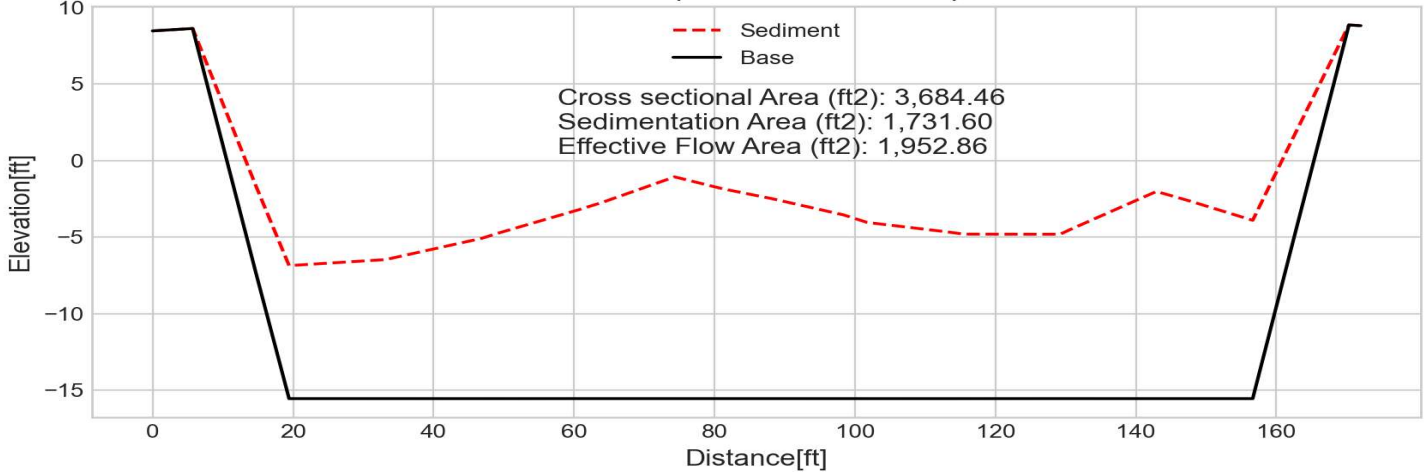
Year 4 (Station: 102+00)



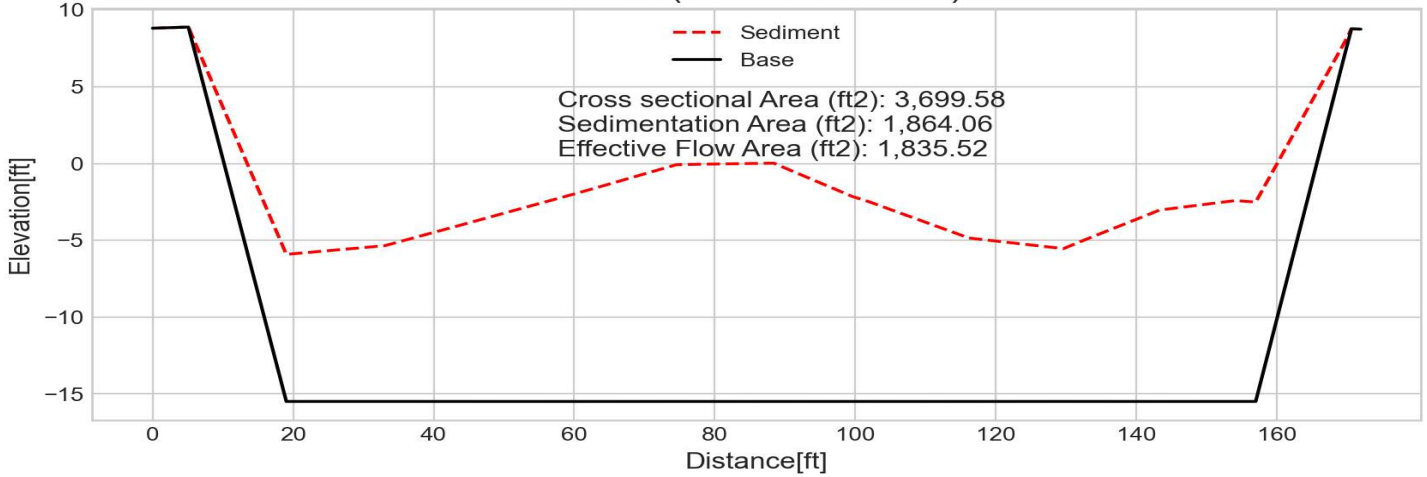
Year 4 (Station: 103+00)



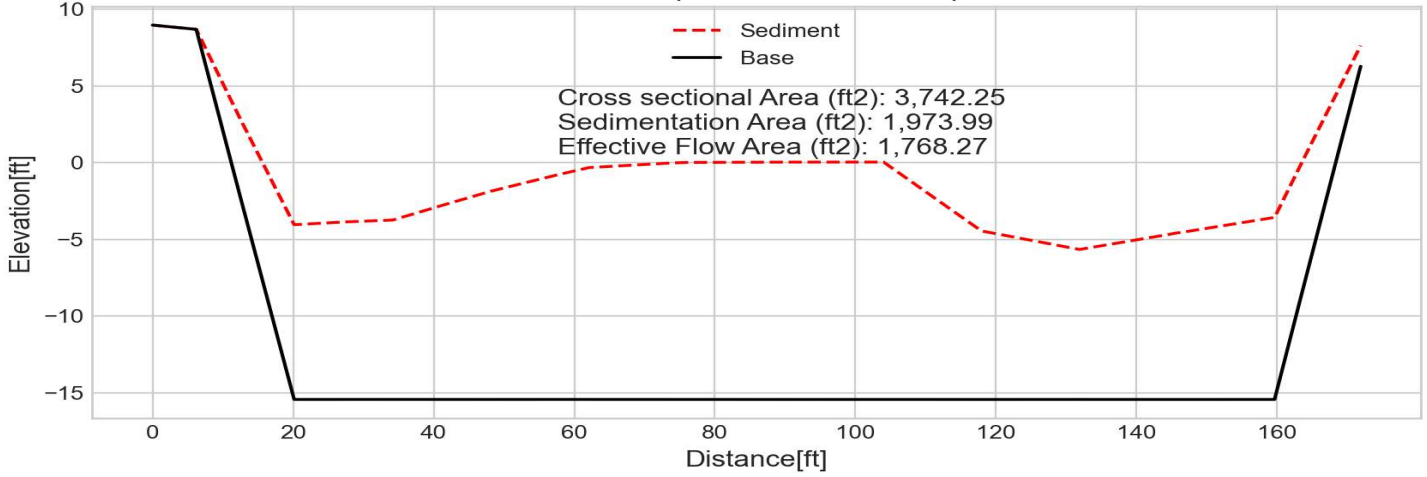
Year 4 (Station: 104+00)



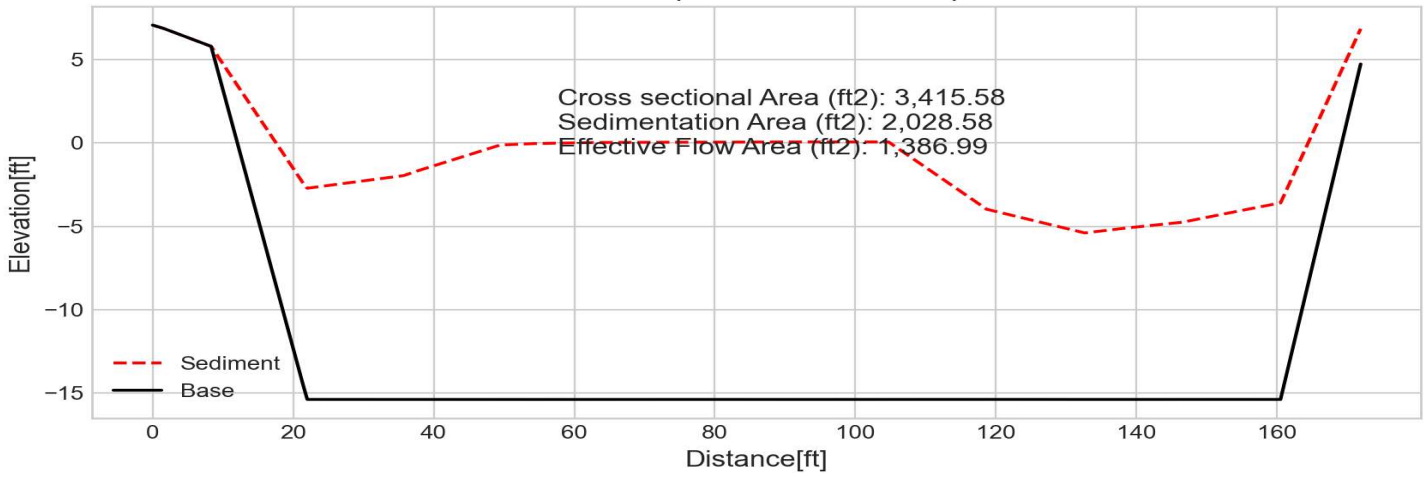
Year 4 (Station: 105+00)



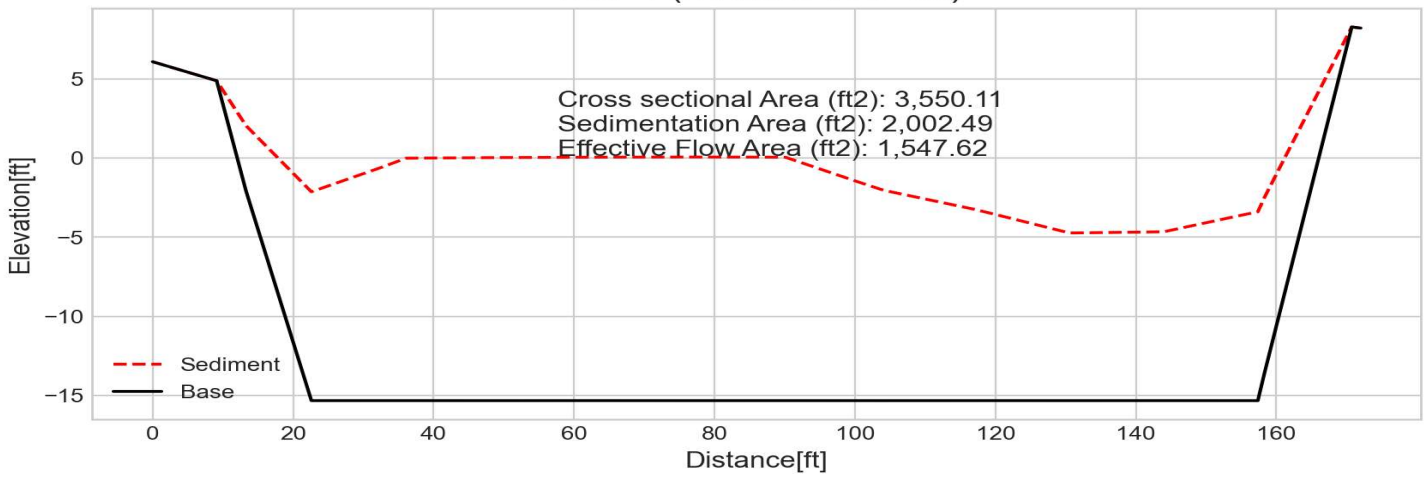
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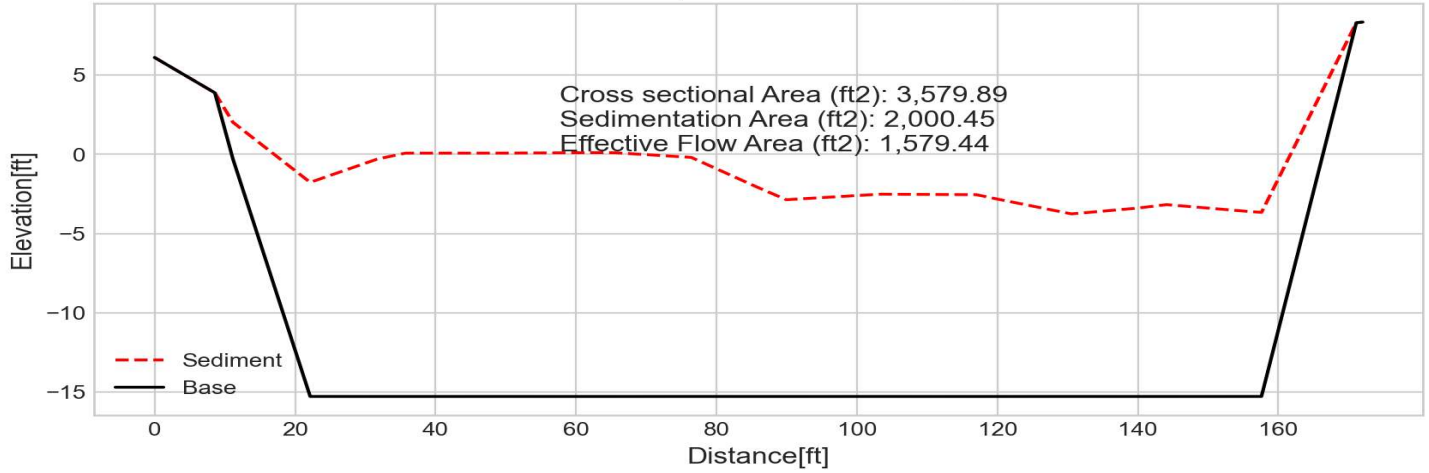
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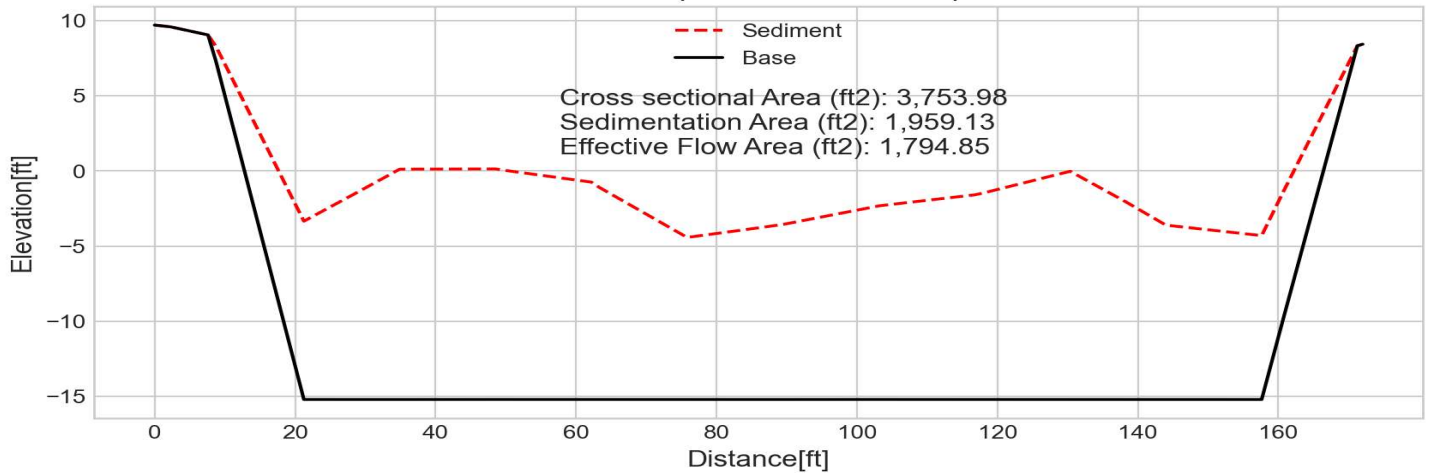
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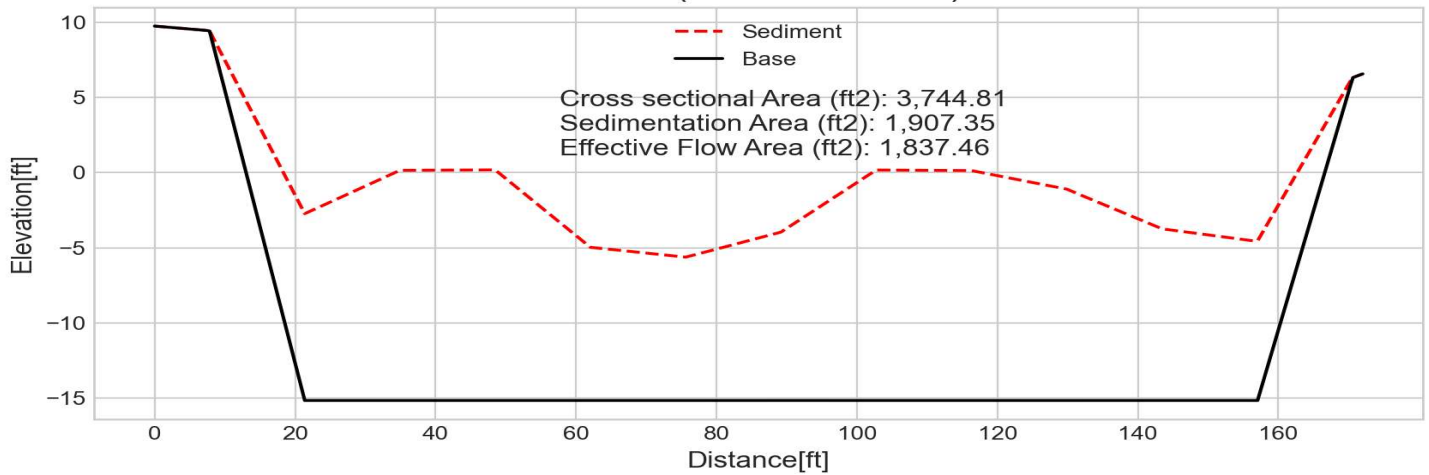
Year 4 (Station: 109+00)



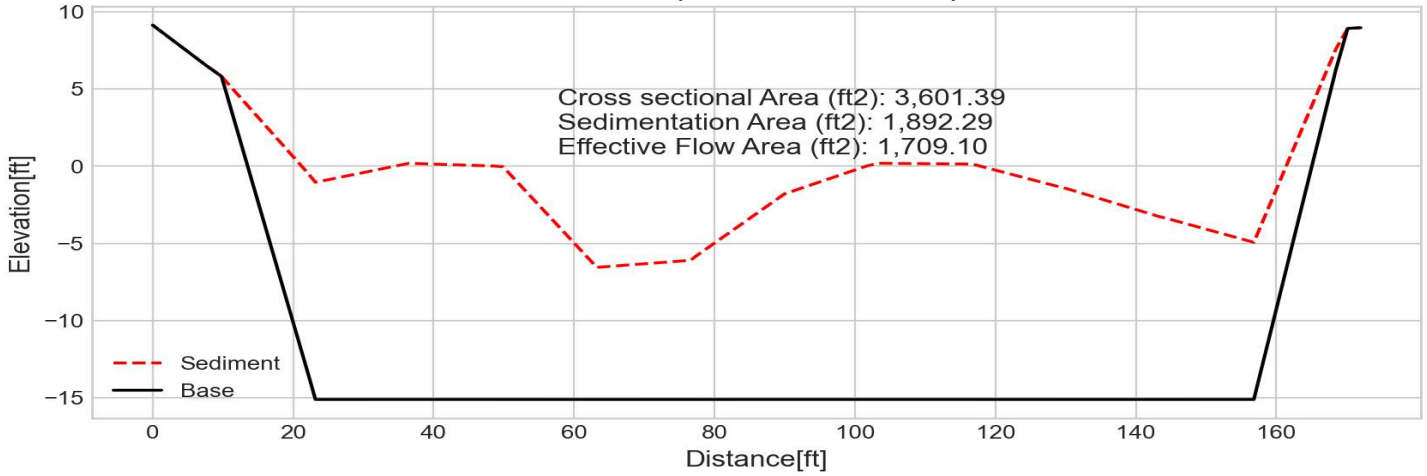
Year 4 (Station: 110+00)



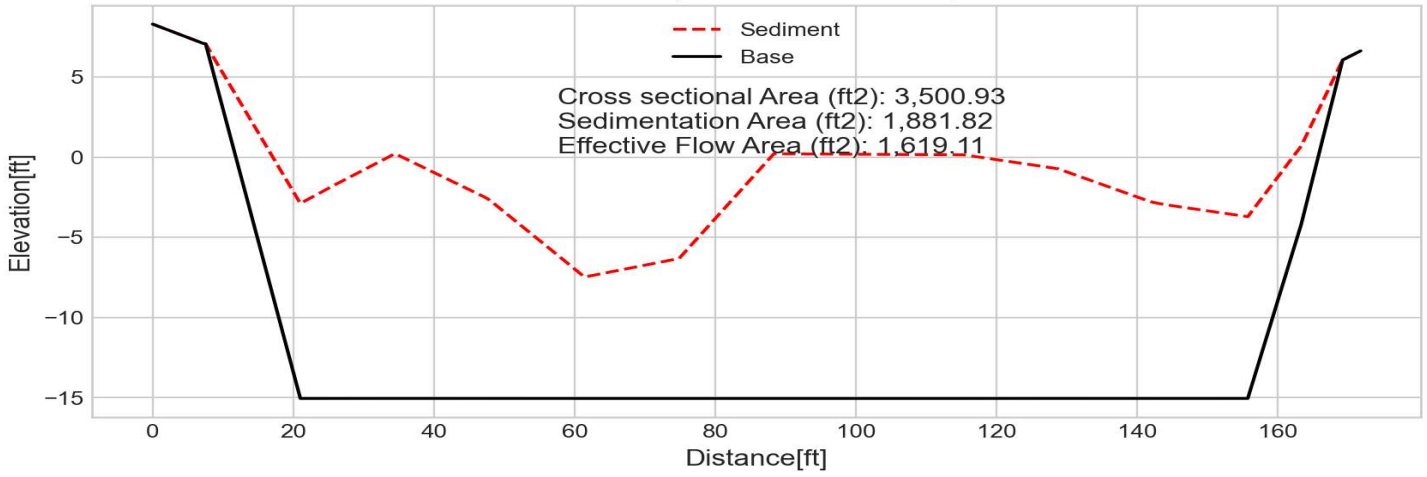
Year 4 (Station: 111+00)



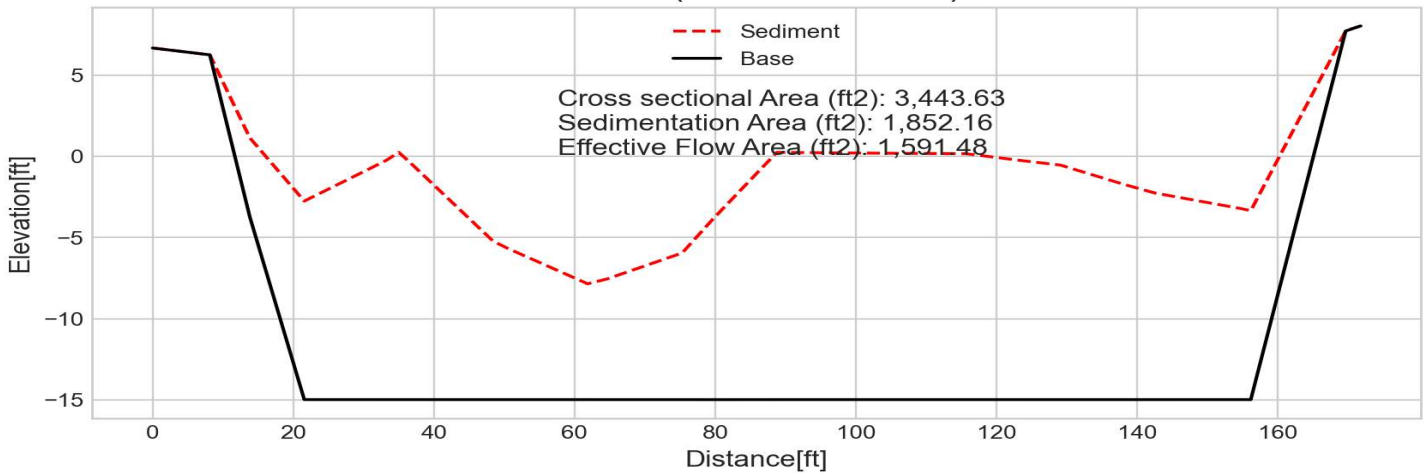
Year 4 (Station: 112+00)



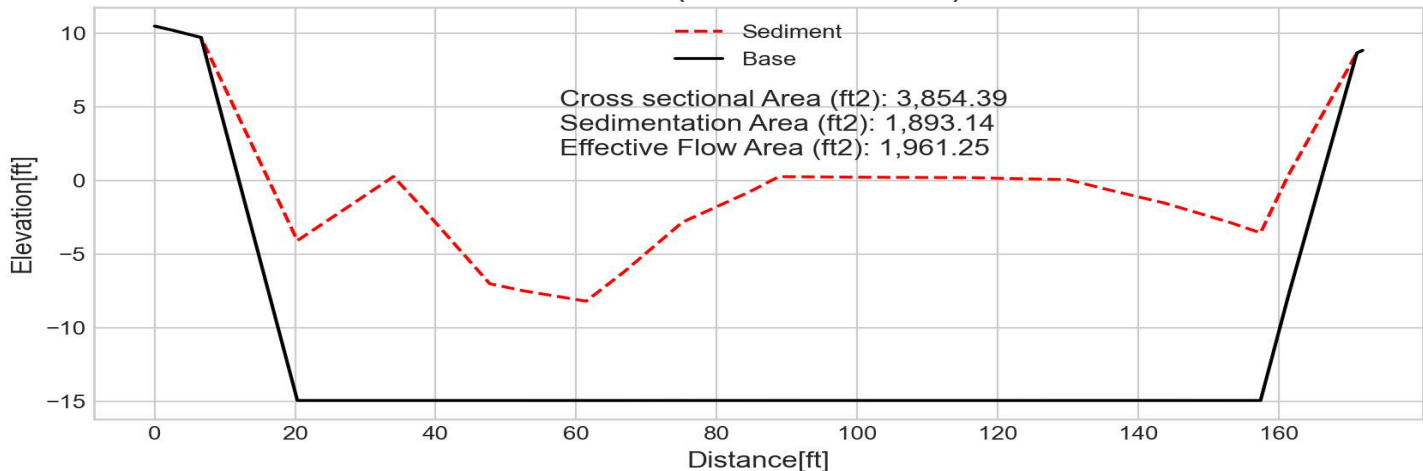
Year 4 (Station: 113+00)



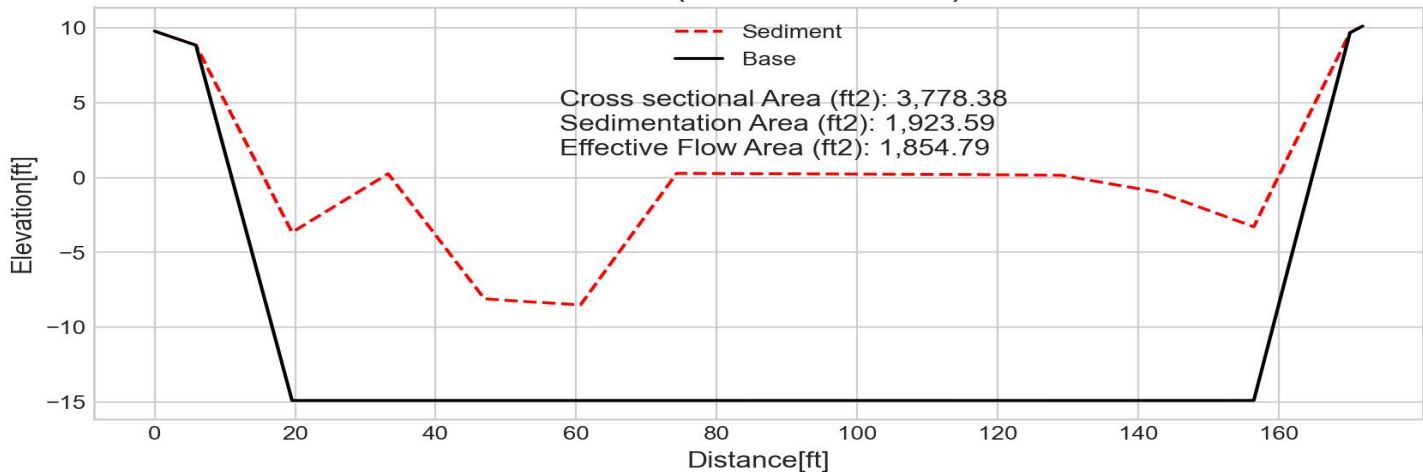
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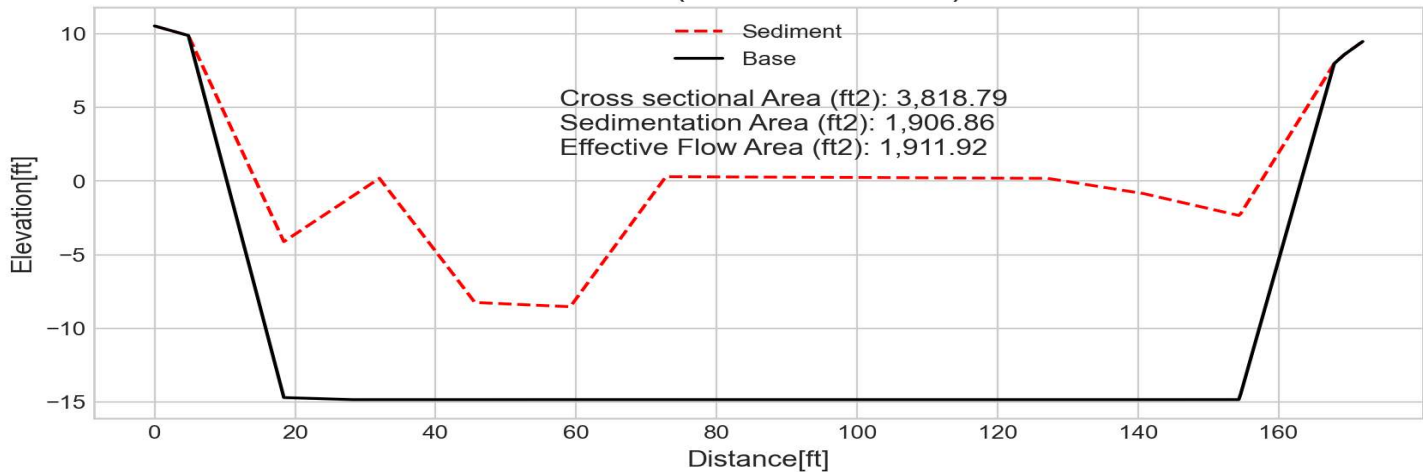
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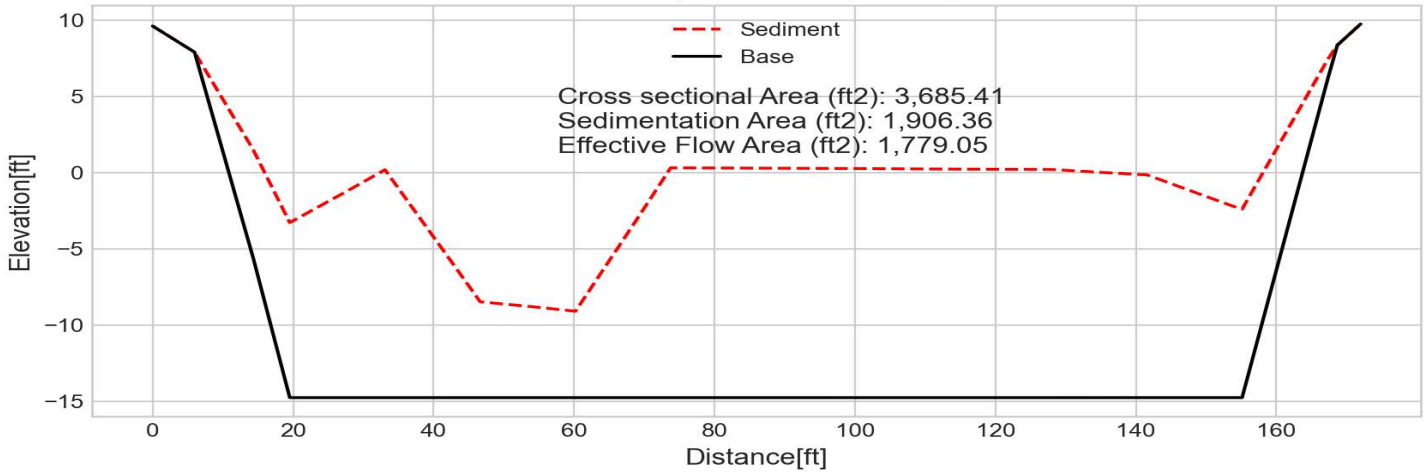
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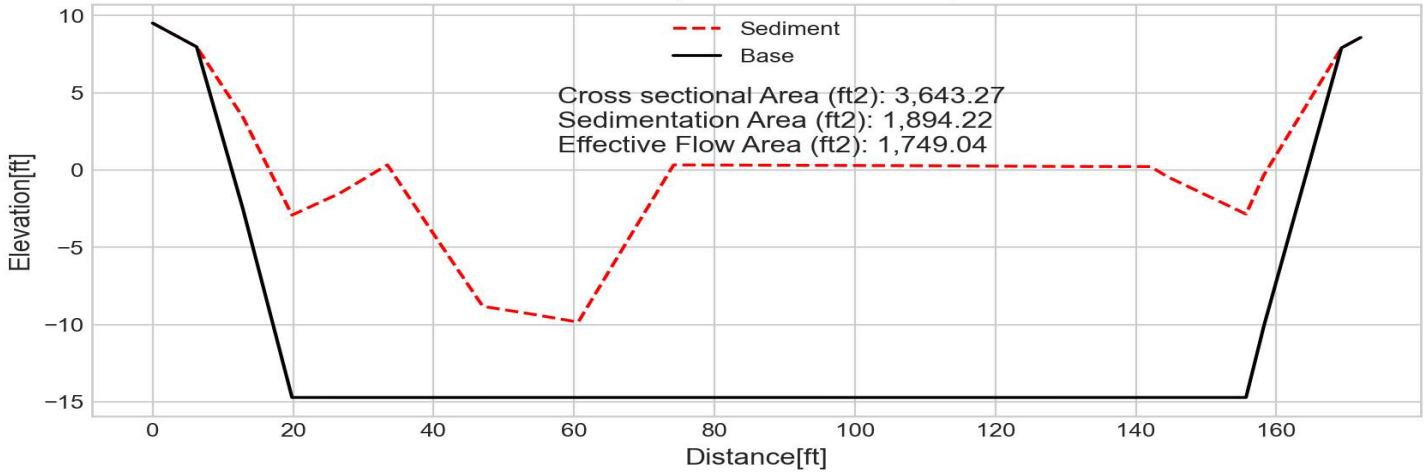
Year 4 (Station: 117+00)



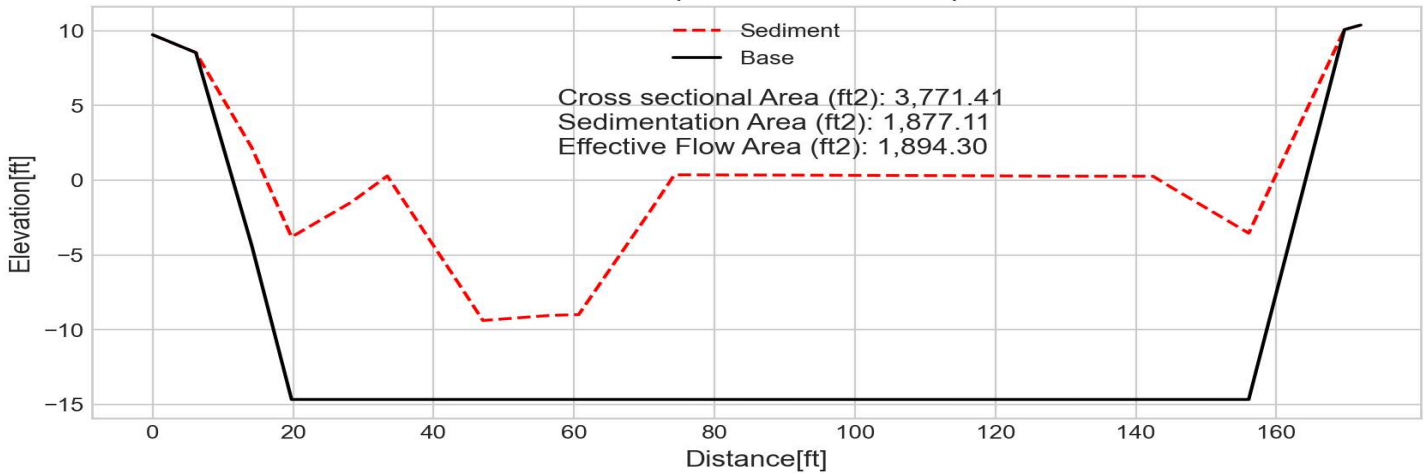
Year 4 (Station: 118+00)



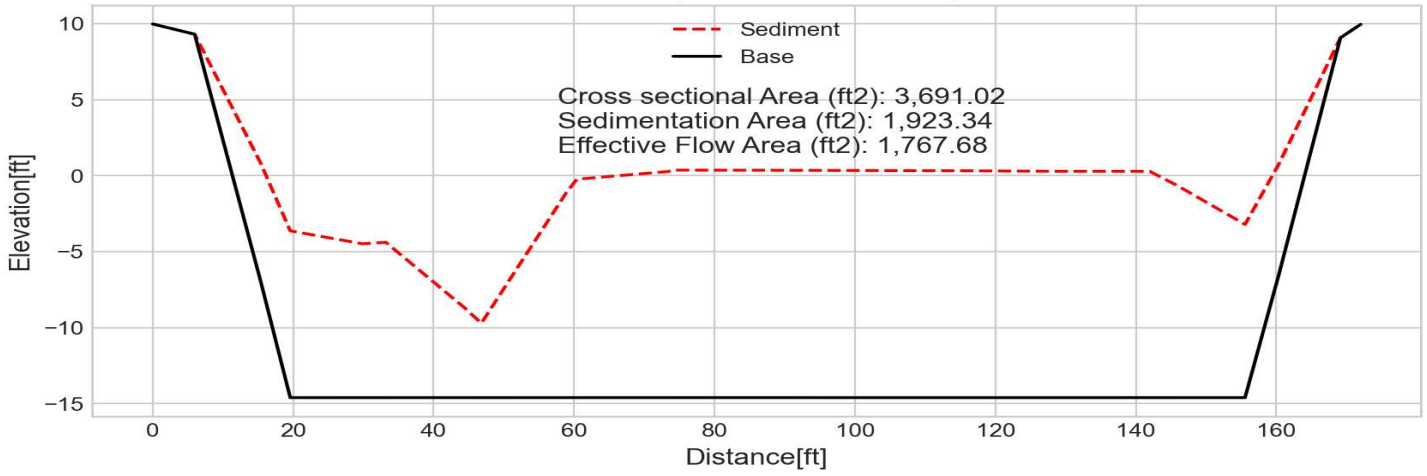
Year 4 (Station: 119+00)



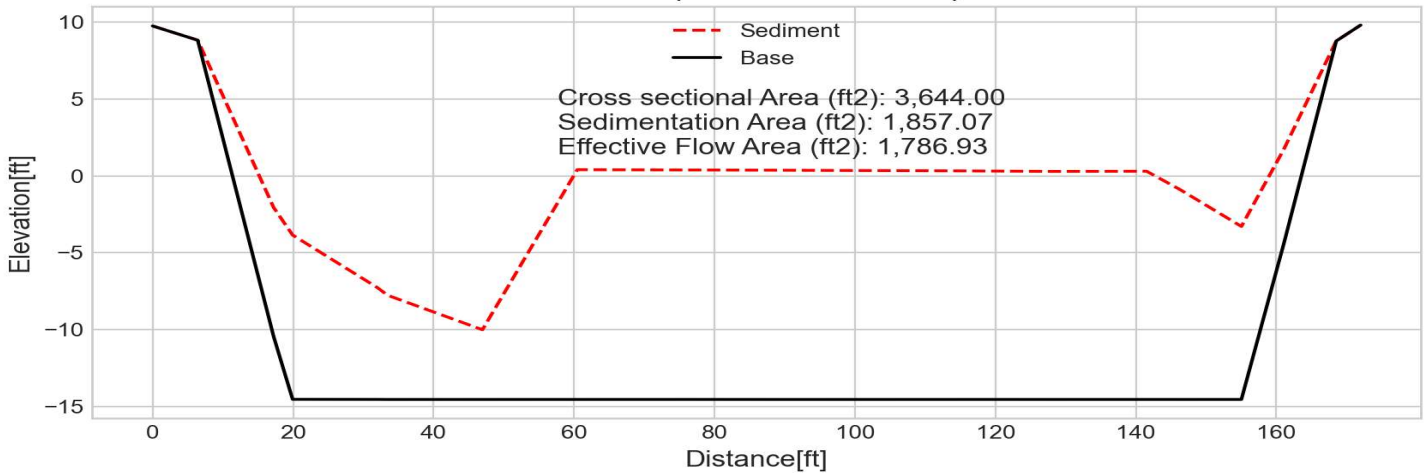
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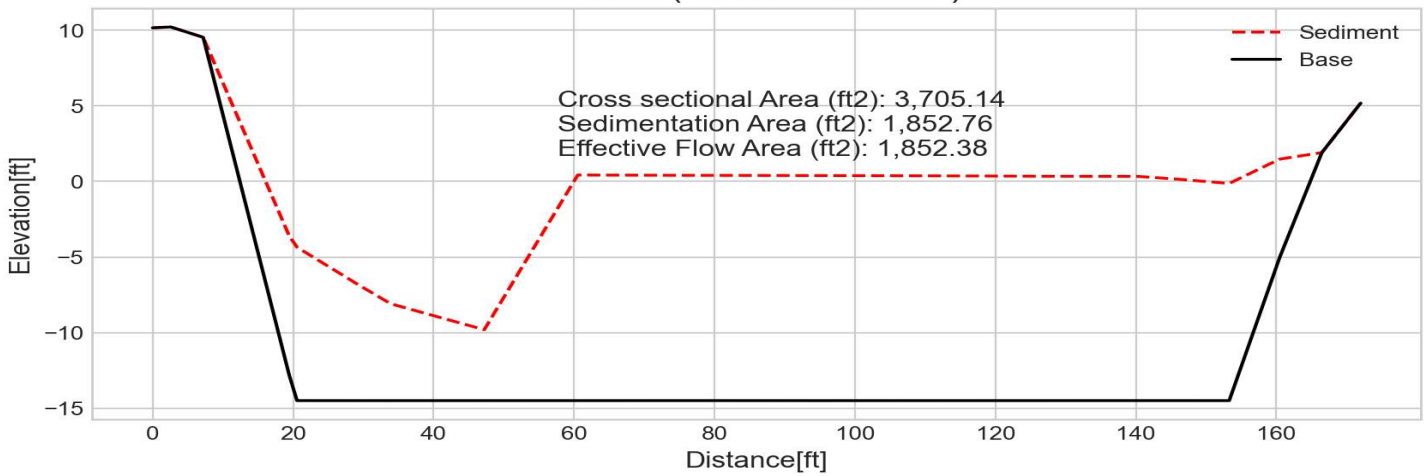
Year 4 (Station: 121+00)



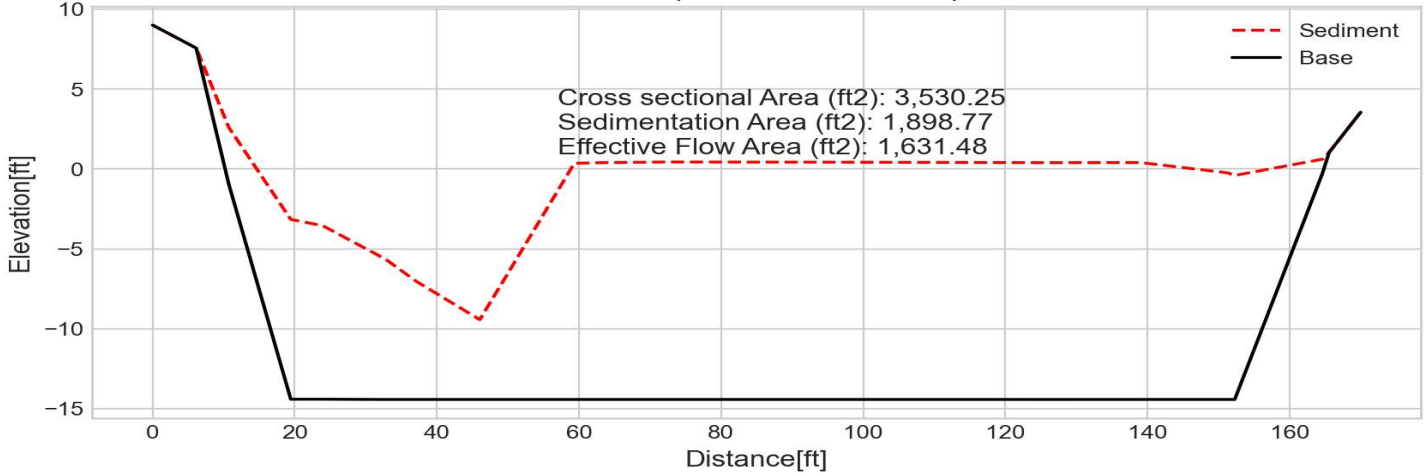
Year 4 (Station: 122+00)



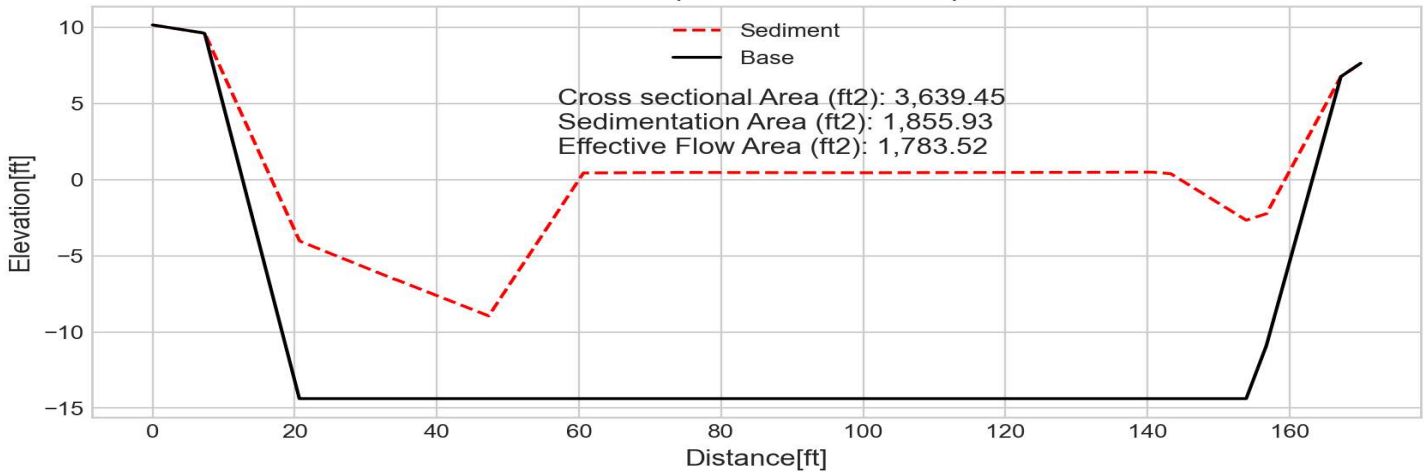
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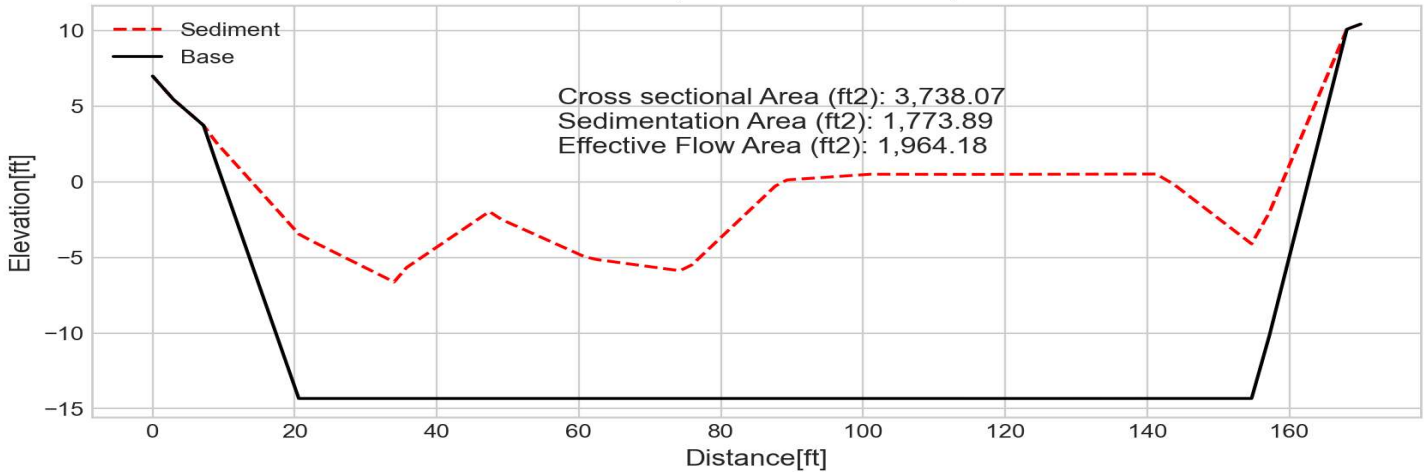
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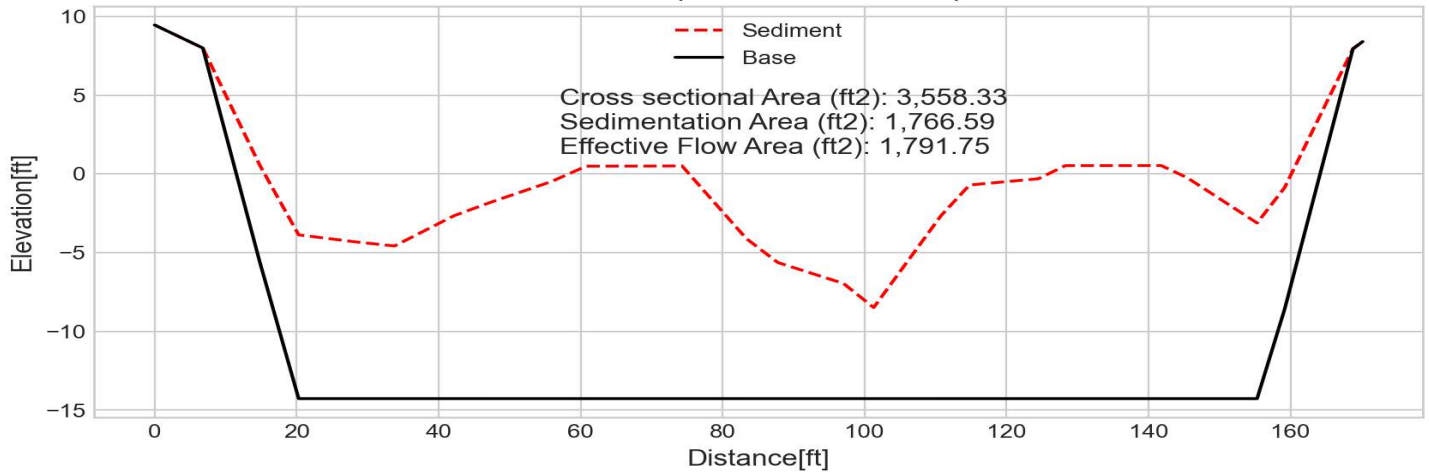
Year 4 (Station: 125+00)



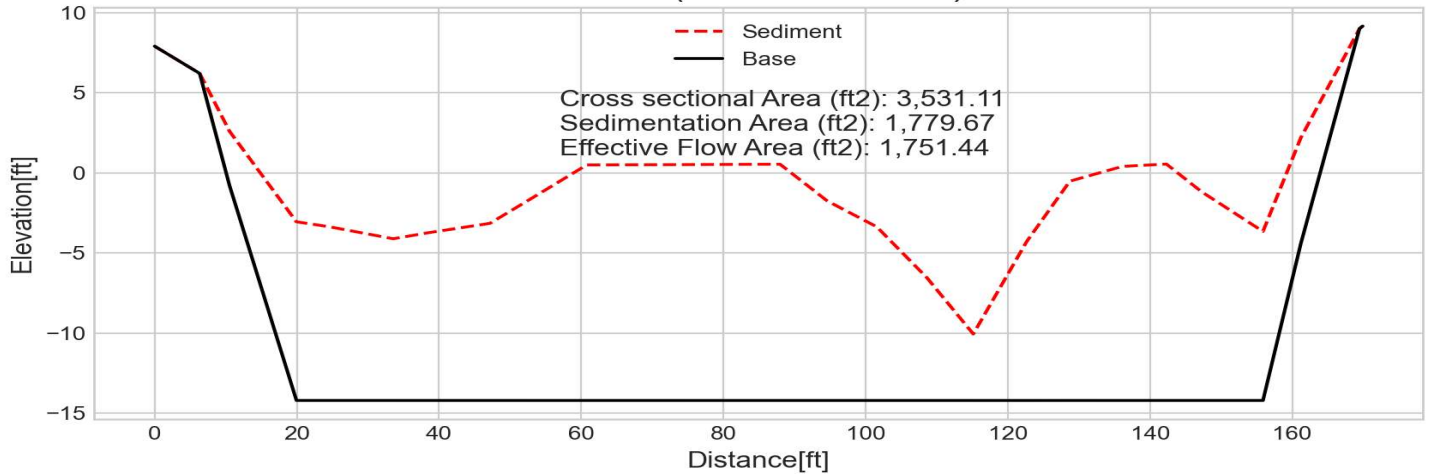
Year 4 (Station: 126+00)



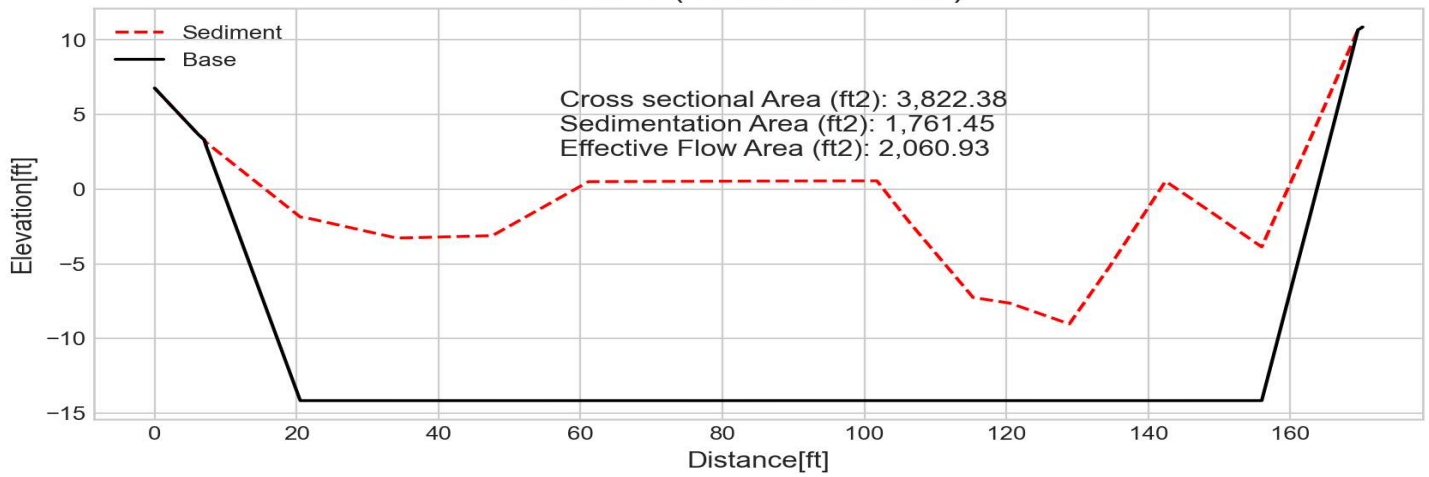
Year 4 (Station: 127+00)



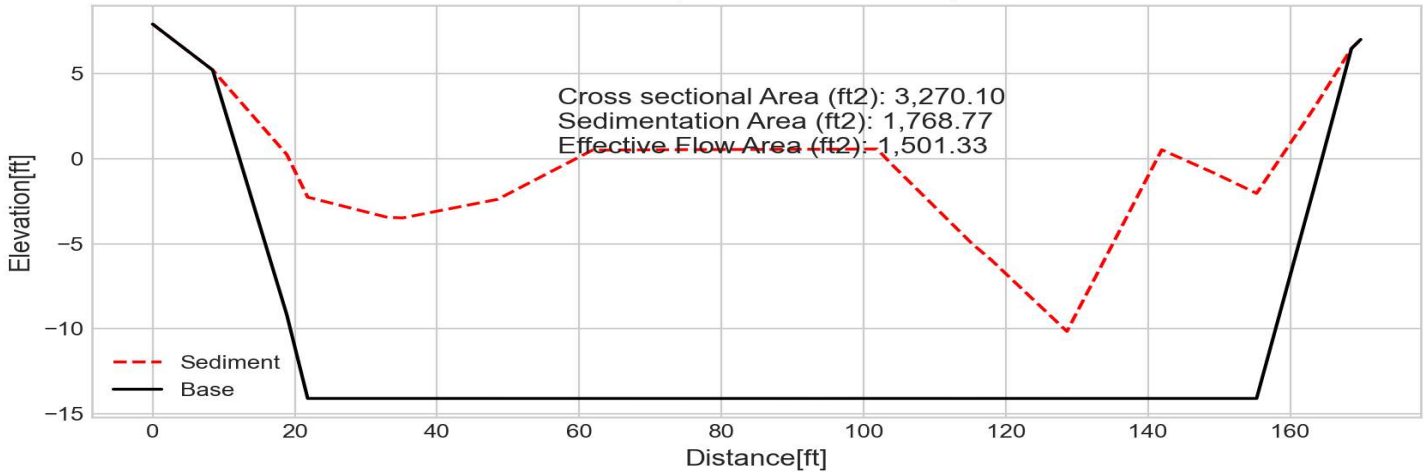
Year 4 (Station: 128+00)



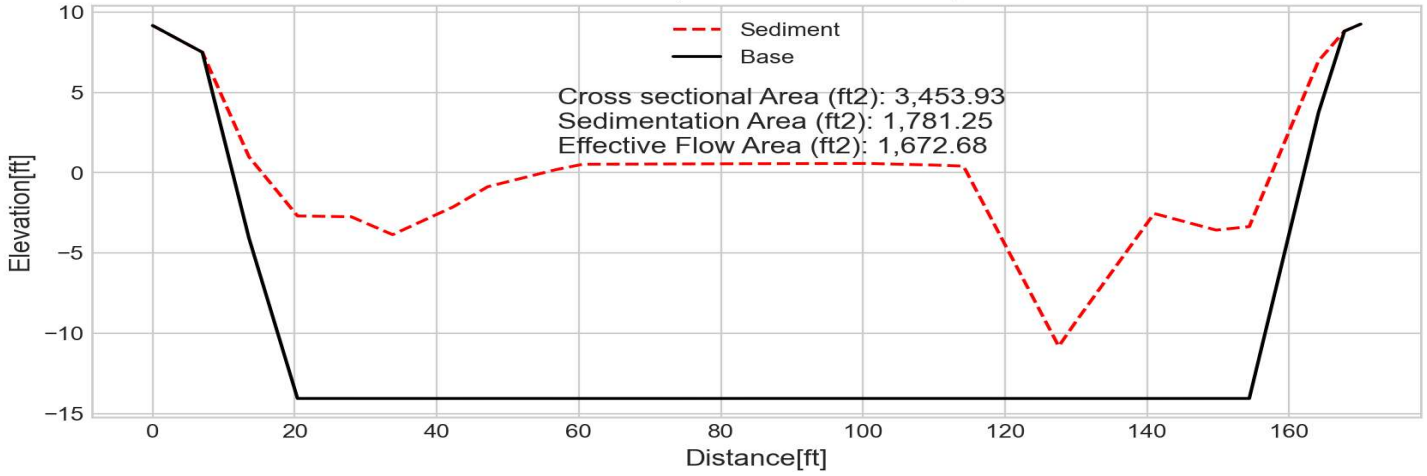
Year 4 (Station: 129+00)



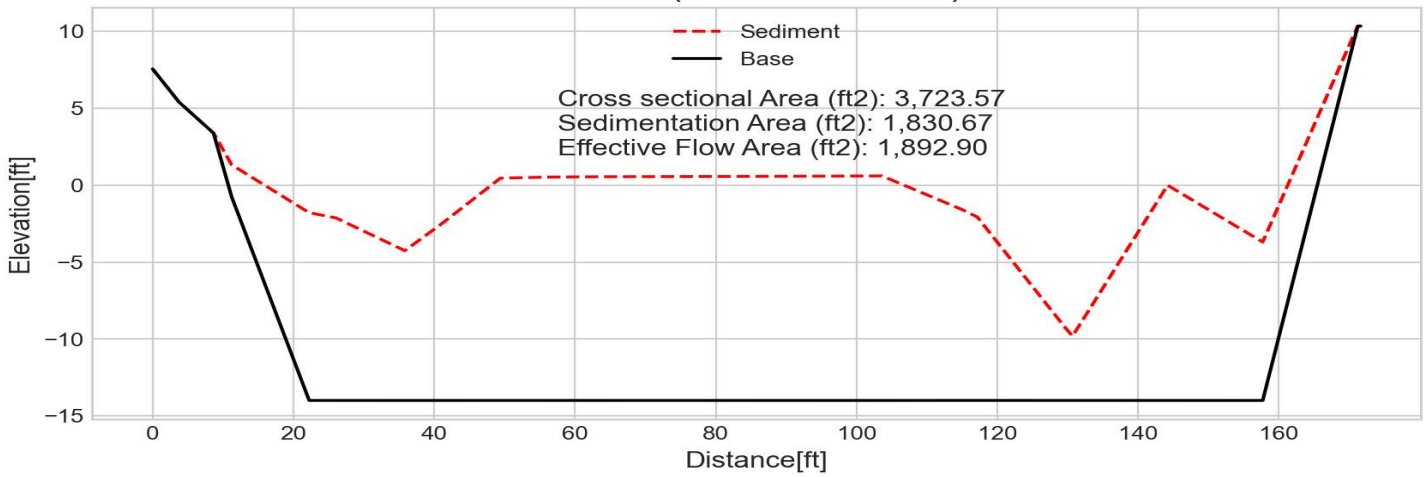
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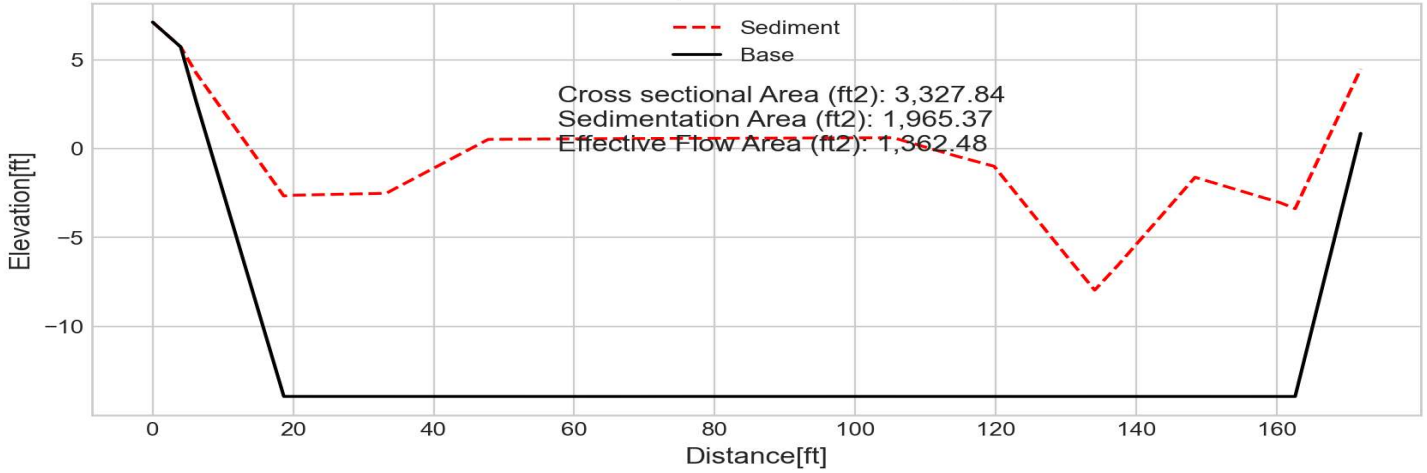
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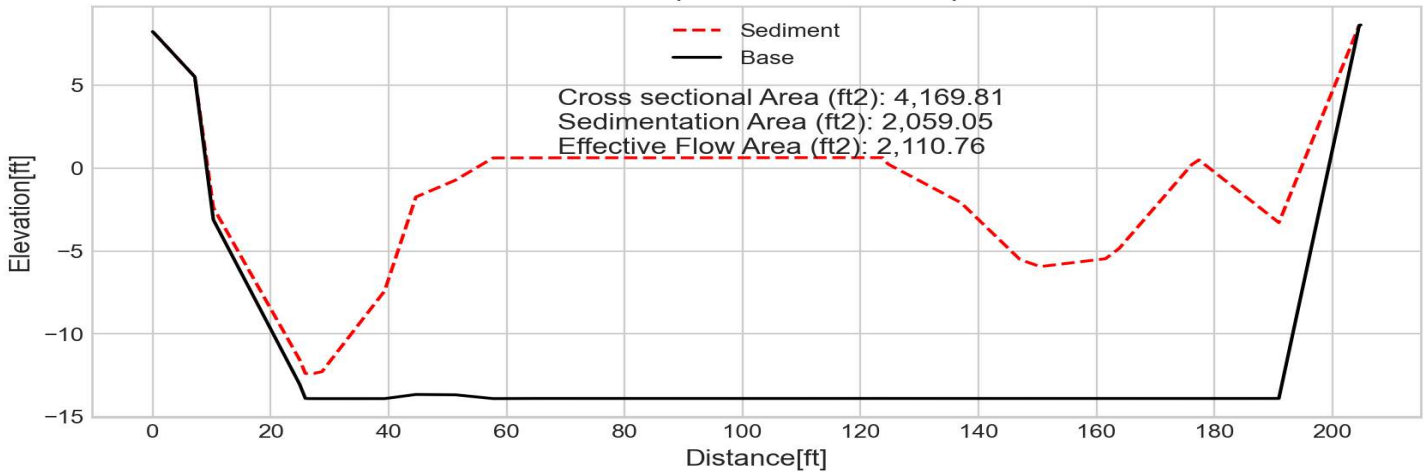
Year 4 (Station: 132+00)



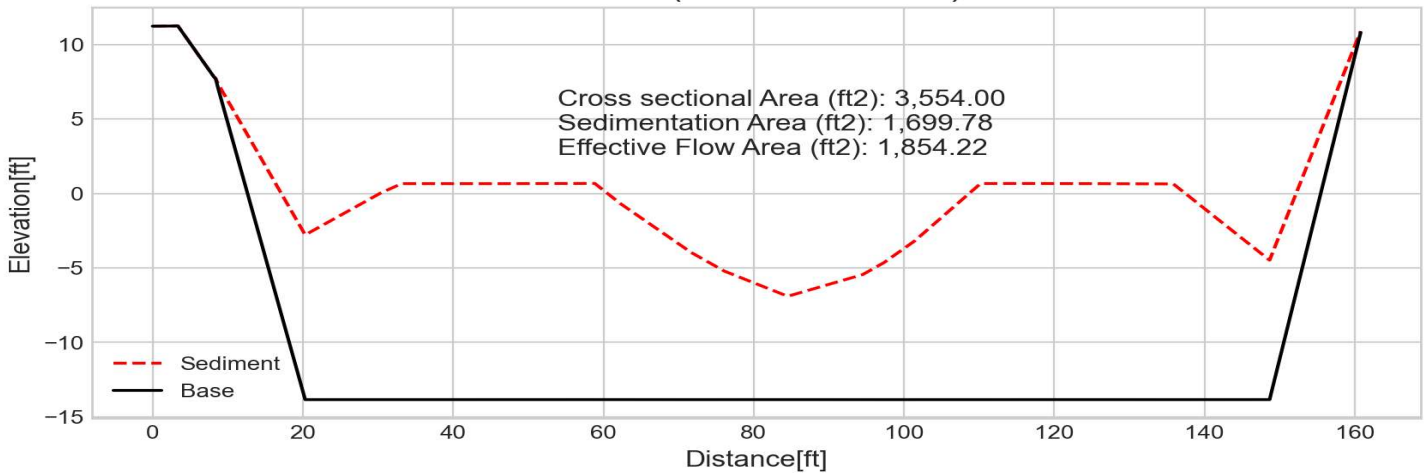
Year 4 (Station: 133+00)



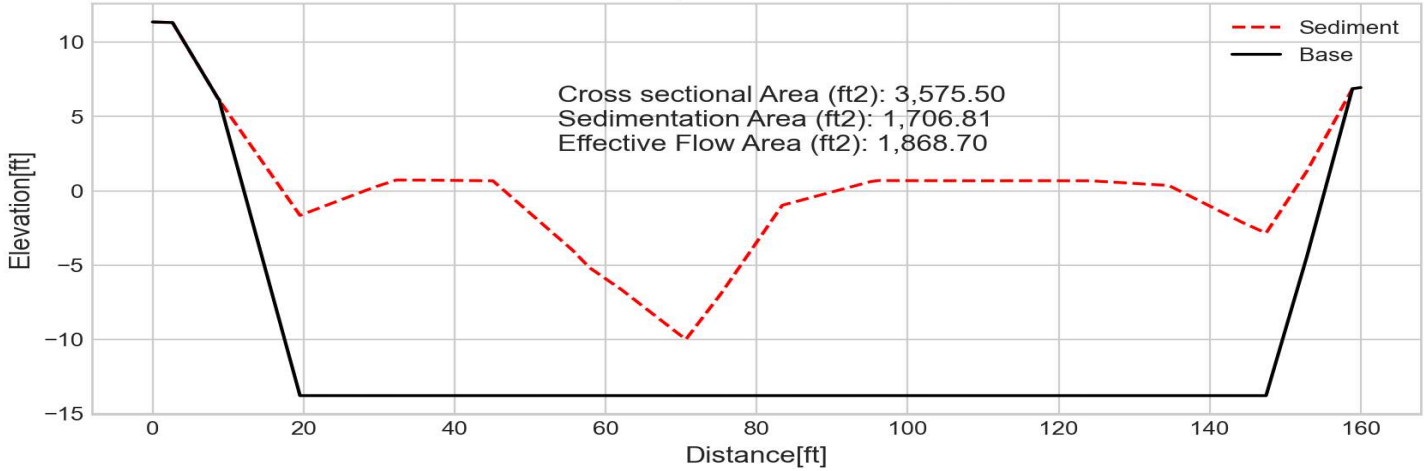
Year 4 (Station: 134+00)



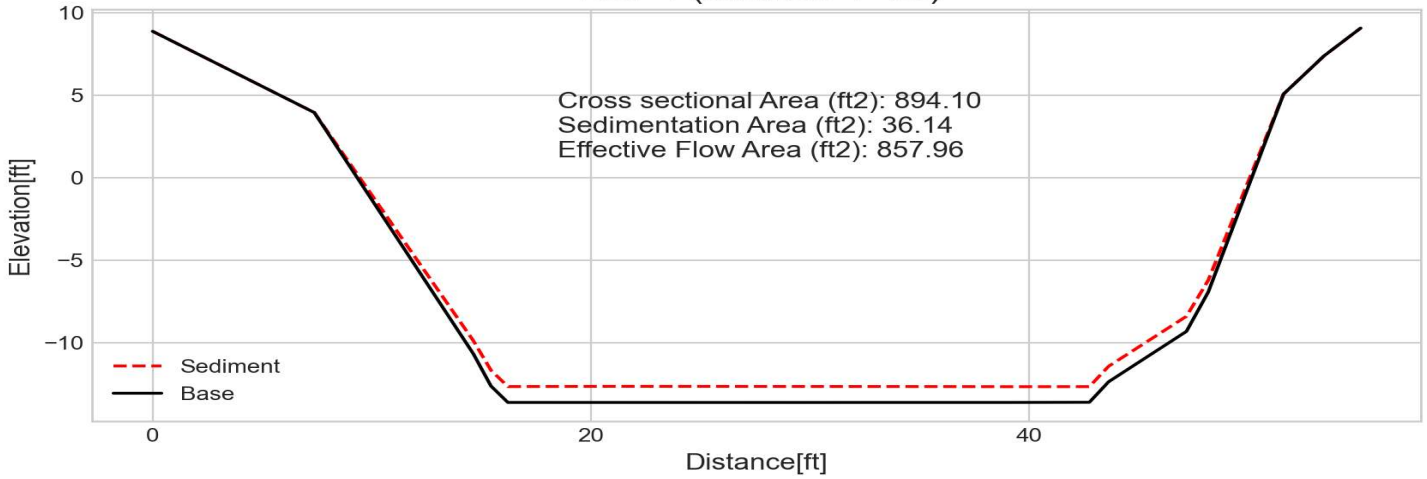
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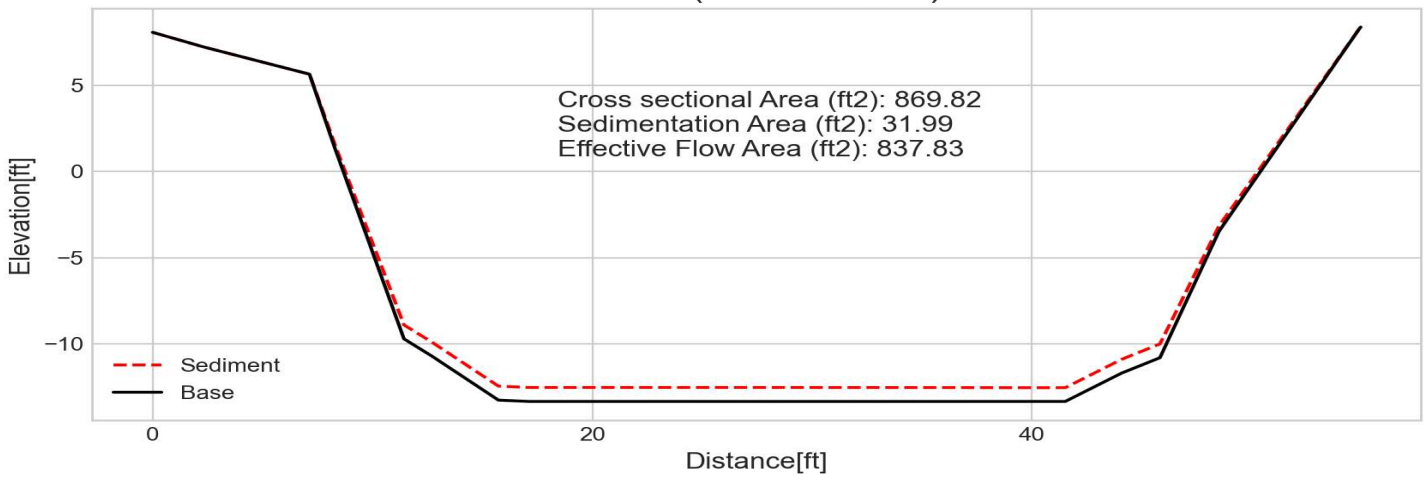
Year 4 (Station: 136+00)



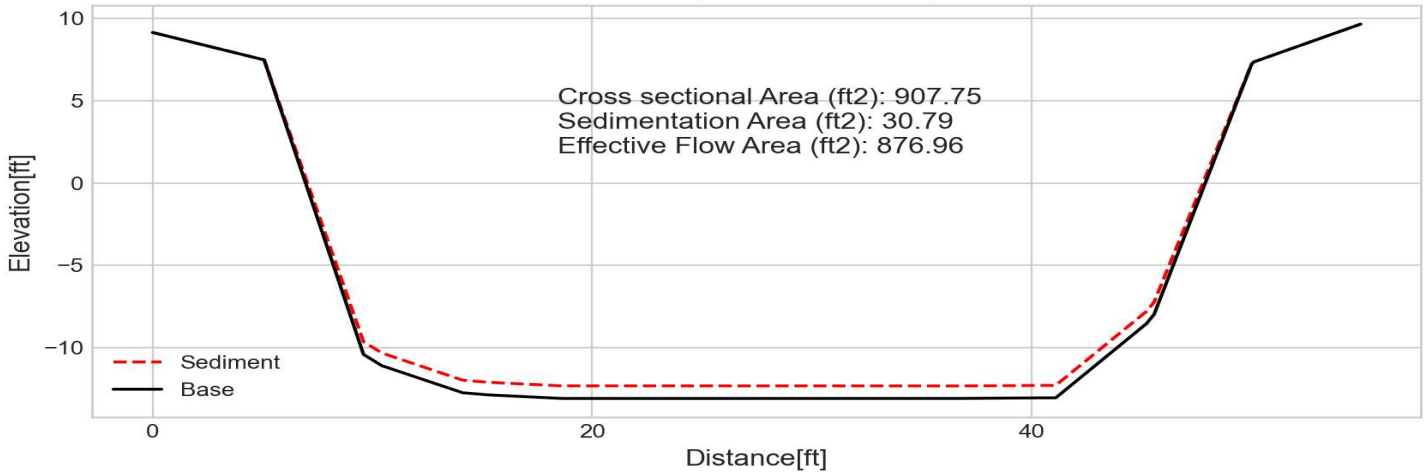
Year 4 (Station: 1+00)



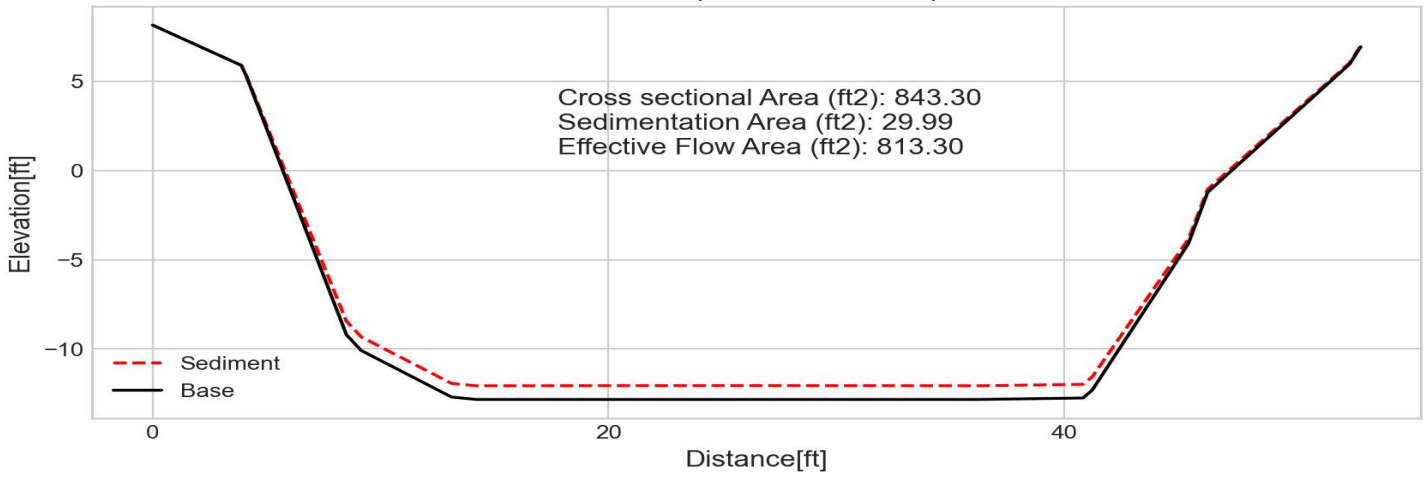
Year 4 (Station: 2+00)



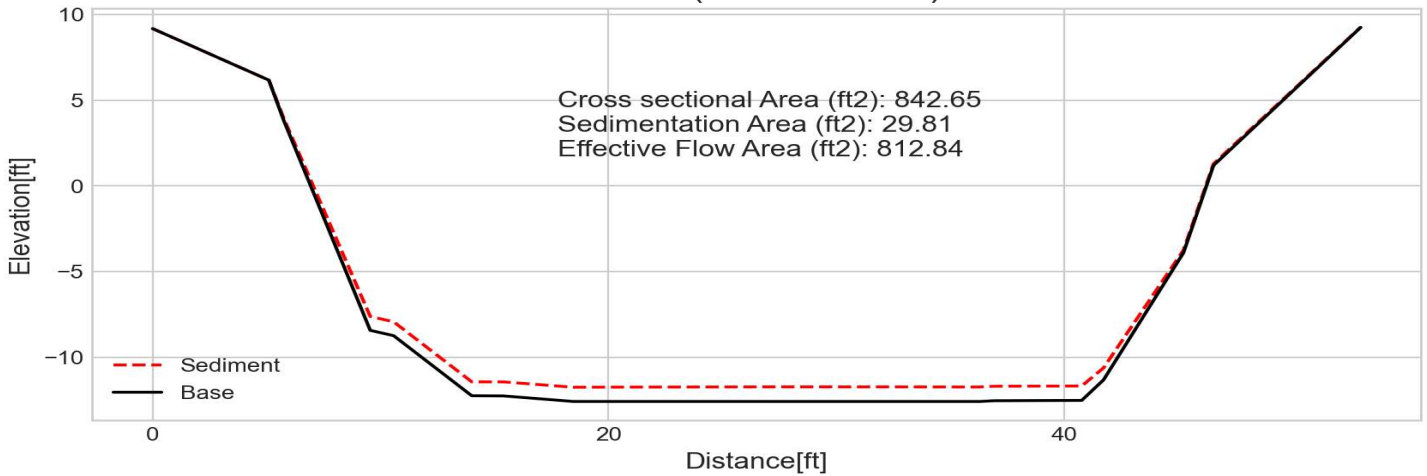
Year 4 (Station: 3+00)



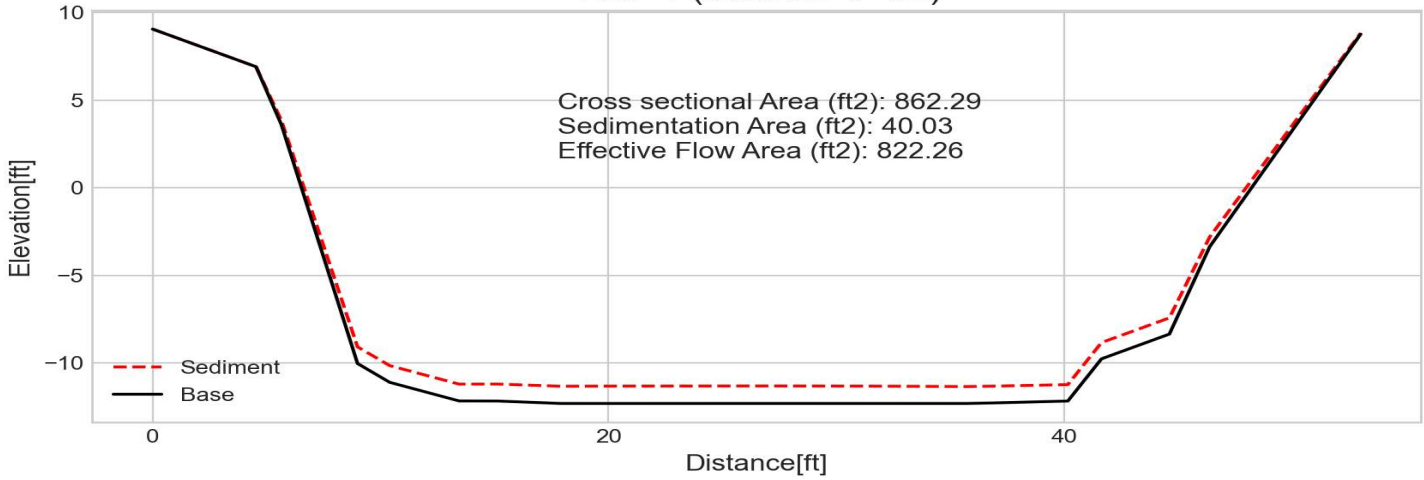
Year 4 (Station: 4+00)



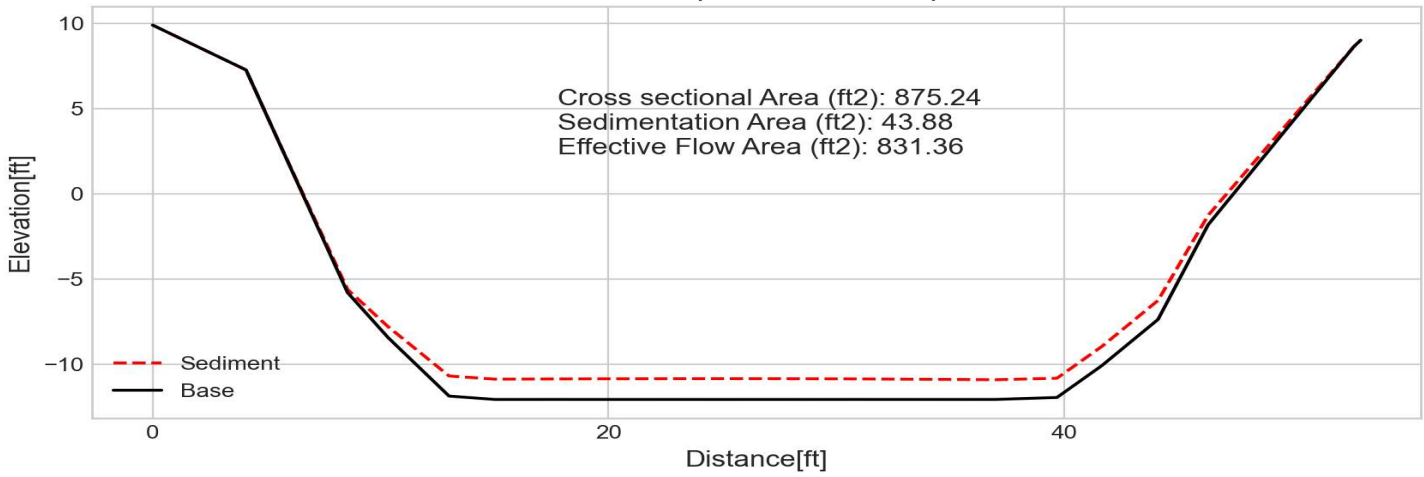
Year 4 (Station: 5+00)



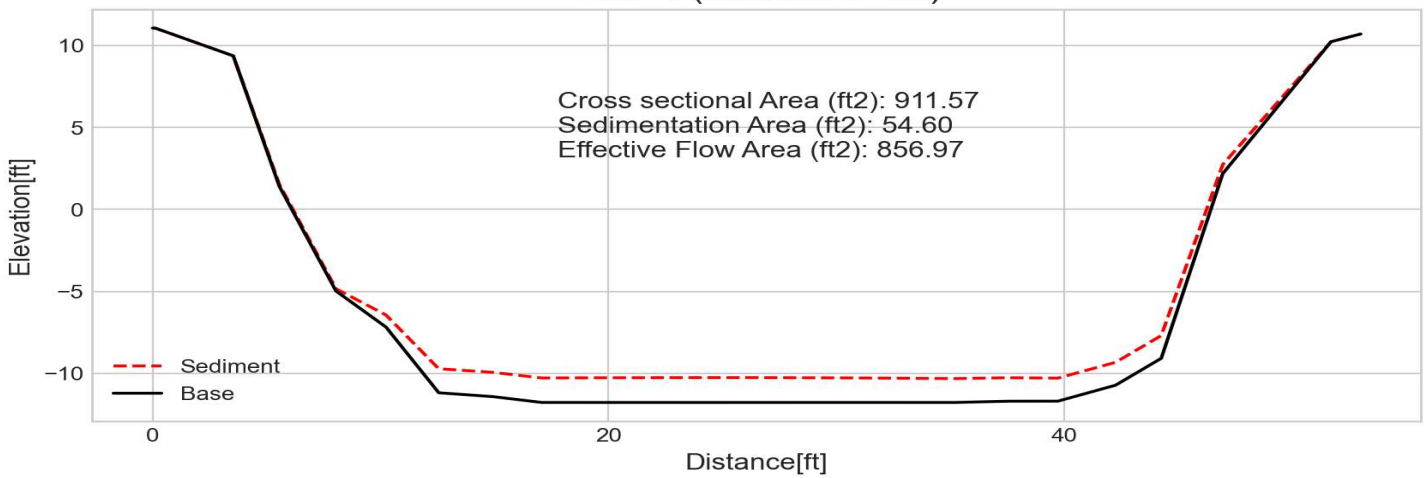
Year 4 (Station: 6+00)



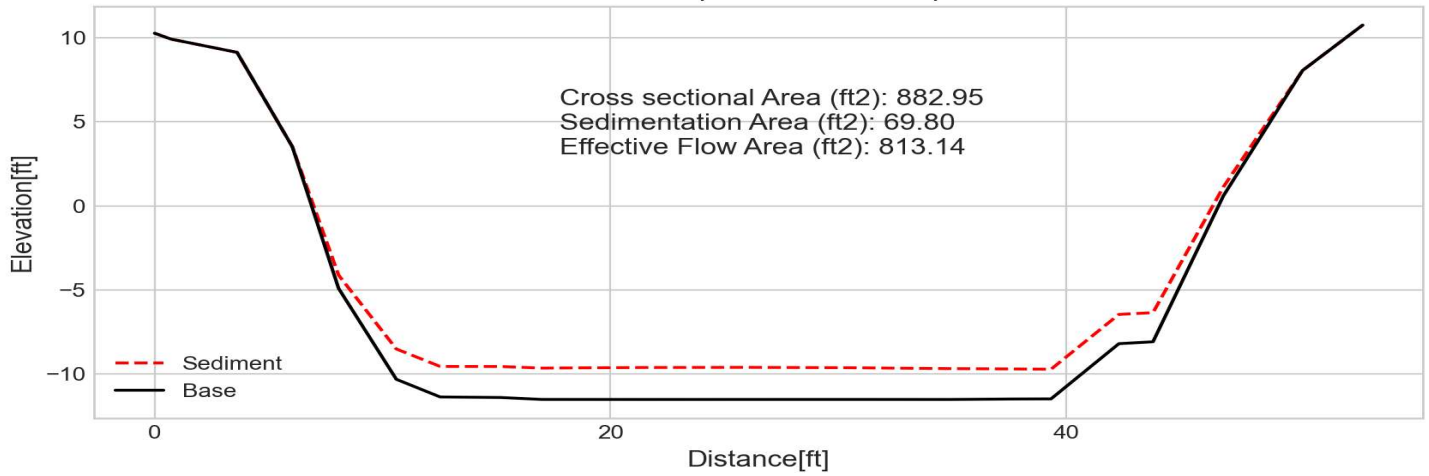
Year 4 (Station: 7+00)



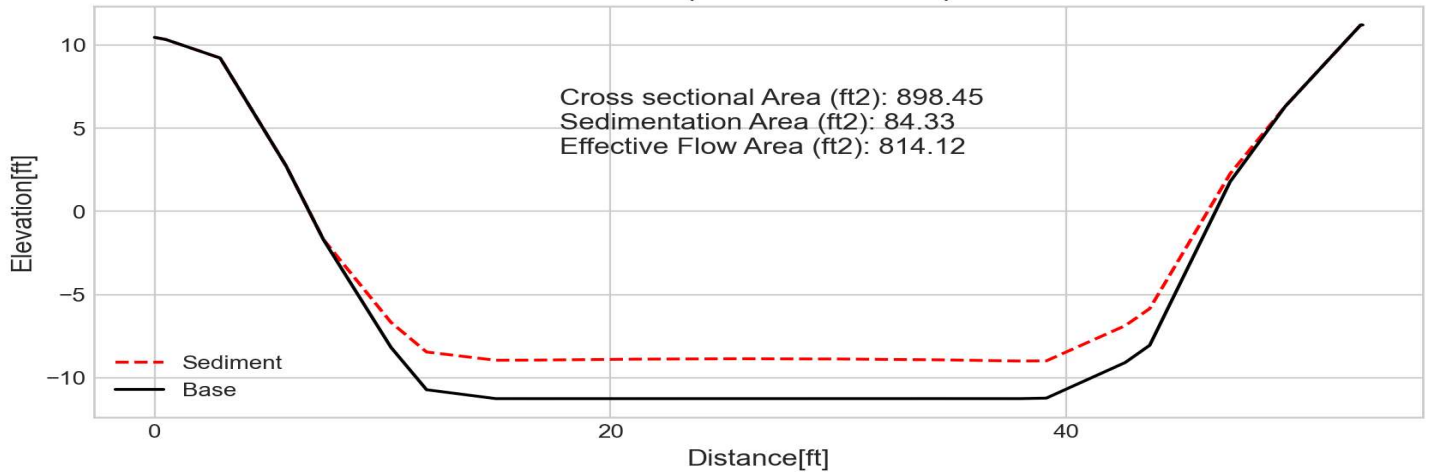
Year 4 (Station: 8+00)



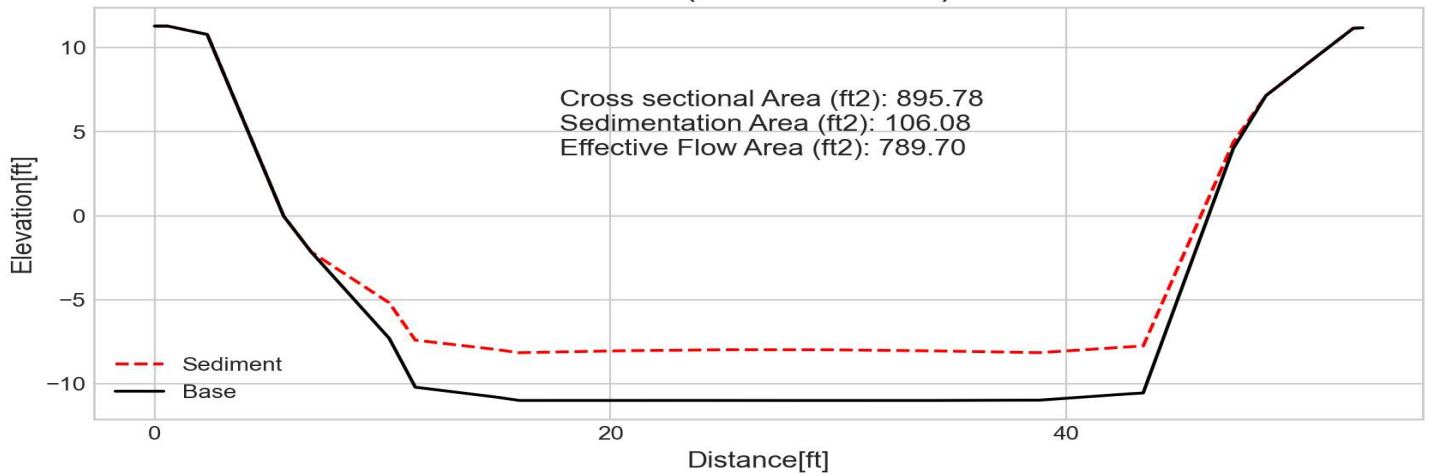
Year 4 (Station: 9+00)



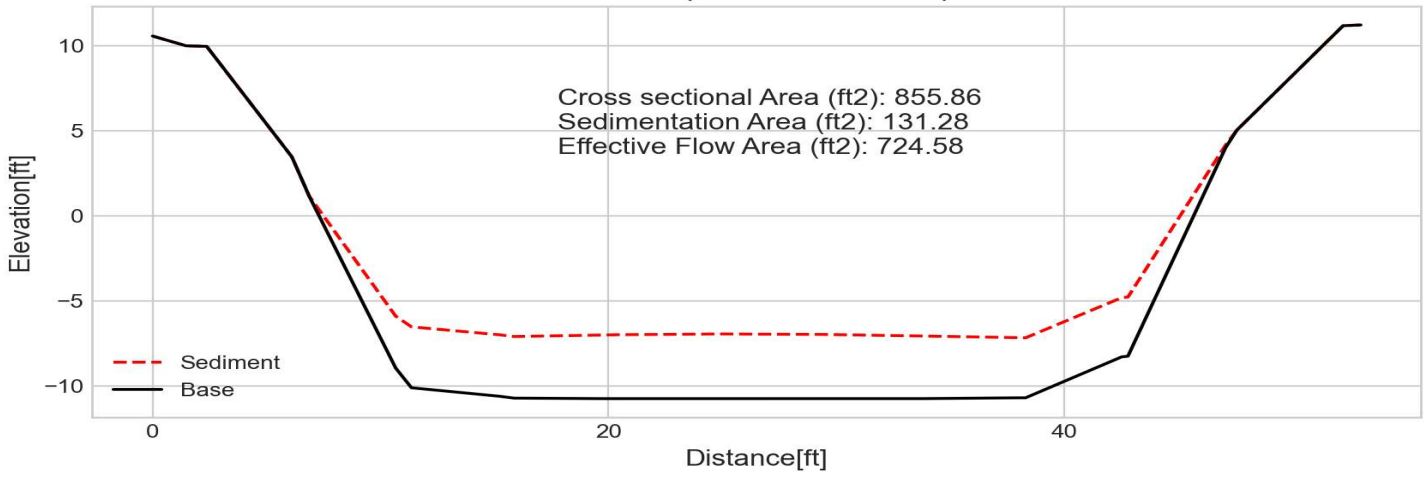
Year 4 (Station: 10+00)



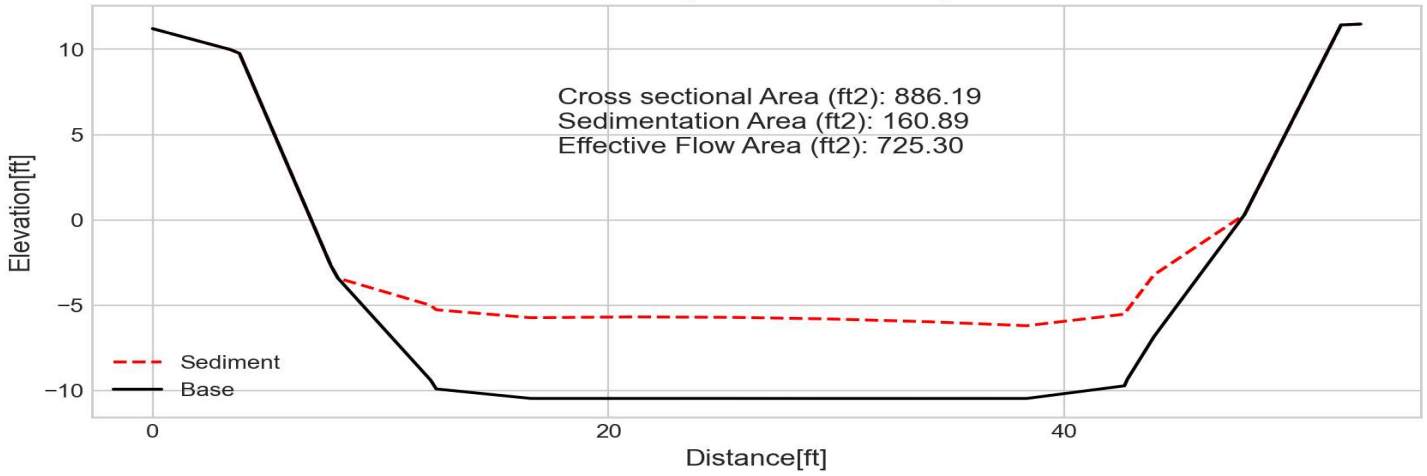
Year 4 (Station: 11+00)



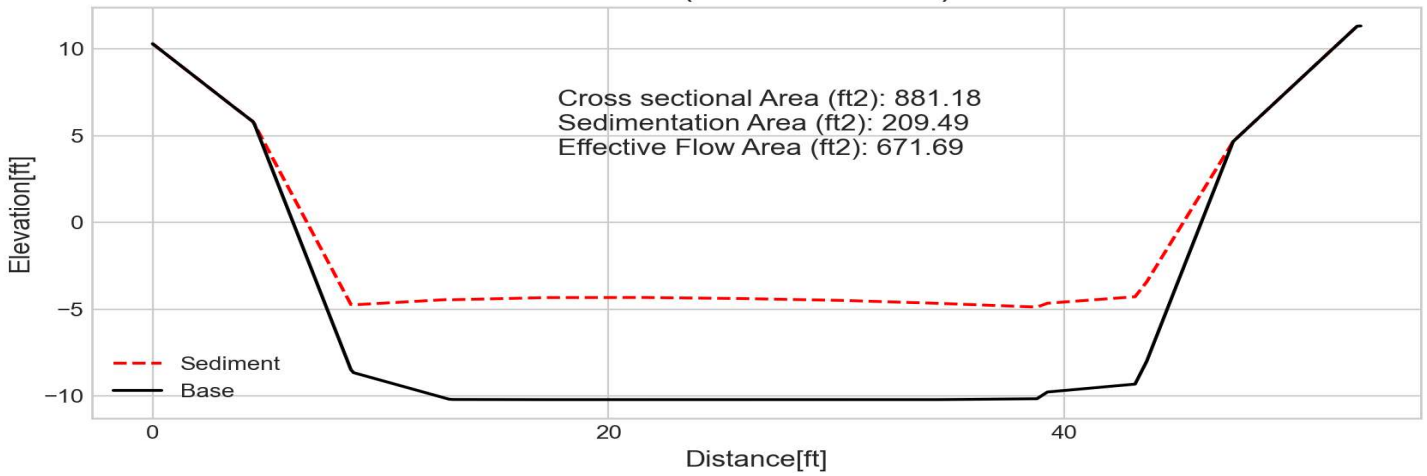
Year 4 (Station: 12+00)



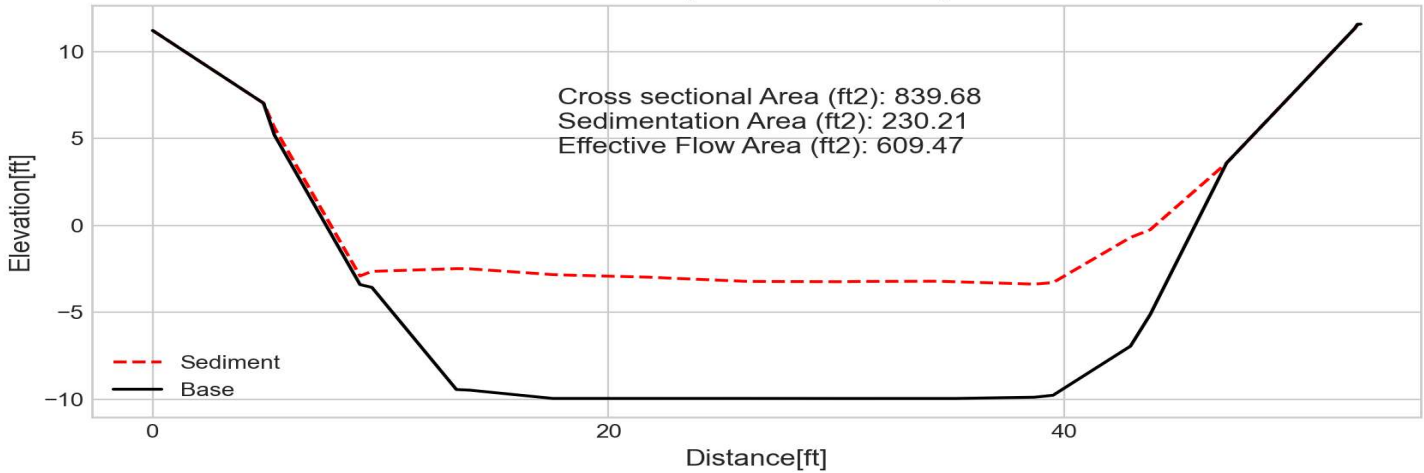
Year 4 (Station: 13+00)



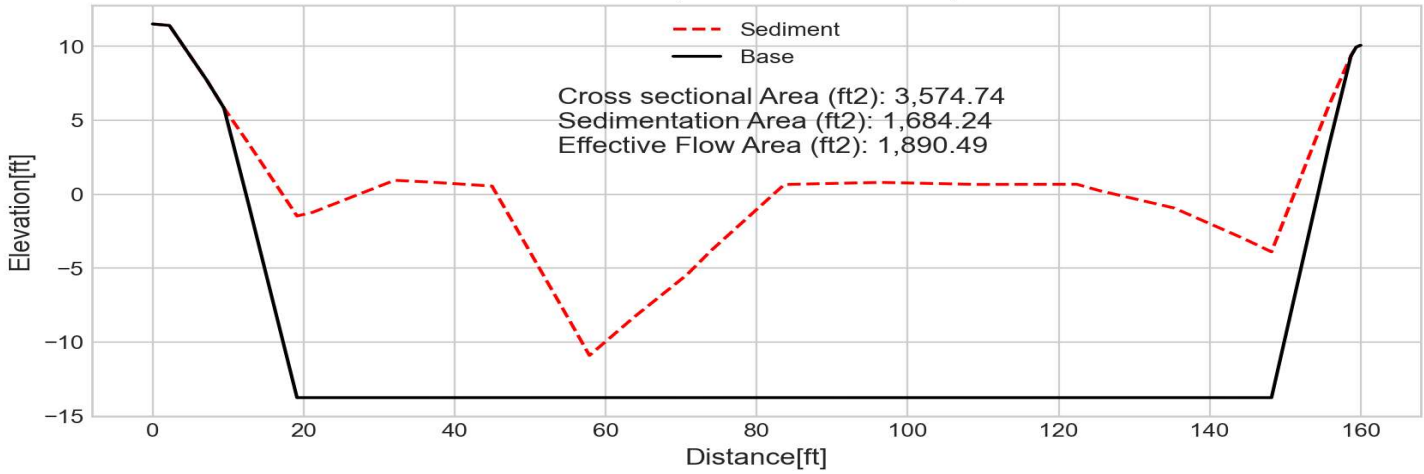
Year 4 (Station: 14+00)



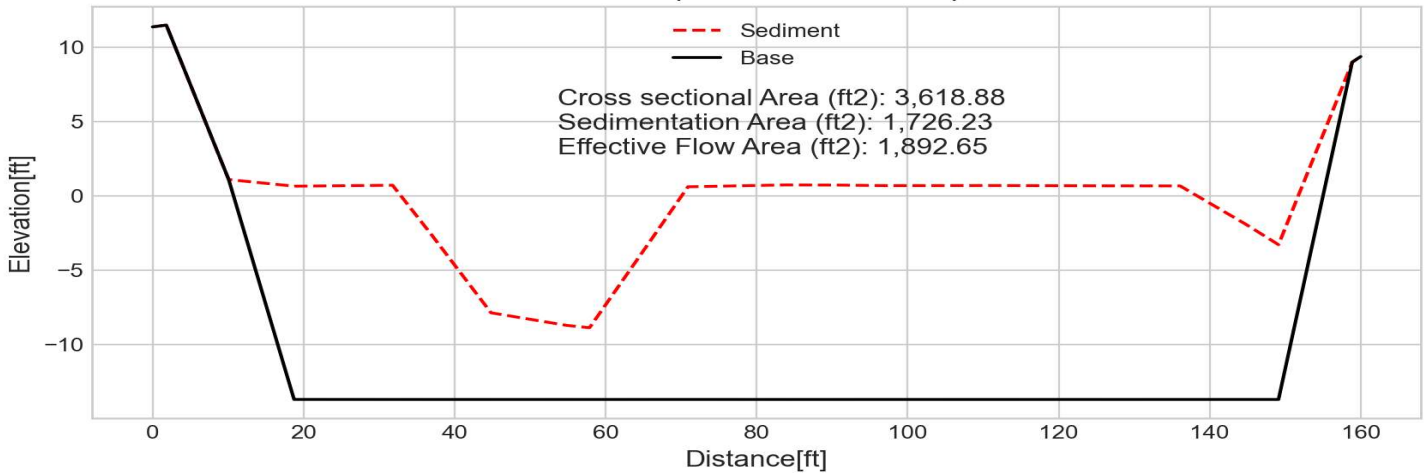
Year 4 (Station: 15+00)



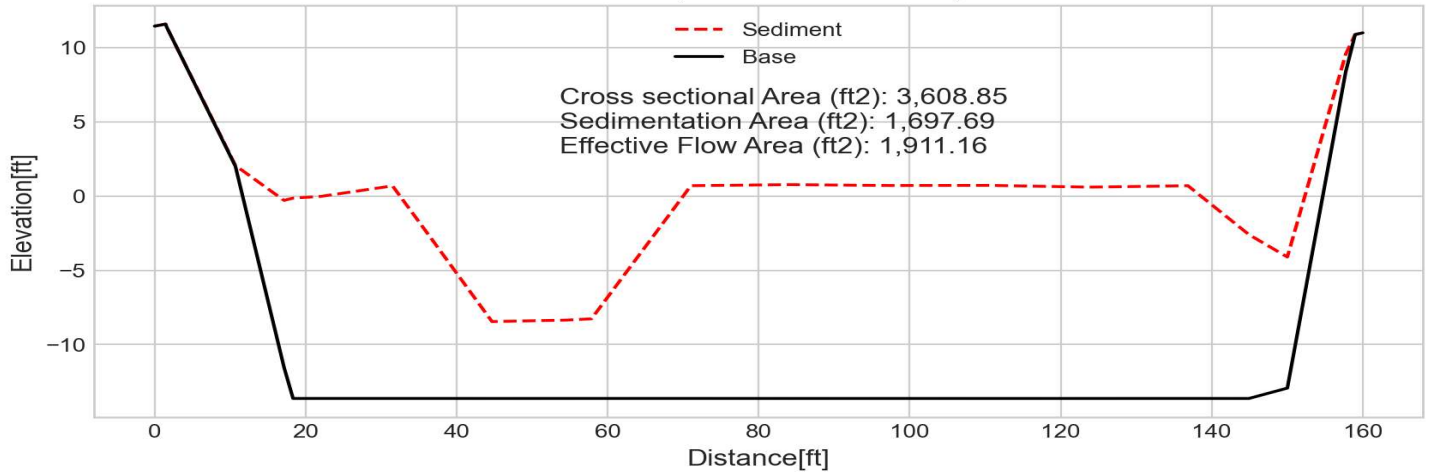
Year 4 (Station: 137+00)



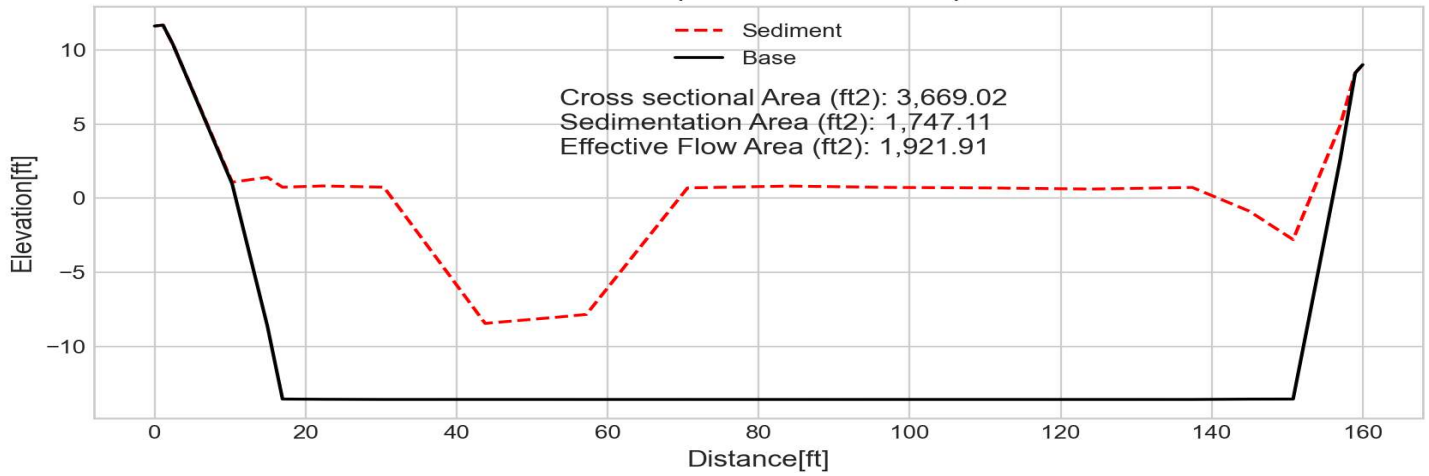
Year 4 (Station: 138+00)



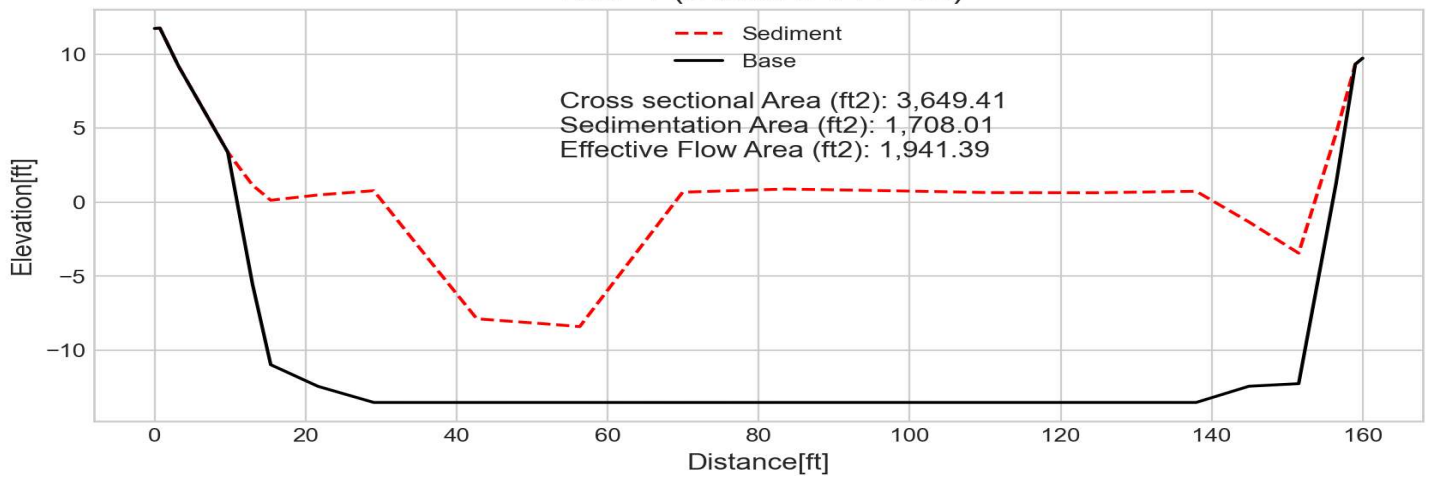
Year 4 (Station: 139+00)



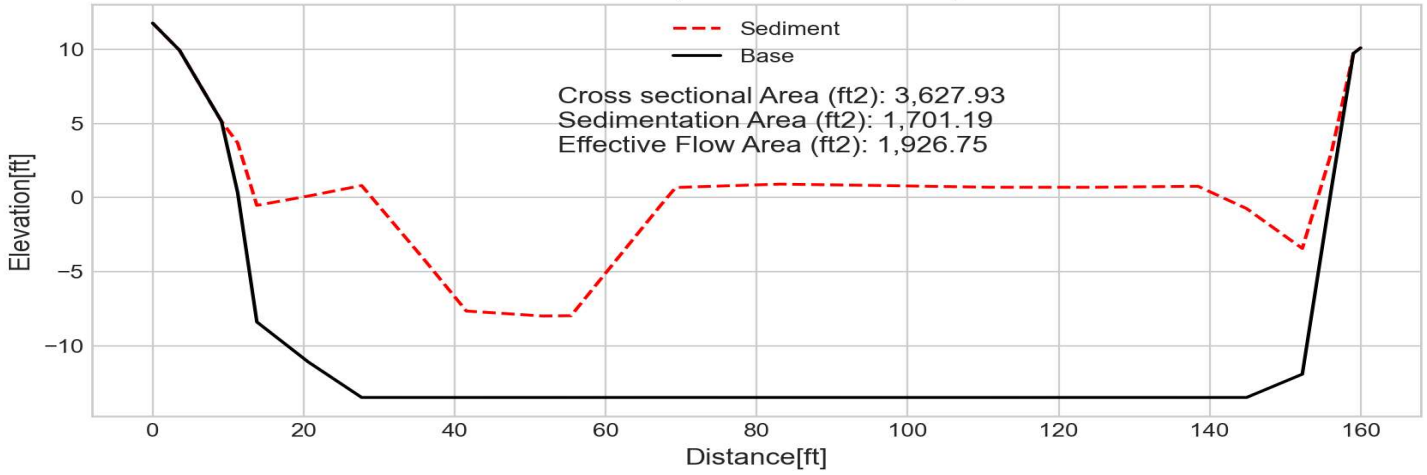
Year 4 (Station: 140+00)



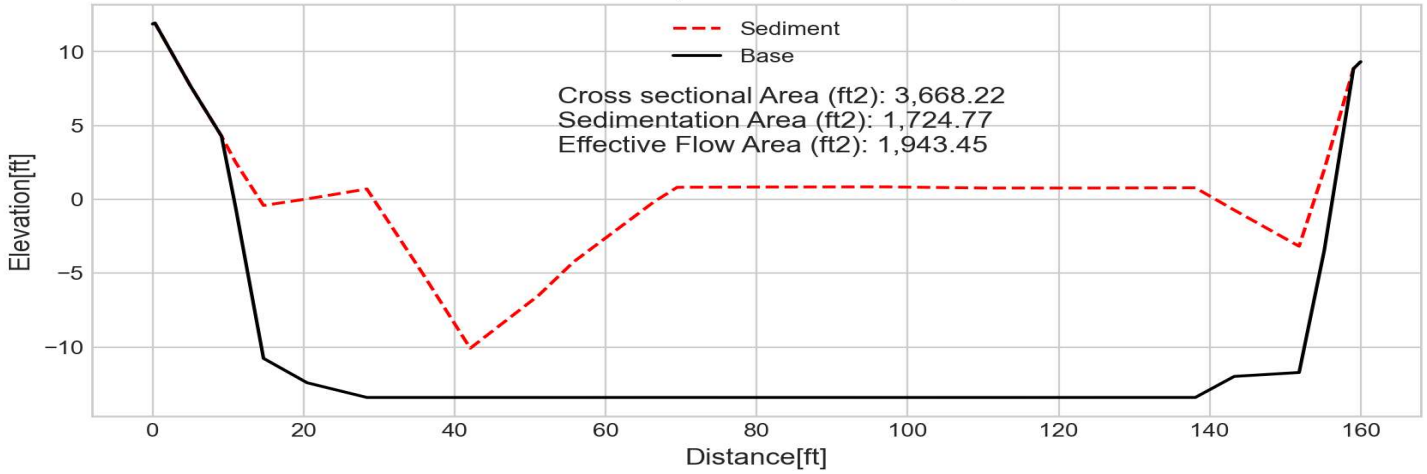
Year 4 (Station: 141+00)



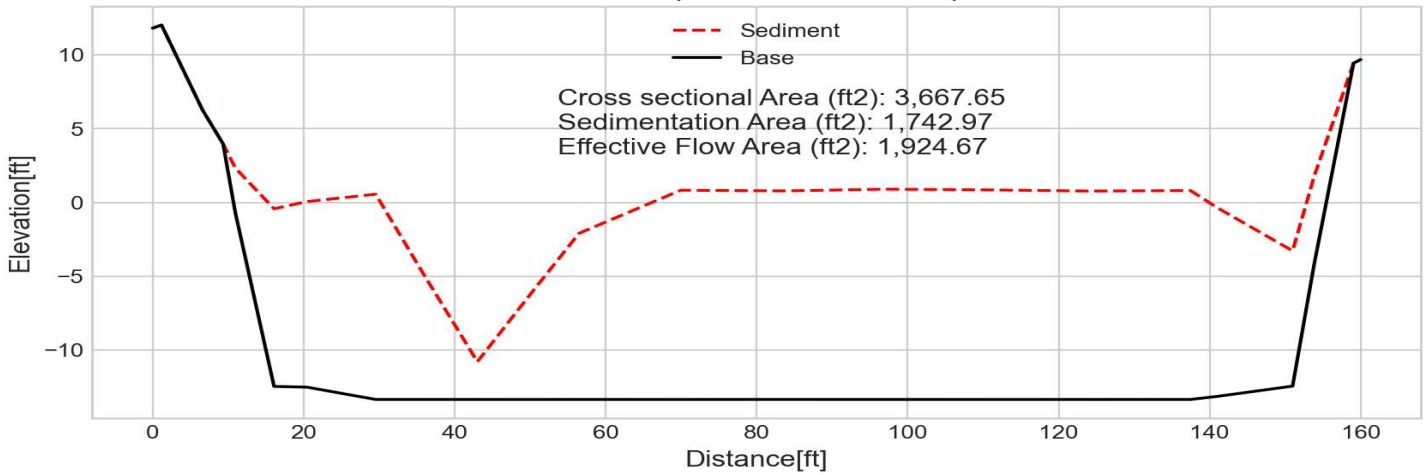
Year 4 (Station: 142+00)



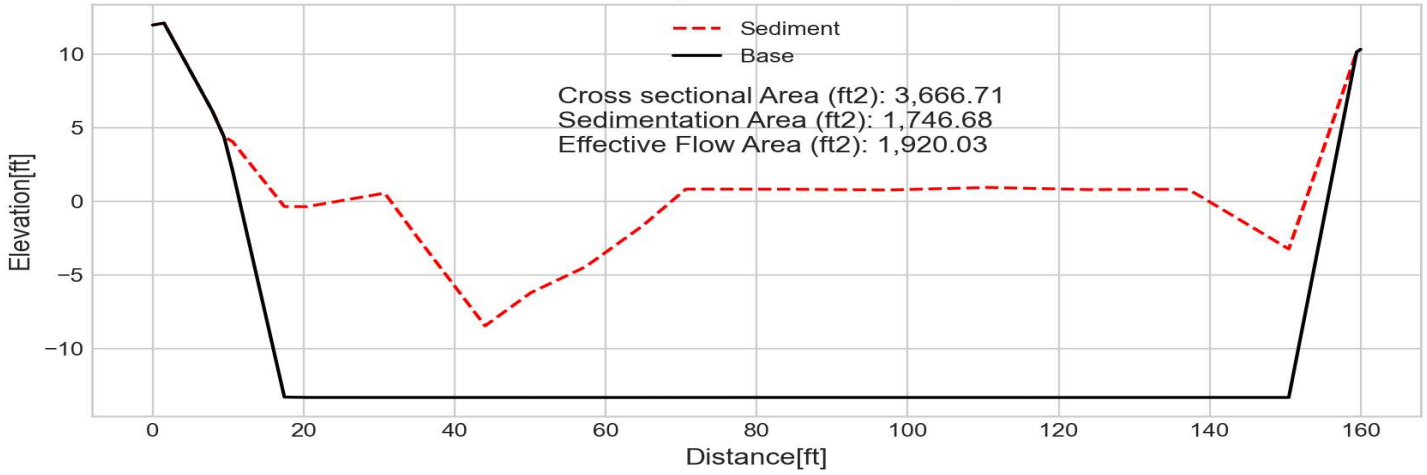
Year 4 (Station: 143+00)



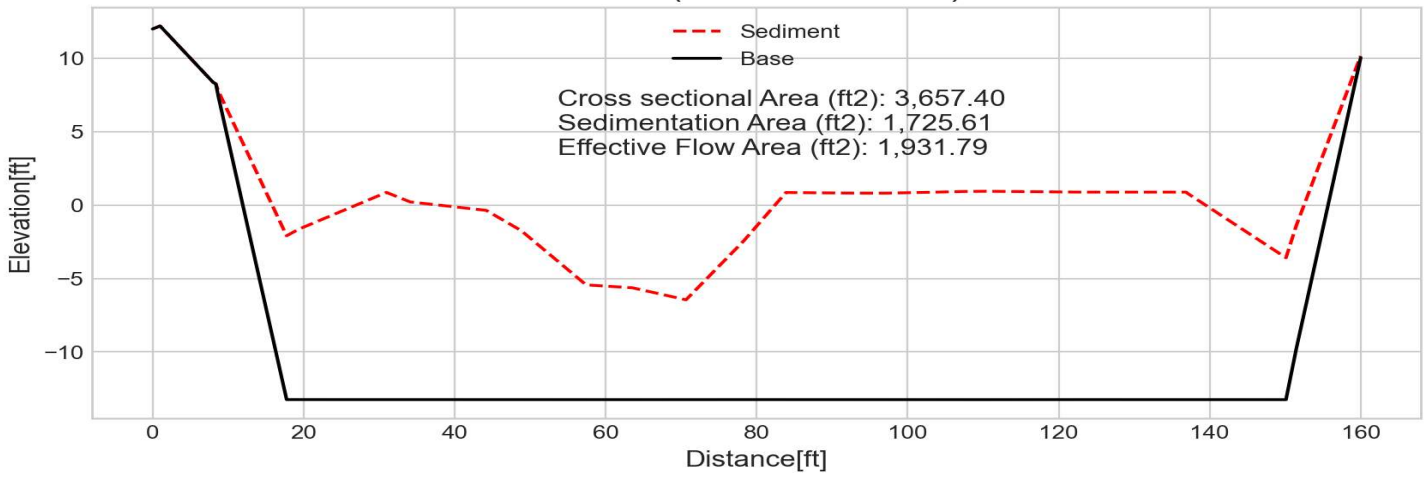
Year 4 (Station: 144+00)



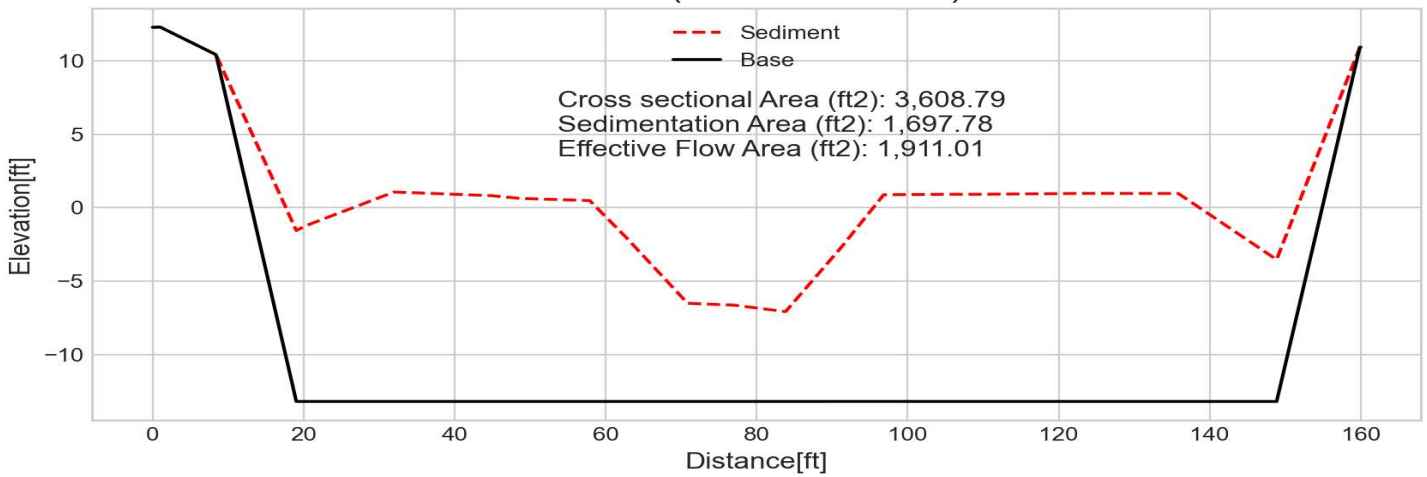
Year 4 (Station: 145+00)



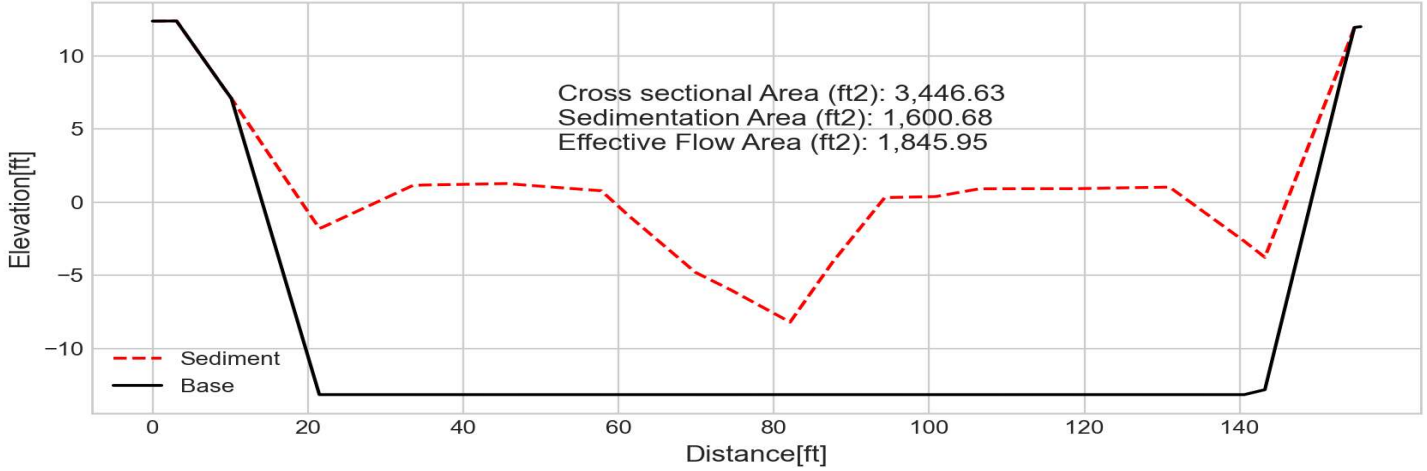
Year 4 (Station: 146+00)



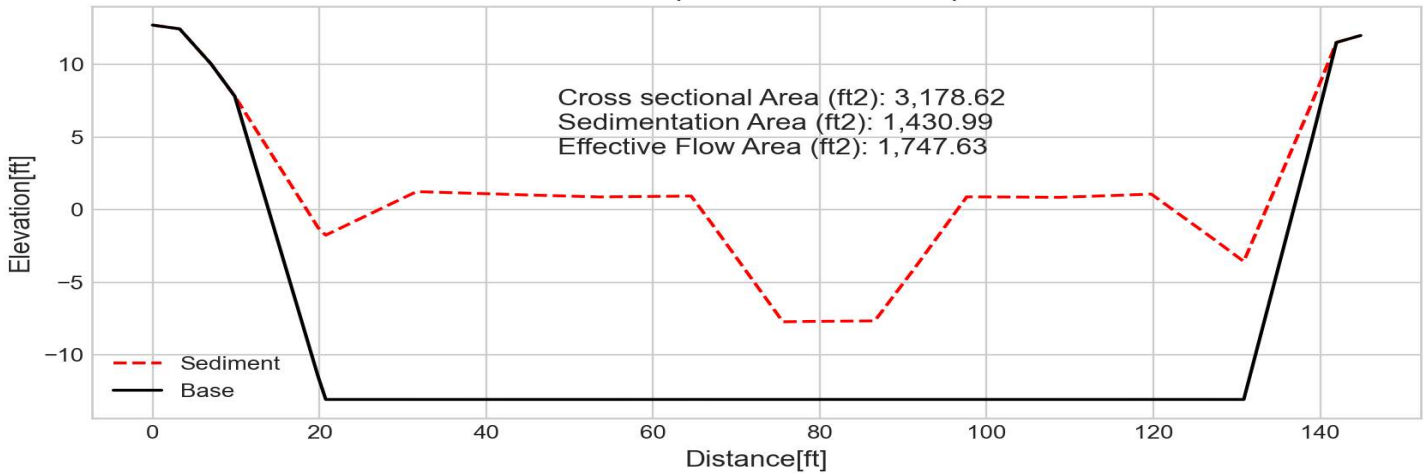
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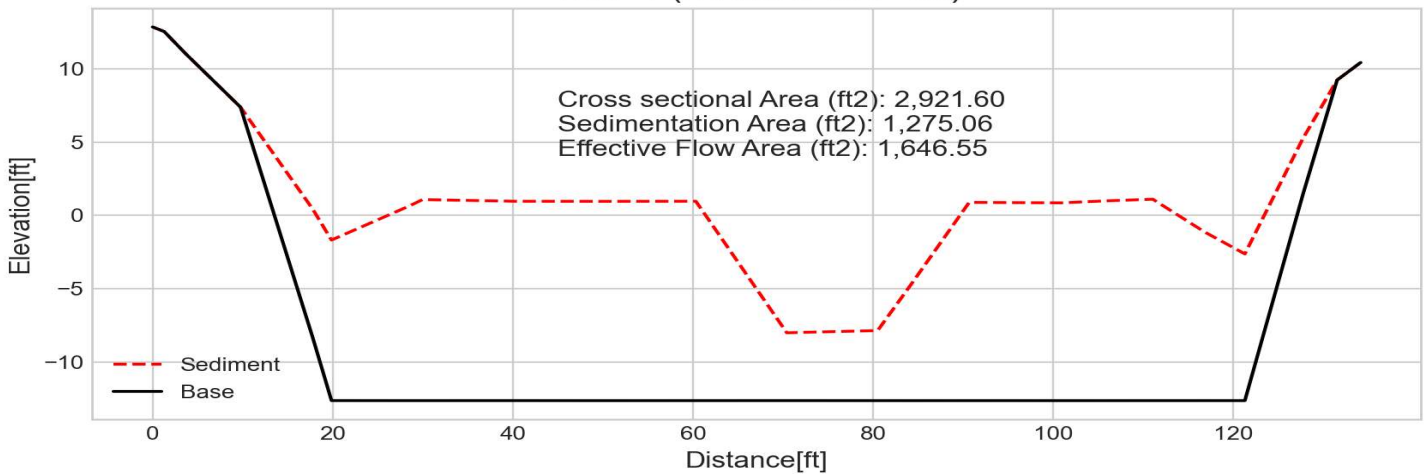
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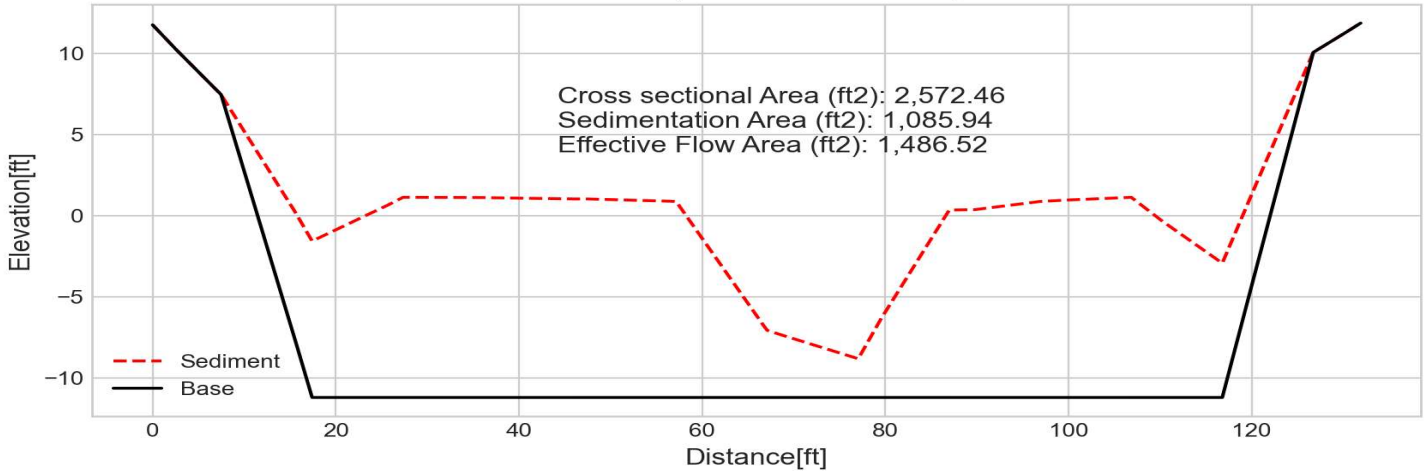
Year 4 (Station: 149+00)



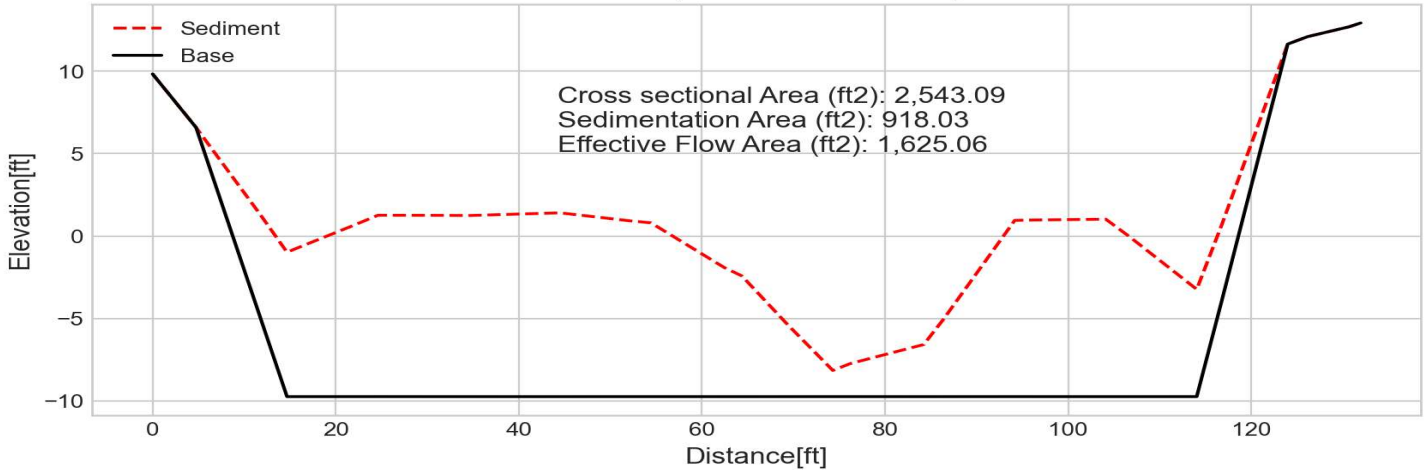
Year 4 (Station: 150+00)



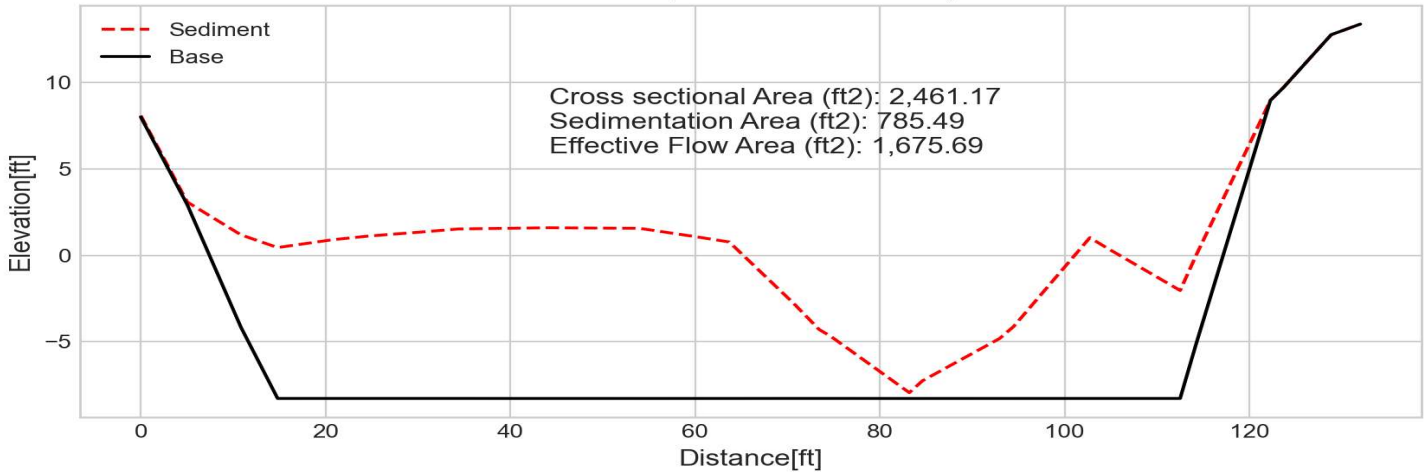
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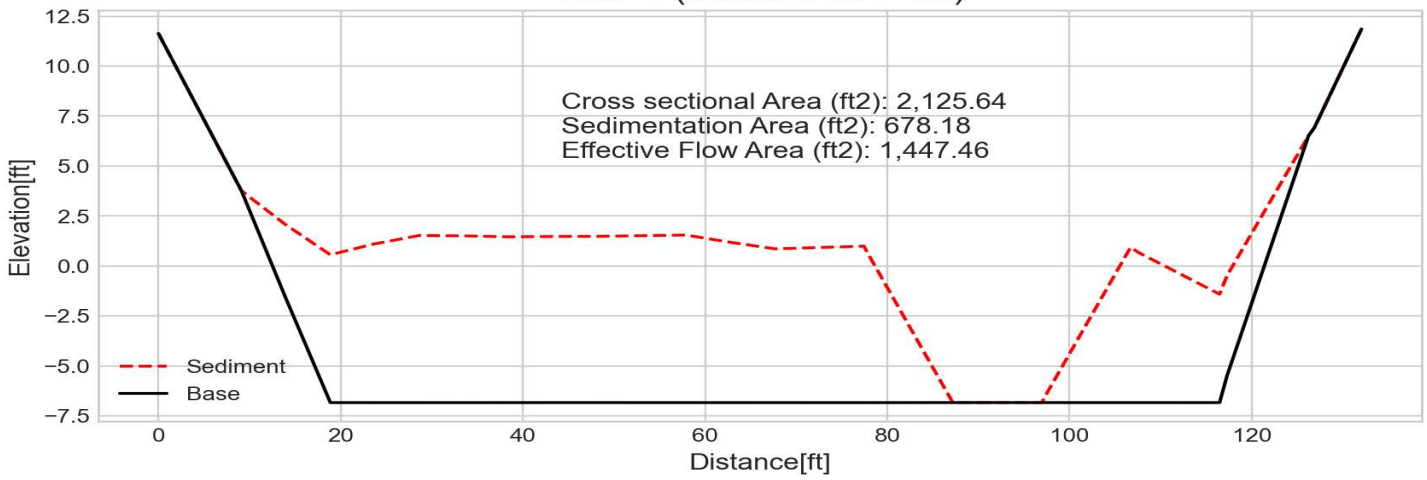
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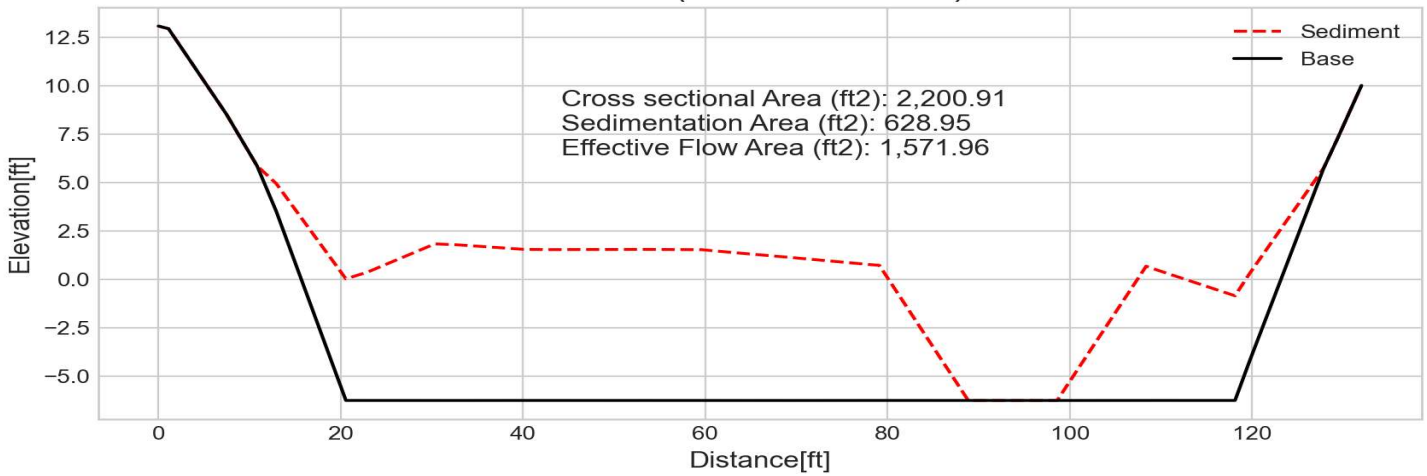
Year 4 (Station: 153+00)



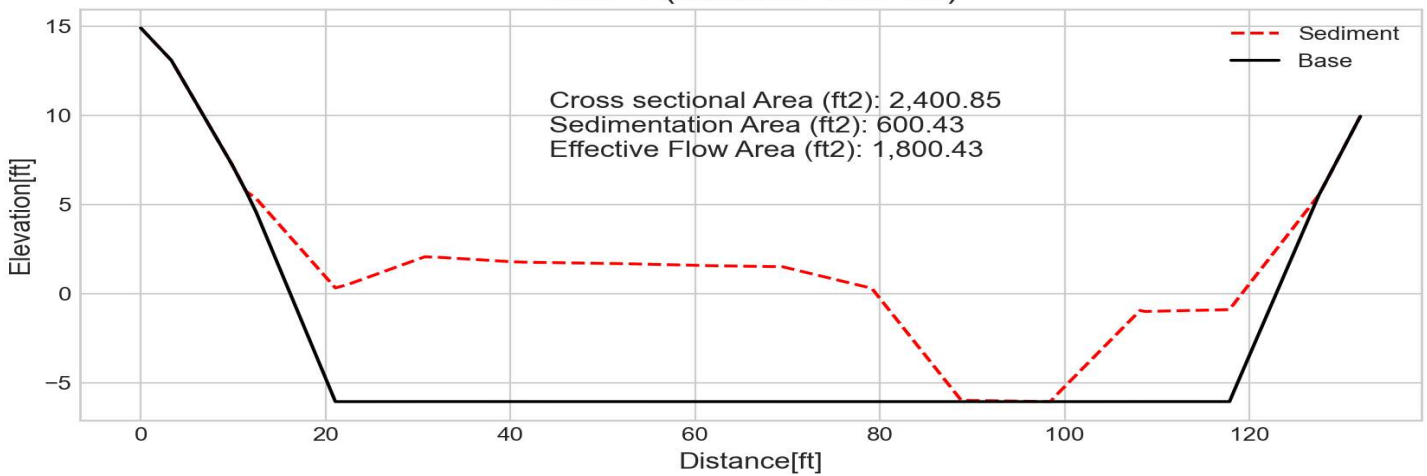
Year 4 (Station: 154+00)



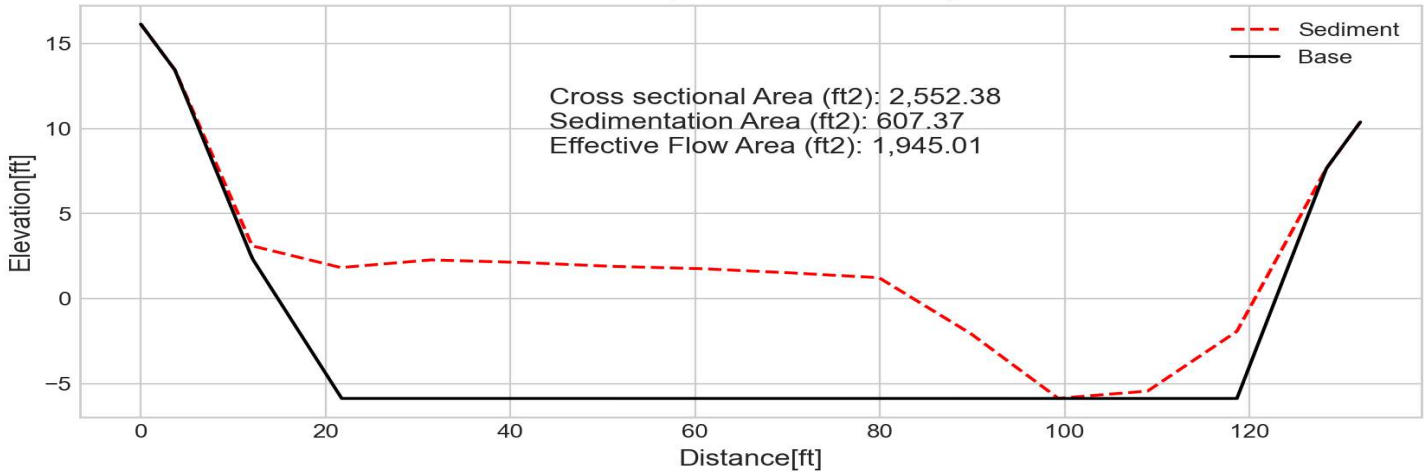
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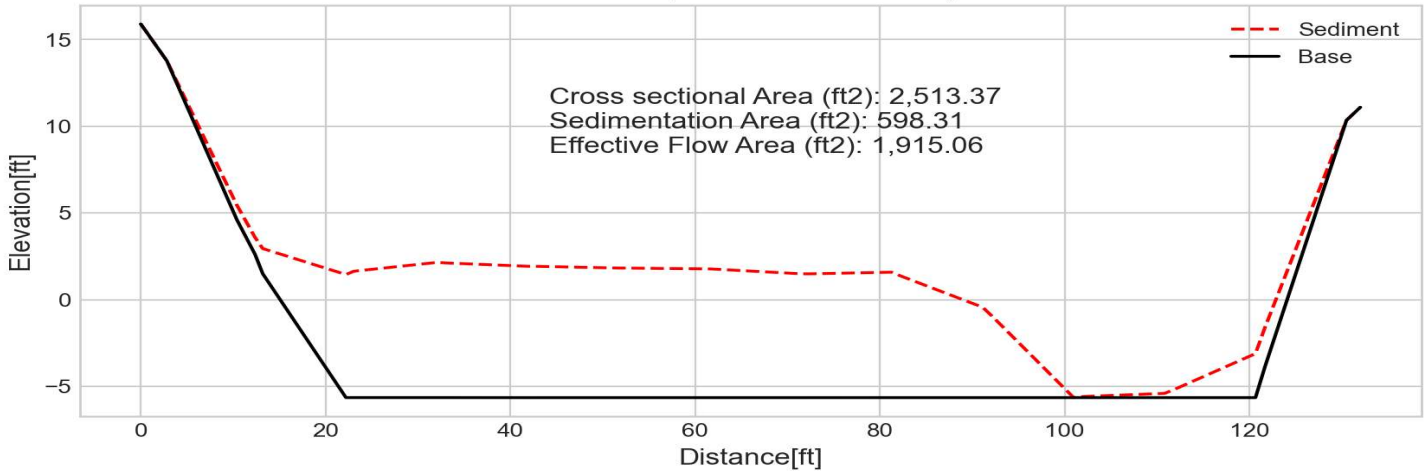
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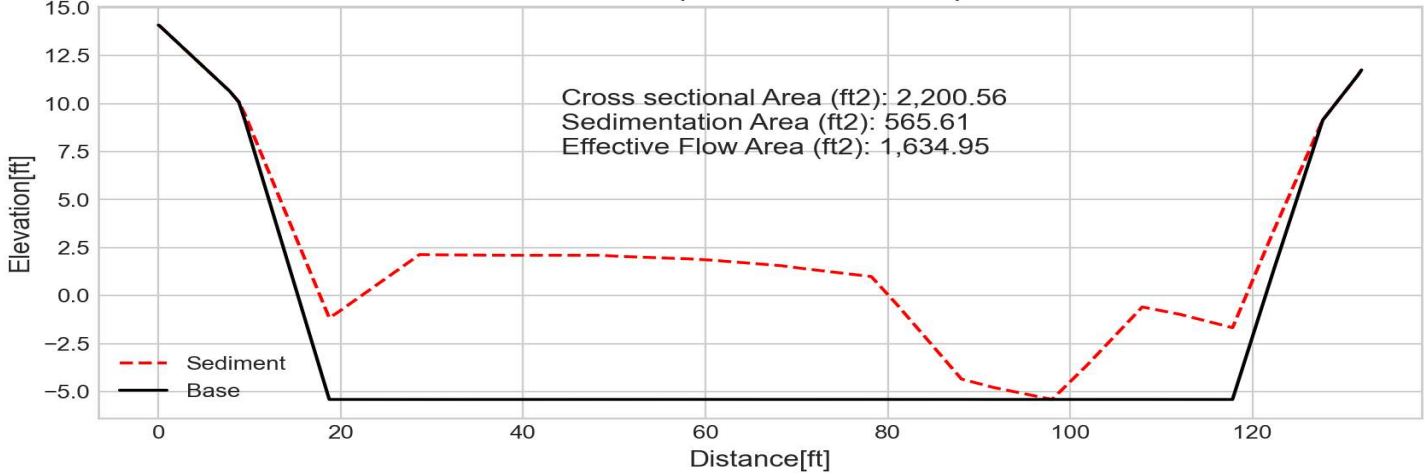
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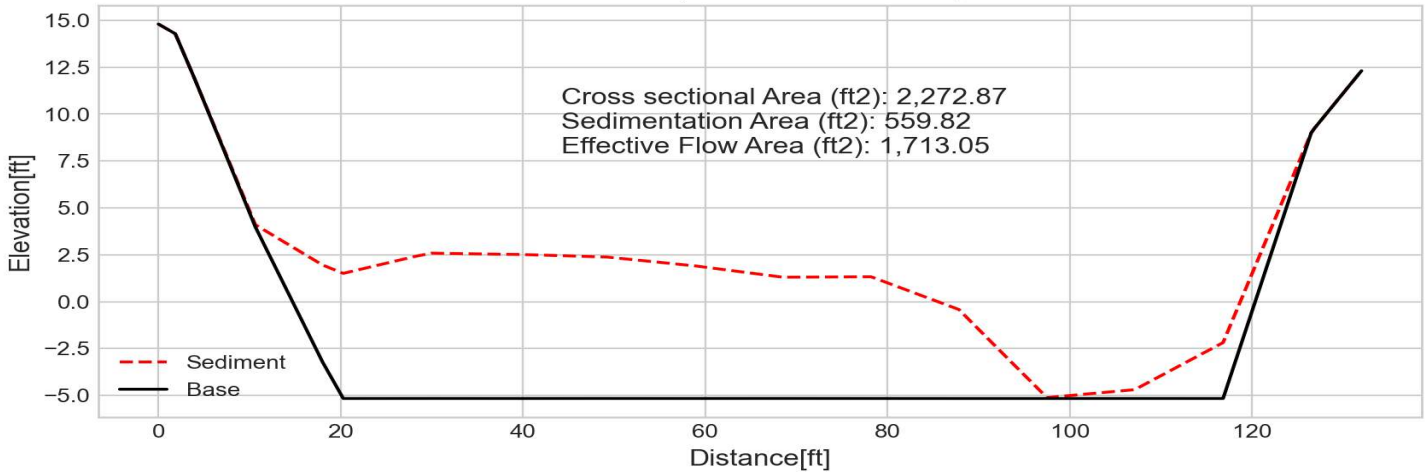
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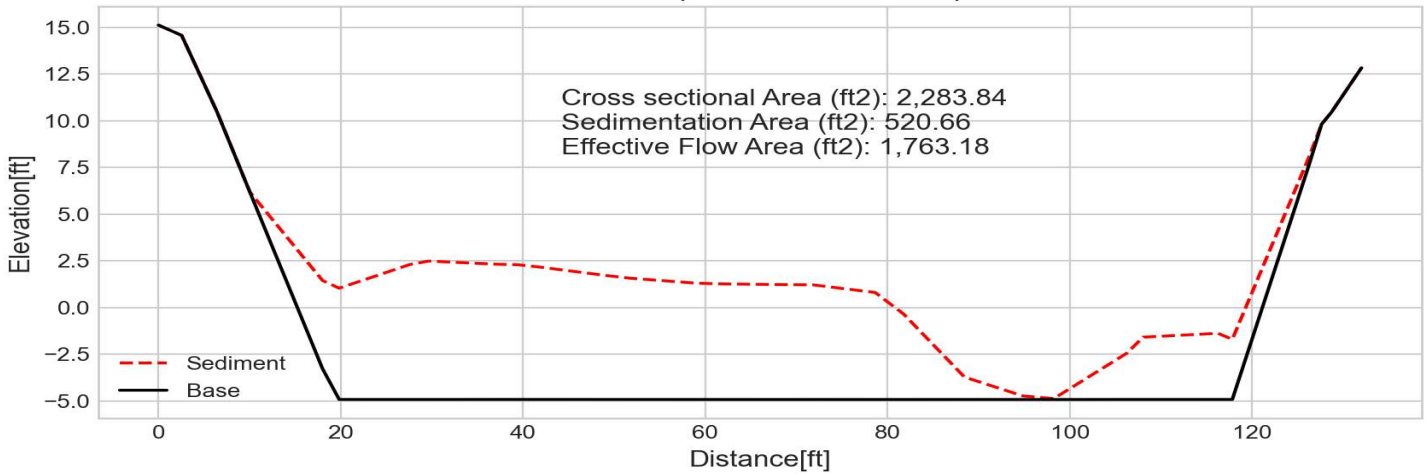
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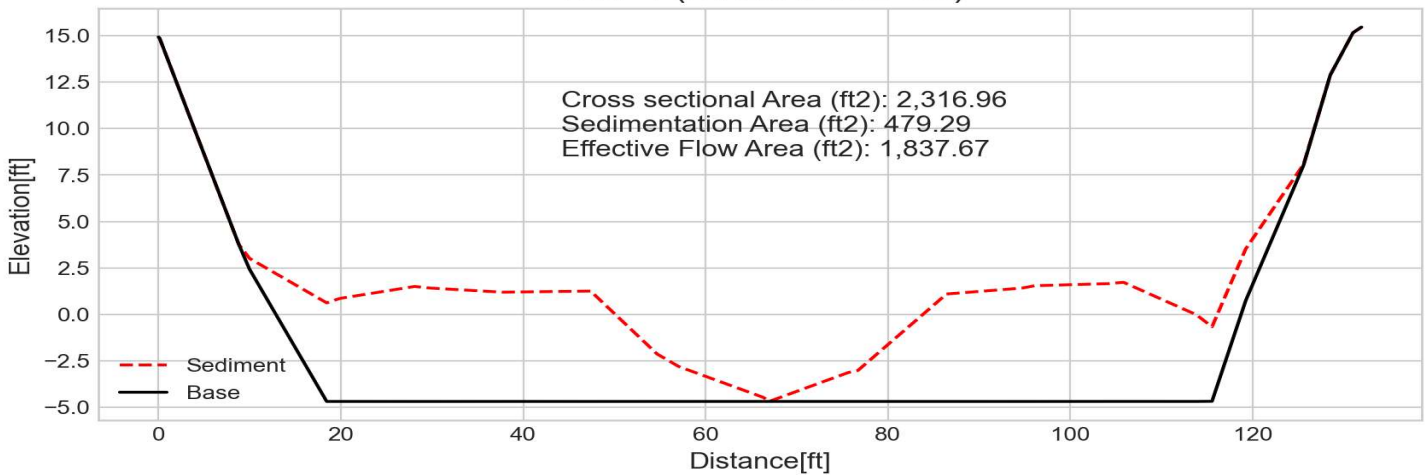
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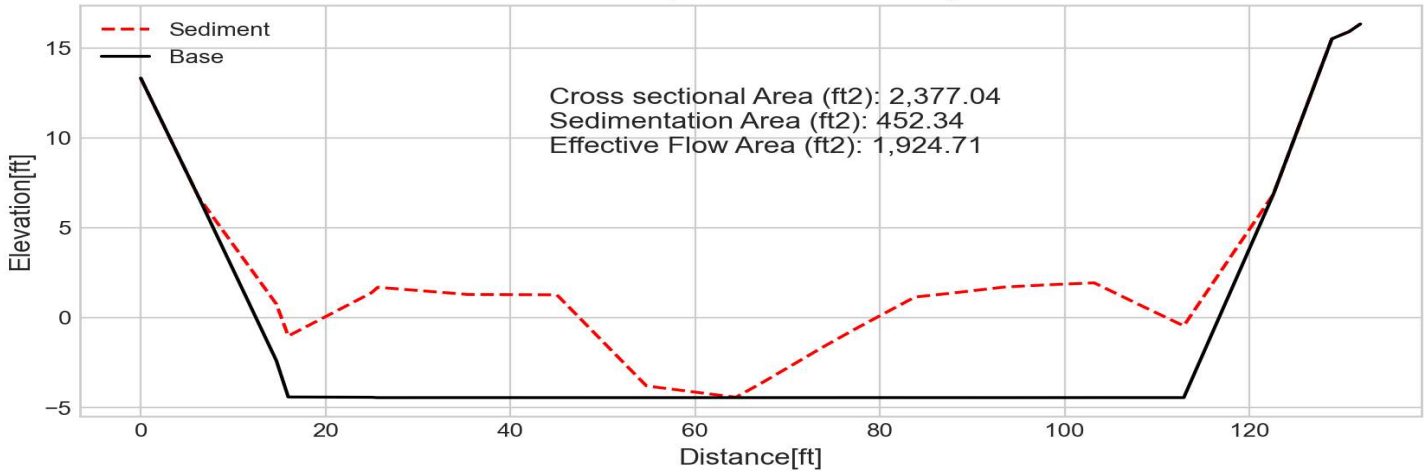
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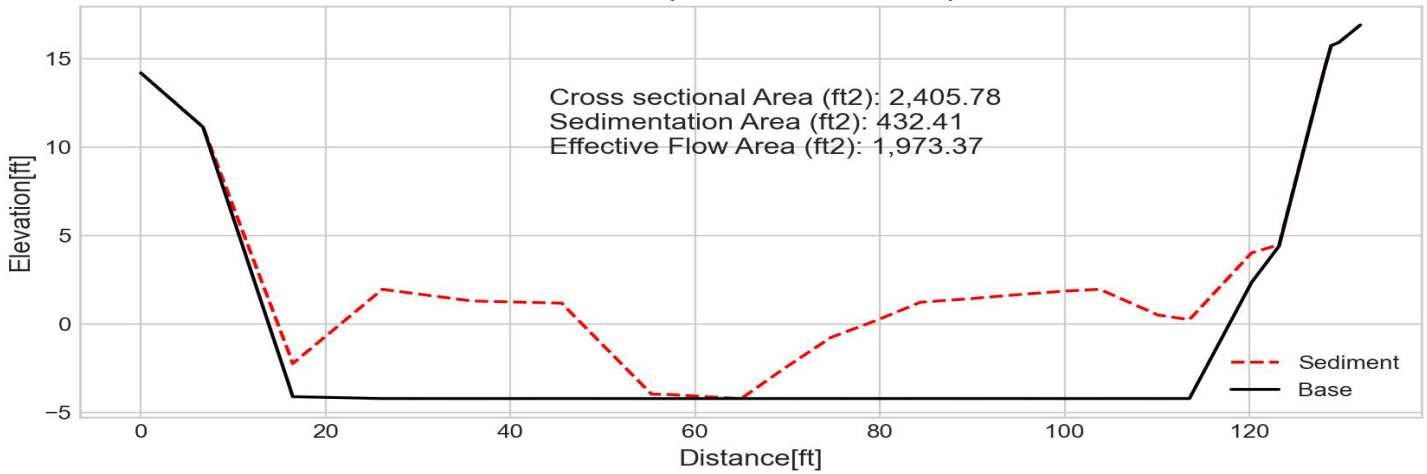
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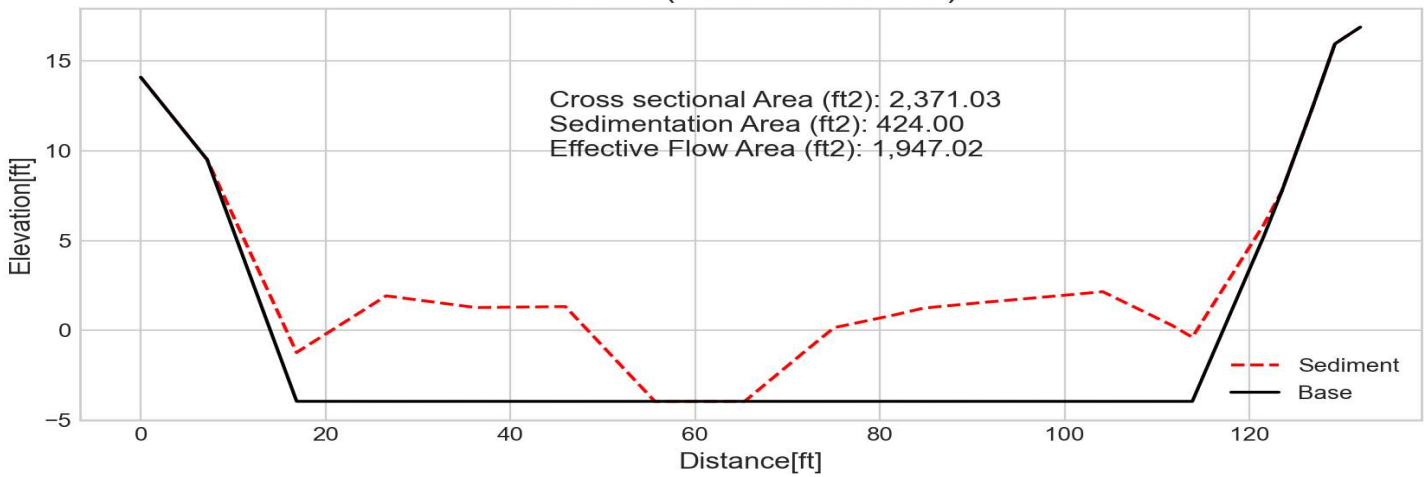
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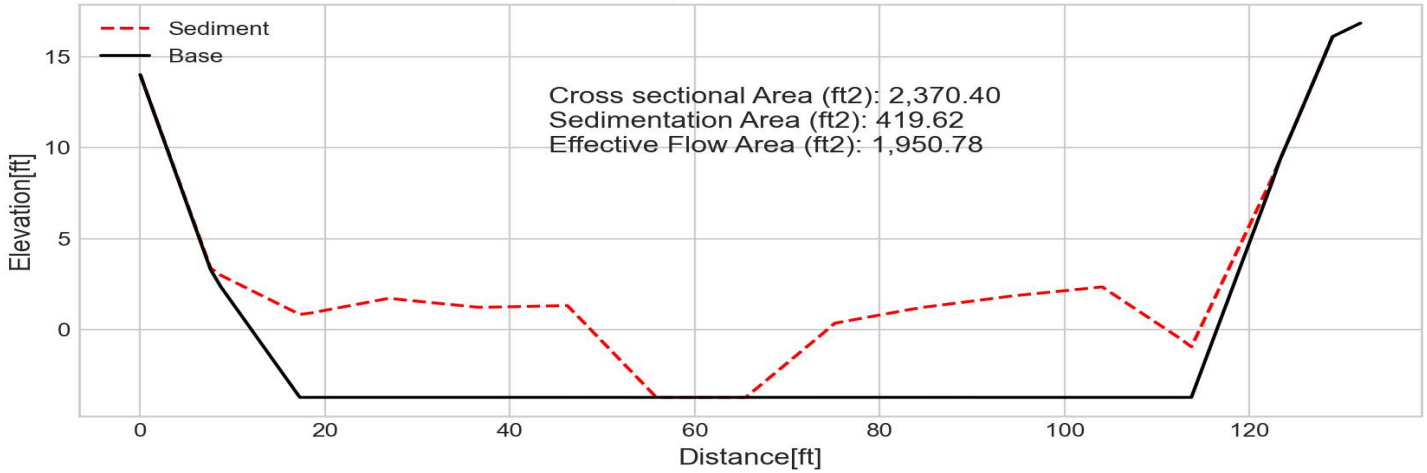
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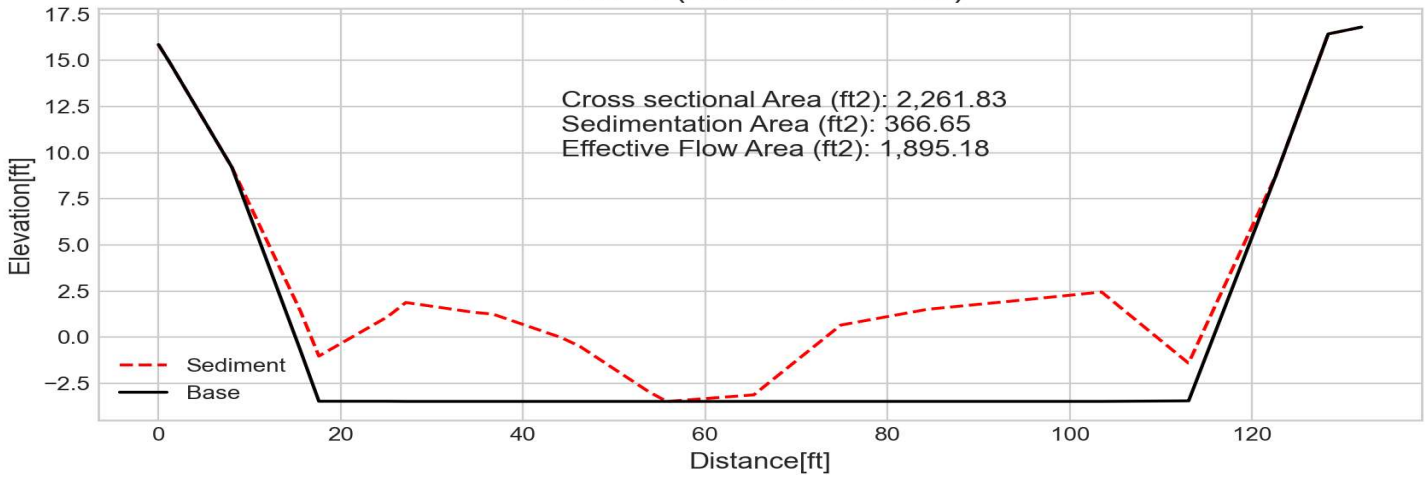
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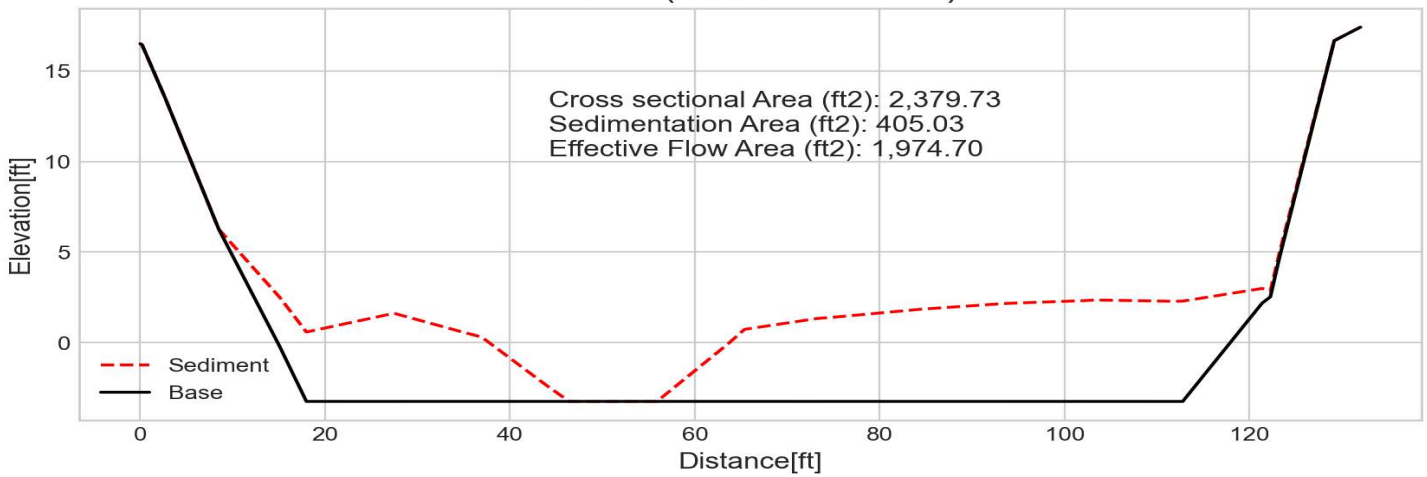
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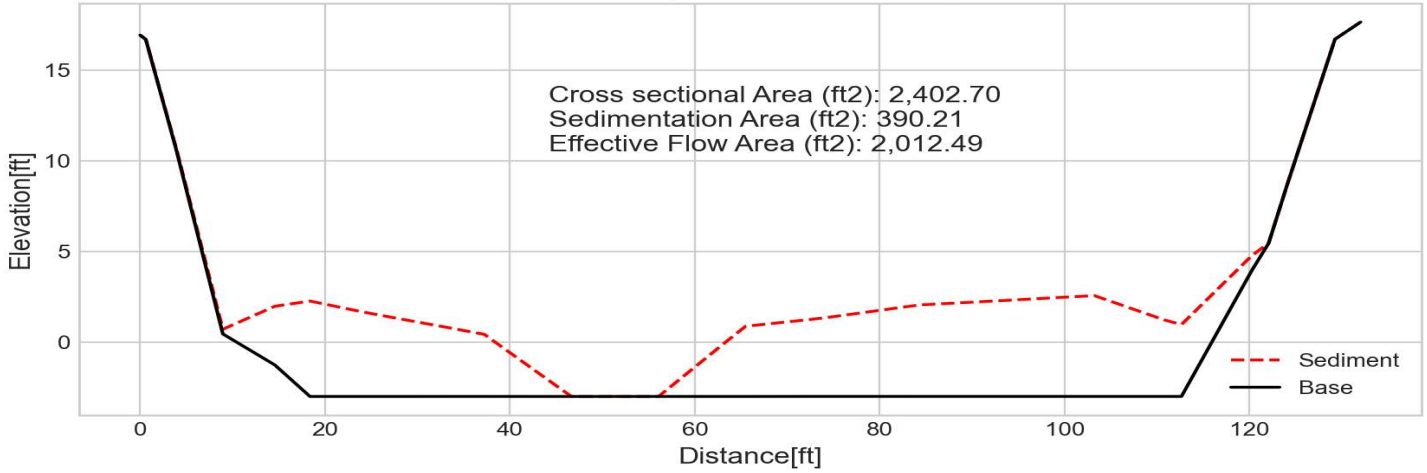
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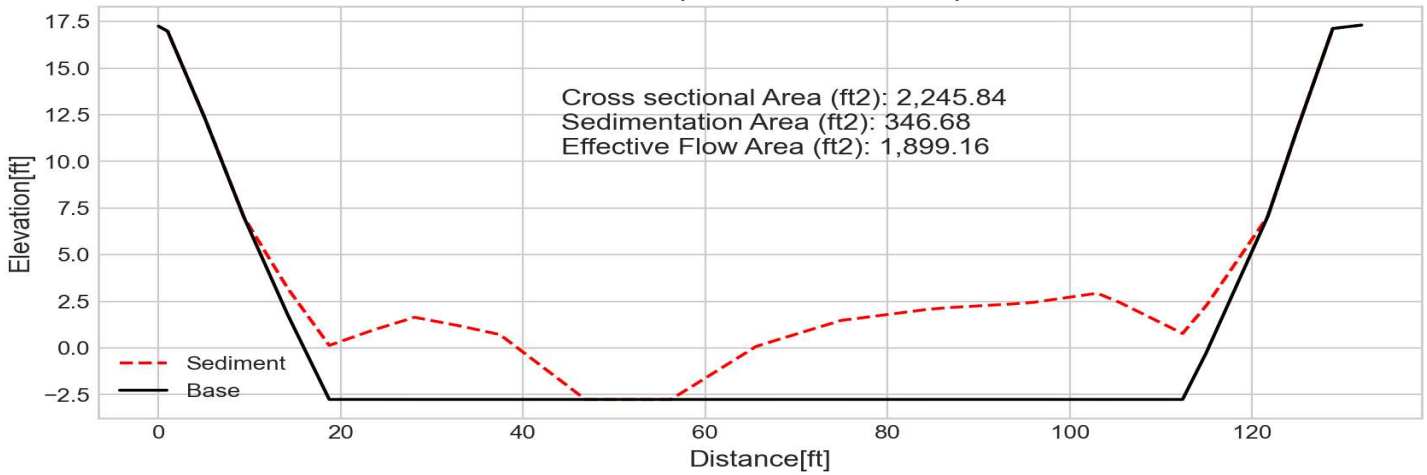
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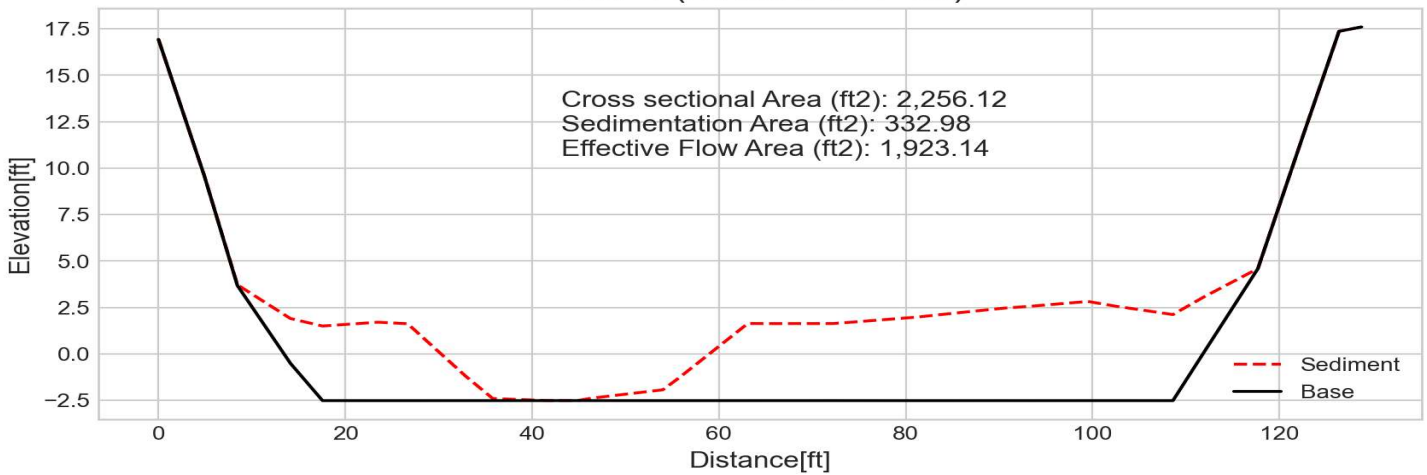
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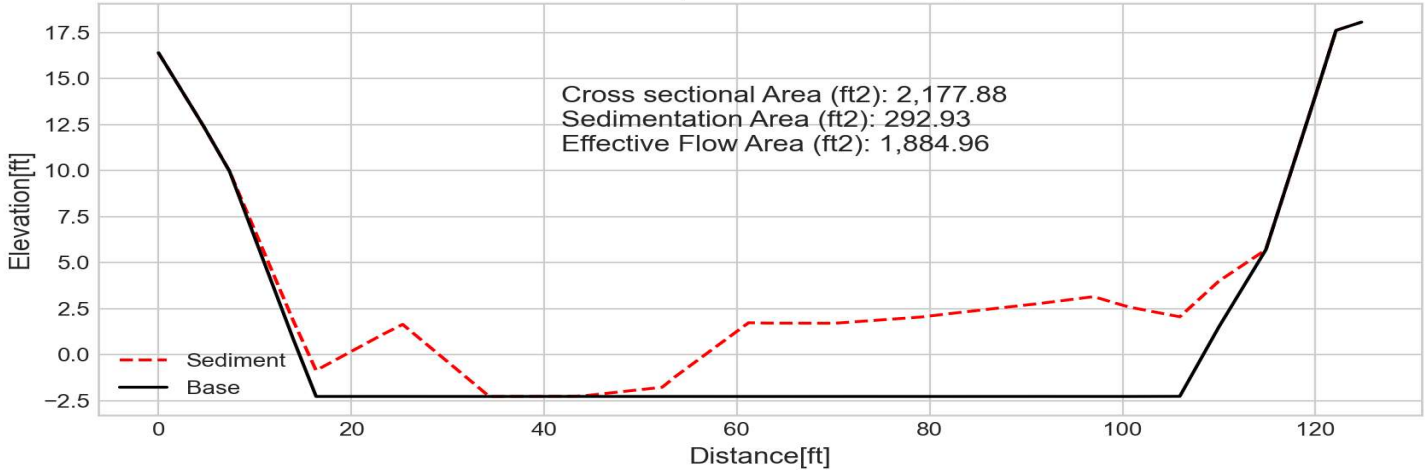
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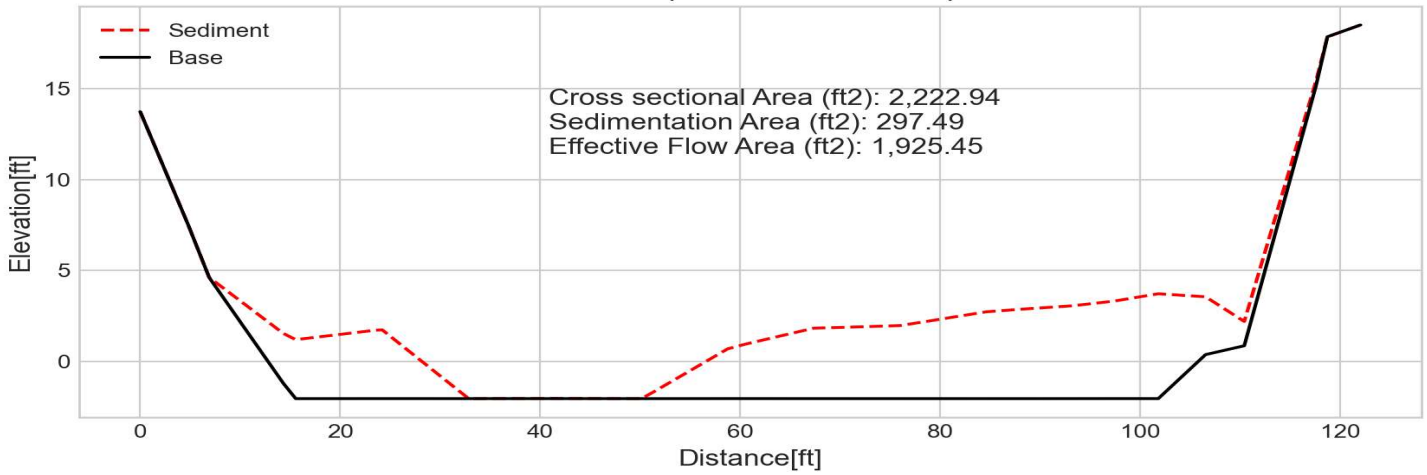
Year 4 (Station: 171+00)



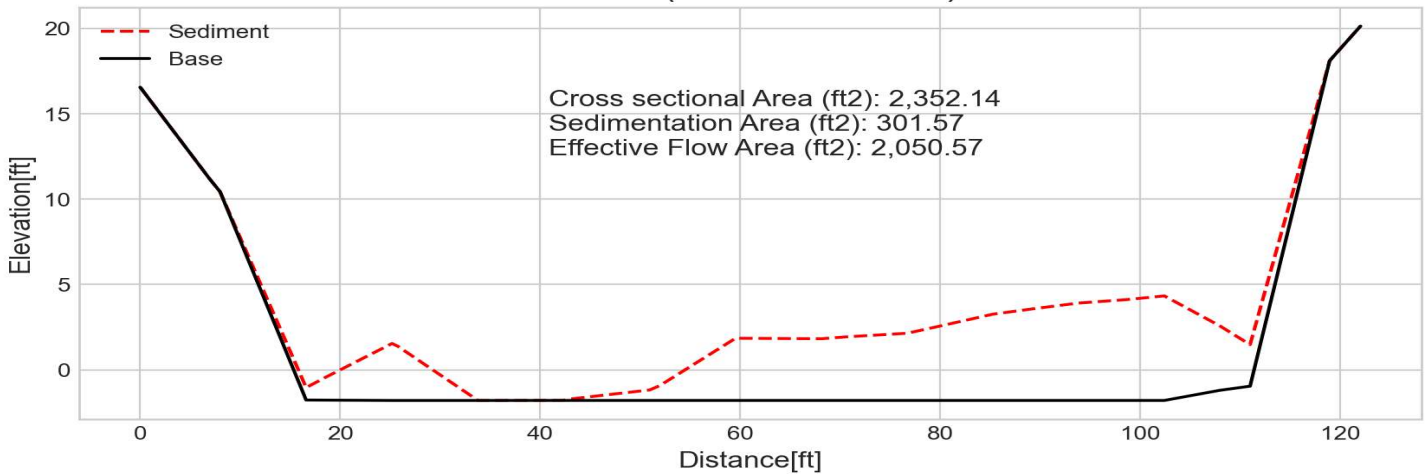
Year 4 (Station: 172+00)



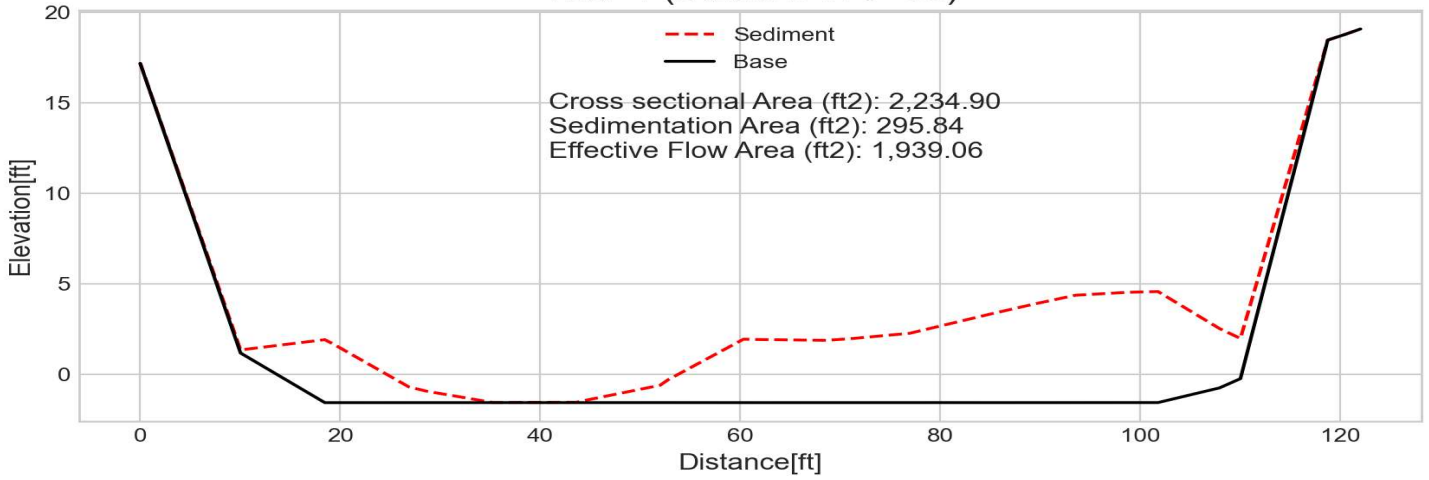
Year 4 (Station: 173+00)



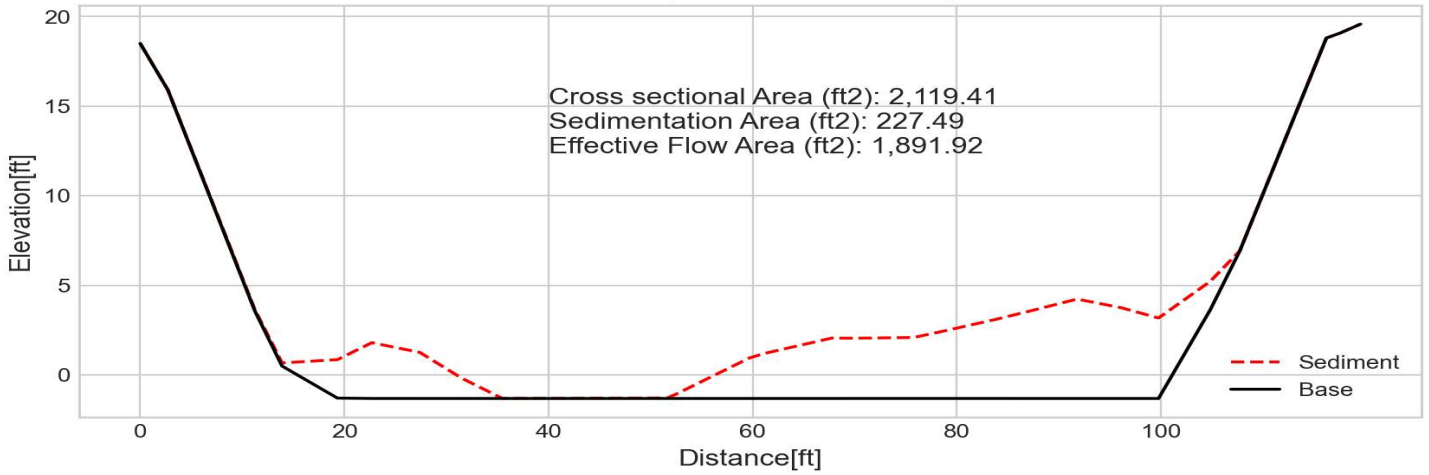
Year 4 (Station: 174+00)



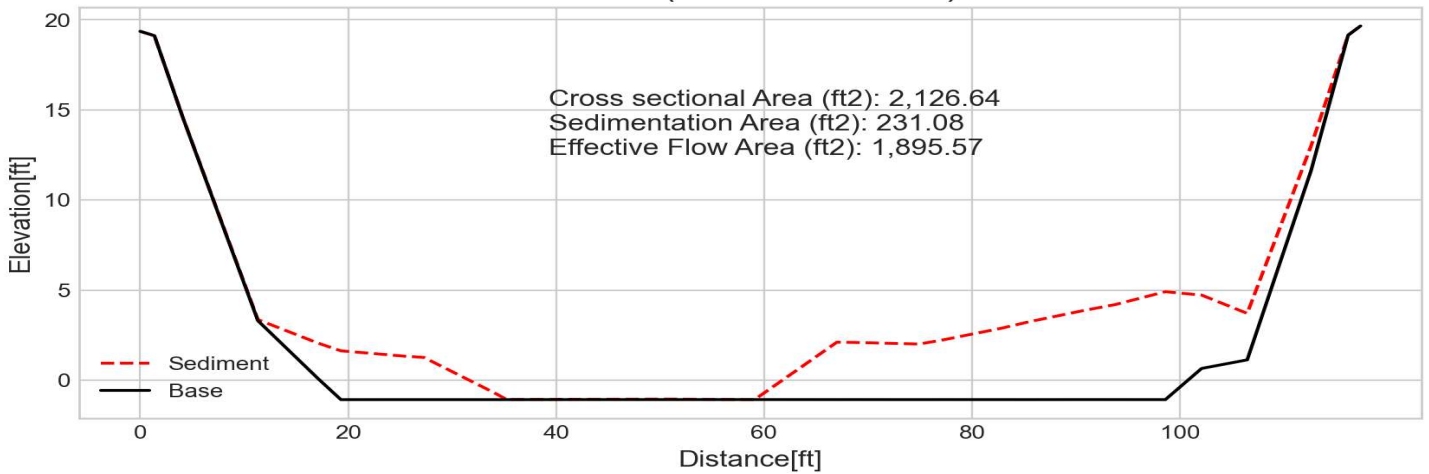
Year 4 (Station: 175+00)



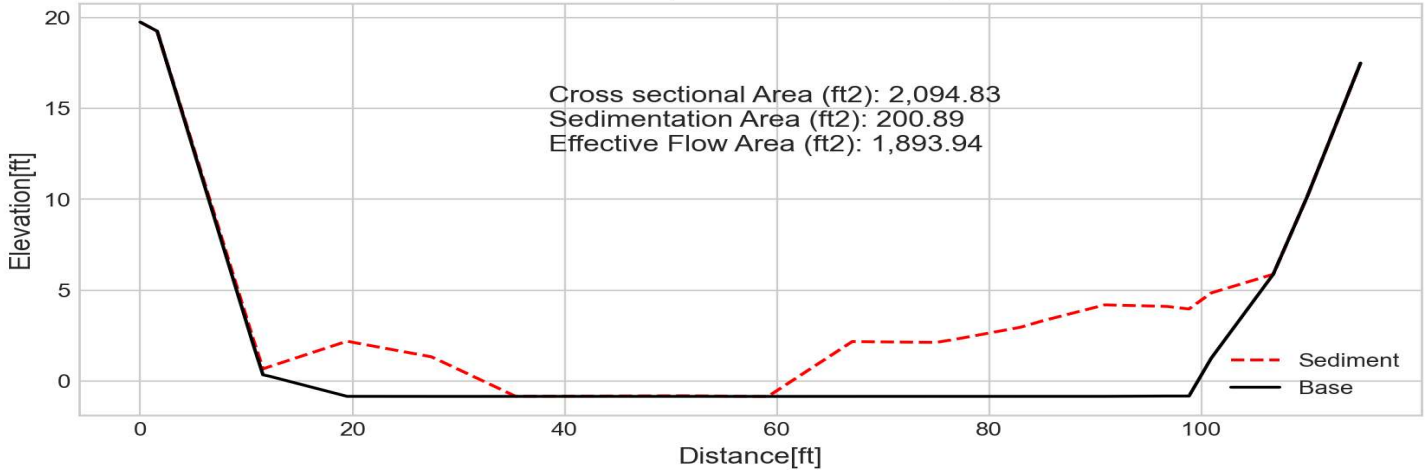
Year 4 (Station: 176+00)



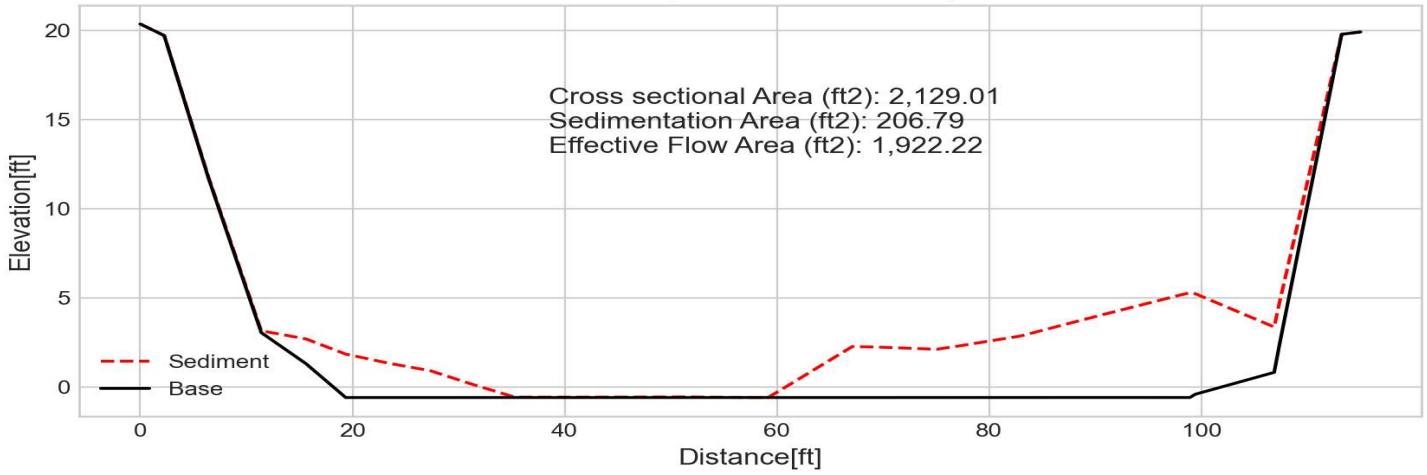
Year 4 (Station: 177+00)



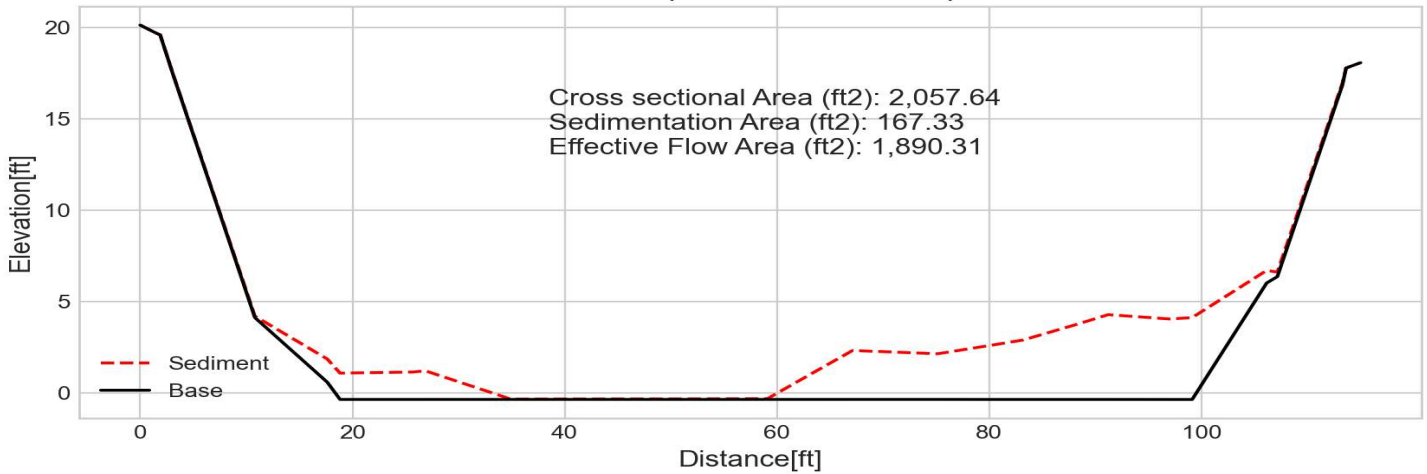
Year 4 (Station: 178+00)



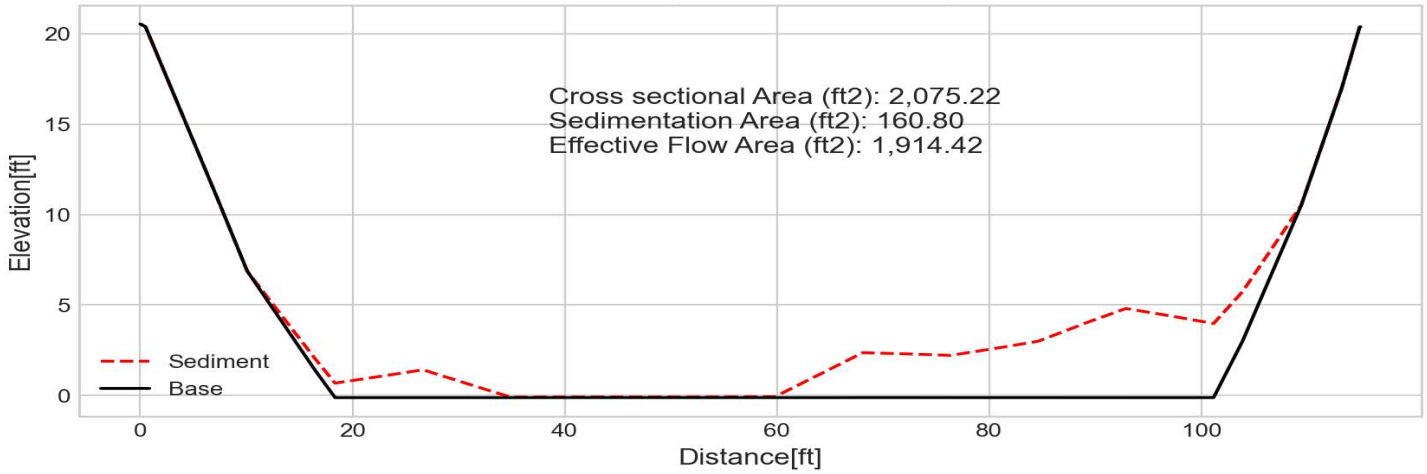
Year 4 (Station: 179+00)



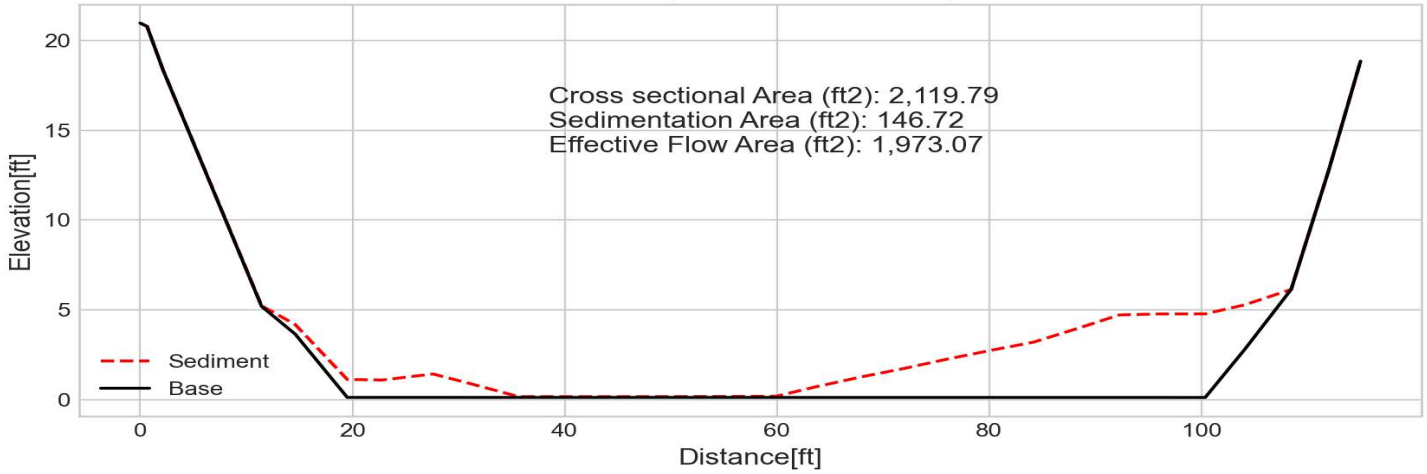
Year 4 (Station: 180+00)



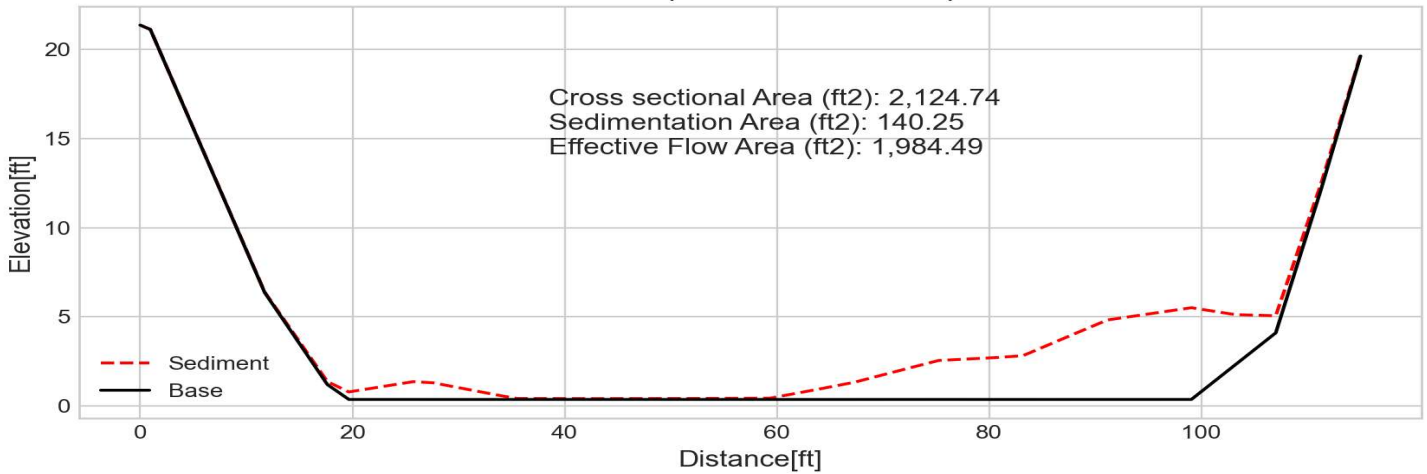
Year 4 (Station: 181+00)



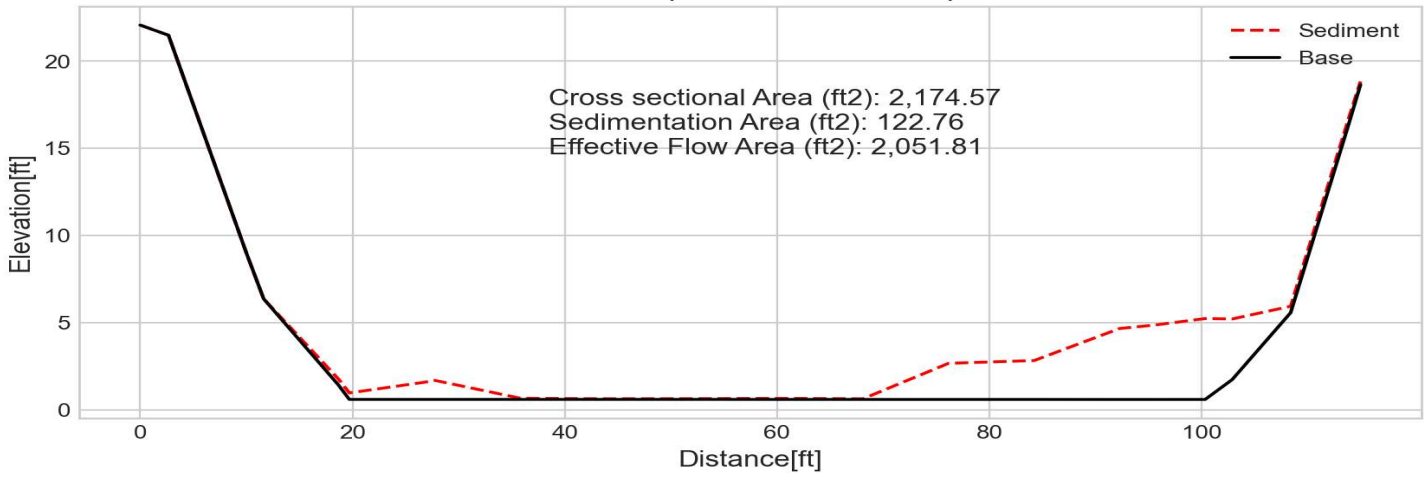
Year 4 (Station: 182+00)



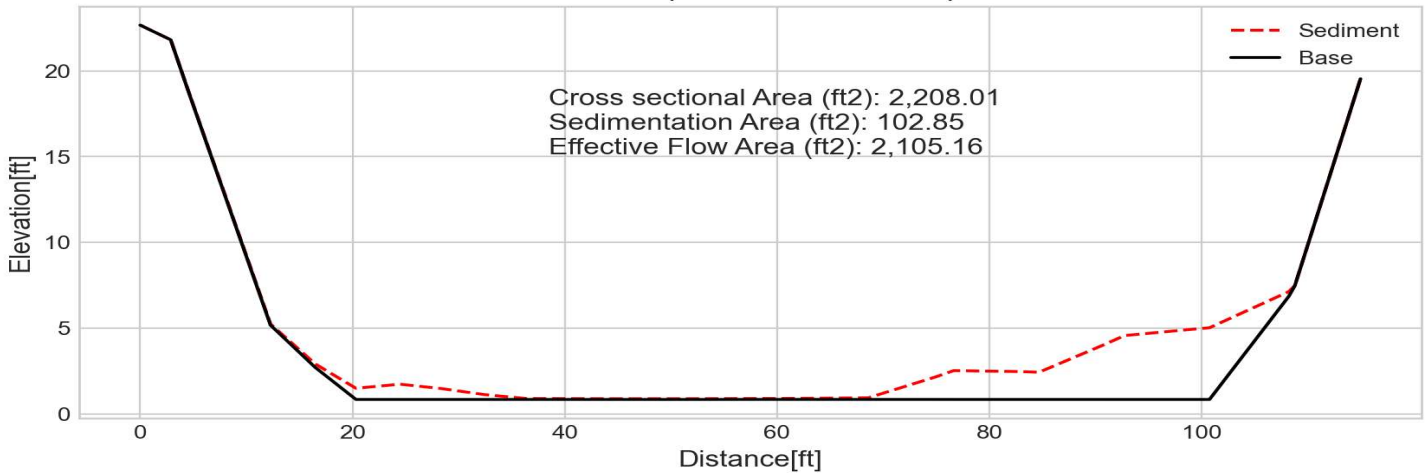
Year 4 (Station: 183+00)



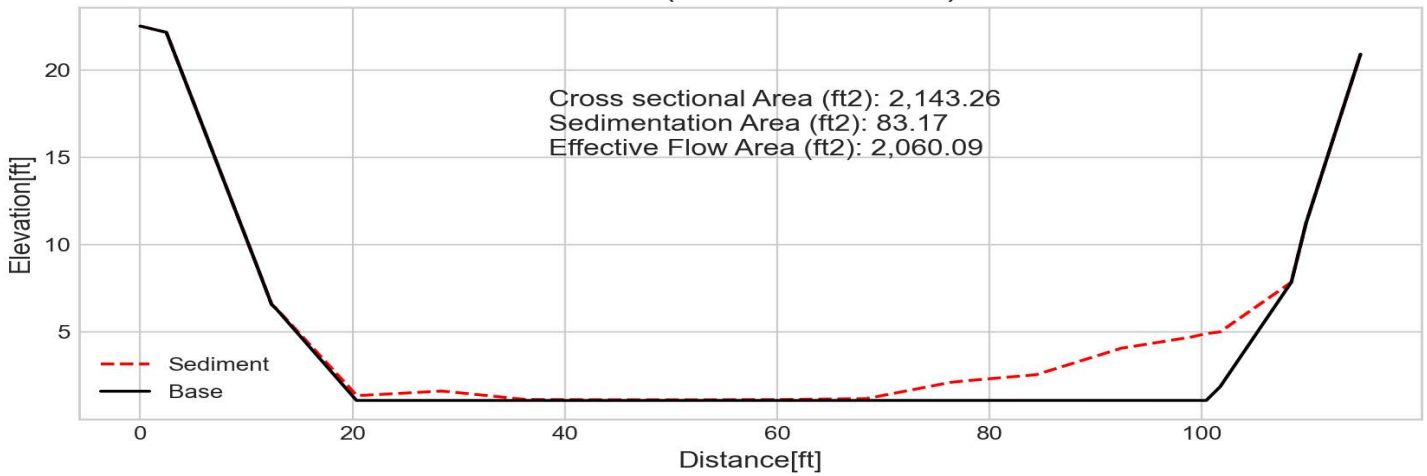
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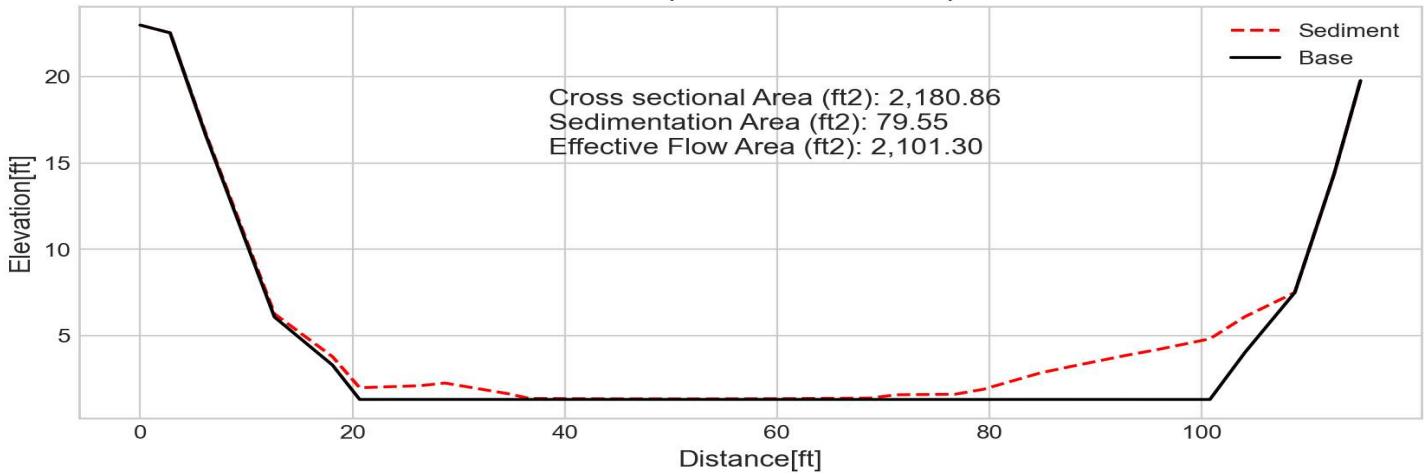
Year 4 (Station: 185+00)



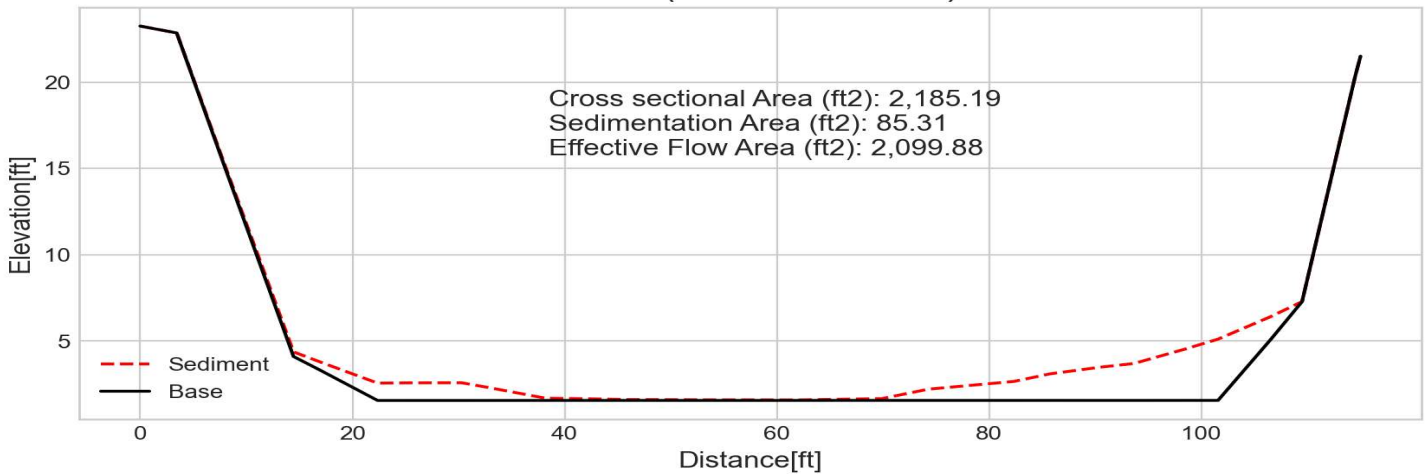
Year 4 (Station: 186+00)



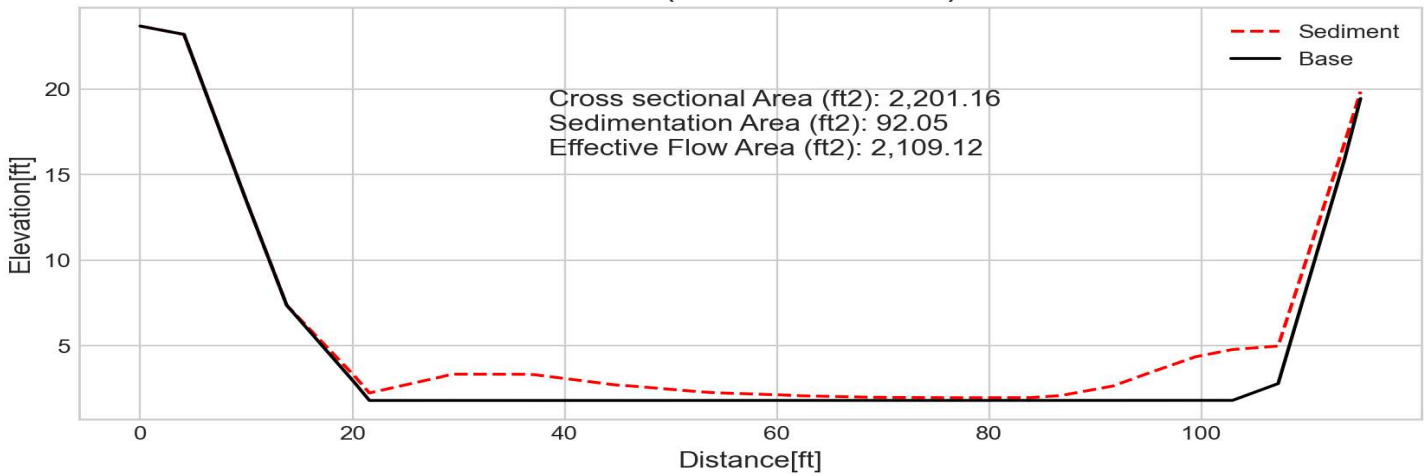
Year 4 (Station: 187+00)



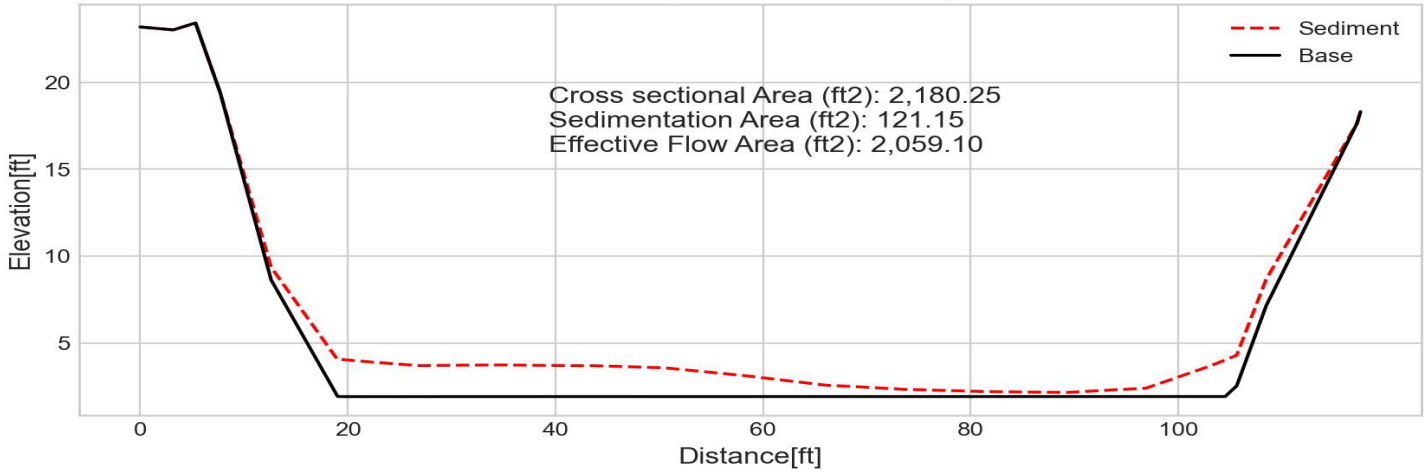
Year 4 (Station: 188+00)



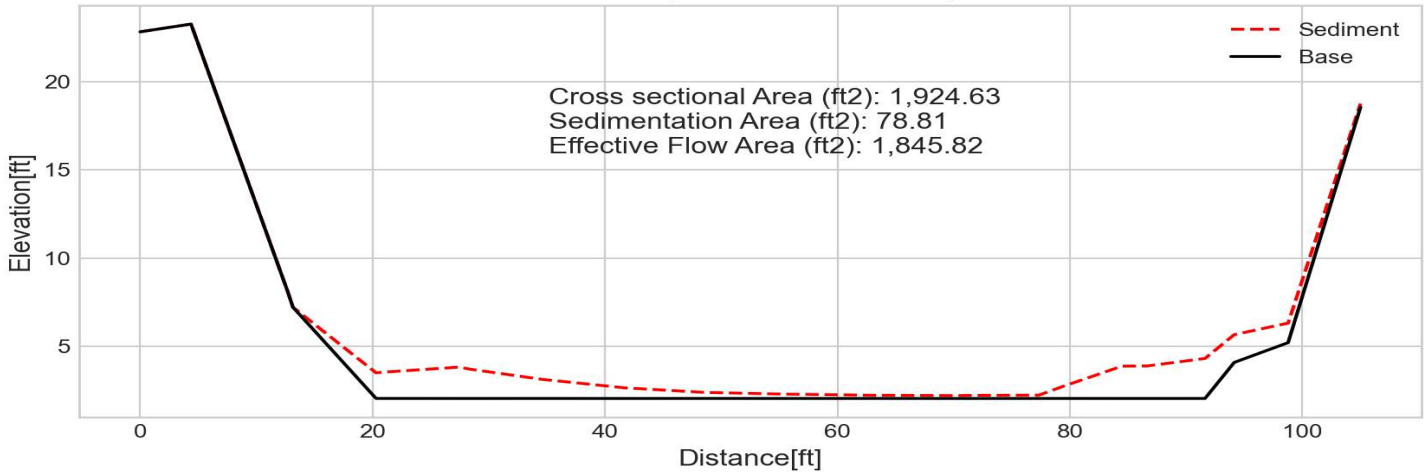
Year 4 (Station: 189+00)



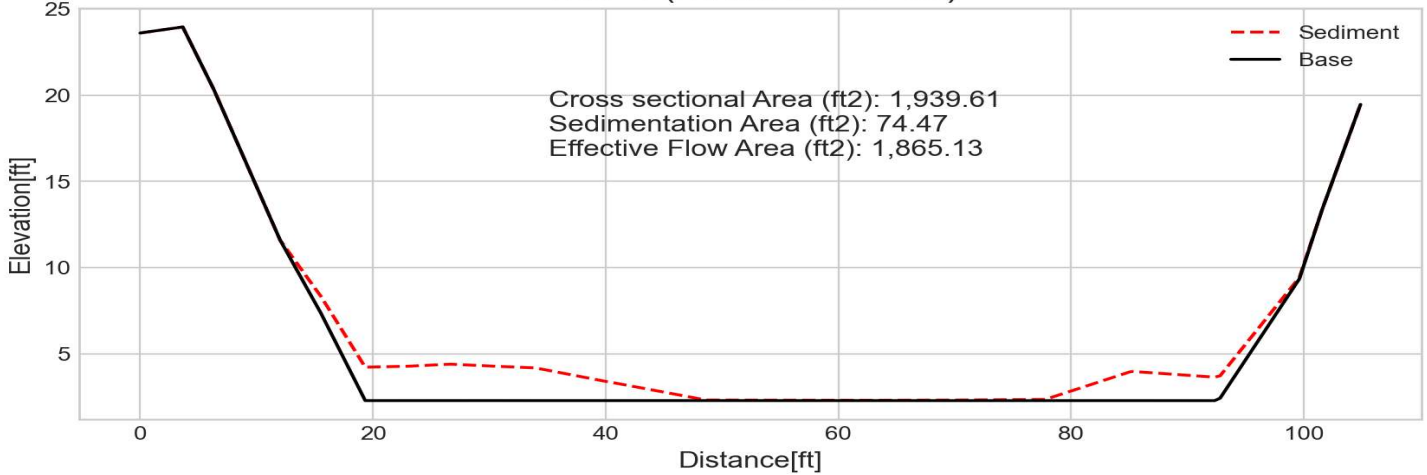
Year 4 (Station: 189+49)



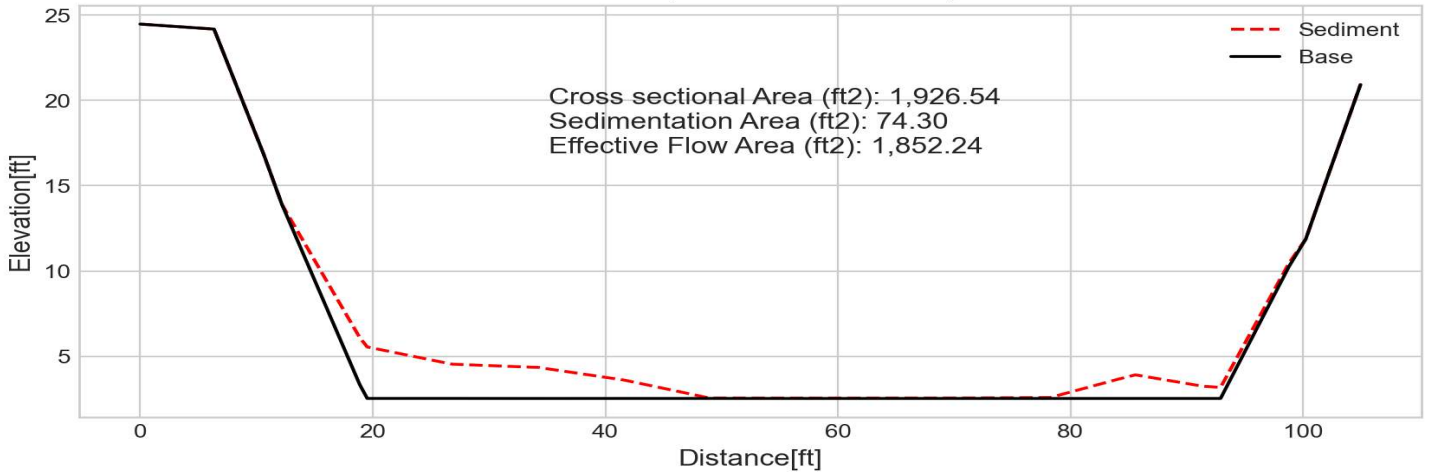
Year 4 (Station: 190+00)



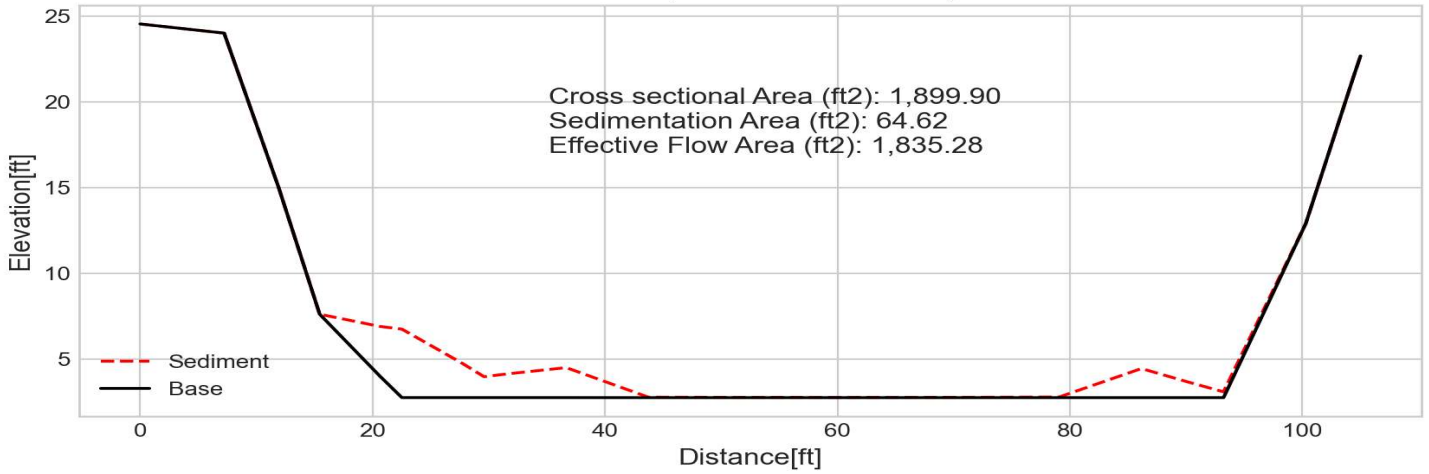
Year 4 (Station: 191+00)



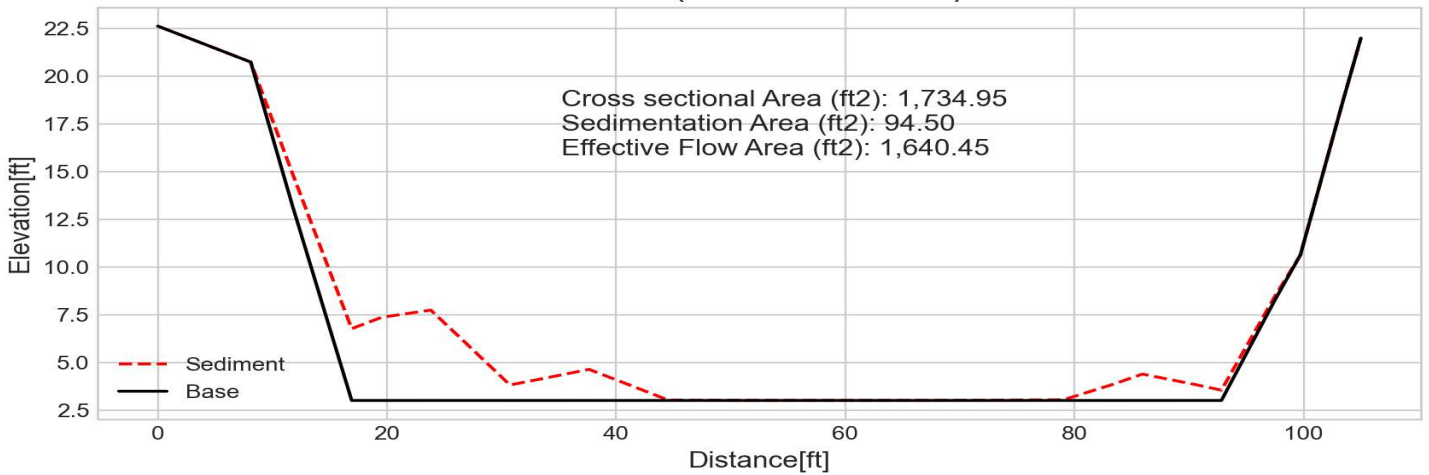
Year 4 (Station: 192+00)



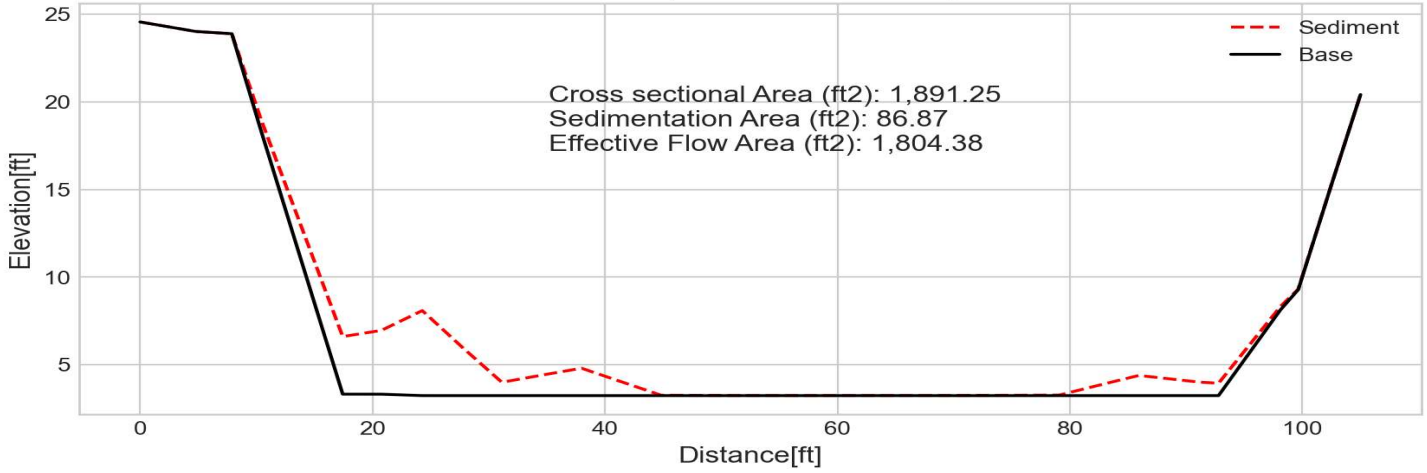
Year 4 (Station: 193+00)



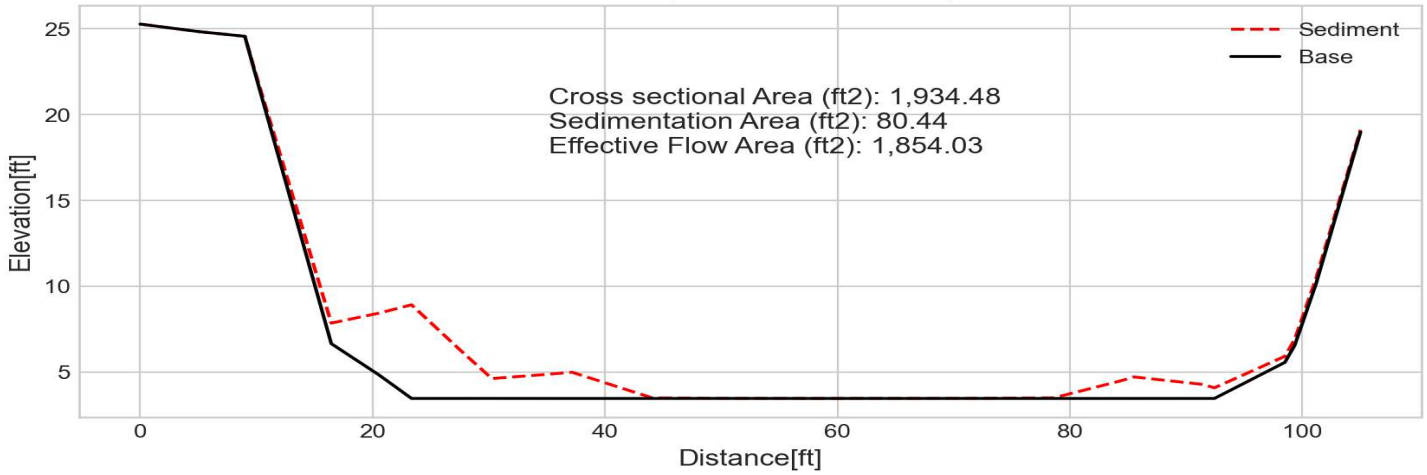
Year 4 (Station: 194+00)



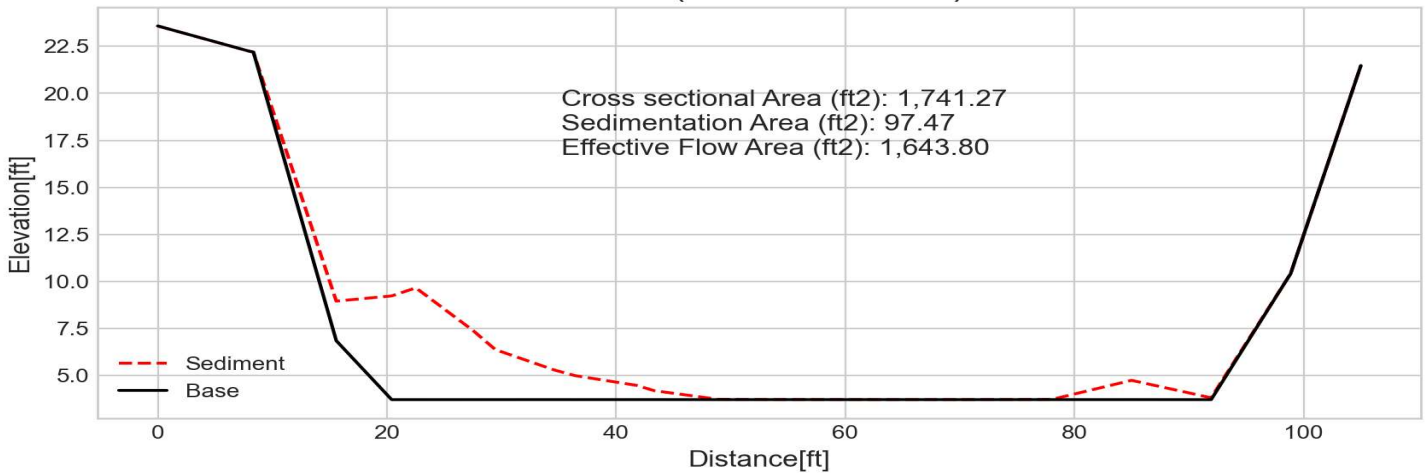
Year 4 (Station: 195+00)



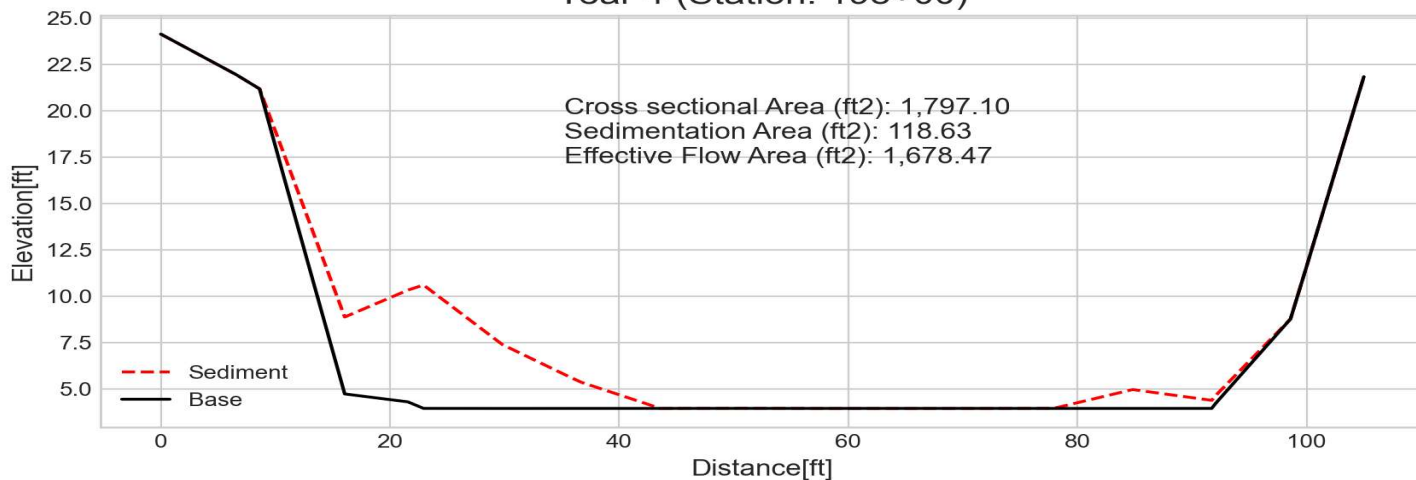
Year 4 (Station: 196+00)



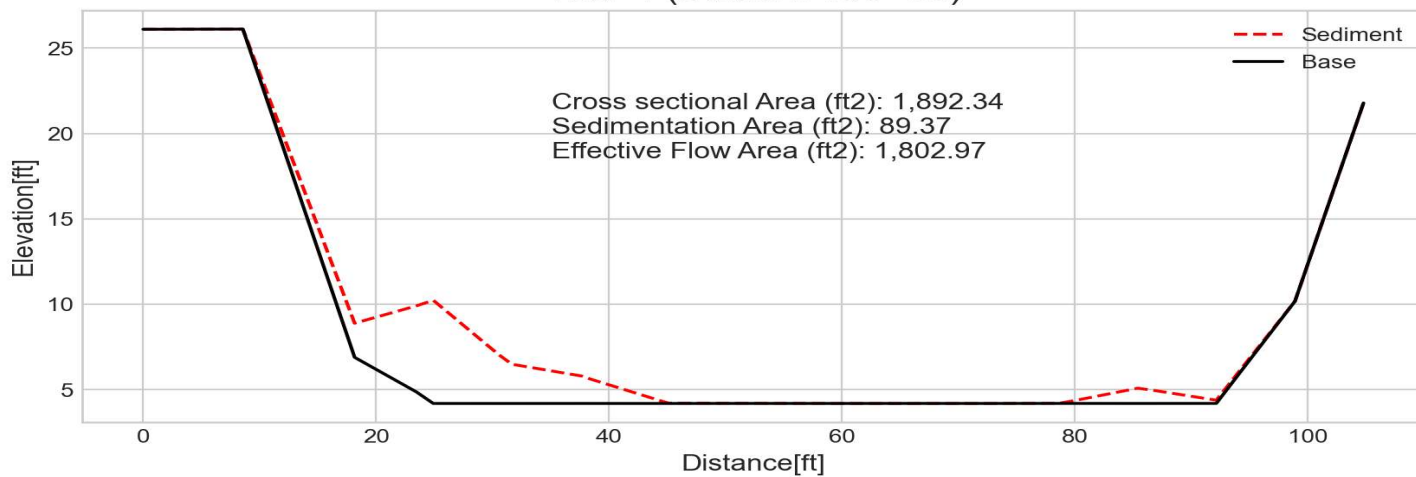
Year 4 (Station: 197+00)



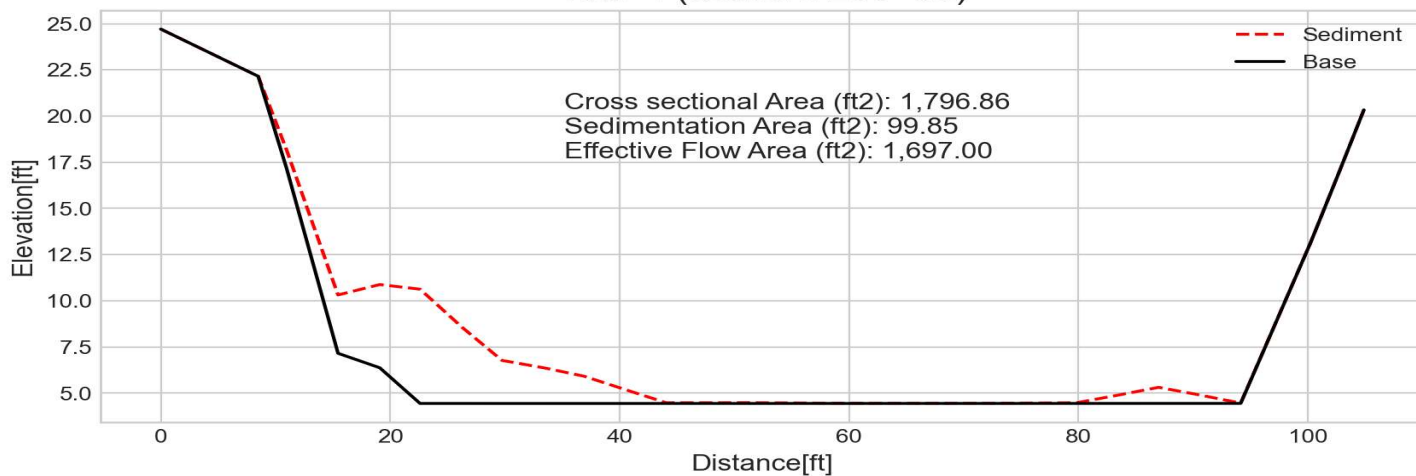
Year 4 (Station: 198+00)



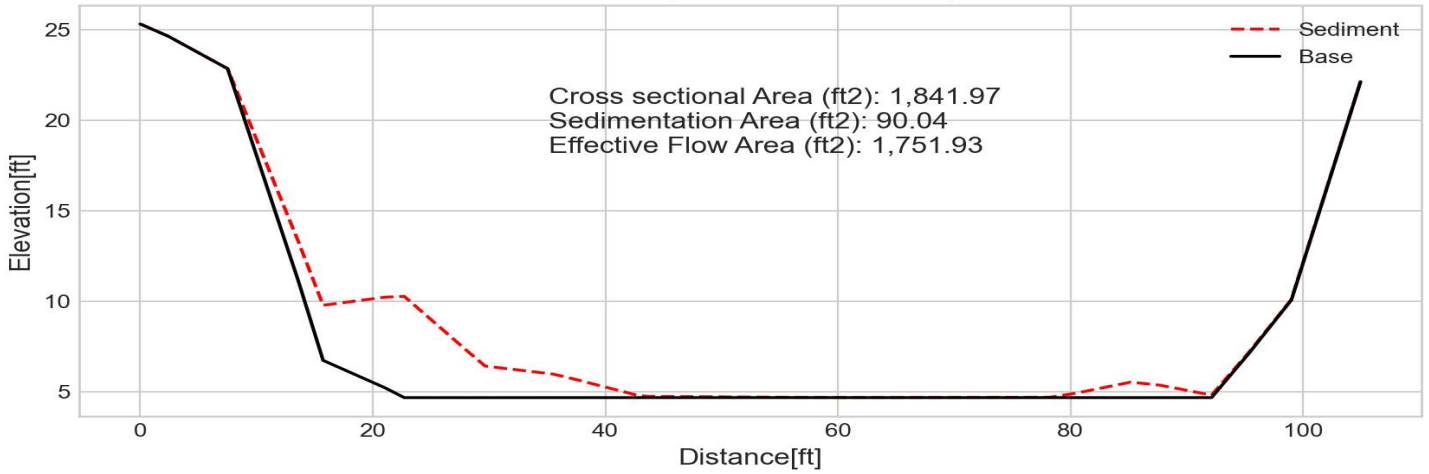
Year 4 (Station: 199+00)



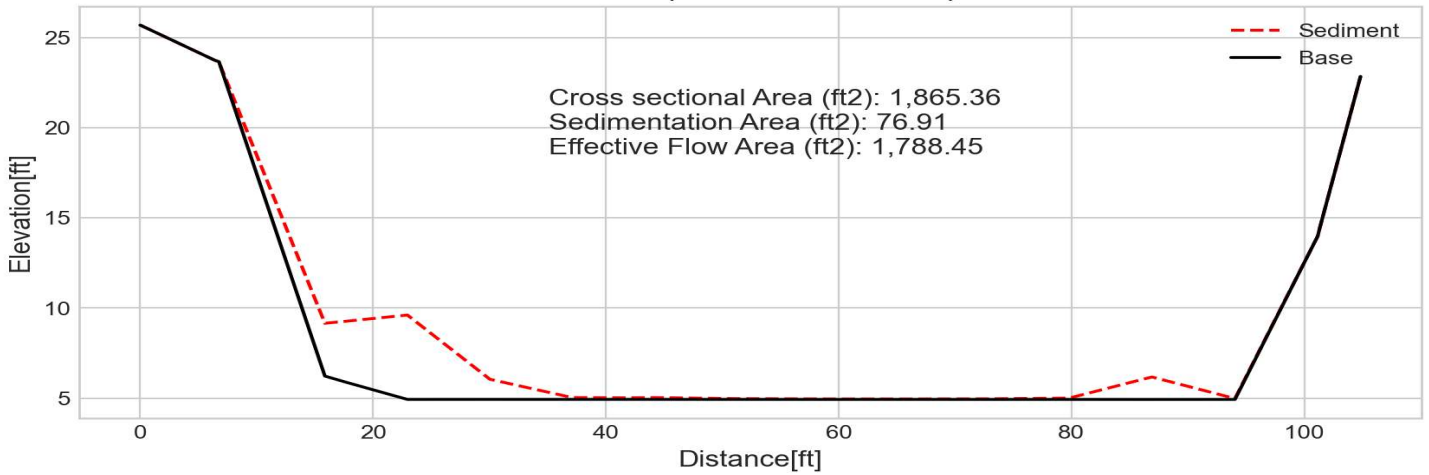
Year 4 (Station: 200+00)



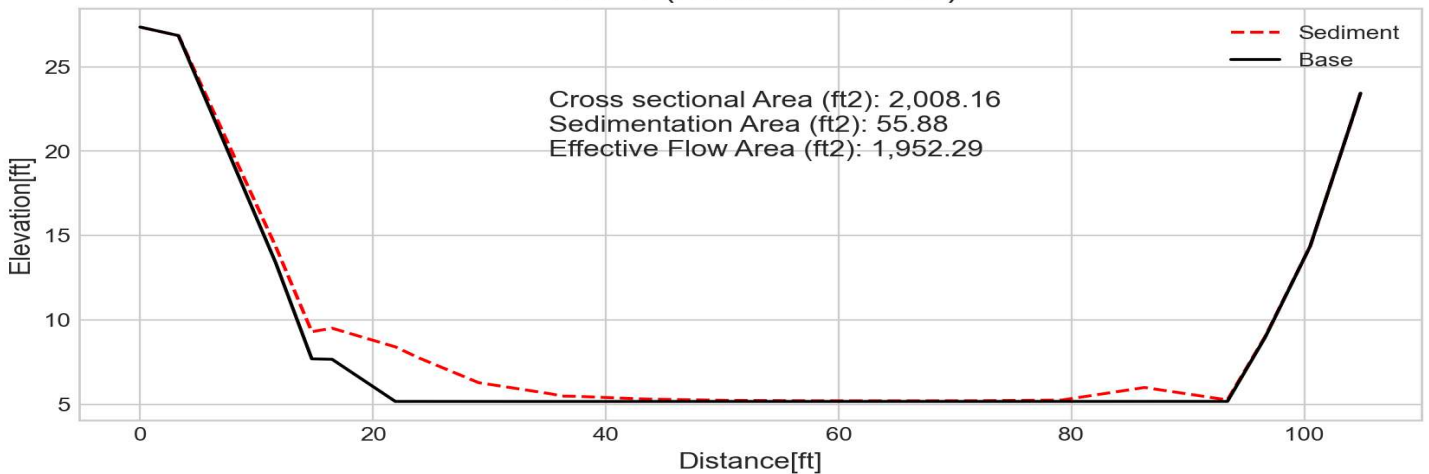
Year 4 (Station: 201+00)



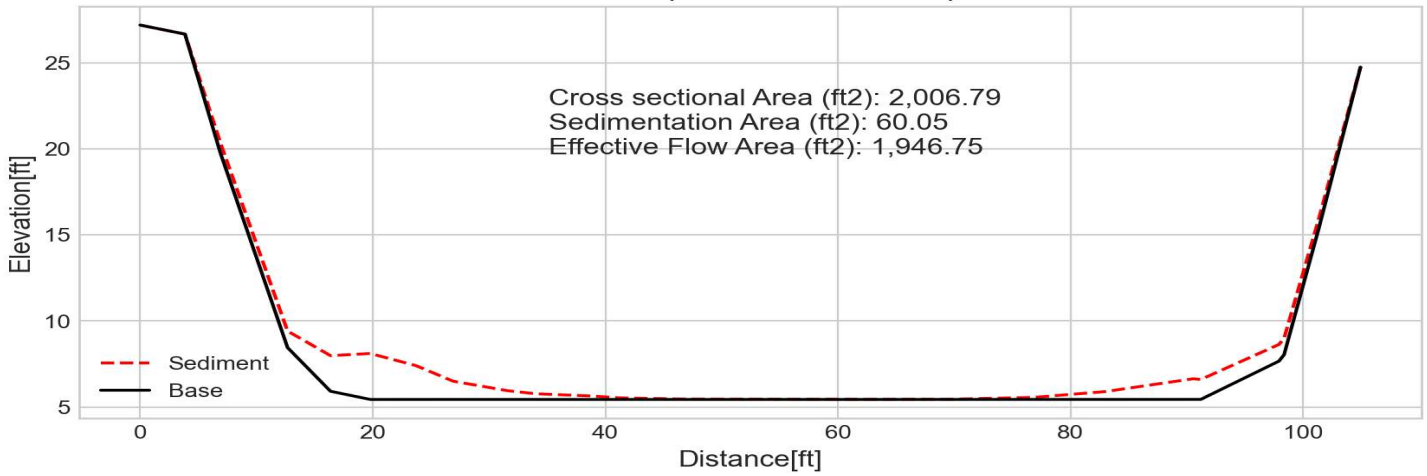
Year 4 (Station: 202+00)



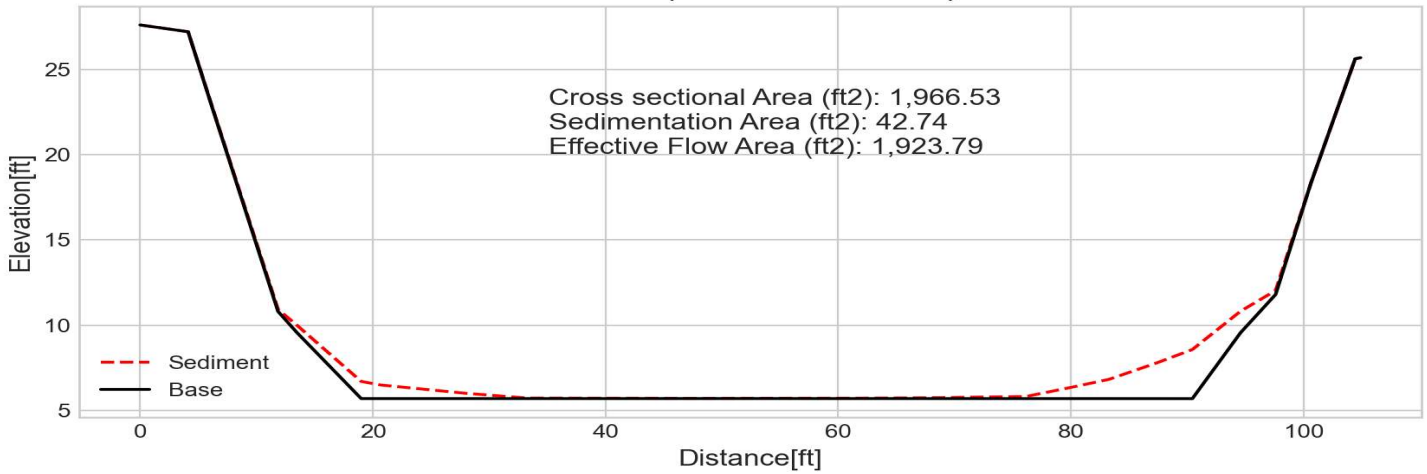
Year 4 (Station: 203+00)



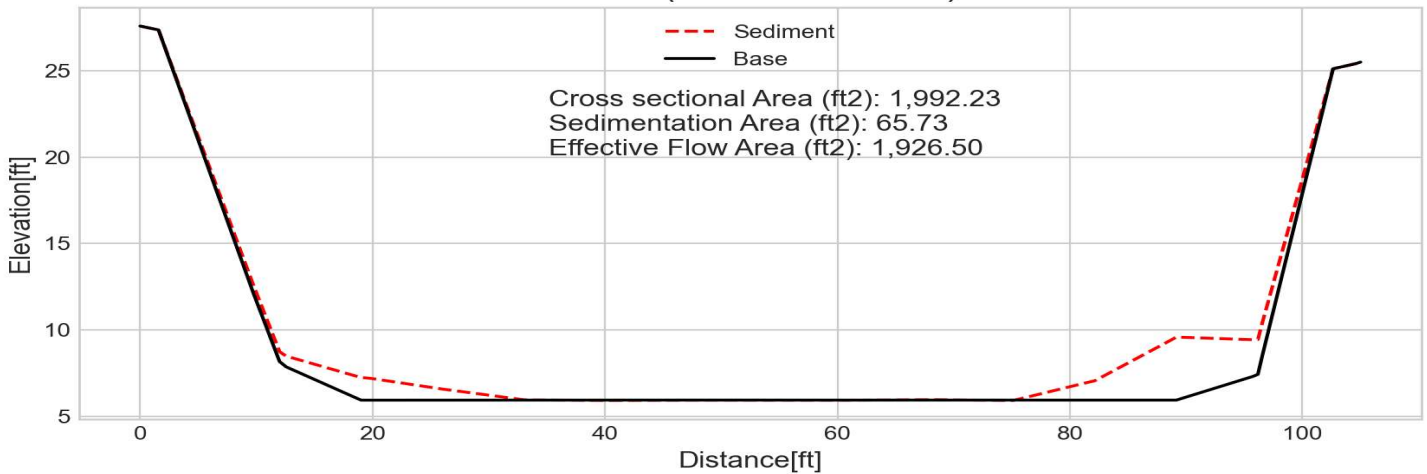
Year 4 (Station: 204+00)



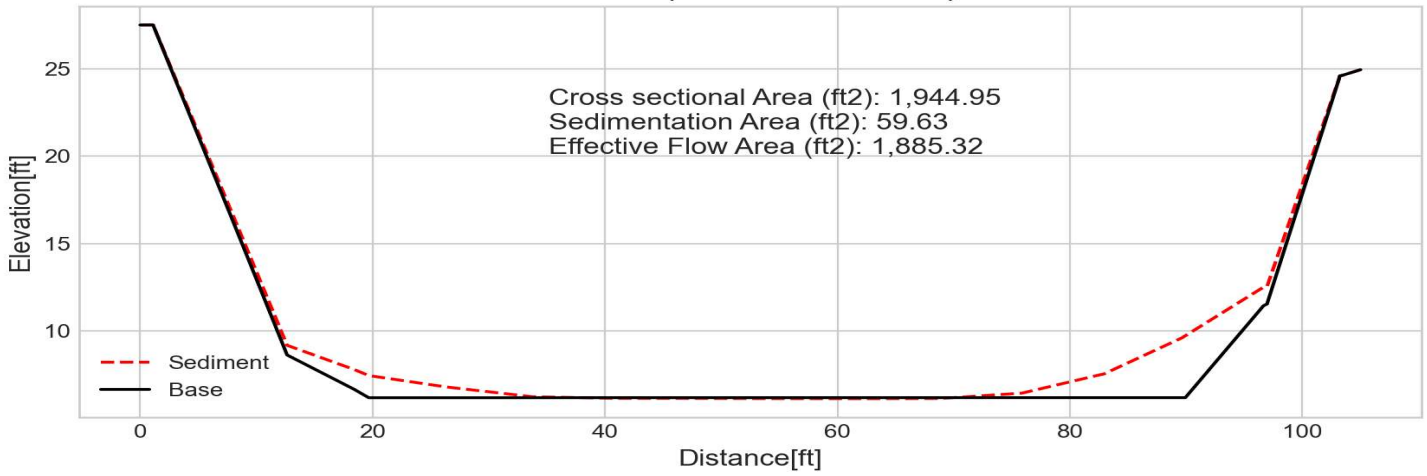
Year 4 (Station: 205+00)



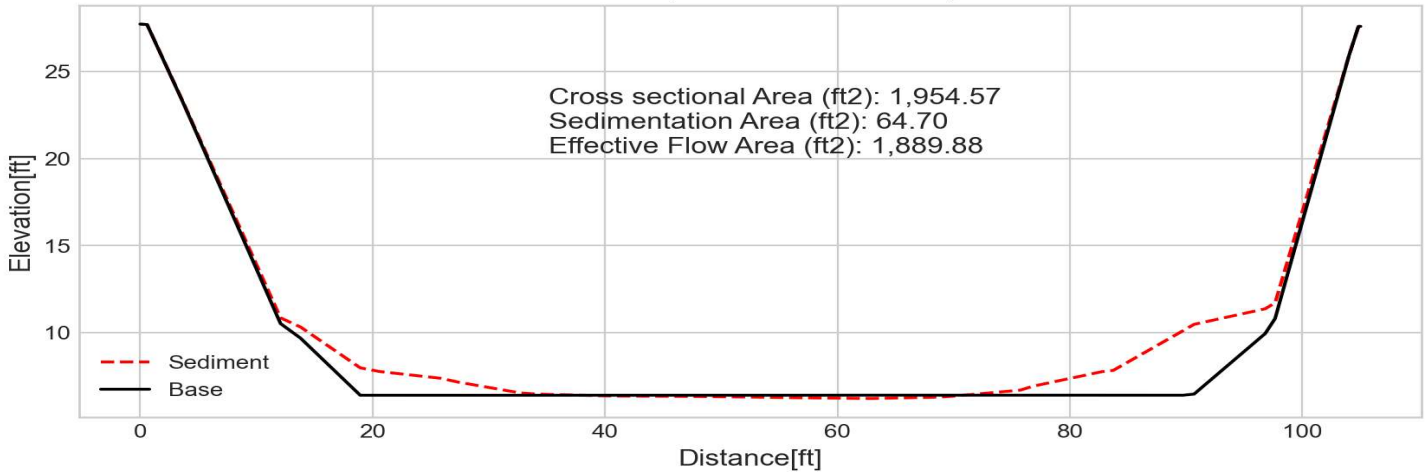
Year 4 (Station: 206+00)



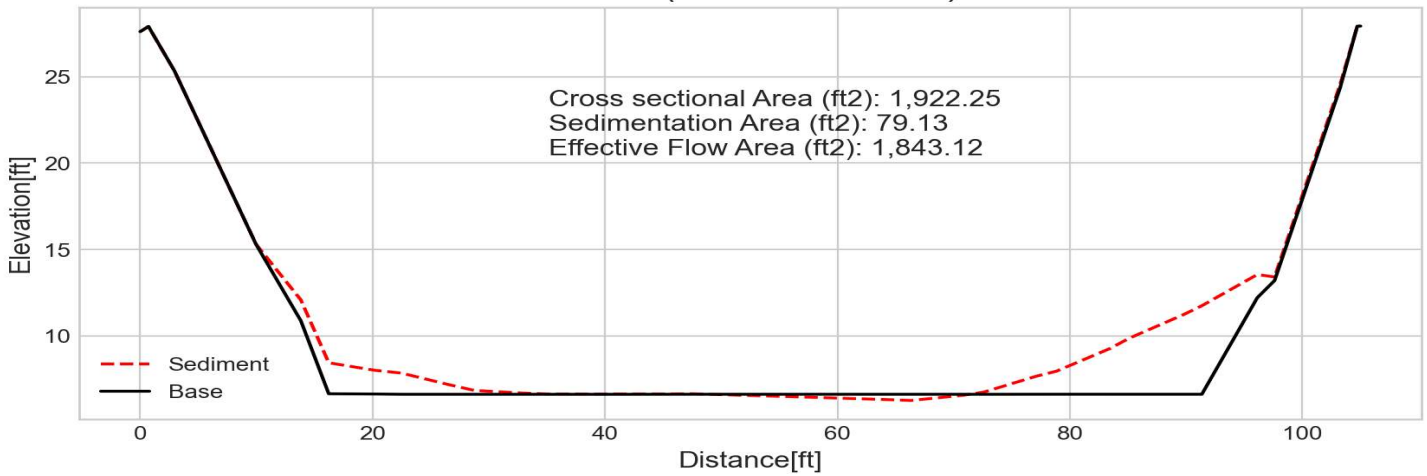
Year 4 (Station: 207+00)



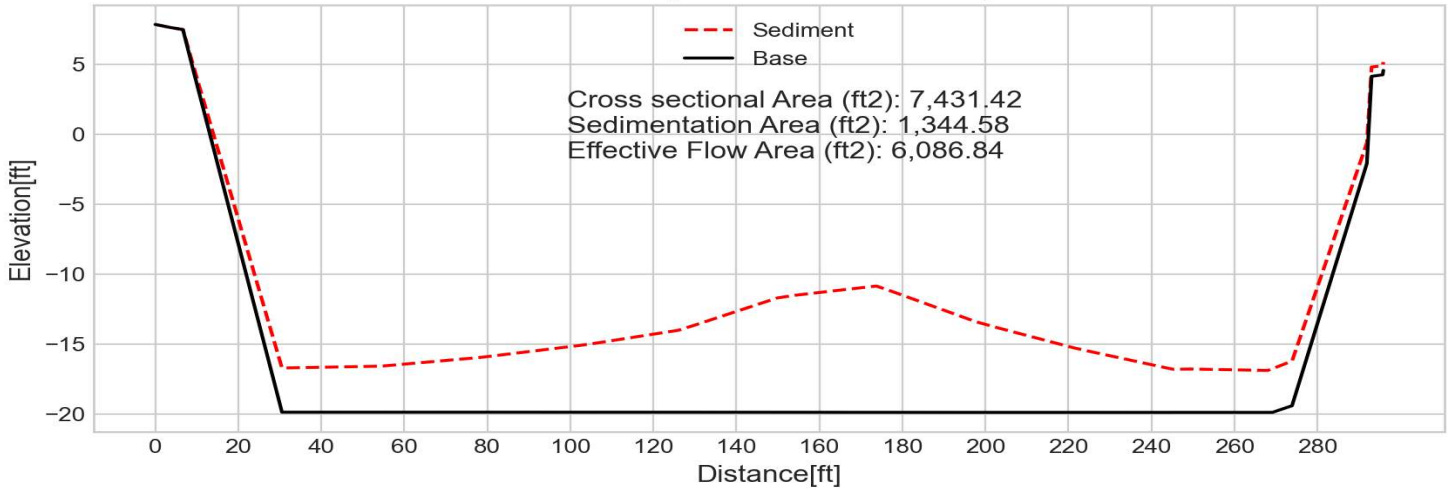
Year 4 (Station: 208+00)



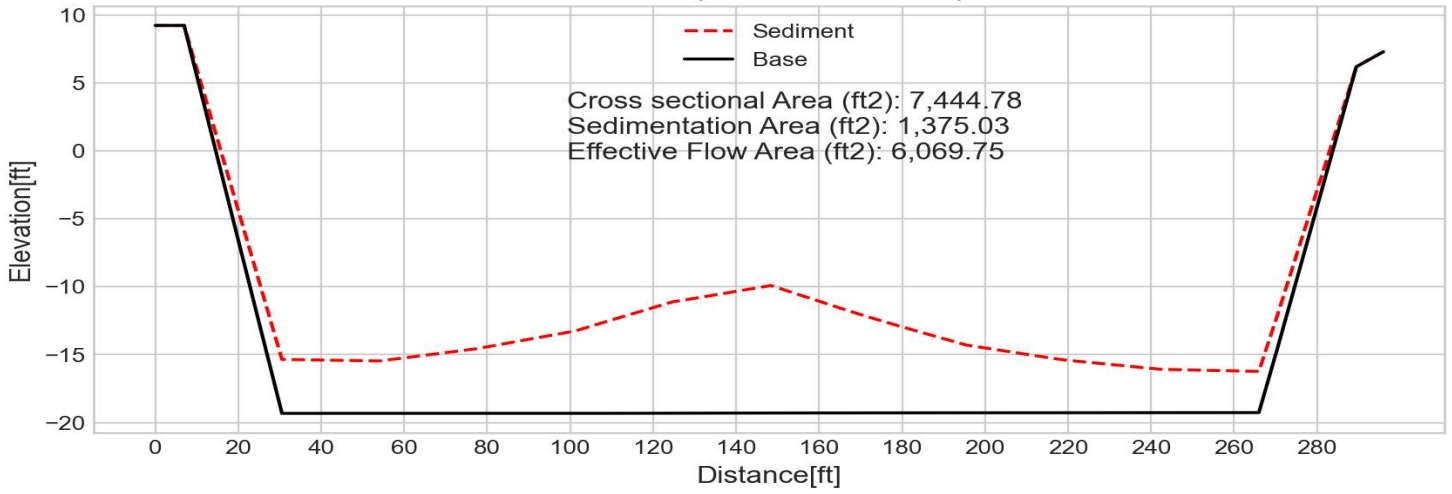
Year 4 (Station: 209+00)



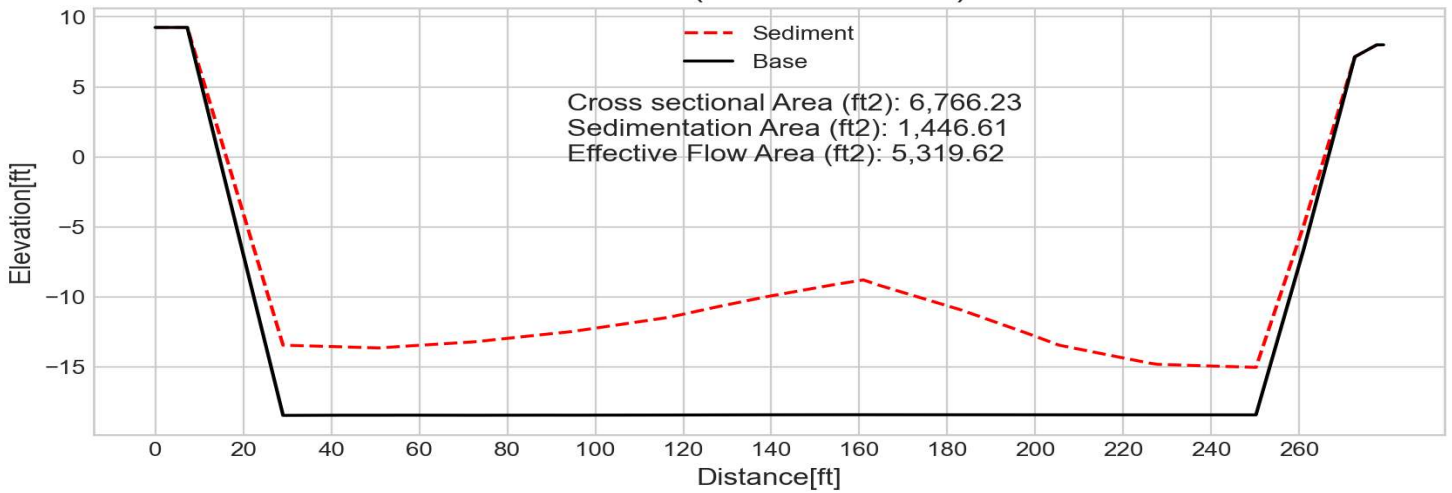
Year 5 (Station: 88+33.21)



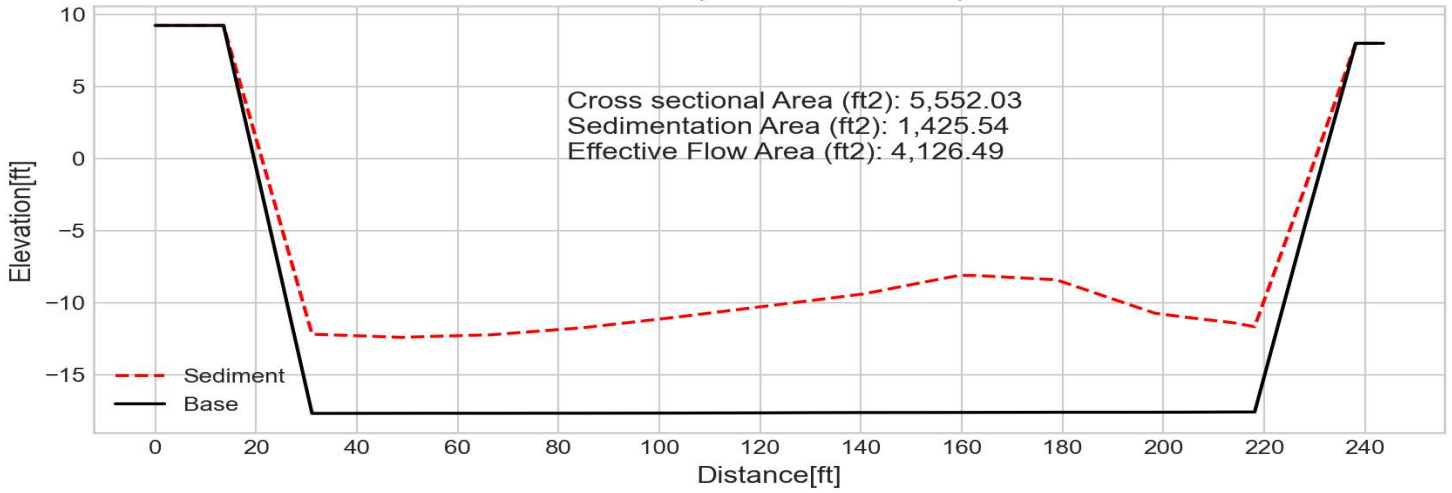
Year 5 (Station: 89+00)



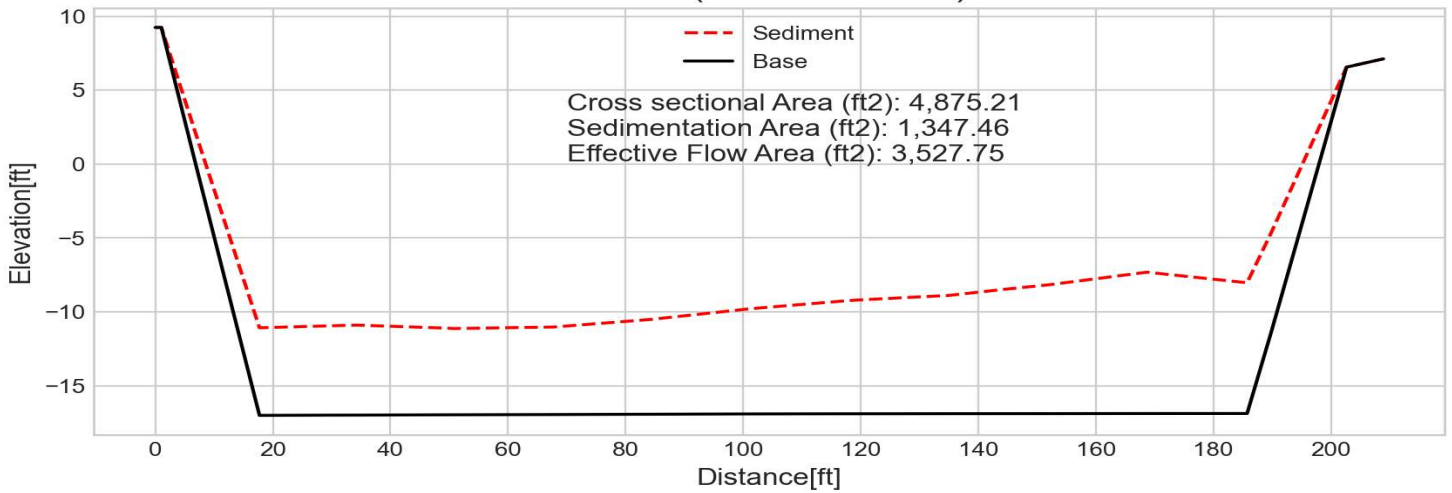
Year 5 (Station: 90+00)



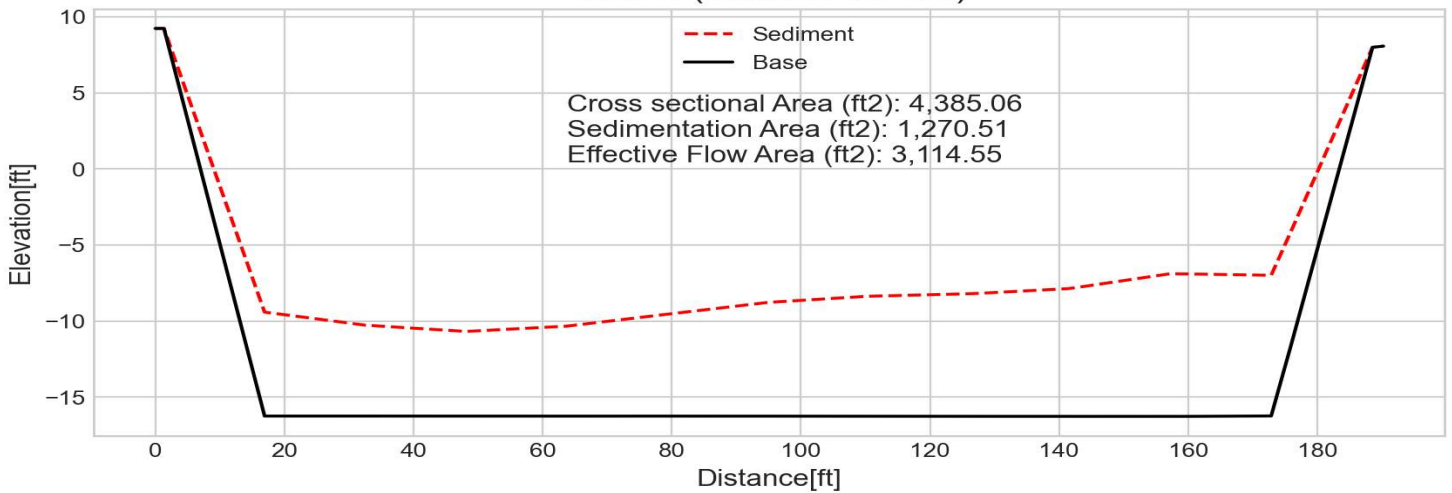
Year 5 (Station: 91+00)



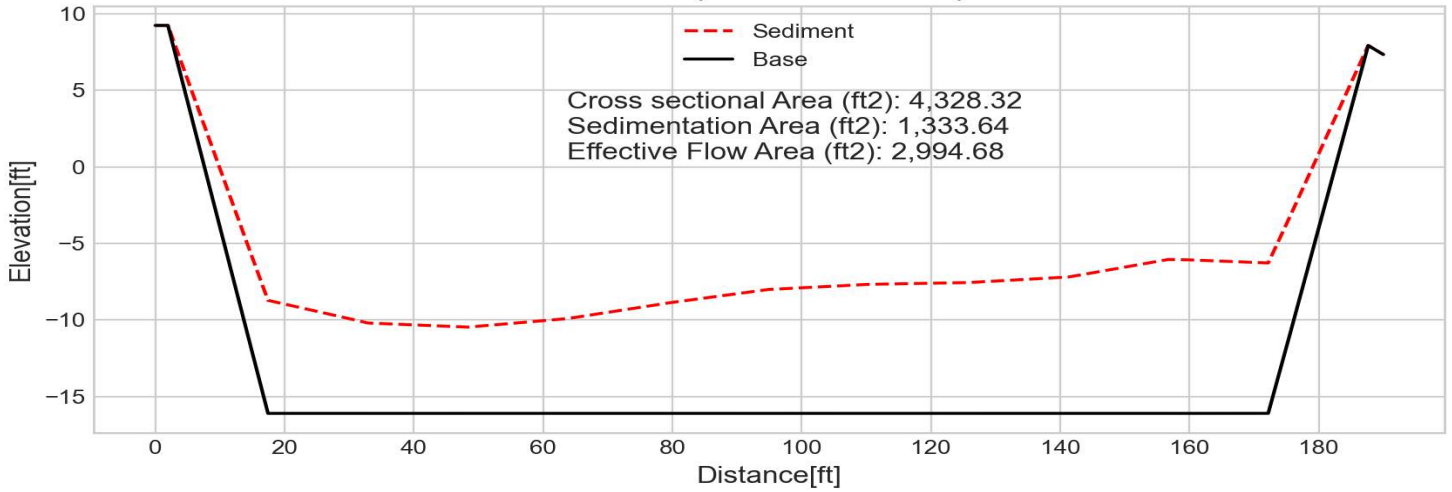
Year 5 (Station: 92+00)



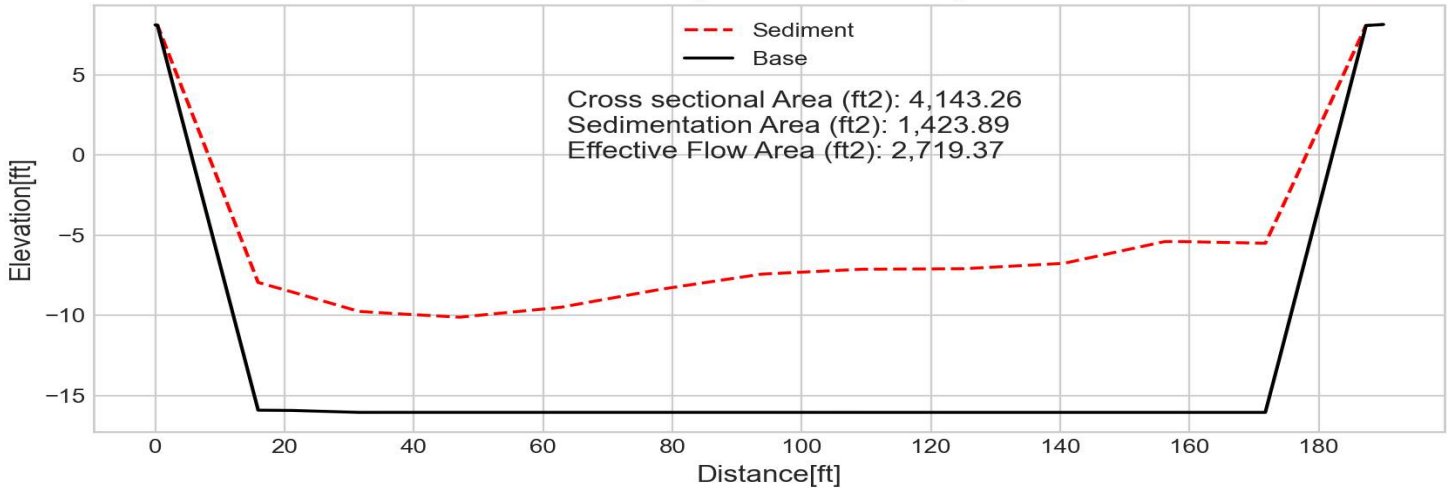
Year 5 (Station: 93+00)



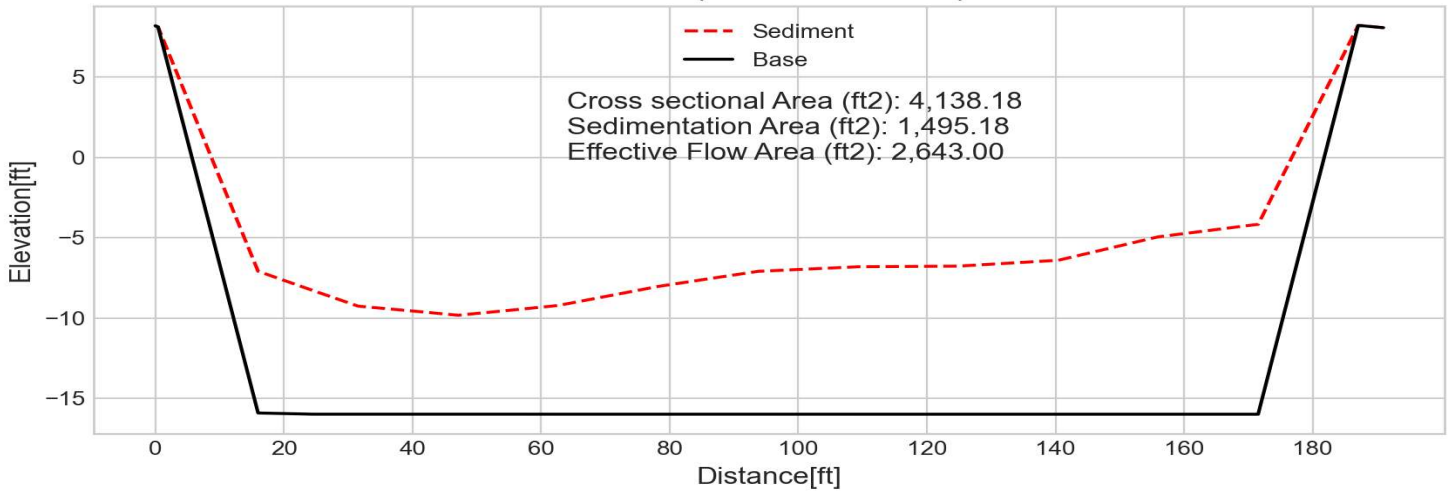
Year 5 (Station: 94+00)



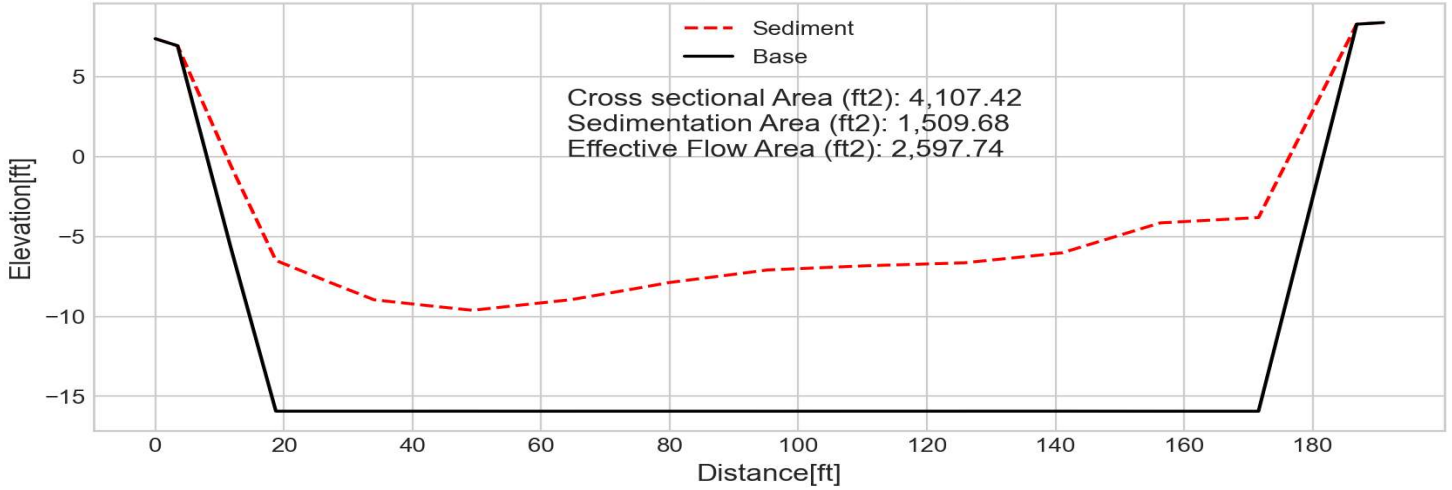
Year 5 (Station: 95+00)



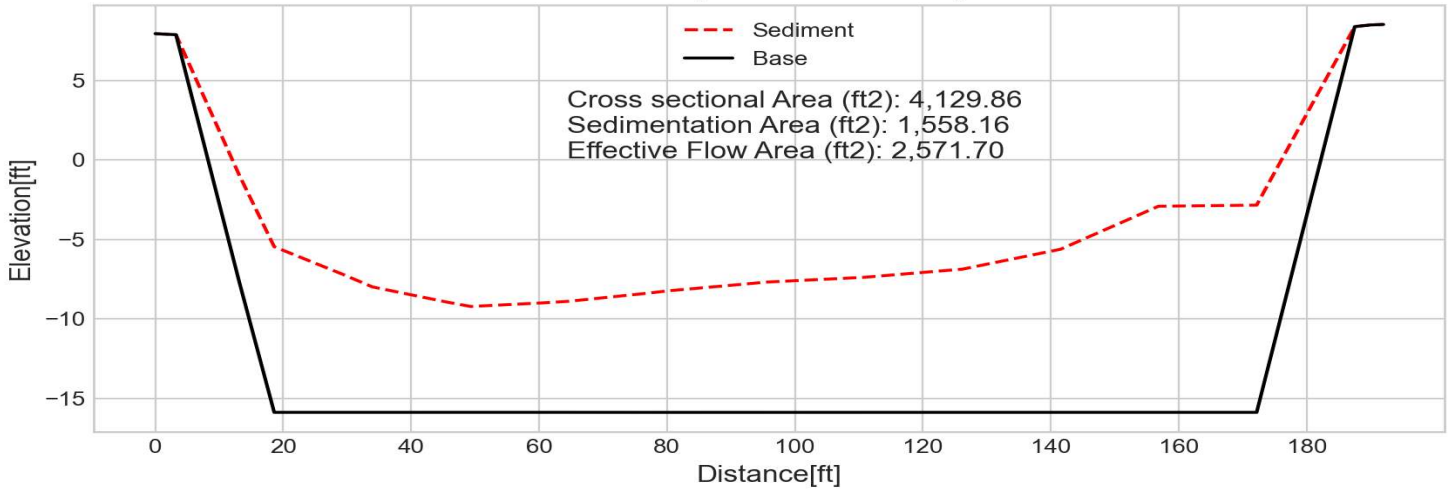
Year 5 (Station: 96+00)



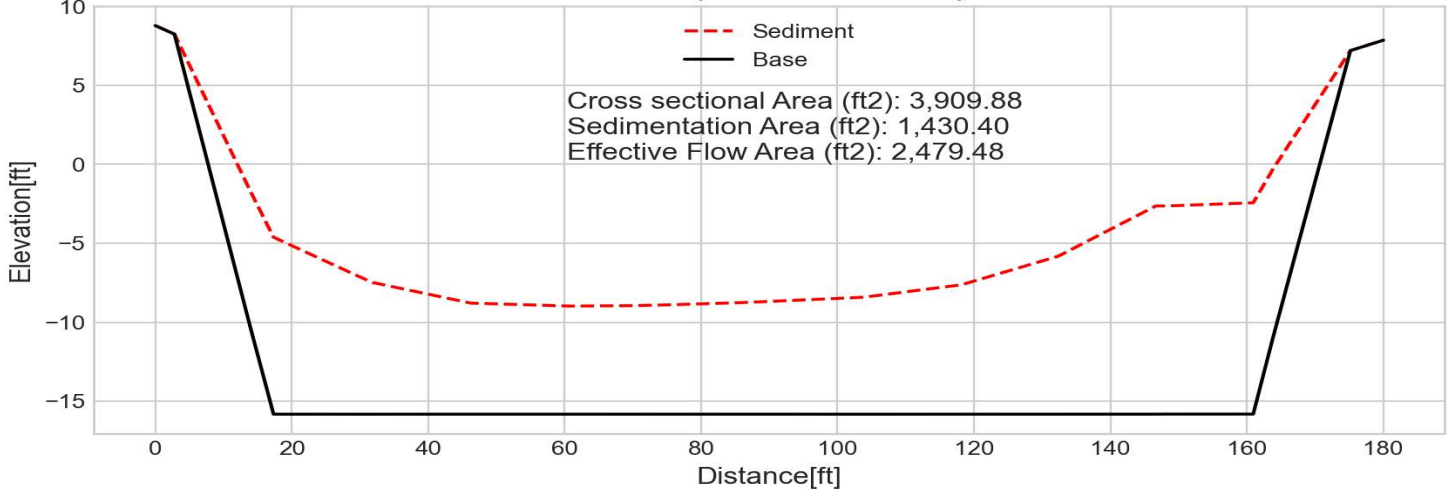
Year 5 (Station: 97+00)



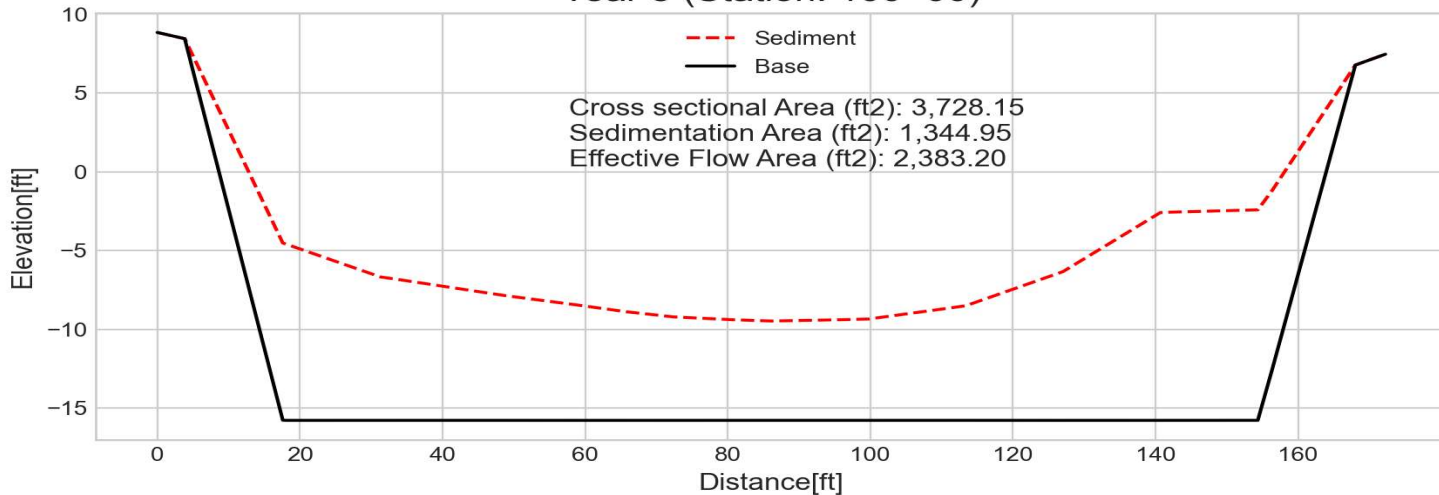
Year 5 (Station: 98+00)



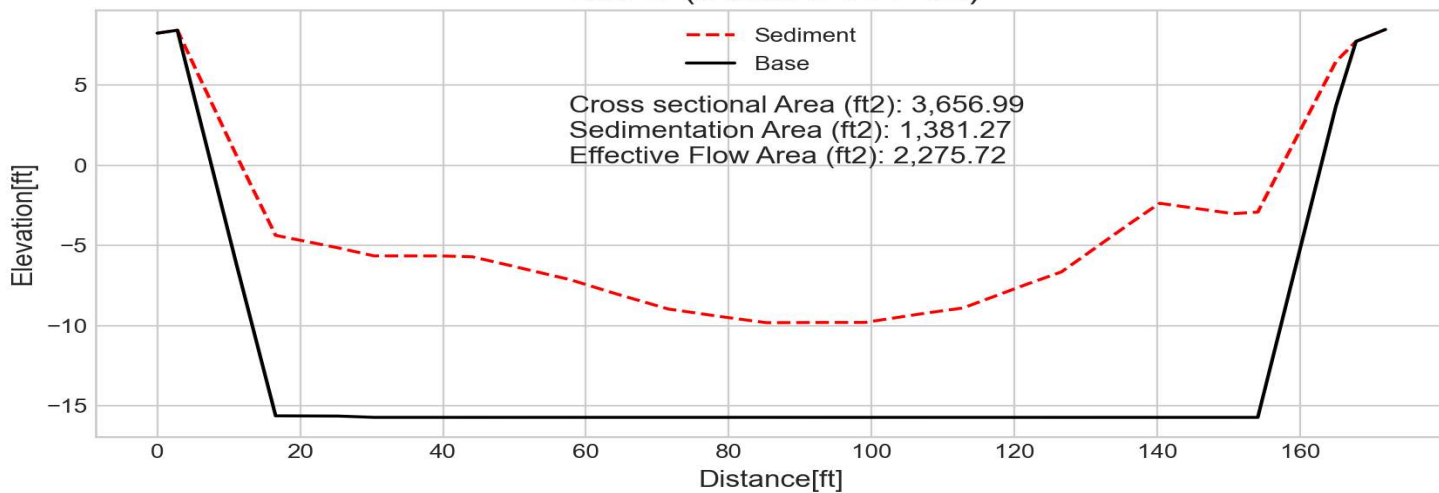
Year 5 (Station: 99+00)



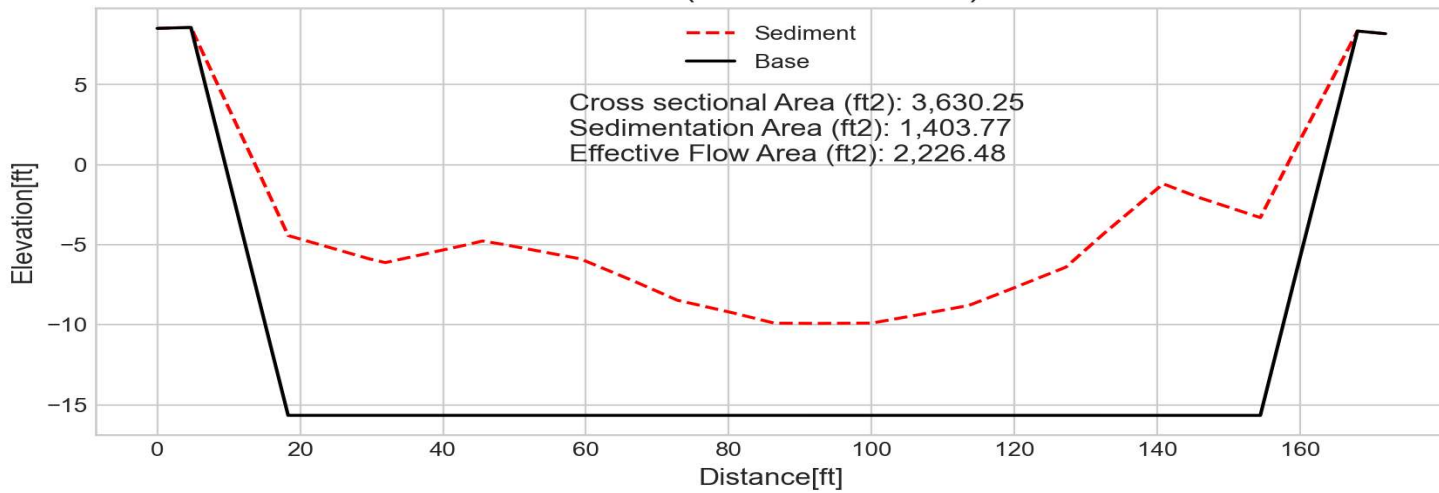
Year 5 (Station: 100+00)



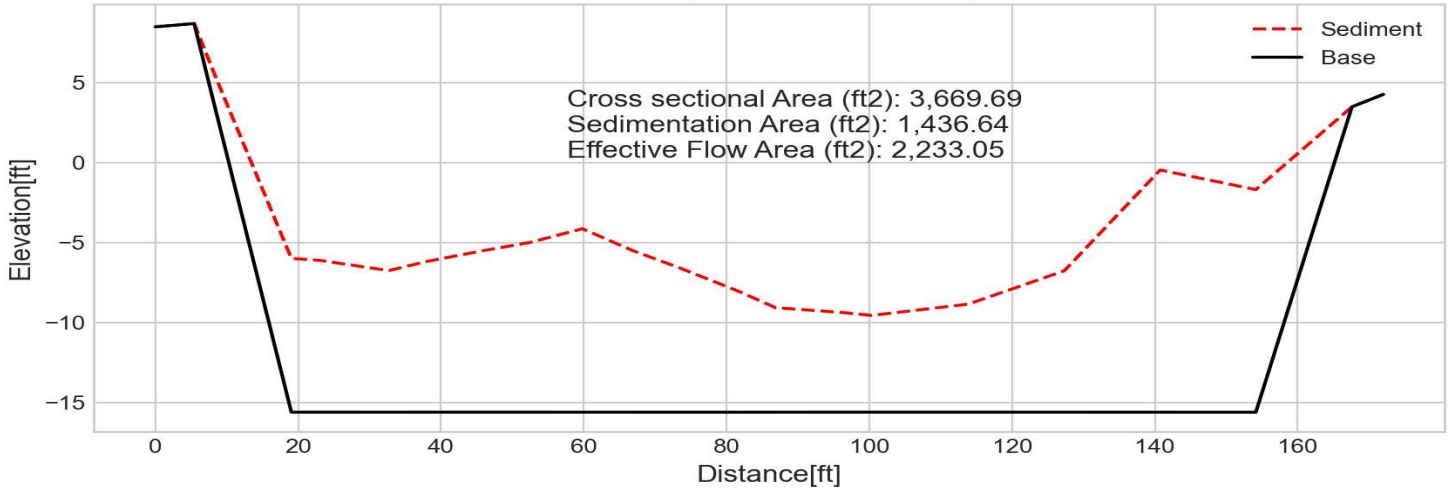
Year 5 (Station: 101+00)



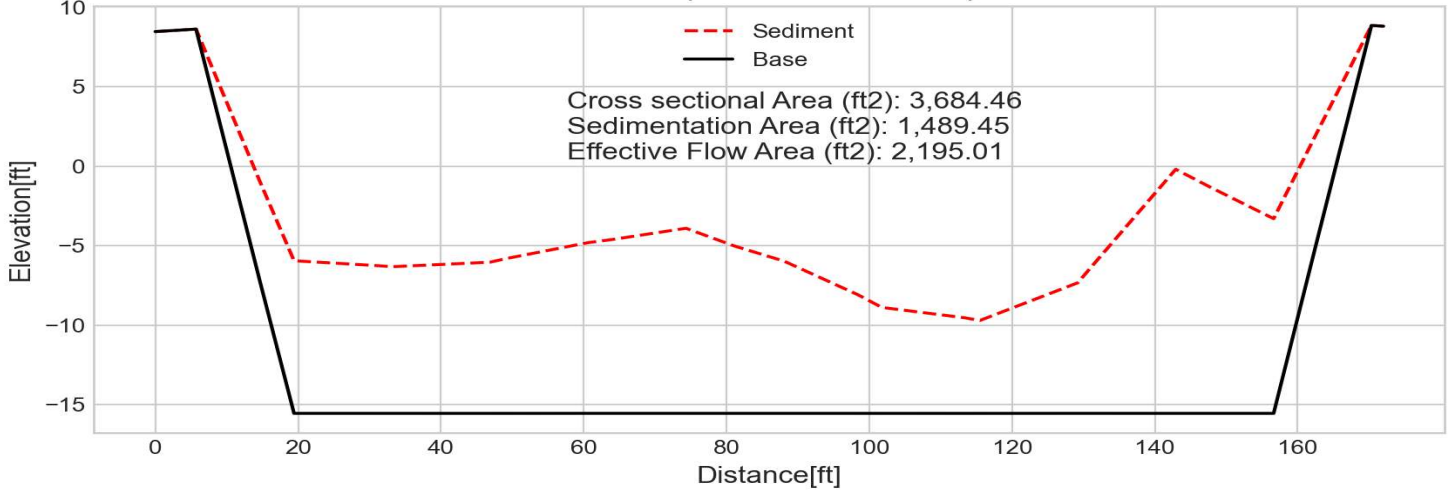
Year 5 (Station: 102+00)



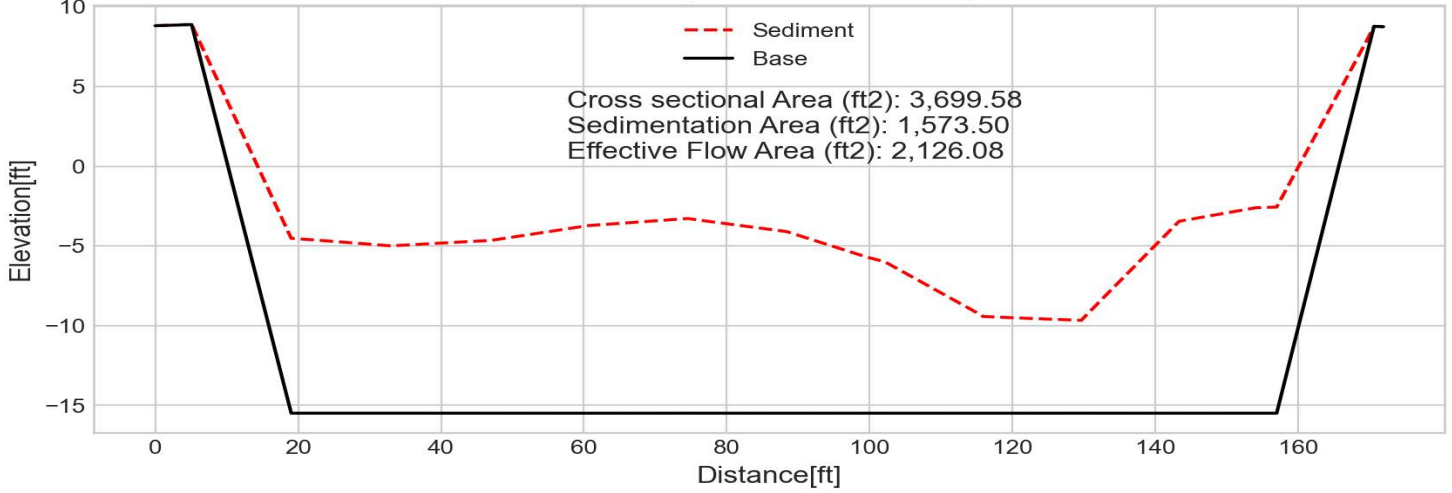
Year 5 (Station: 103+00)



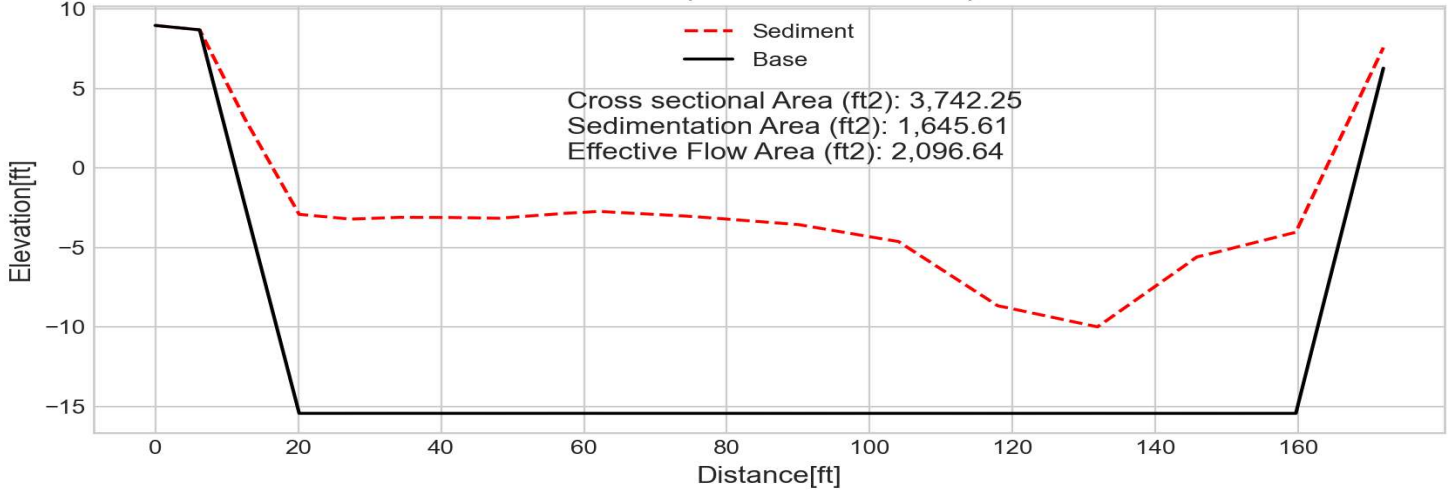
Year 5 (Station: 104+00)



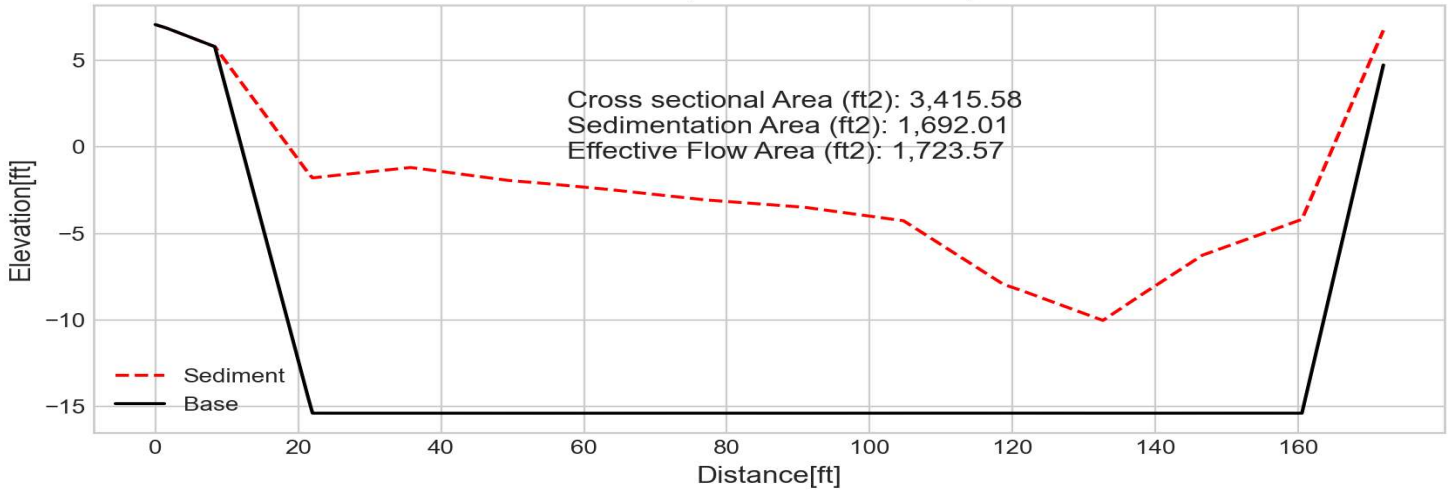
Year 5 (Station: 105+00)



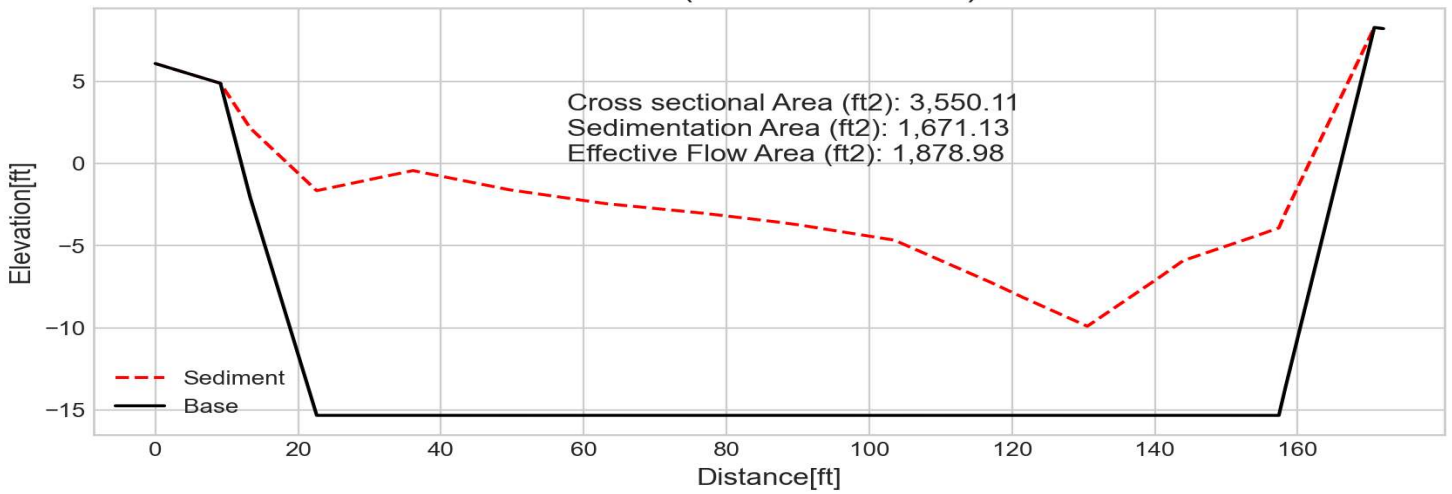
Year 5 (Station: 106+00)



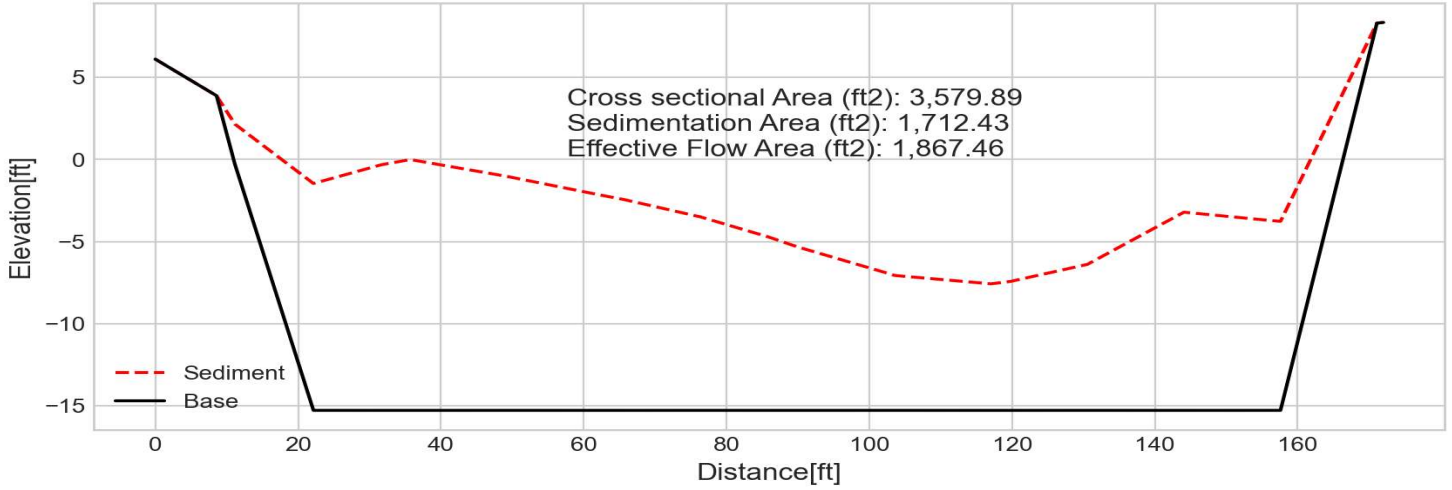
Year 5 (Station: 107+00)



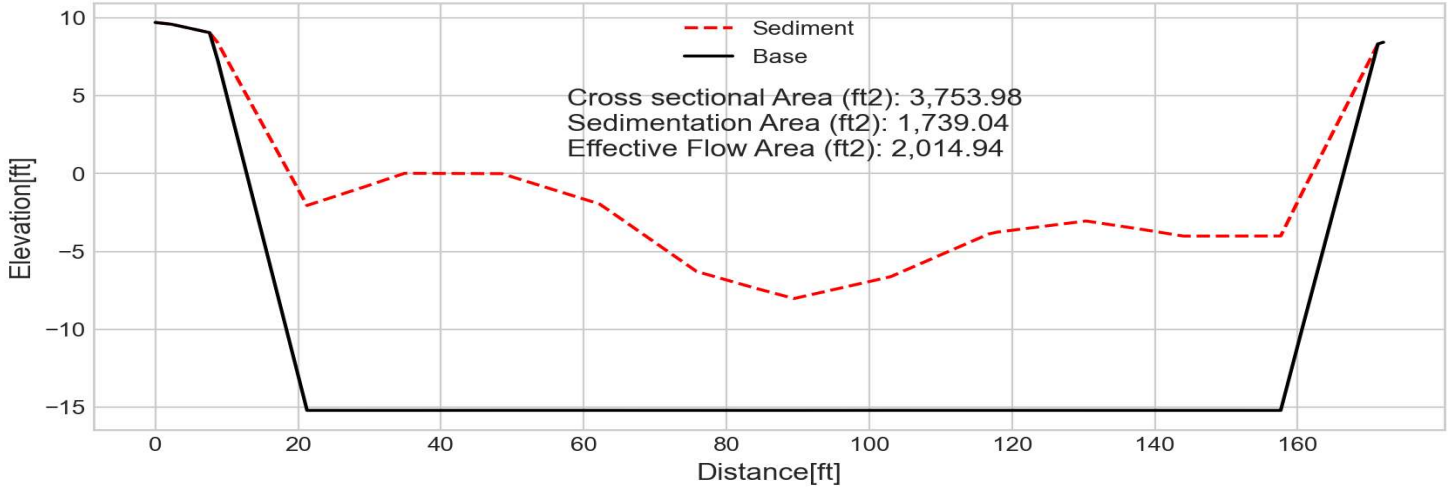
Year 5 (Station: 108+00)



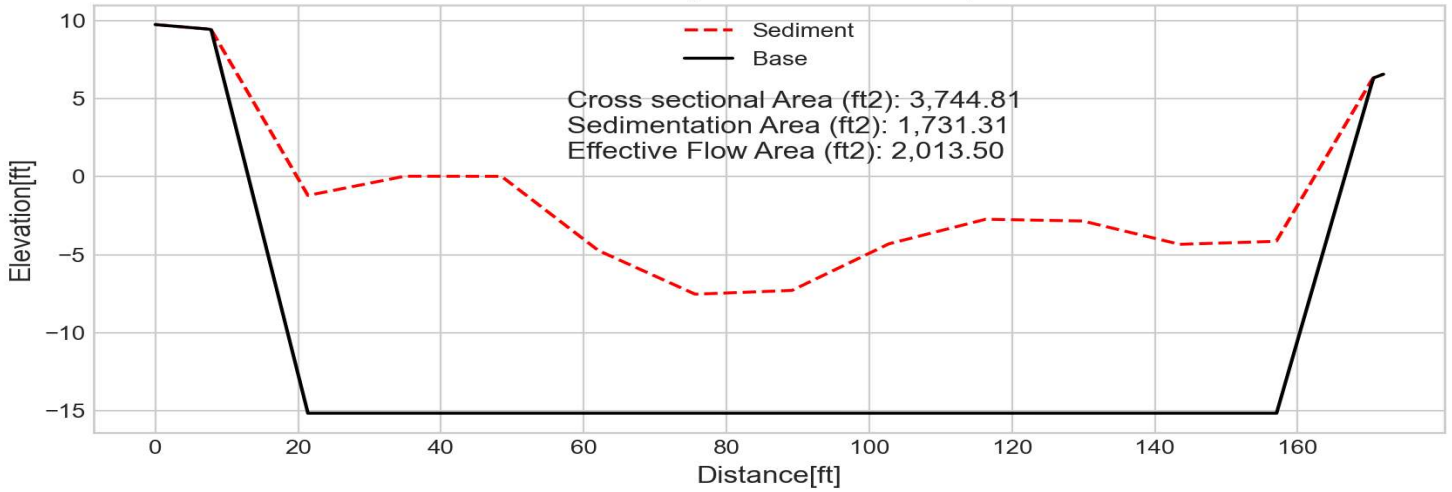
Year 5 (Station: 109+00)



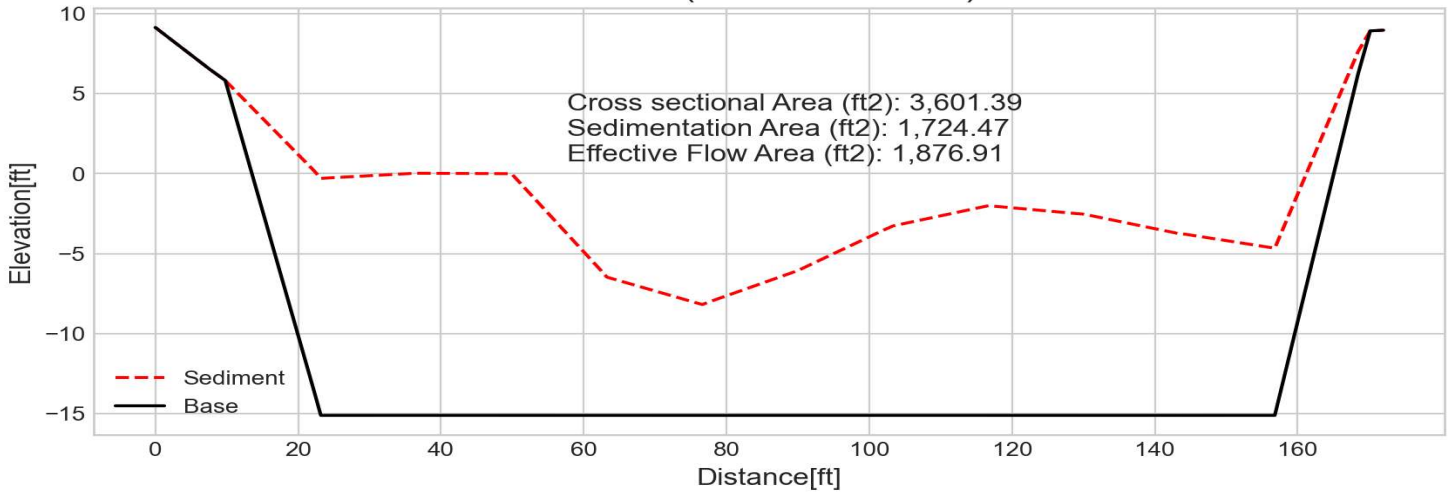
Year 5 (Station: 110+00)



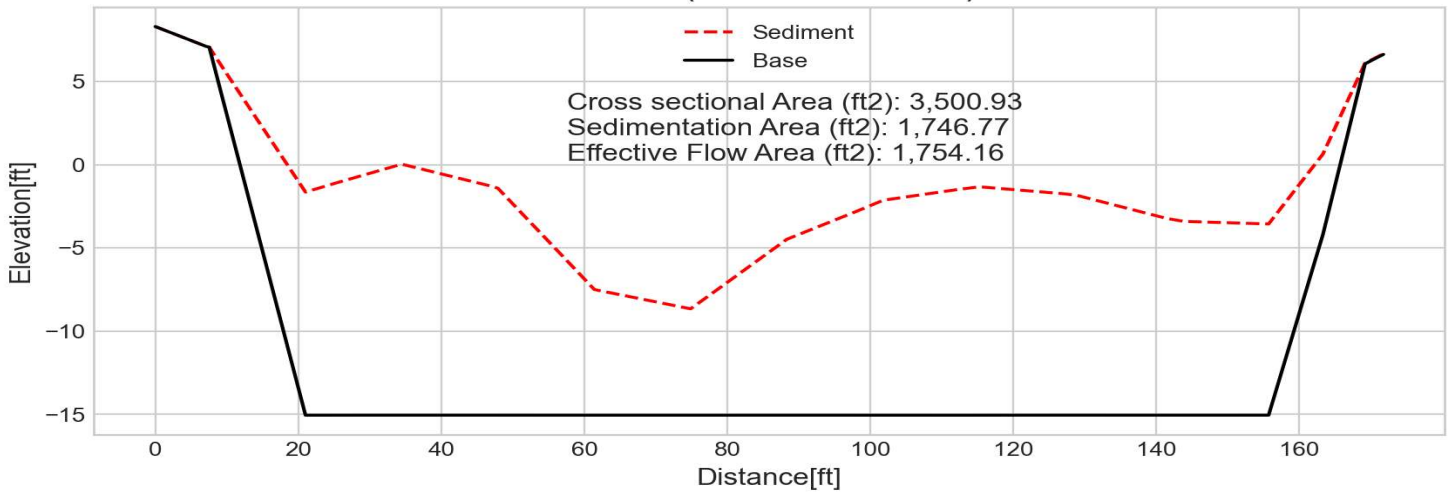
Year 5 (Station: 111+00)



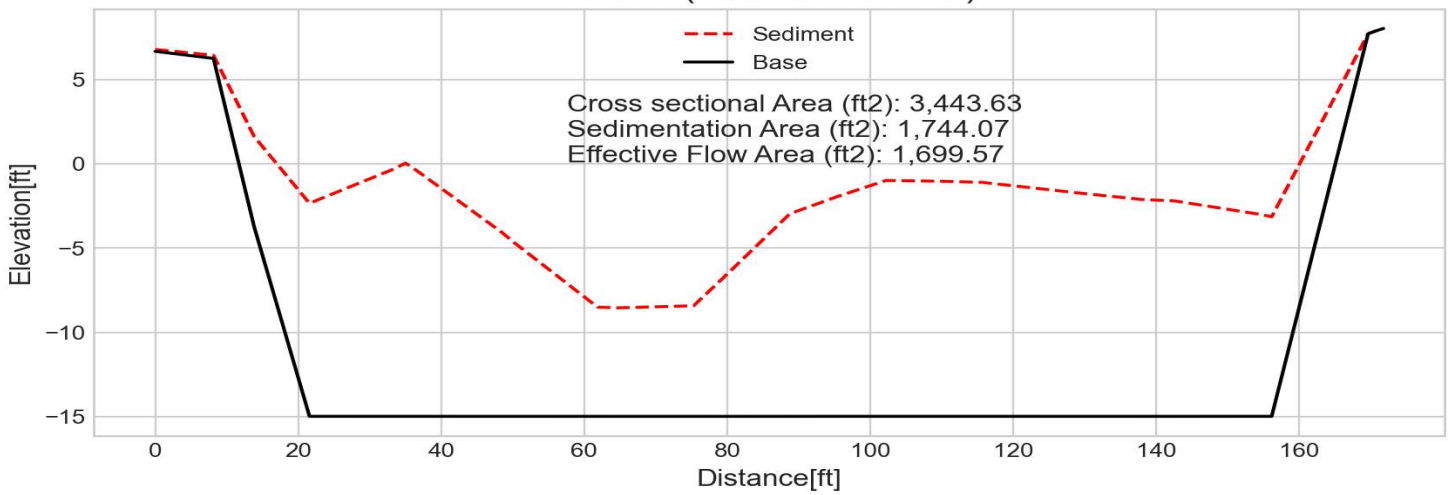
Year 5 (Station: 112+00)



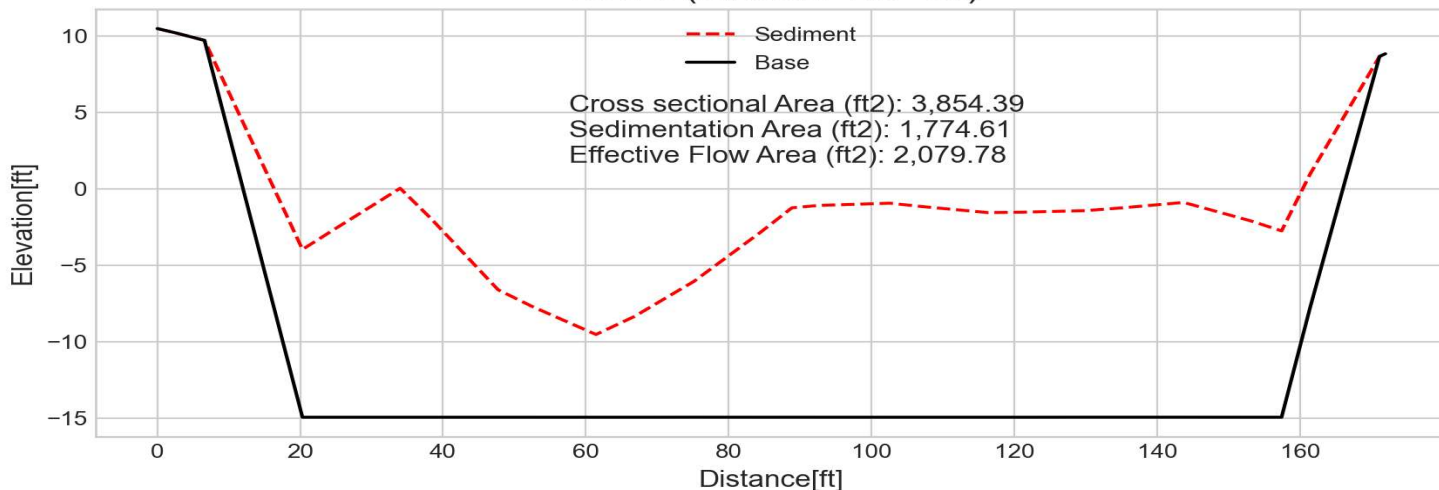
Year 5 (Station: 113+00)



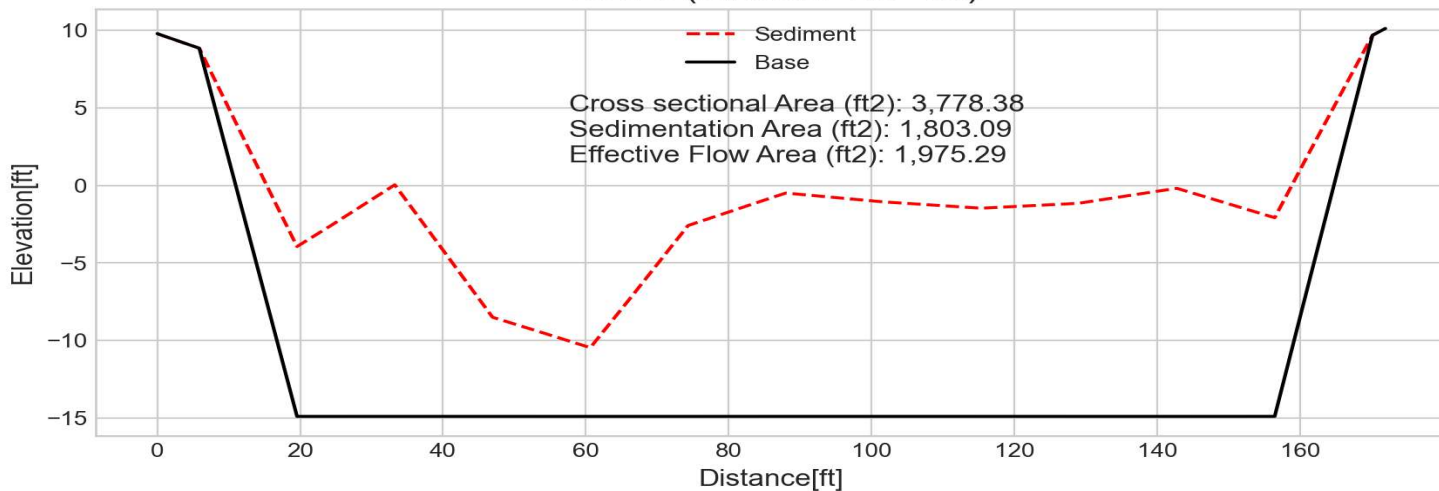
Year 5 (Station: 114+00)



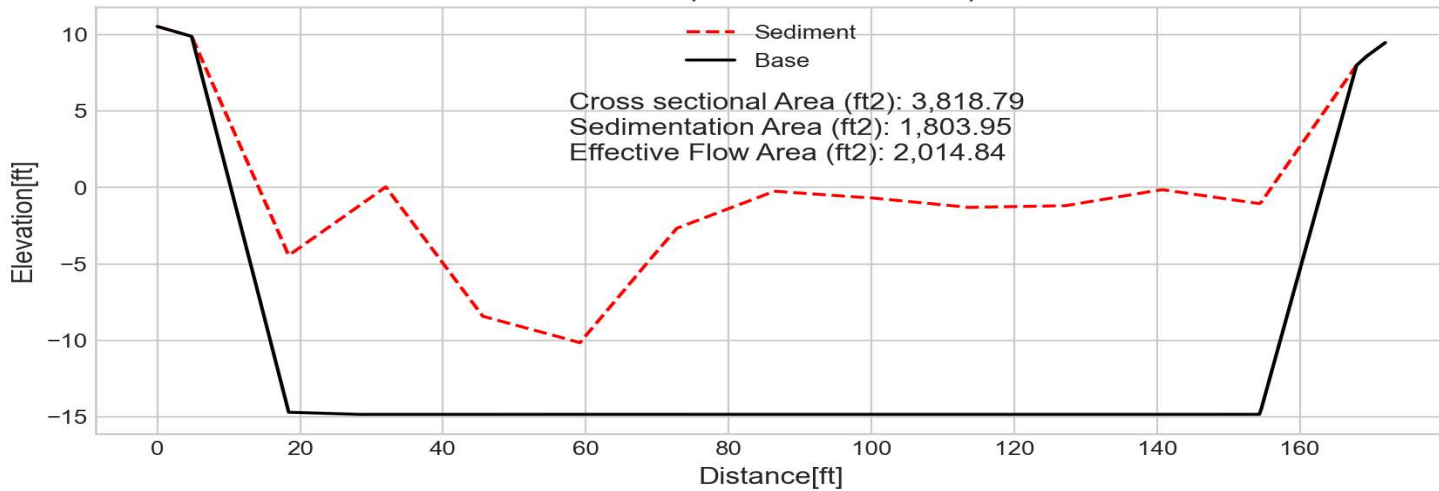
Year 5 (Station: 115+00)



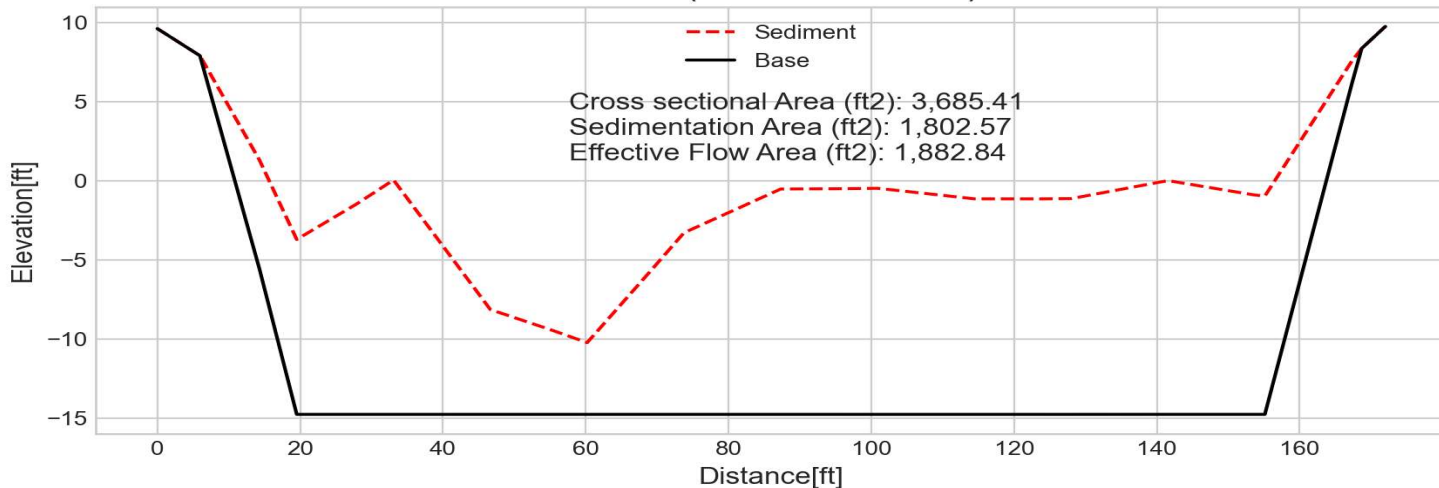
Year 5 (Station: 116+00)



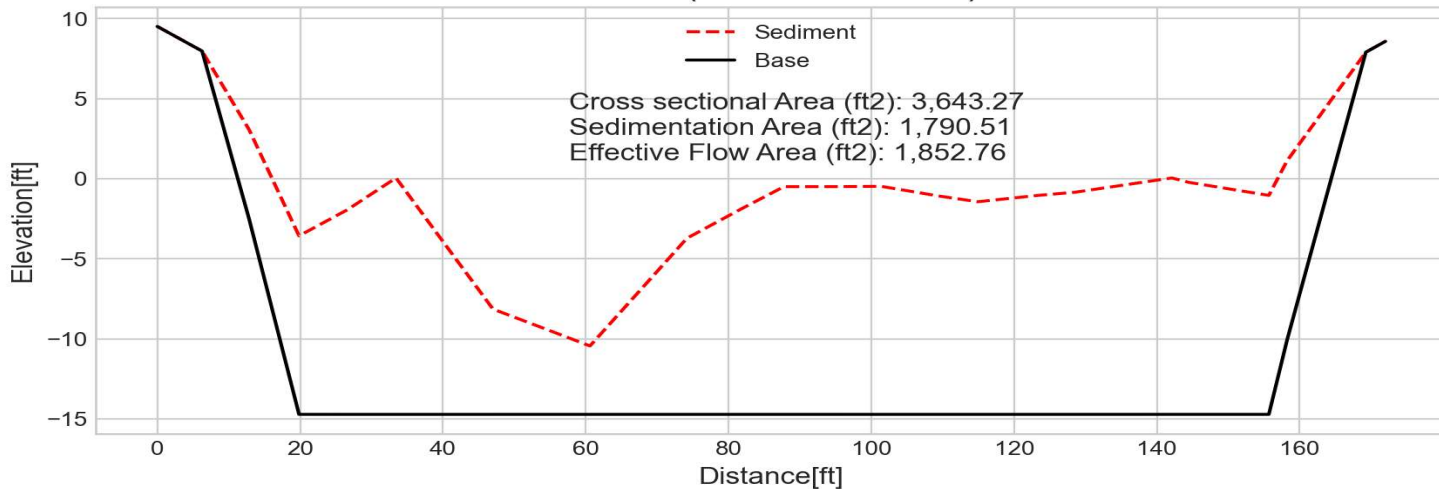
Year 5 (Station: 117+00)



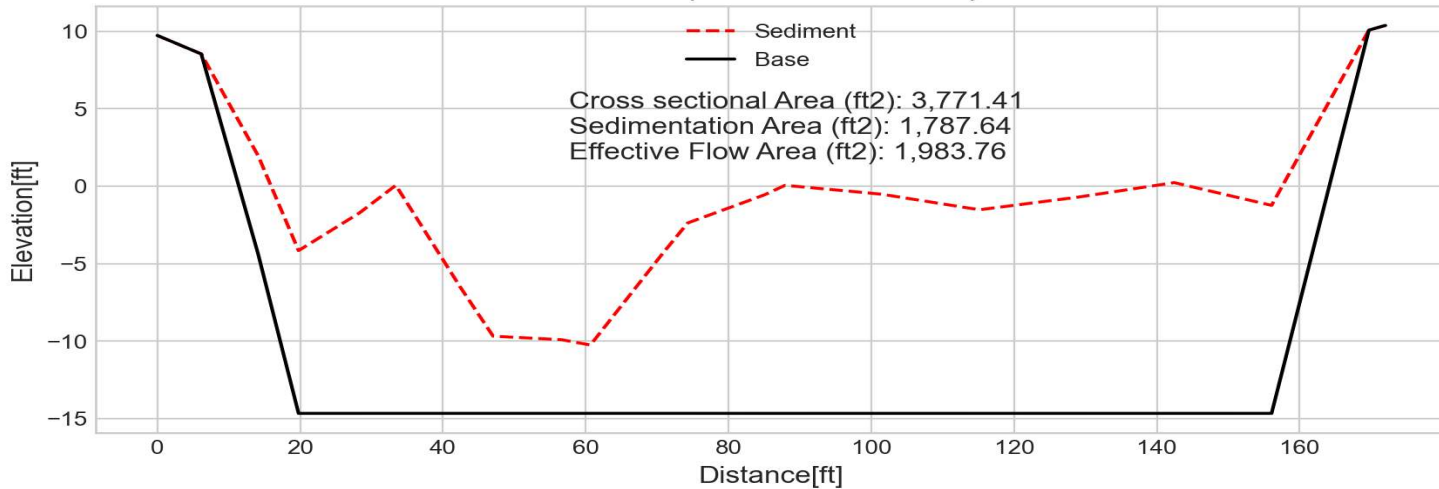
Year 5 (Station: 118+00)



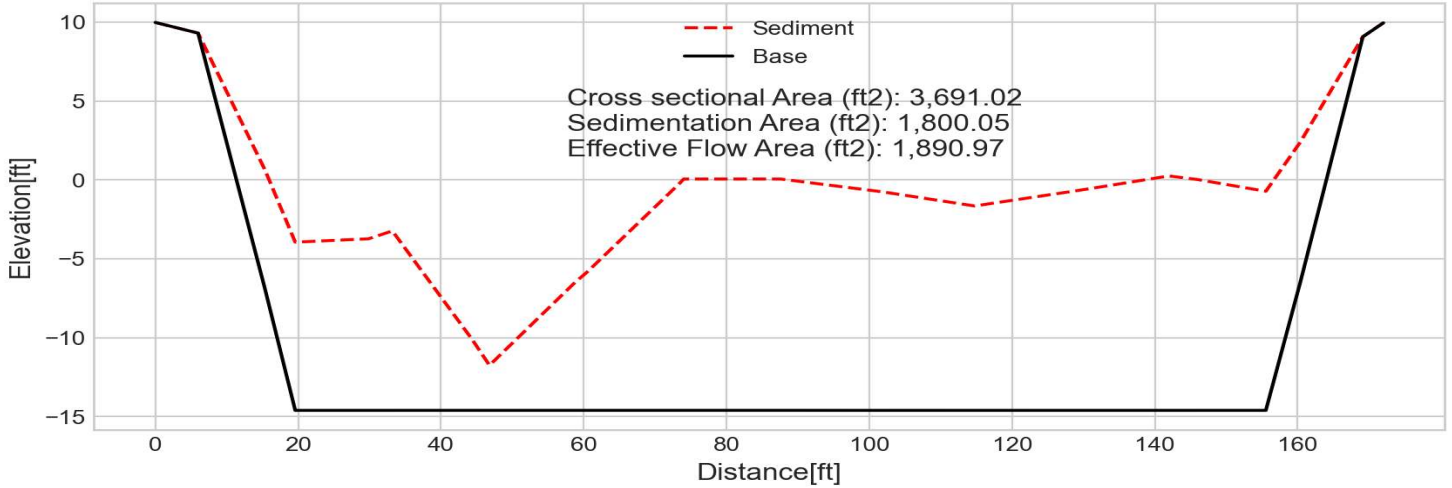
Year 5 (Station: 119+00)



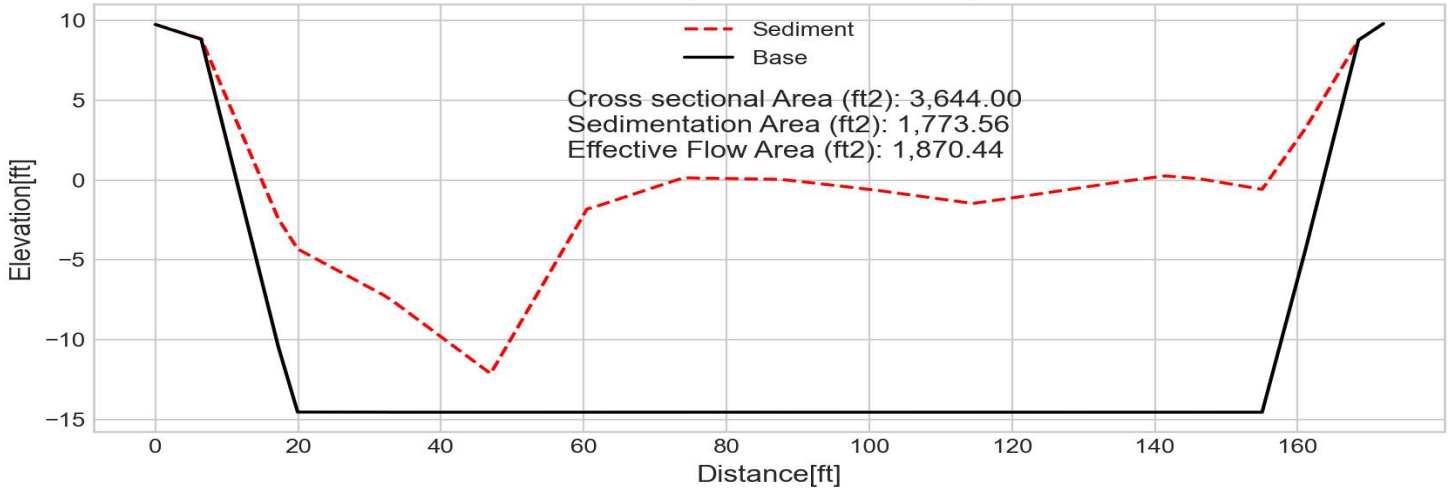
Year 5 (Station: 120+00)



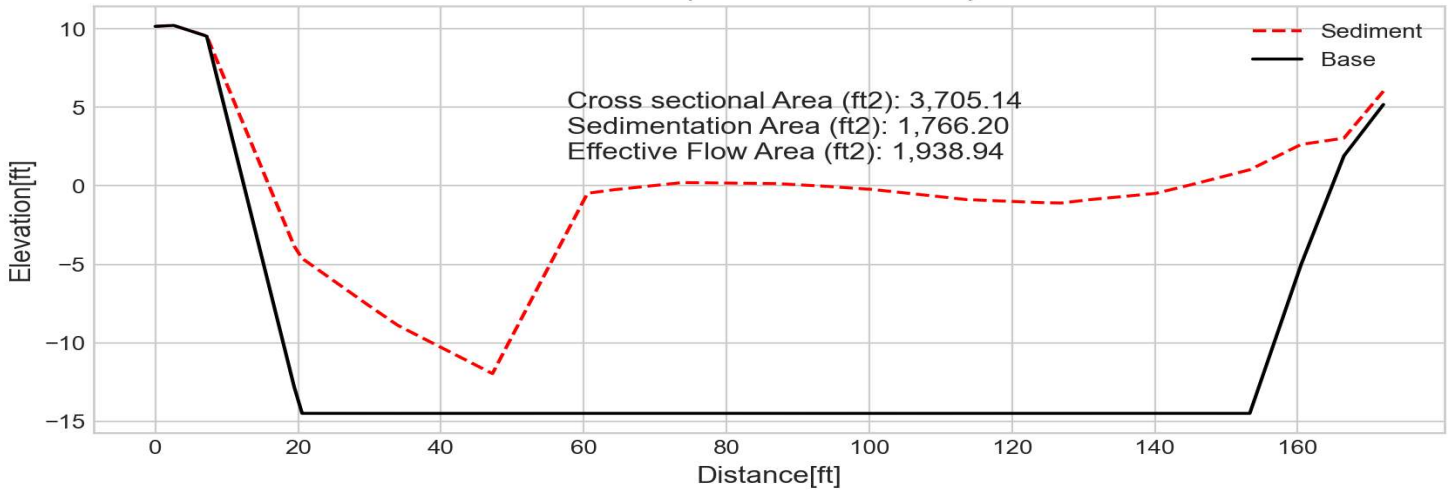
Year 5 (Station: 121+00)



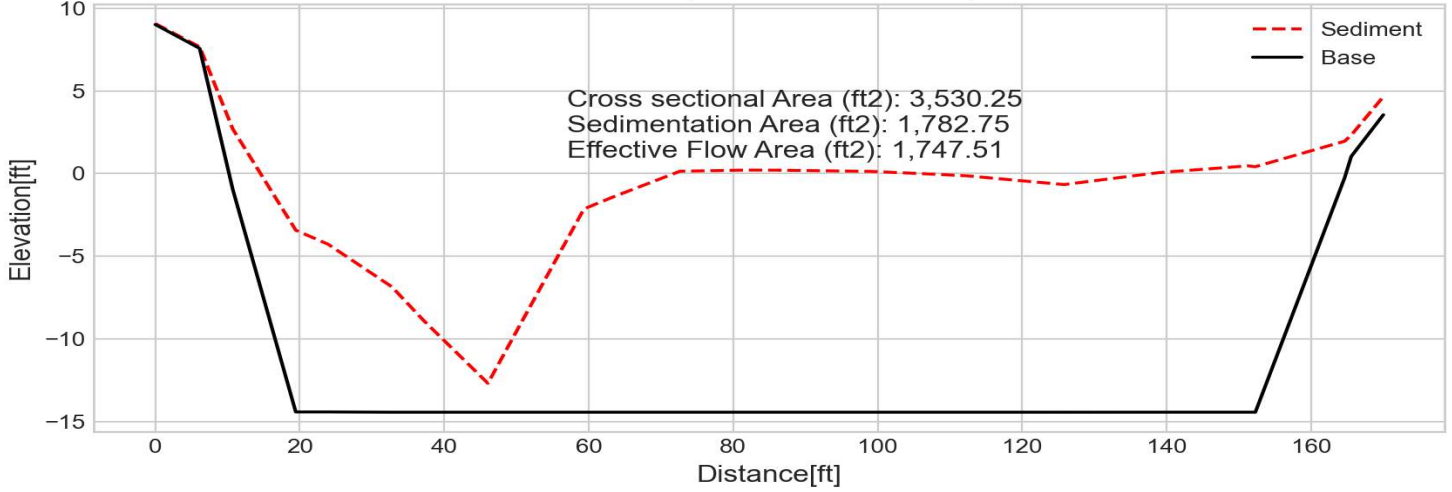
Year 5 (Station: 122+00)



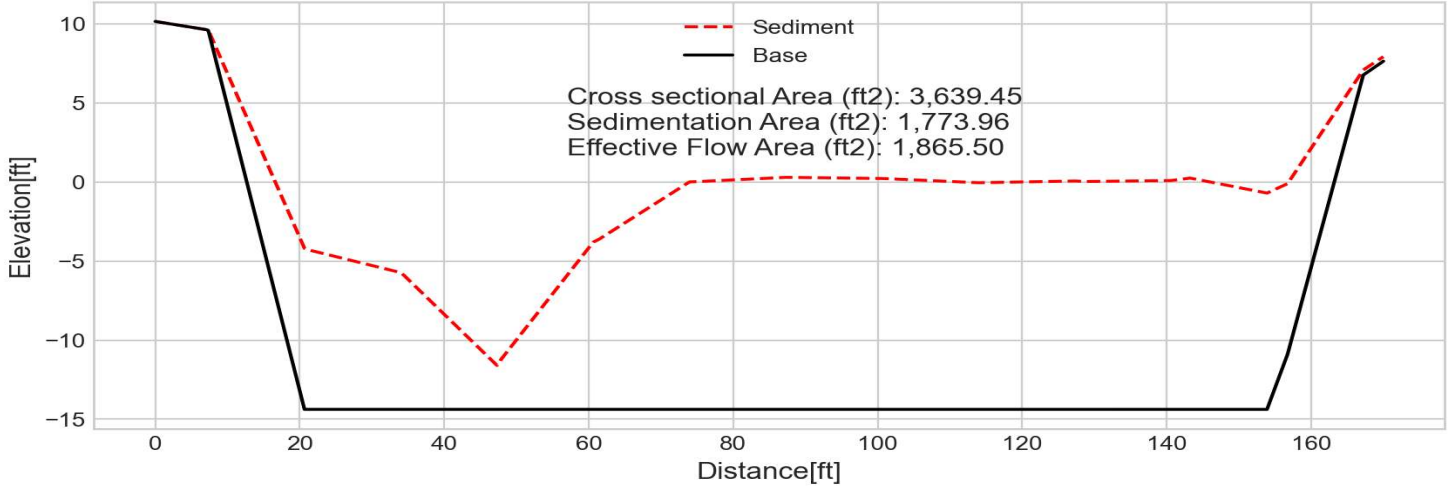
Year 5 (Station: 123+00)



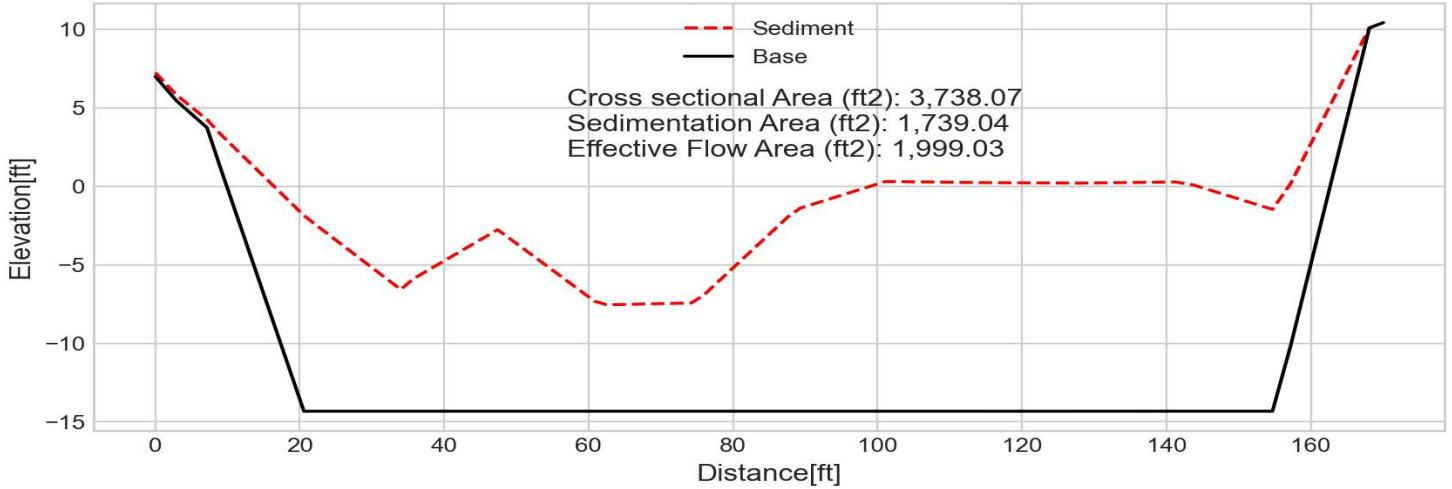
Year 5 (Station: 124+00)



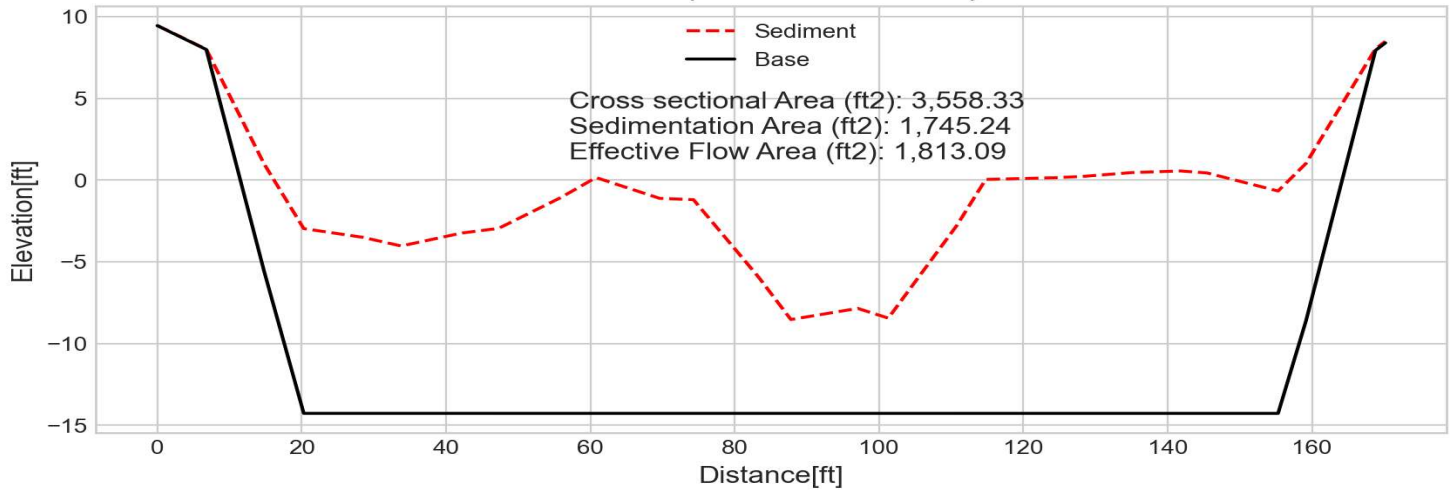
Year 5 (Station: 125+00)



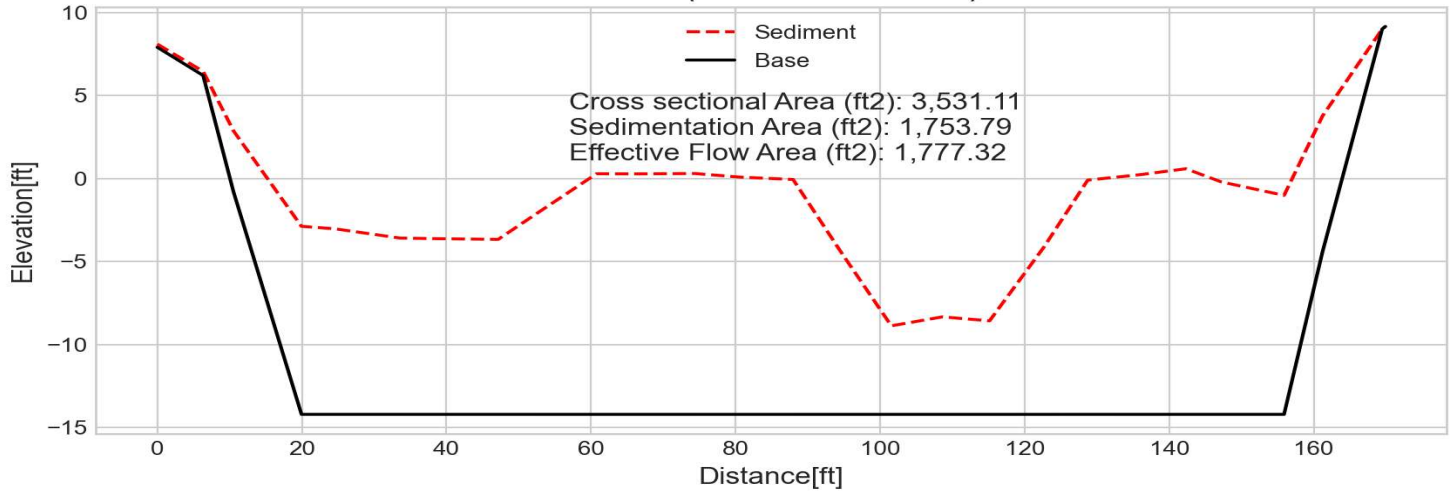
Year 5 (Station: 126+00)



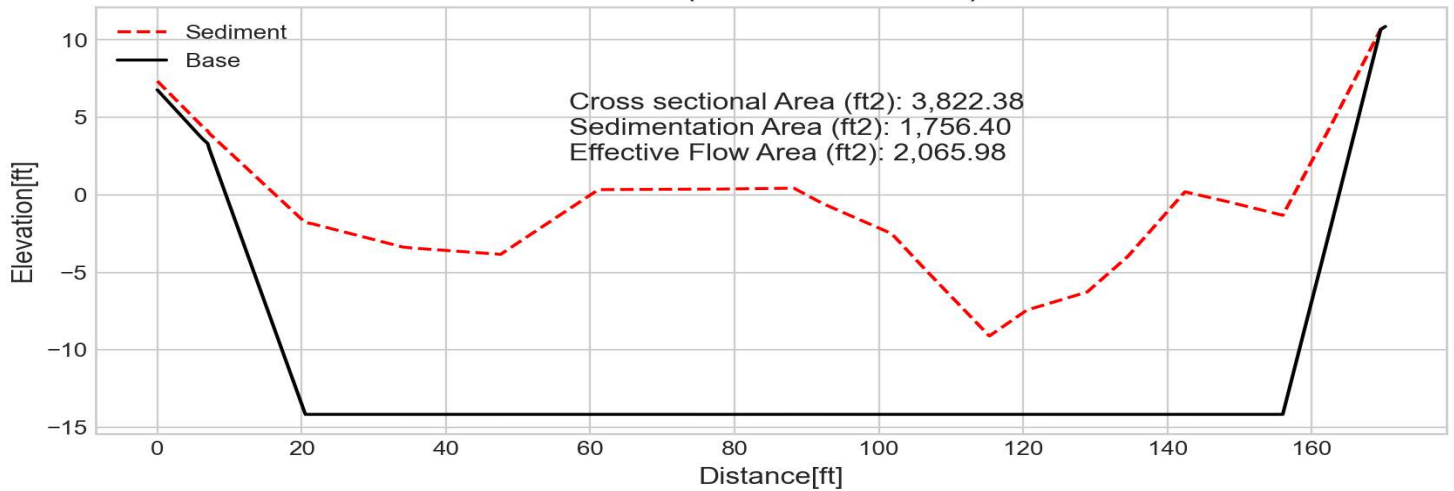
Year 5 (Station: 127+00)



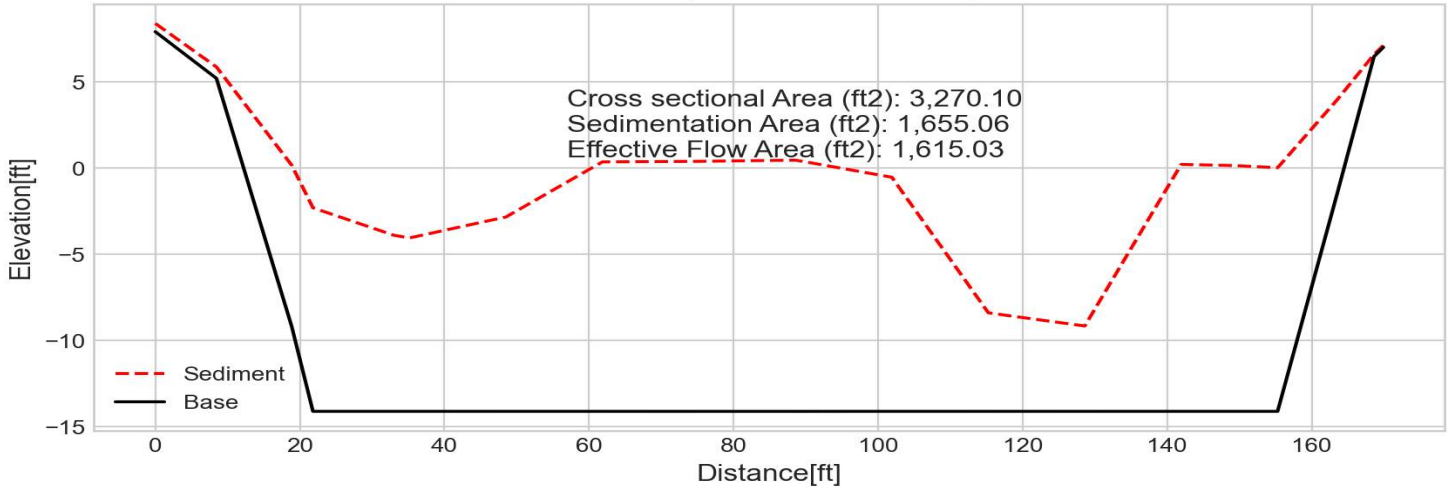
Year 5 (Station: 128+00)



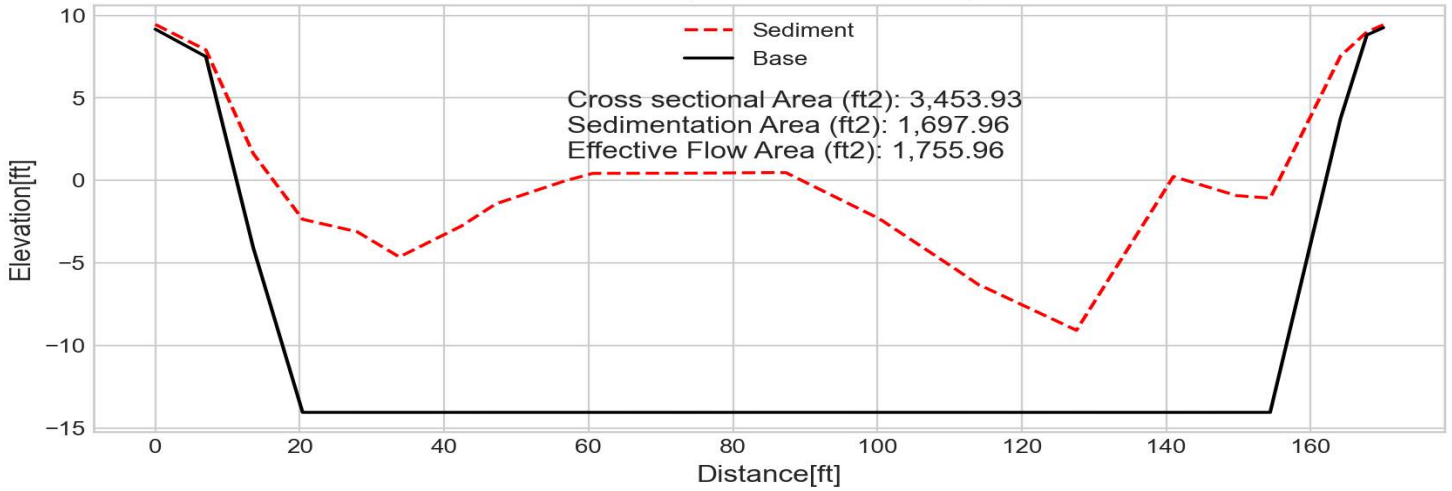
Year 5 (Station: 129+00)



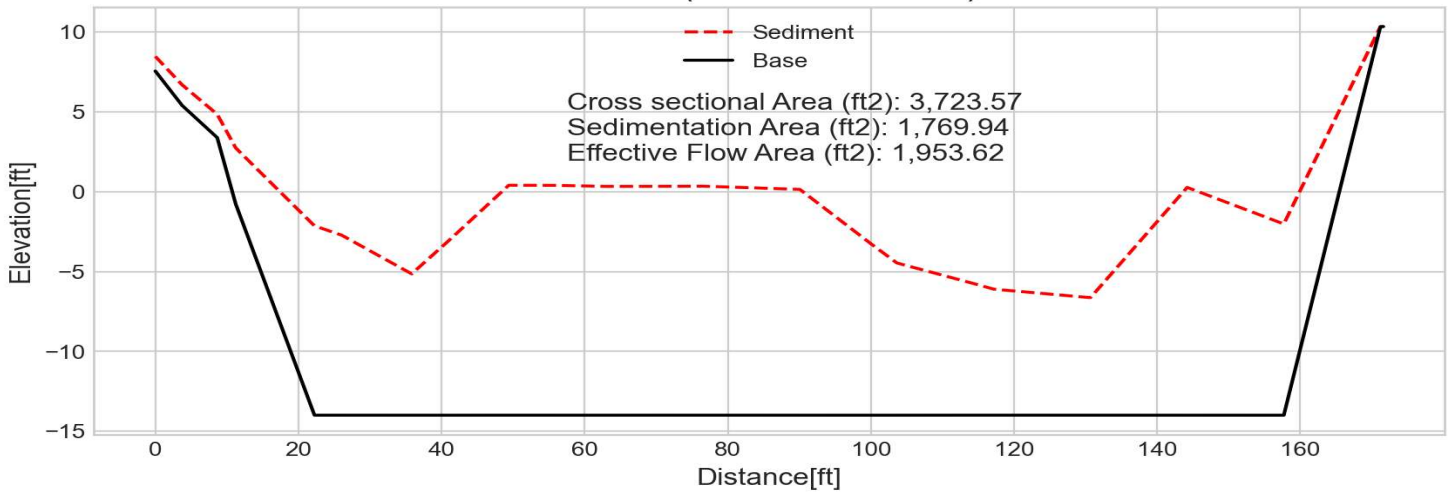
Year 5 (Station: 130+00)



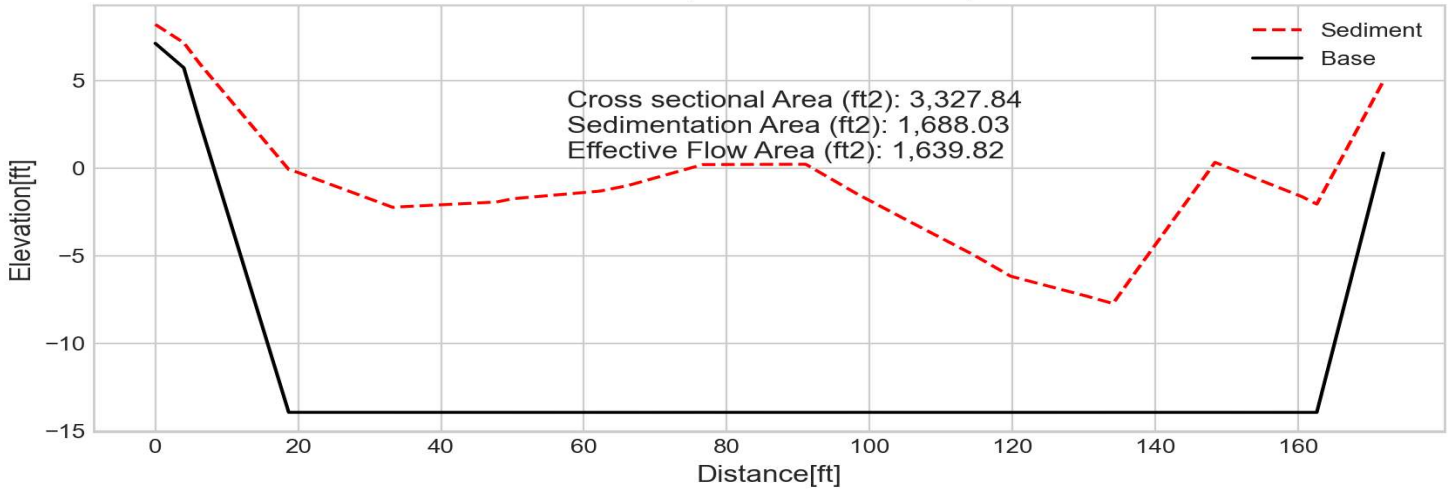
Year 5 (Station: 131+00)



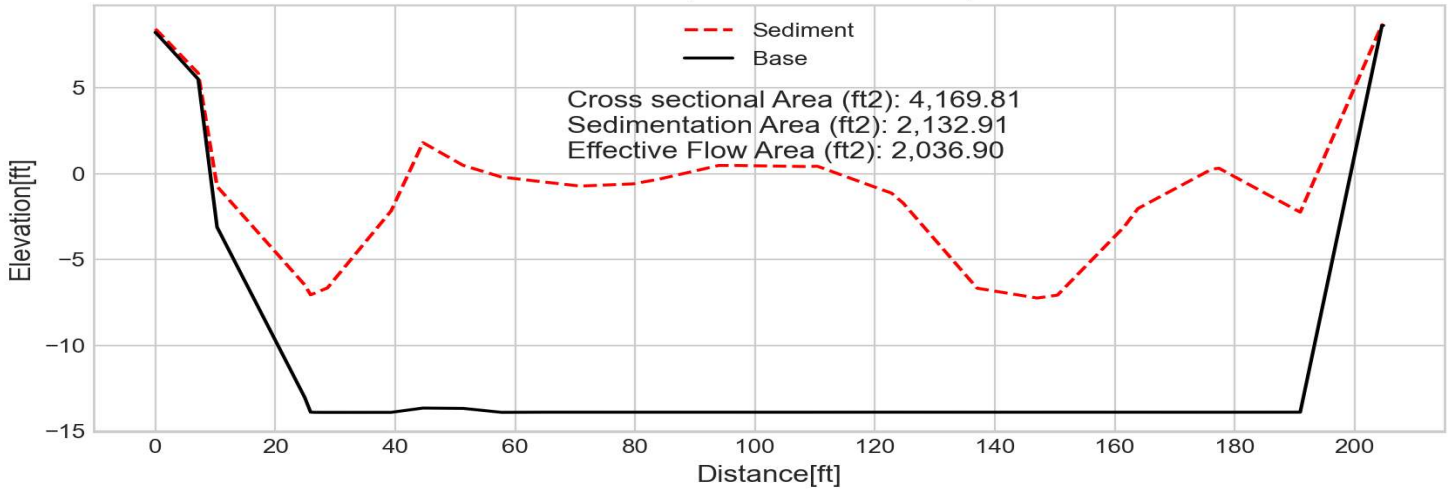
Year 5 (Station: 132+00)



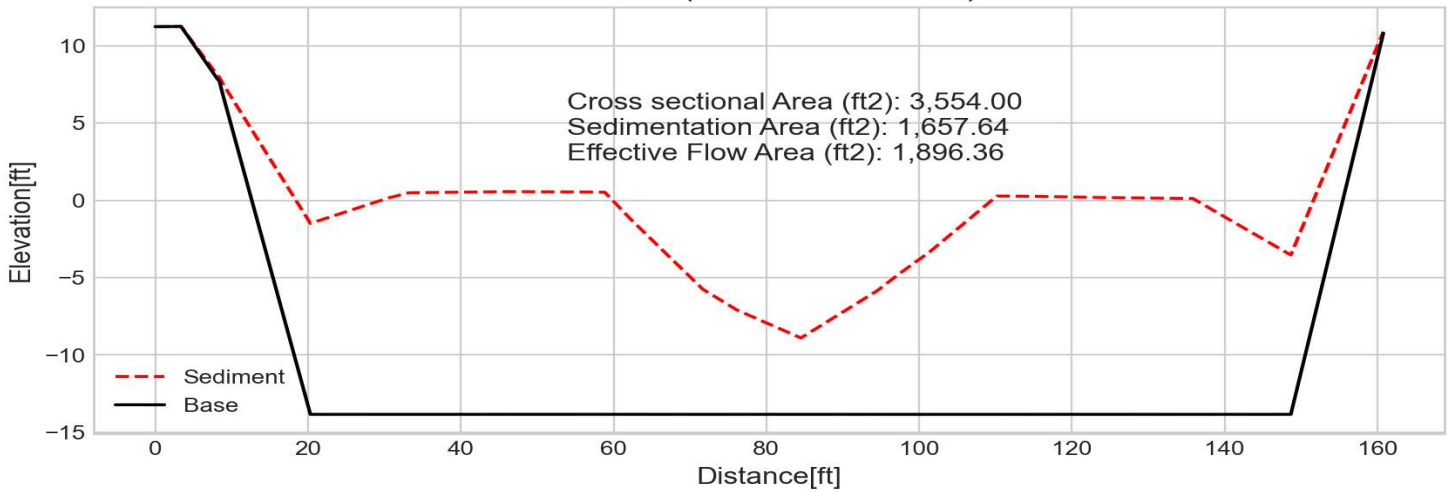
Year 5 (Station: 133+00)



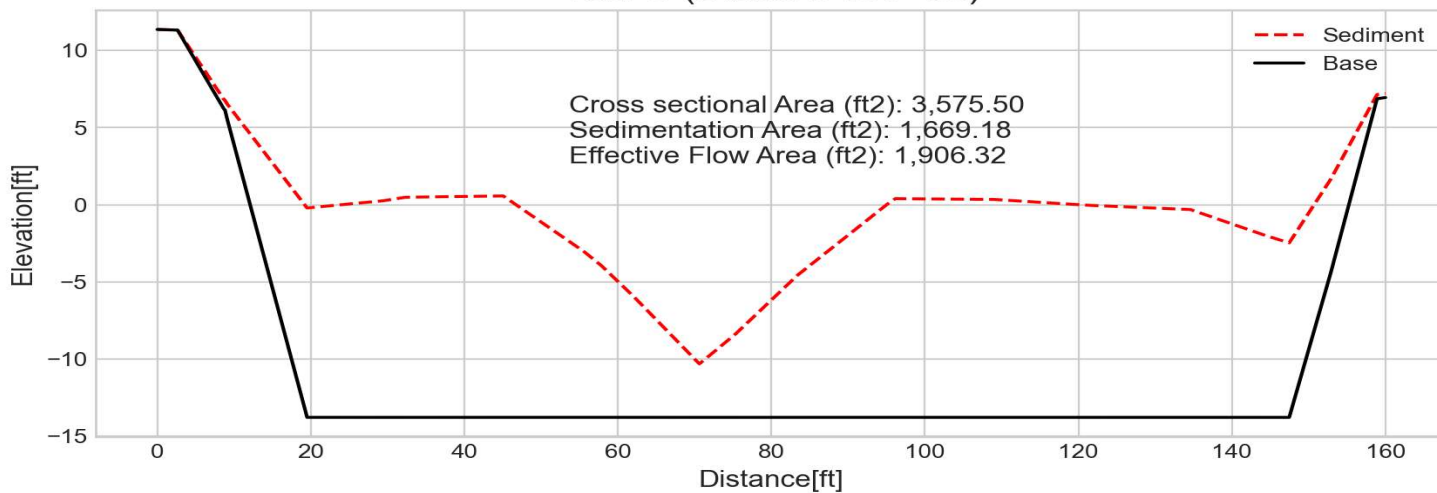
Year 5 (Station: 134+00)



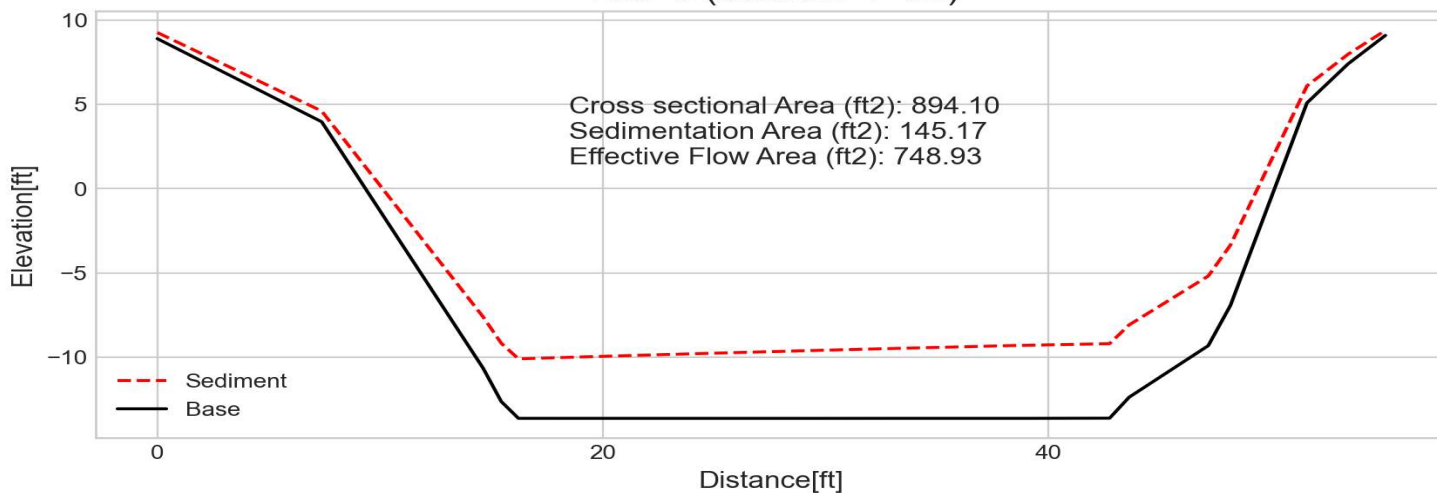
Year 5 (Station: 135+00)



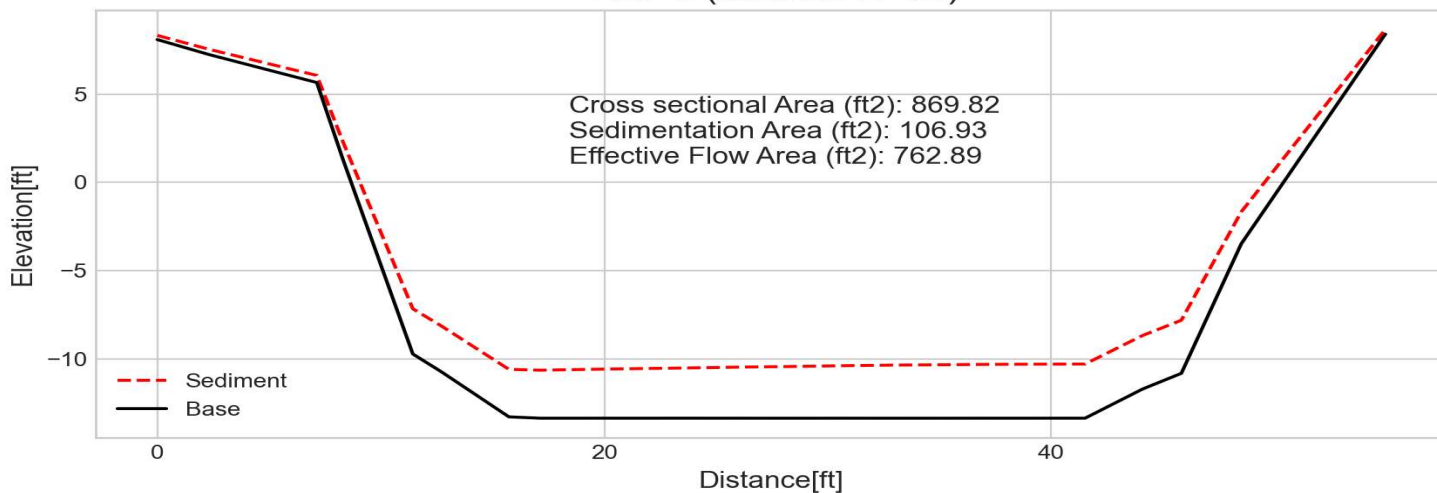
Year 5 (Station: 136+00)



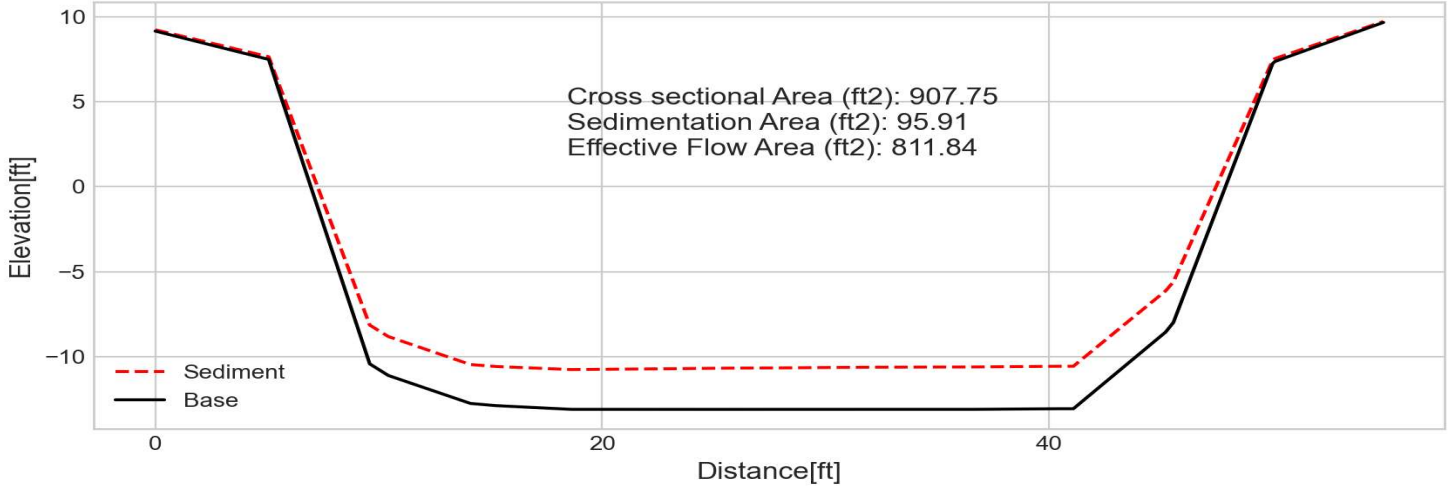
Year 5 (Station: 1+00)



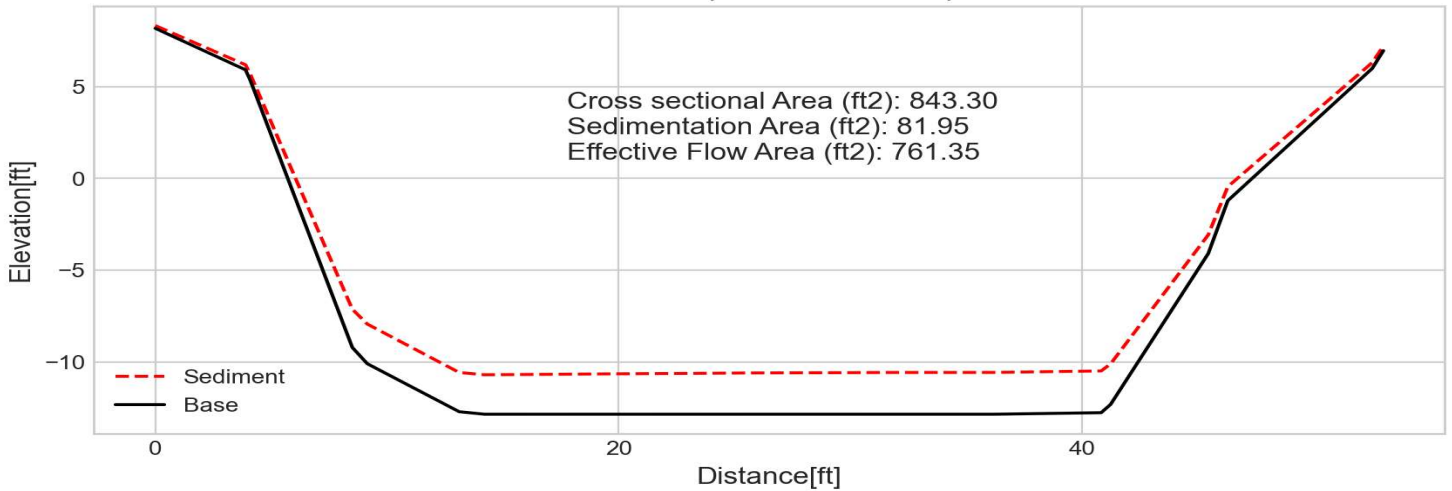
Year 5 (Station: 2+00)



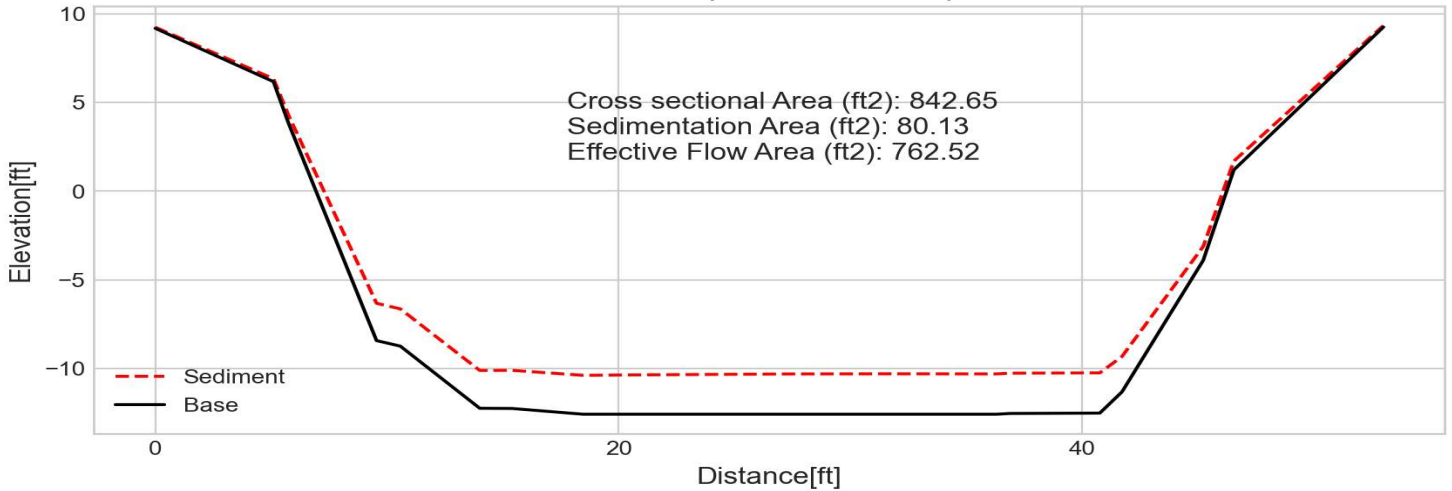
Year 5 (Station: 3+00)



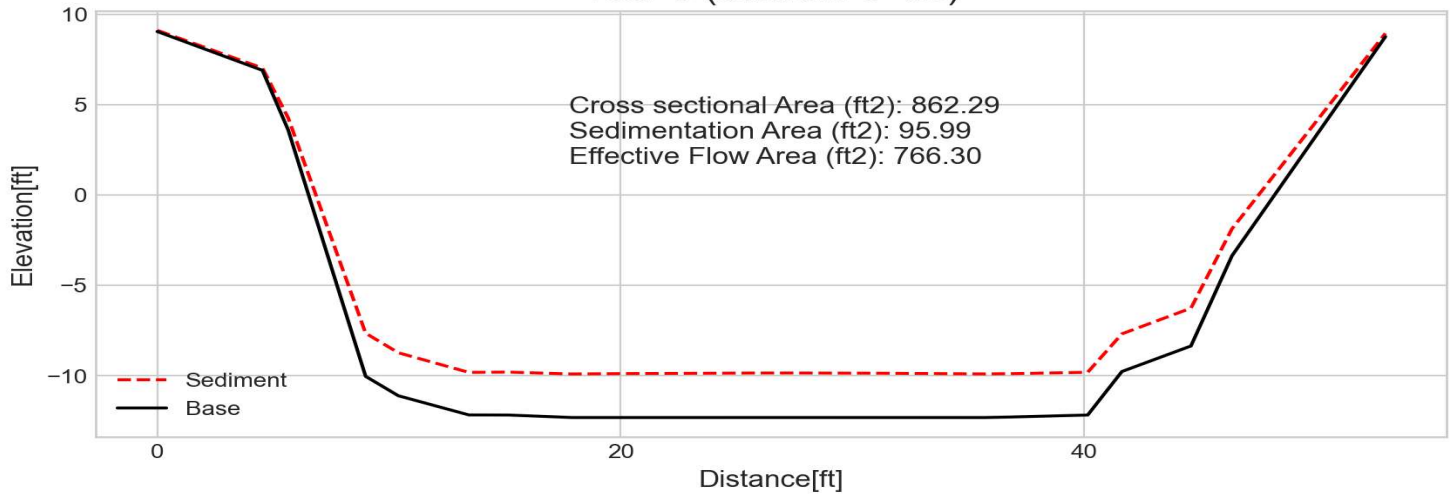
Year 5 (Station: 4+00)



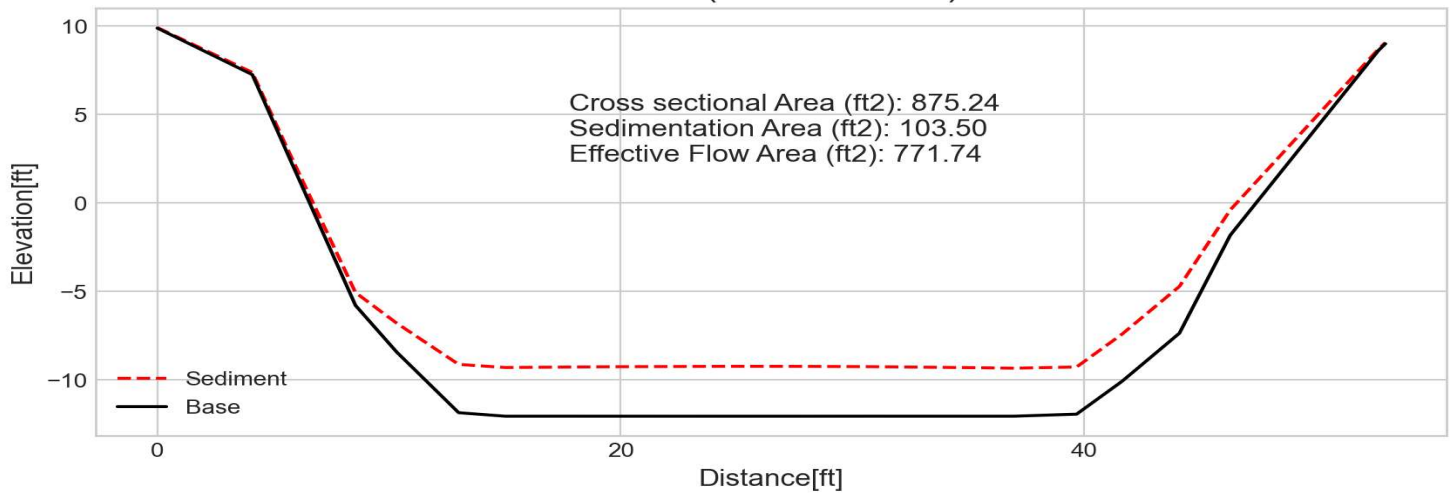
Year 5 (Station: 5+00)



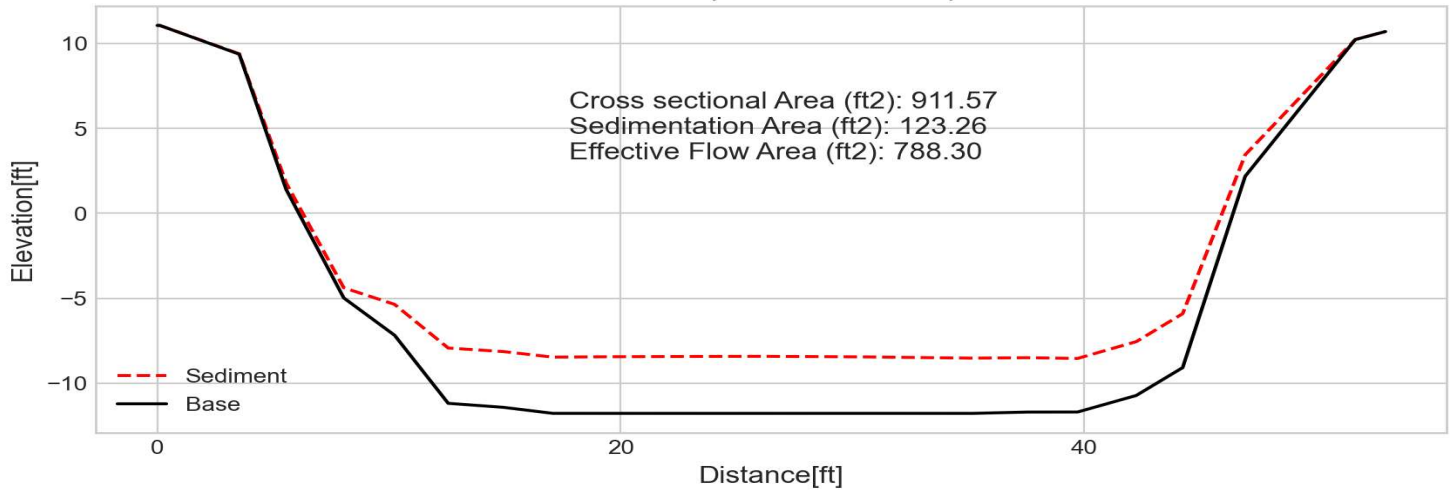
Year 5 (Station: 6+00)



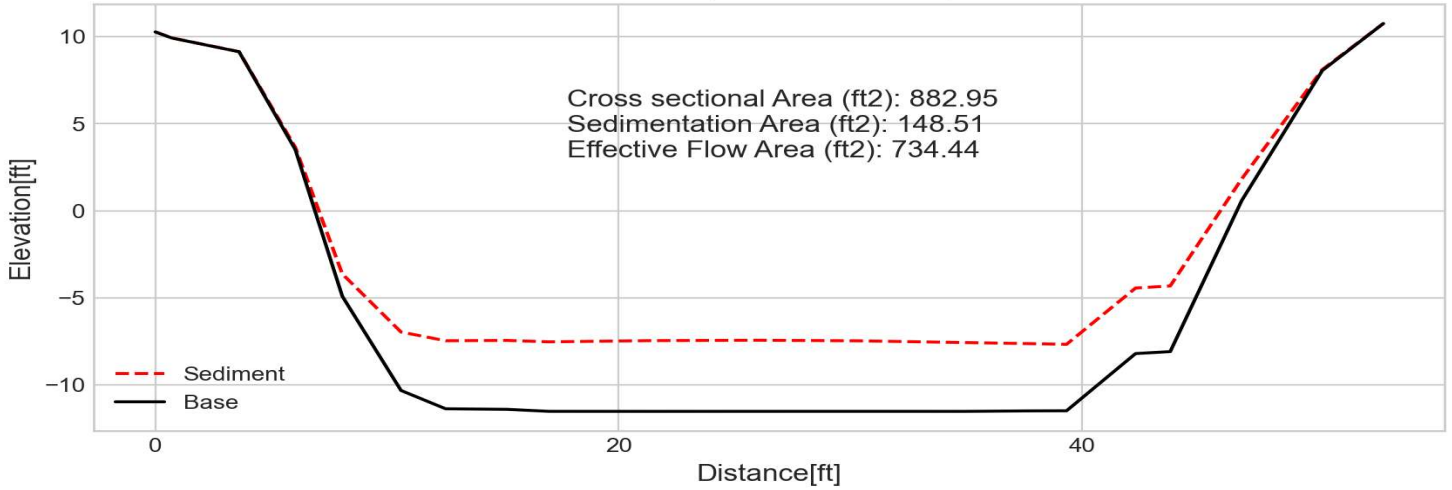
Year 5 (Station: 7+00)



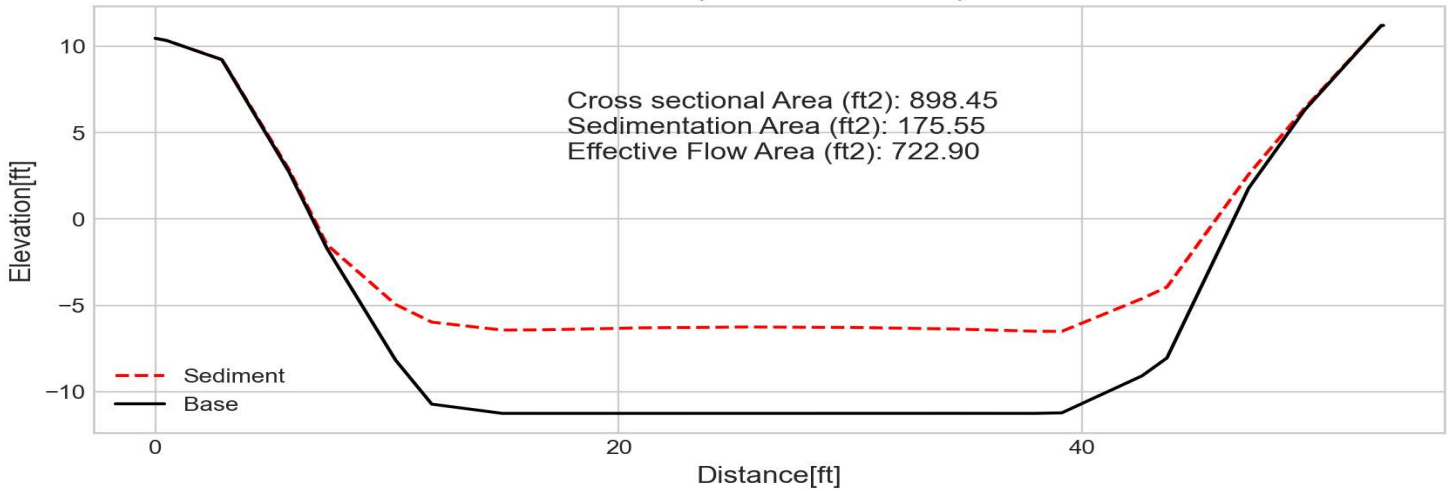
Year 5 (Station: 8+00)



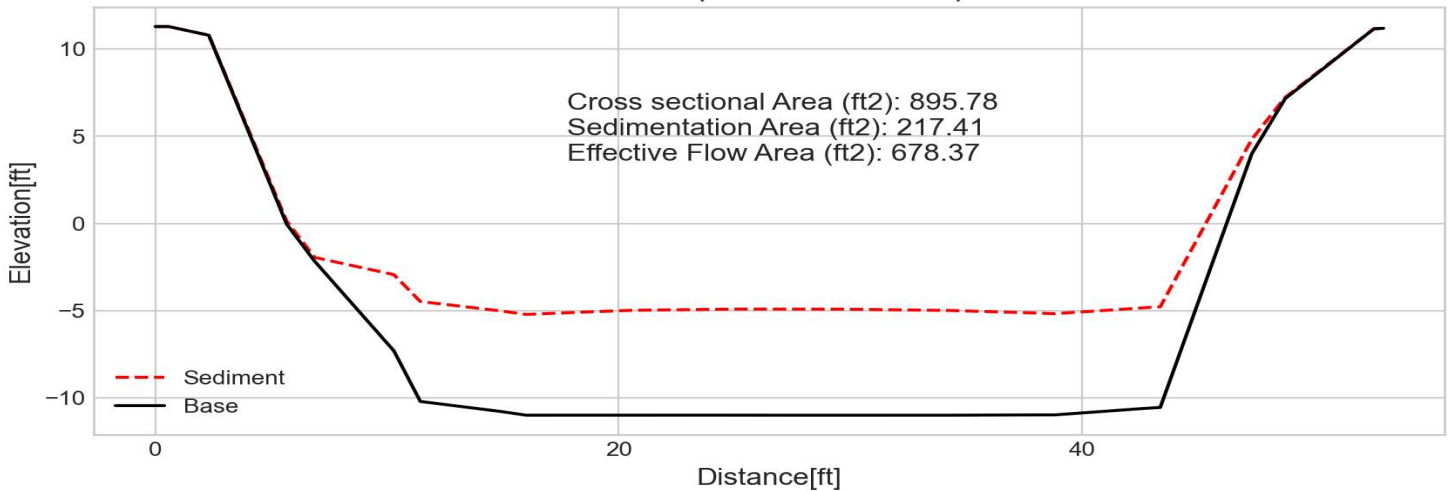
Year 5 (Station: 9+00)



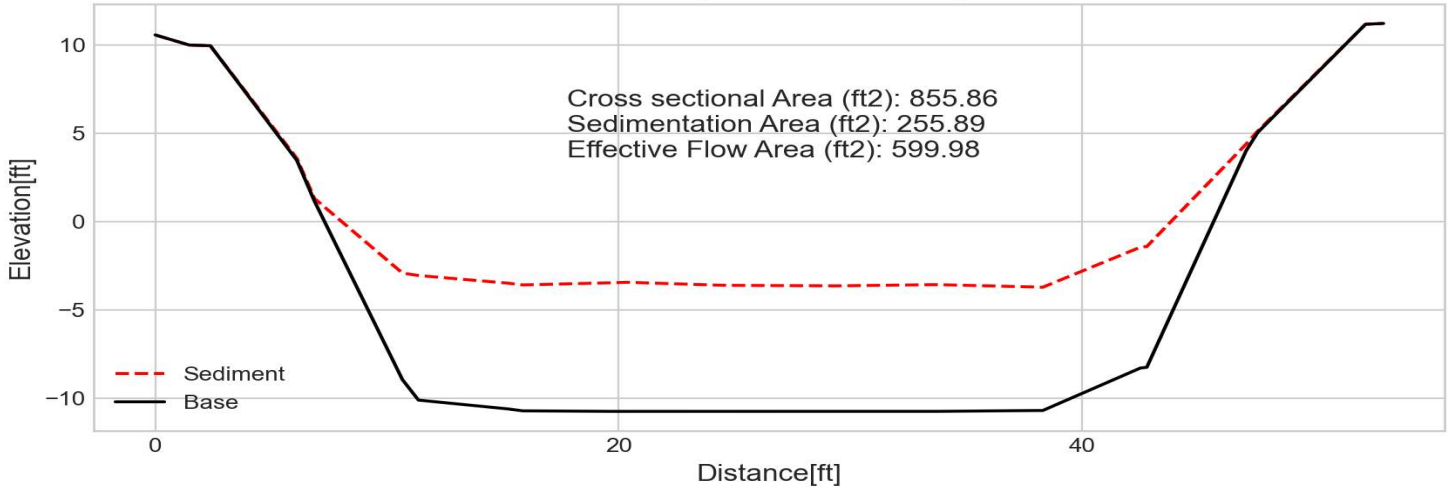
Year 5 (Station: 10+00)



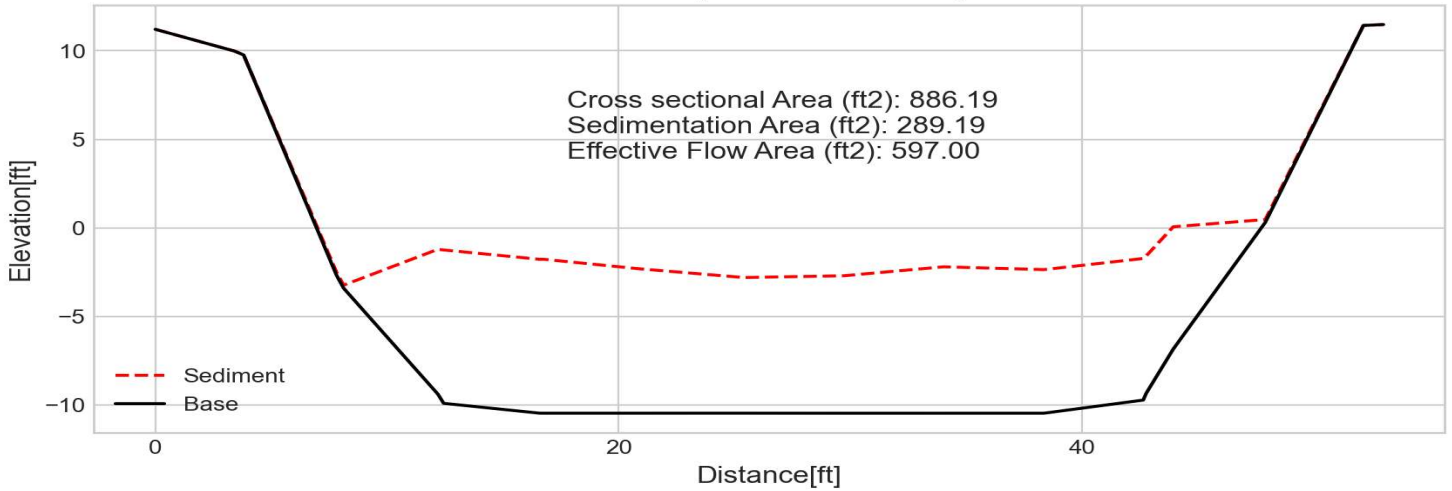
Year 5 (Station: 11+00)



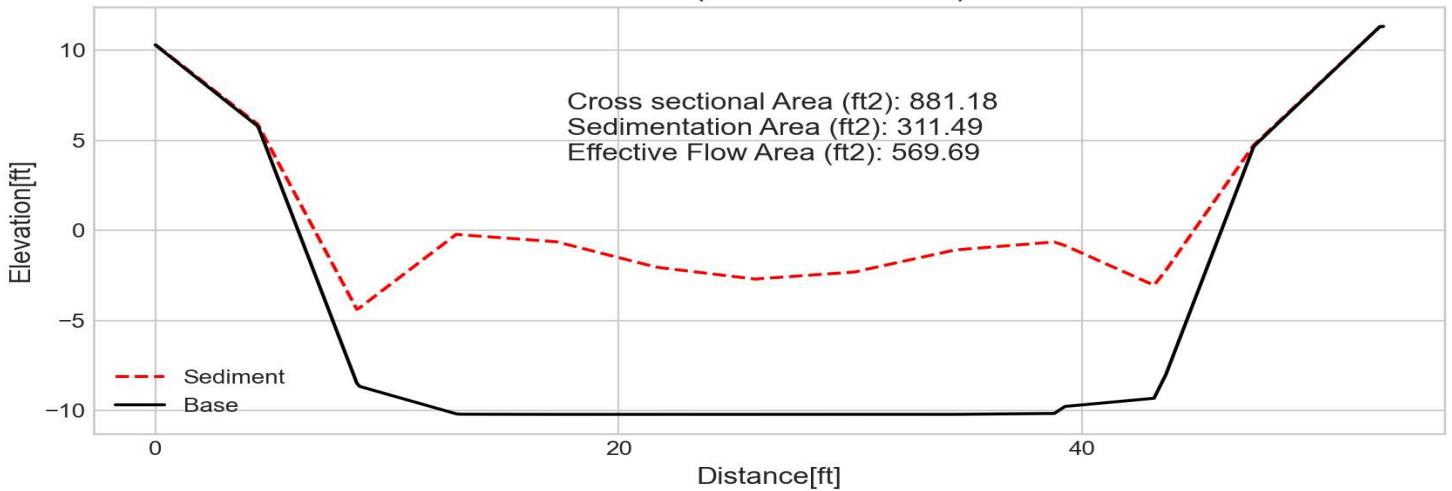
Year 5 (Station: 12+00)



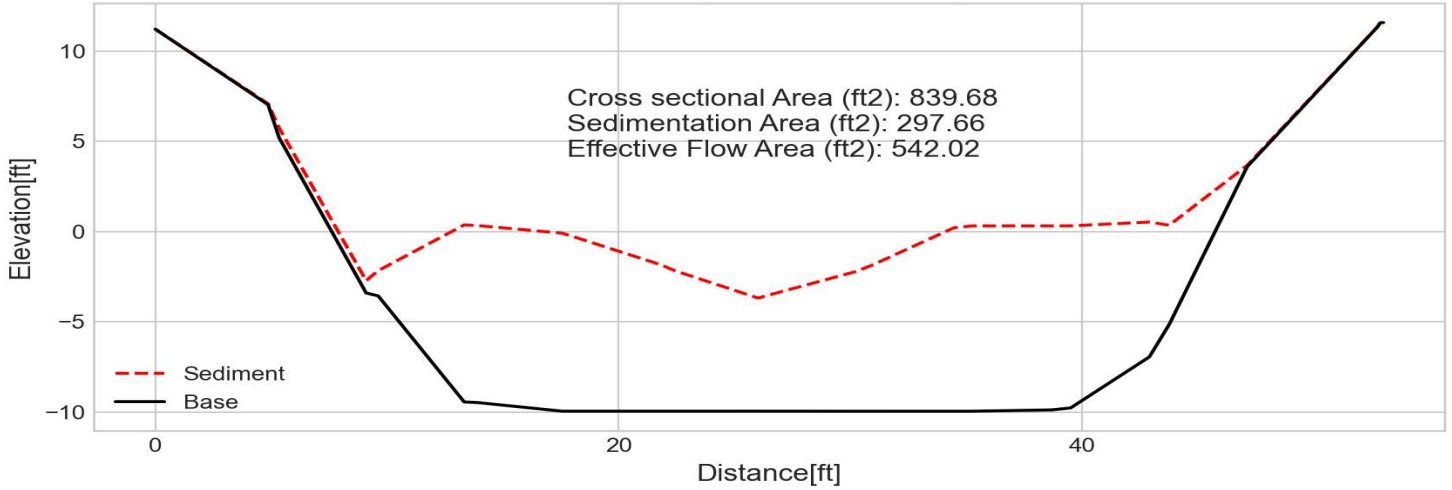
Year 5 (Station: 13+00)



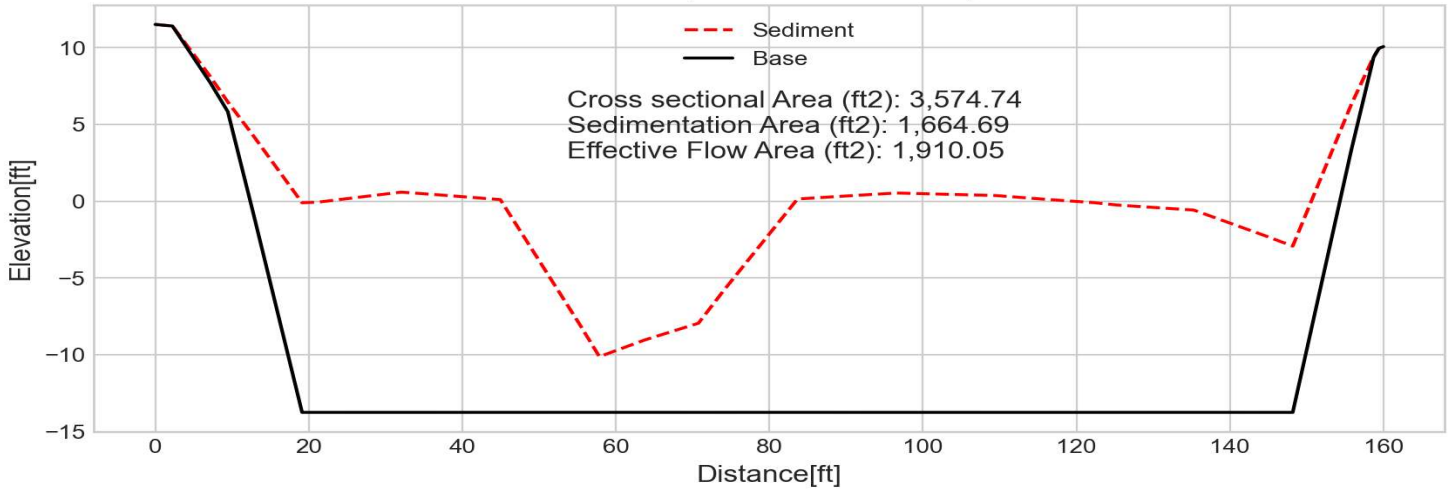
Year 5 (Station: 14+00)



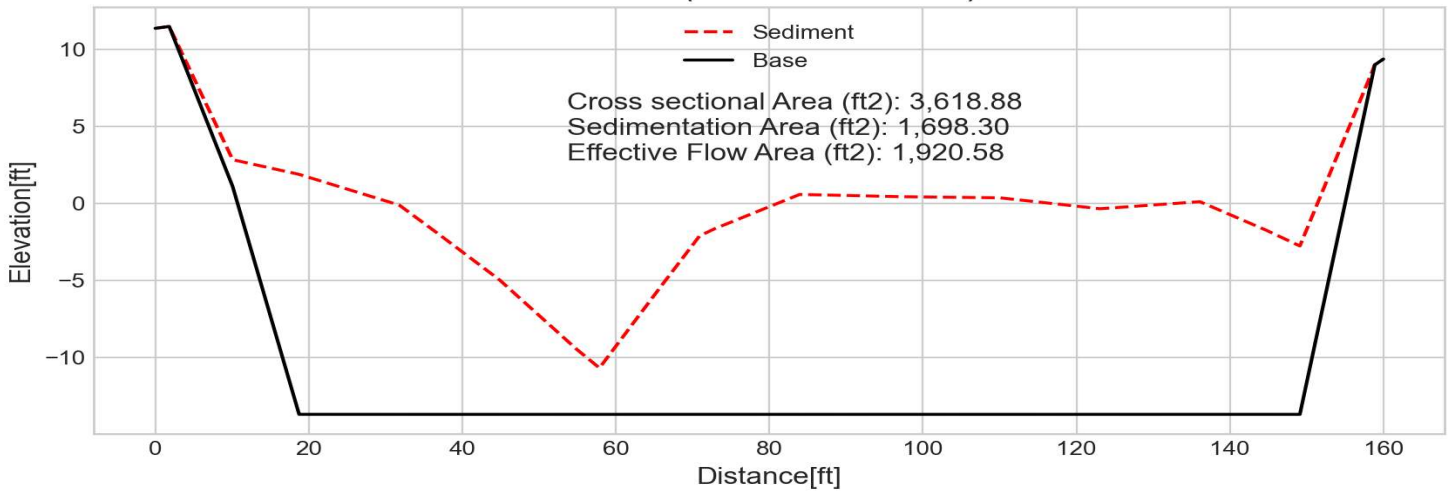
Year 5 (Station: 15+00)



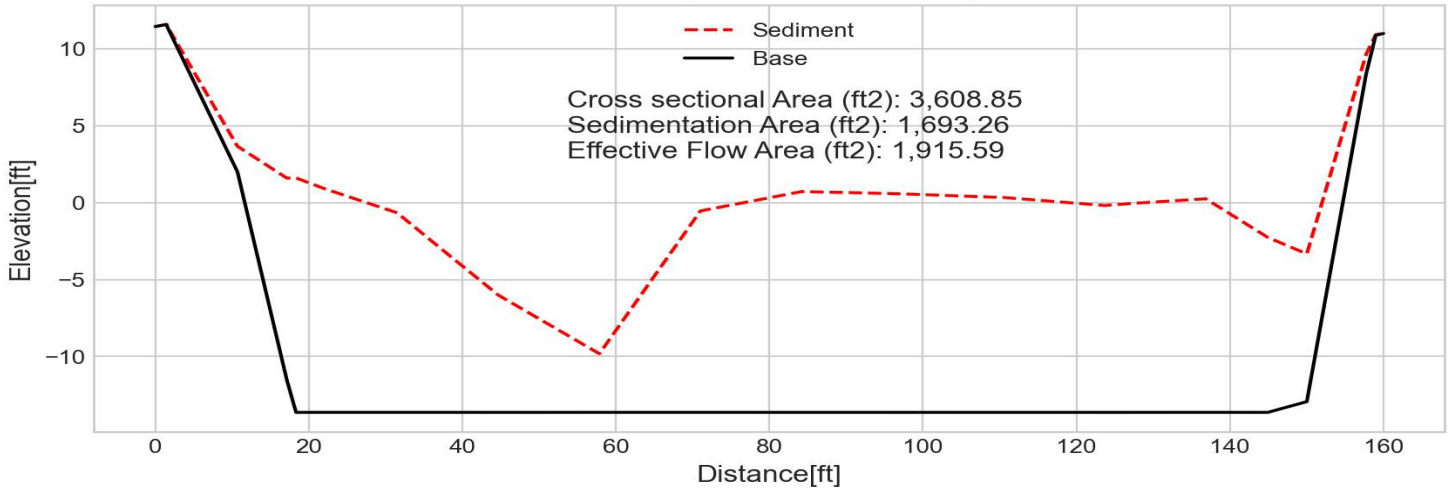
Year 5 (Station: 137+00)



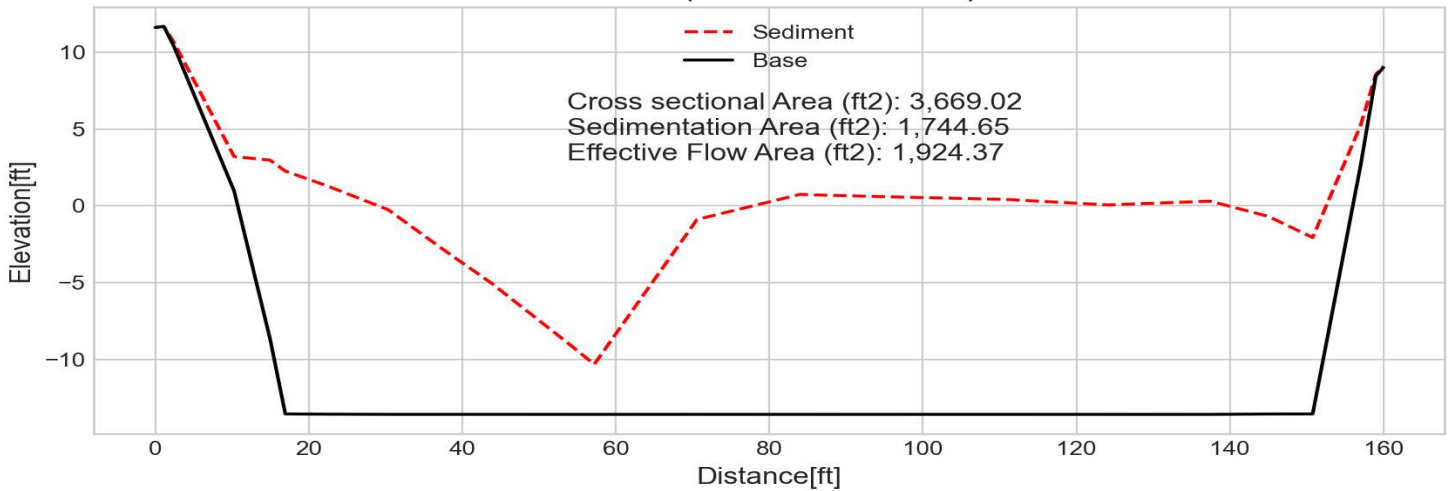
Year 5 (Station: 138+00)



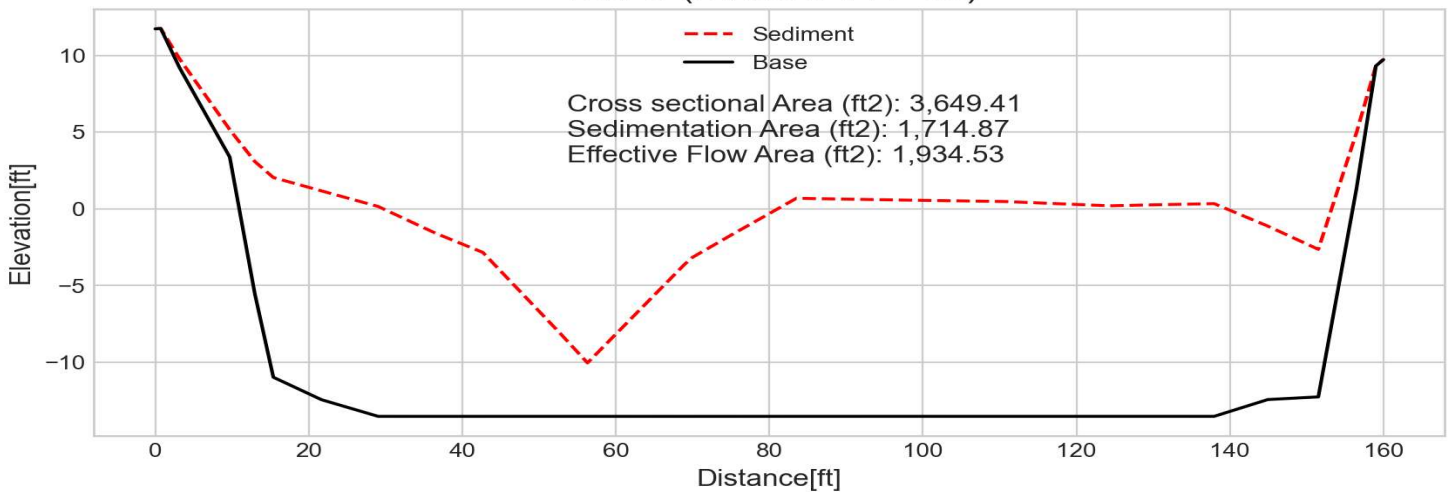
Year 5 (Station: 139+00)



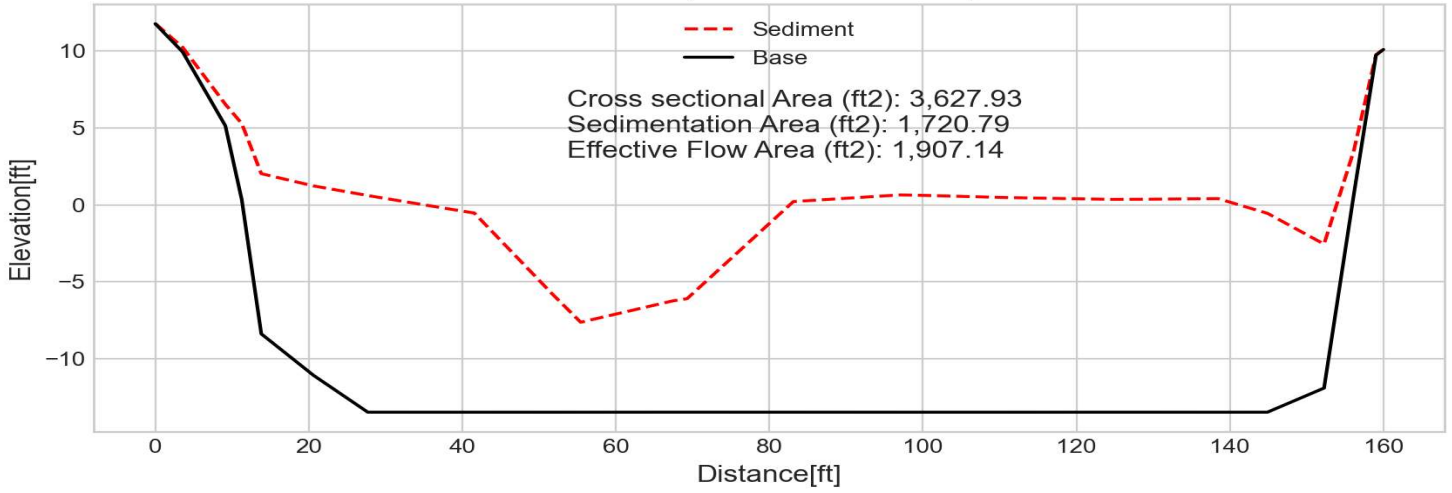
Year 5 (Station: 140+00)



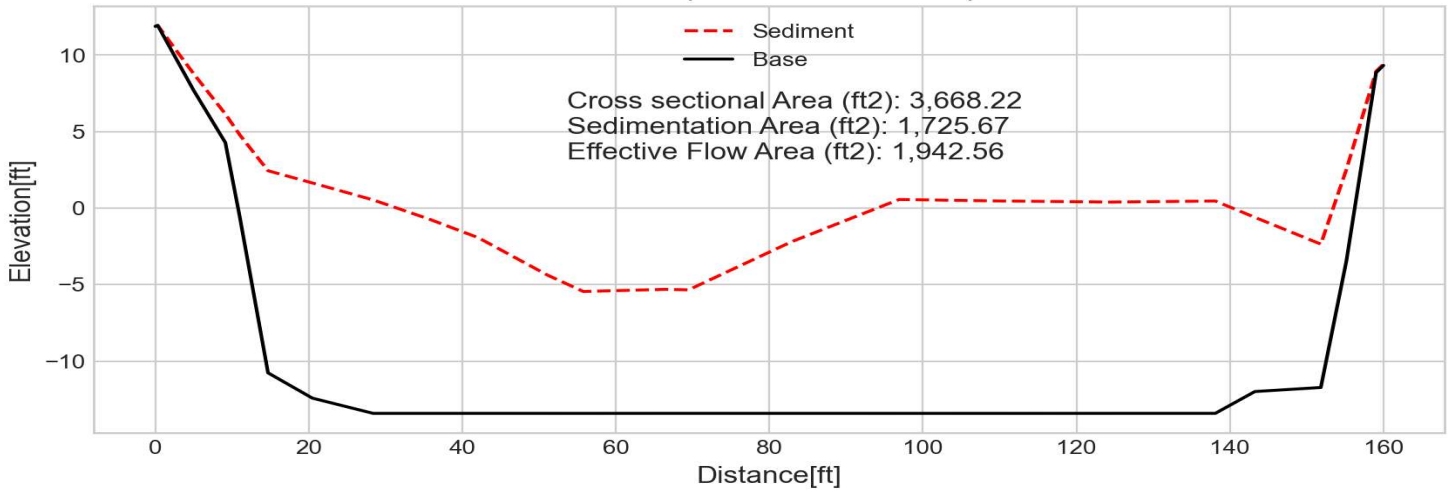
Year 5 (Station: 141+00)



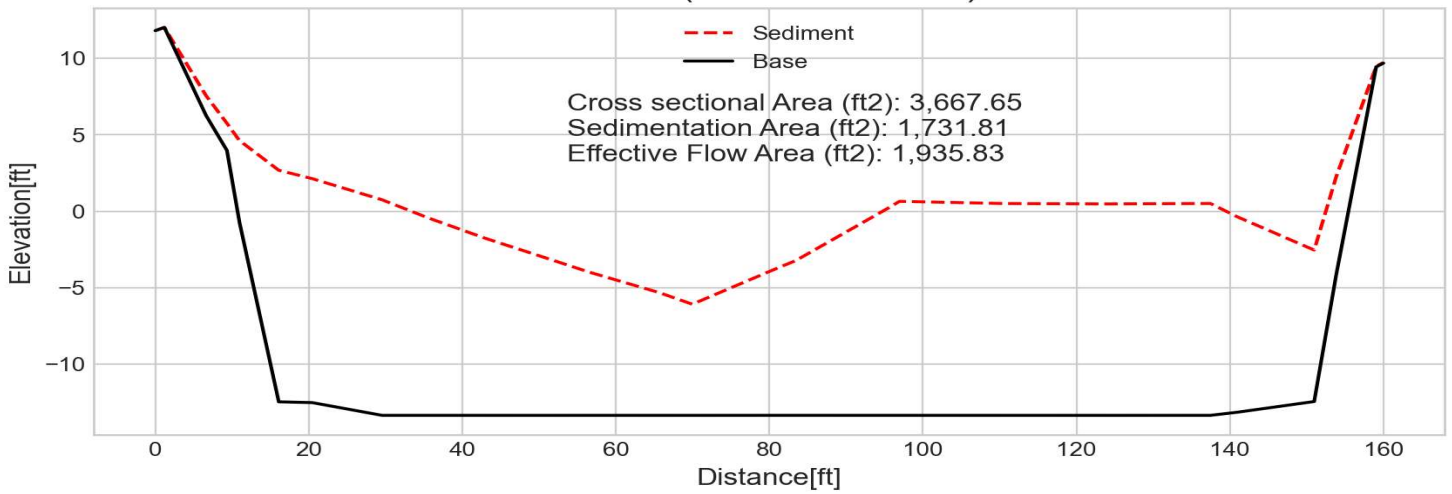
Year 5 (Station: 142+00)



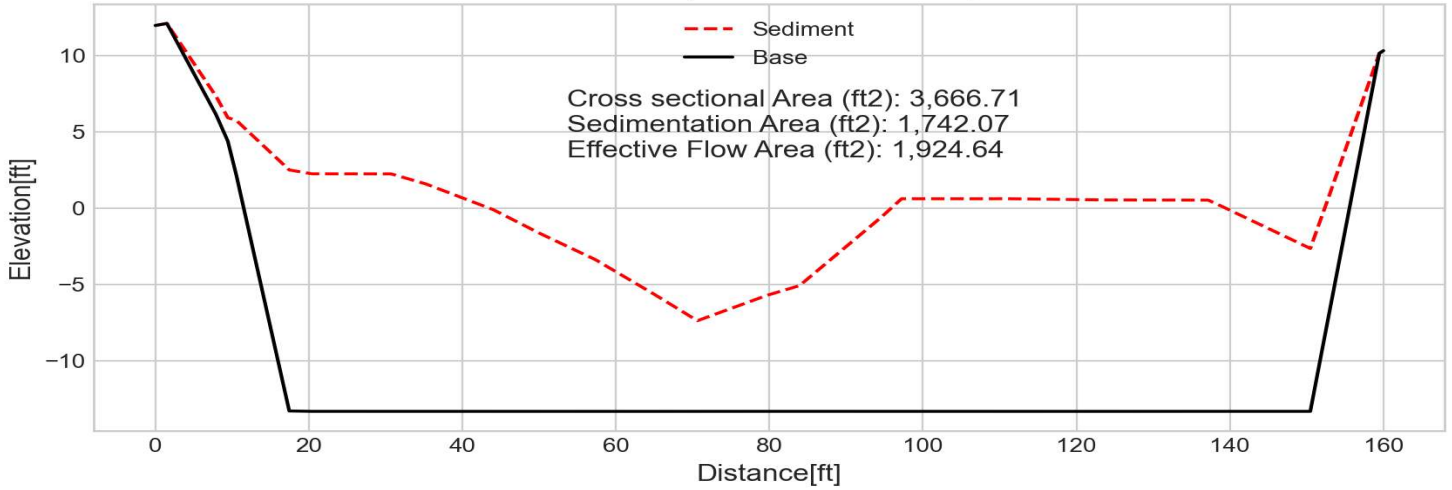
Year 5 (Station: 143+00)



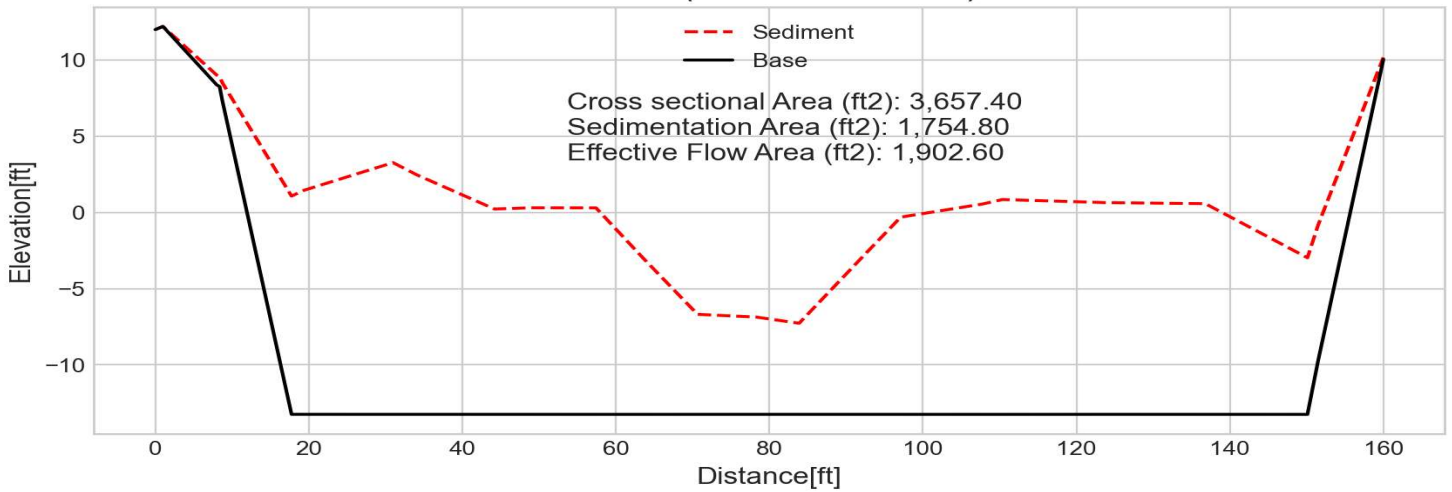
Year 5 (Station: 144+00)



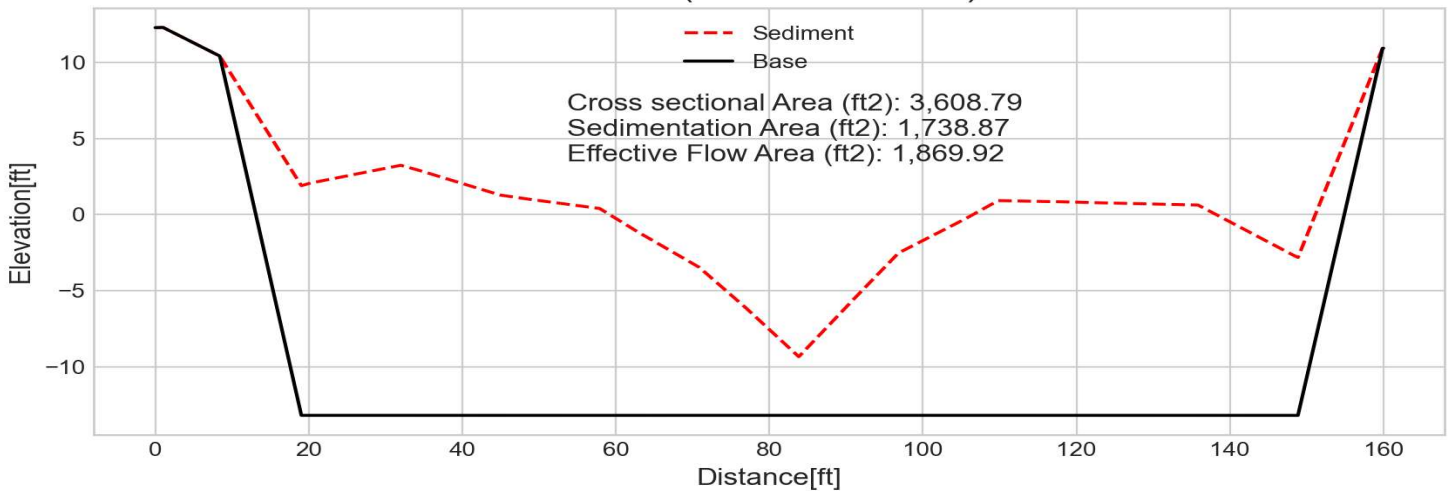
Year 5 (Station: 145+00)



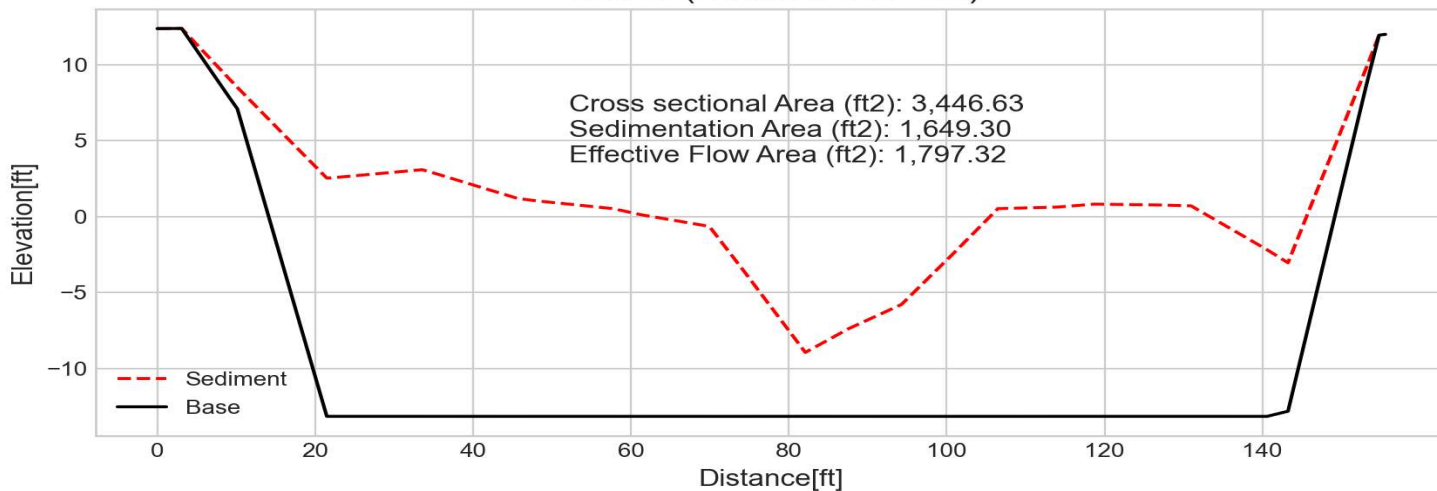
Year 5 (Station: 146+00)



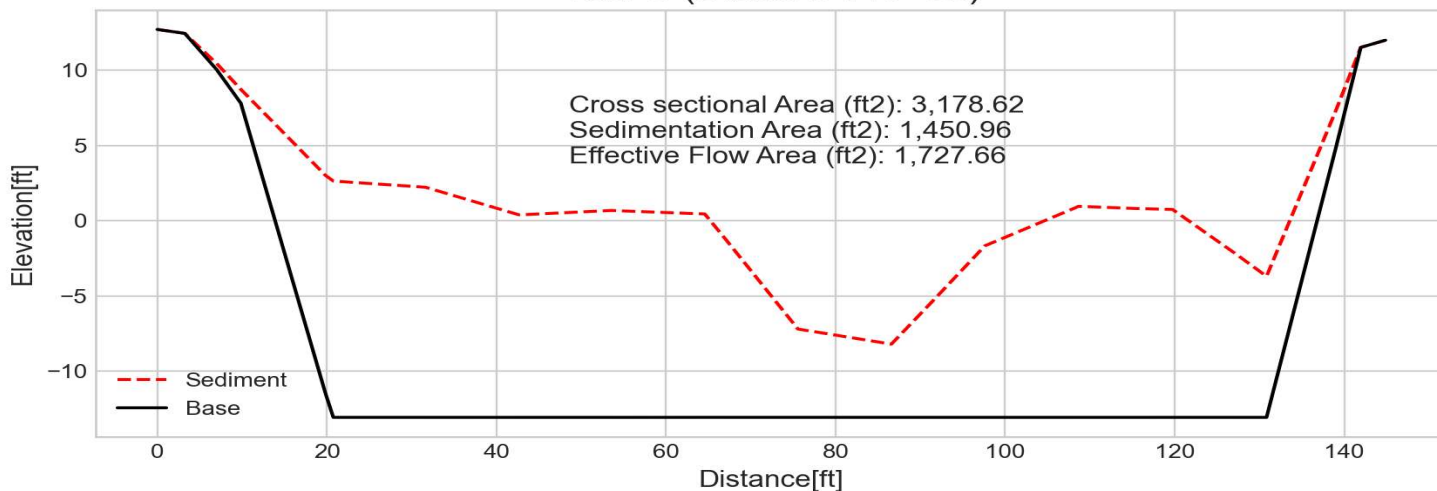
Year 5 (Station: 147+00)



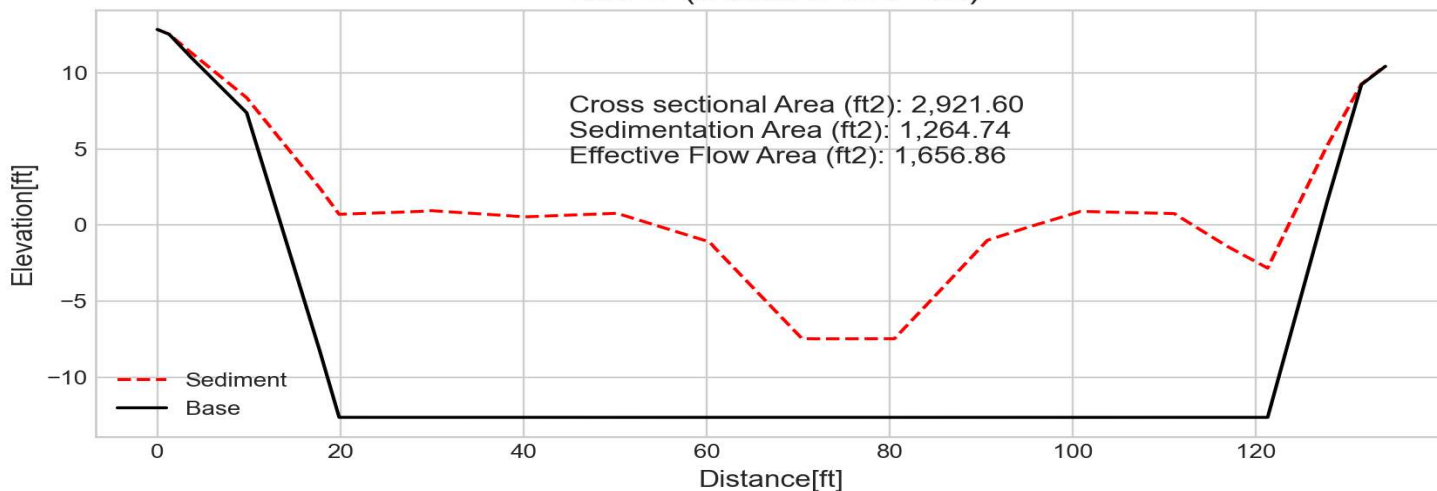
Year 5 (Station: 148+00)



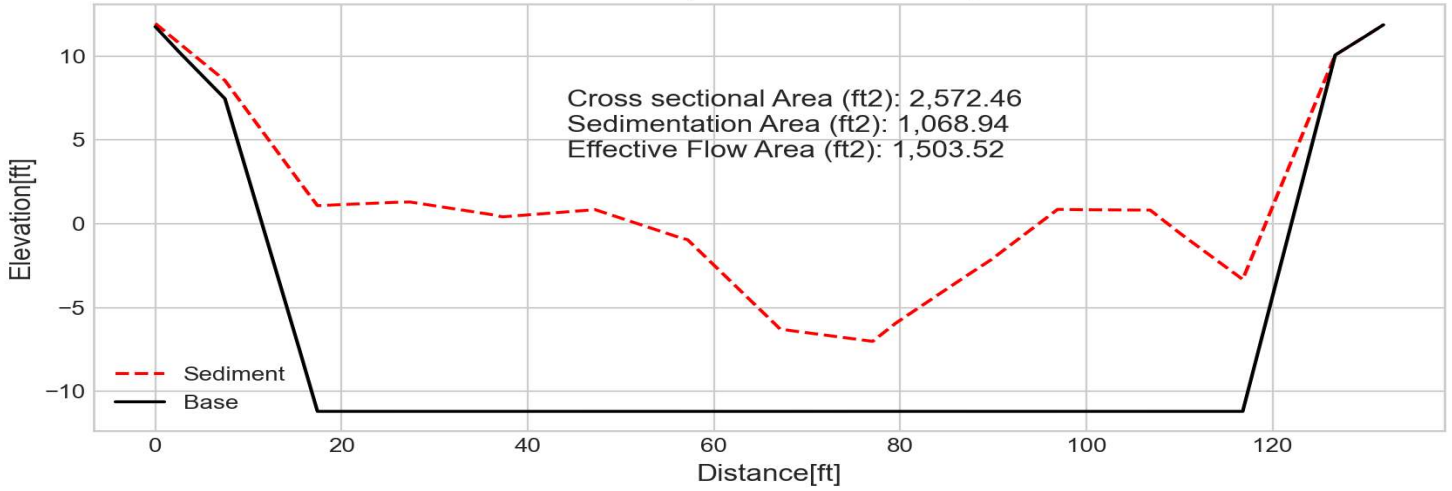
Year 5 (Station: 149+00)



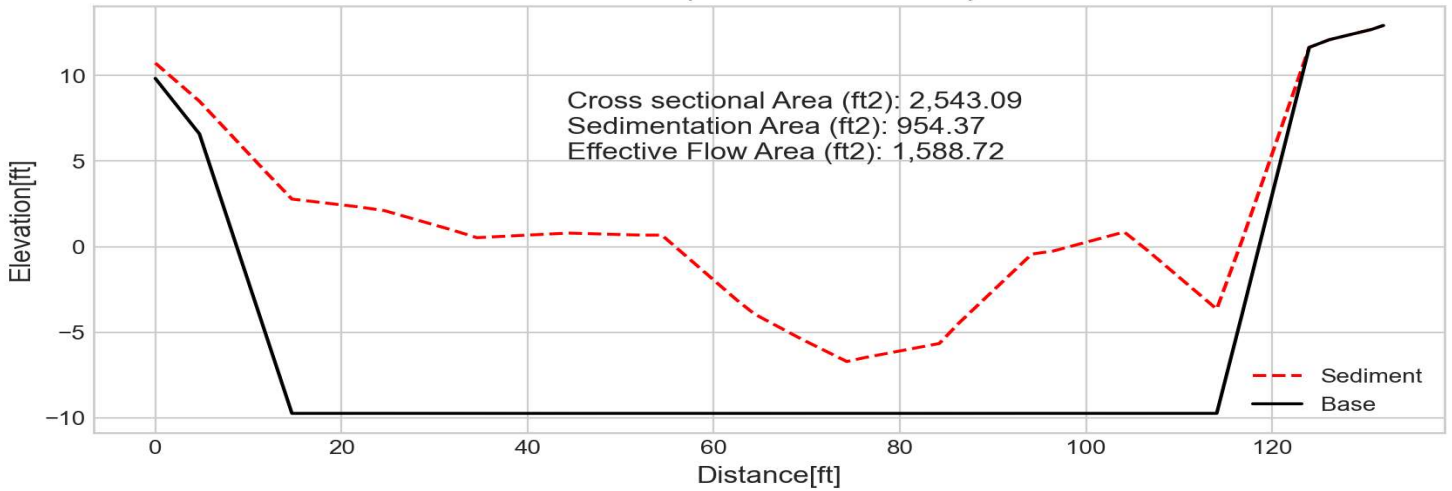
Year 5 (Station: 150+00)



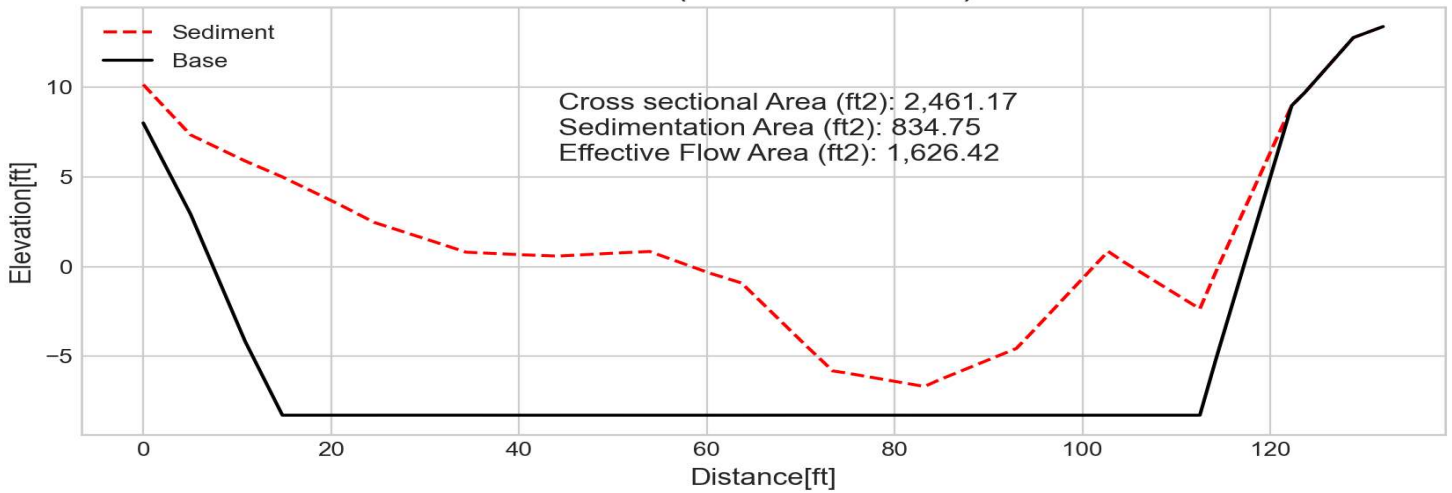
Year 5 (Station: 151+00)



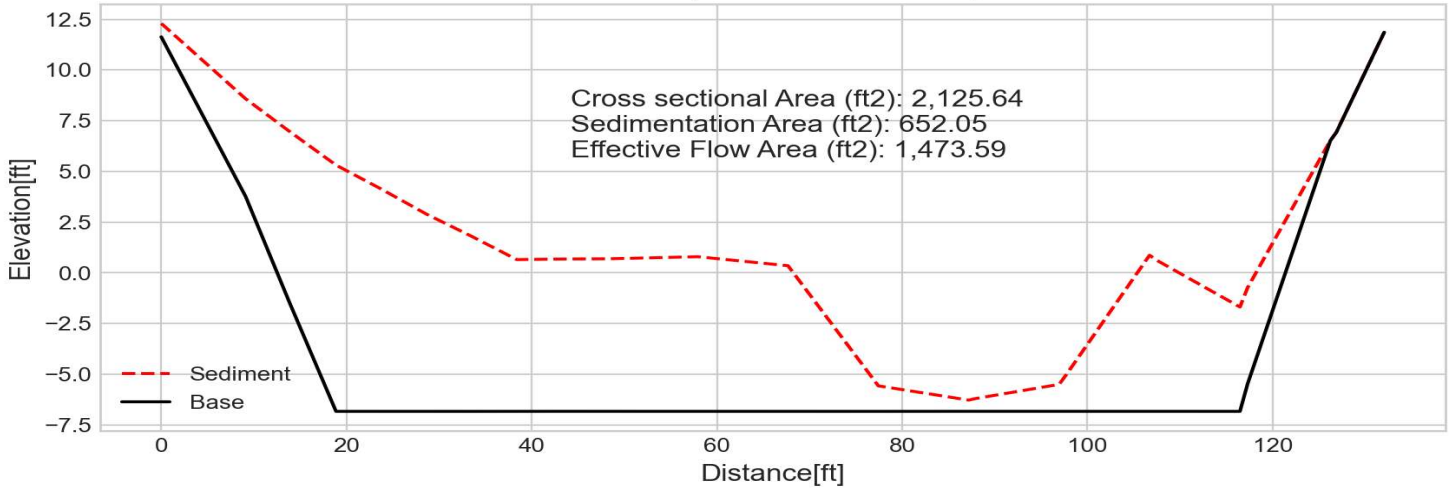
Year 5 (Station: 152+00)



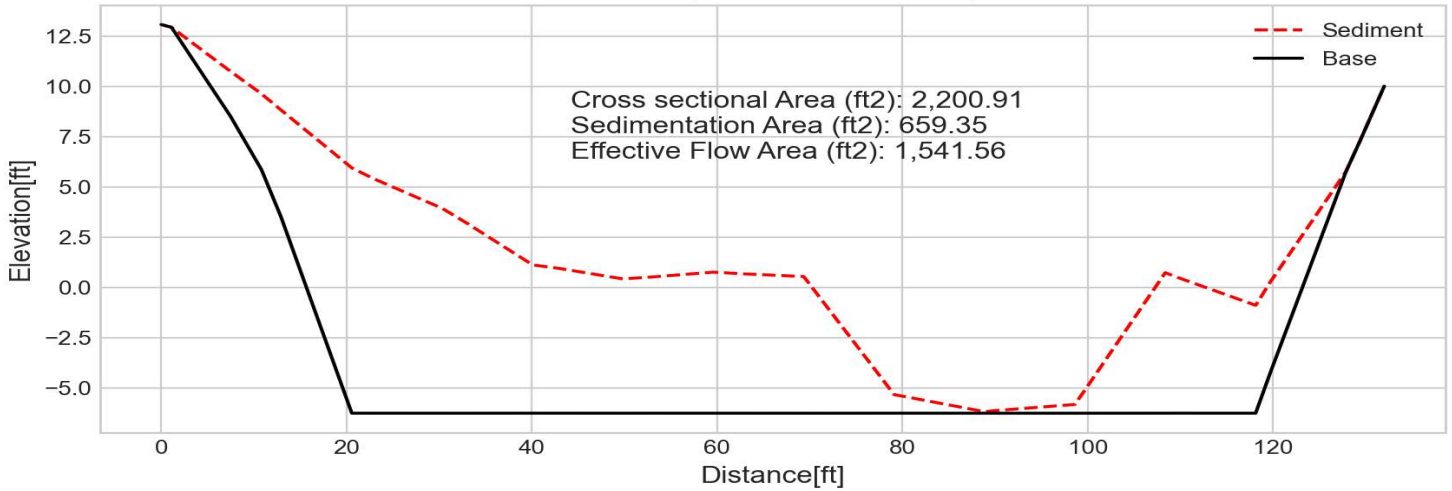
Year 5 (Station: 153+00)



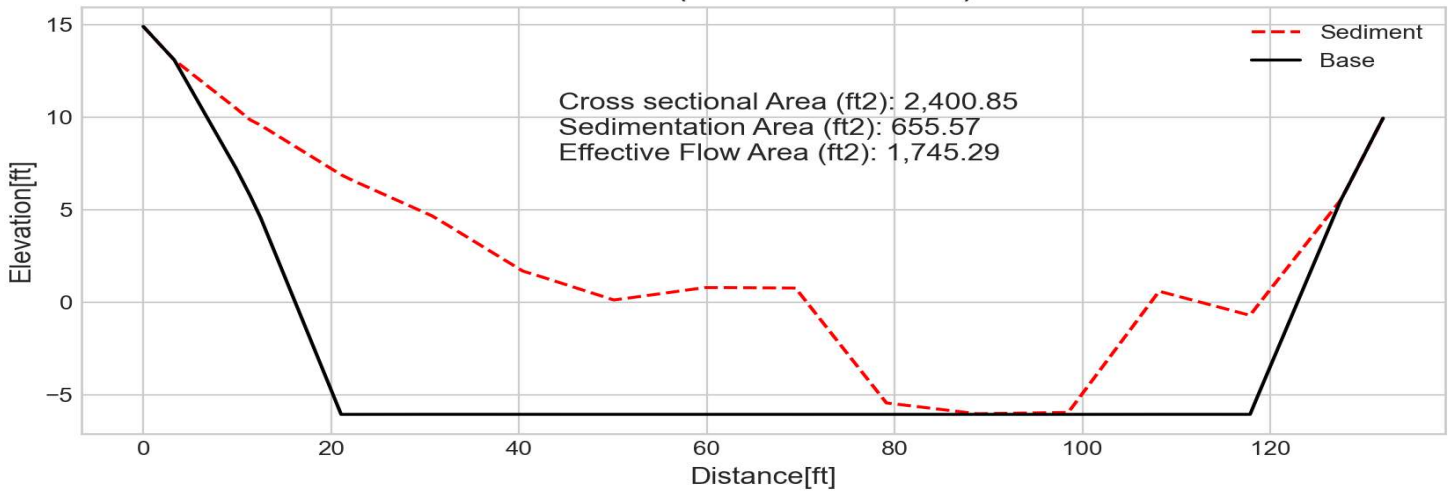
Year 5 (Station: 154+00)



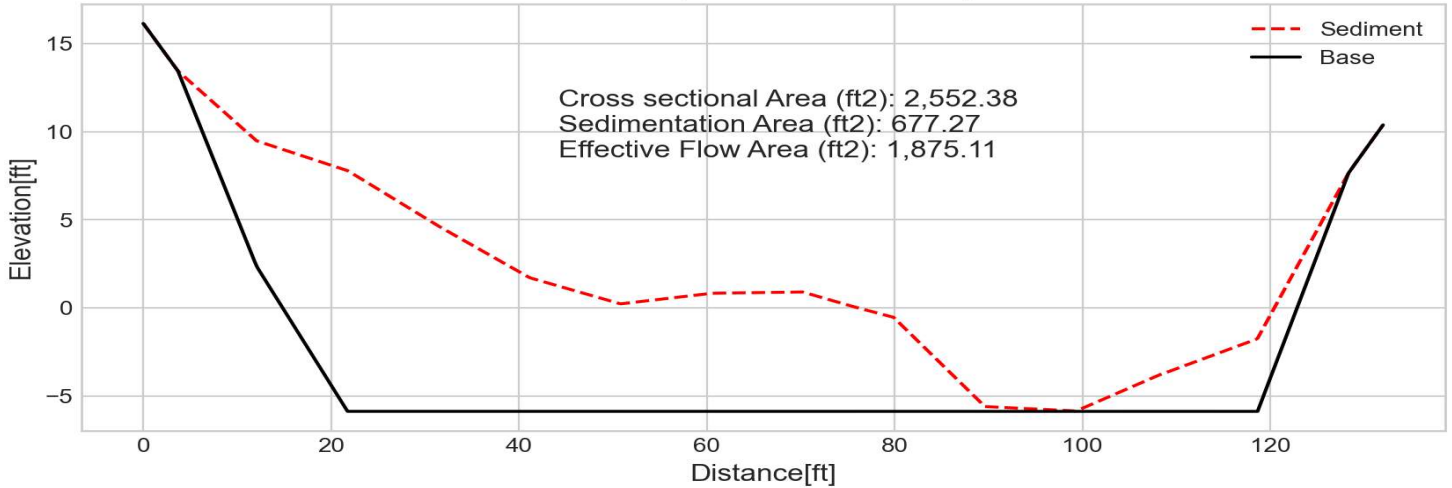
Year 5 (Station: 155+00)



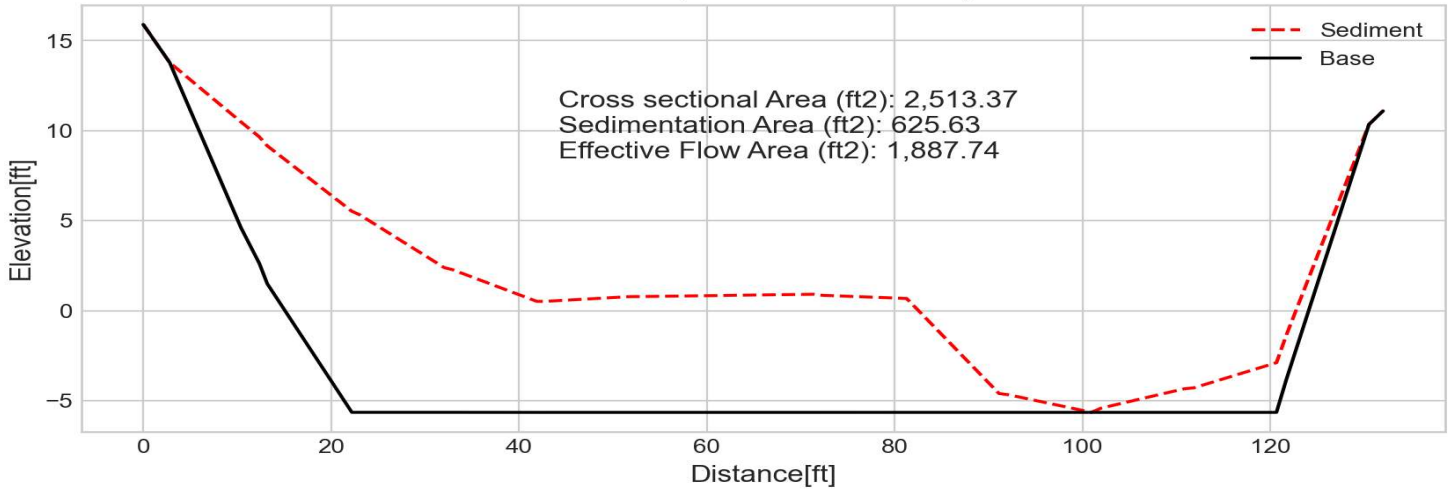
Year 5 (Station: 156+00)



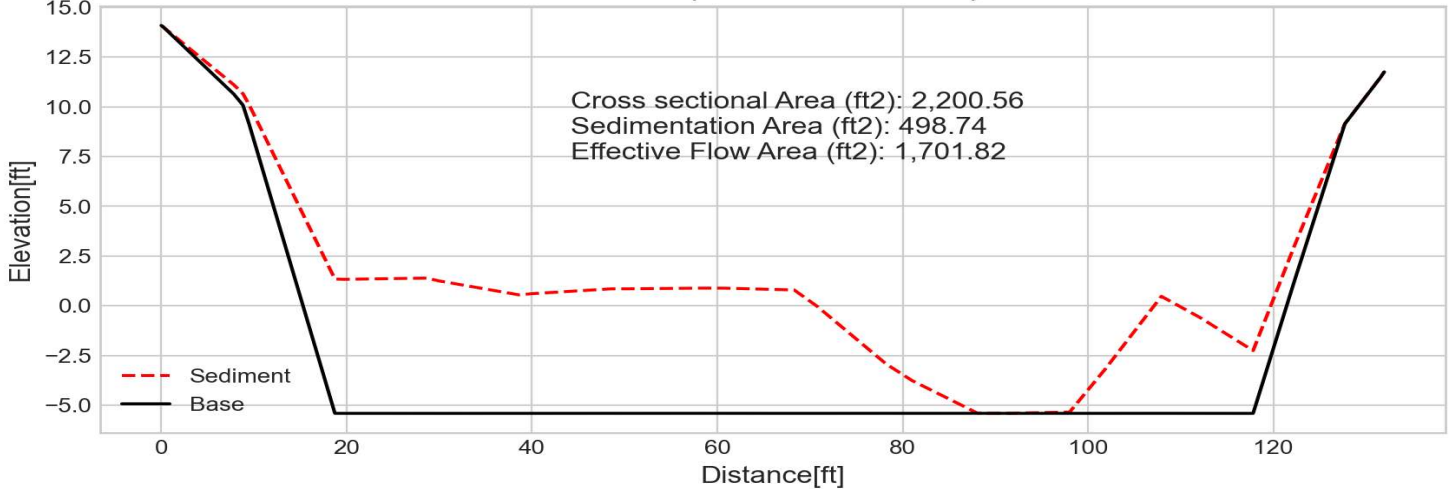
Year 5 (Station: 157+00)



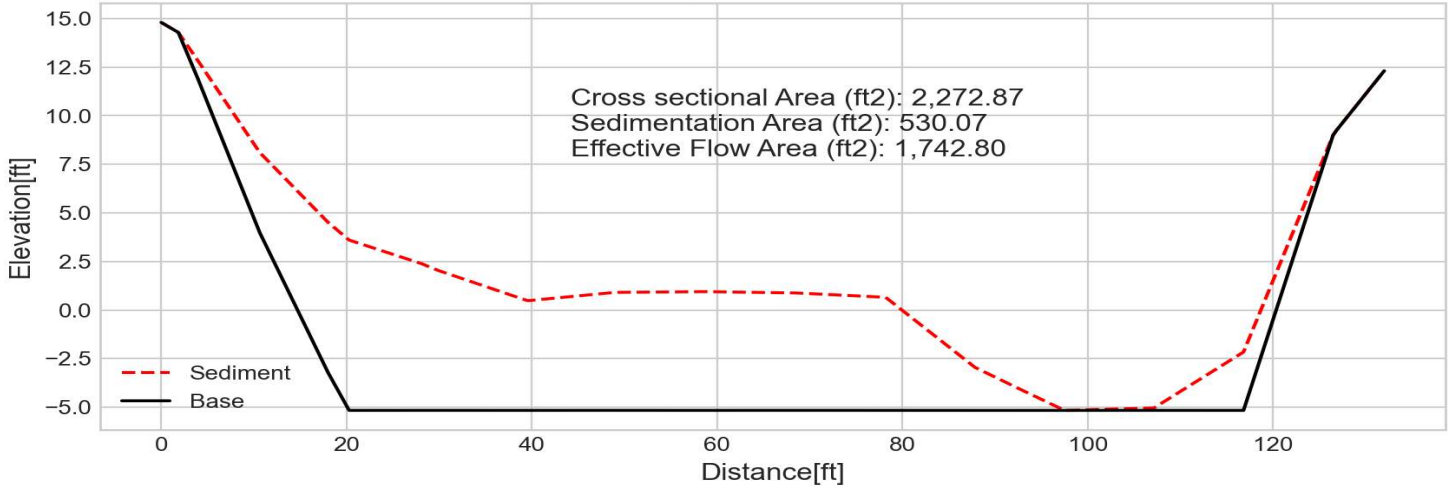
Year 5 (Station: 158+00)



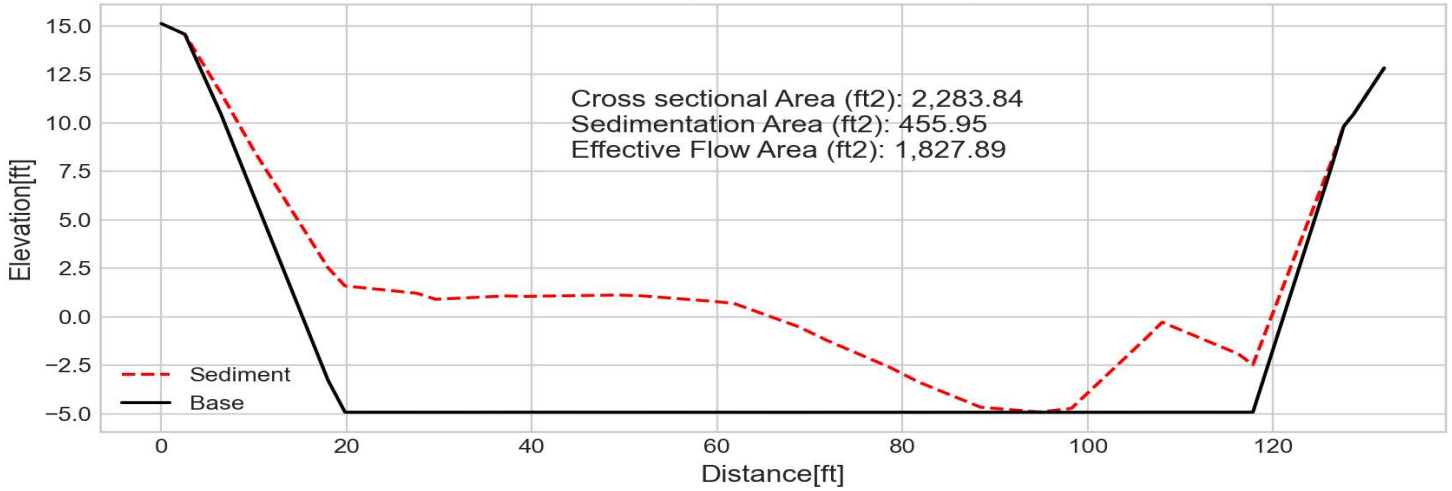
Year 5 (Station: 159+00)



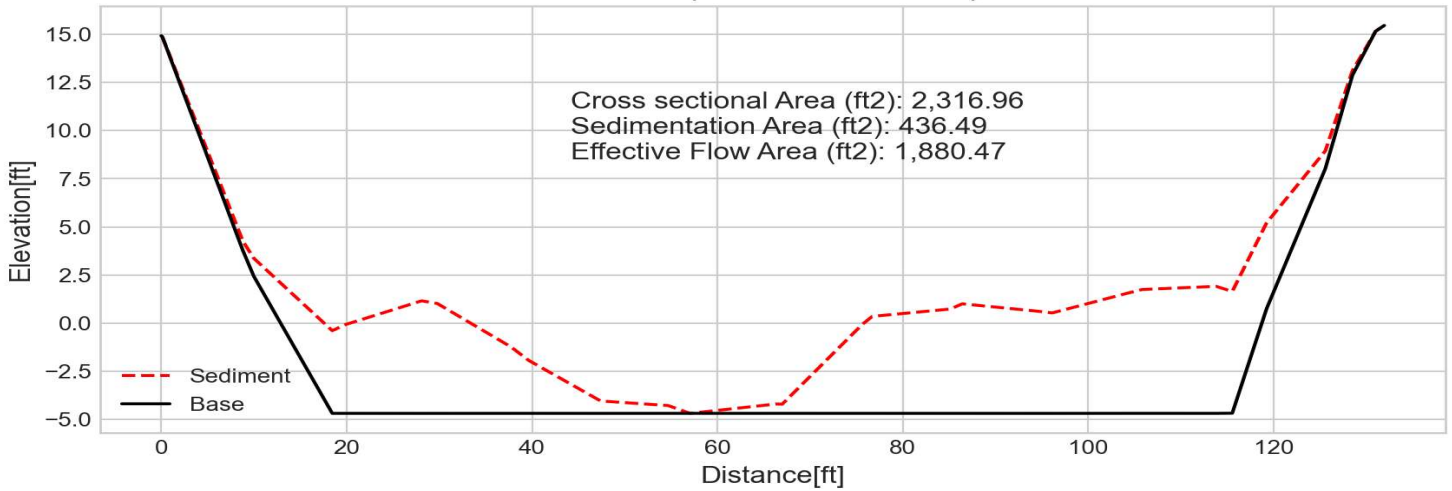
Year 5 (Station: 160+00)



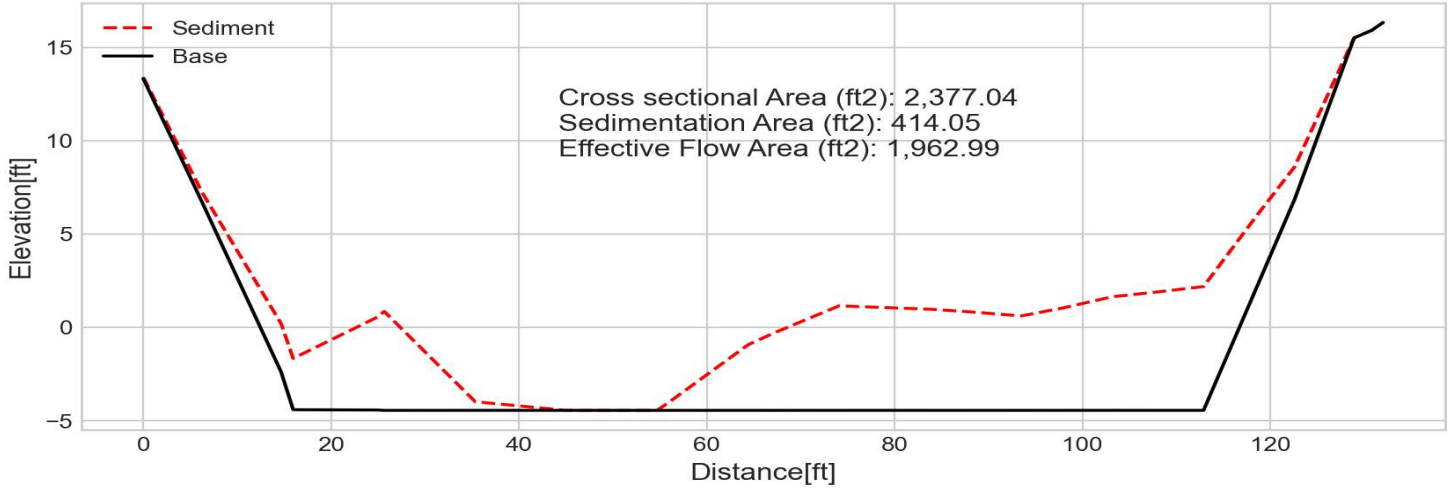
Year 5 (Station: 161+00)



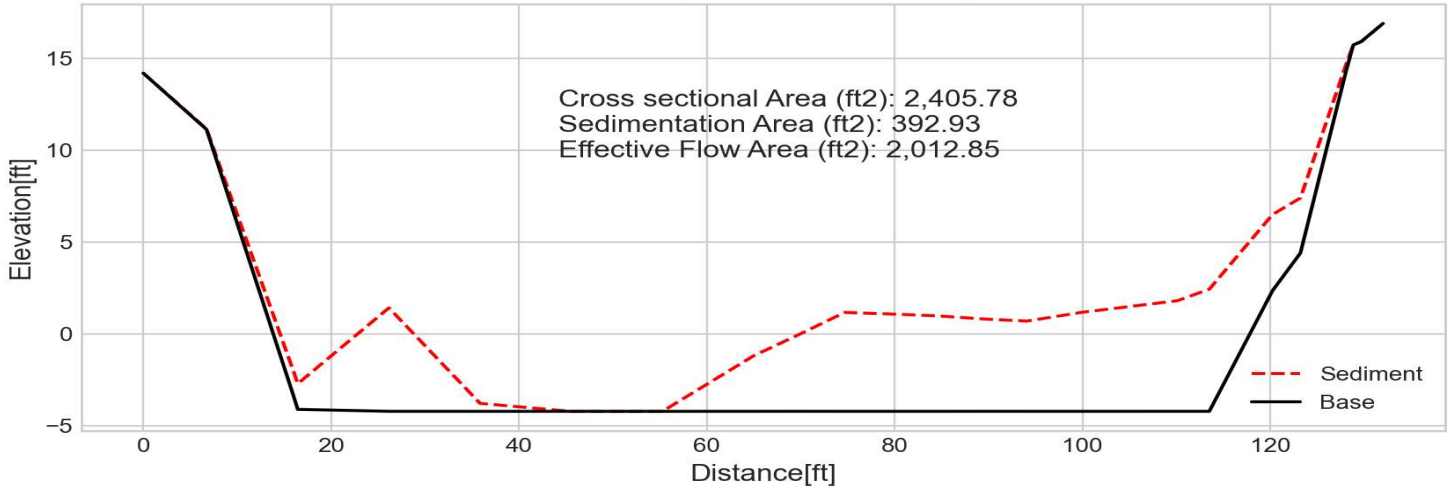
Year 5 (Station: 162+00)



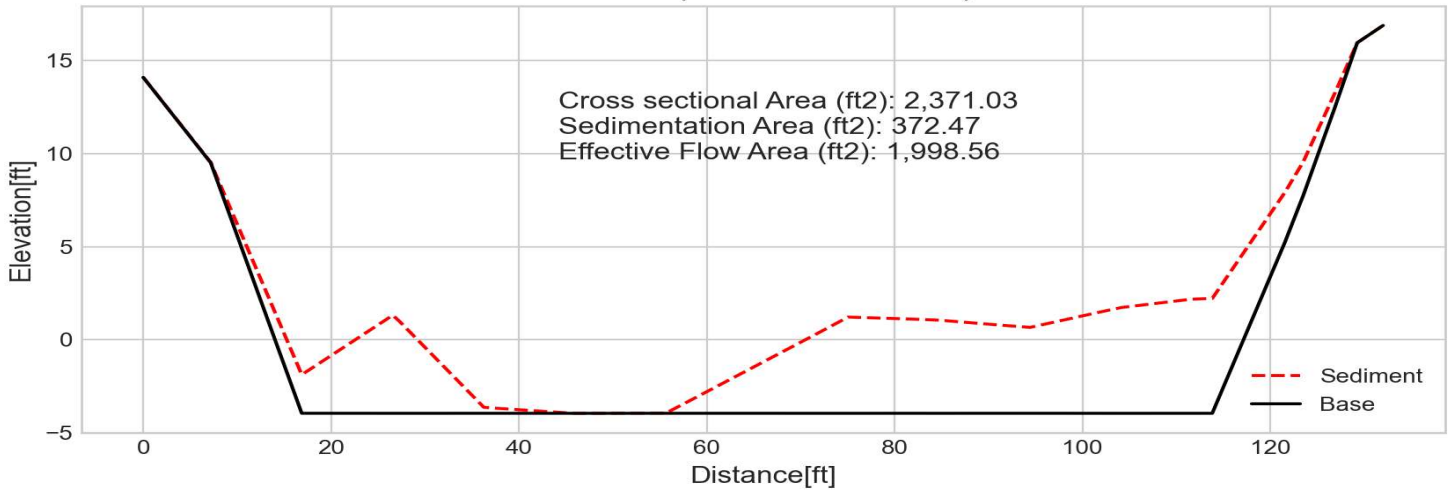
Year 5 (Station: 163+00)



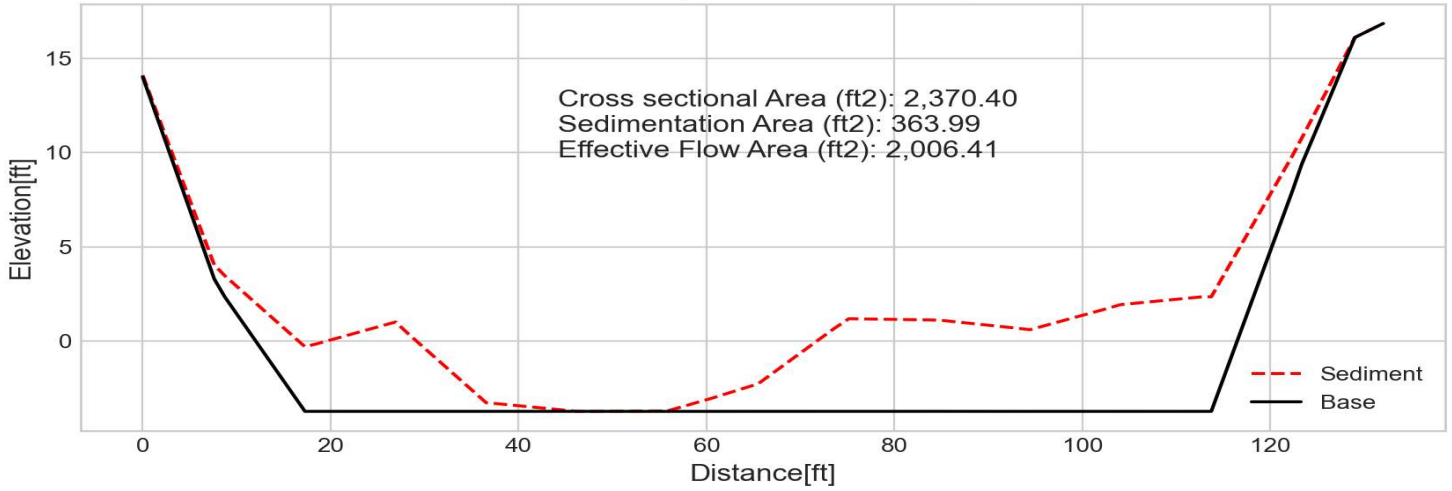
Year 5 (Station: 164+00)



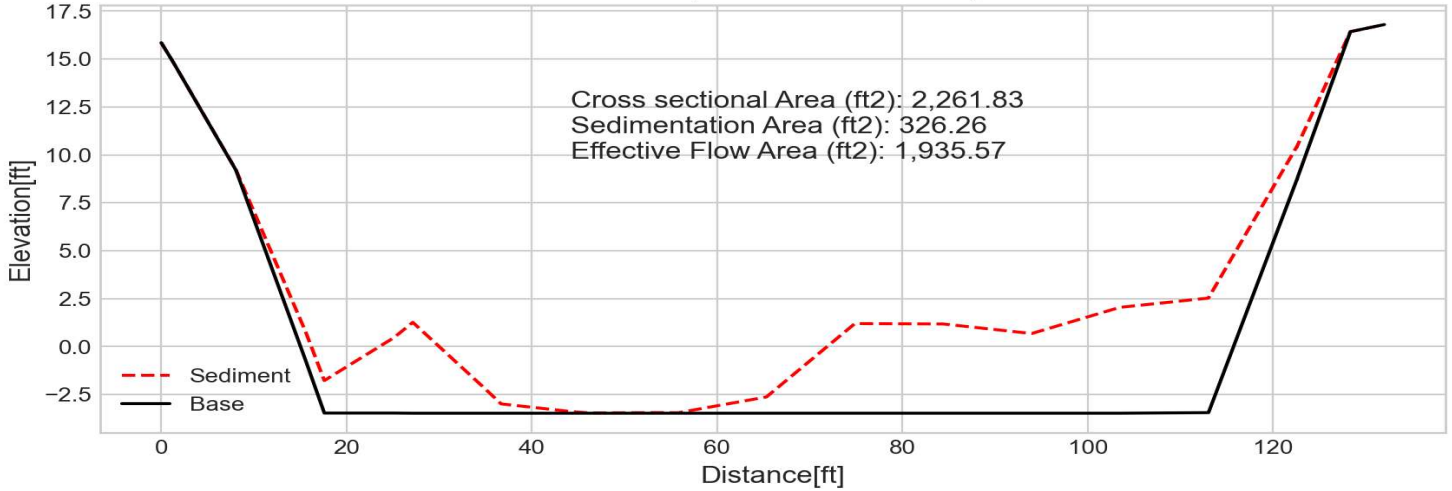
Year 5 (Station: 165+00)



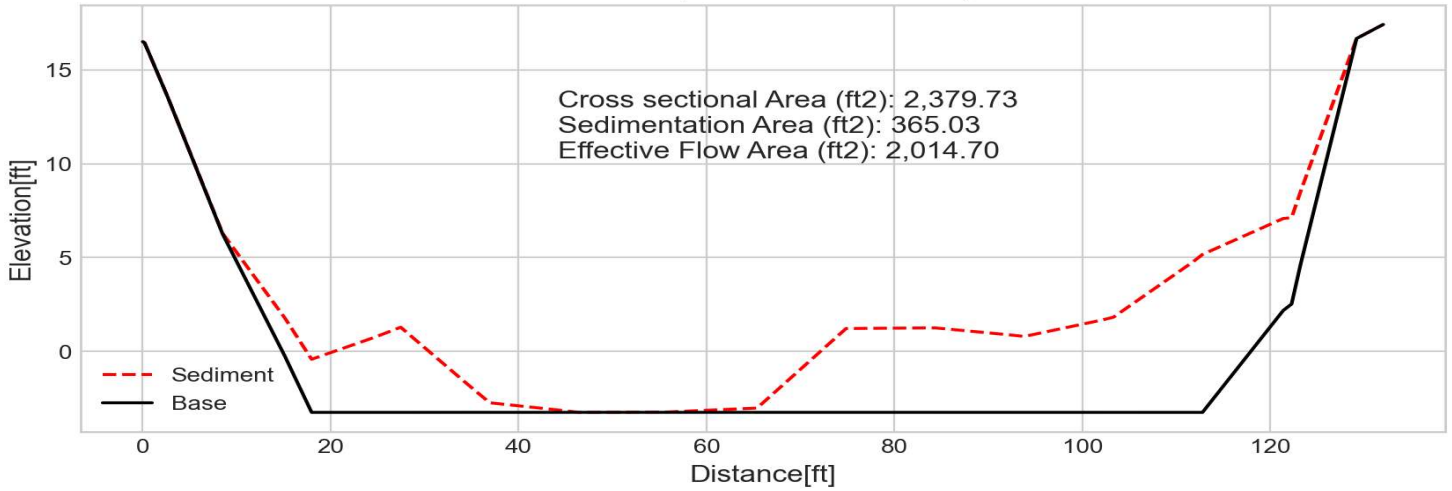
Year 5 (Station: 166+00)



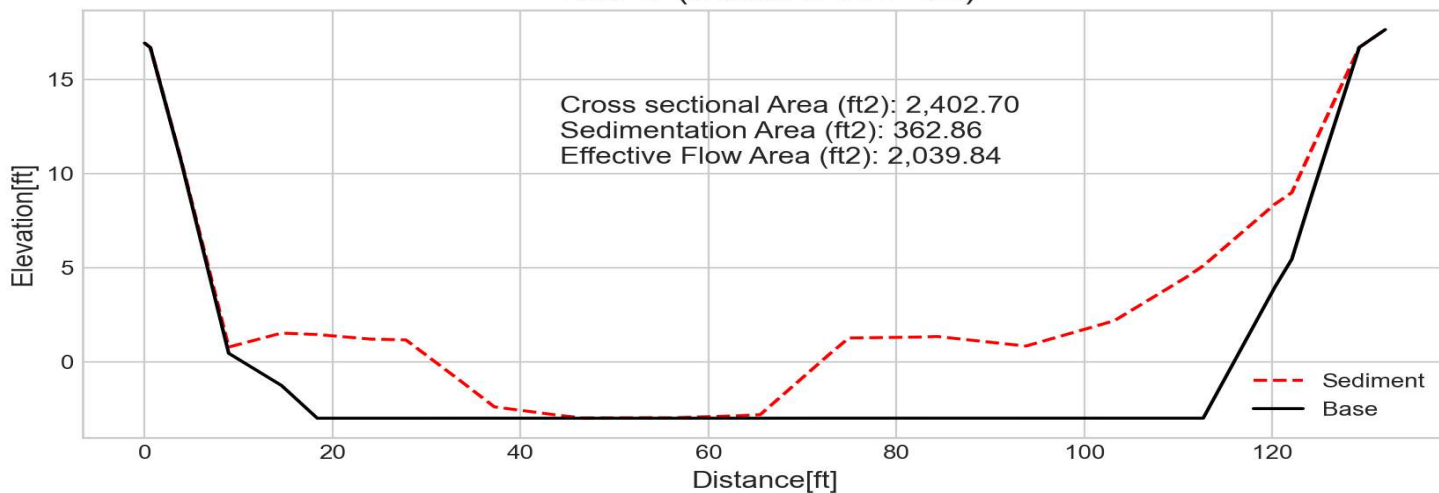
Year 5 (Station: 167+00)



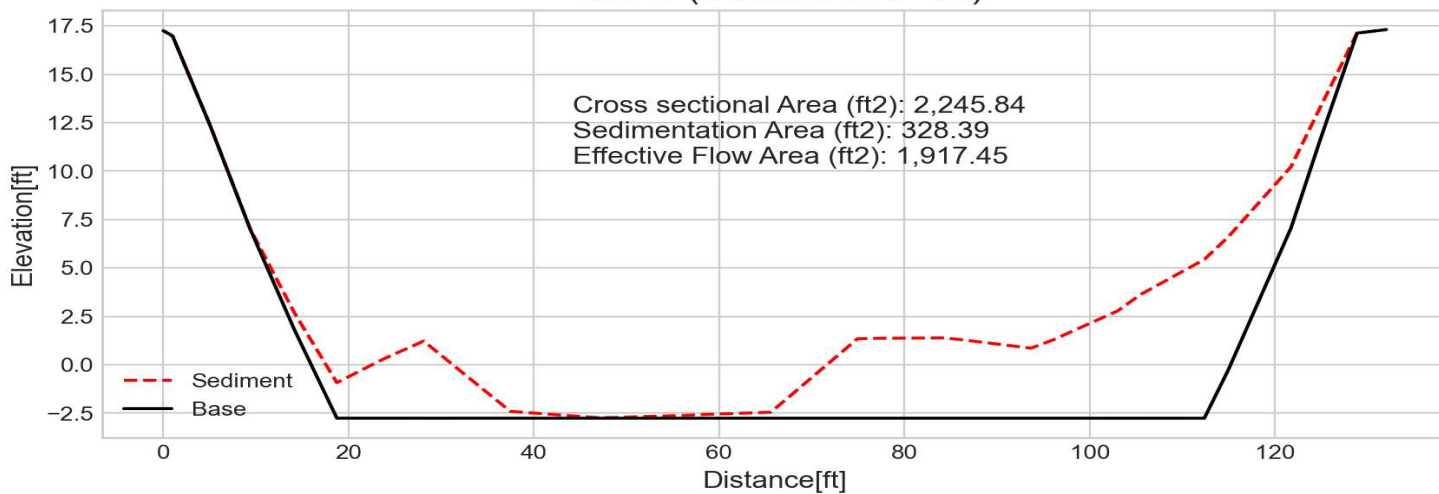
Year 5 (Station: 168+00)



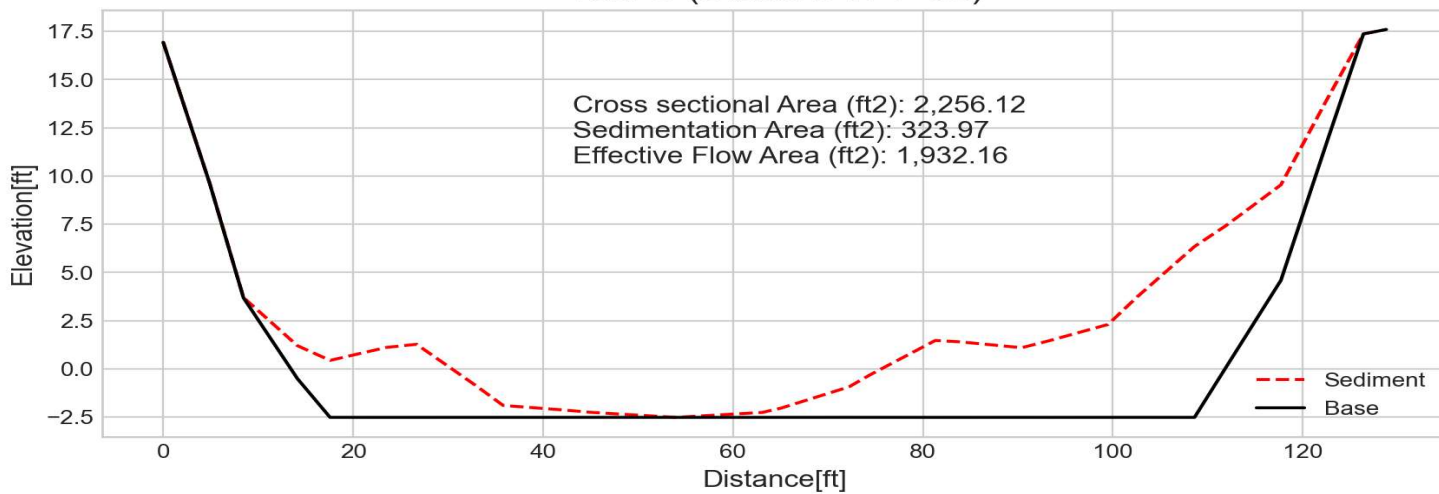
Year 5 (Station: 169+00)



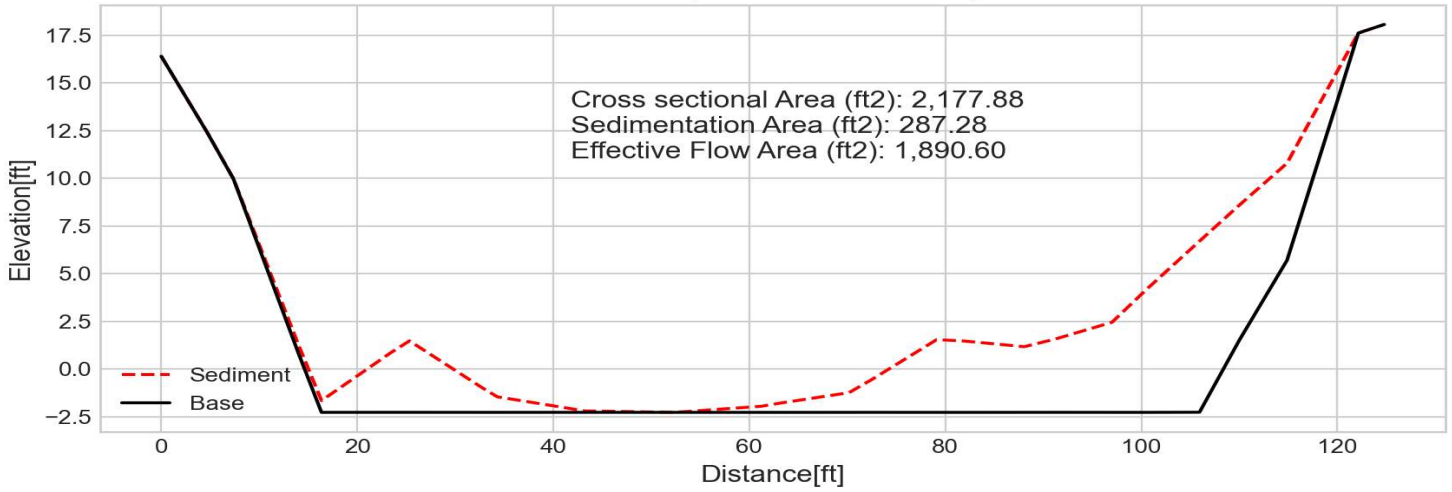
Year 5 (Station: 170+00)



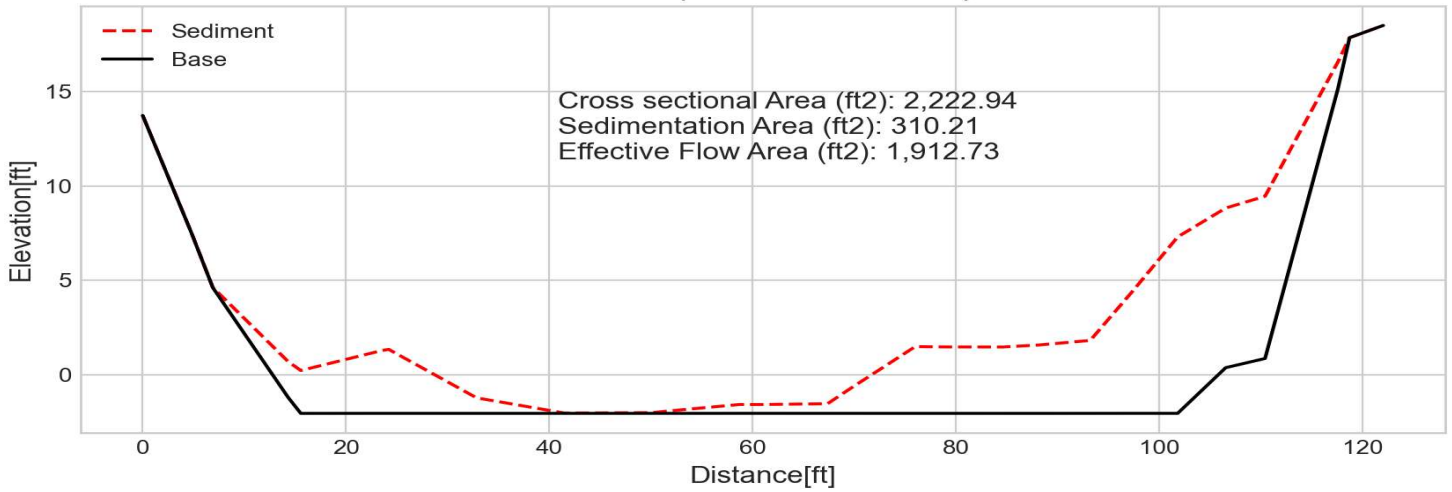
Year 5 (Station: 171+00)



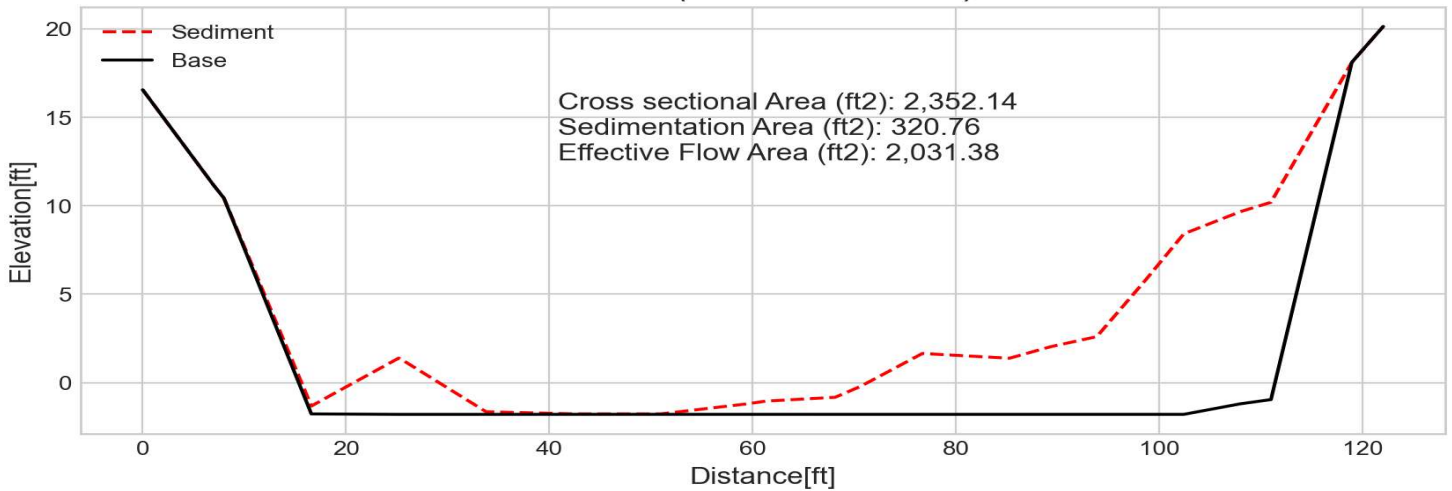
Year 5 (Station: 172+00)



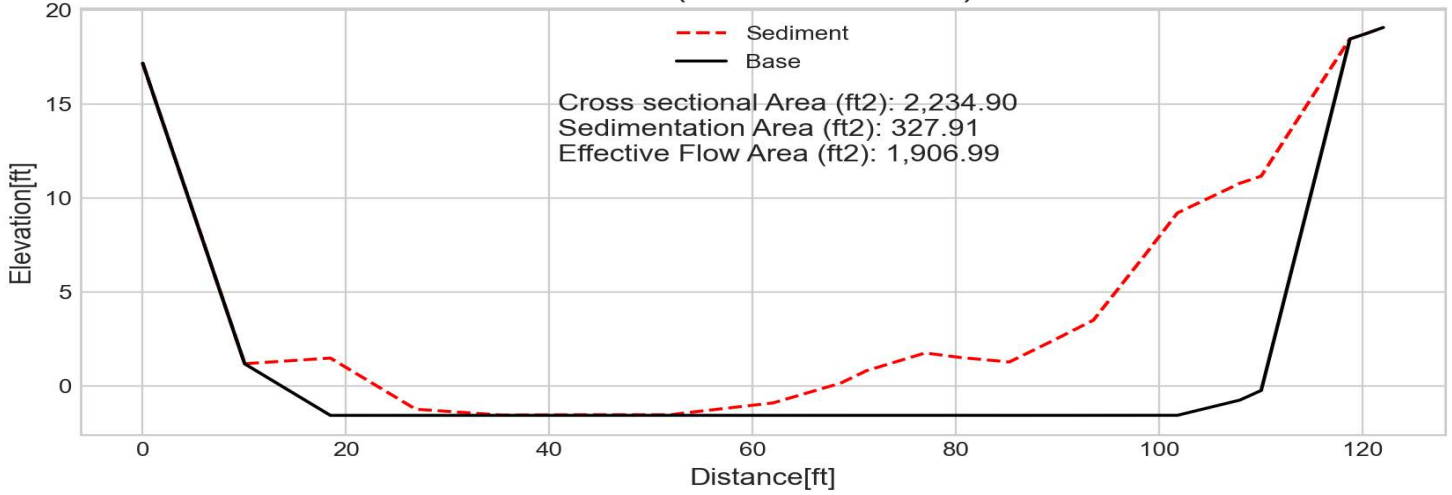
Year 5 (Station: 173+00)



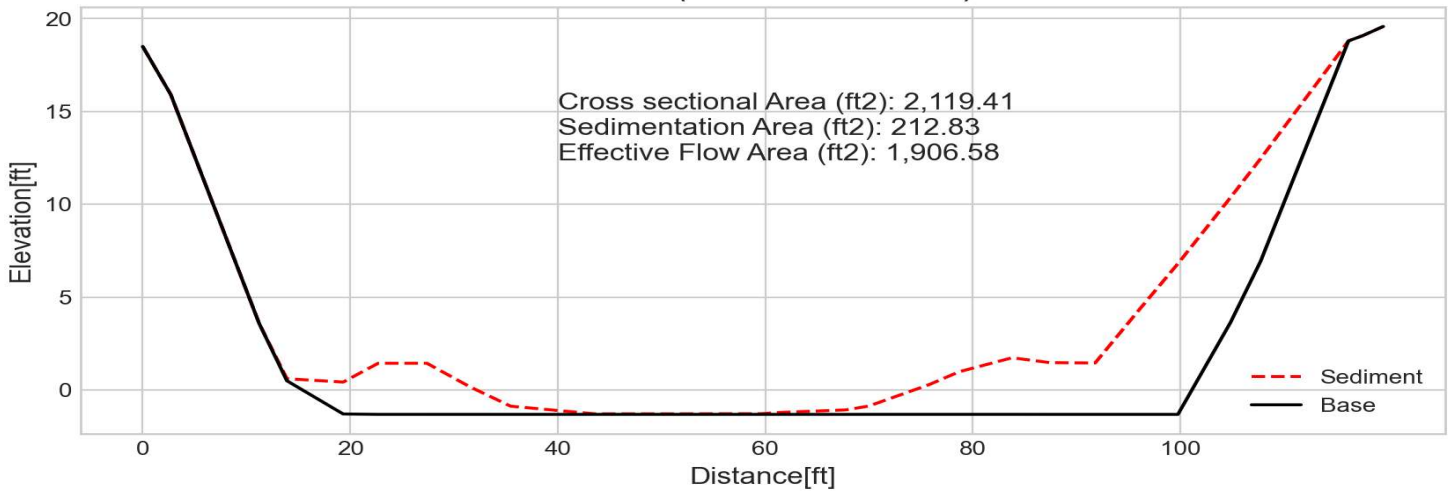
Year 5 (Station: 174+00)



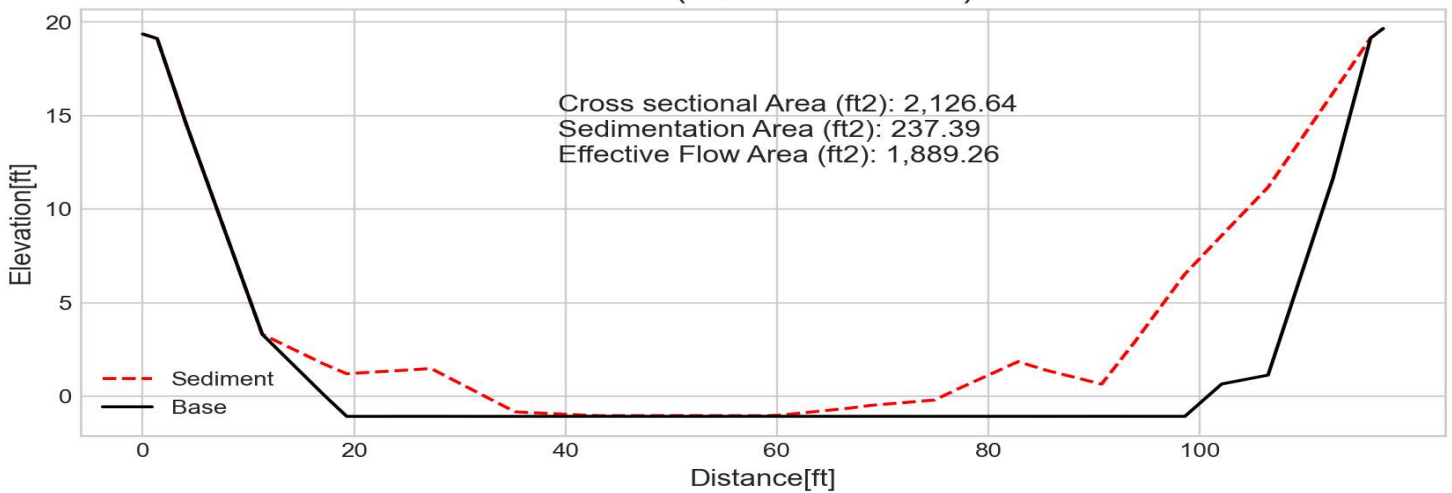
Year 5 (Station: 175+00)



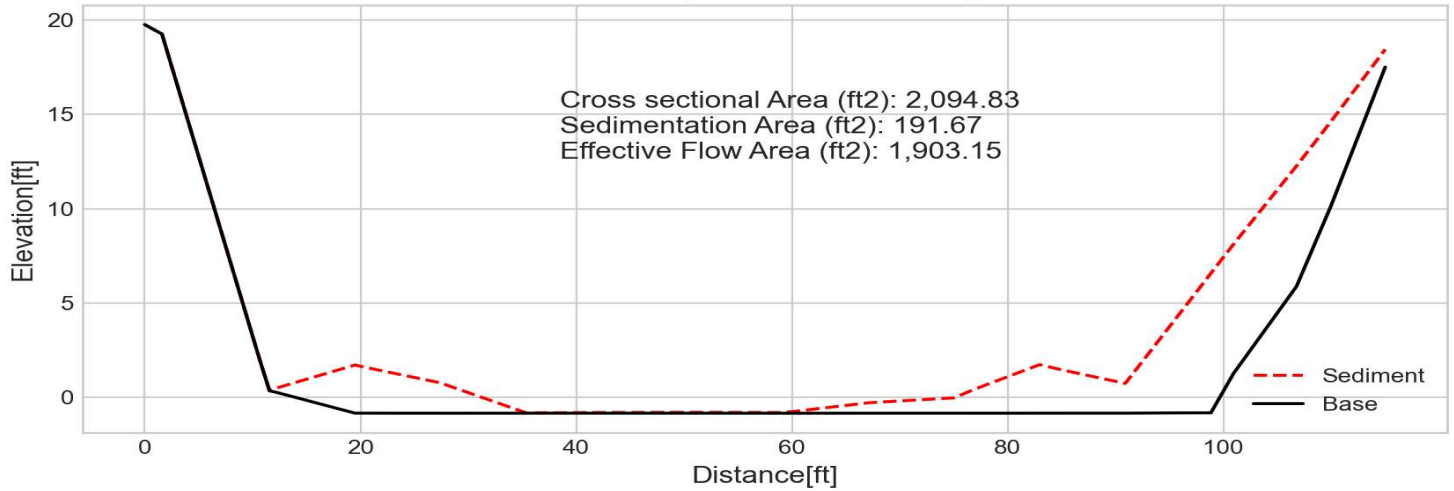
Year 5 (Station: 176+00)



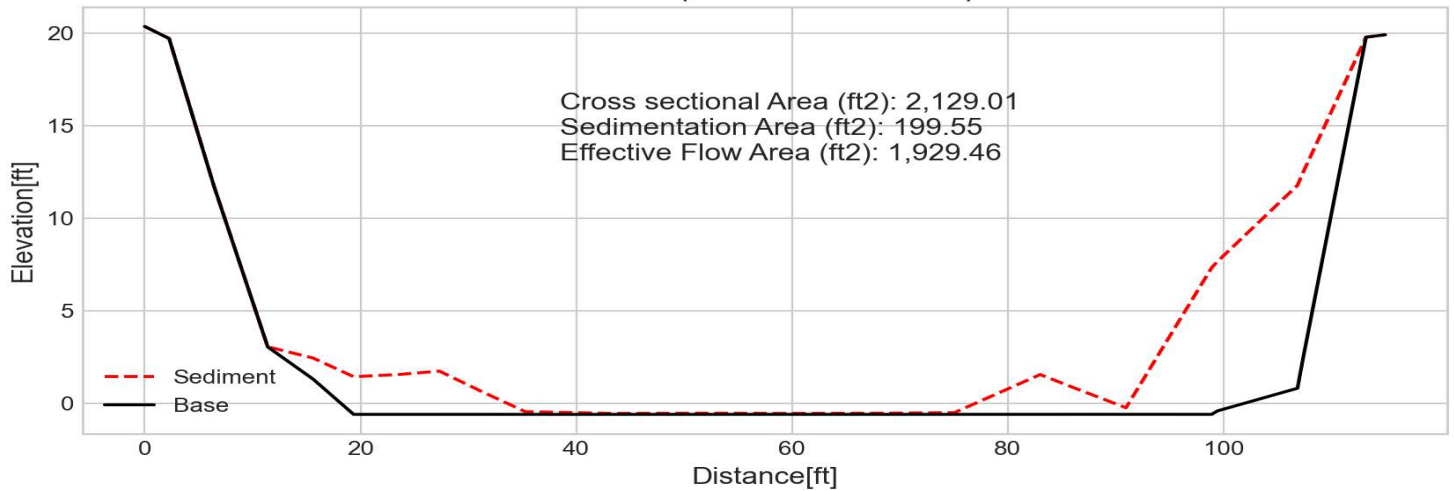
Year 5 (Station: 177+00)



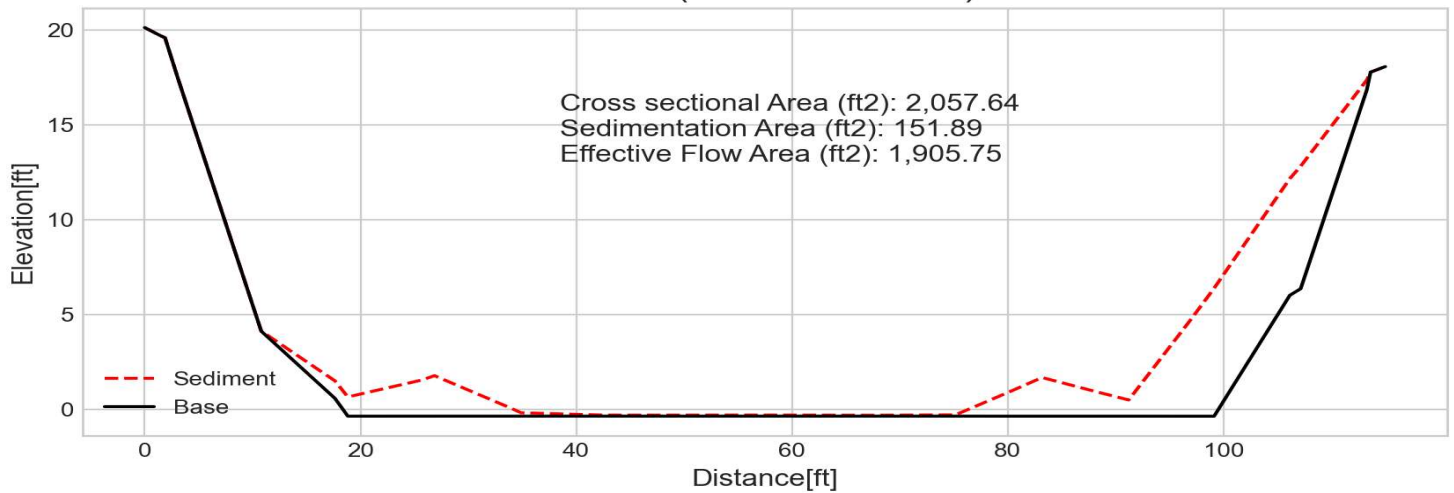
Year 5 (Station: 178+00)



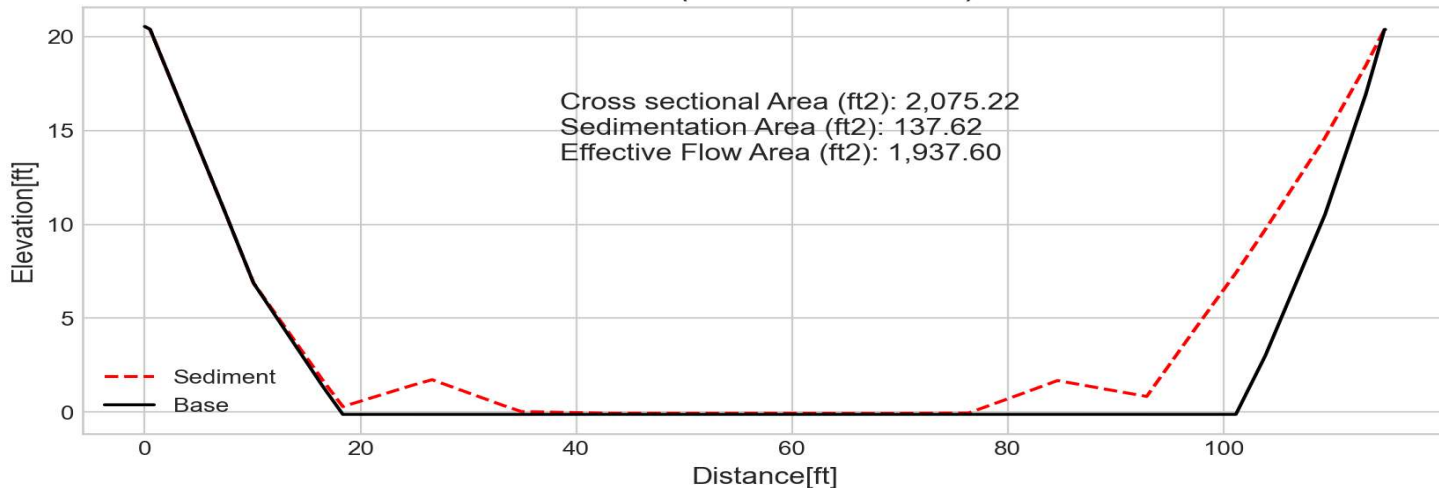
Year 5 (Station: 179+00)



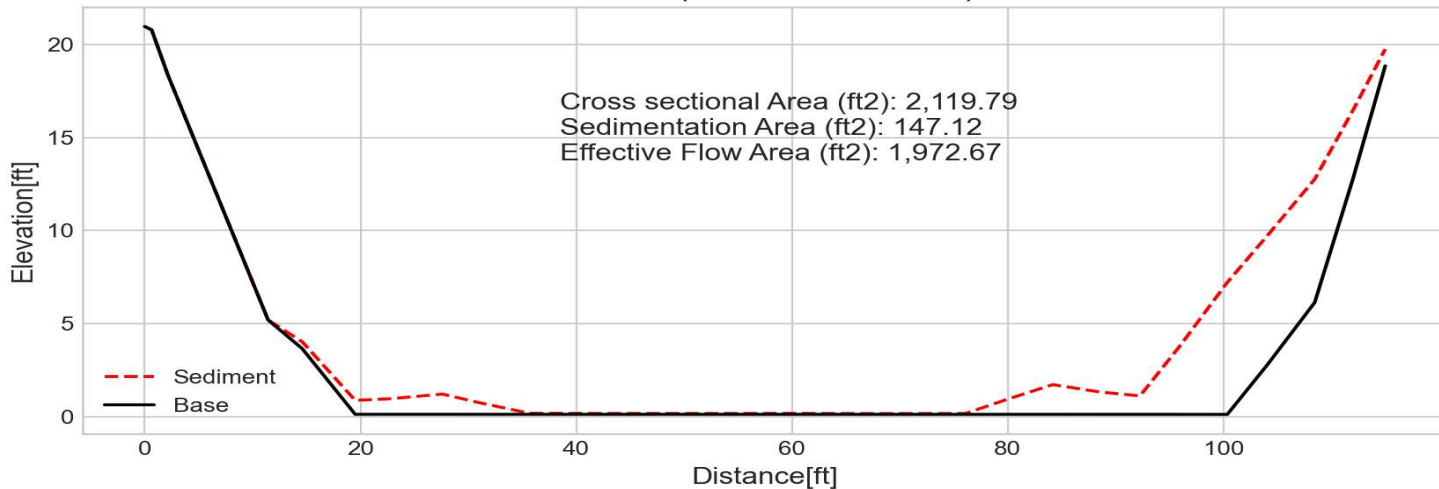
Year 5 (Station: 180+00)



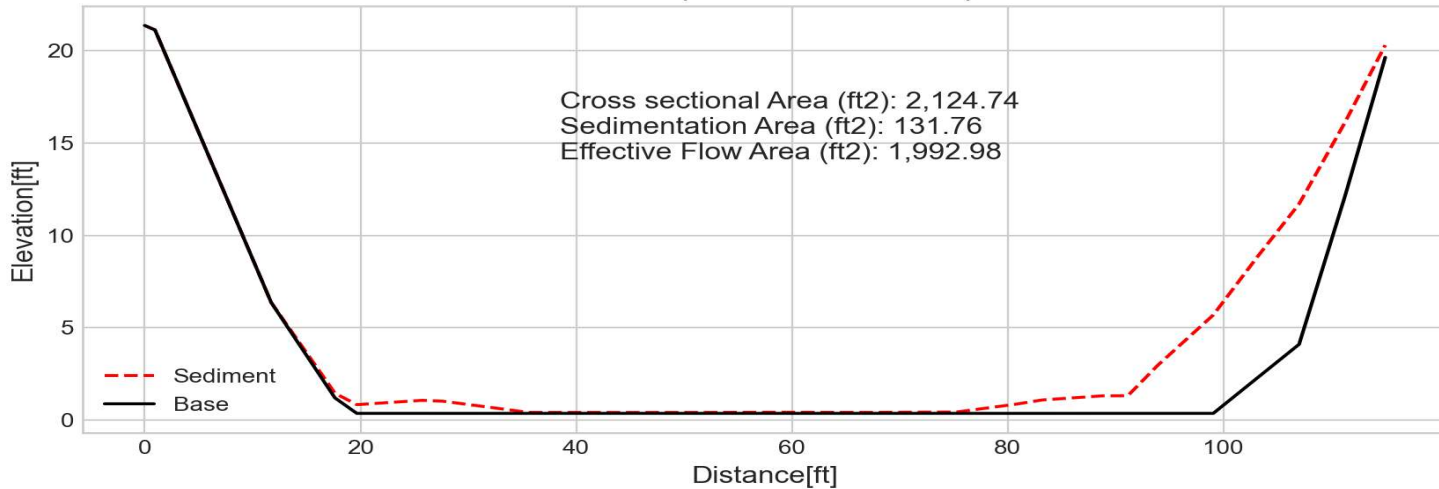
Year 5 (Station: 181+00)



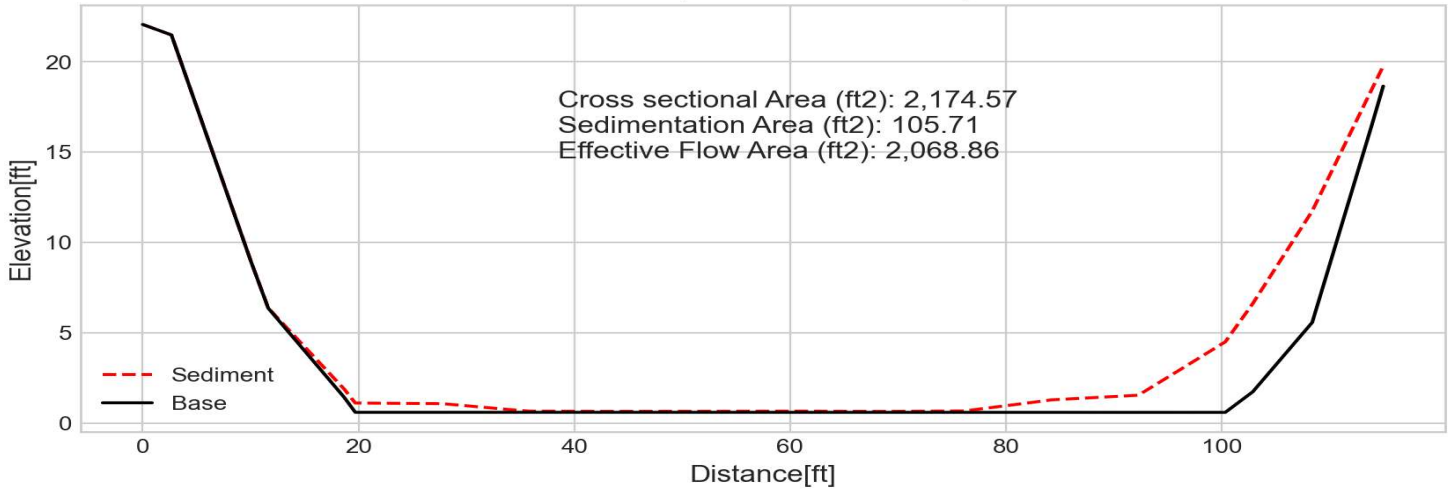
Year 5 (Station: 182+00)



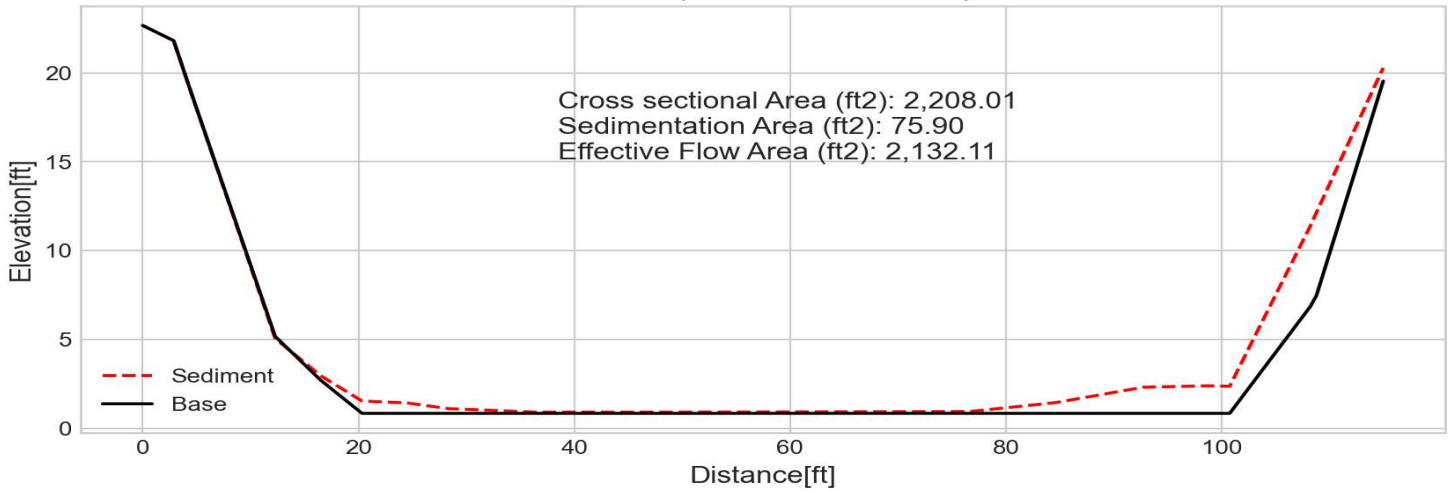
Year 5 (Station: 183+00)



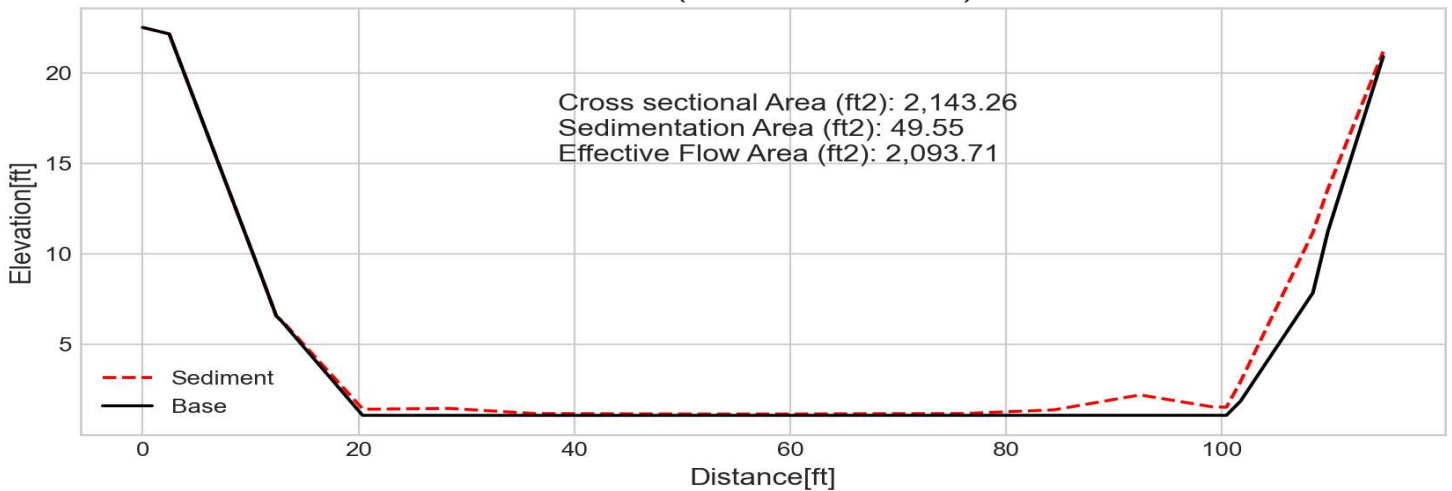
Year 5 (Station: 184+00)



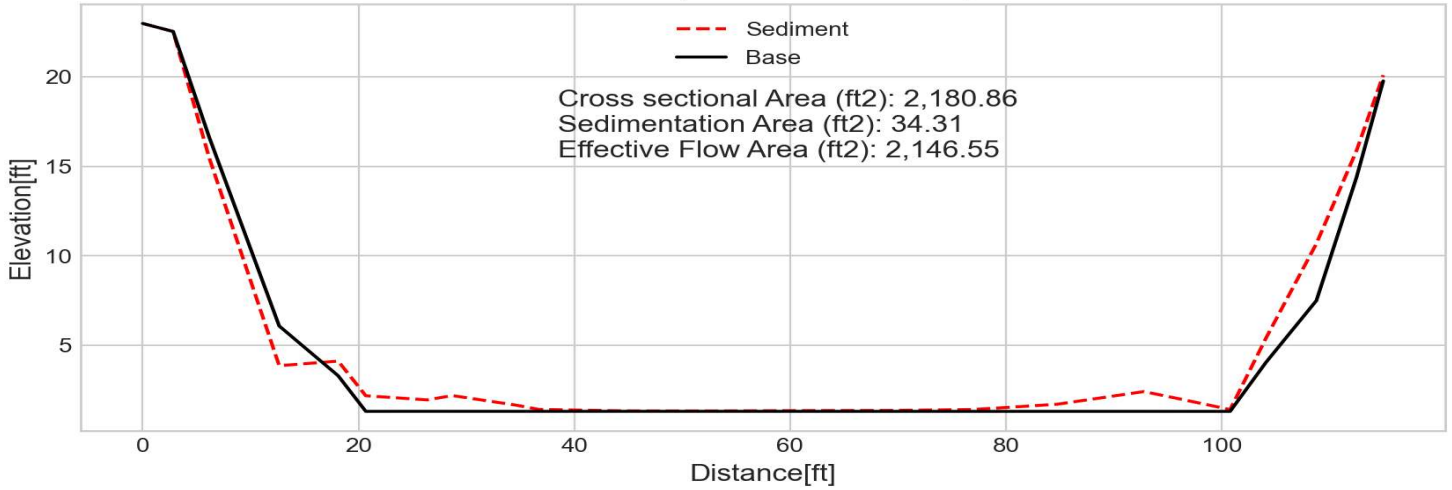
Year 5 (Station: 185+00)



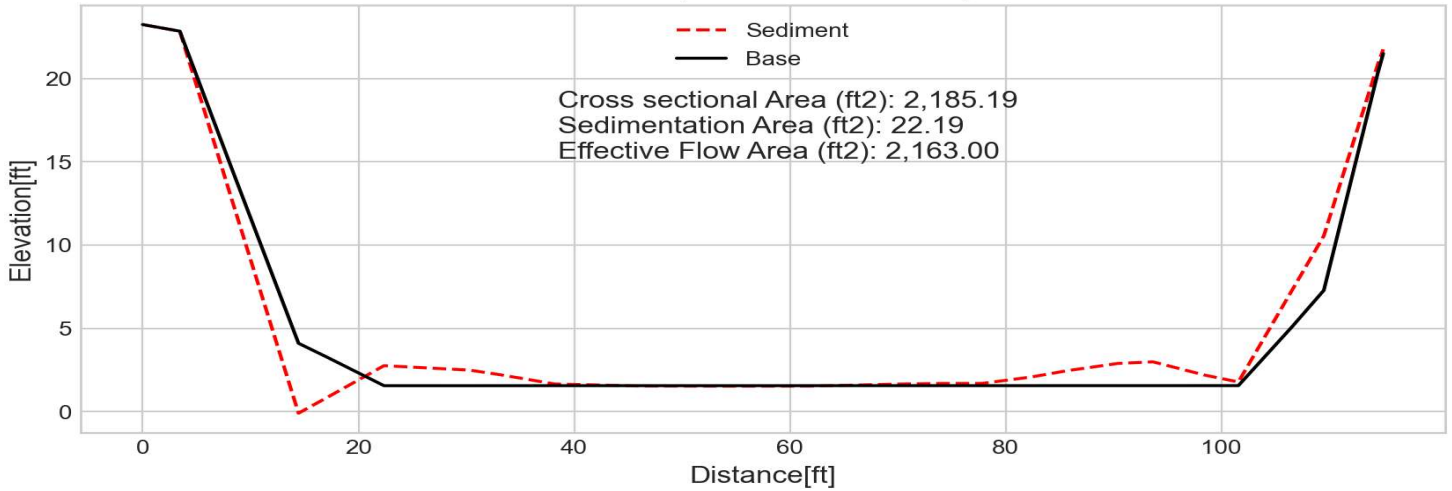
Year 5 (Station: 186+00)



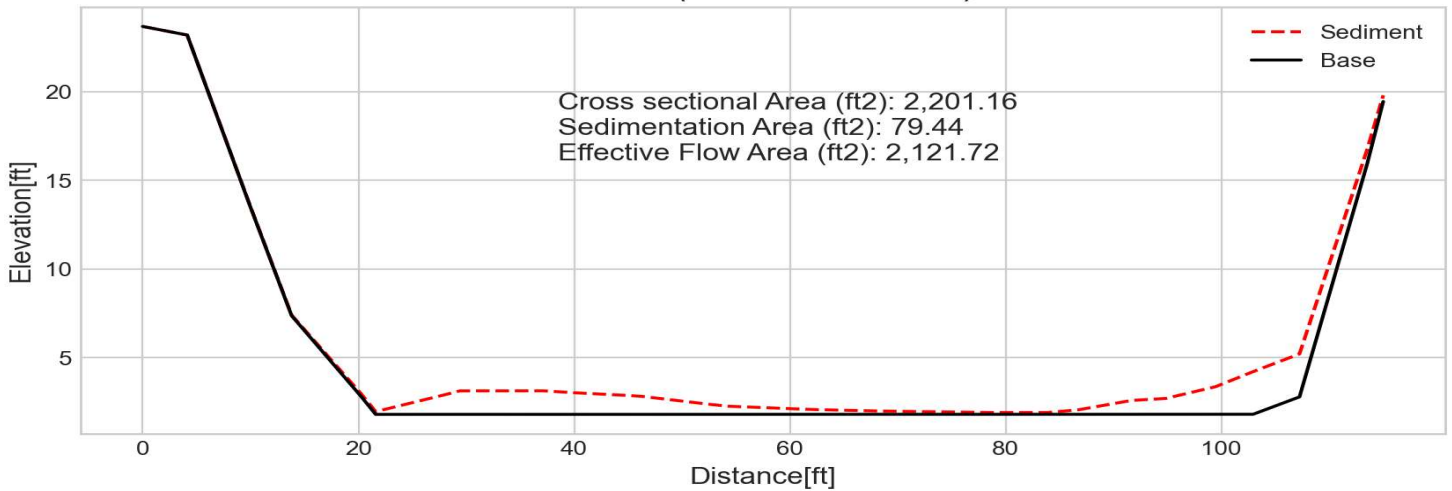
Year 5 (Station: 187+00)



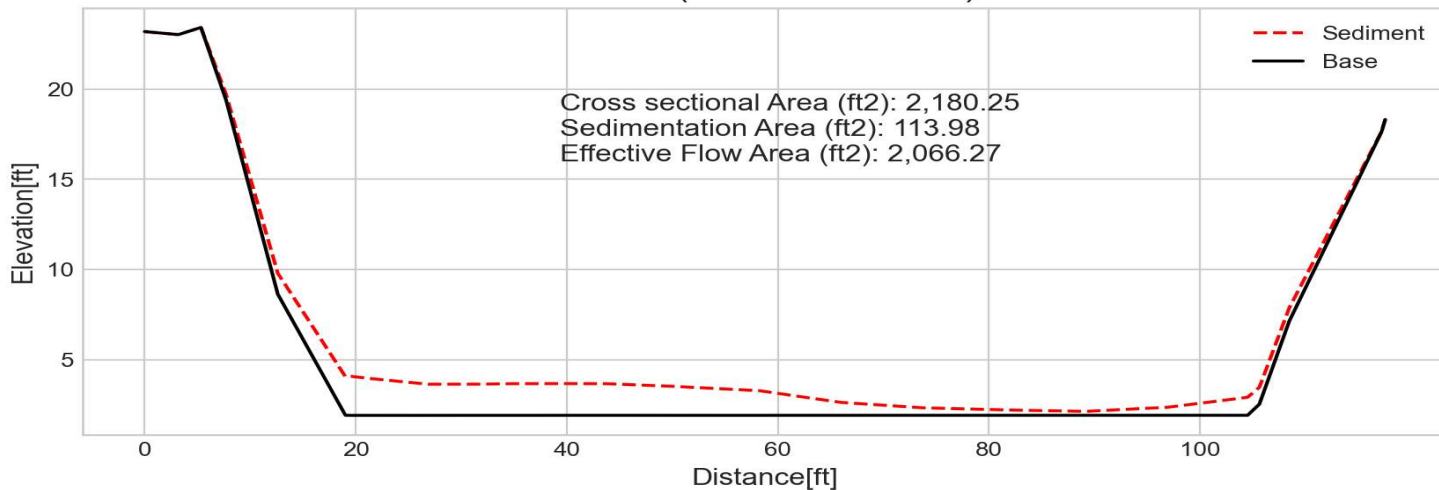
Year 5 (Station: 188+00)



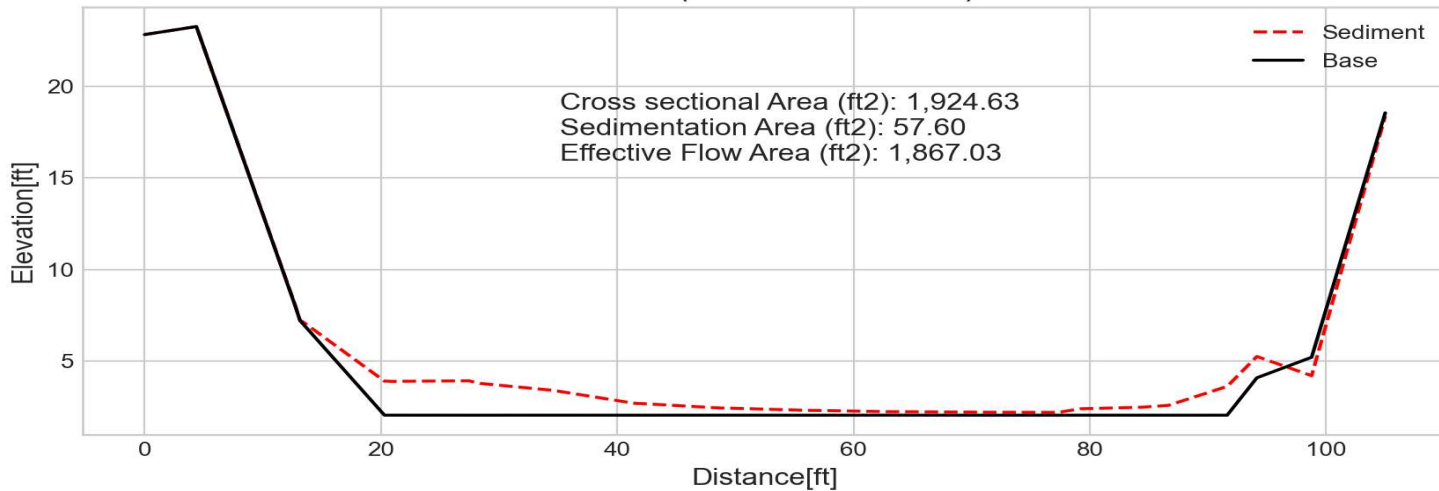
Year 5 (Station: 189+00)



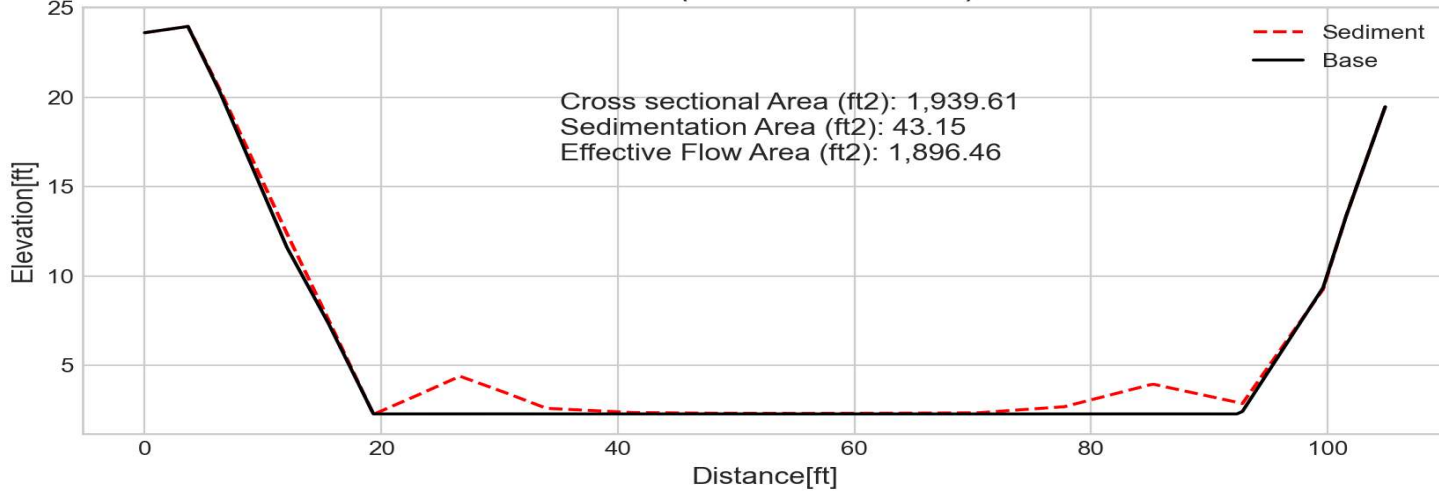
Year 5 (Station: 189+49)



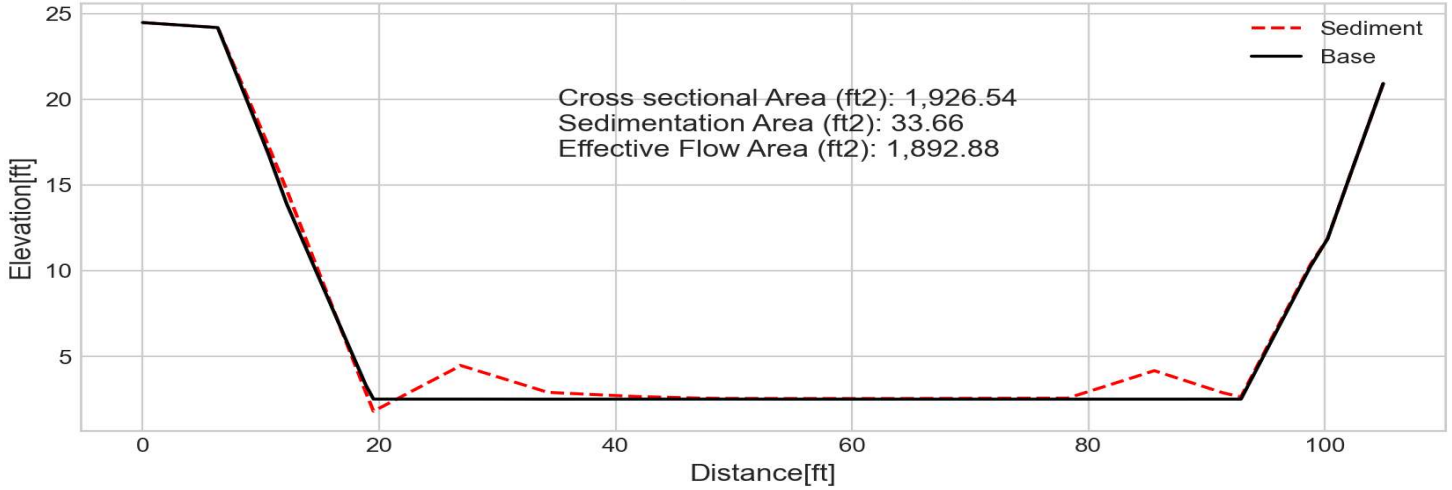
Year 5 (Station: 190+00)



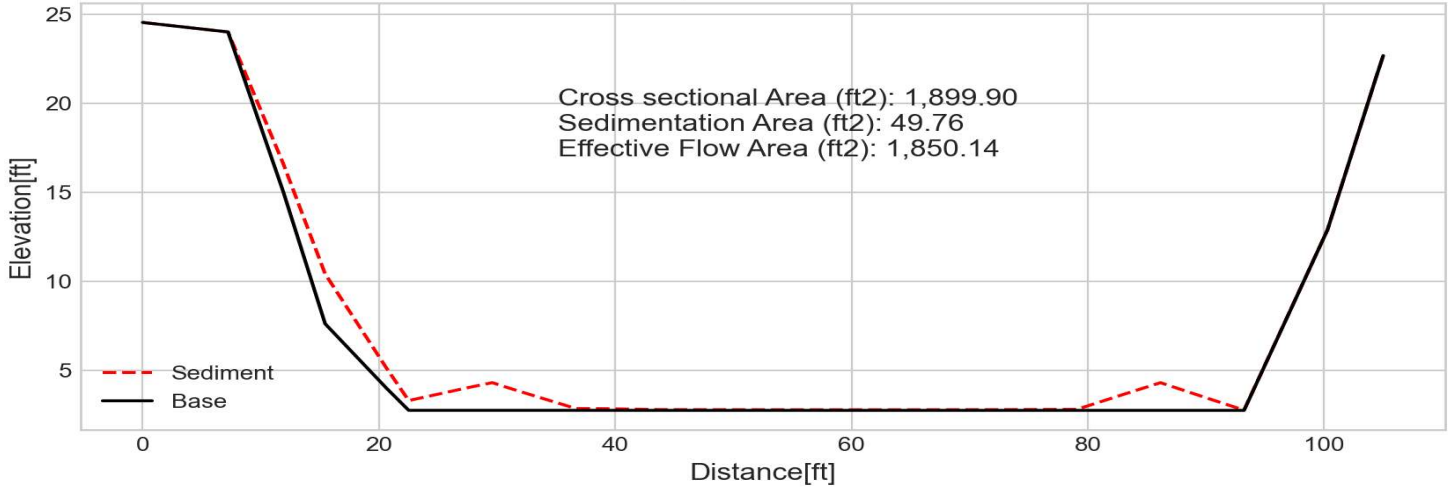
Year 5 (Station: 191+00)



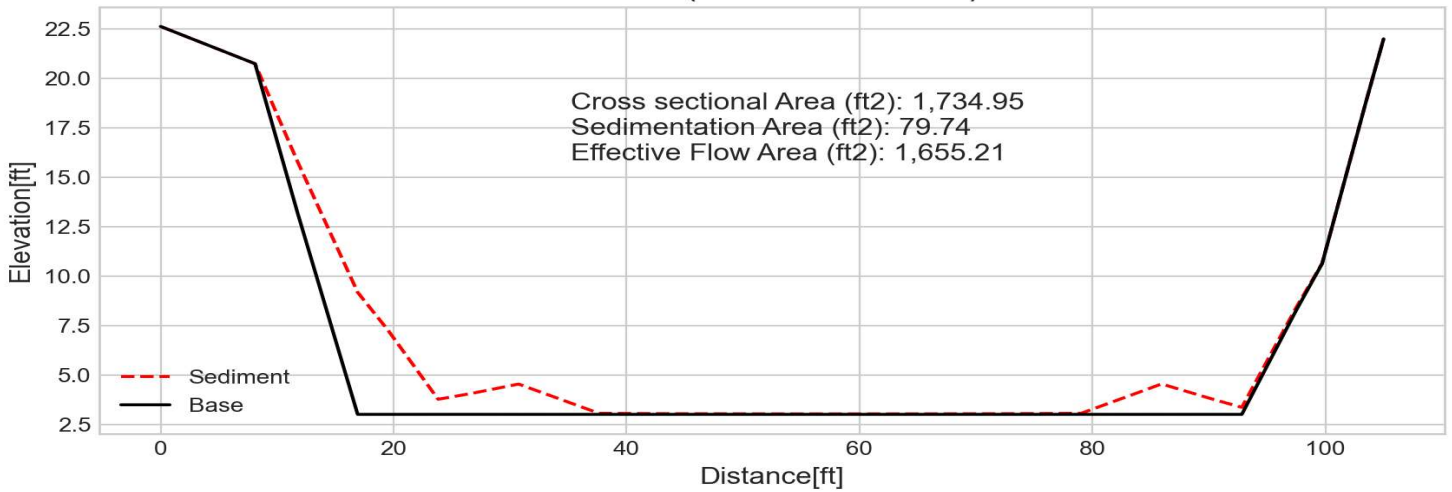
Year 5 (Station: 192+00)



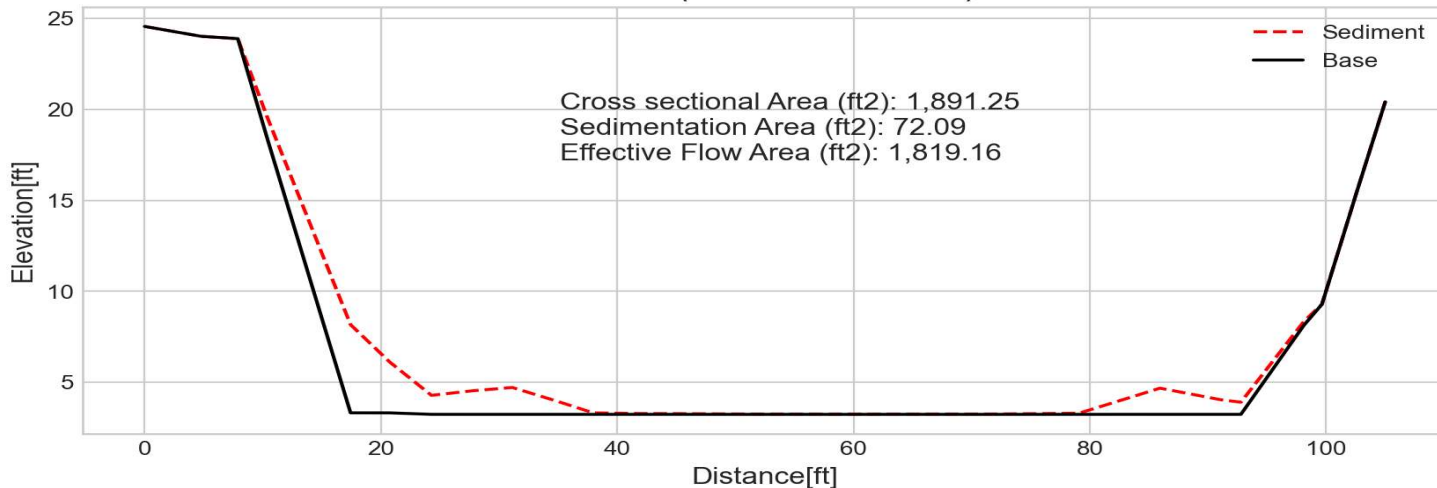
Year 5 (Station: 193+00)



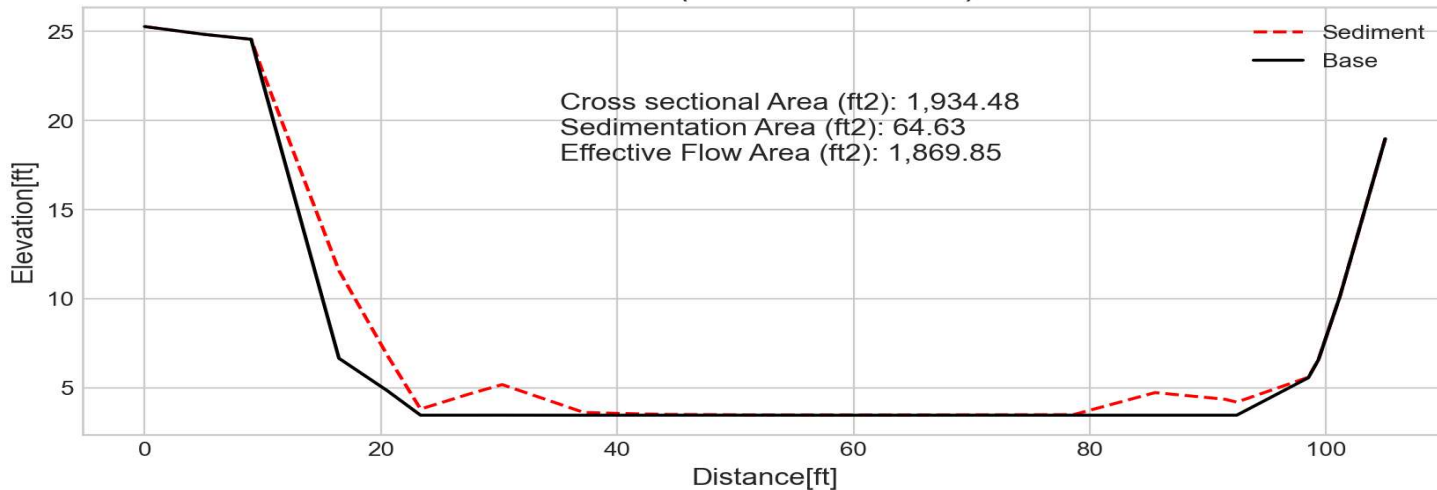
Year 5 (Station: 194+00)



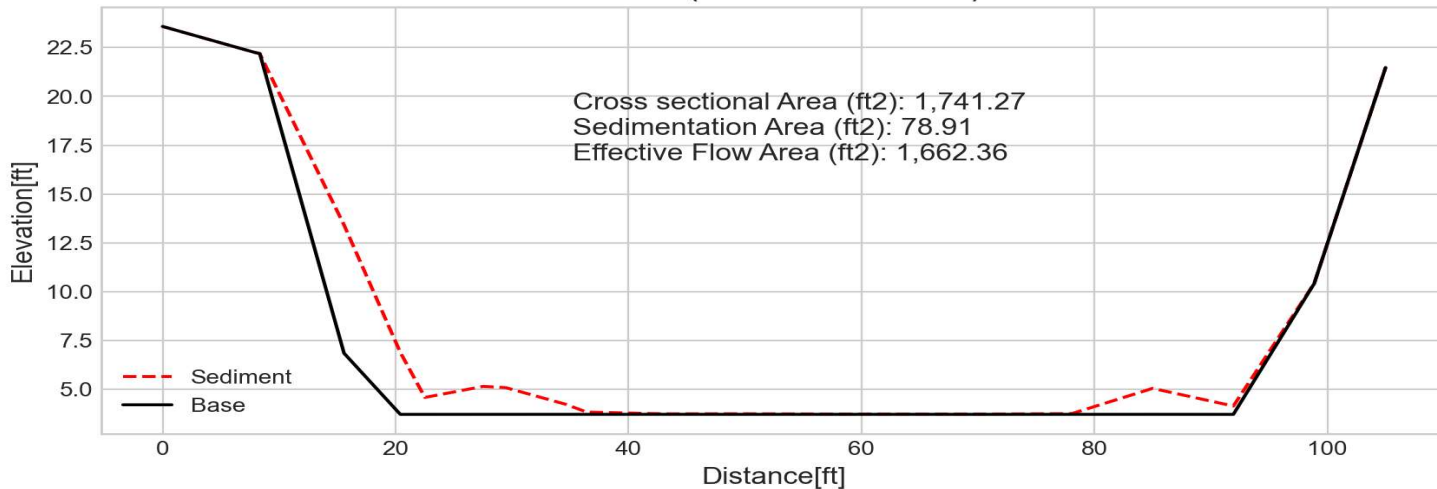
Year 5 (Station: 195+00)



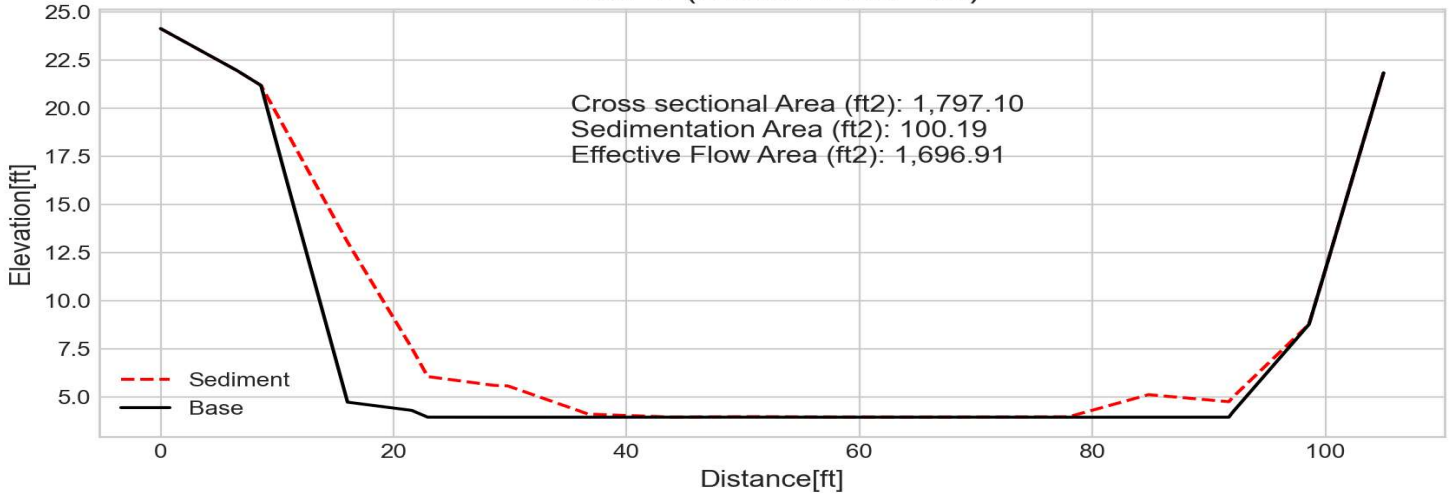
Year 5 (Station: 196+00)



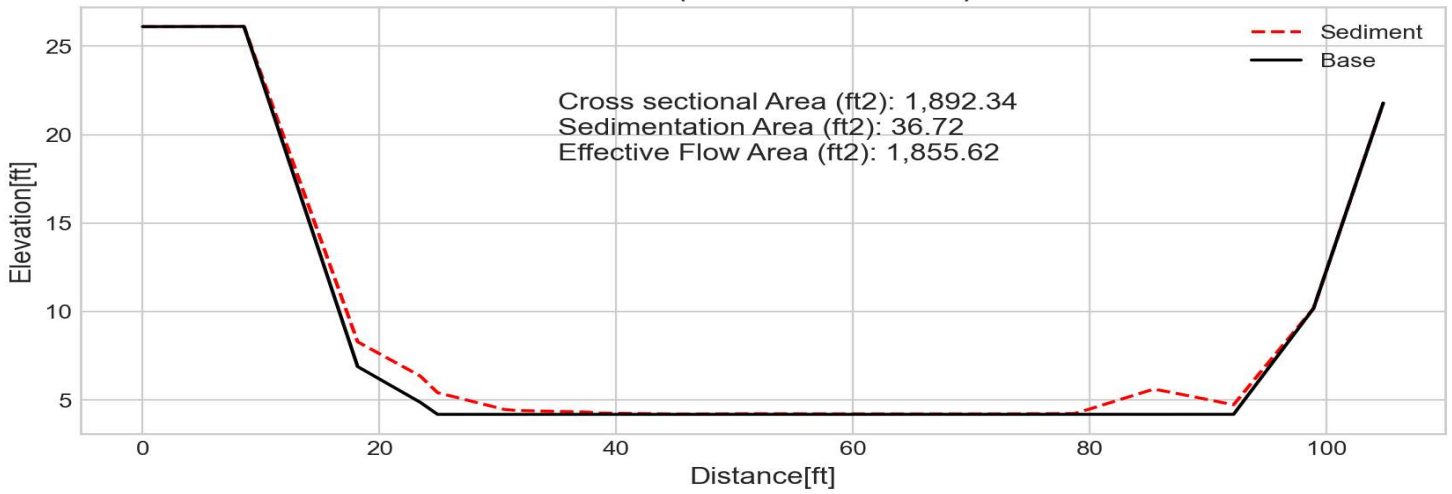
Year 5 (Station: 197+00)



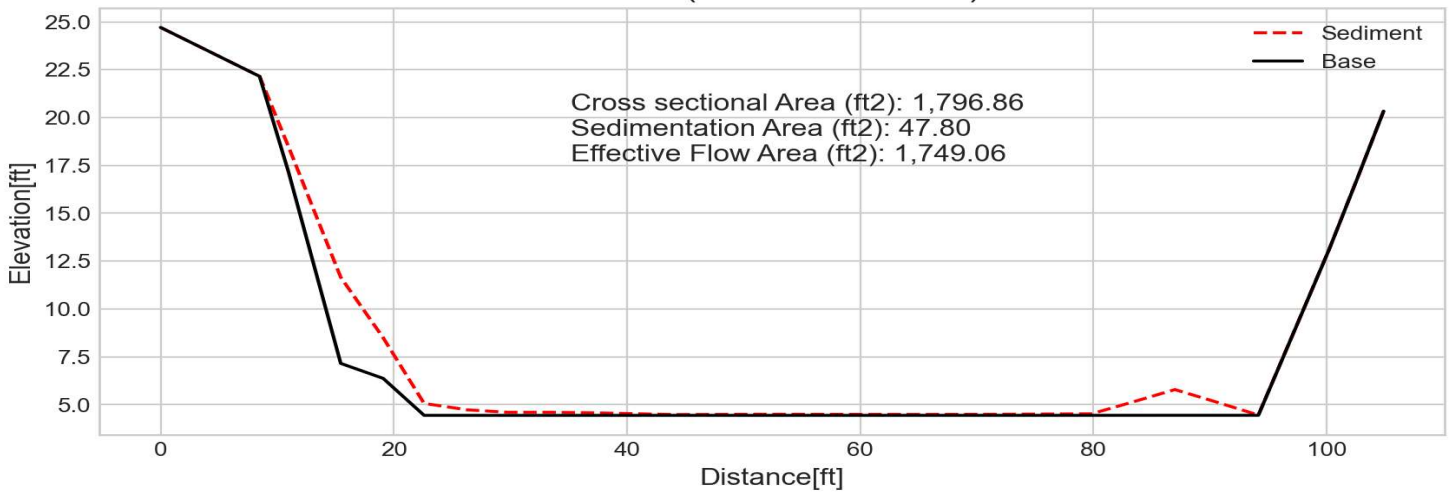
Year 5 (Station: 198+00)



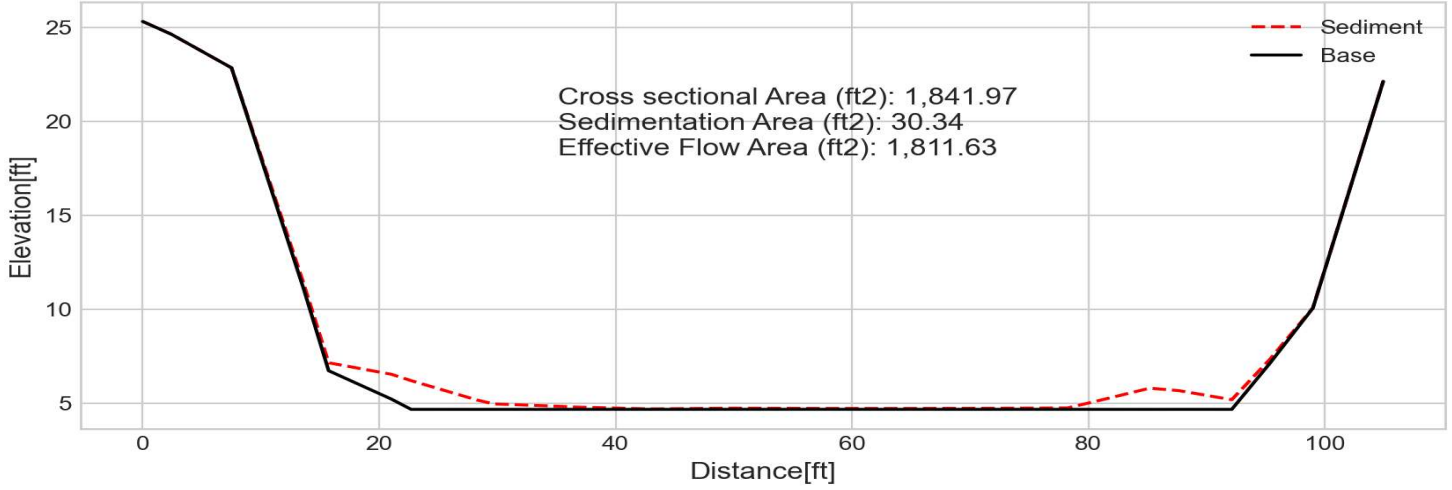
Year 5 (Station: 199+00)



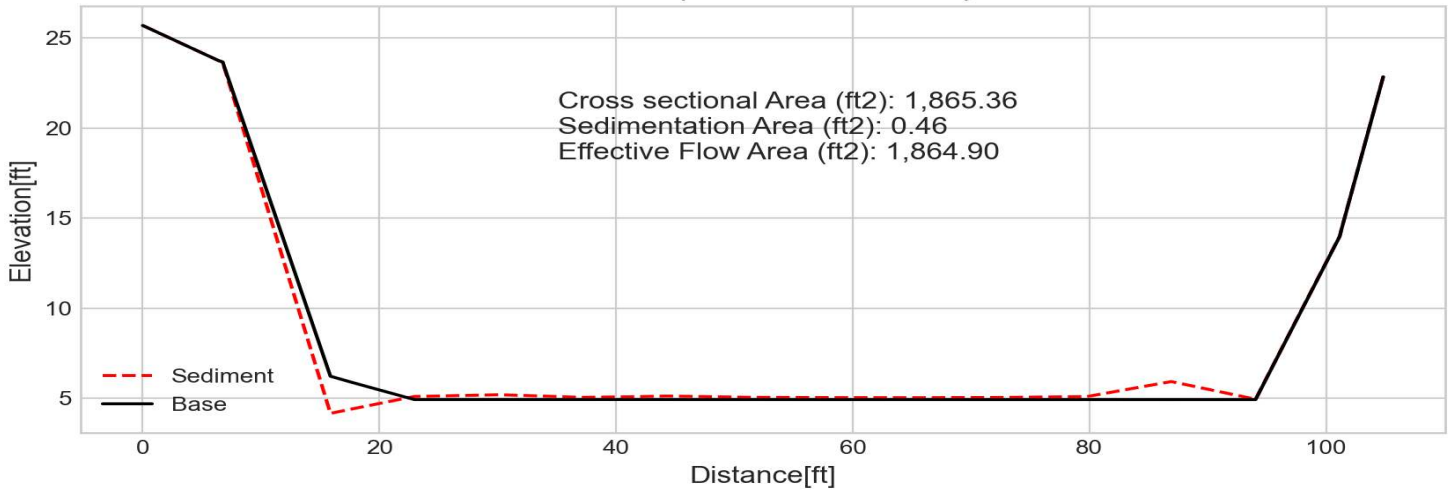
Year 5 (Station: 200+00)



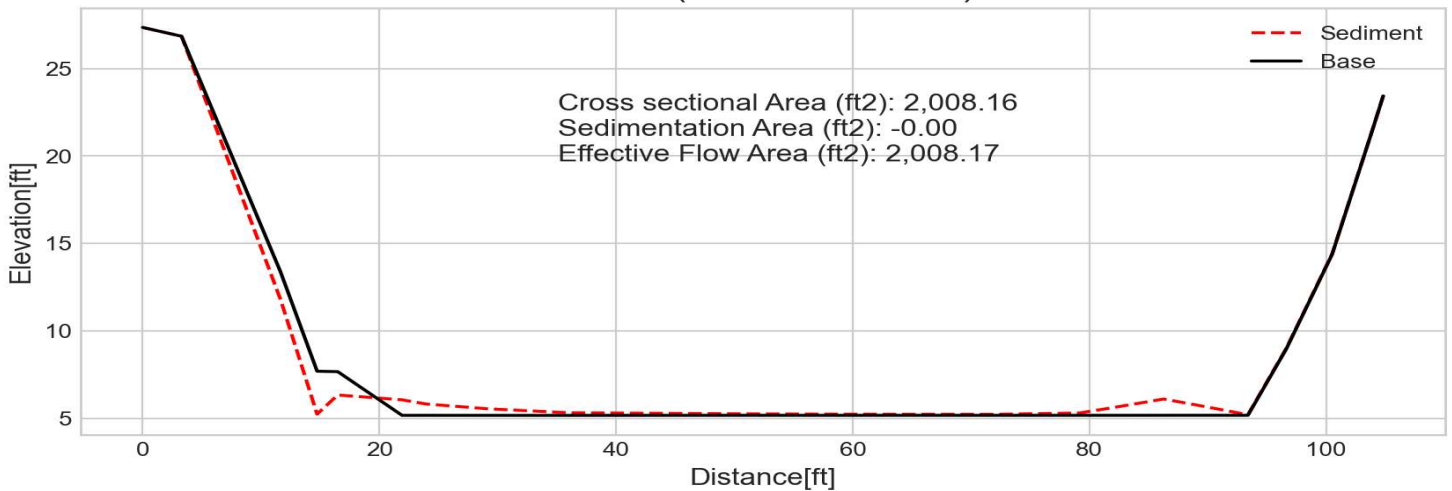
Year 5 (Station: 201+00)



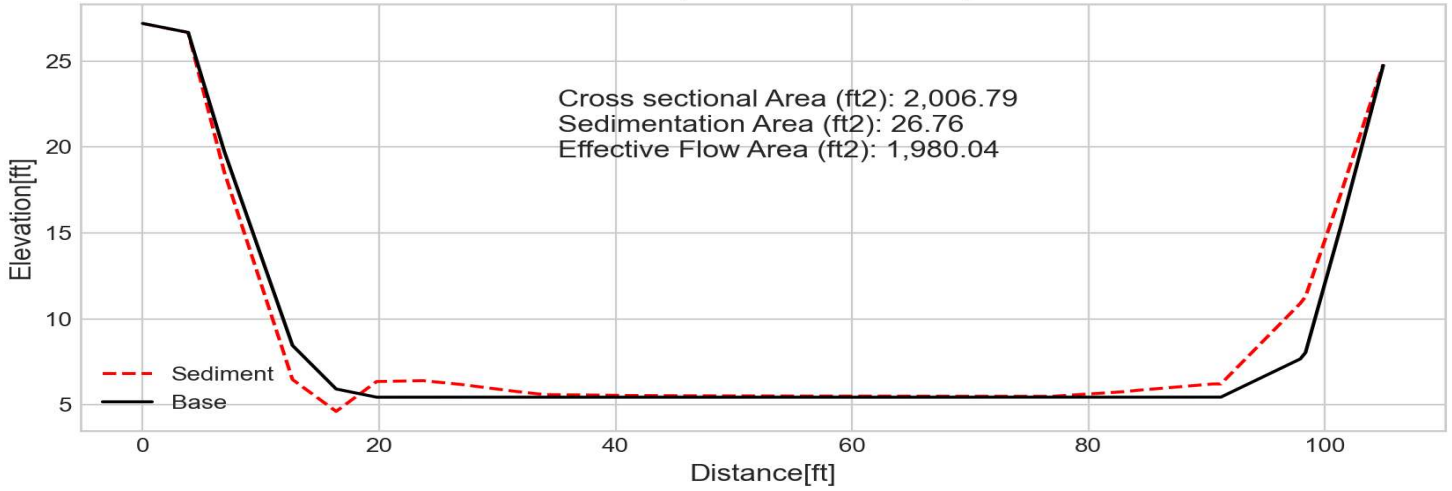
Year 5 (Station: 202+00)



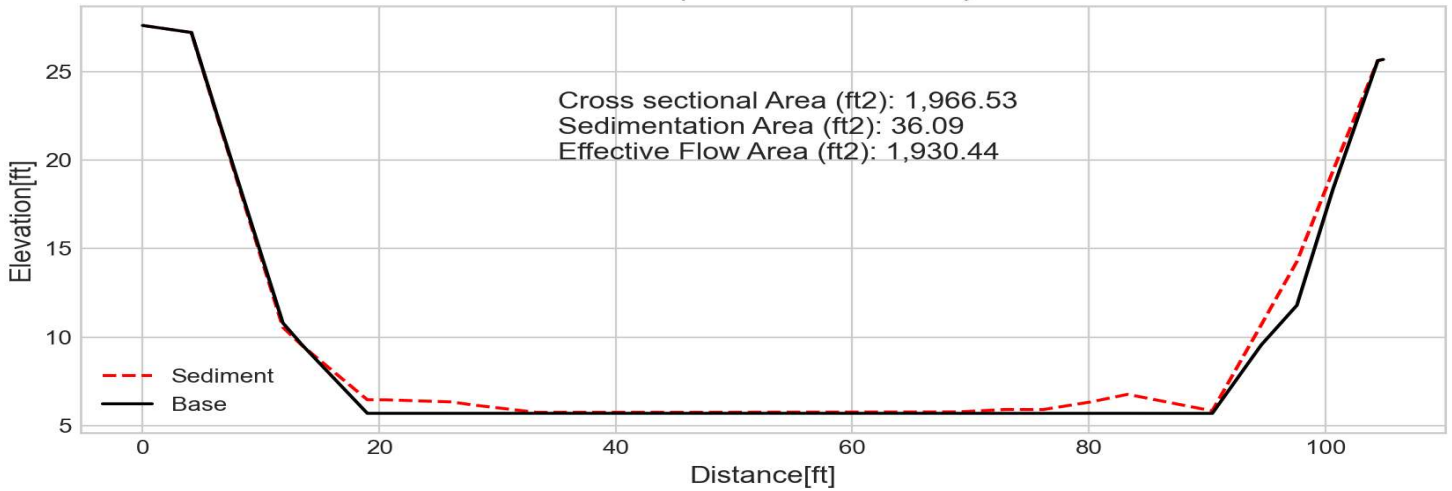
Year 5 (Station: 203+00)



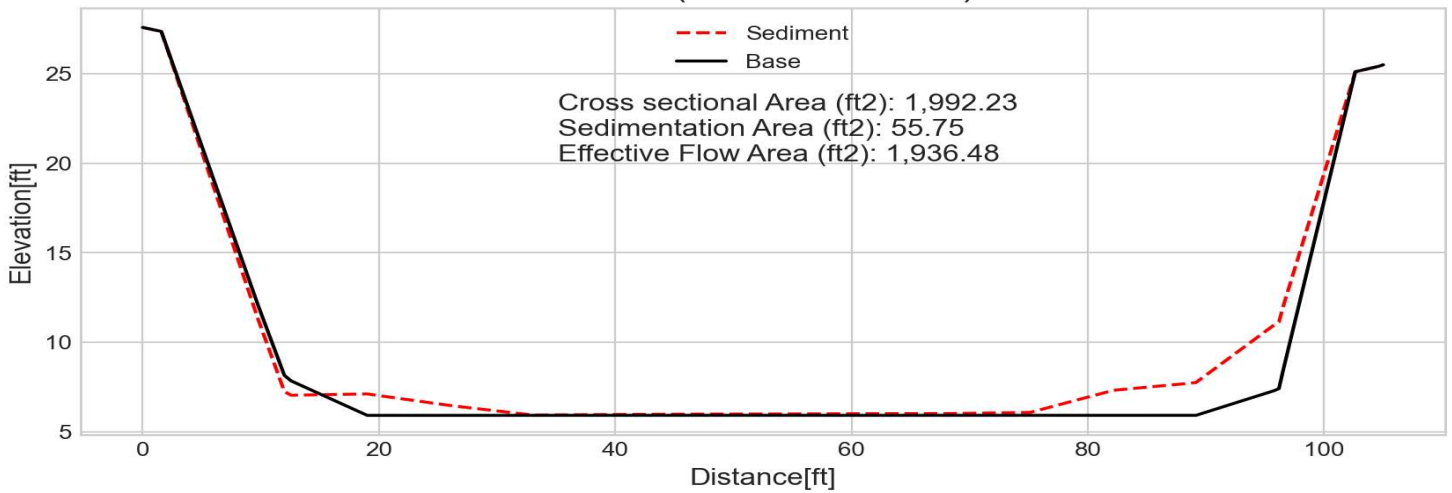
Year 5 (Station: 204+00)



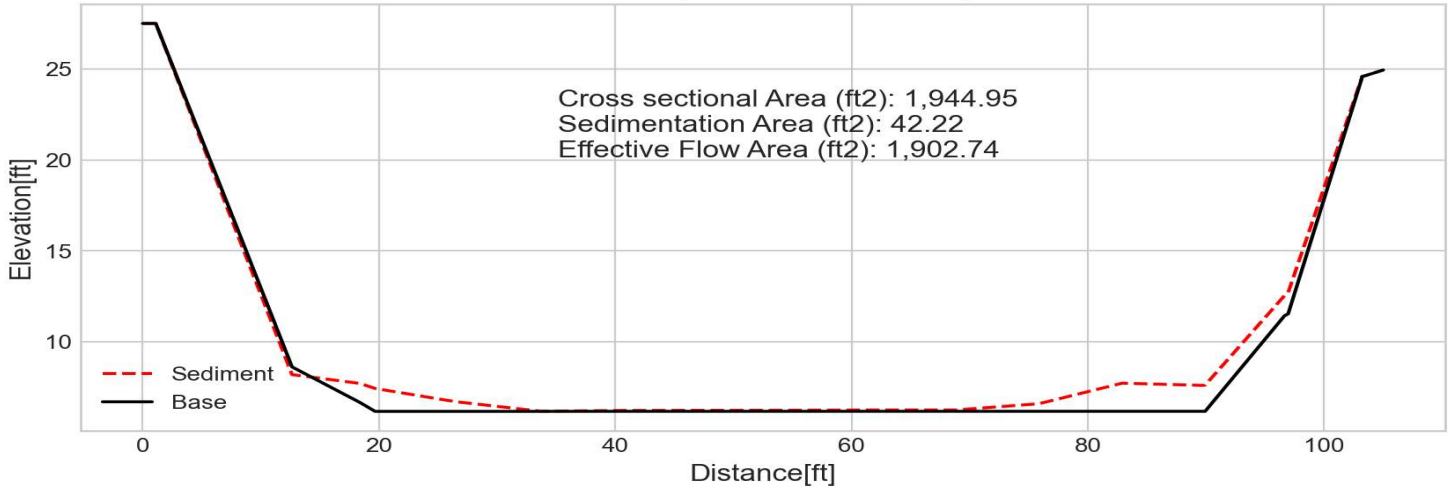
Year 5 (Station: 205+00)



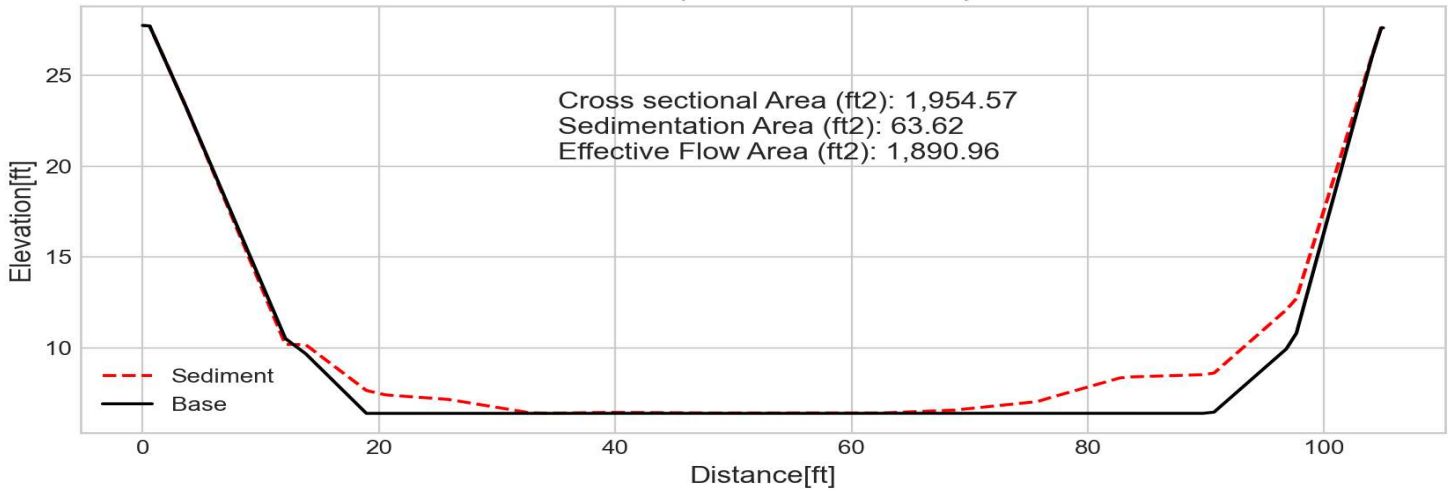
Year 5 (Station: 206+00)



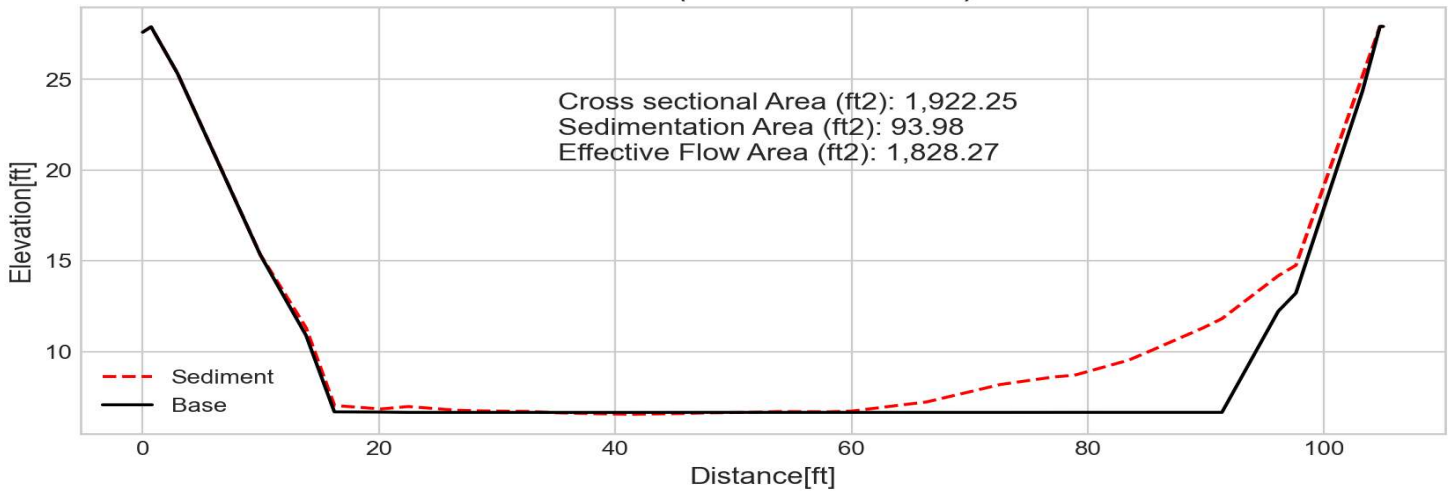
Year 5 (Station: 207+00)



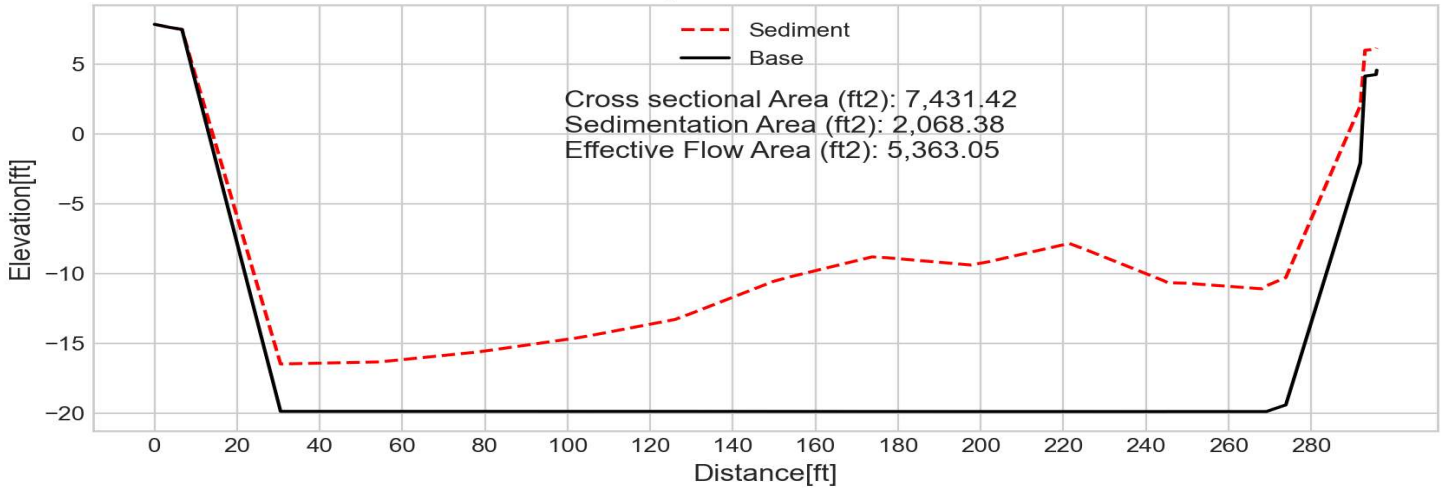
Year 5 (Station: 208+00)



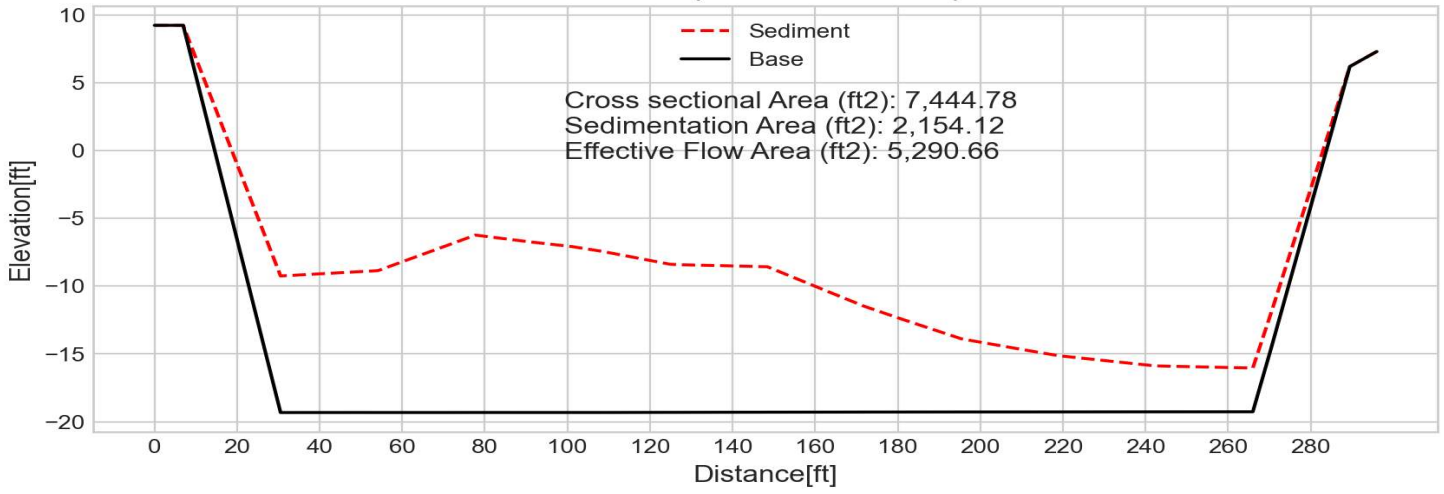
Year 5 (Station: 209+00)



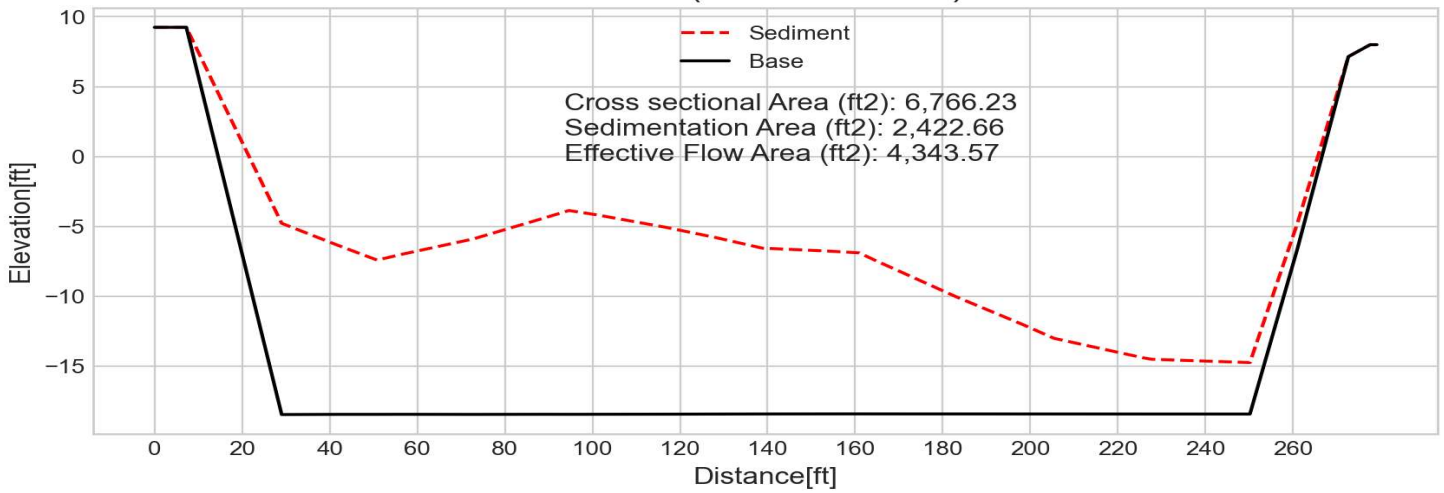
Year 6 (Station: 88+33.21)



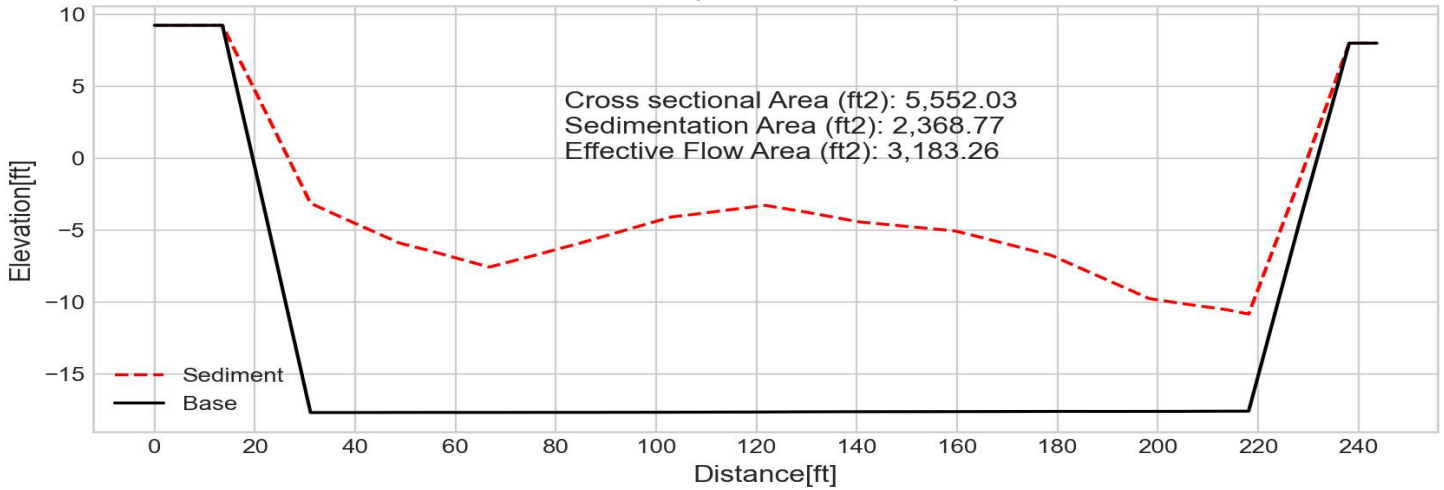
Year 6 (Station: 89+00)



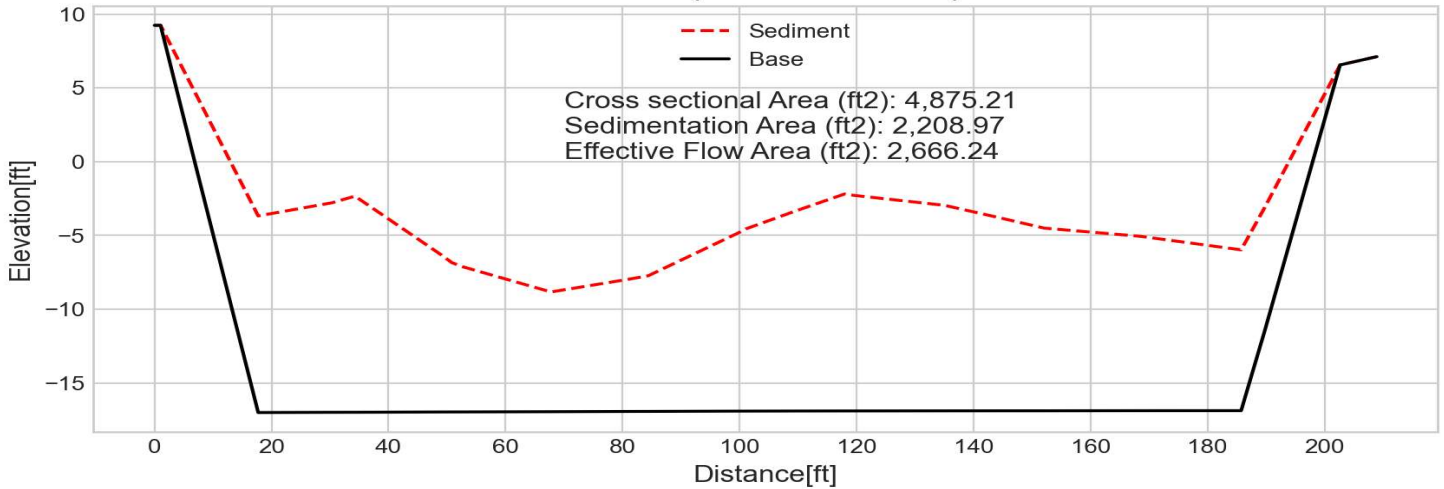
Year 6 (Station: 90+00)



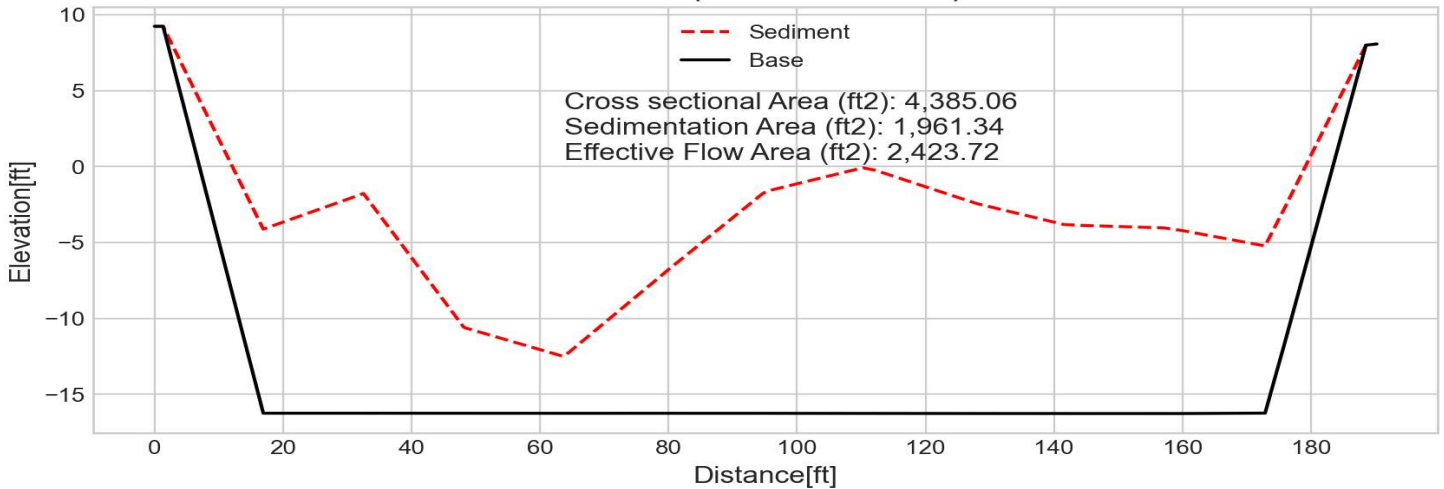
Year 6 (Station: 91+00)



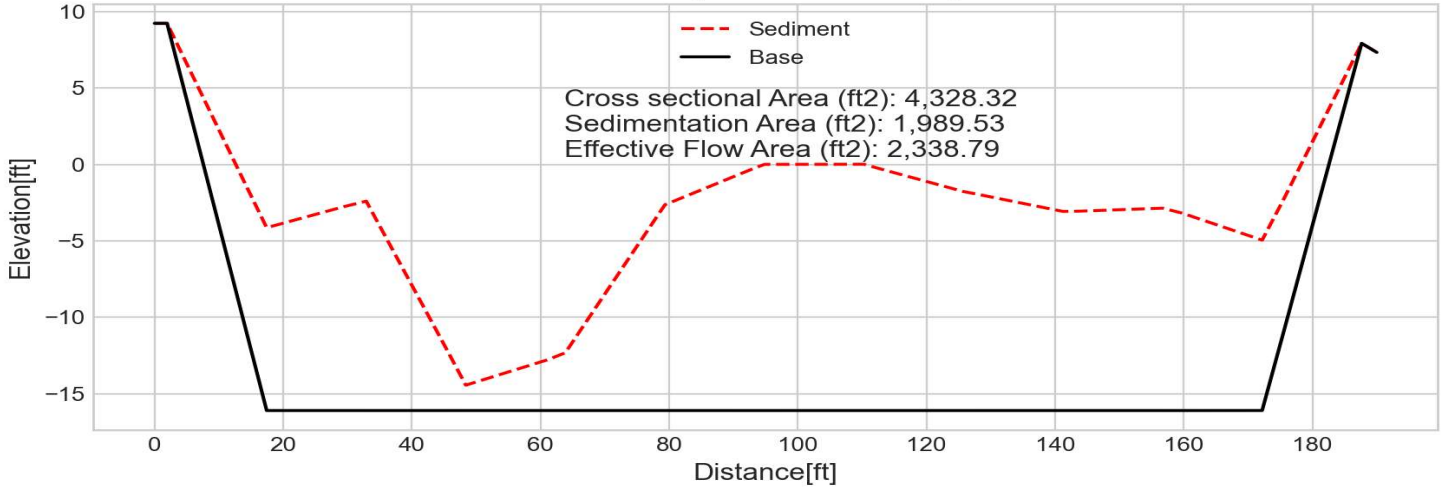
Year 6 (Station: 92+00)



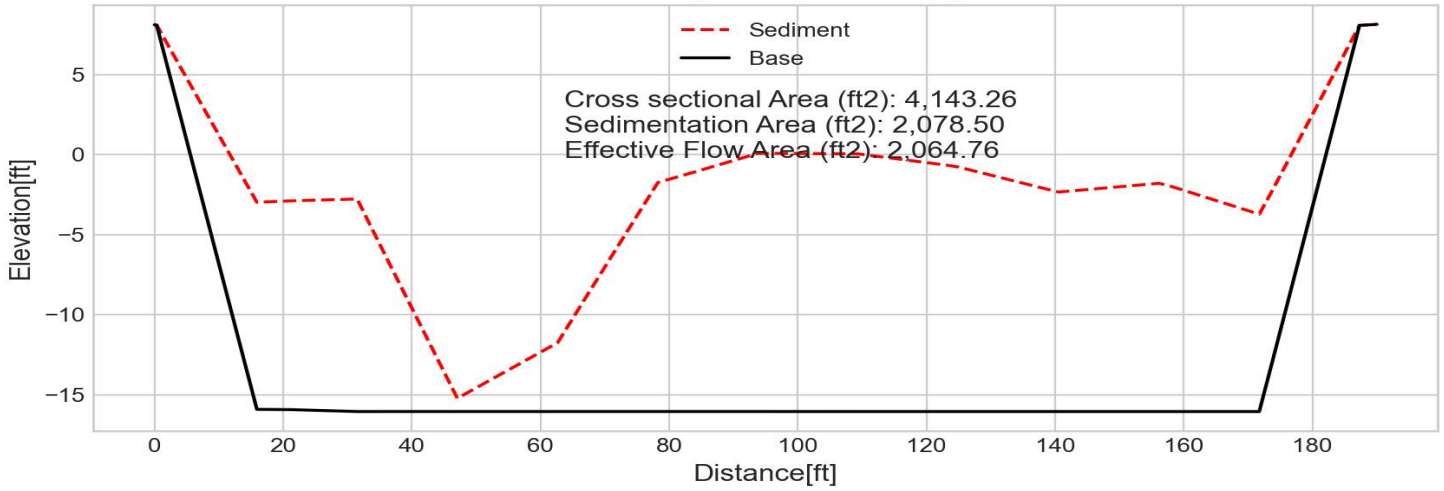
Year 6 (Station: 93+00)



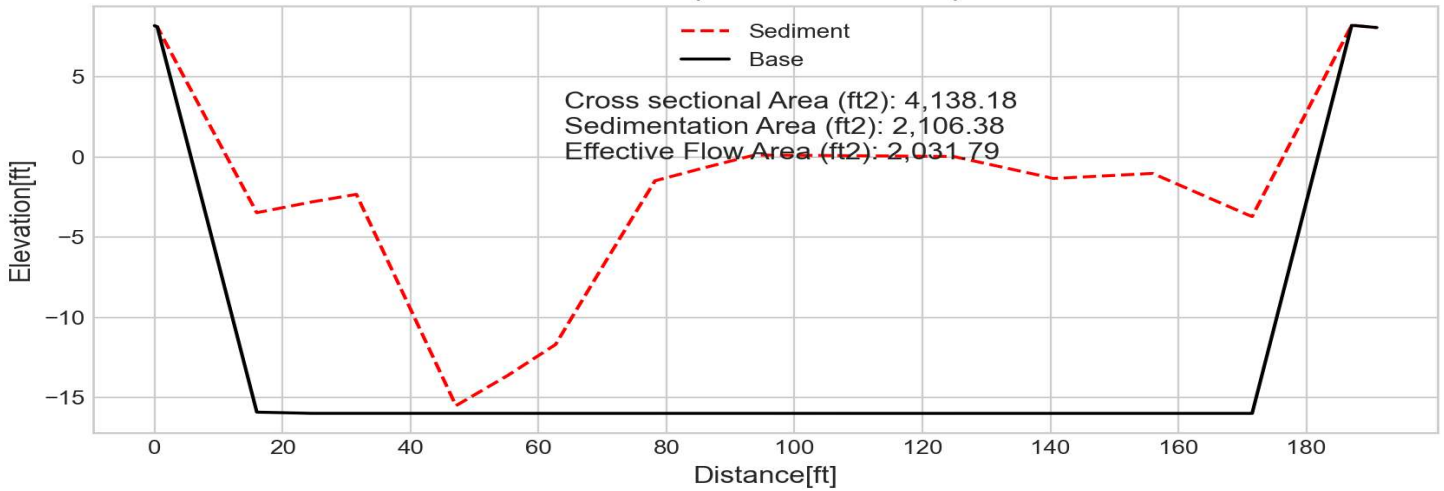
Year 6 (Station: 94+00)



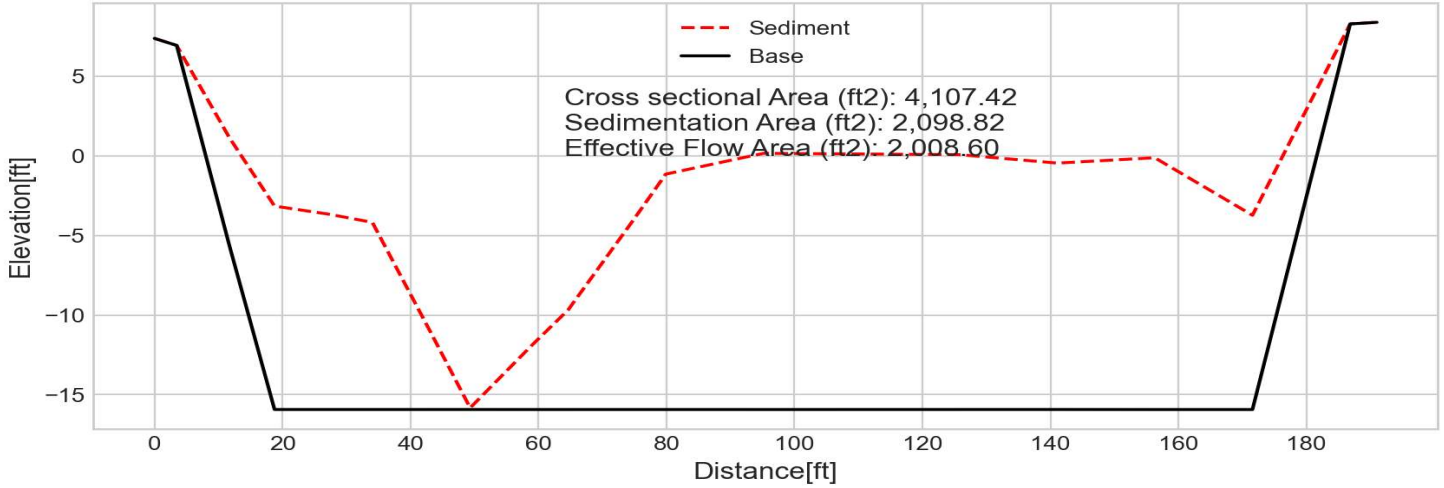
Year 6 (Station: 95+00)



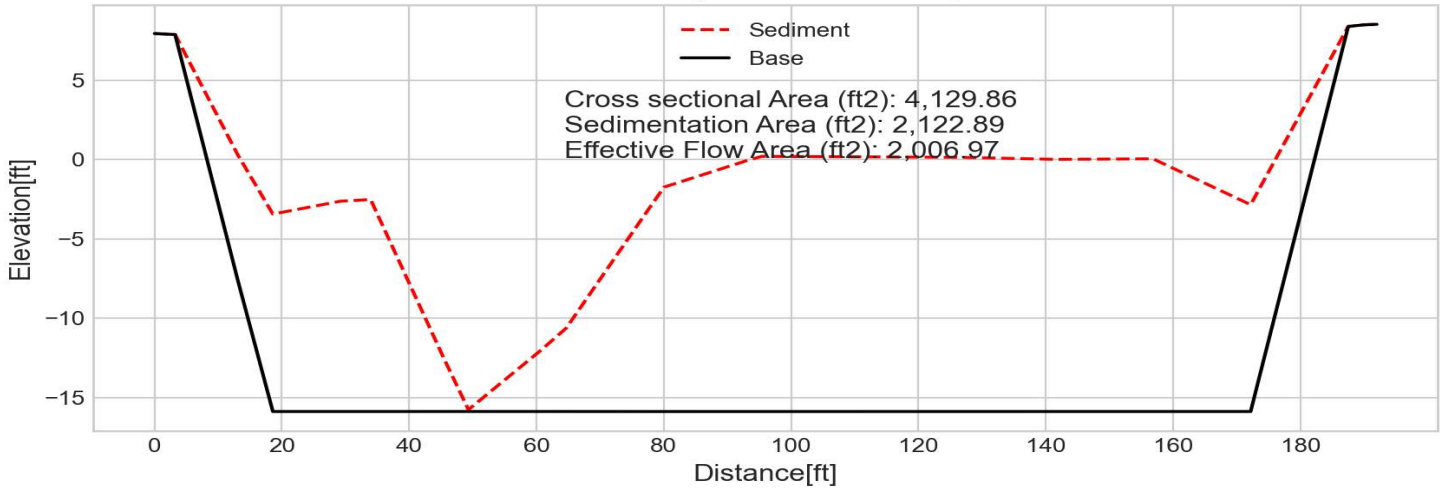
Year 6 (Station: 96+00)



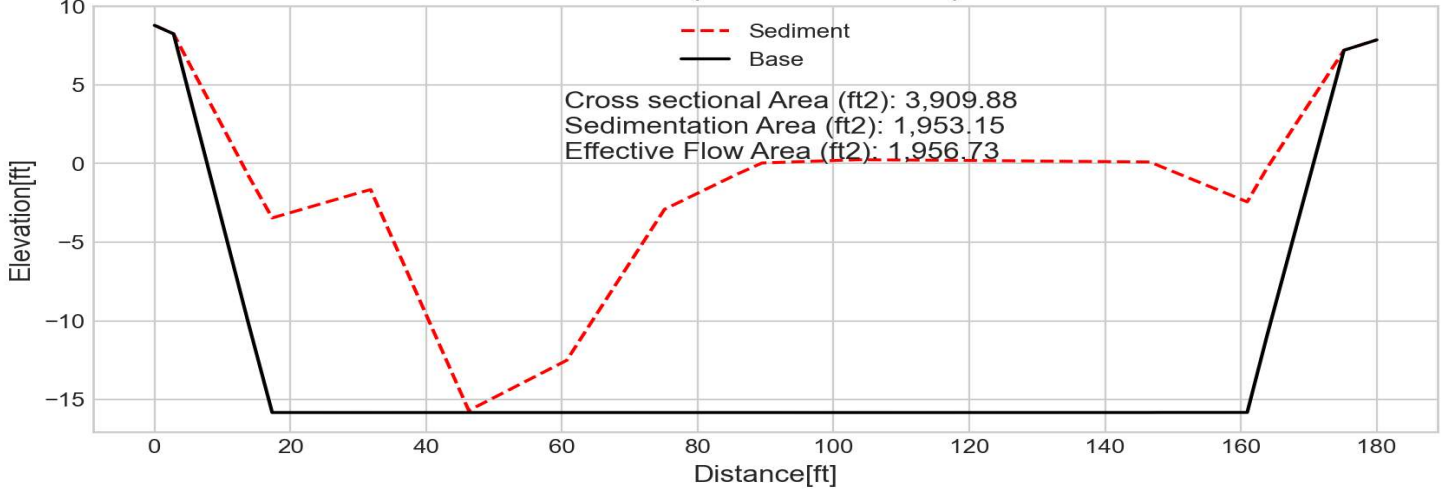
Year 6 (Station: 97+00)



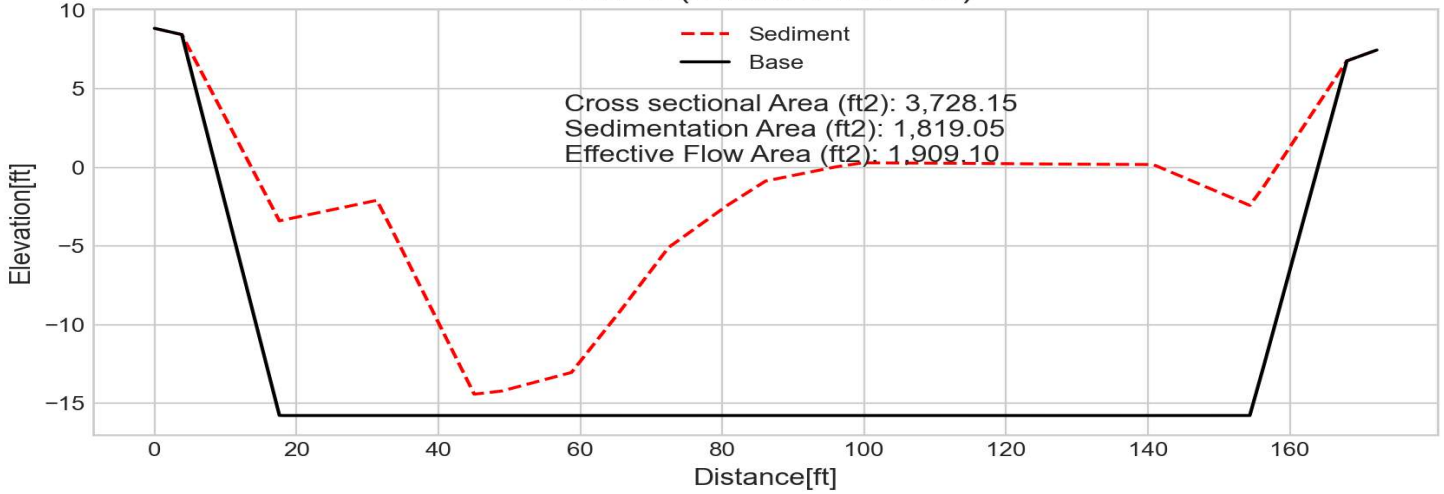
Year 6 (Station: 98+00)



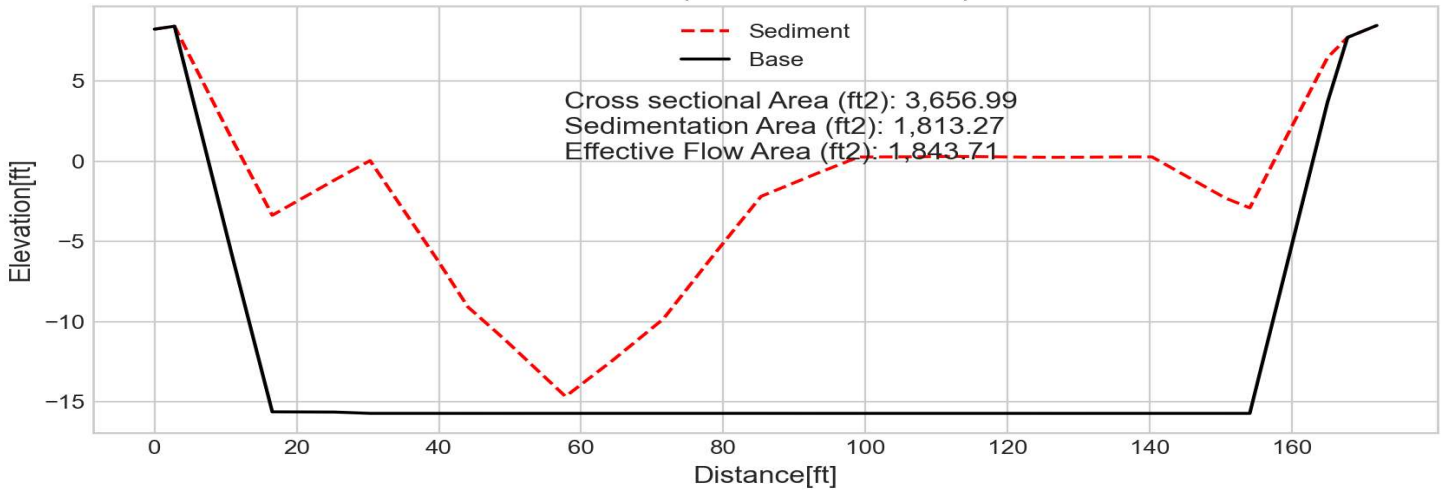
Year 6 (Station: 99+00)



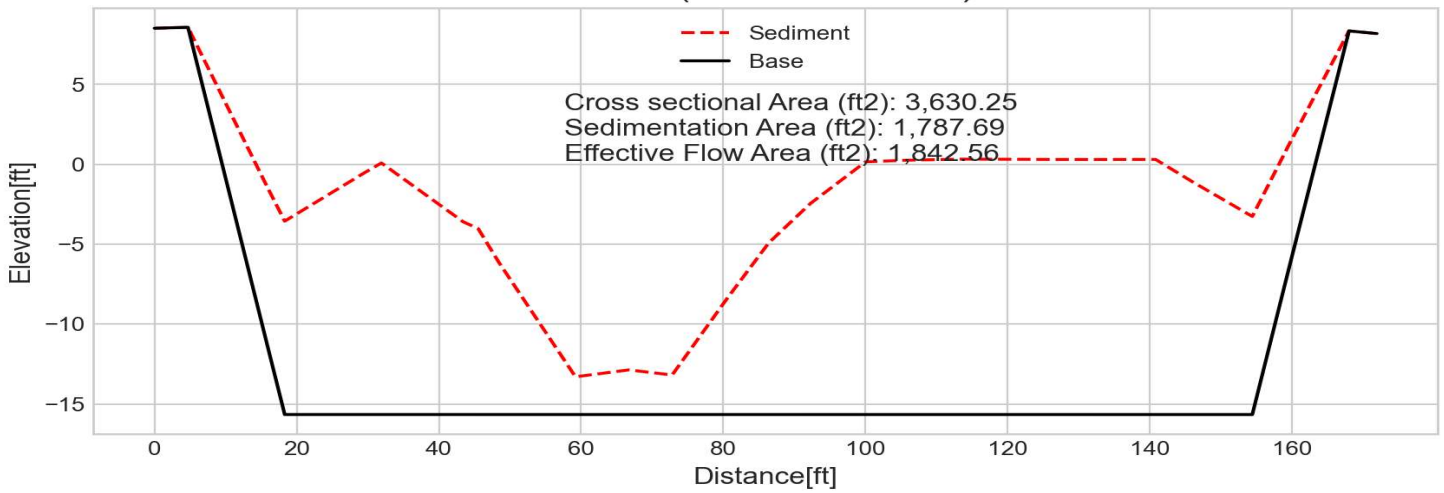
Year 6 (Station: 100+00)



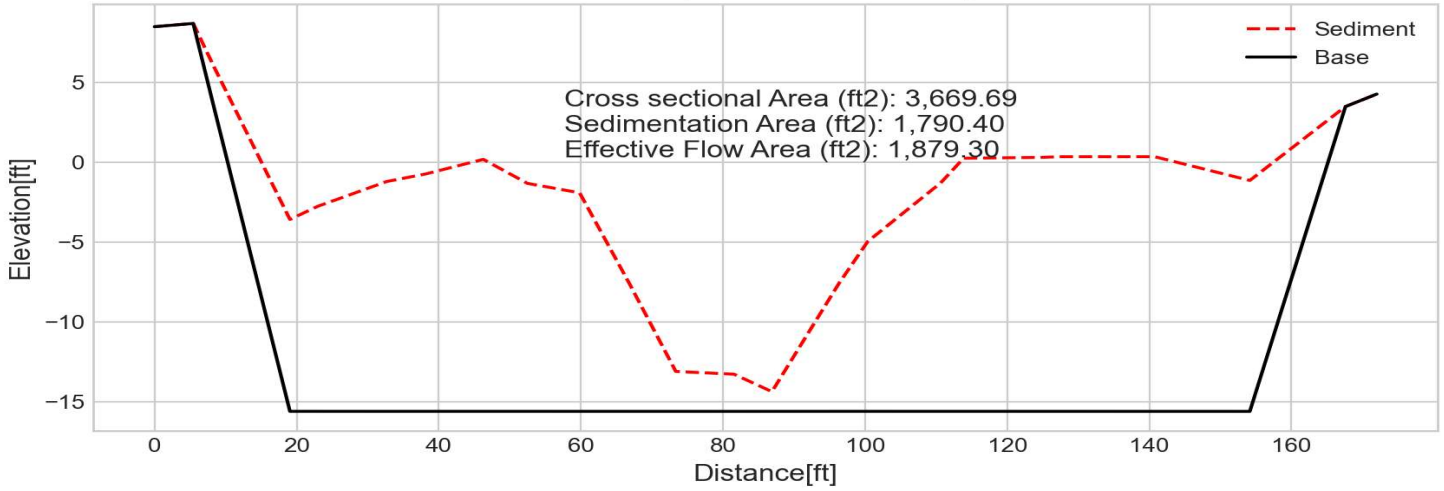
Year 6 (Station: 101+00)



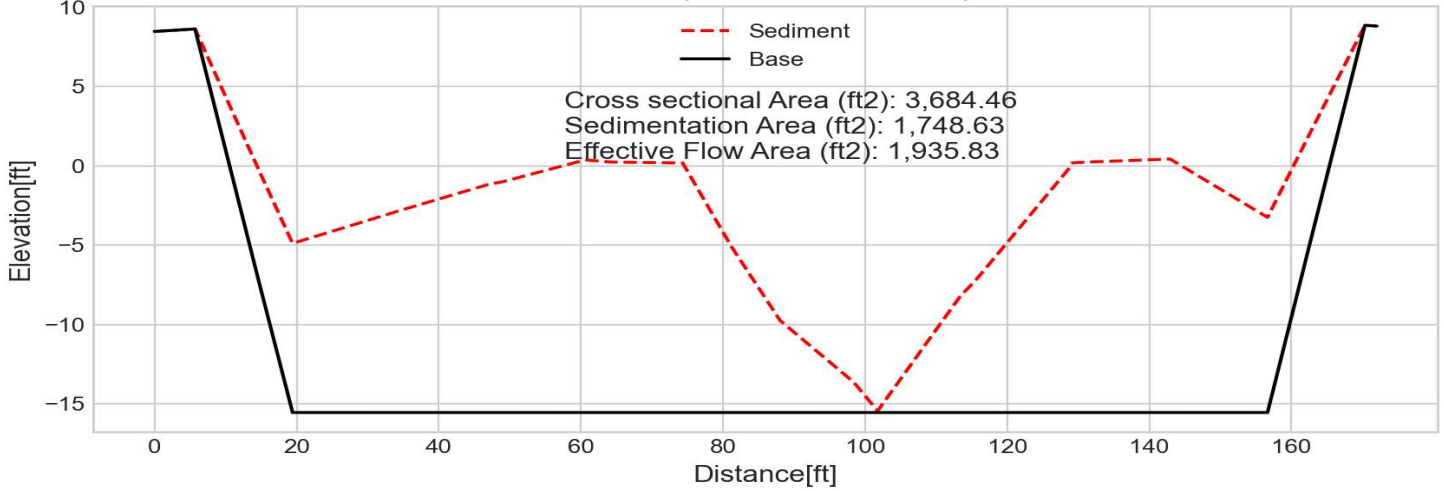
Year 6 (Station: 102+00)



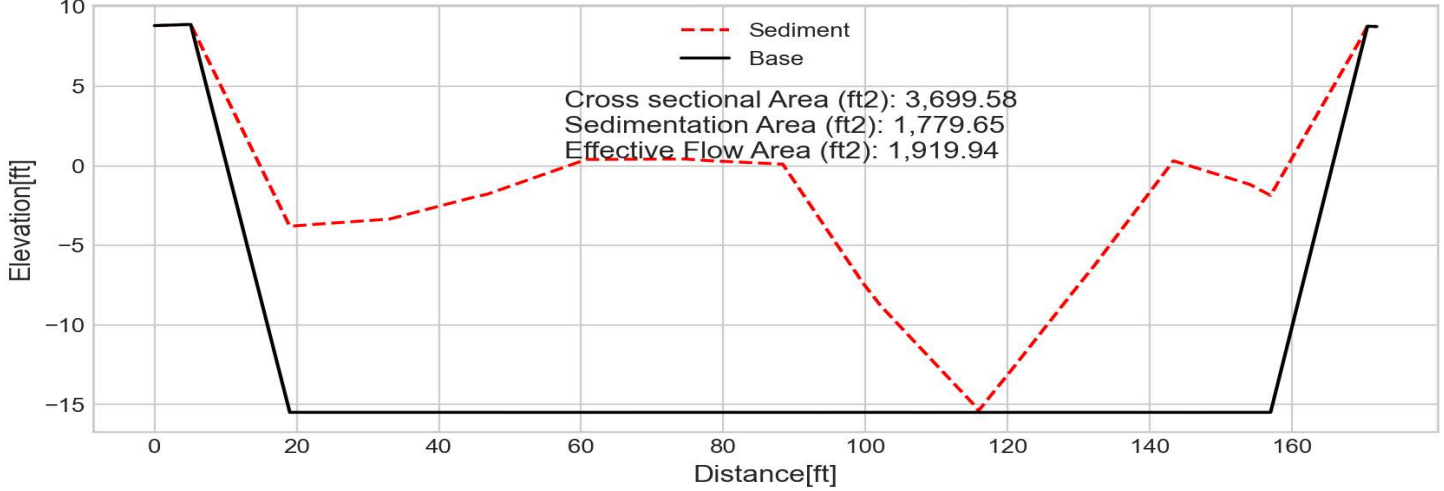
Year 6 (Station: 103+00)



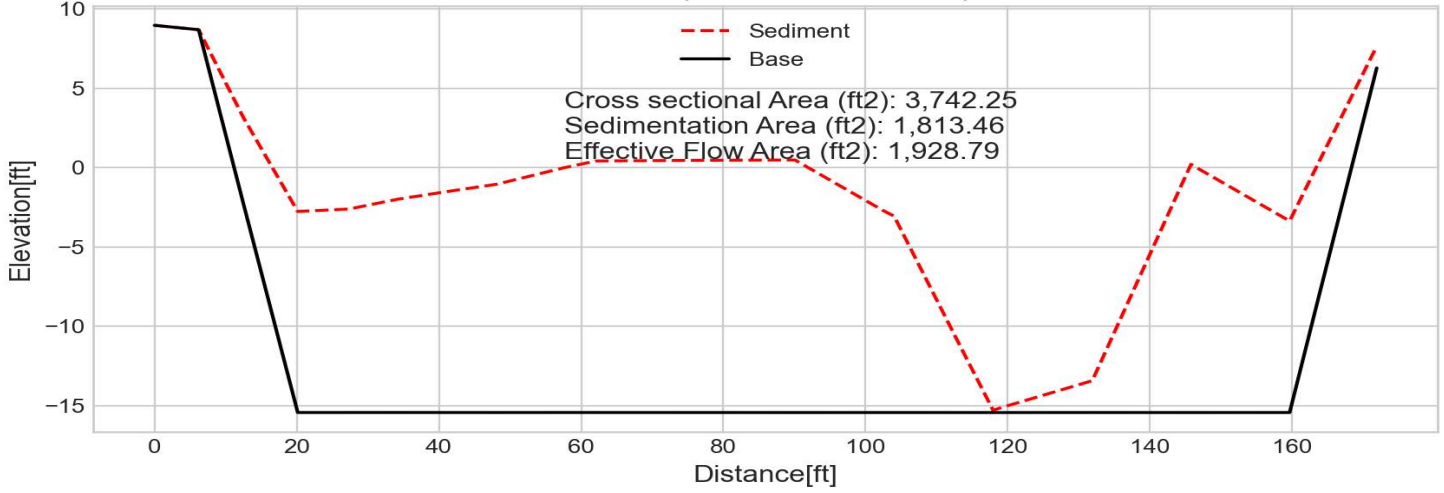
Year 6 (Station: 104+00)



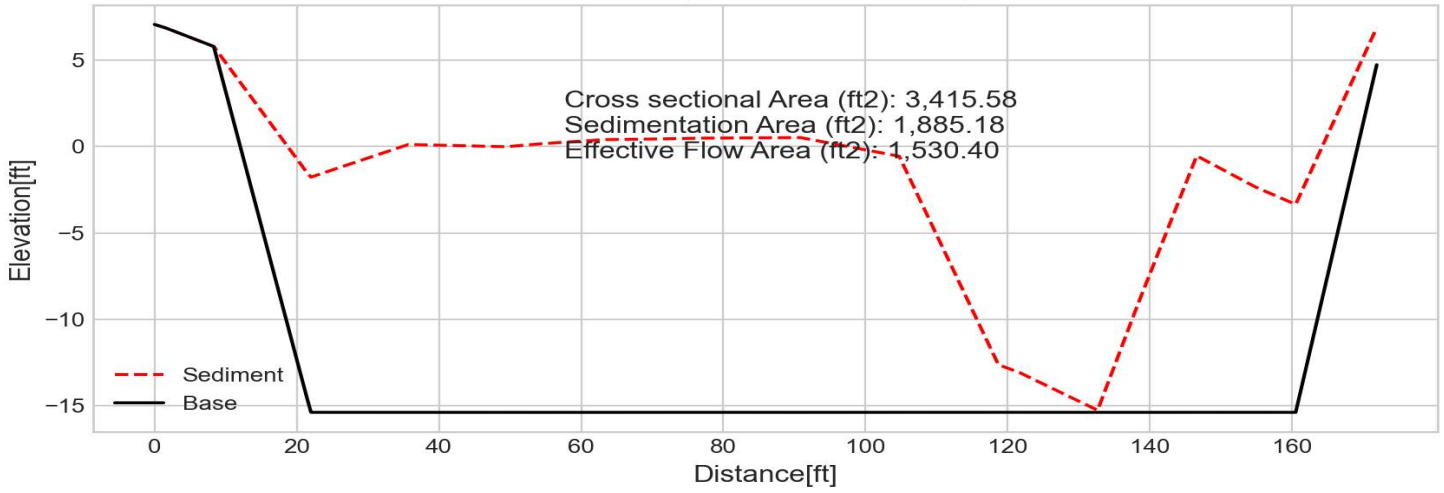
Year 6 (Station: 105+00)



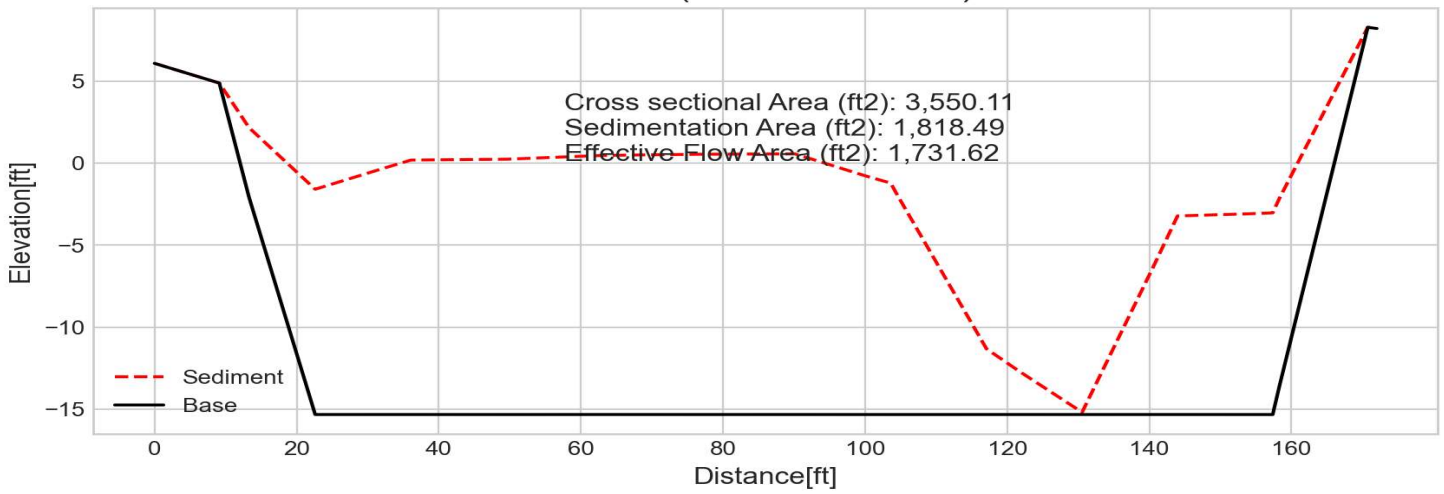
Year 6 (Station: 106+00)



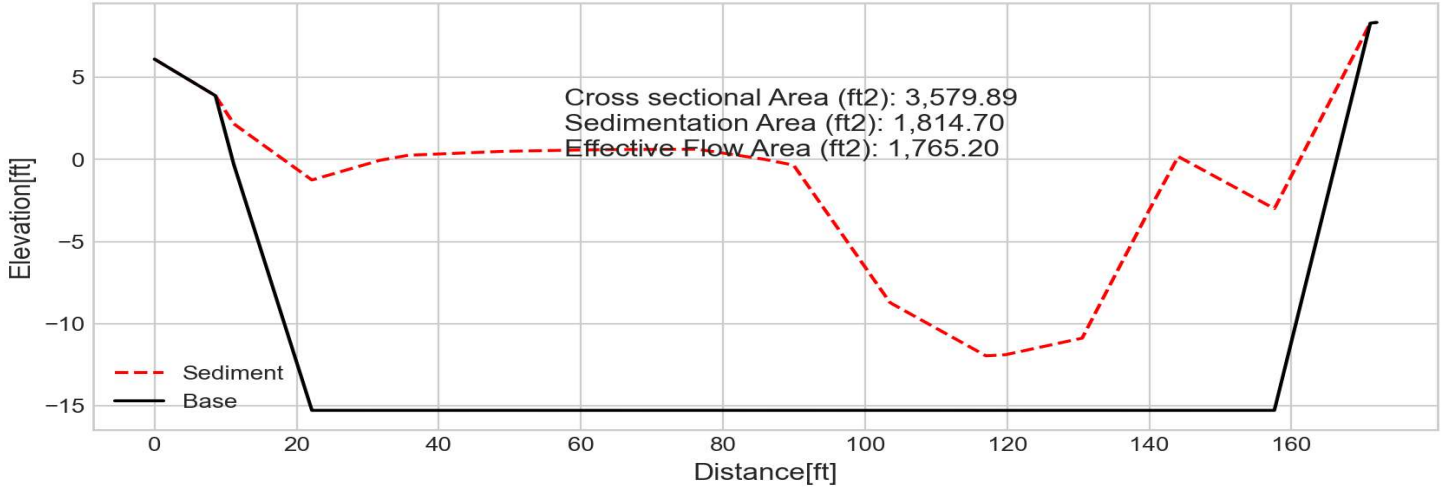
Year 6 (Station: 107+00)



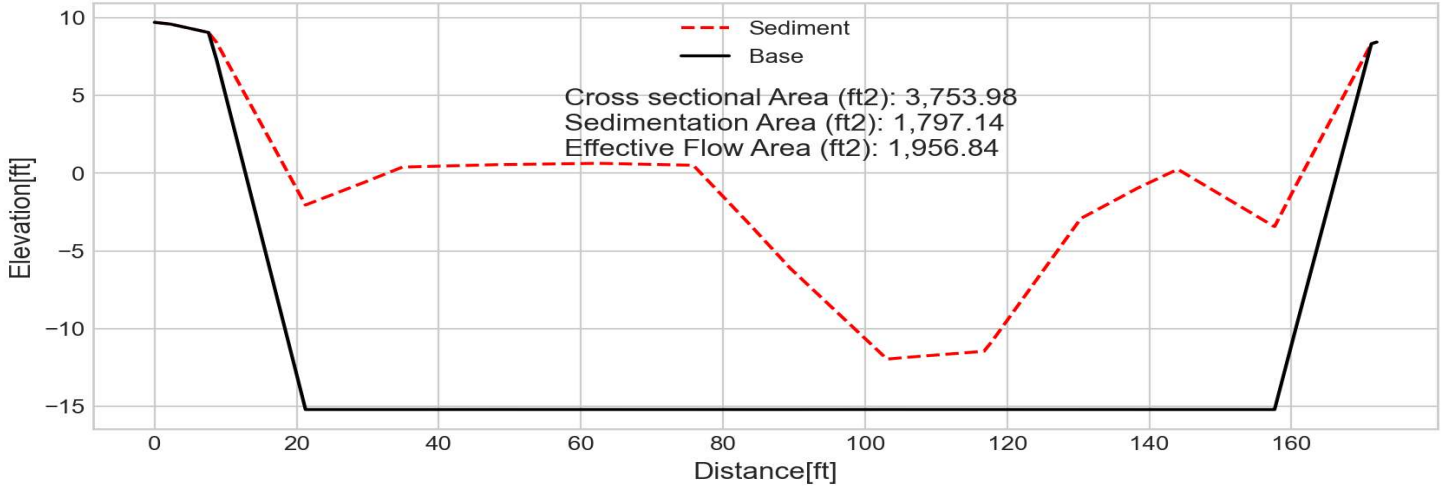
Year 6 (Station: 108+00)



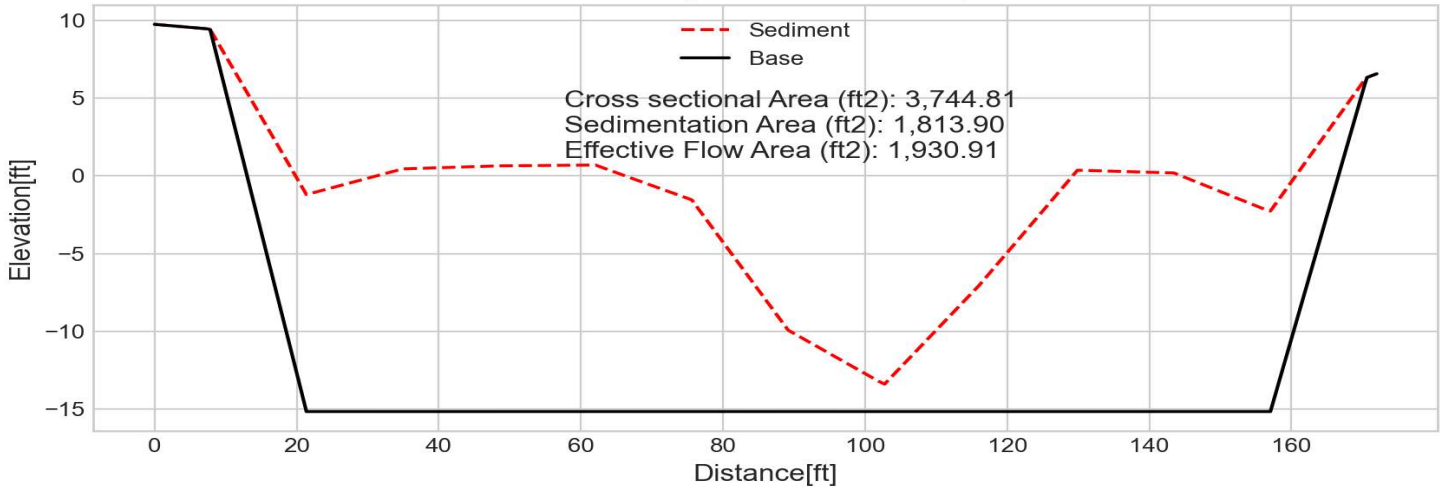
Year 6 (Station: 109+00)



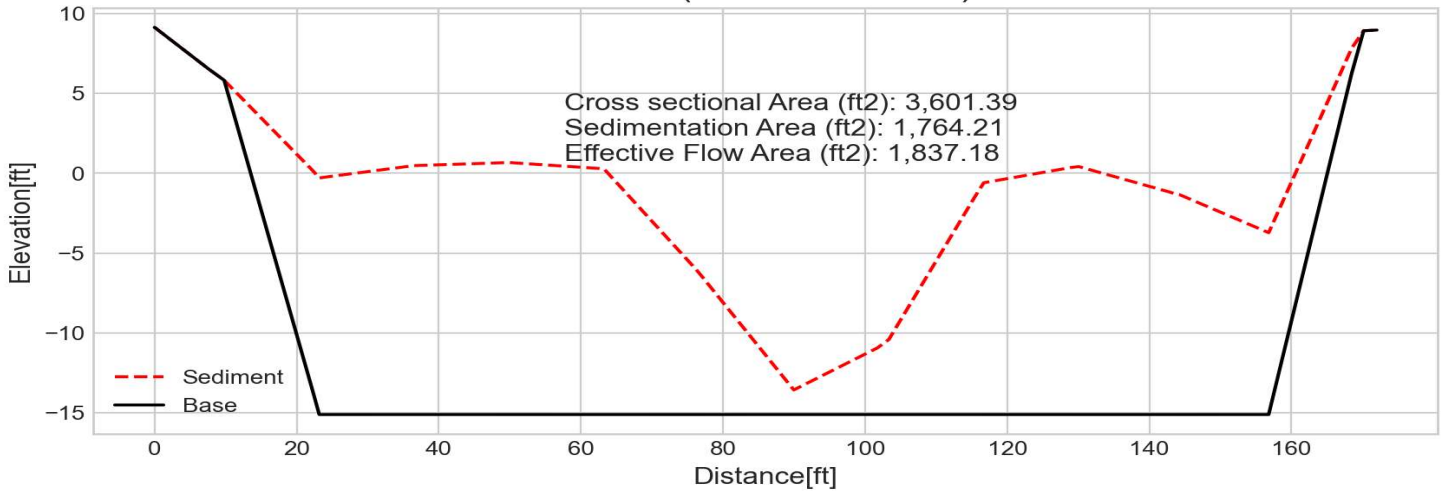
Year 6 (Station: 110+00)



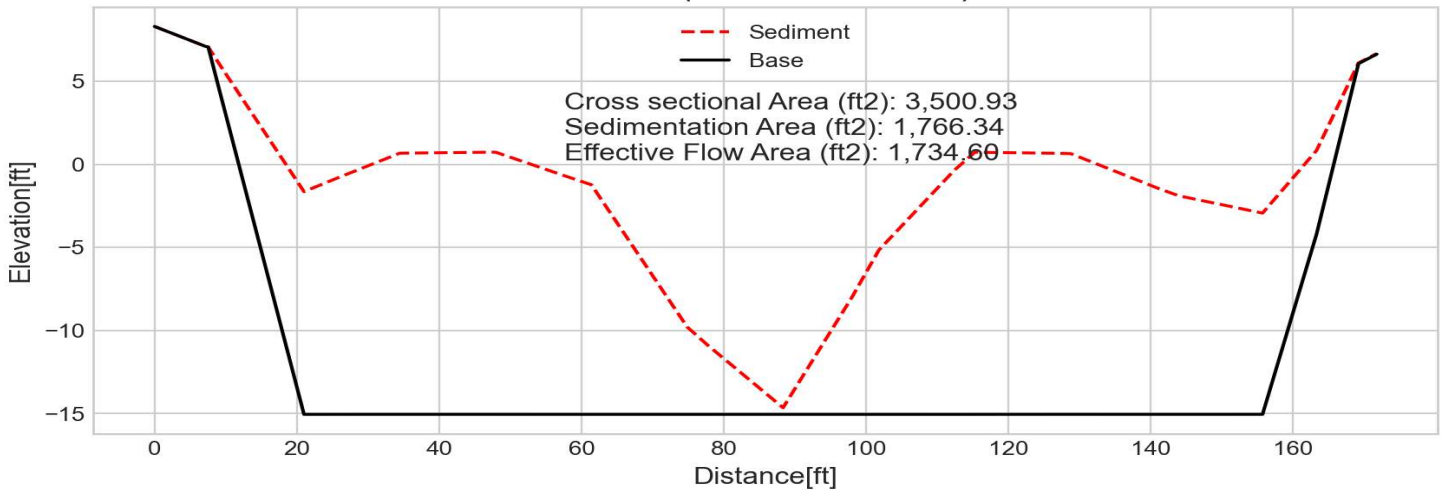
Year 6 (Station: 111+00)



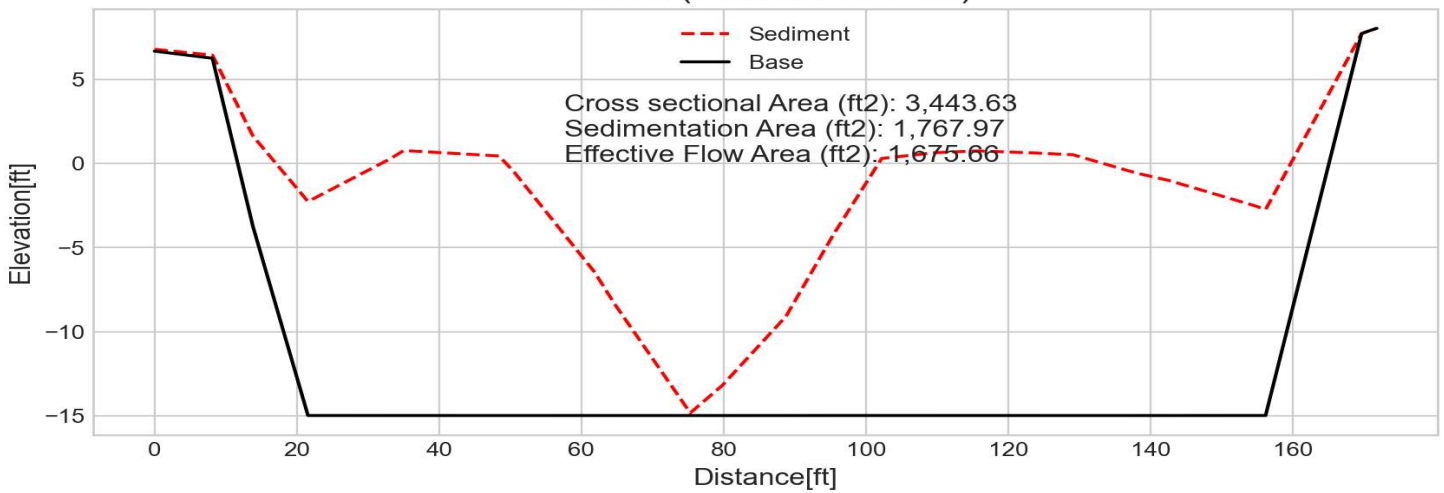
Year 6 (Station: 112+00)



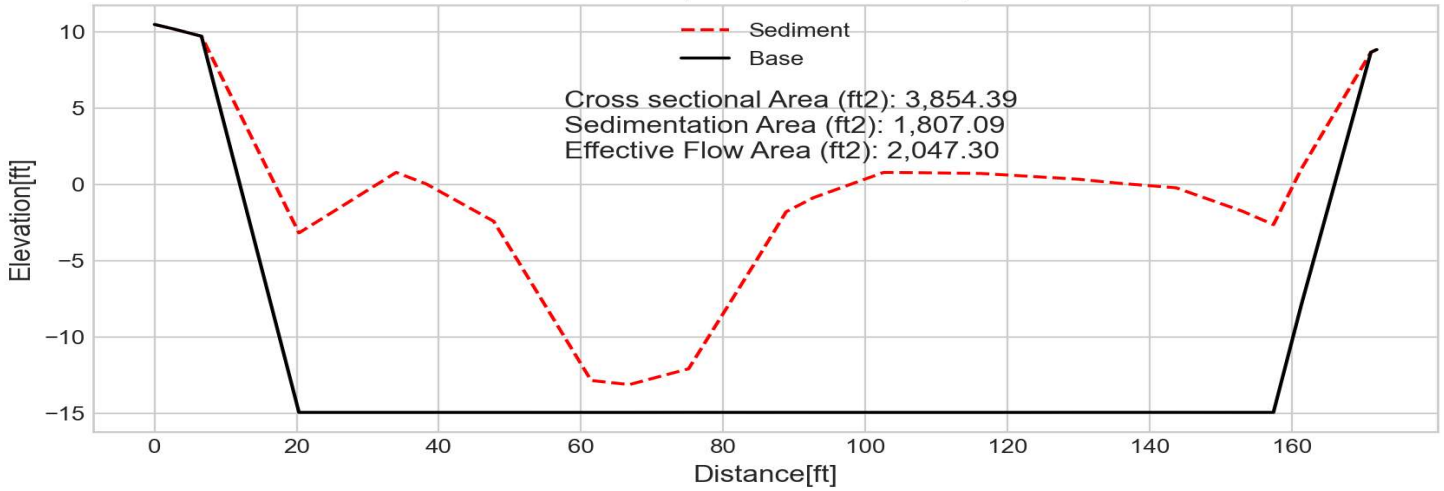
Year 6 (Station: 113+00)



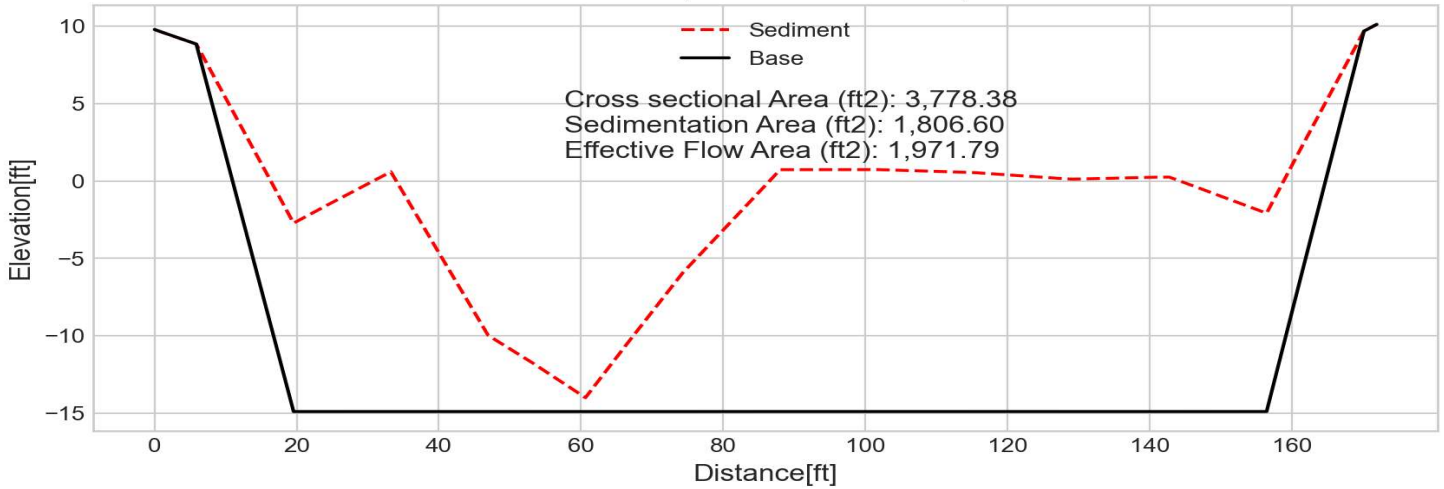
Year 6 (Station: 114+00)



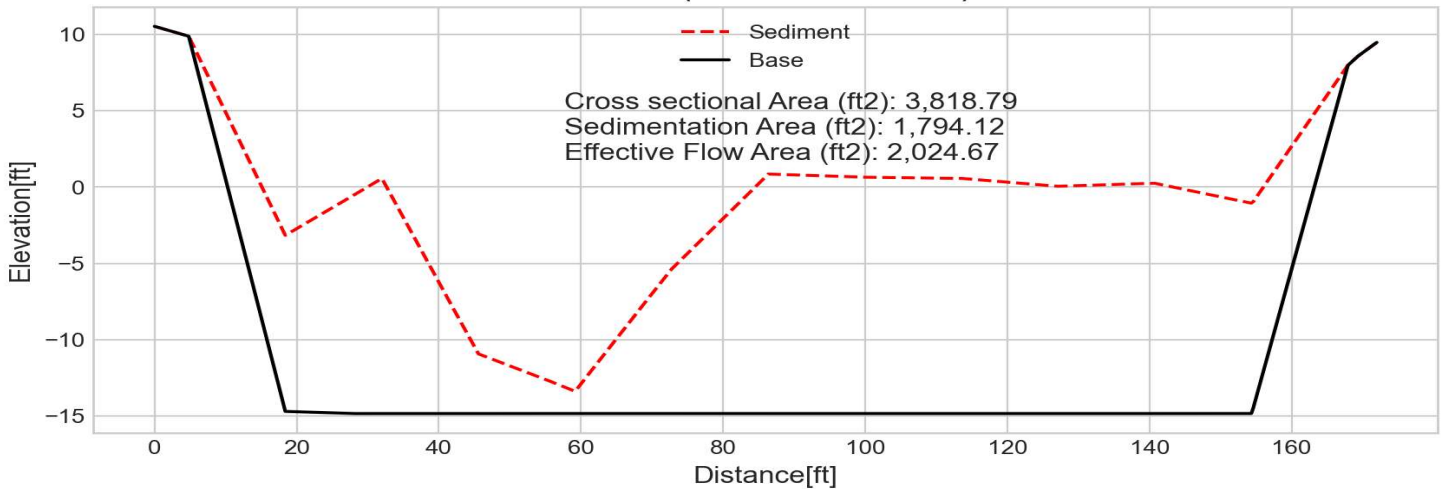
Year 6 (Station: 115+00)



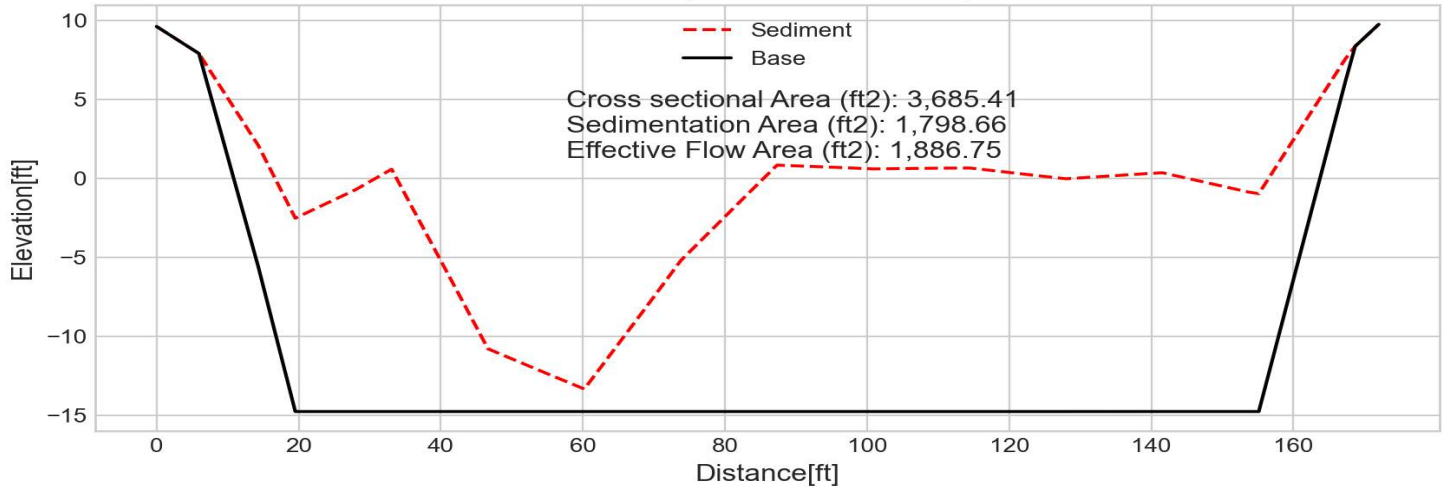
Year 6 (Station: 116+00)



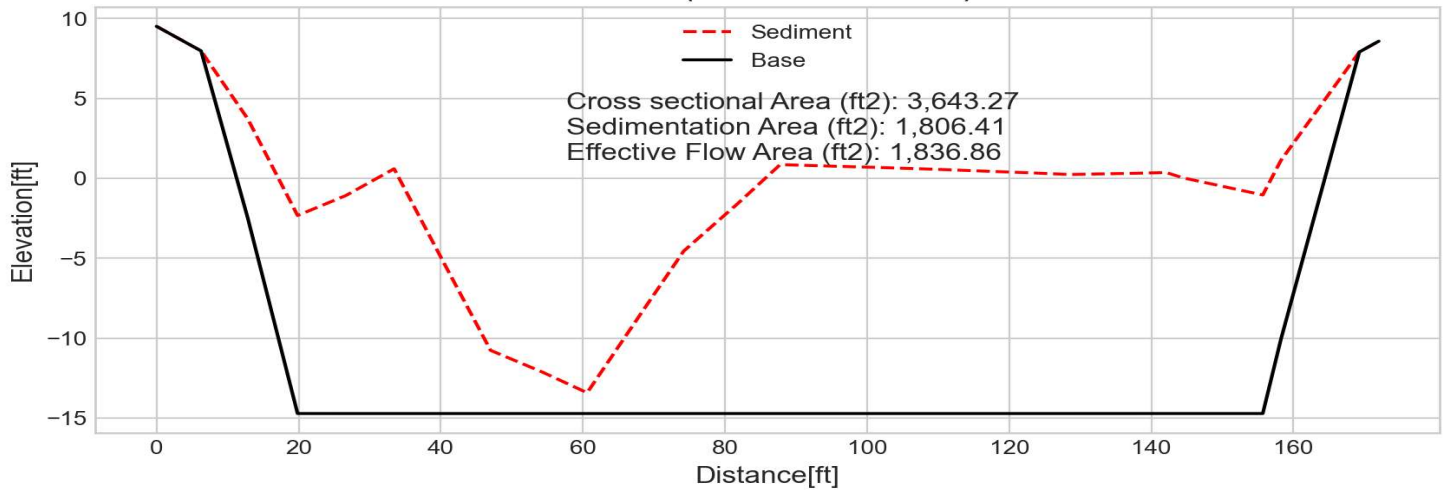
Year 6 (Station: 117+00)



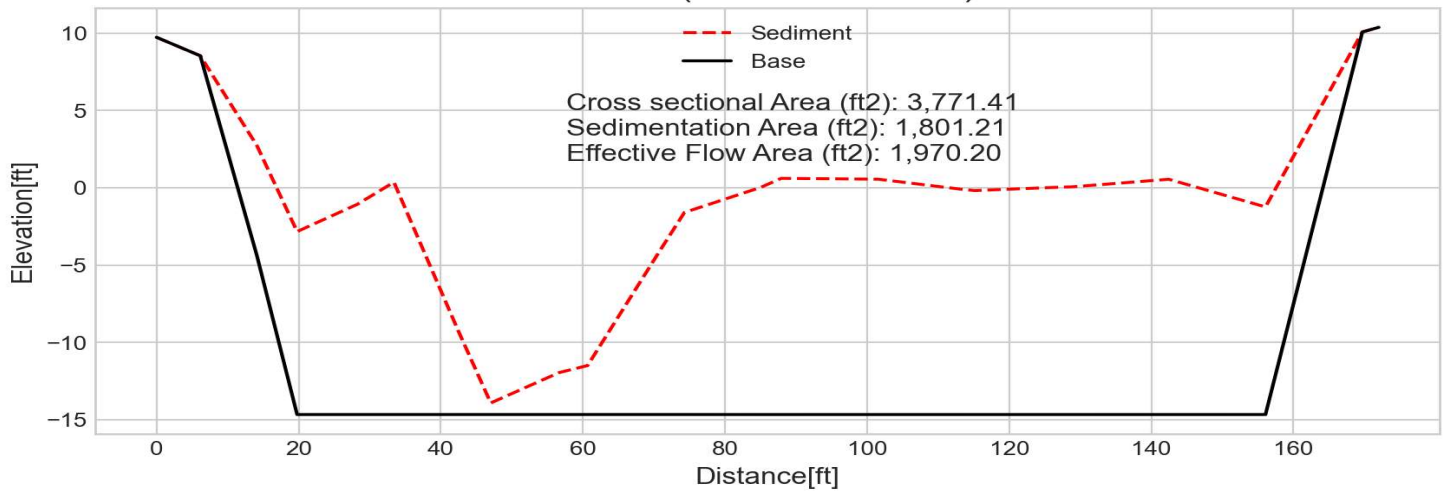
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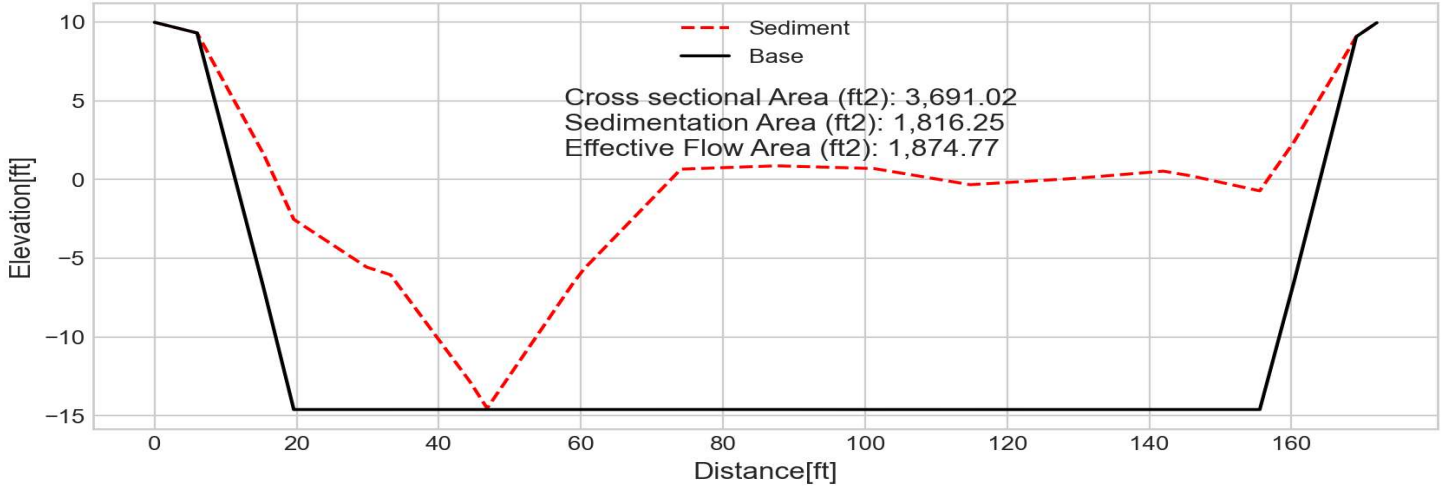
Year 6 (Station: 119+00)



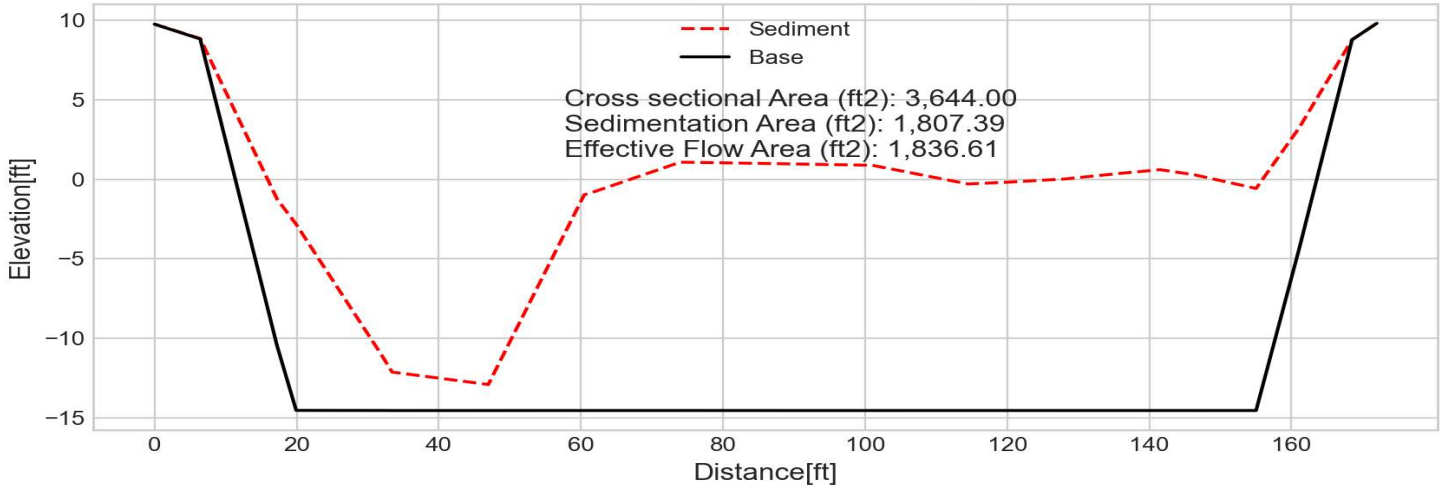
Year 6 (Station: 120+00)



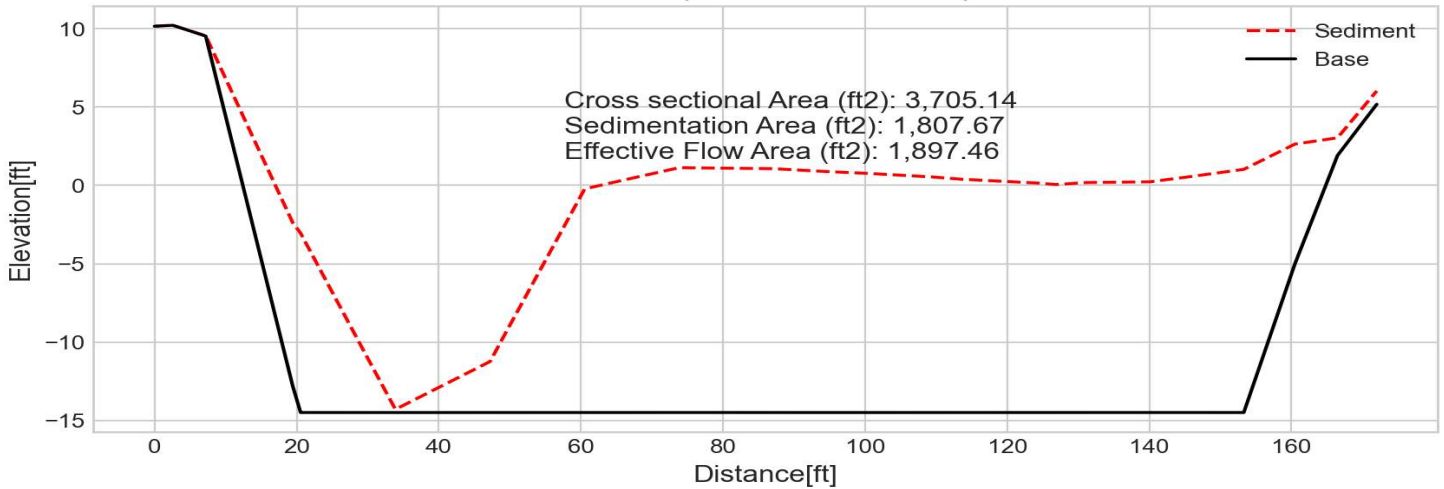
Year 6 (Station: 121+00)



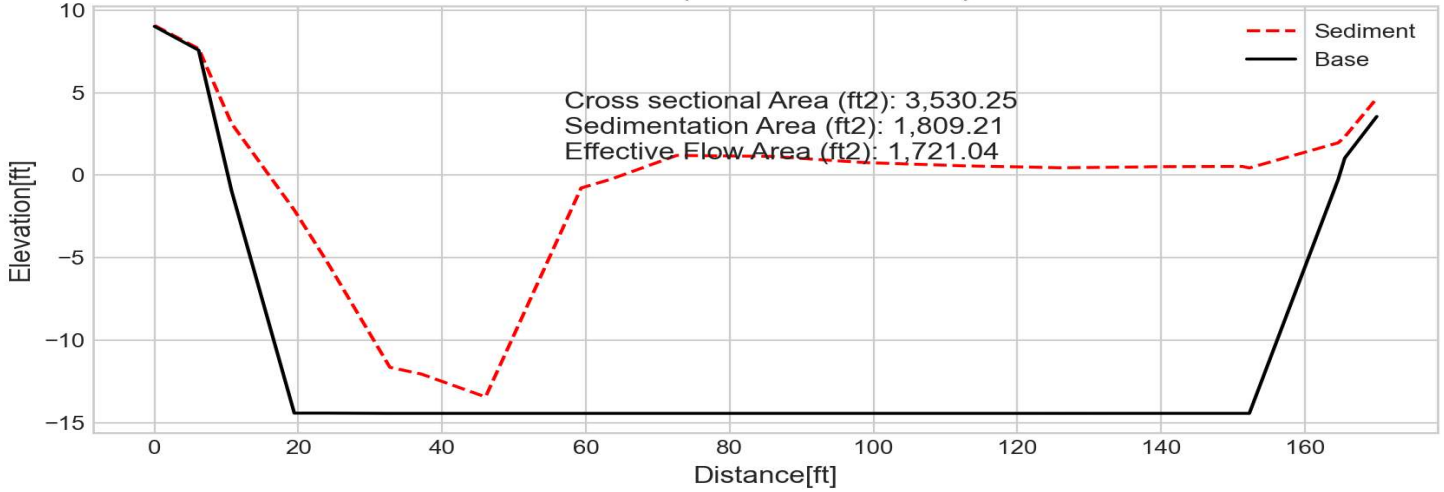
Year 6 (Station: 122+00)



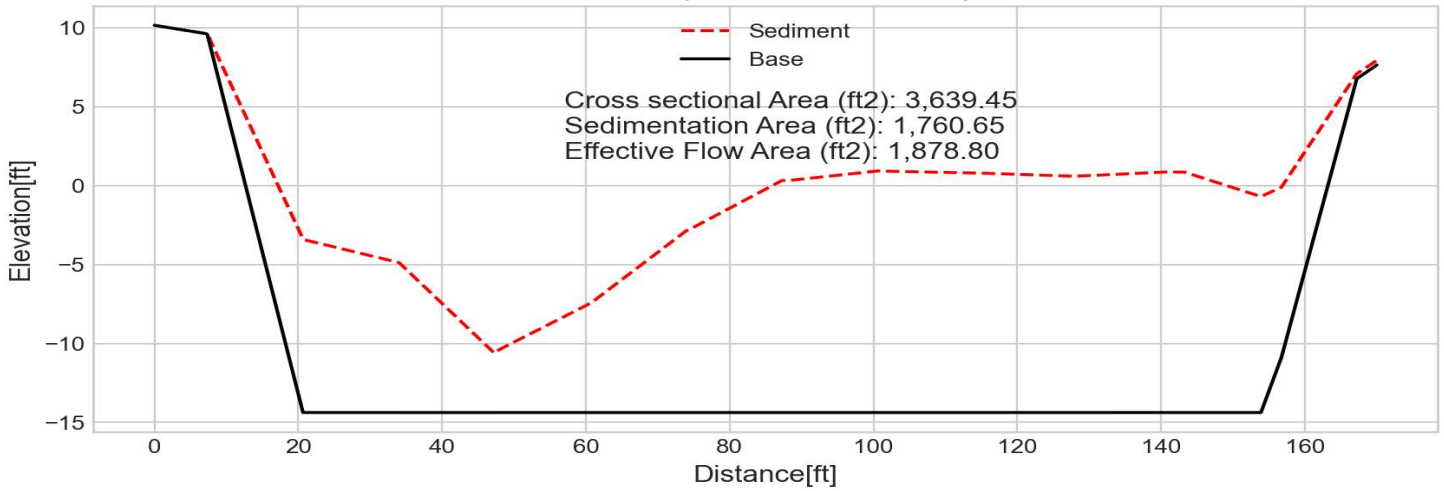
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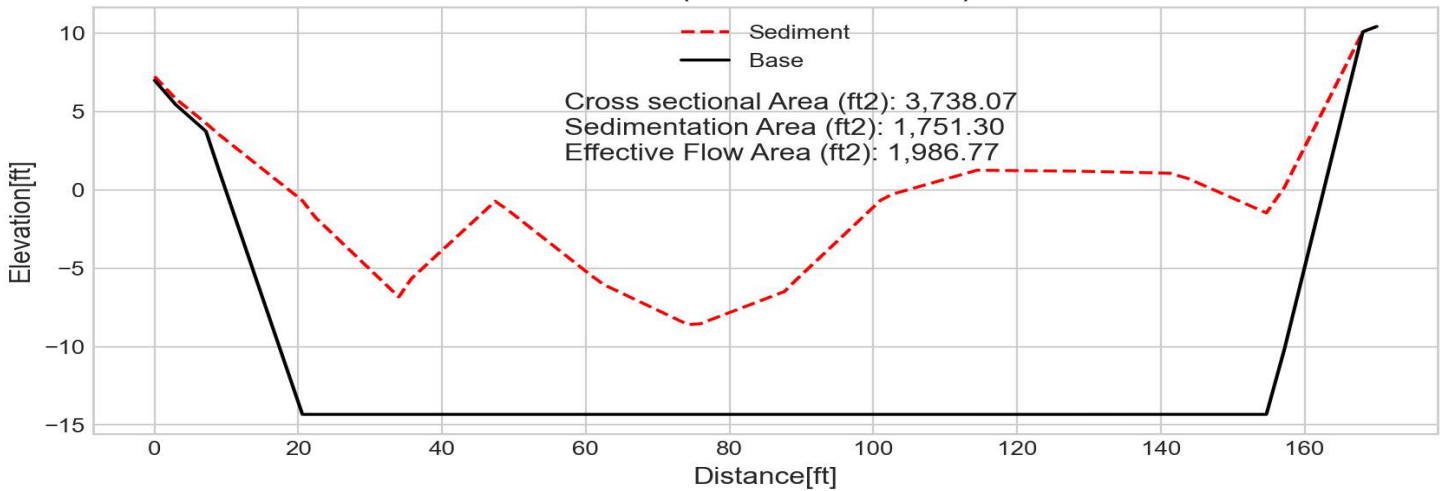
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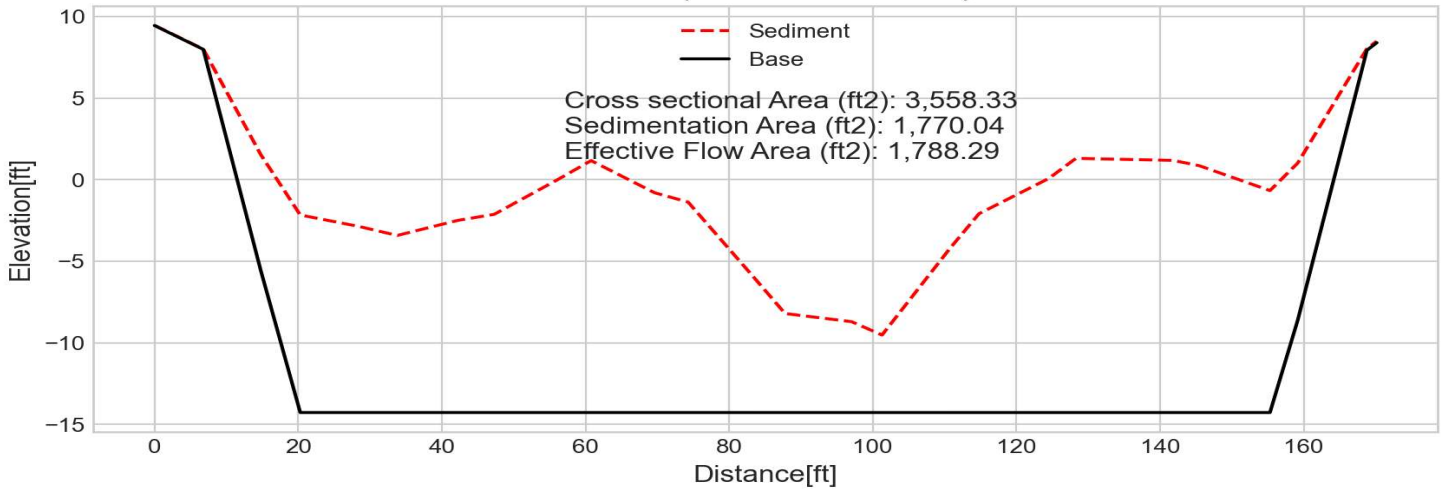
Year 6 (Station: 125+00)



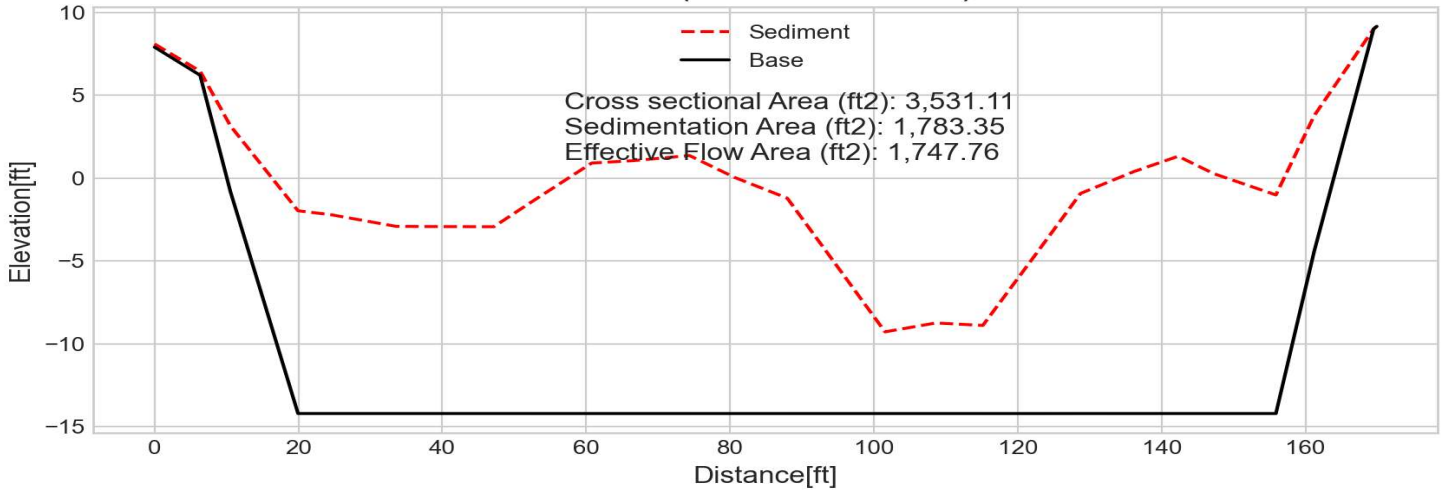
Year 6 (Station: 126+00)



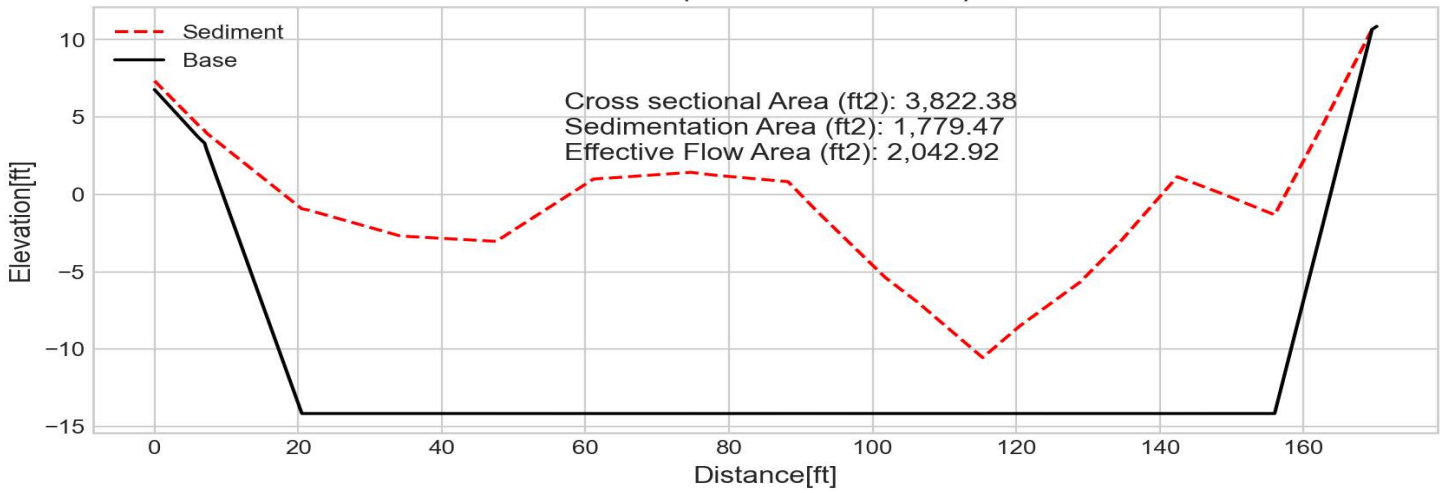
Year 6 (Station: 127+00)



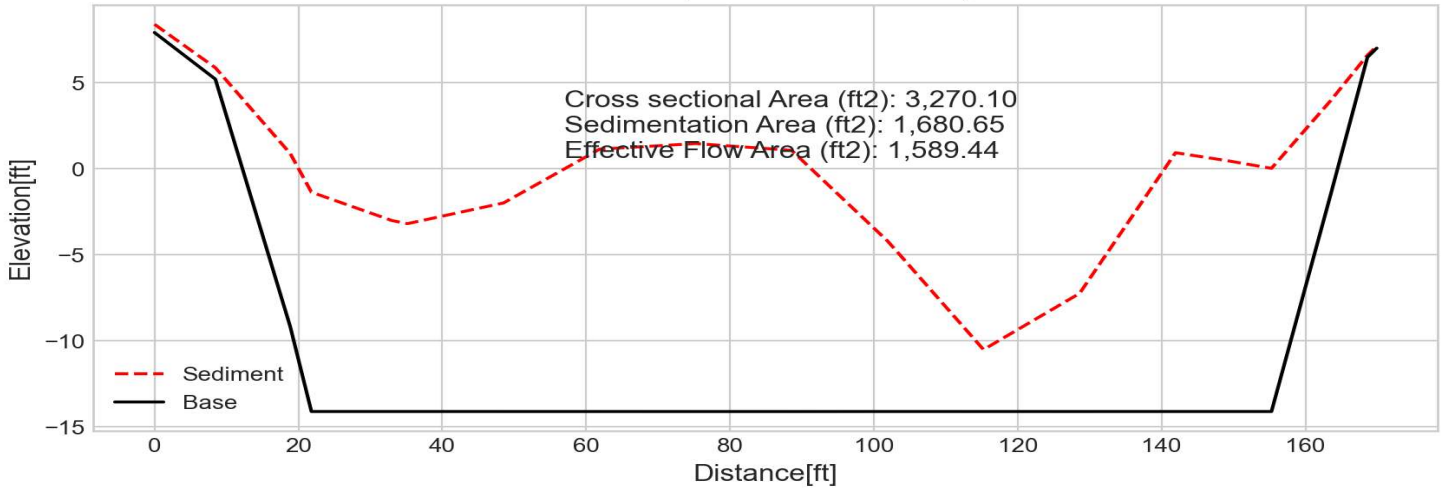
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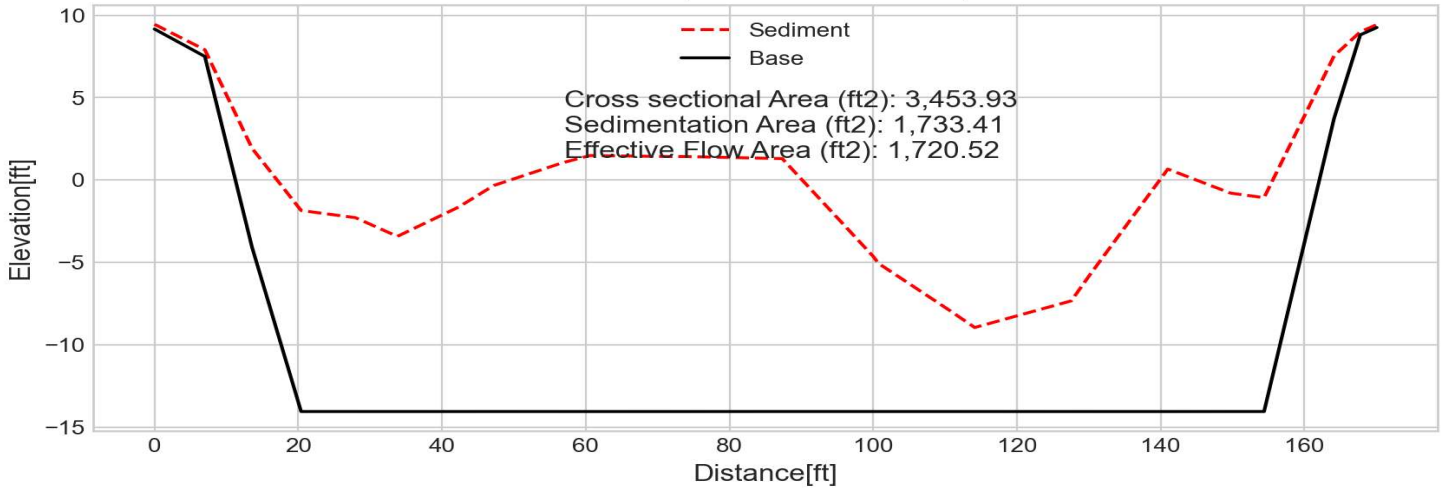
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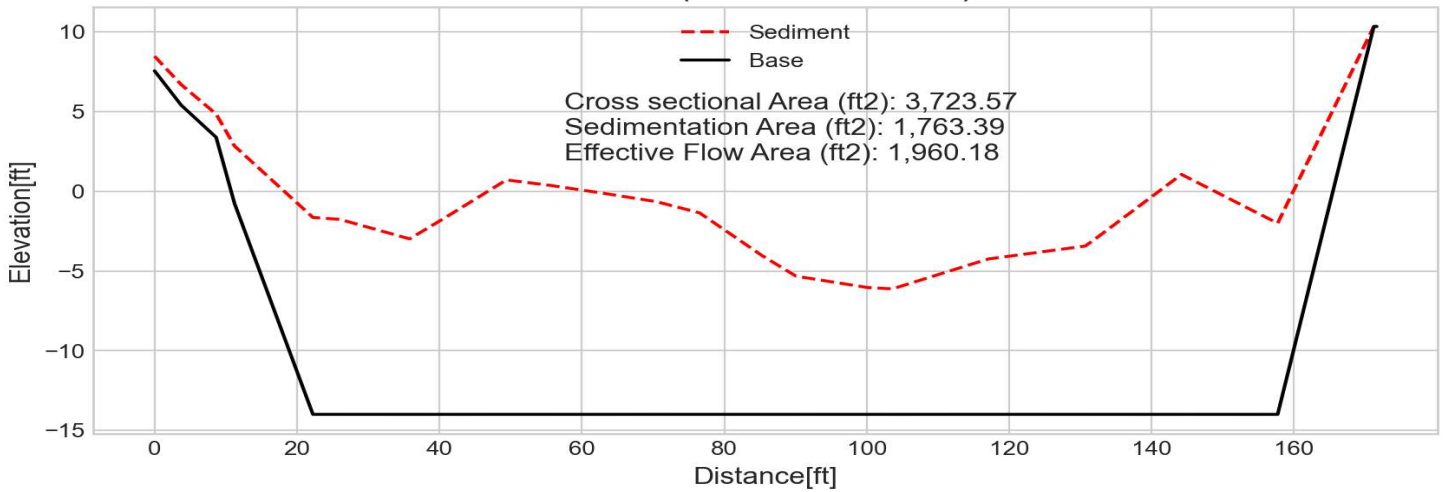
Year 6 (Station: 130+00)



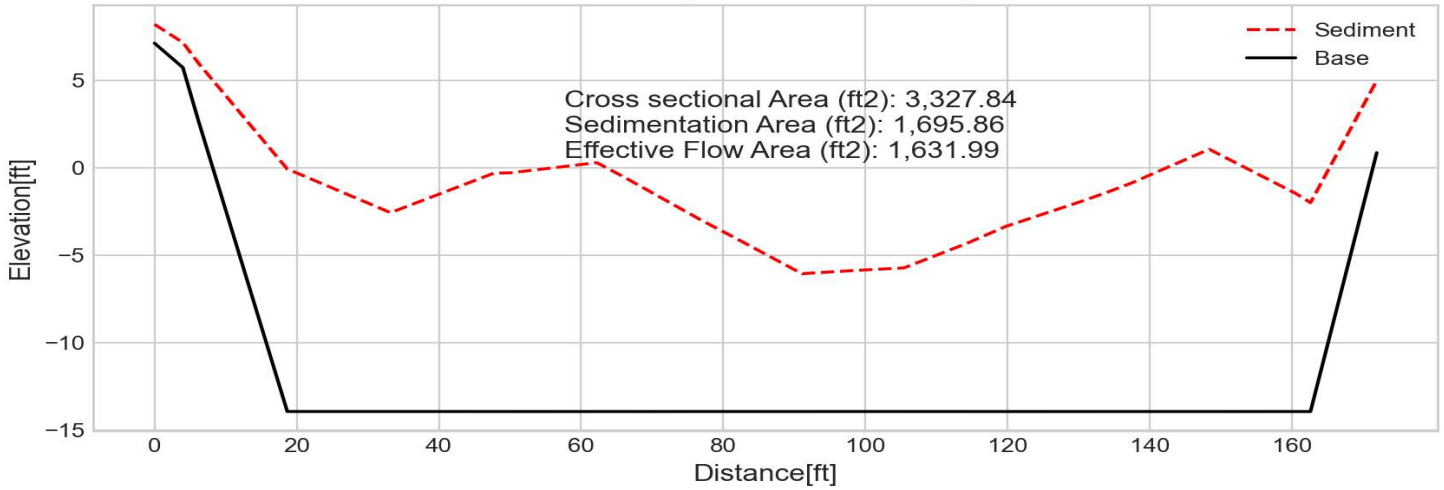
Year 6 (Station: 131+00)



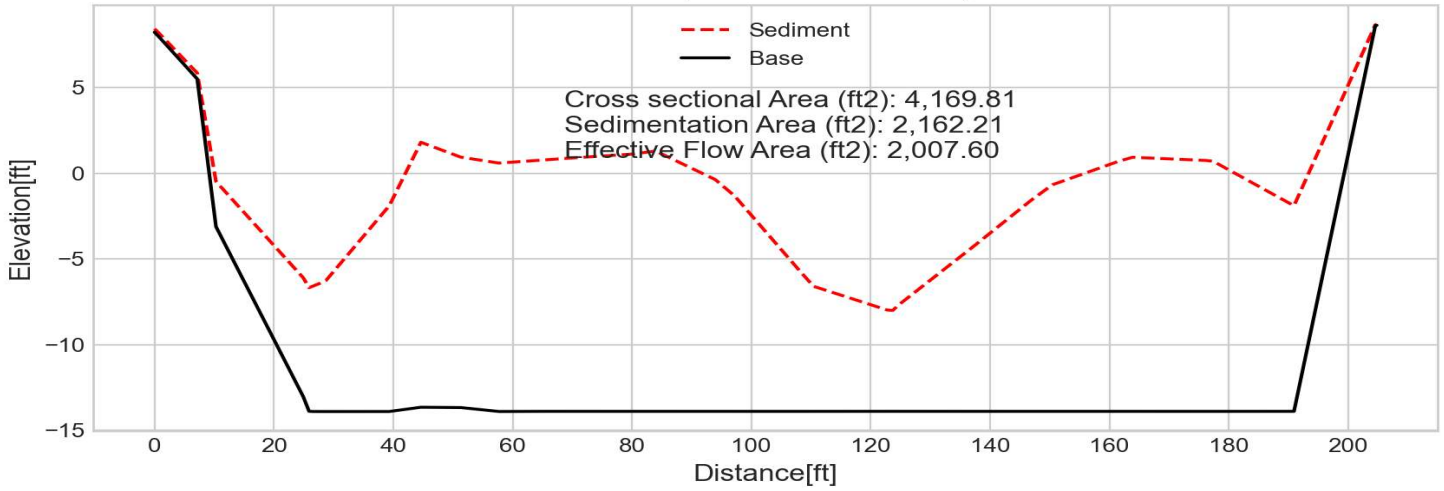
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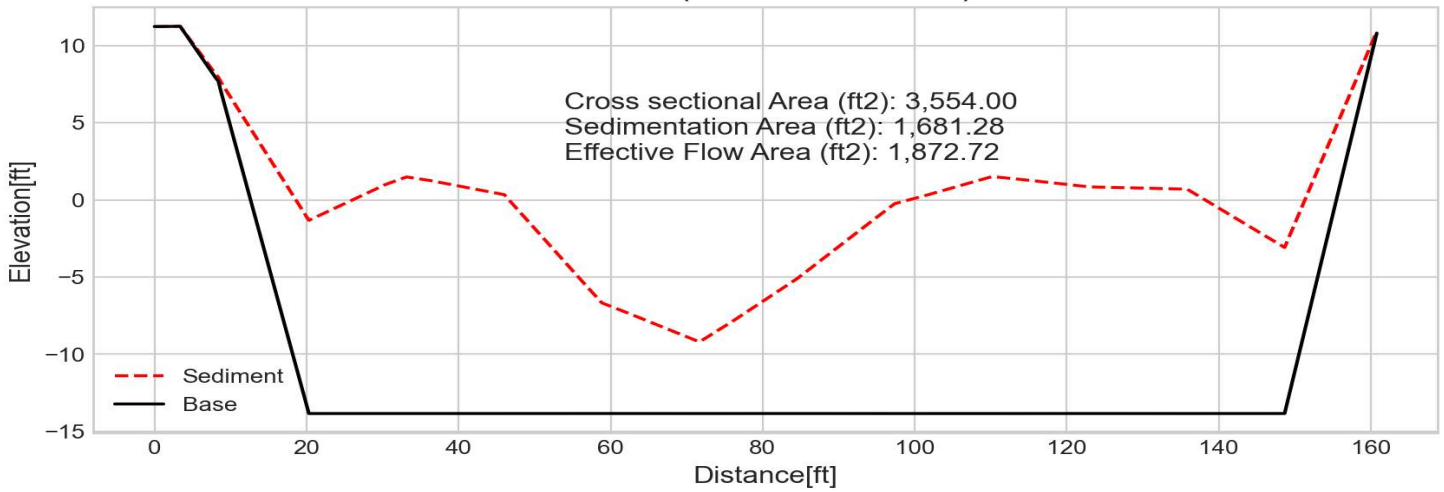
Year 6 (Station: 133+00)



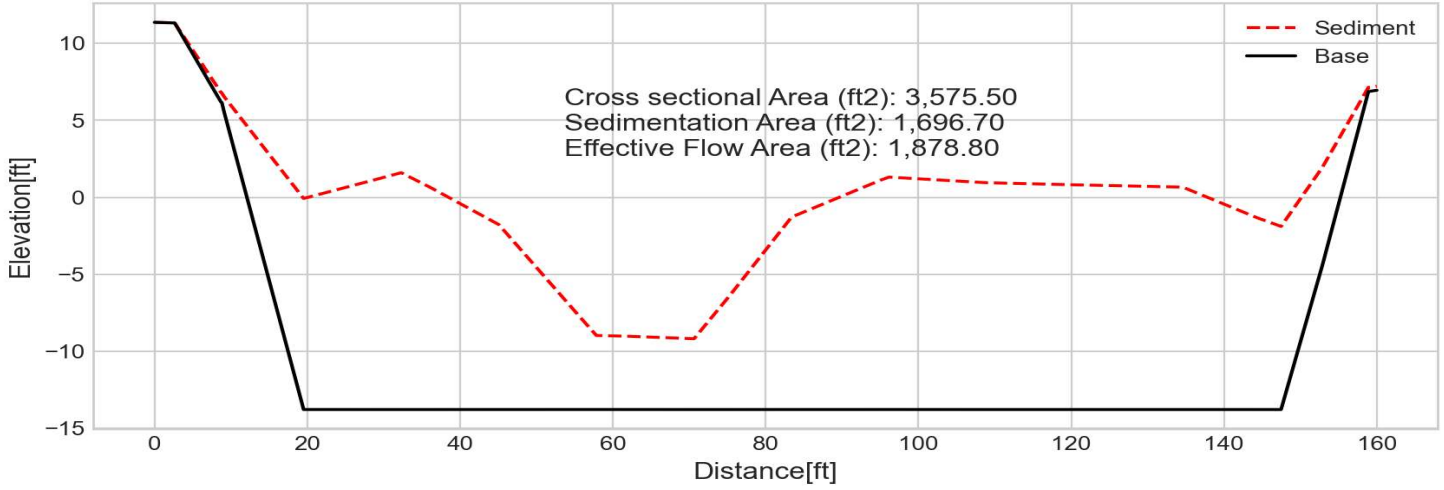
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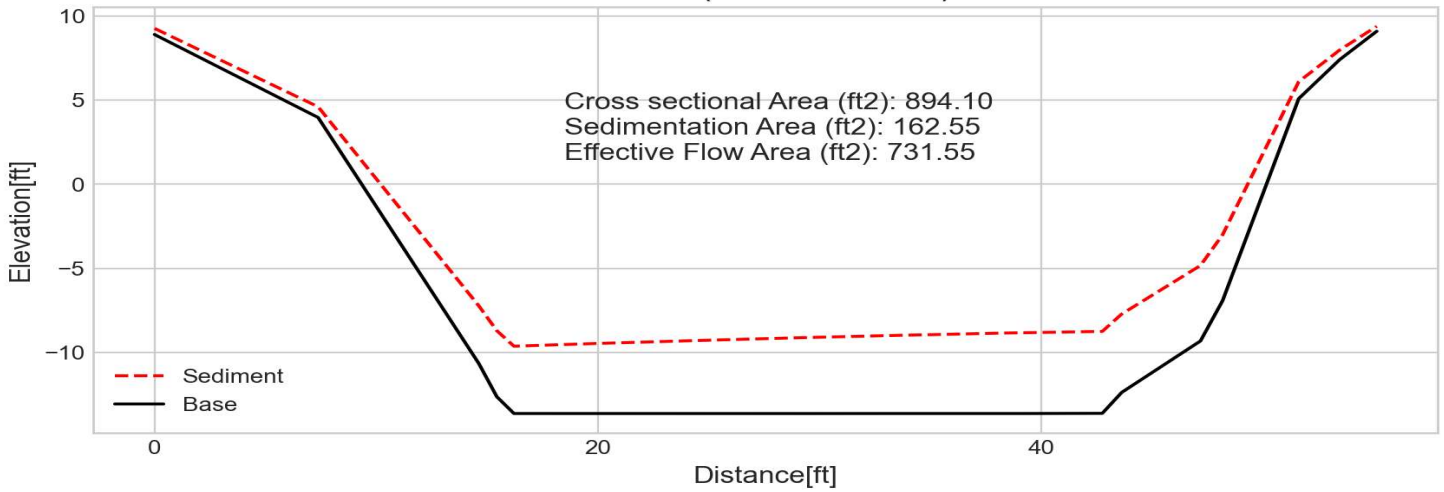
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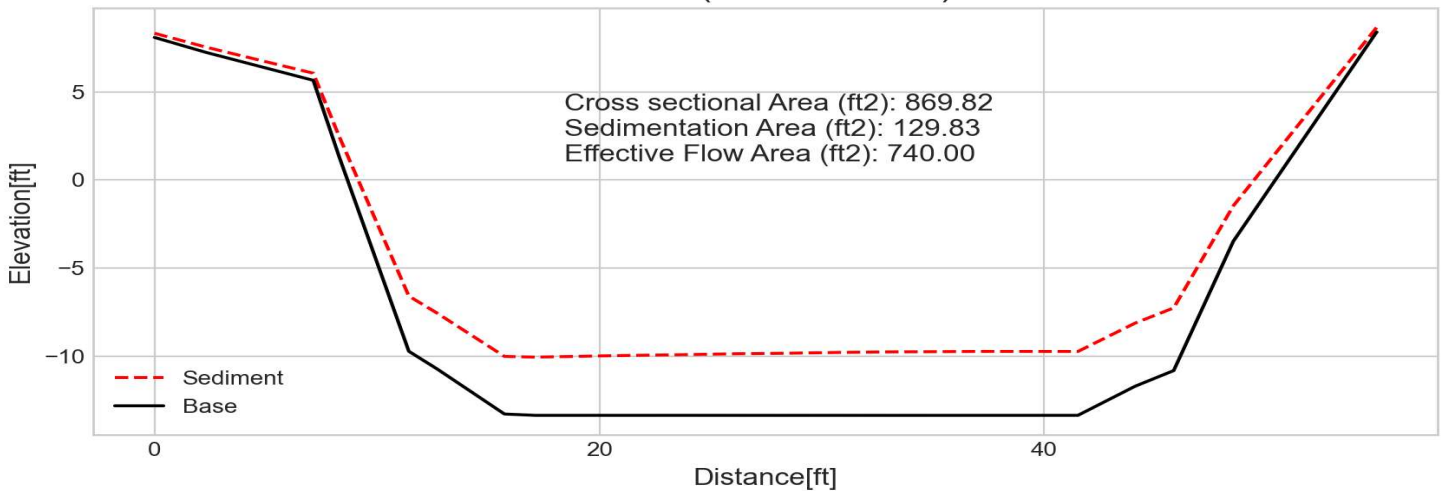
Year 6 (Station: 136+00)



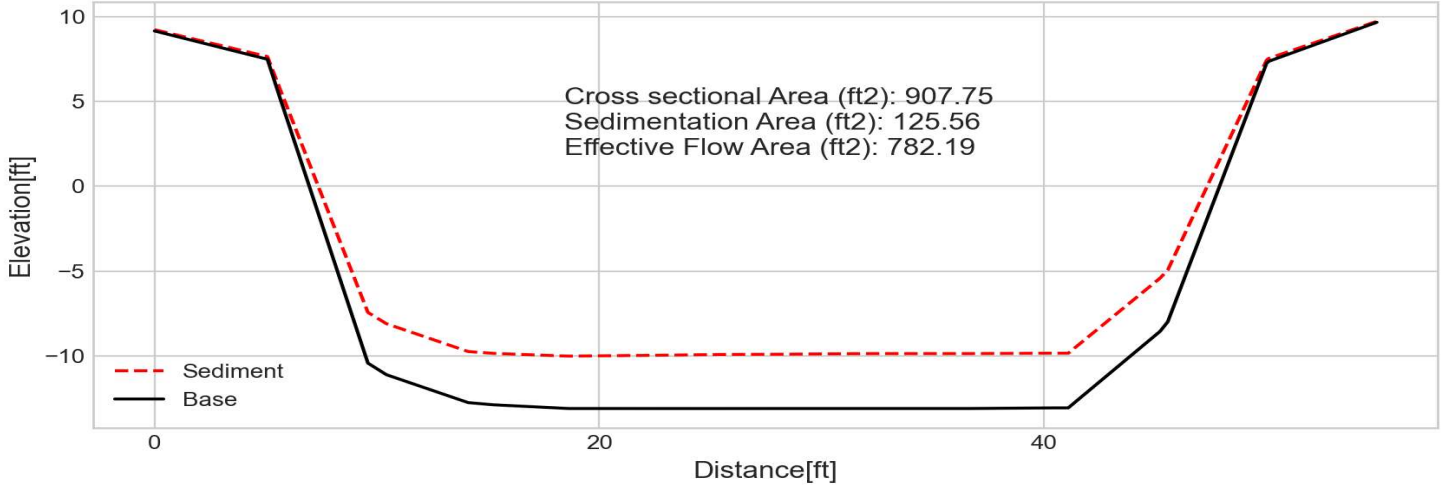
Year 6 (Station: 1+00)



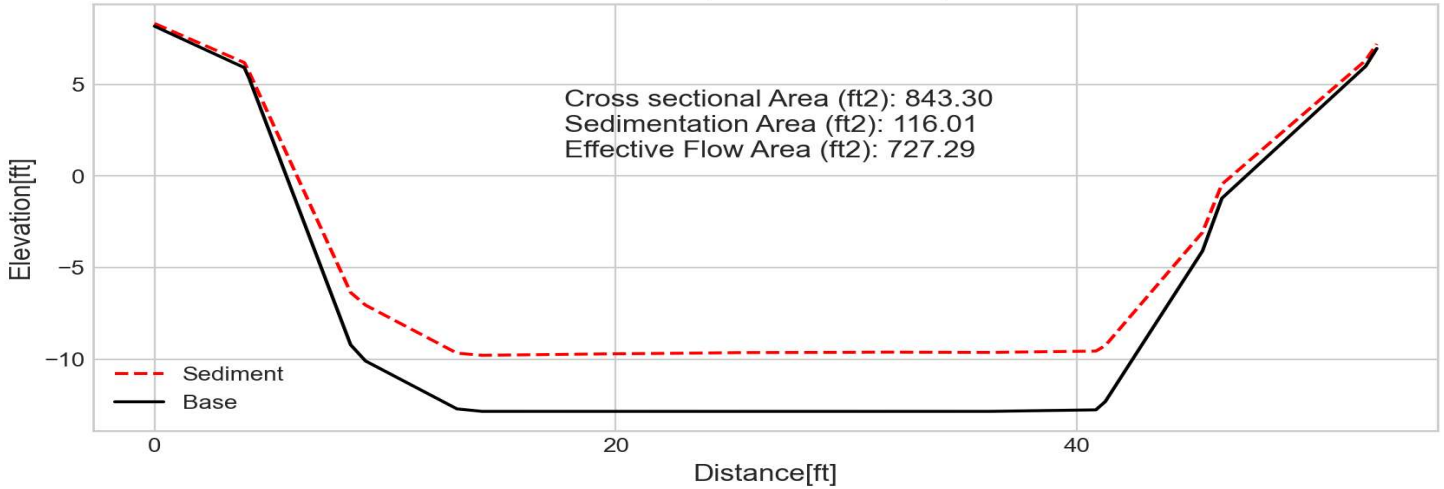
Year 6 (Station: 2+00)



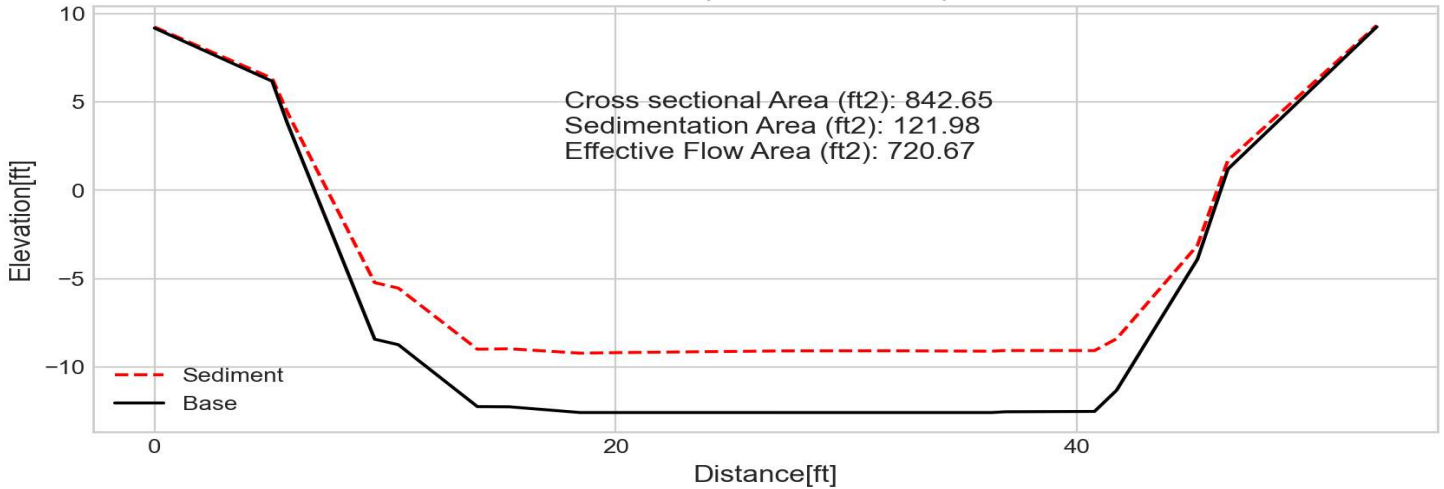
Year 6 (Station: 3+00)



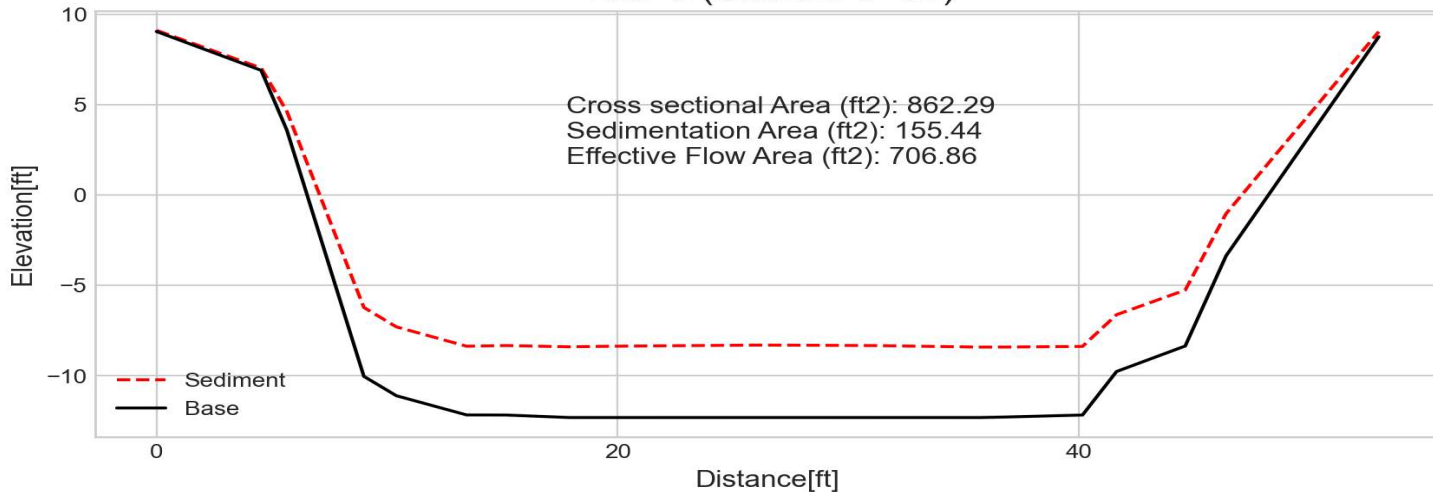
Year 6 (Station: 4+00)



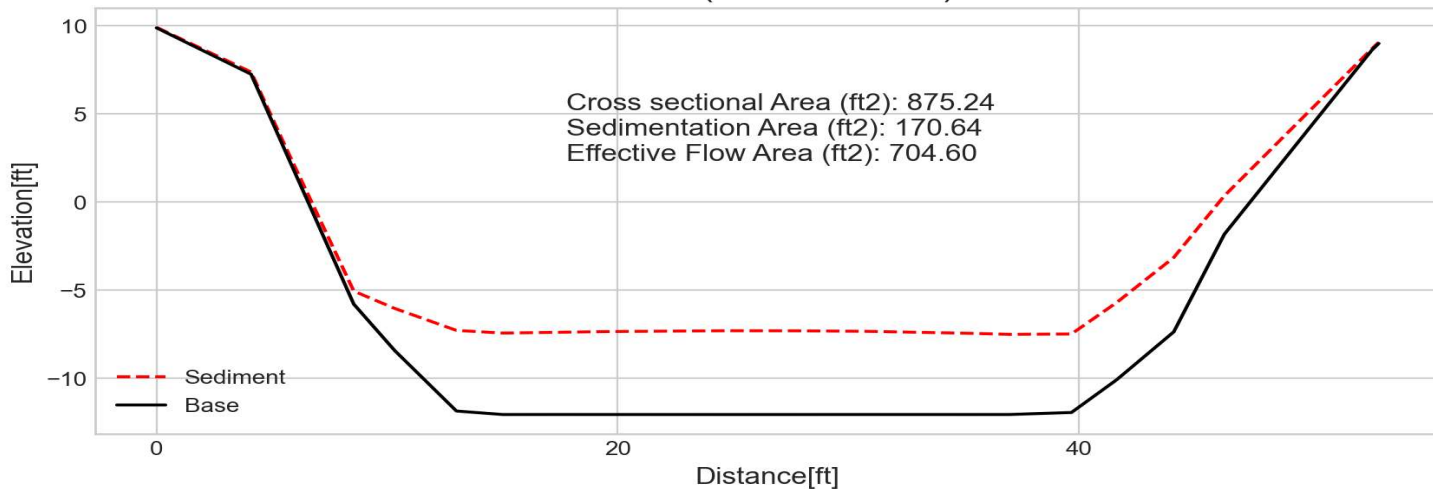
Year 6 (Station: 5+00)



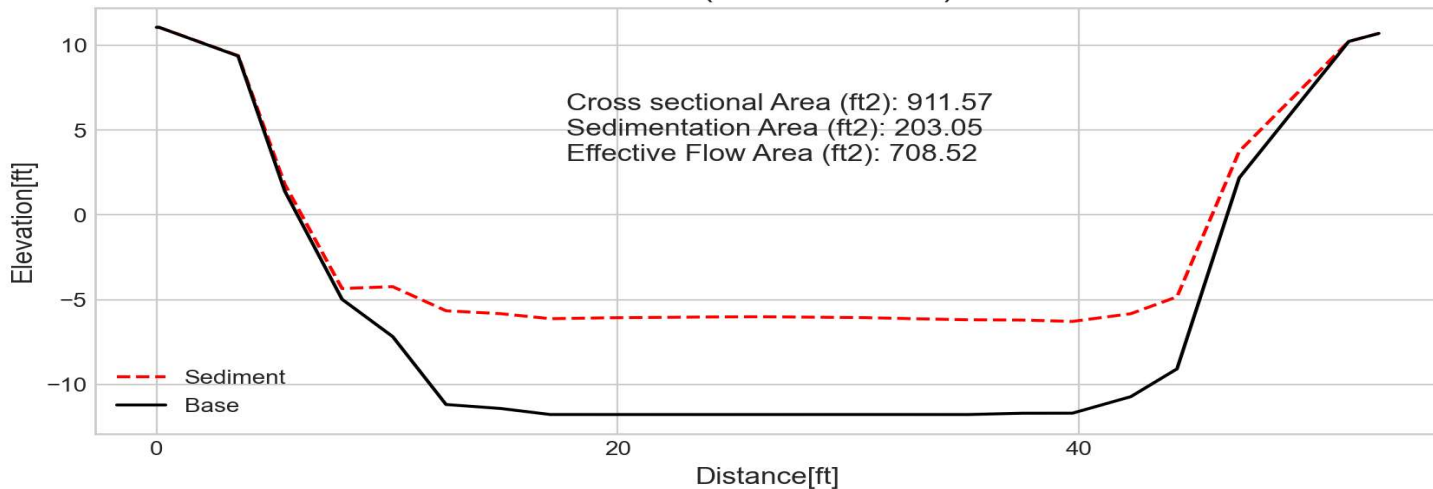
Year 6 (Station: 6+00)



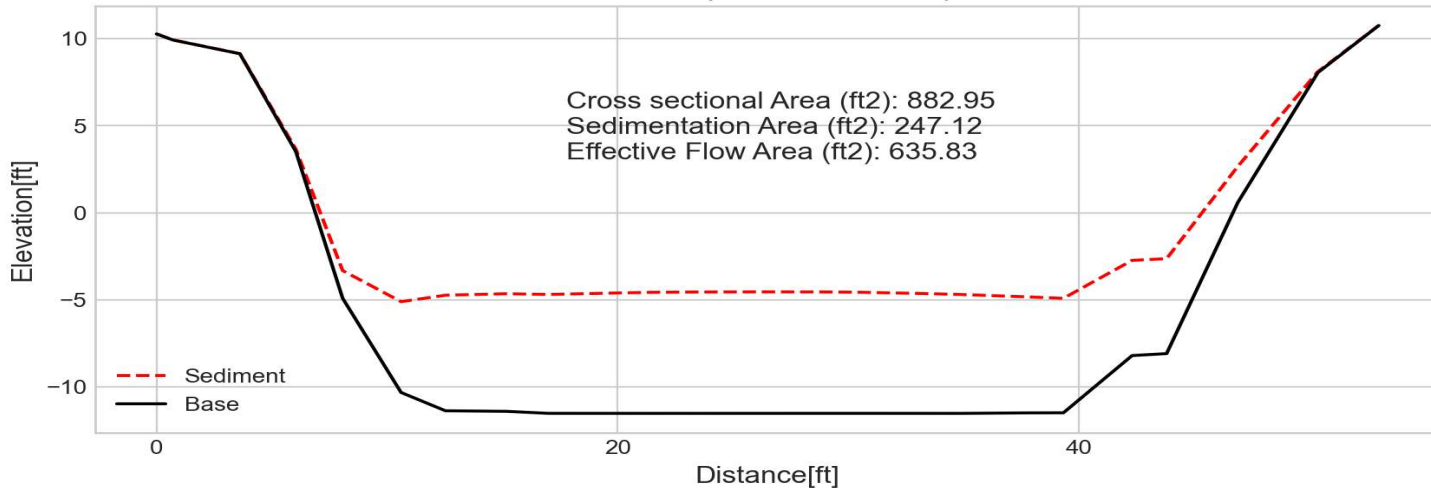
Year 6 (Station: 7+00)



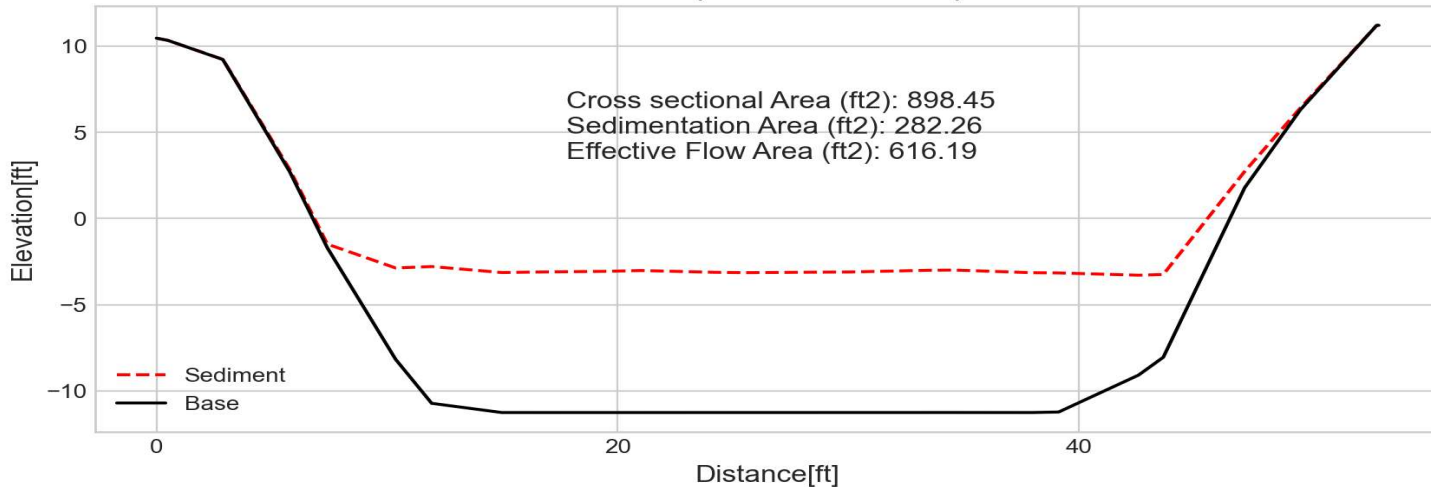
Year 6 (Station: 8+00)



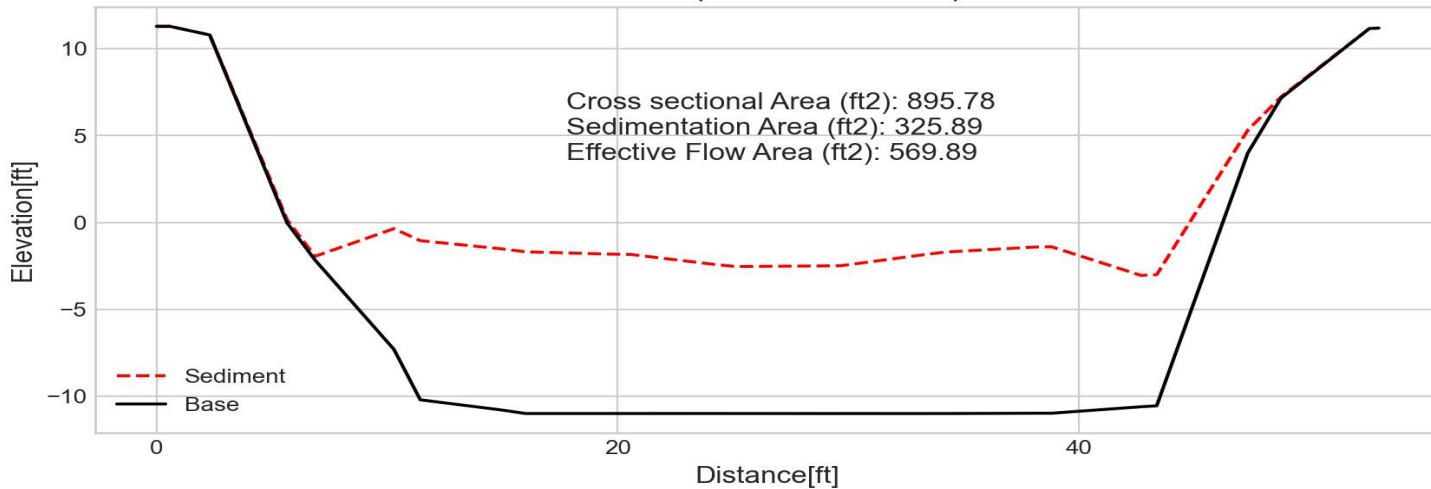
Year 6 (Station: 9+00)



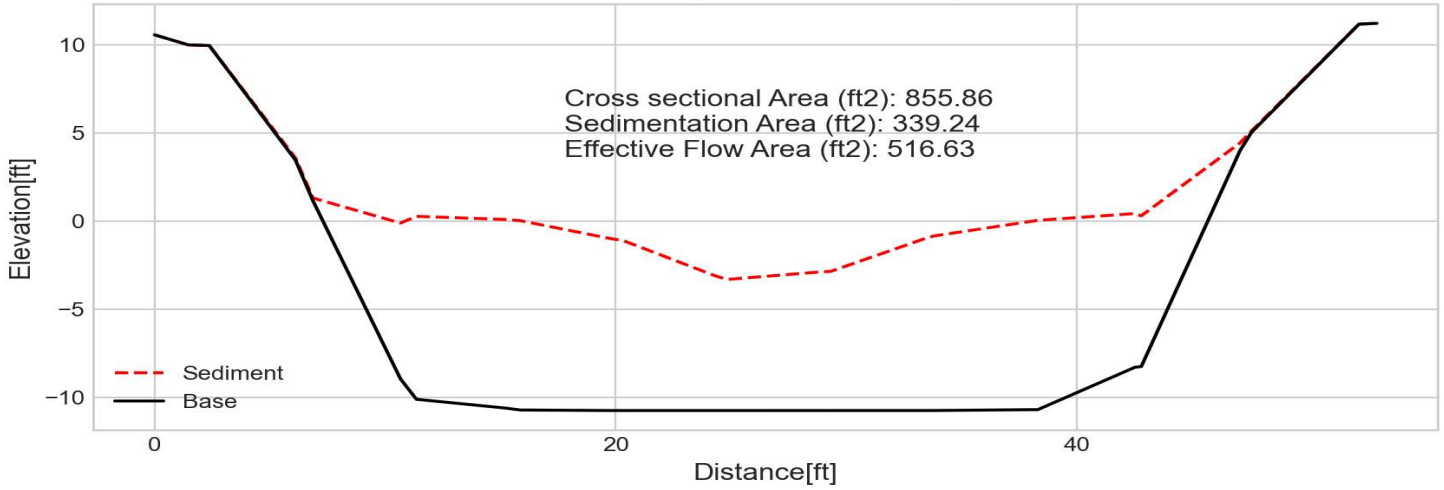
Year 6 (Station: 10+00)



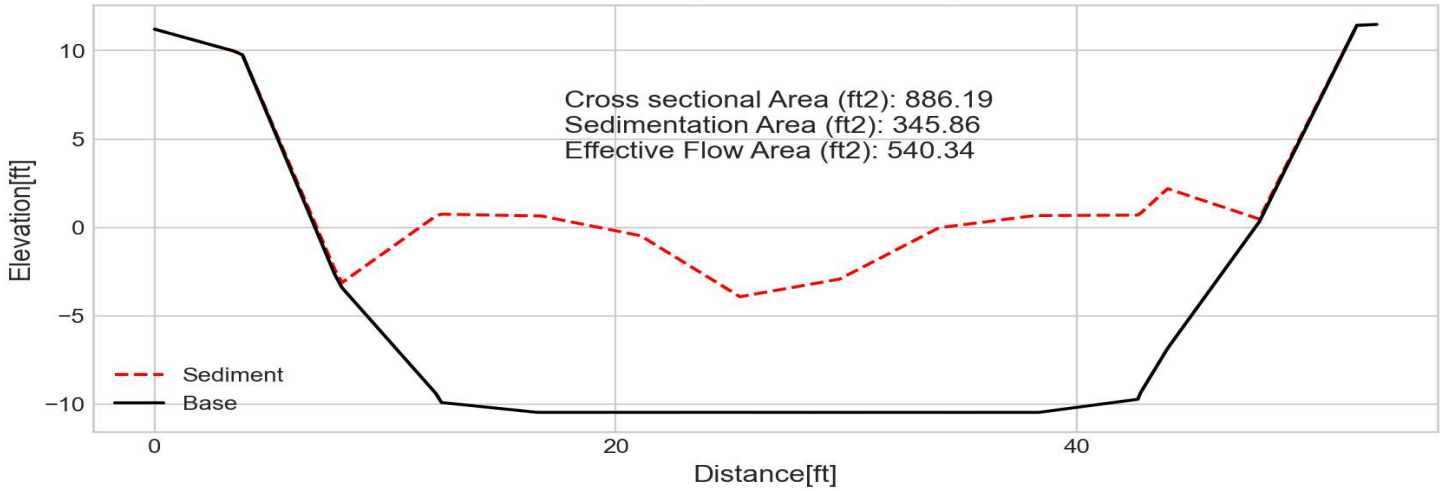
Year 6 (Station: 11+00)



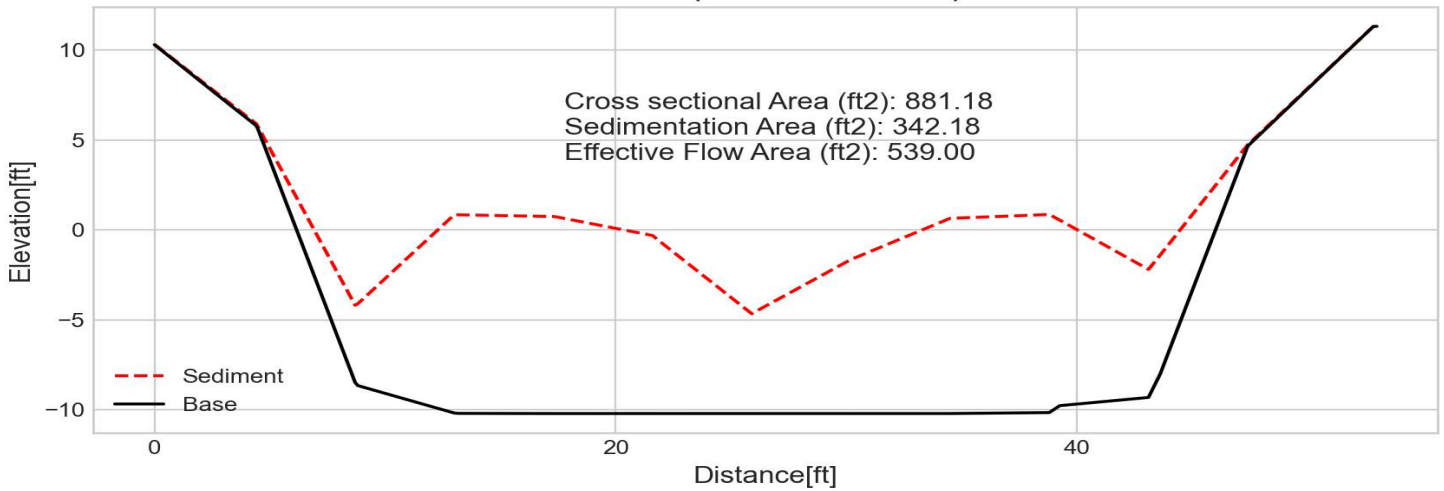
Year 6 (Station: 12+00)



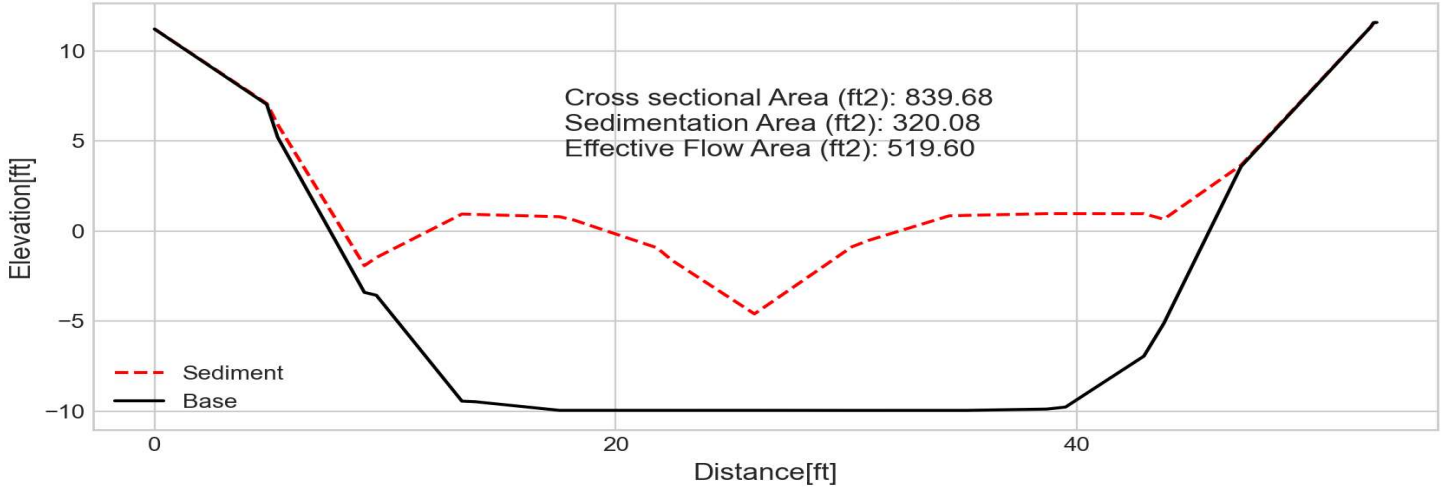
Year 6 (Station: 13+00)



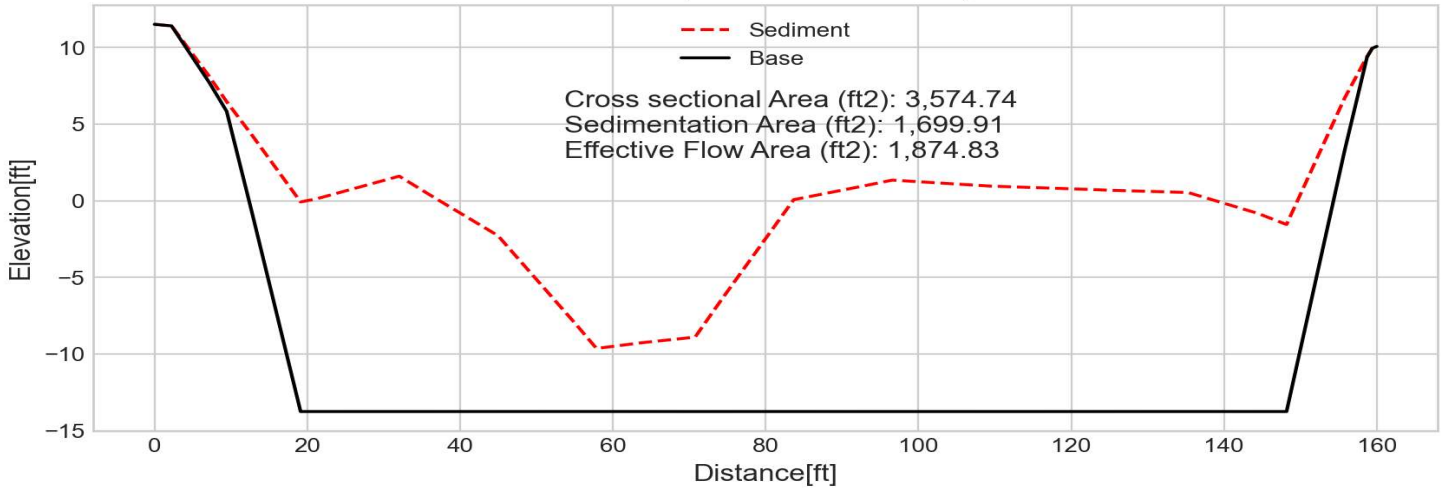
Year 6 (Station: 14+00)



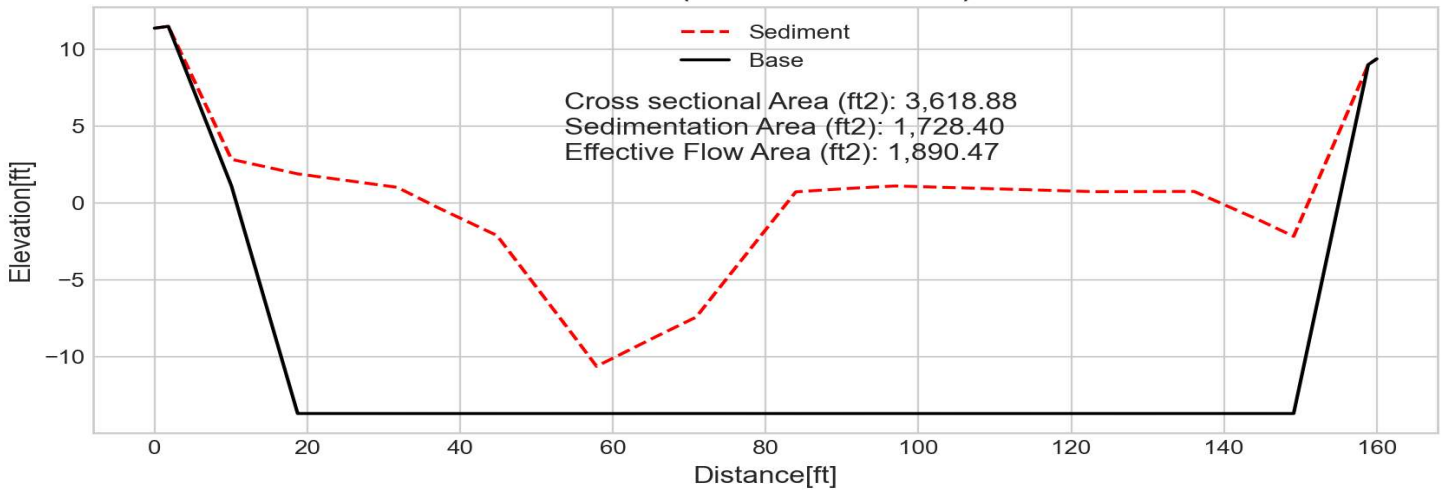
Year 6 (Station: 15+00)



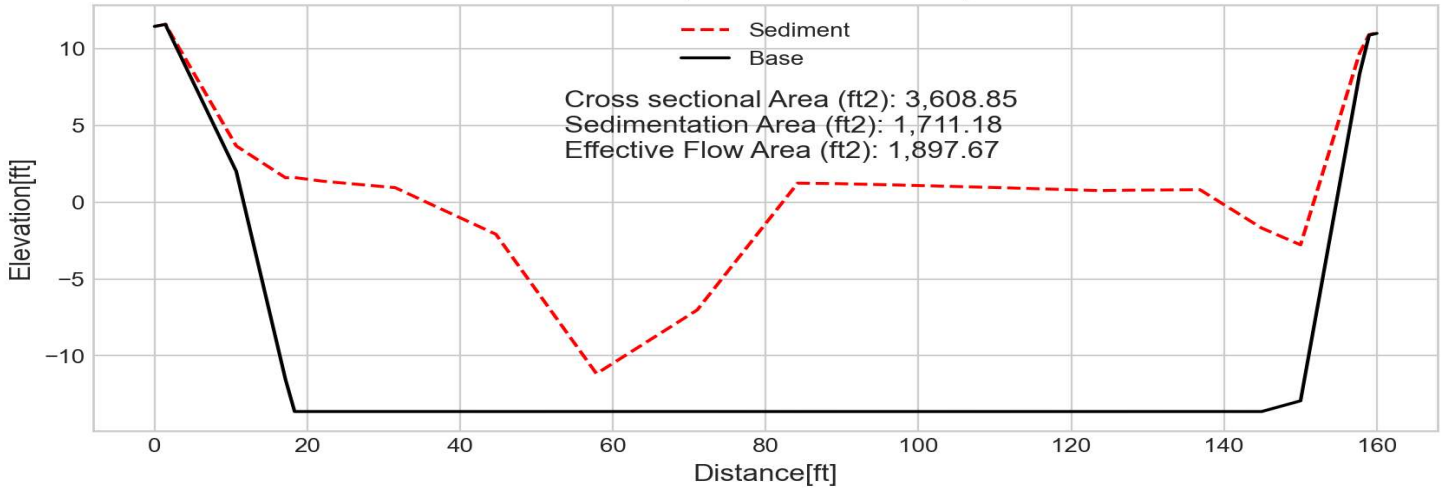
Year 6 (Station: 137+00)



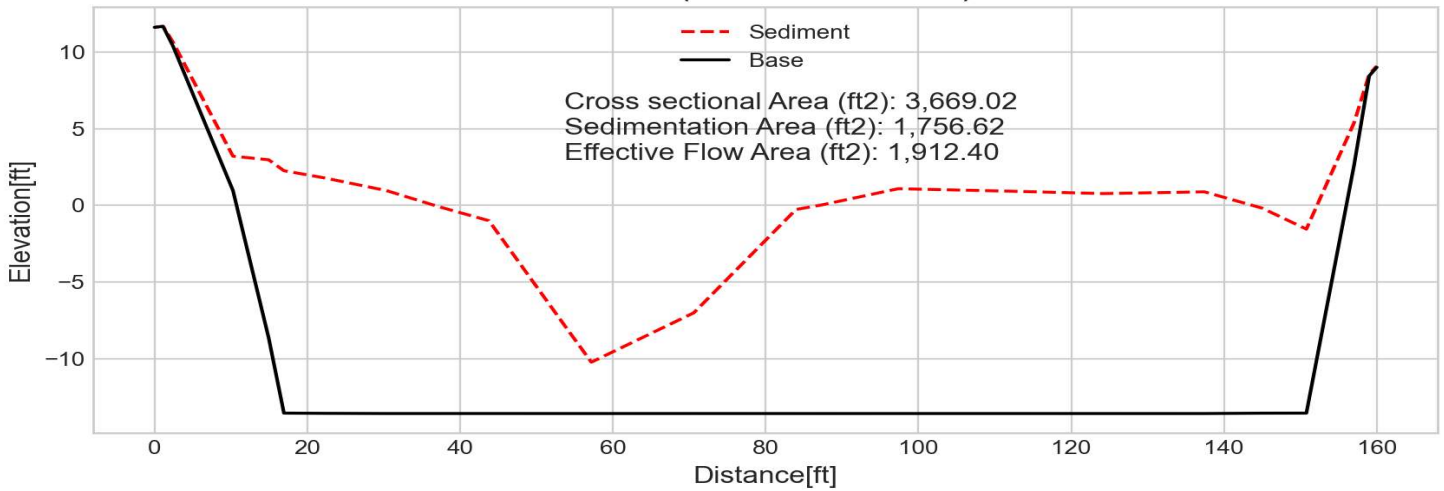
Year 6 (Station: 138+00)



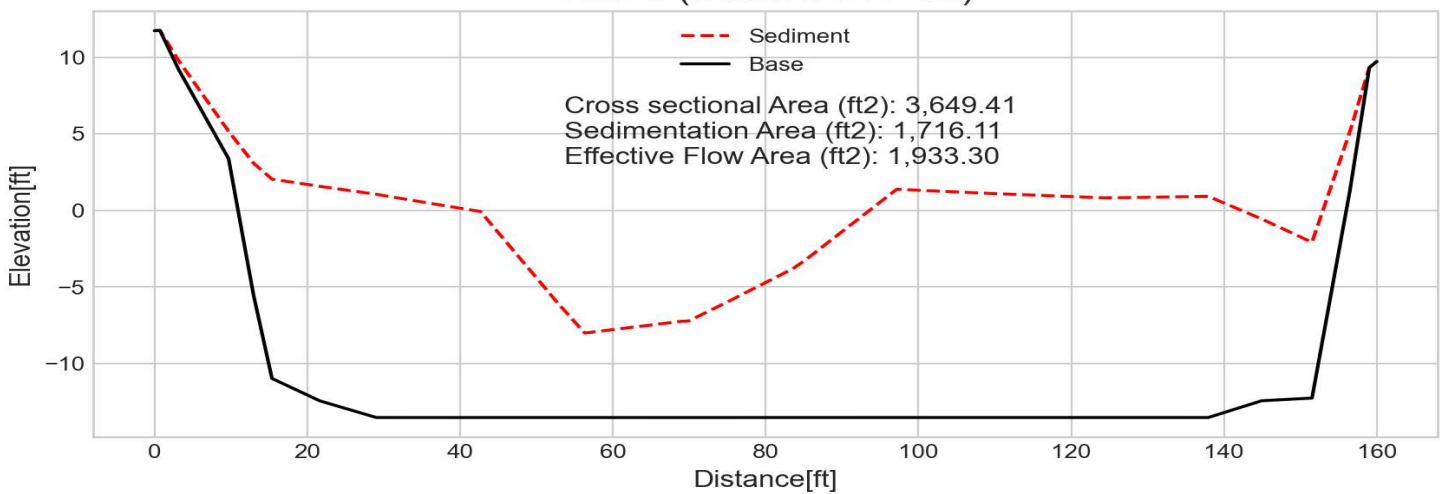
Year 6 (Station: 139+00)



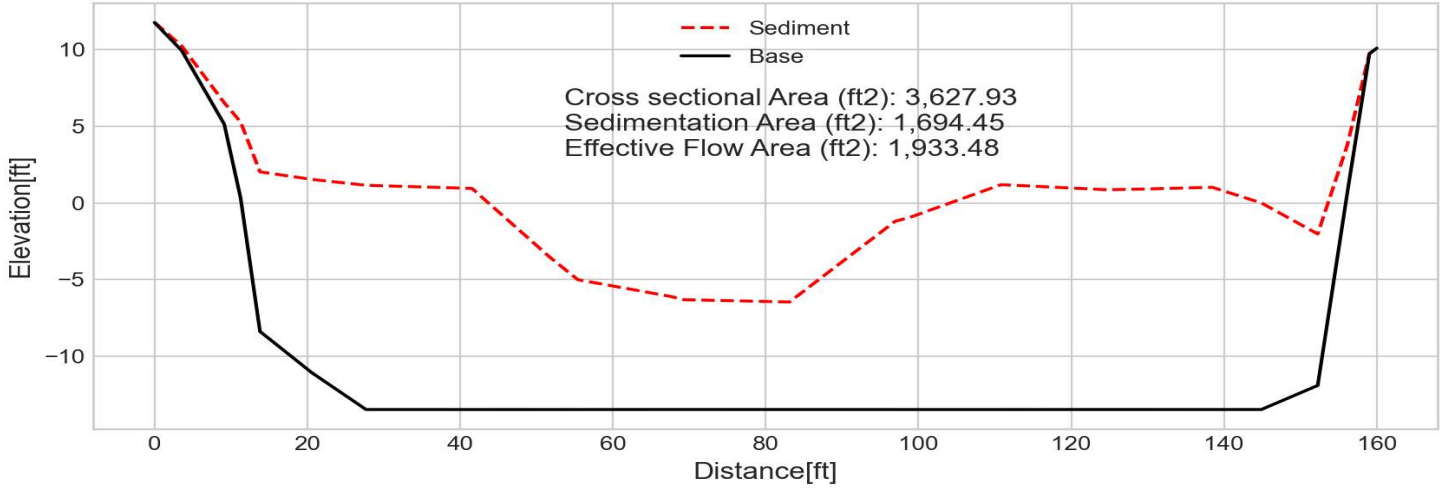
Year 6 (Station: 140+00)



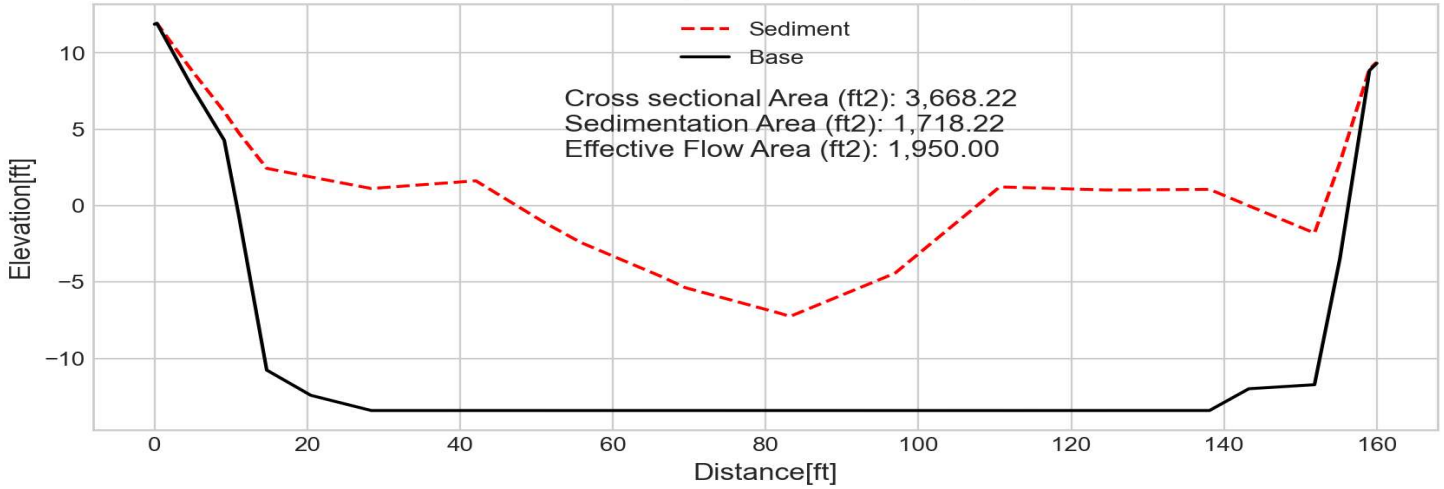
Year 6 (Station: 141+00)



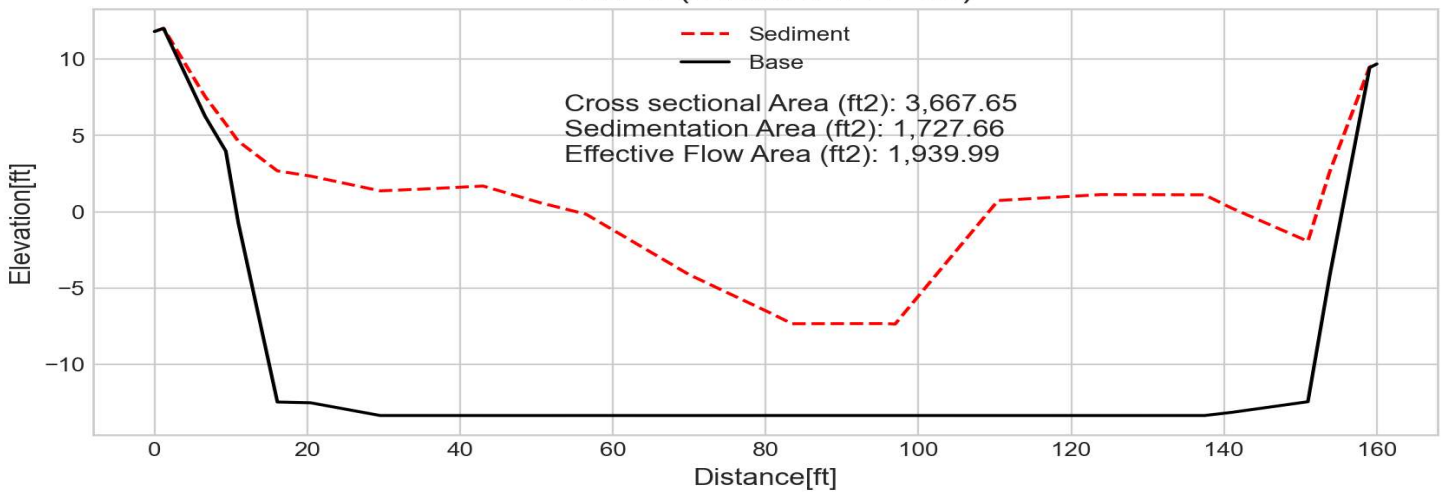
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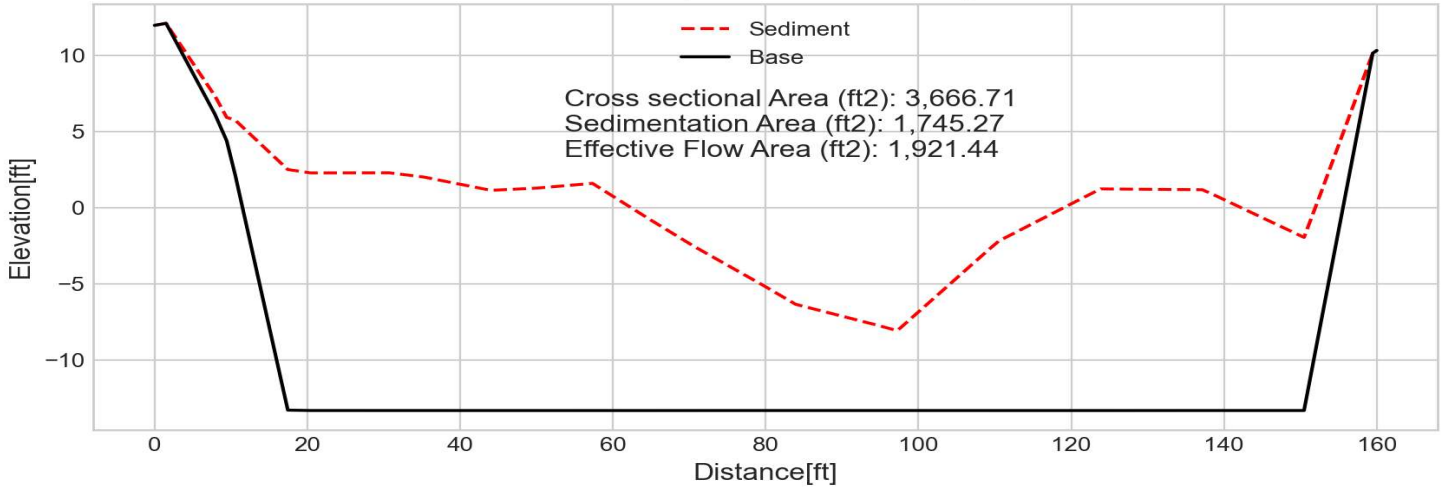
Year 6 (Station: 143+00)



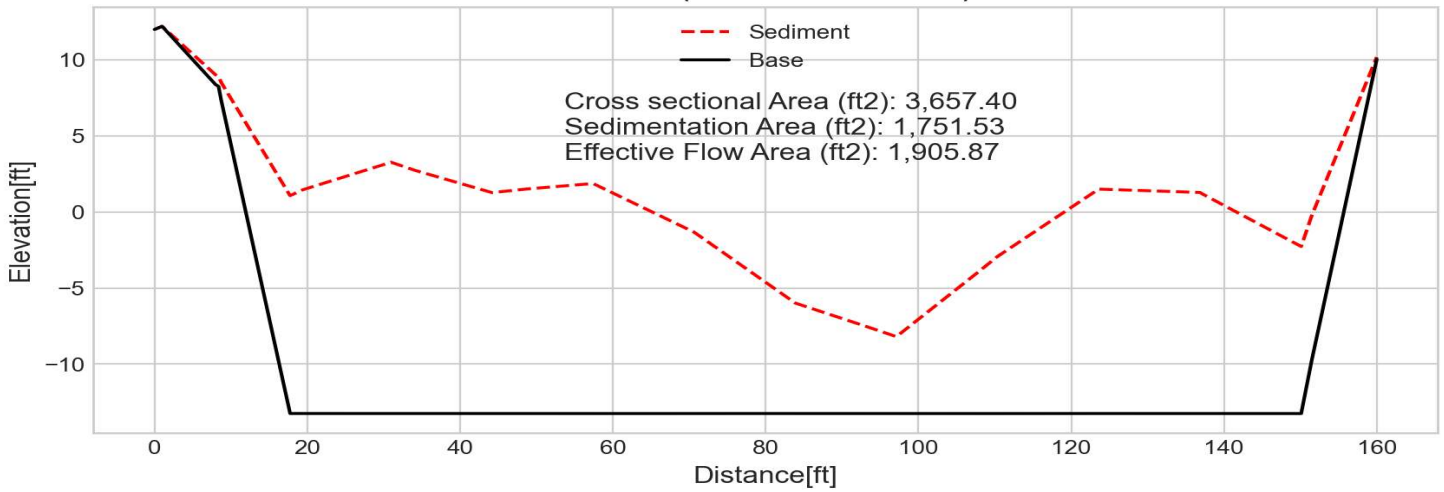
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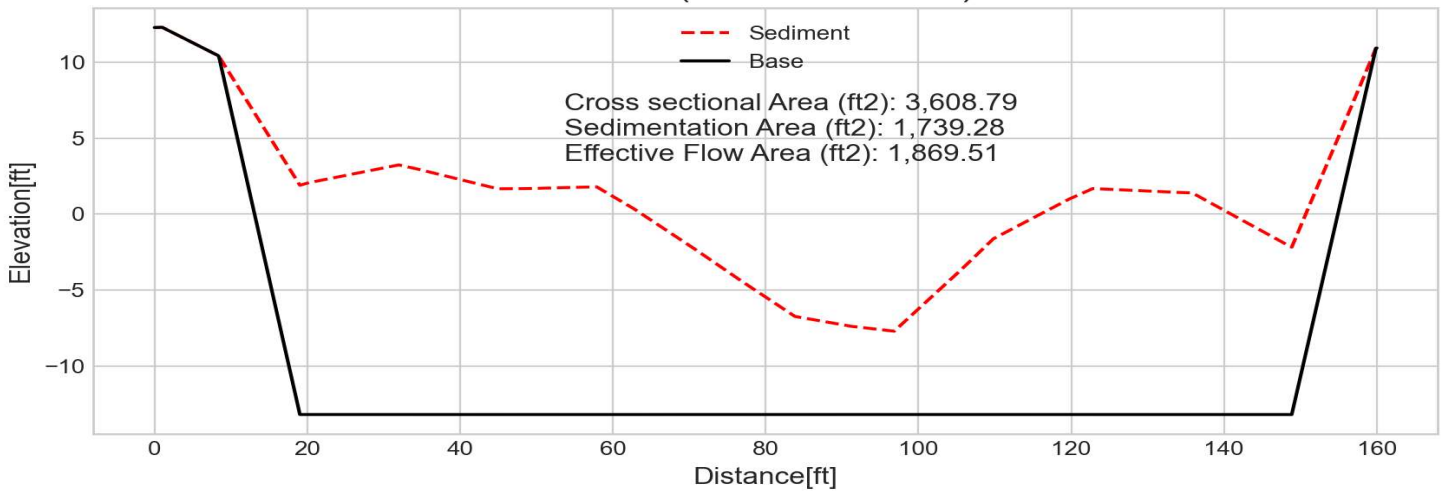
Year 6 (Station: 145+00)



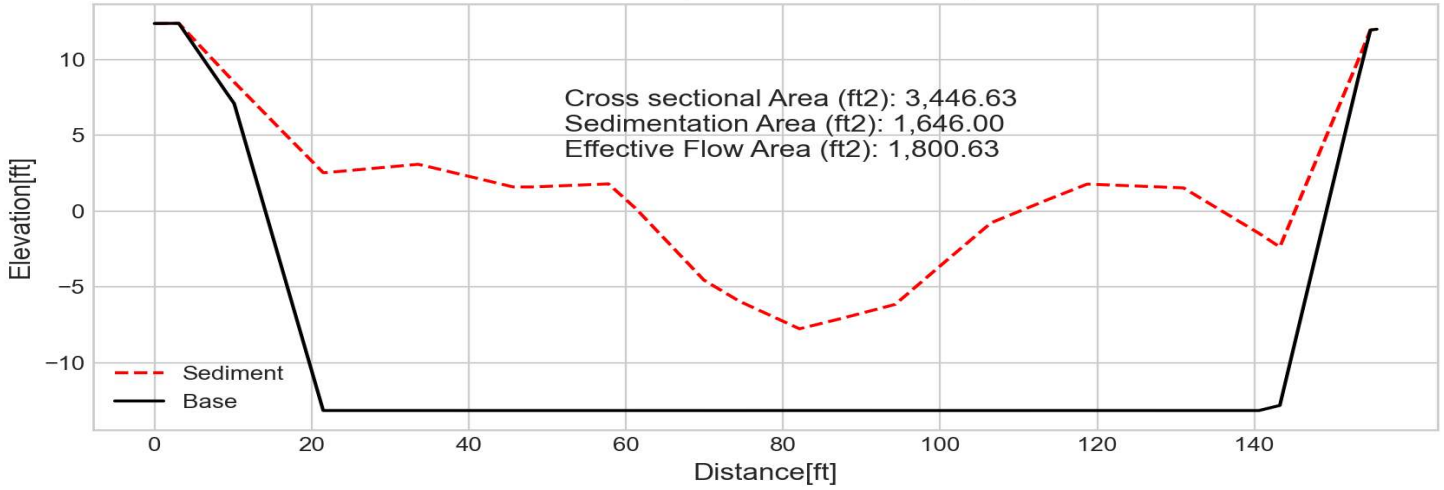
Year 6 (Station: 146+00)



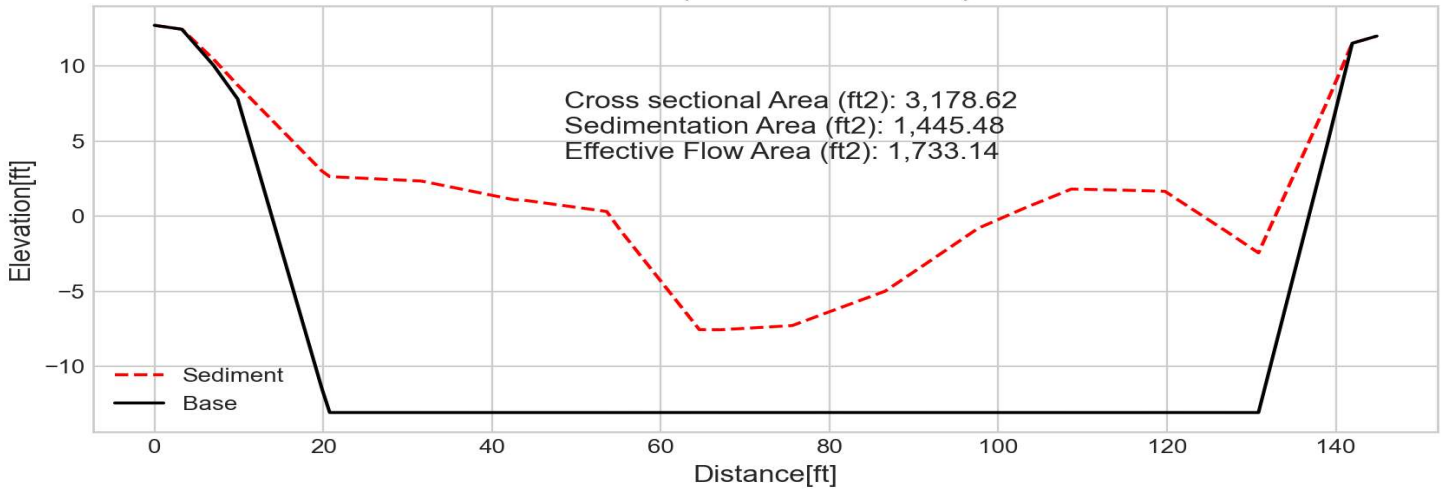
Year 6 (Station: 147+00)



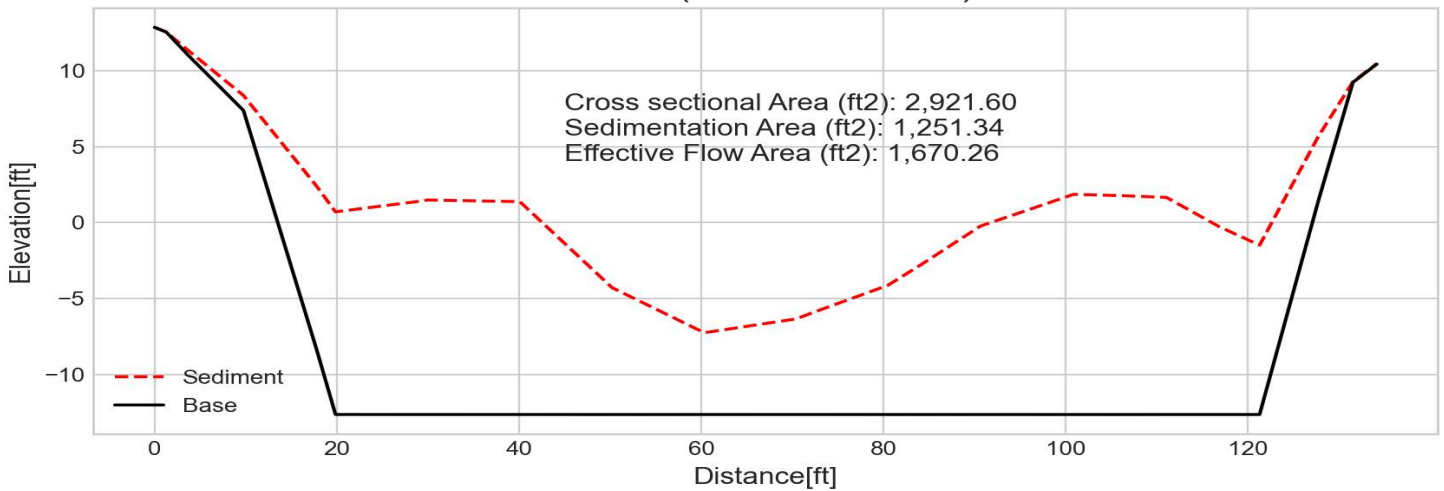
Year 6 (Station: 148+00)



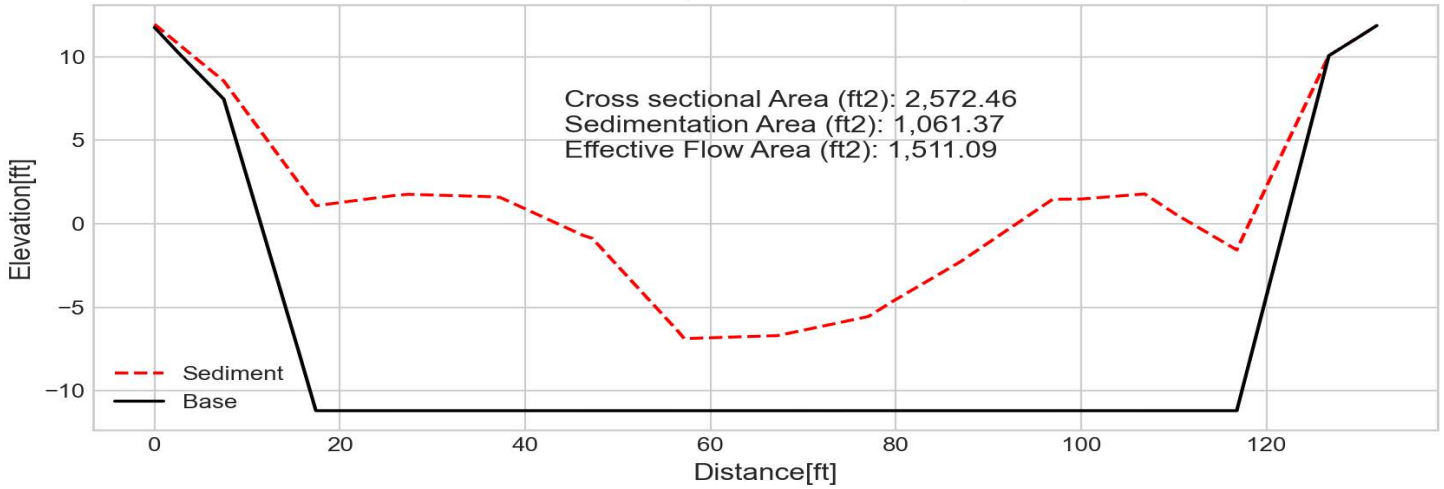
Year 6 (Station: 149+00)



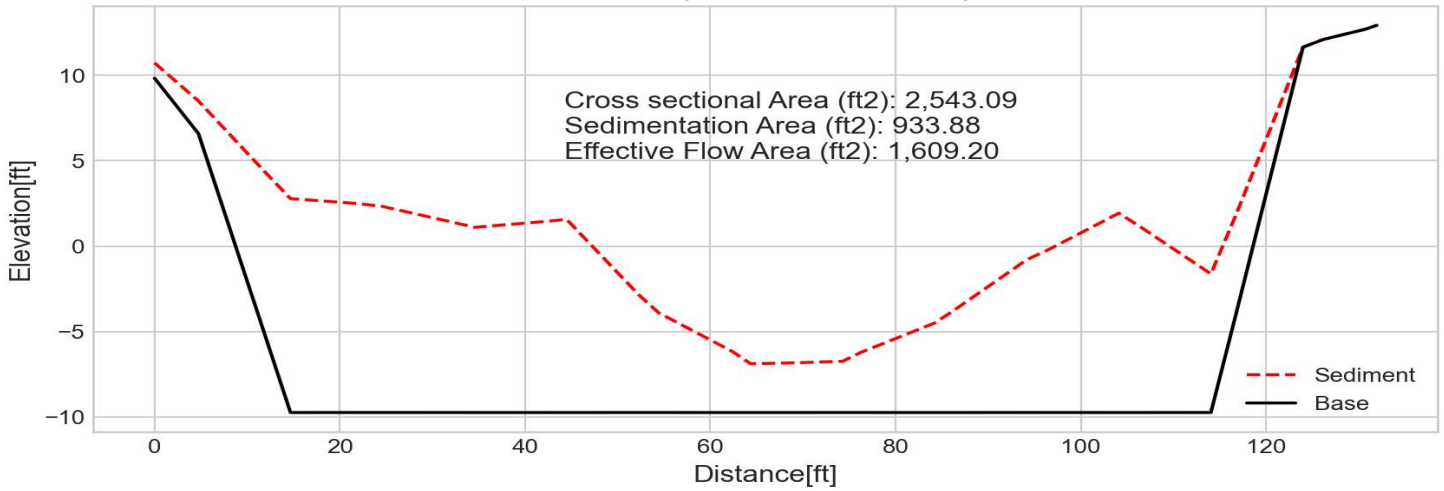
Year 6 (Station: 150+00)



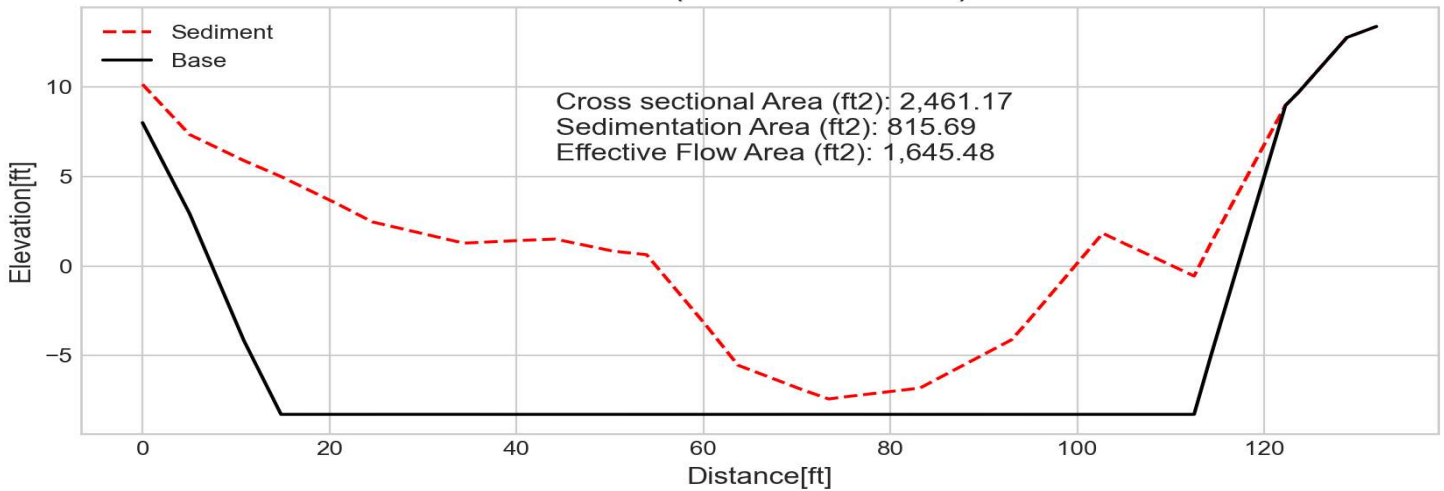
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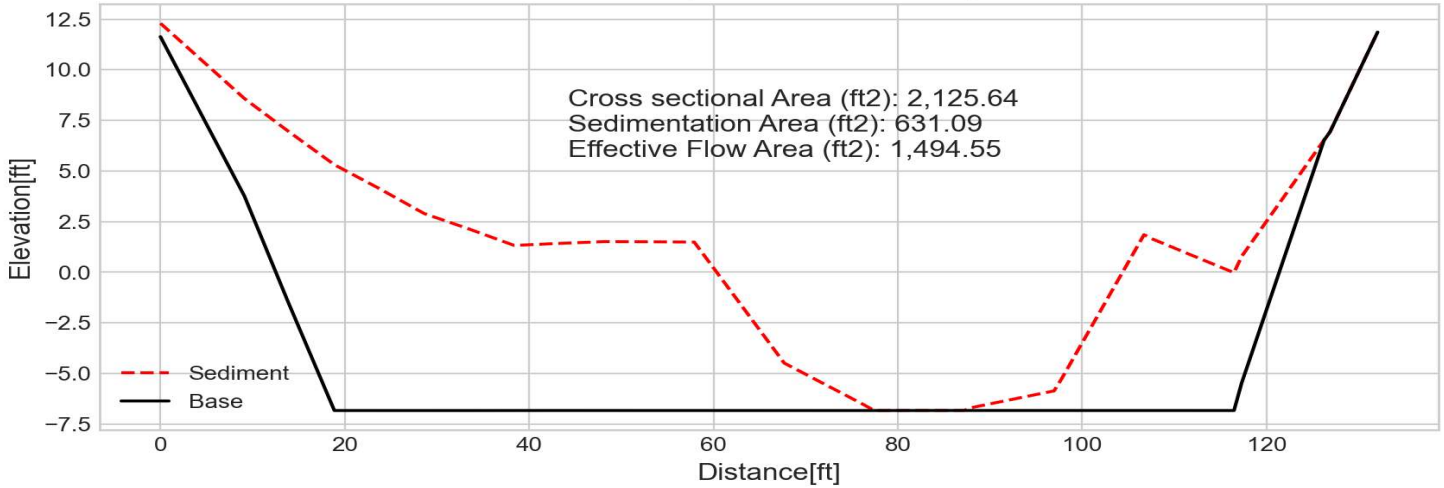
Year 6 (Station: 152+00)



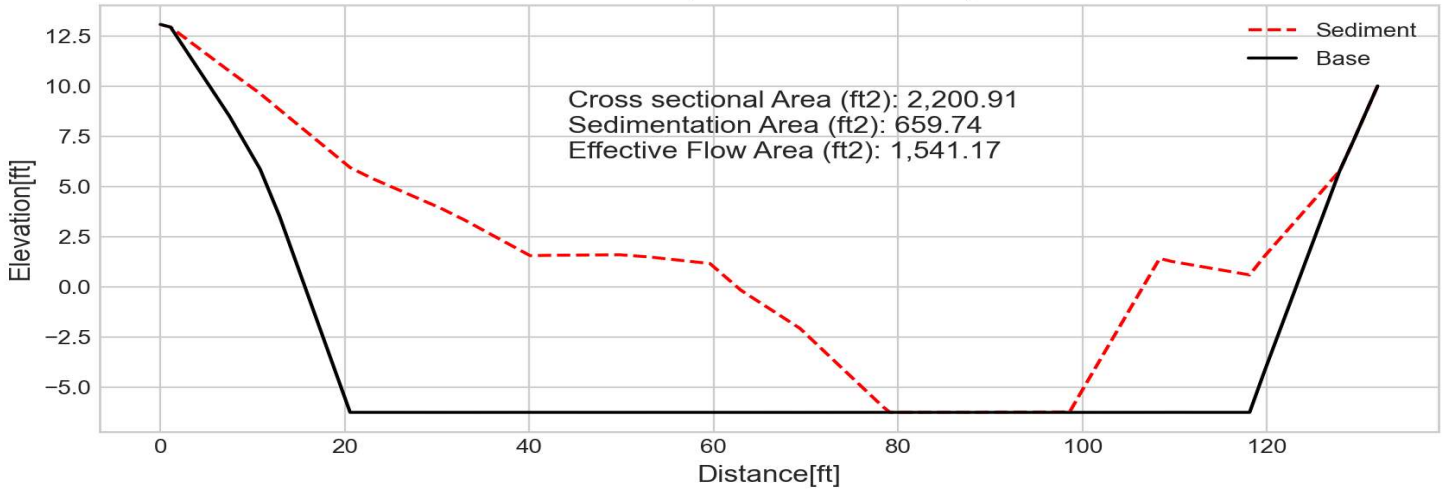
Year 6 (Station: 153+00)



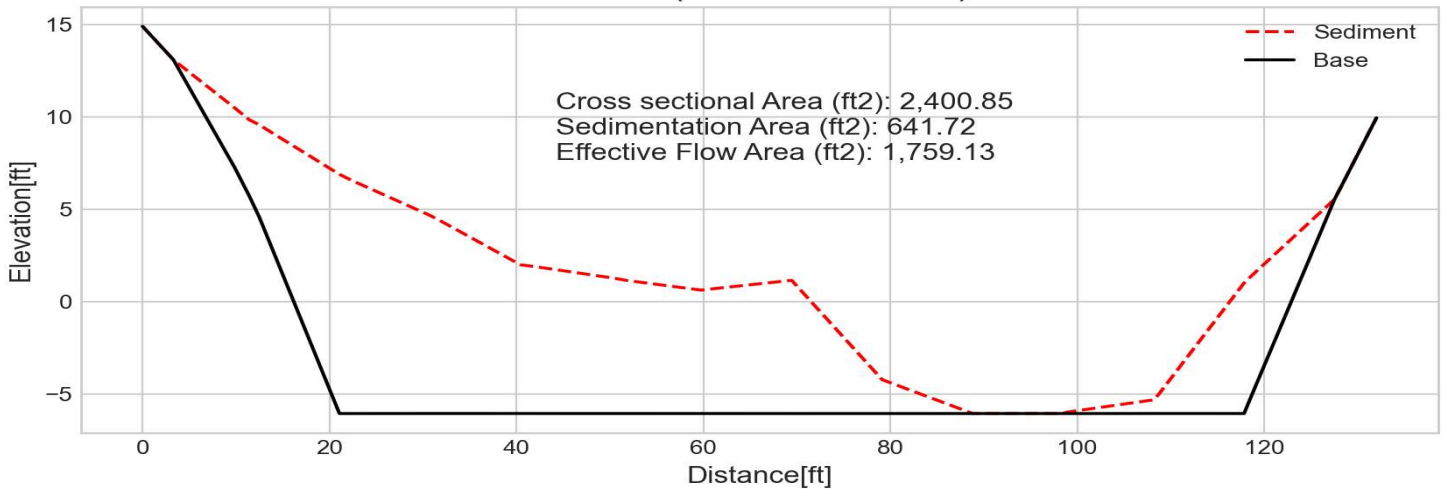
Year 6 (Station: 154+00)



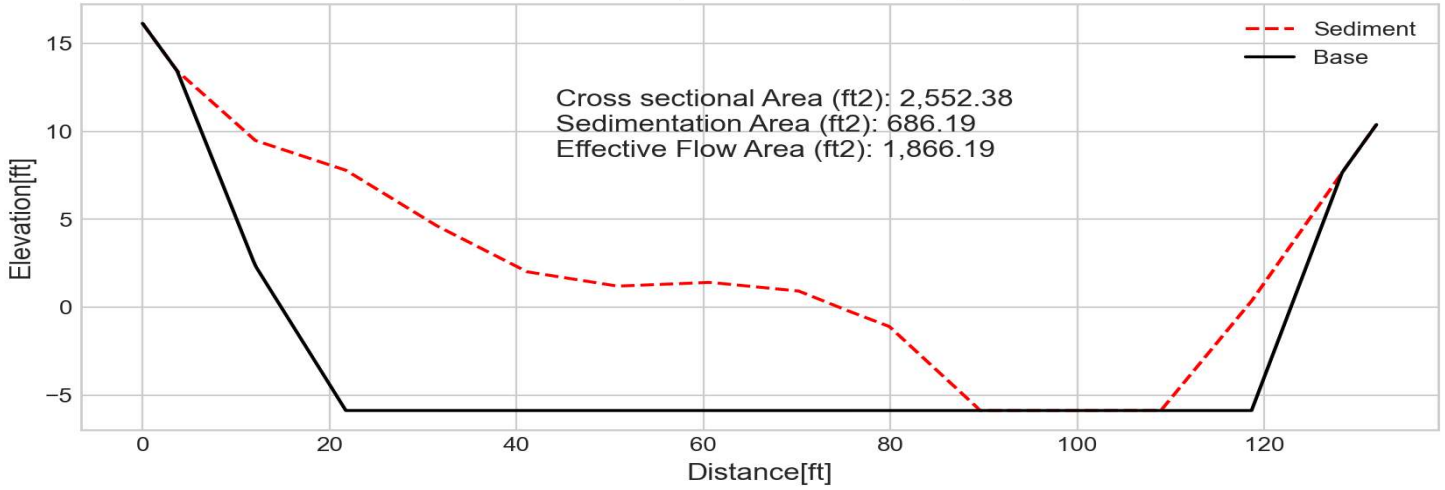
Year 6 (Station: 155+00)



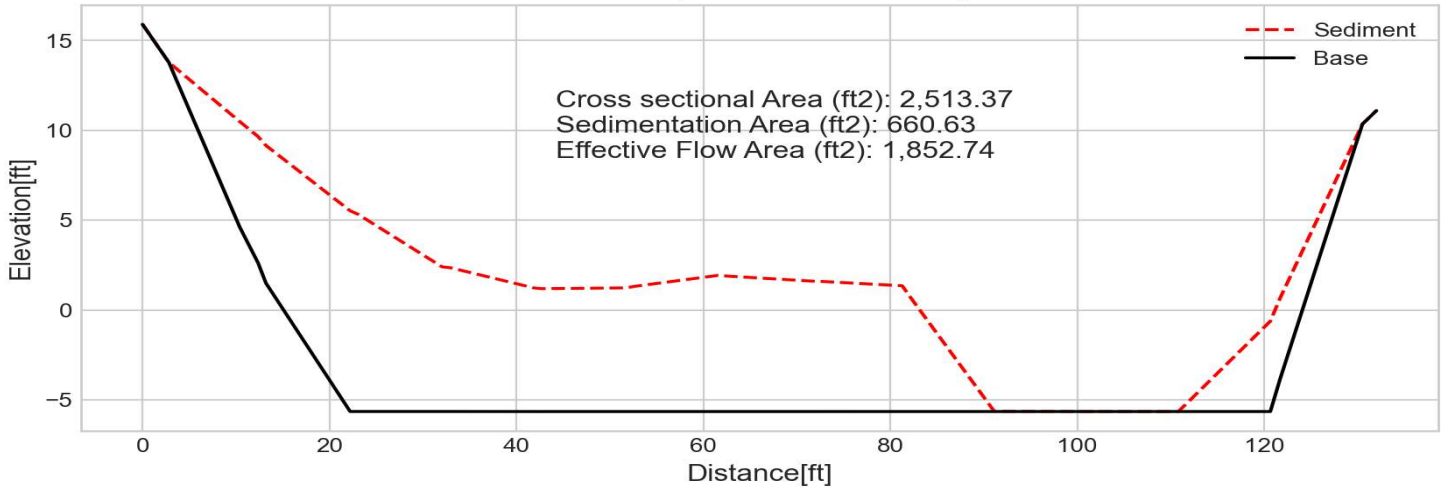
Year 6 (Station: 156+00)



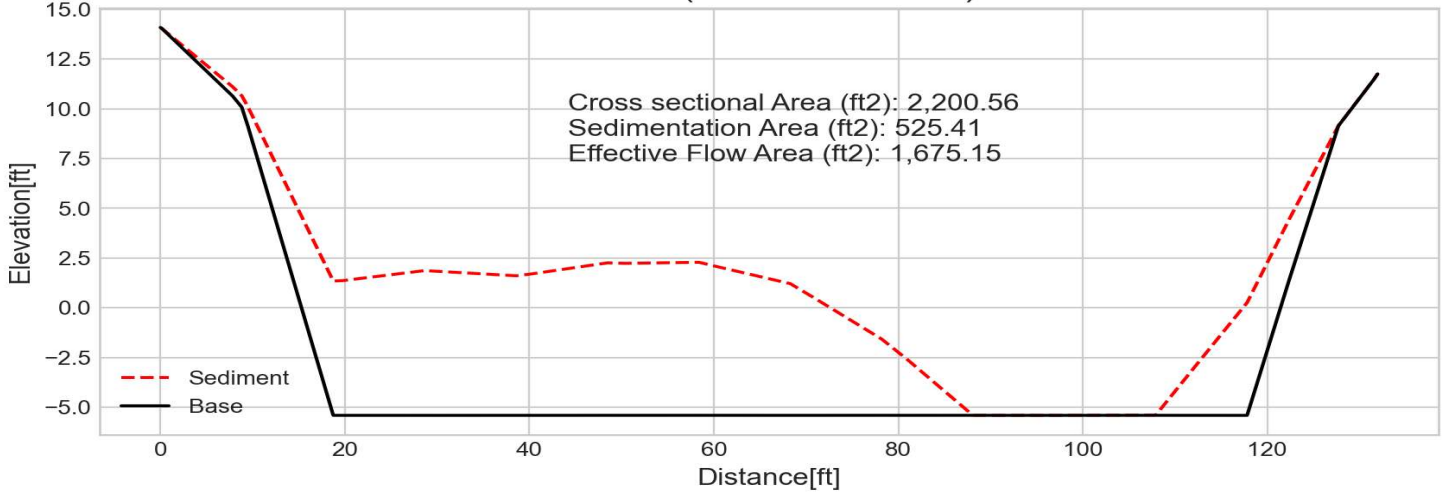
Year 6 (Station: 157+00)



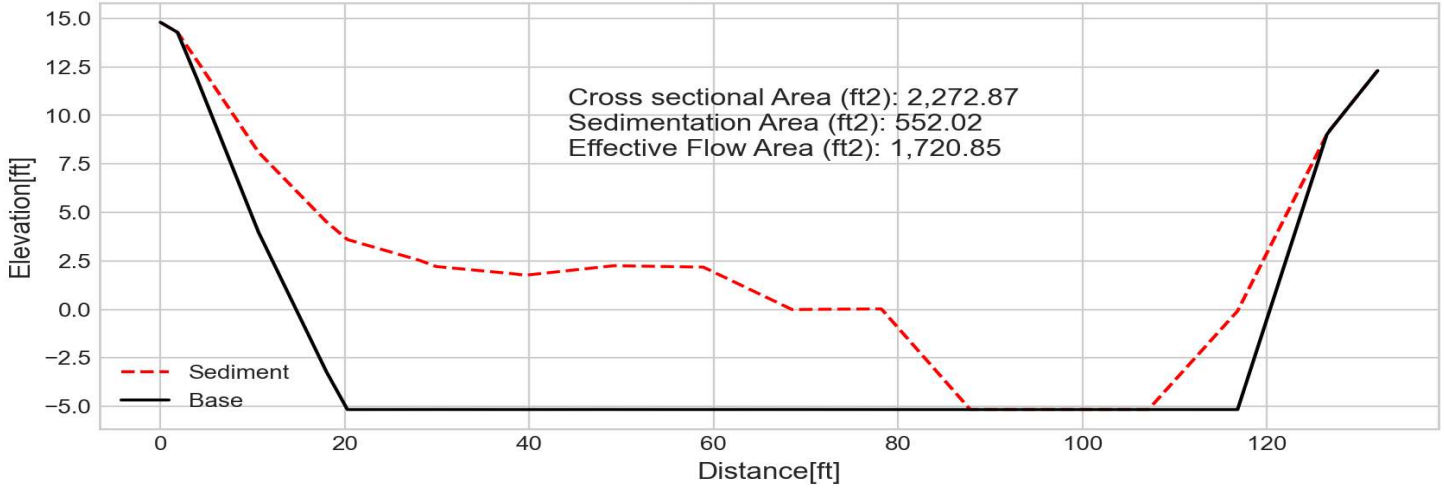
Year 6 (Station: 158+00)



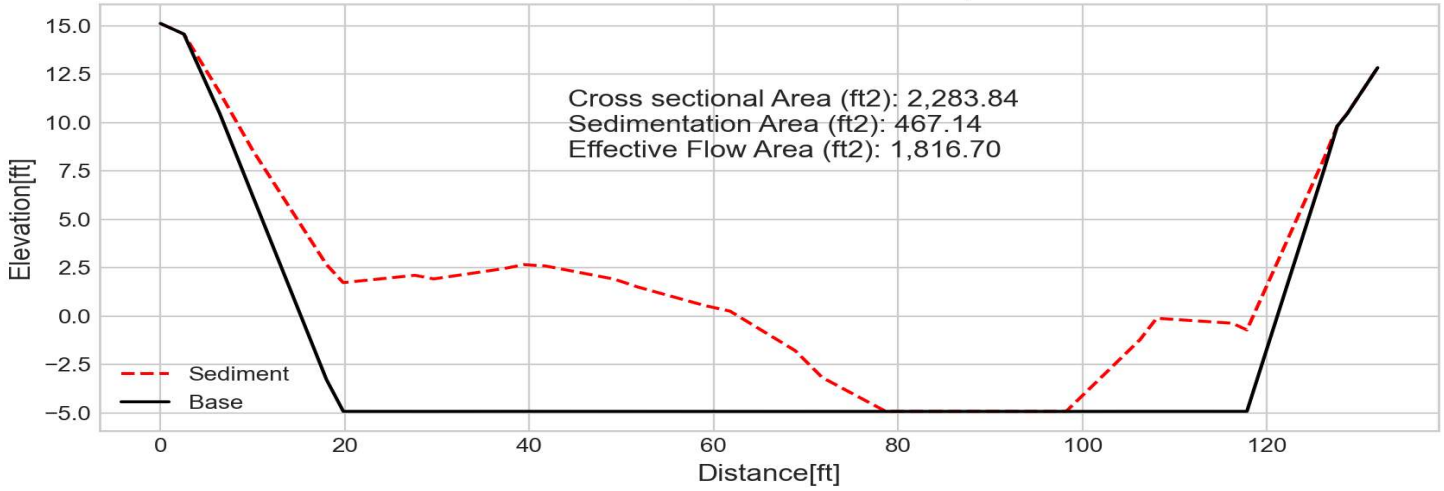
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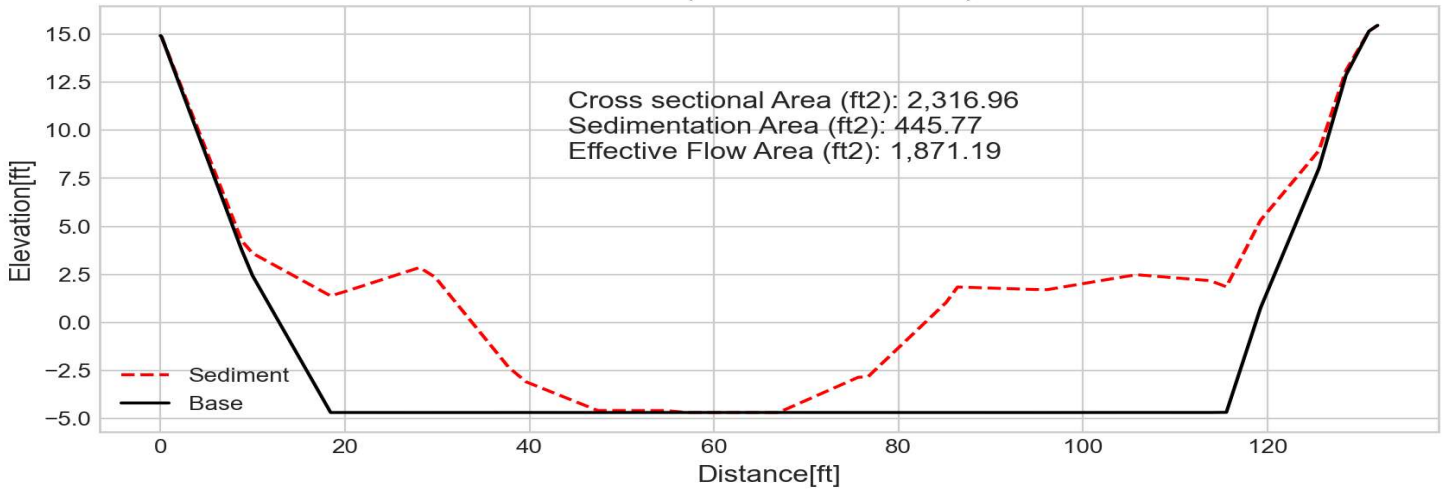
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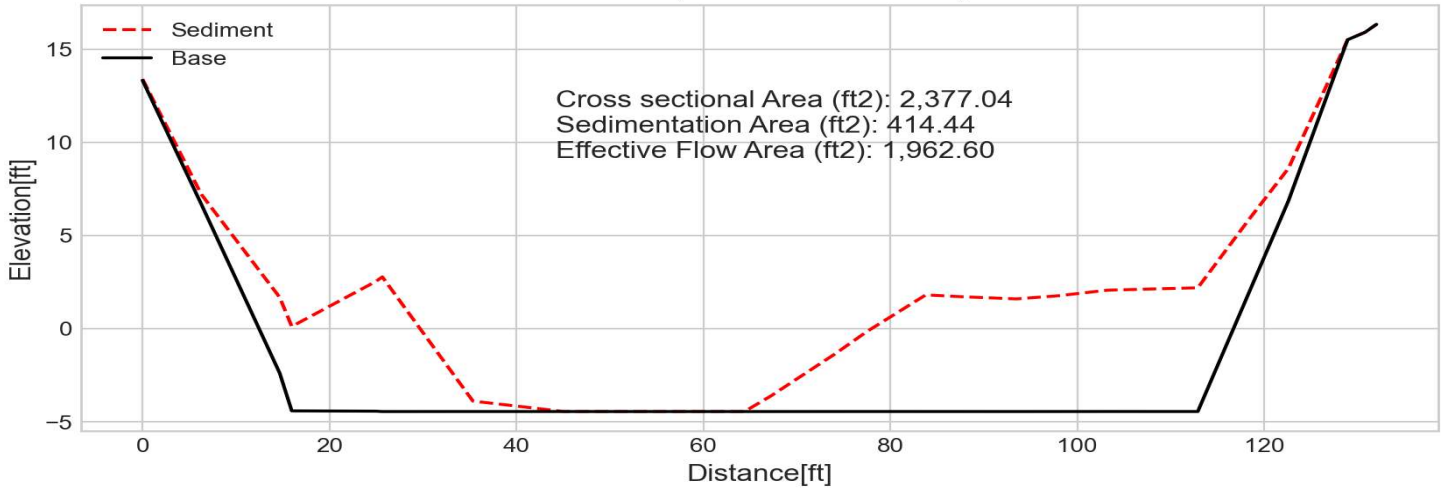
Year 6 (Station: 161+00)



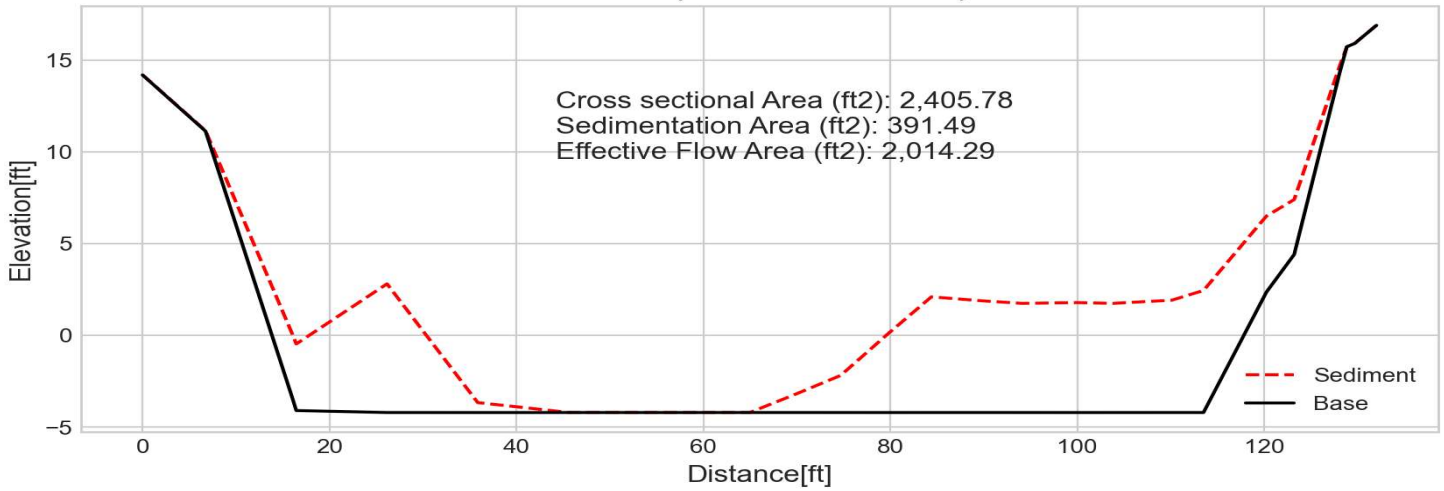
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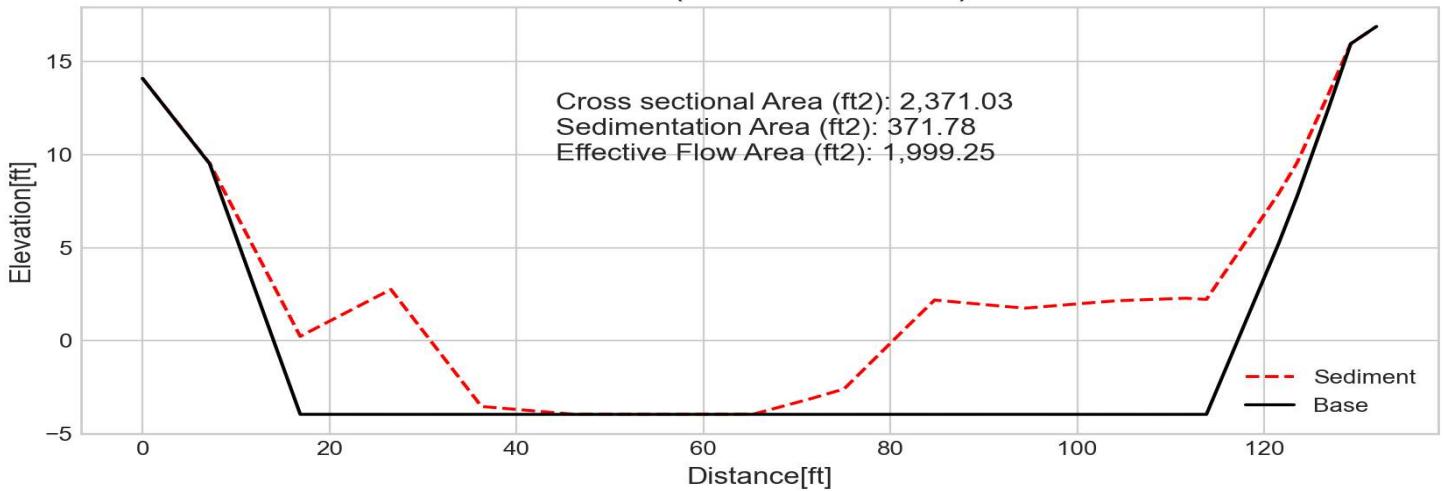
Year 6 (Station: 163+00)



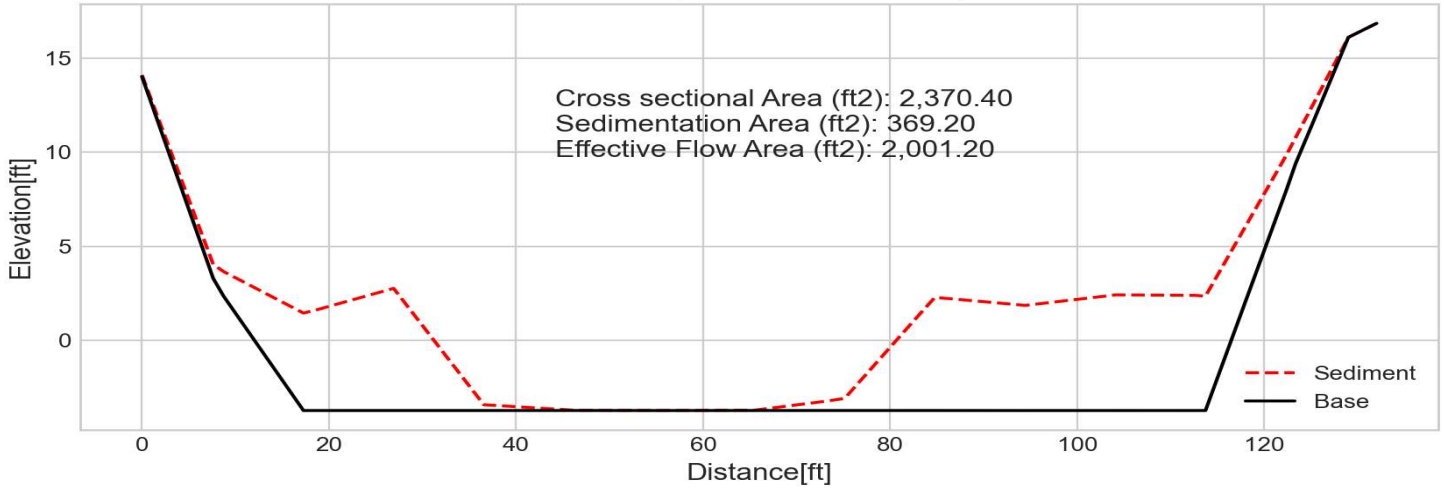
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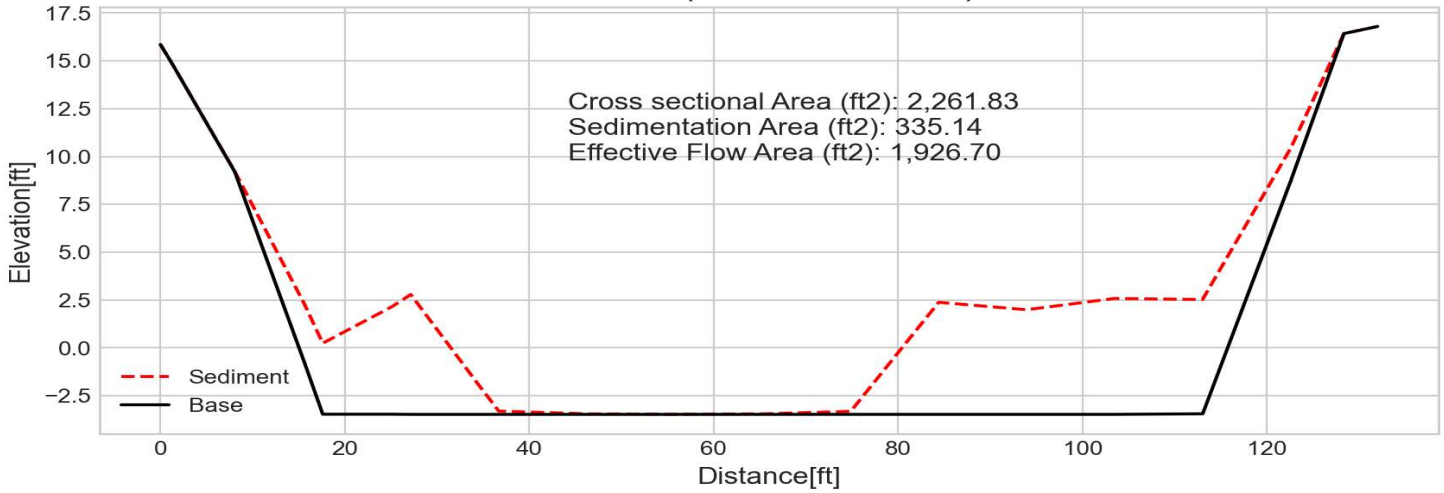
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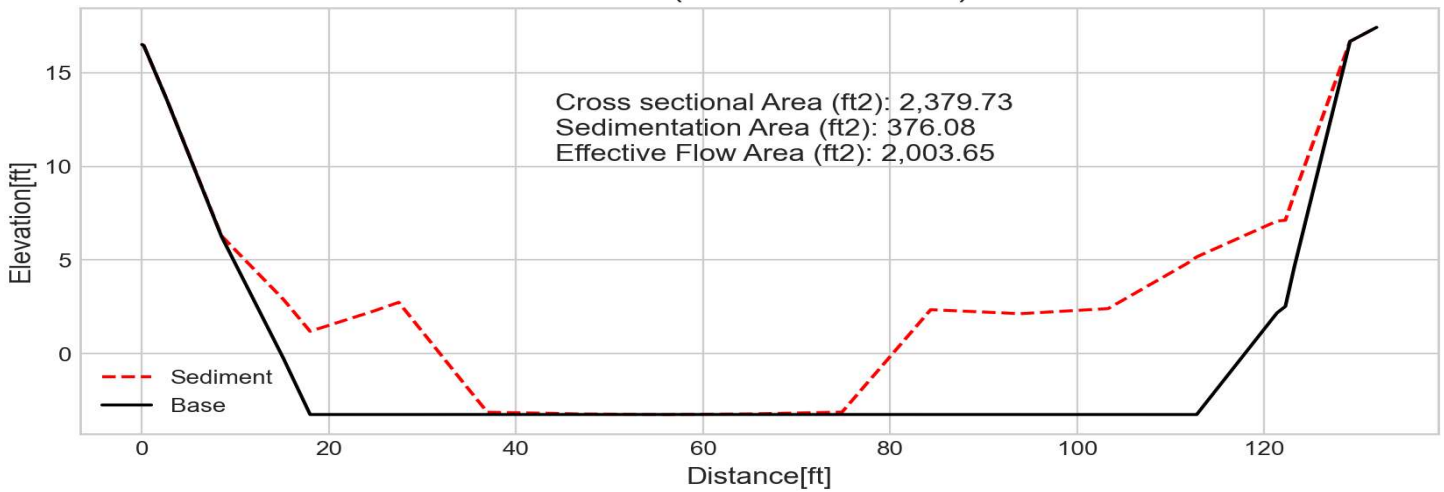
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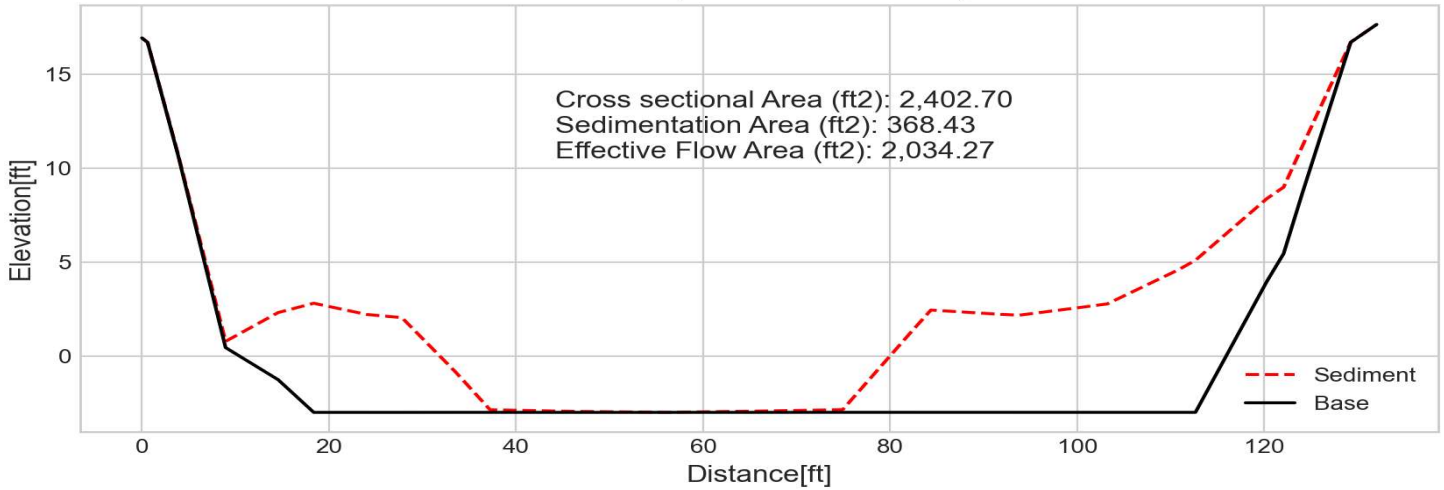
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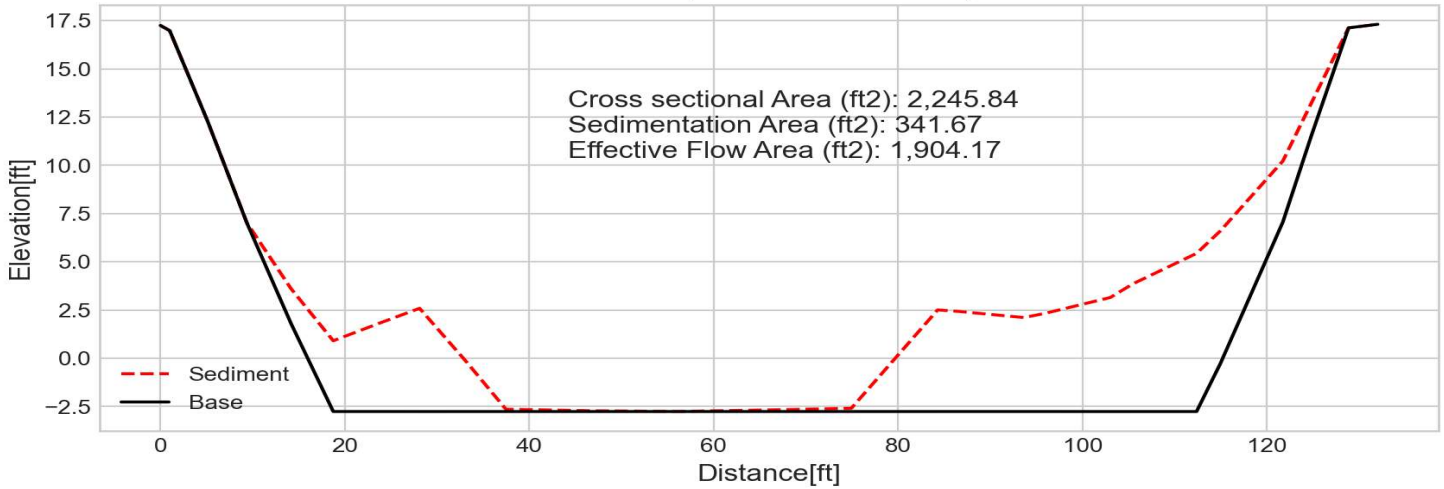
Year 6 (Station: 168+00)



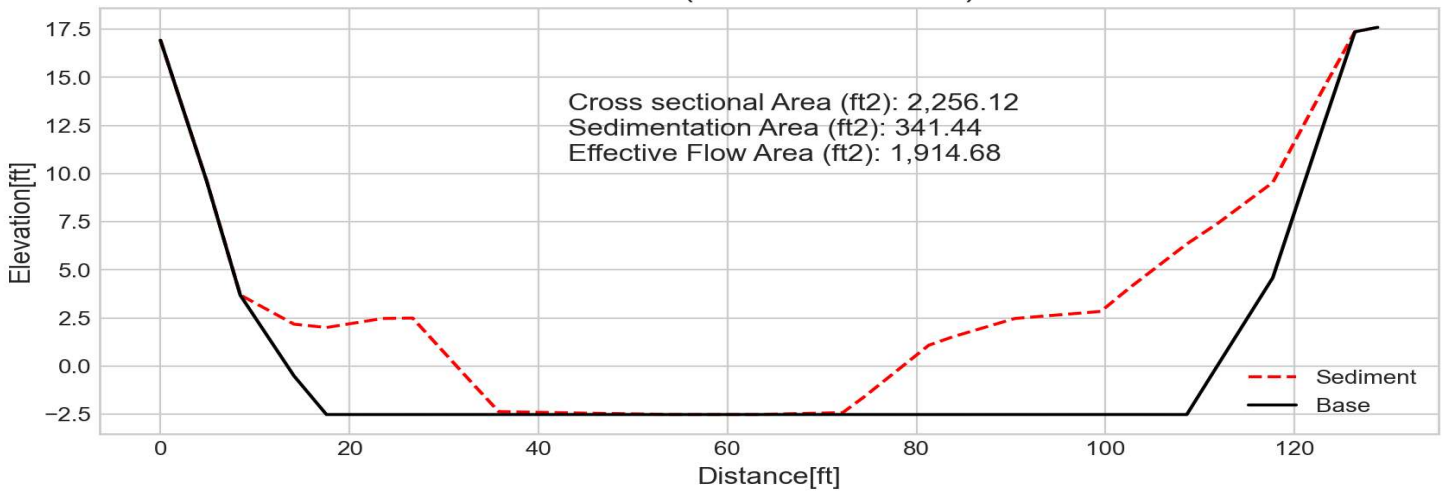
Year 6 (Station: 169+00)



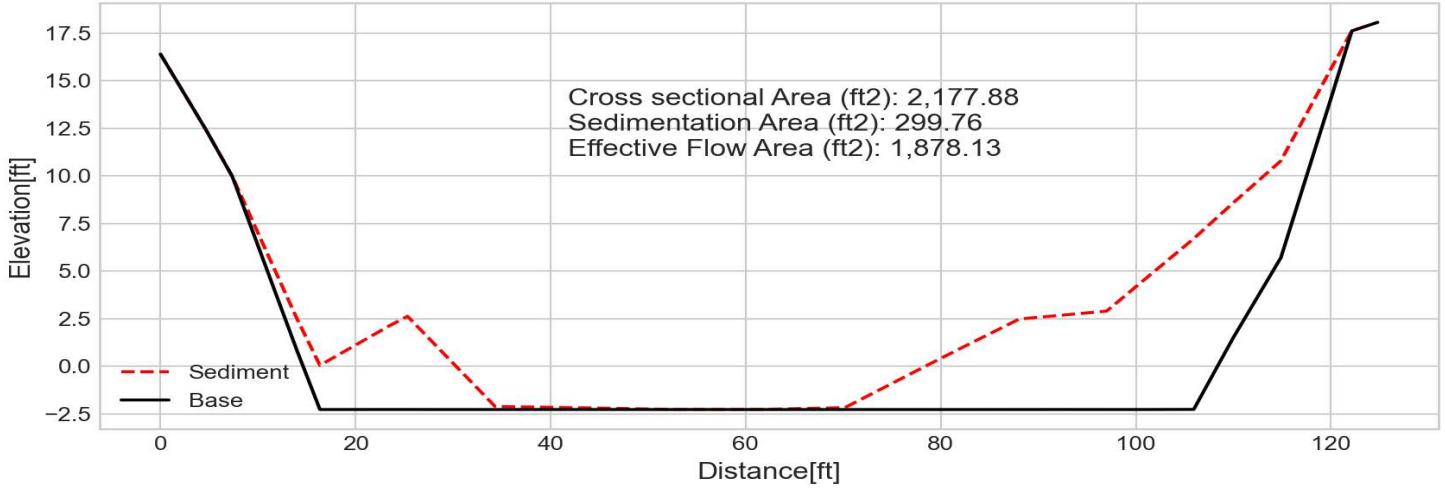
Year 6 (Station: 170+00)



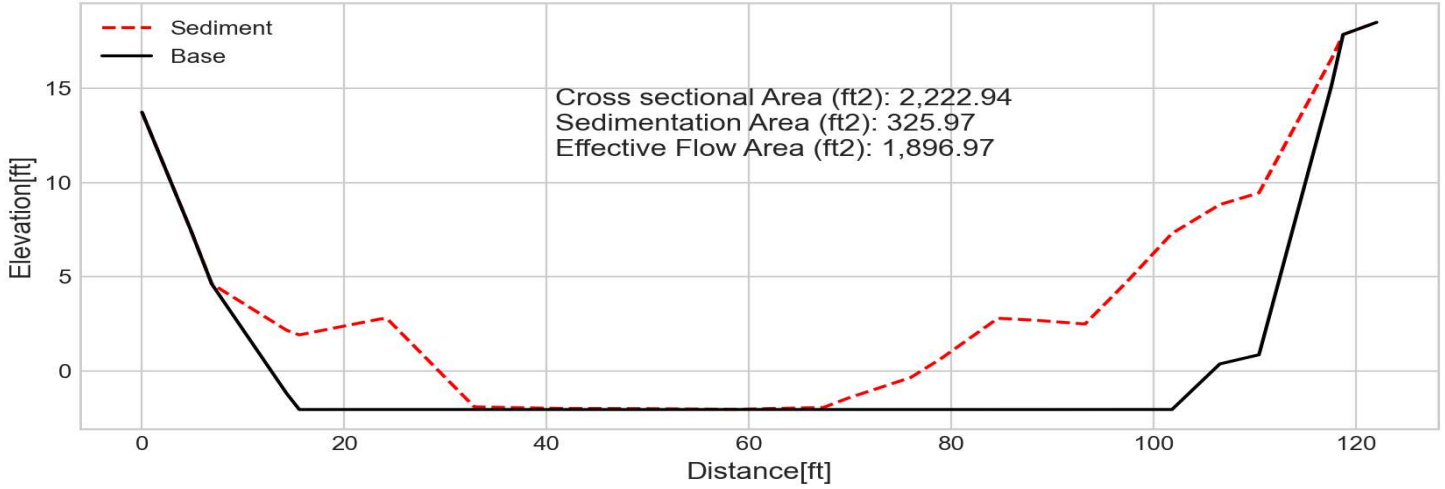
Year 6 (Station: 171+00)



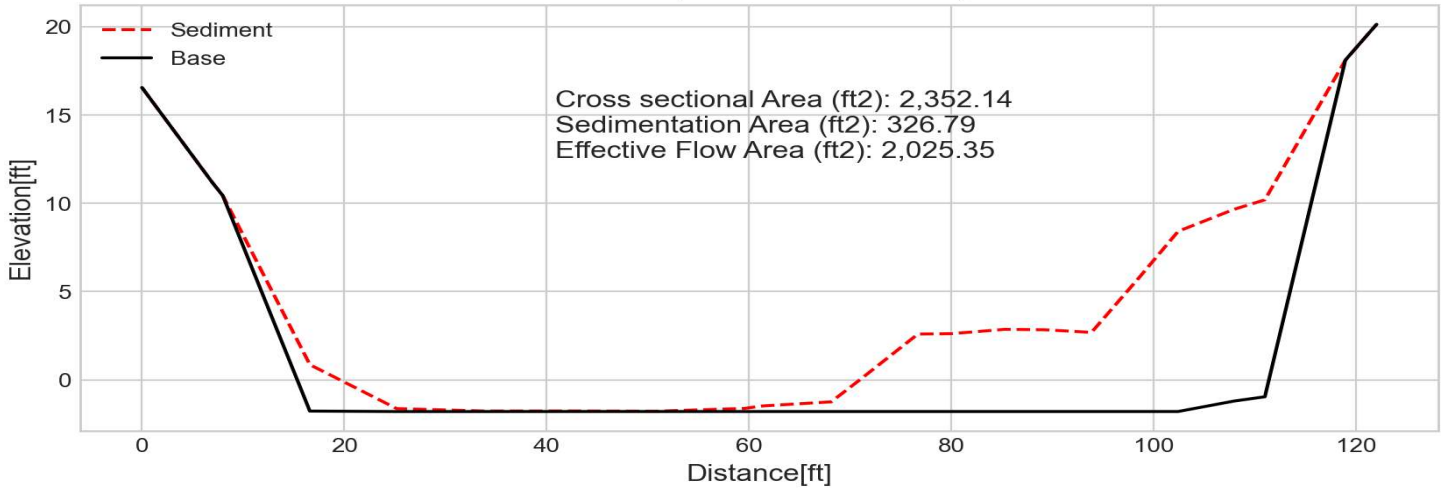
Year 6 (Station: 172+00)



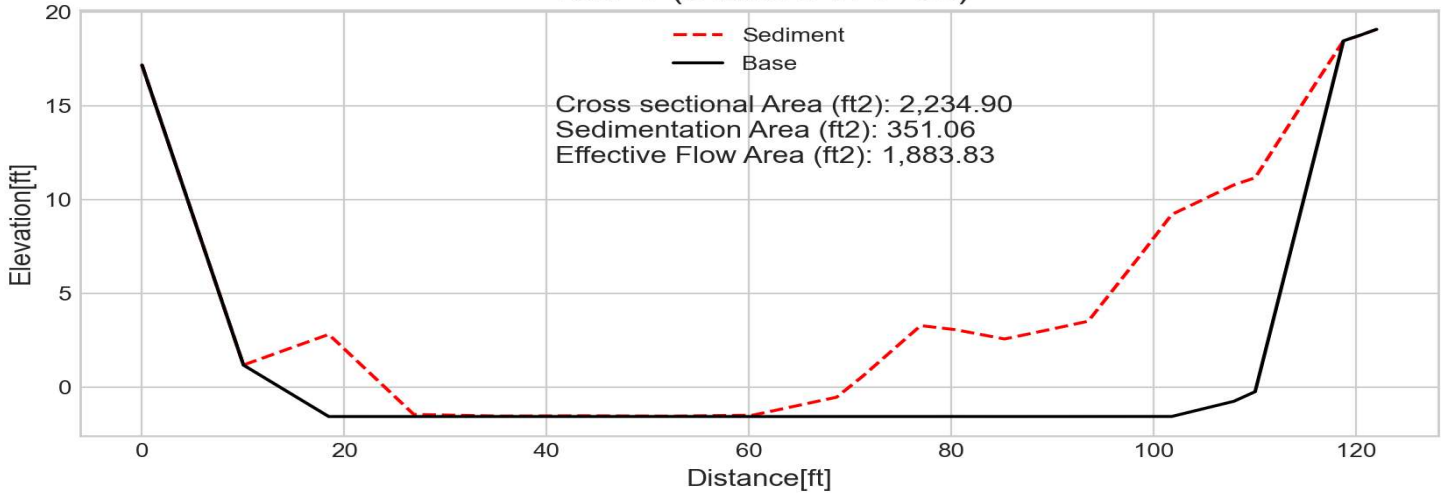
Year 6 (Station: 173+00)



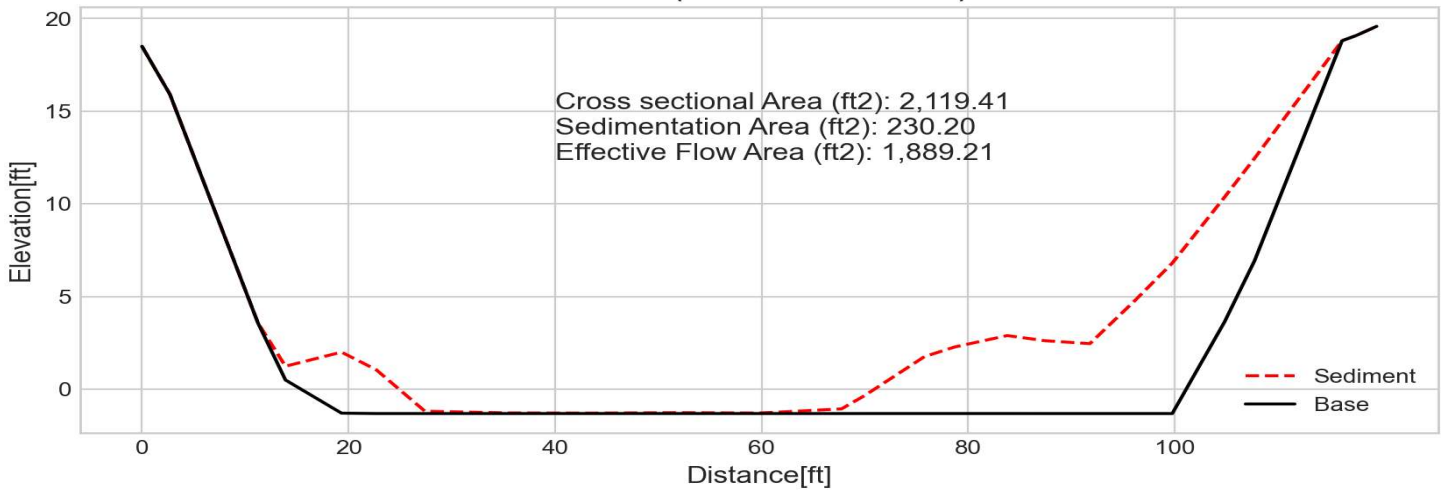
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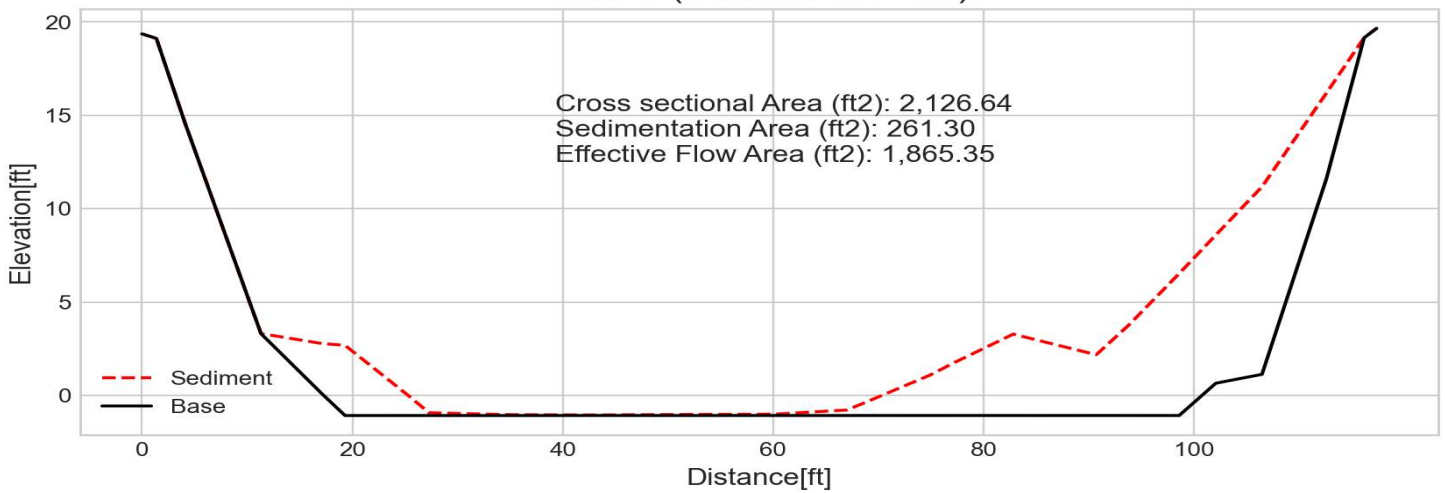
Year 6 (Station: 175+00)



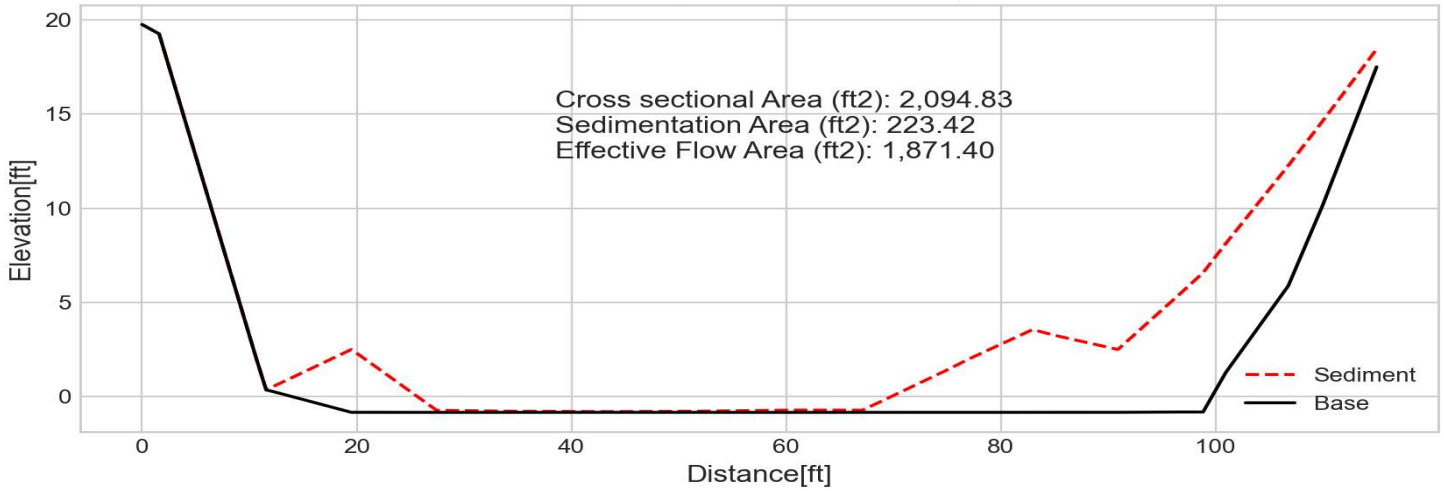
Year 6 (Station: 176+00)



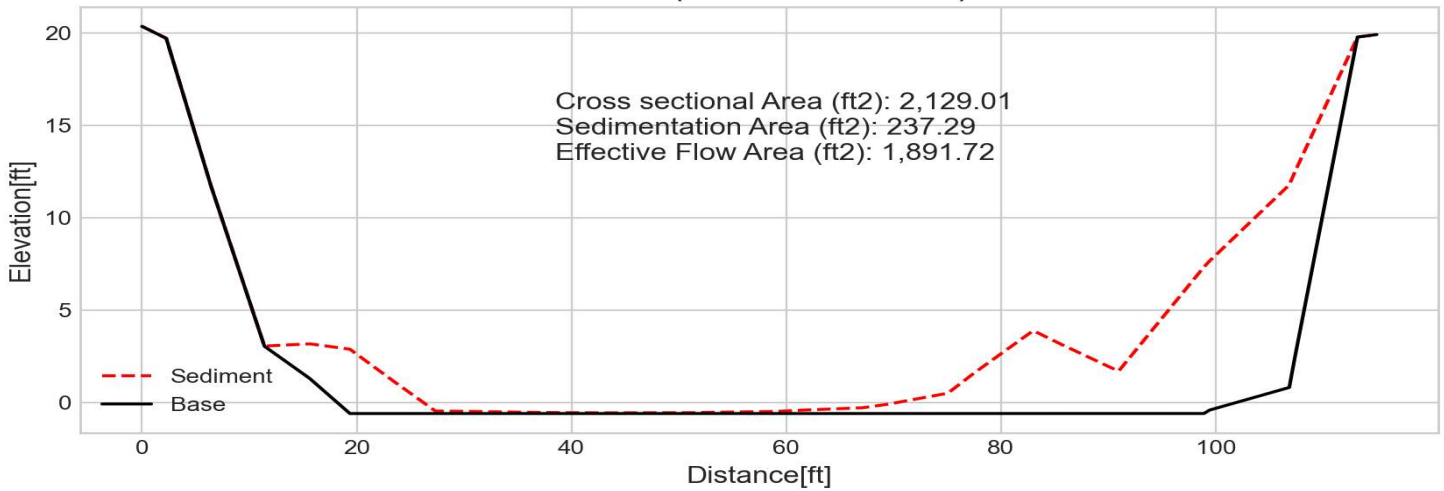
Year 6 (Station: 177+00)



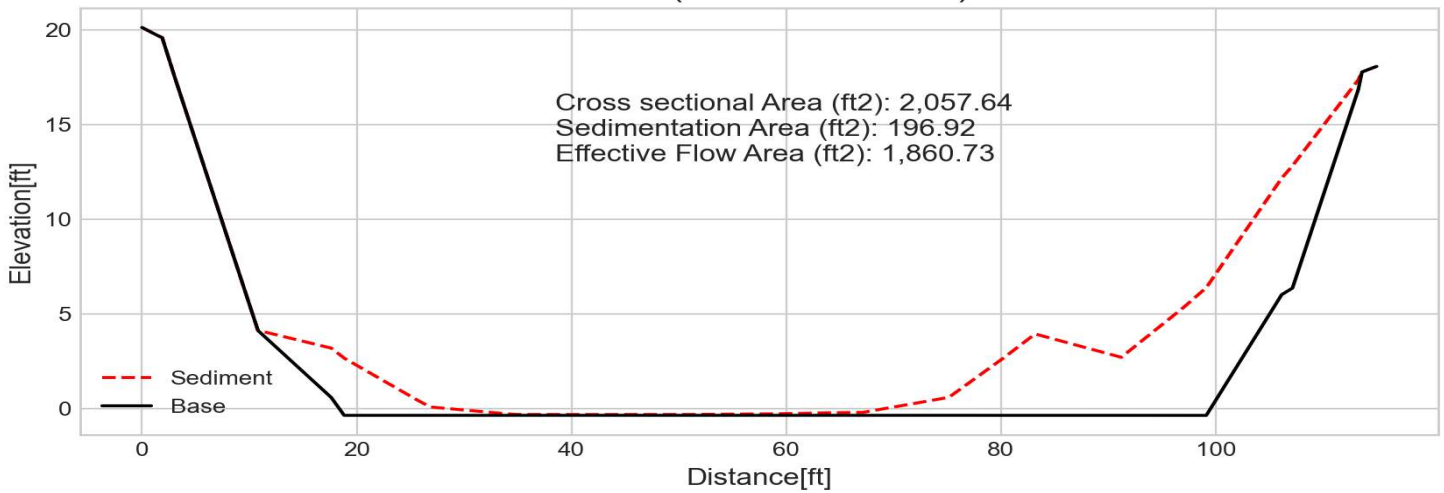
Year 6 (Station: 178+00)



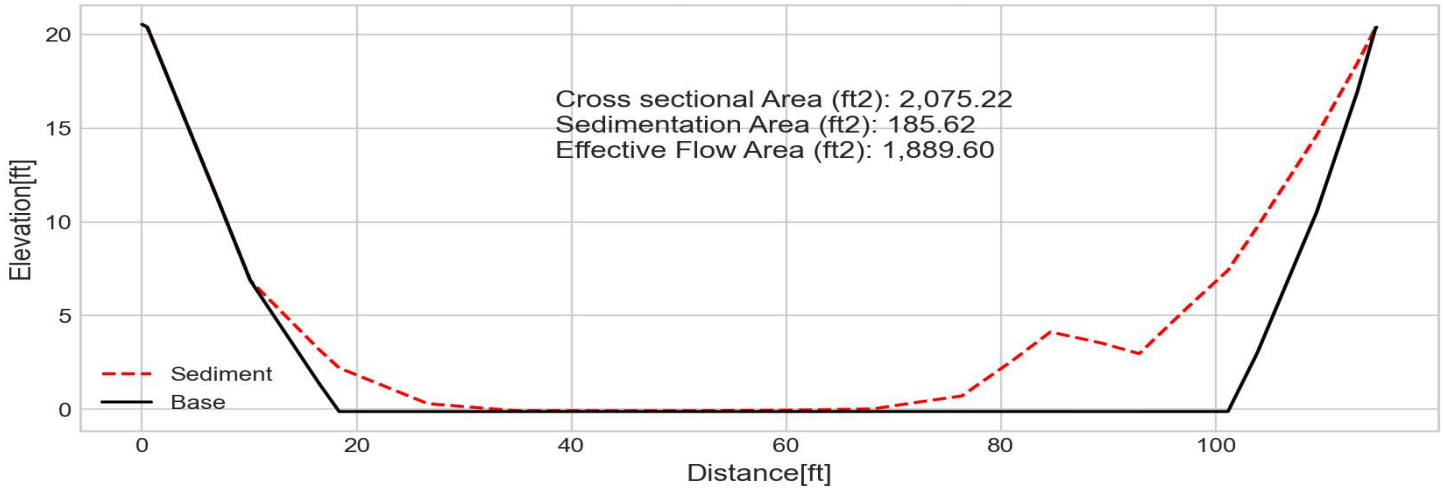
Year 6 (Station: 179+00)



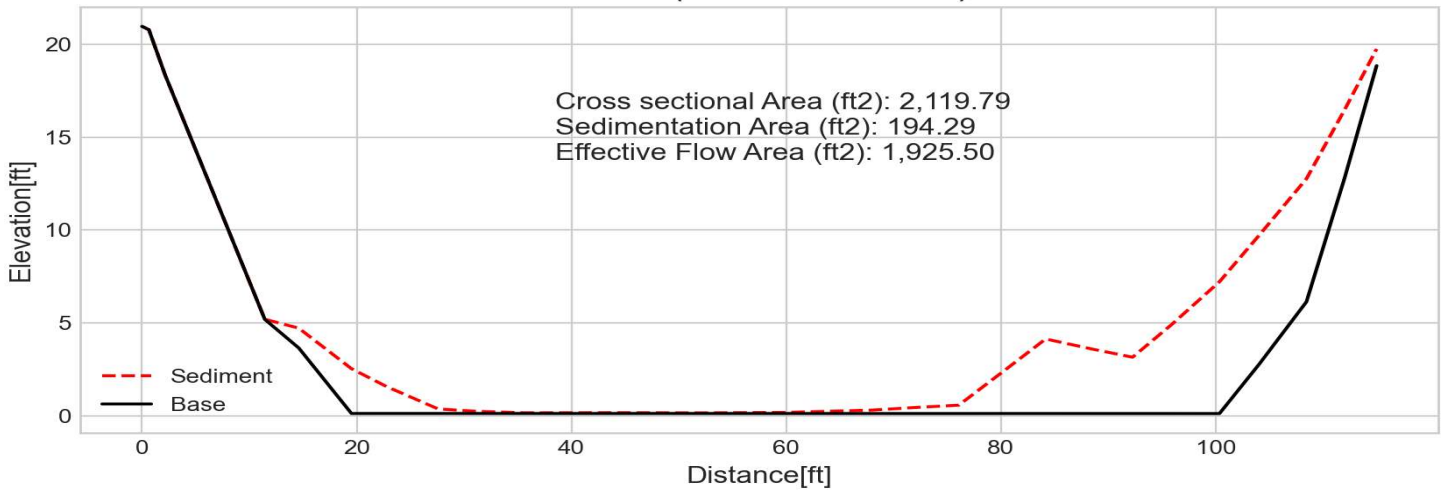
Year 6 (Station: 180+00)



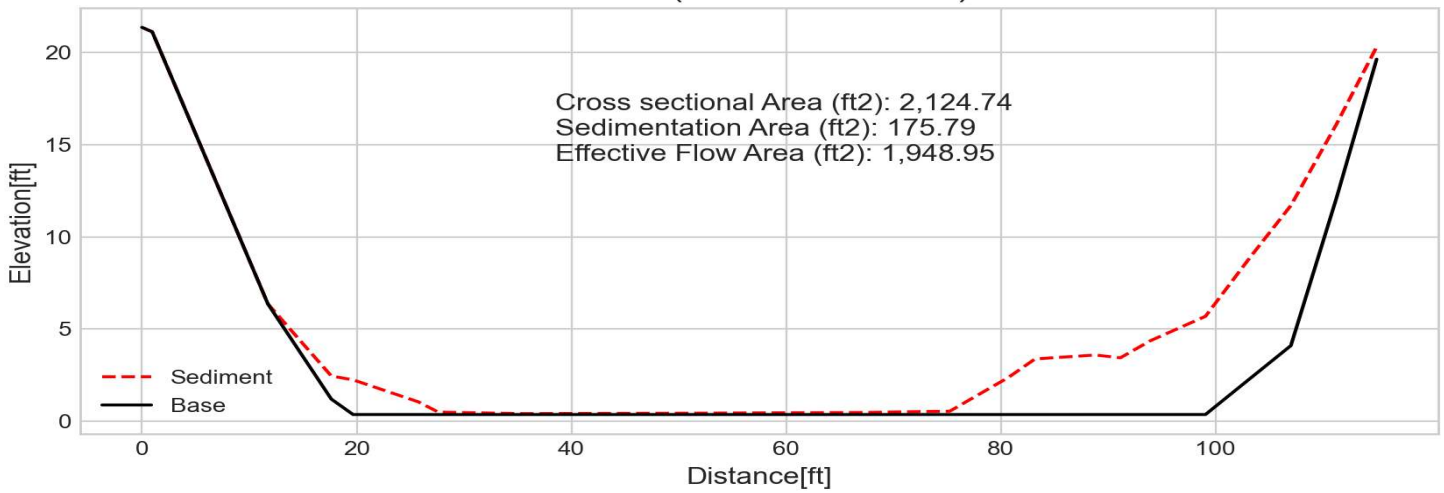
Year 6 (Station: 181+00)



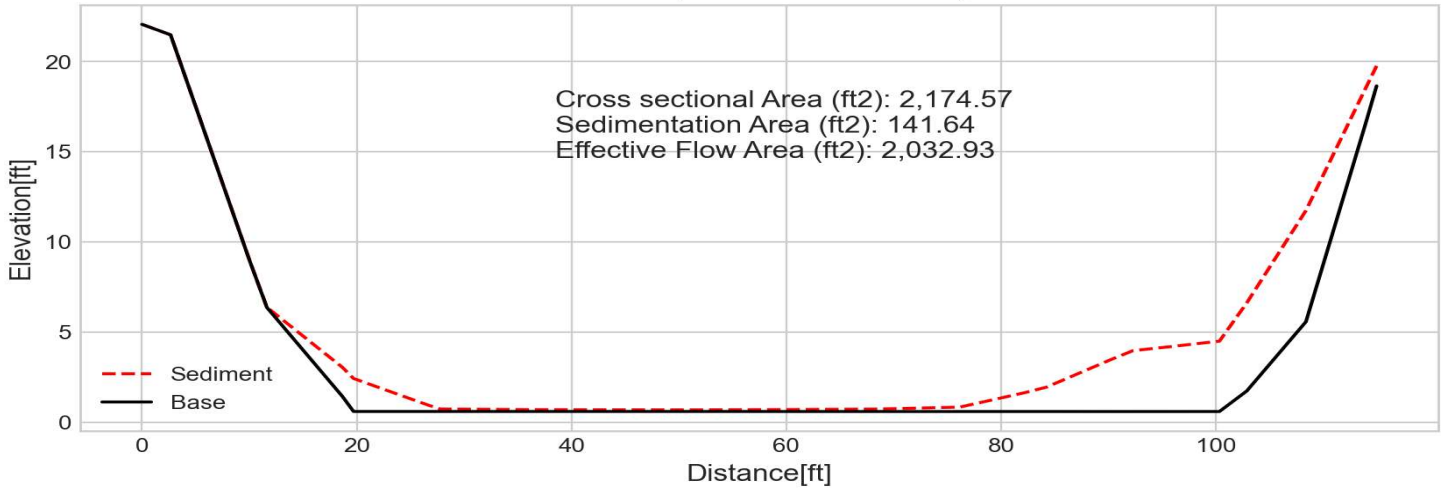
Year 6 (Station: 182+00)



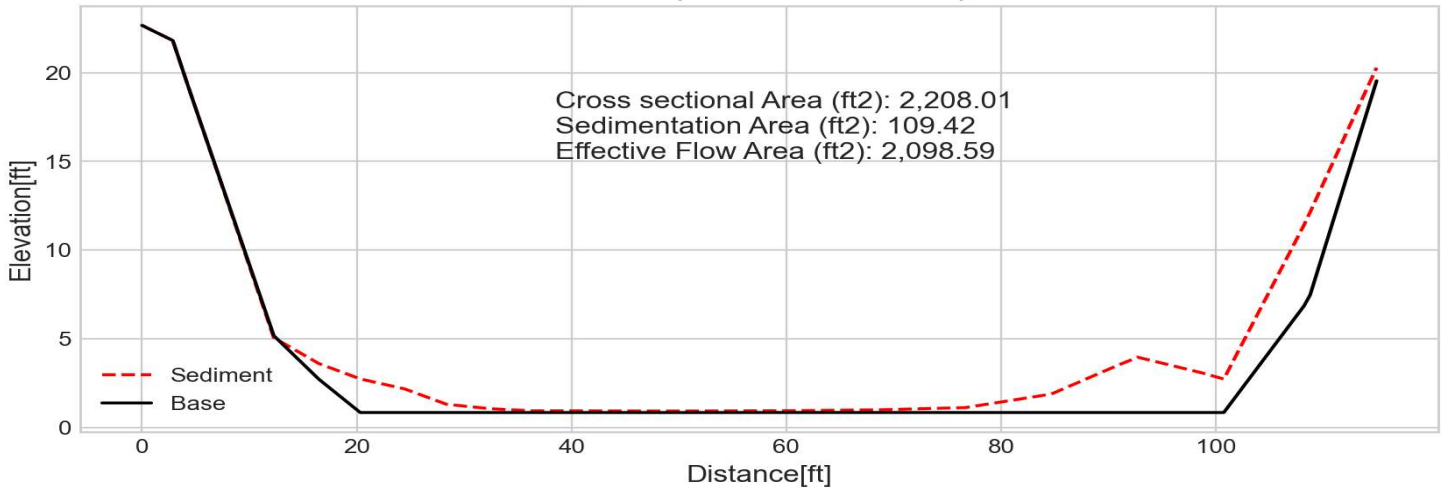
Year 6 (Station: 183+00)



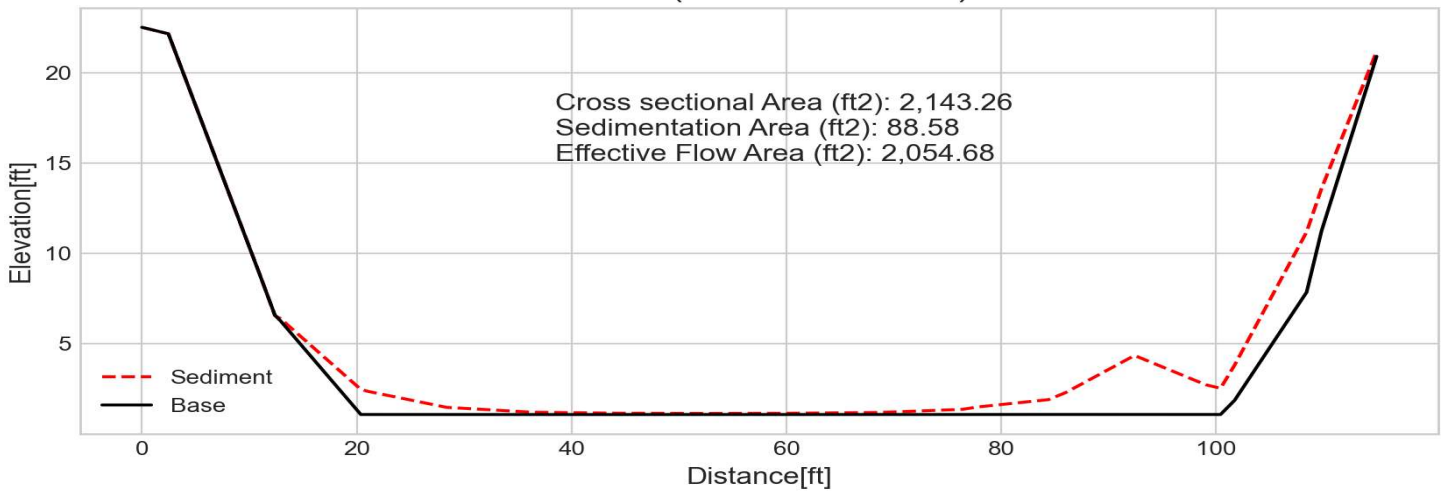
Year 6 (Station: 184+00)



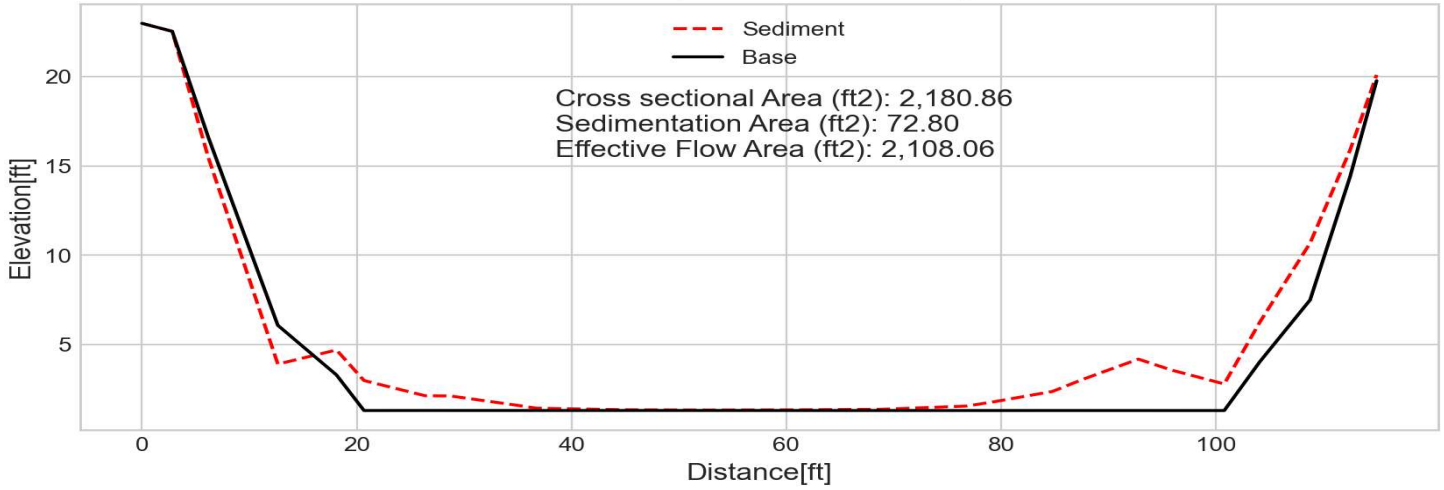
Year 6 (Station: 185+00)



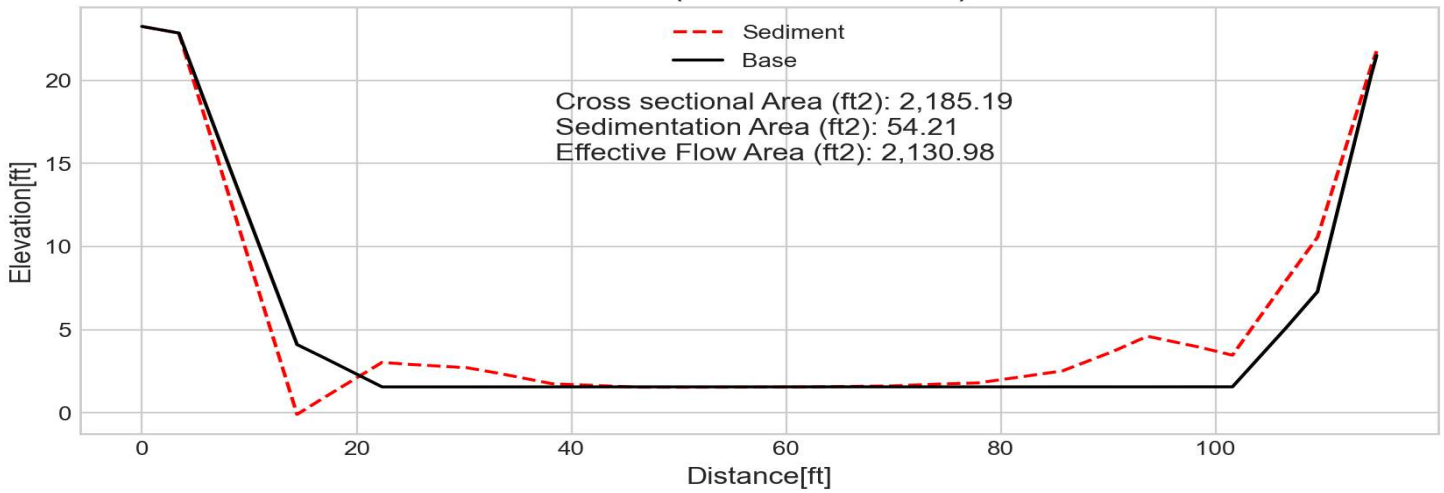
Year 6 (Station: 186+00)



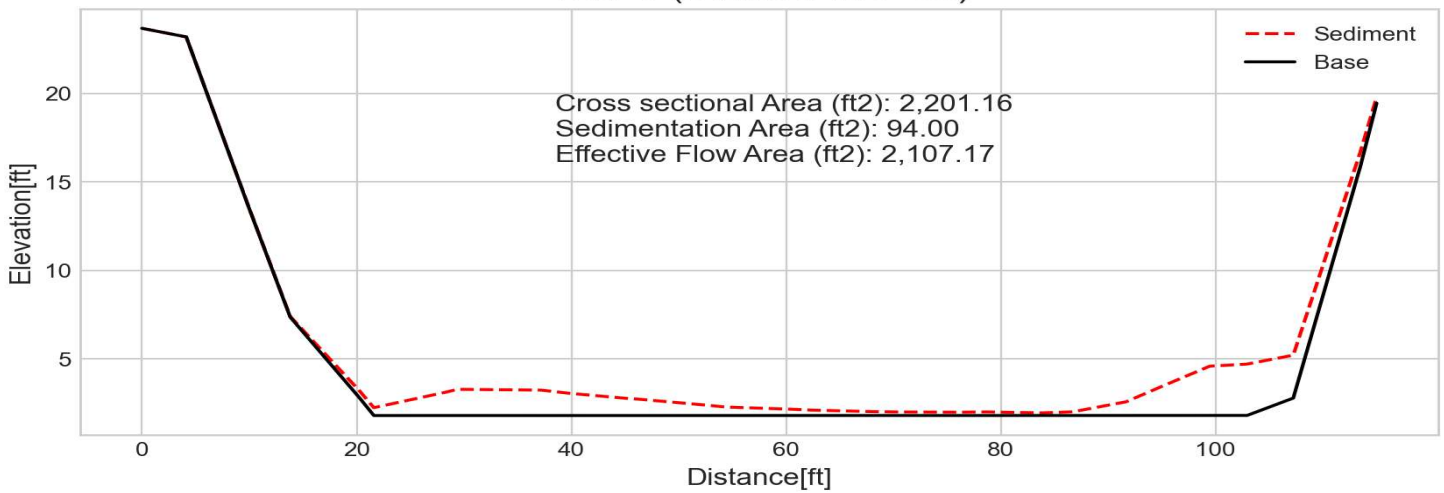
Year 6 (Station: 187+00)



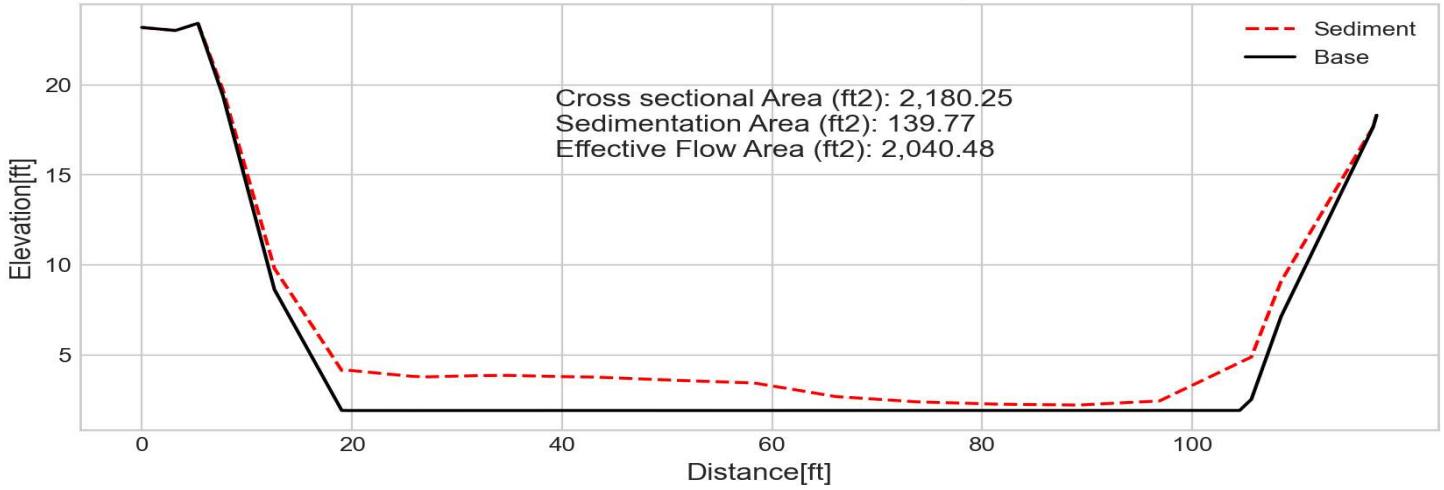
Year 6 (Station: 188+00)



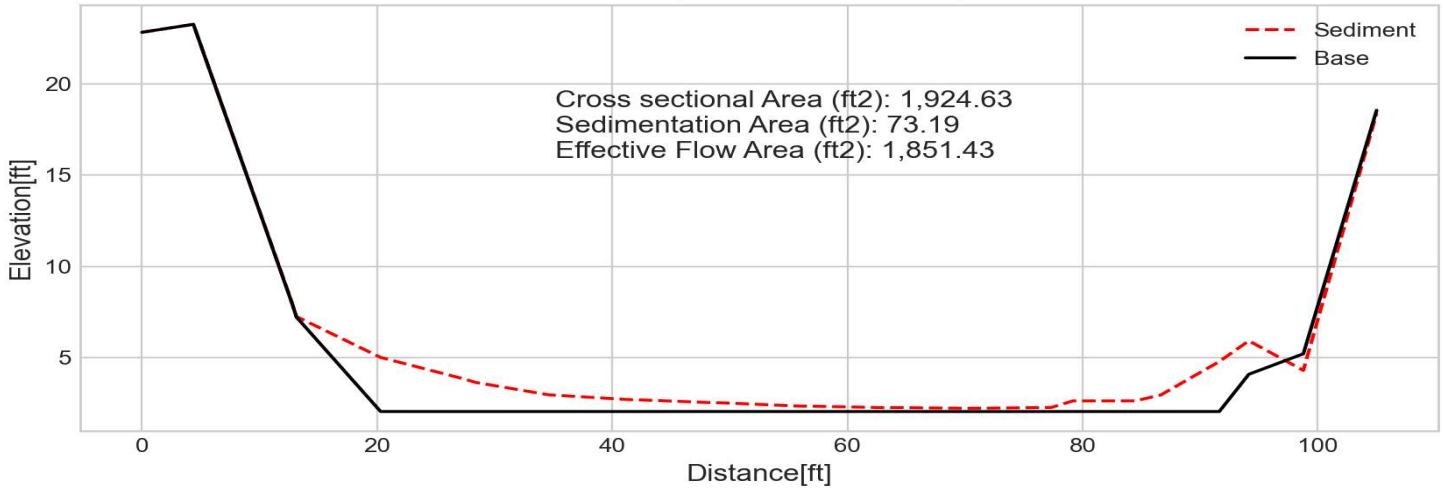
Year 6 (Station: 189+00)



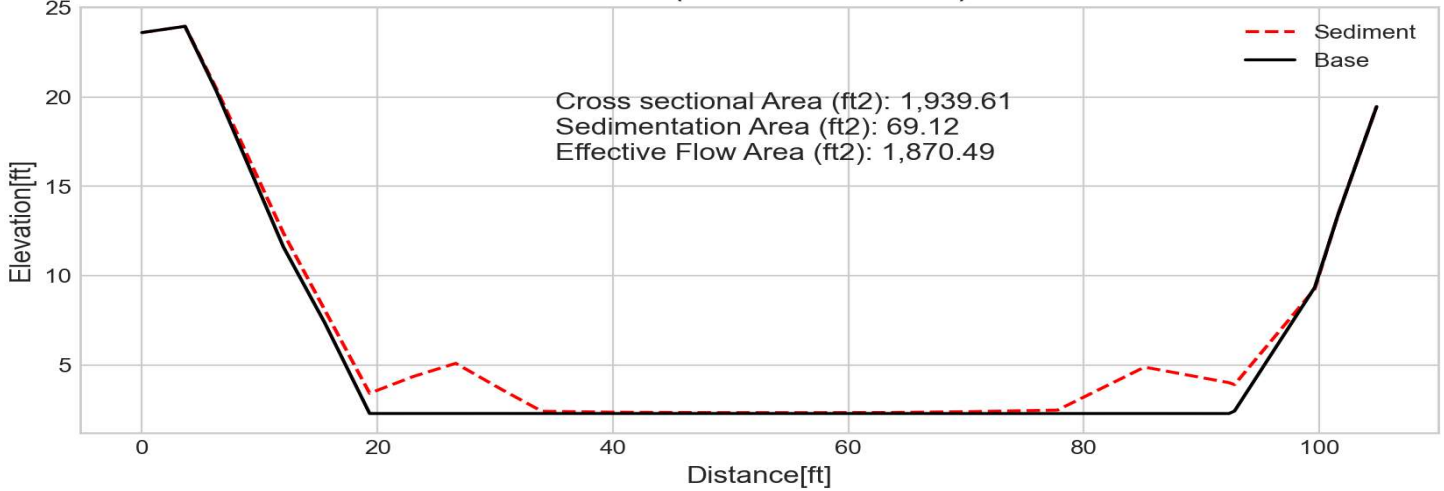
Year 6 (Station: 189+49)



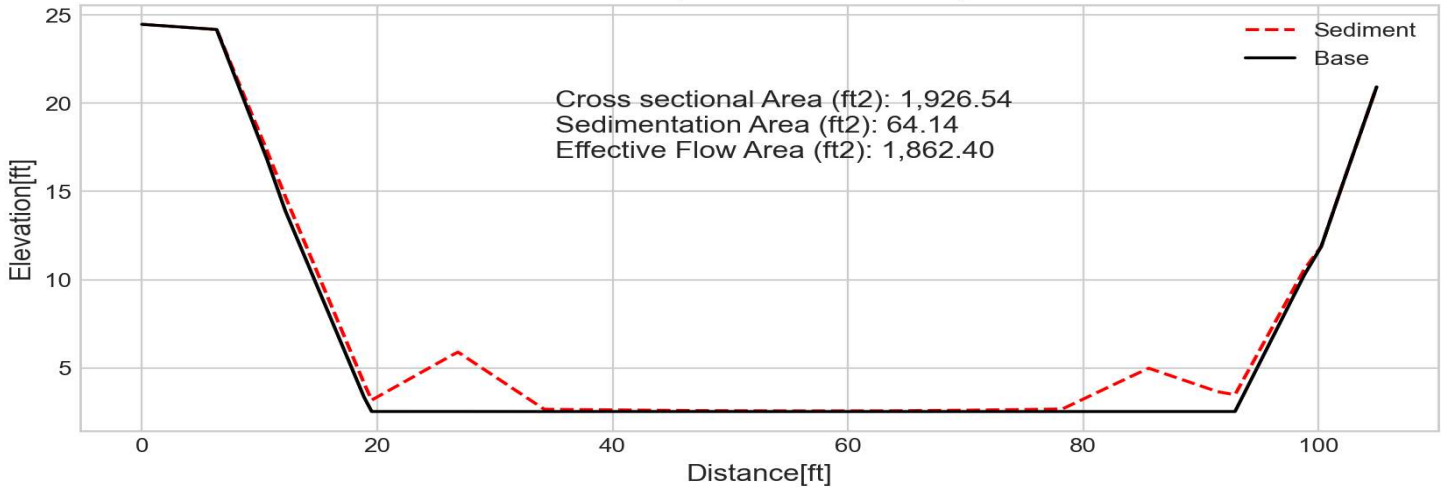
Year 6 (Station: 190+00)



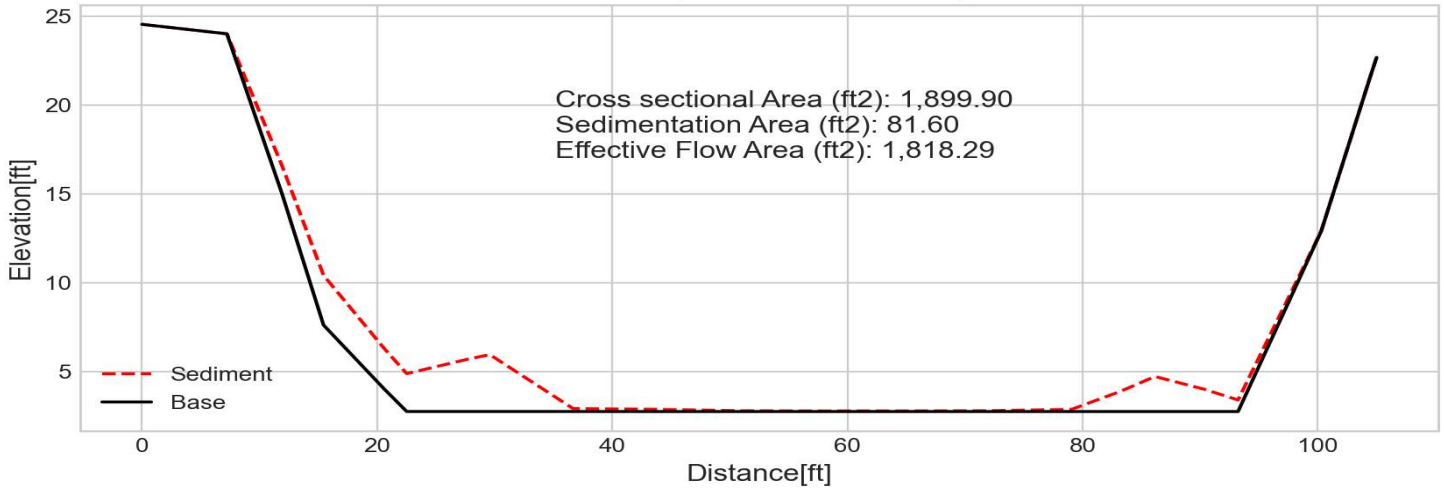
Year 6 (Station: 191+00)



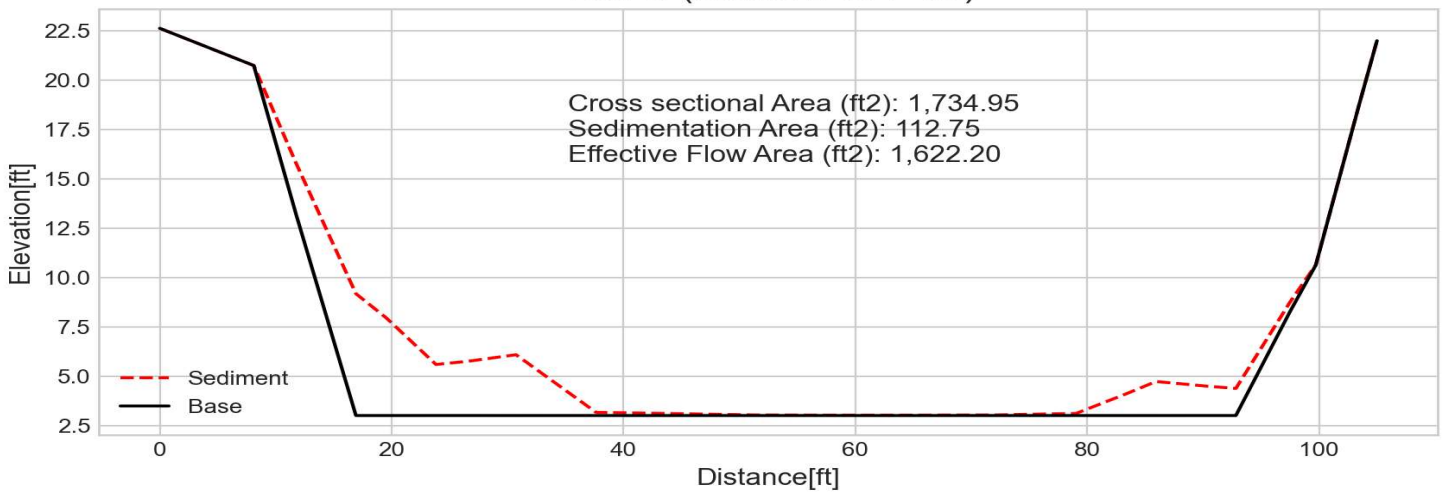
Year 6 (Station: 192+00)



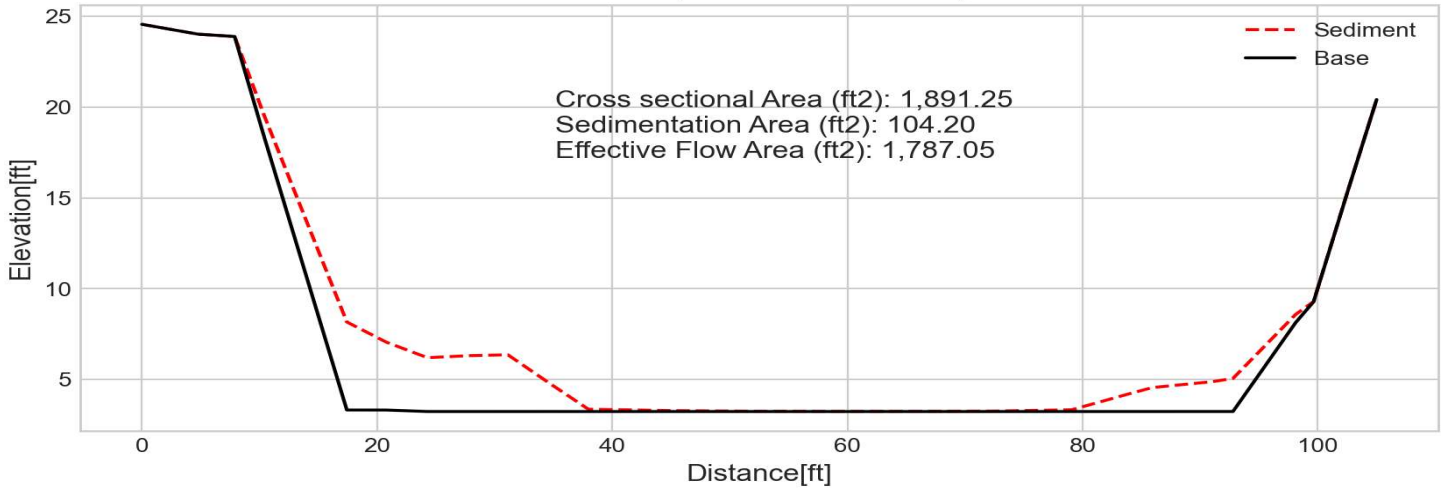
Year 6 (Station: 193+00)



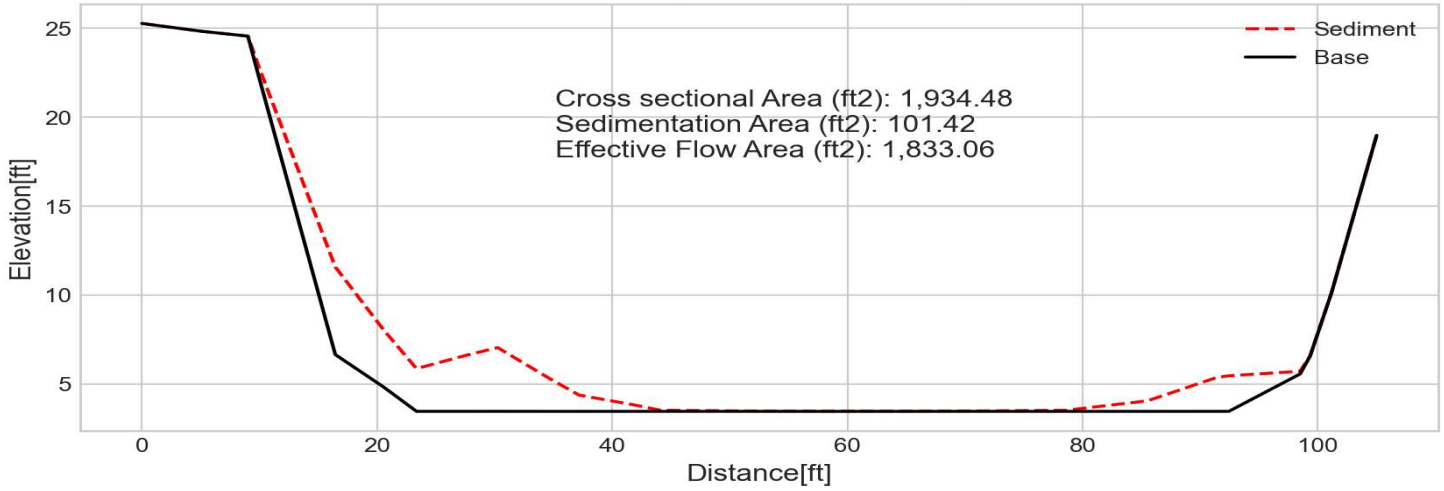
Year 6 (Station: 194+00)



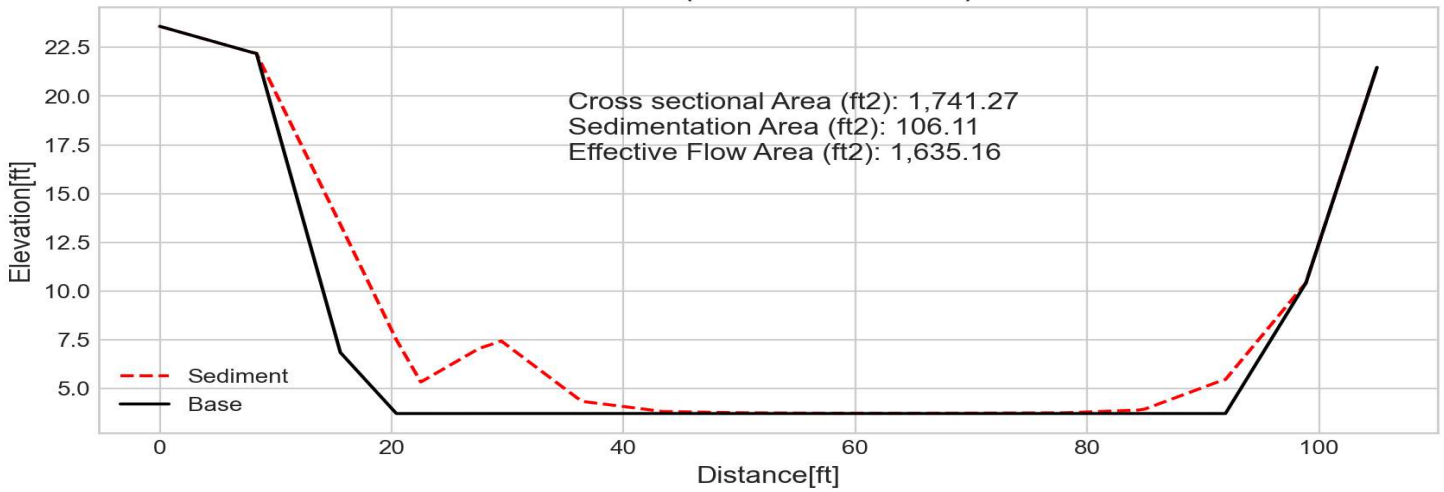
Year 6 (Station: 195+00)



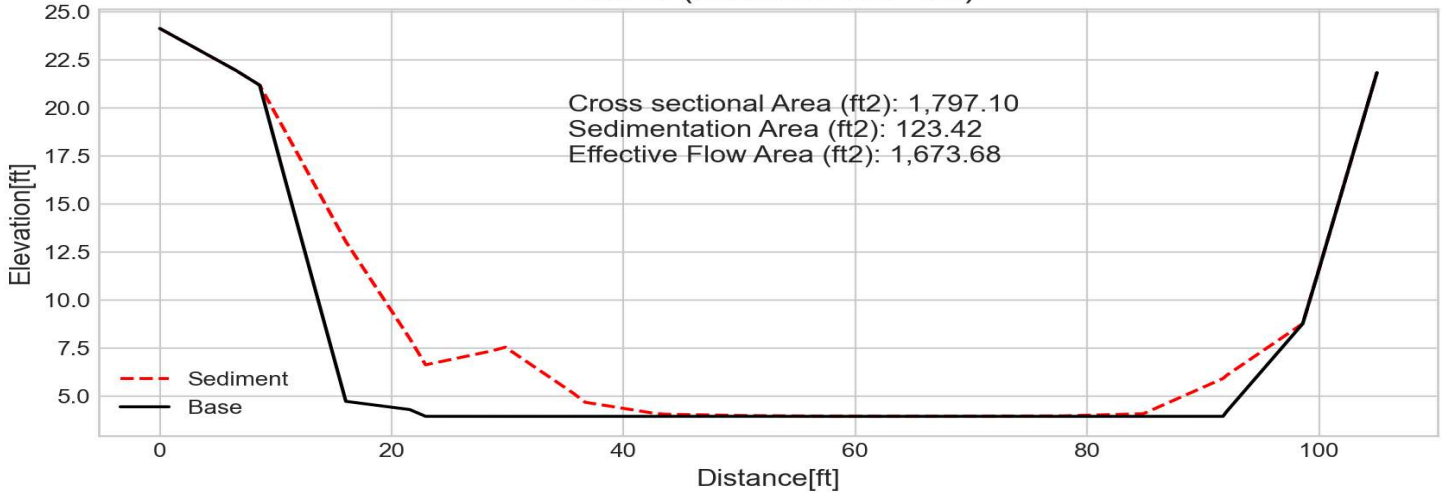
Year 6 (Station: 196+00)



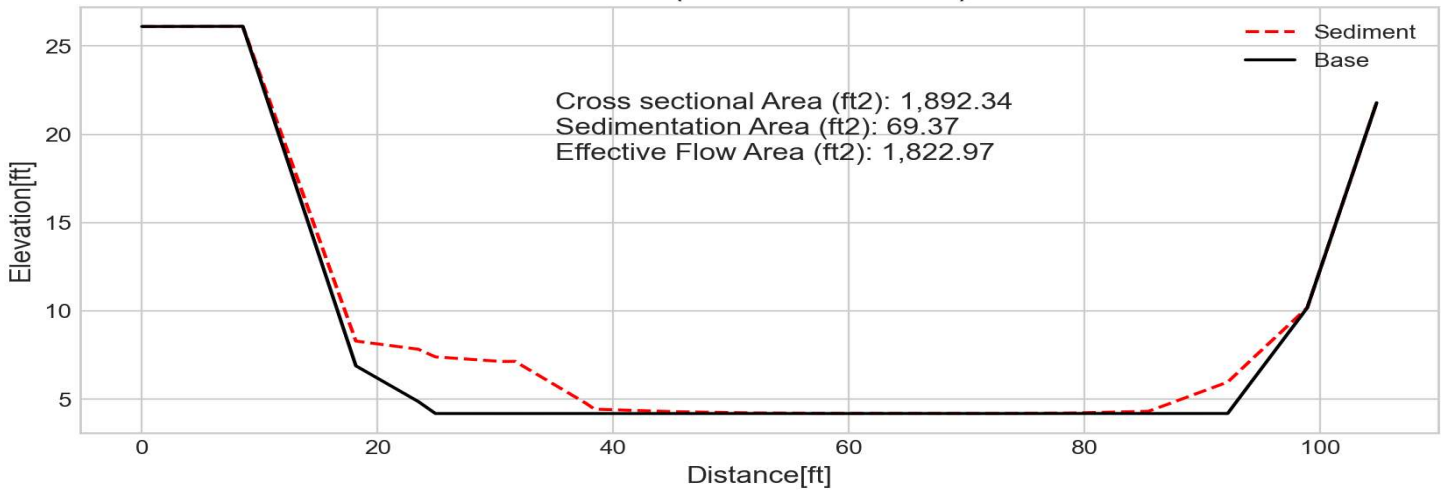
Year 6 (Station: 197+00)



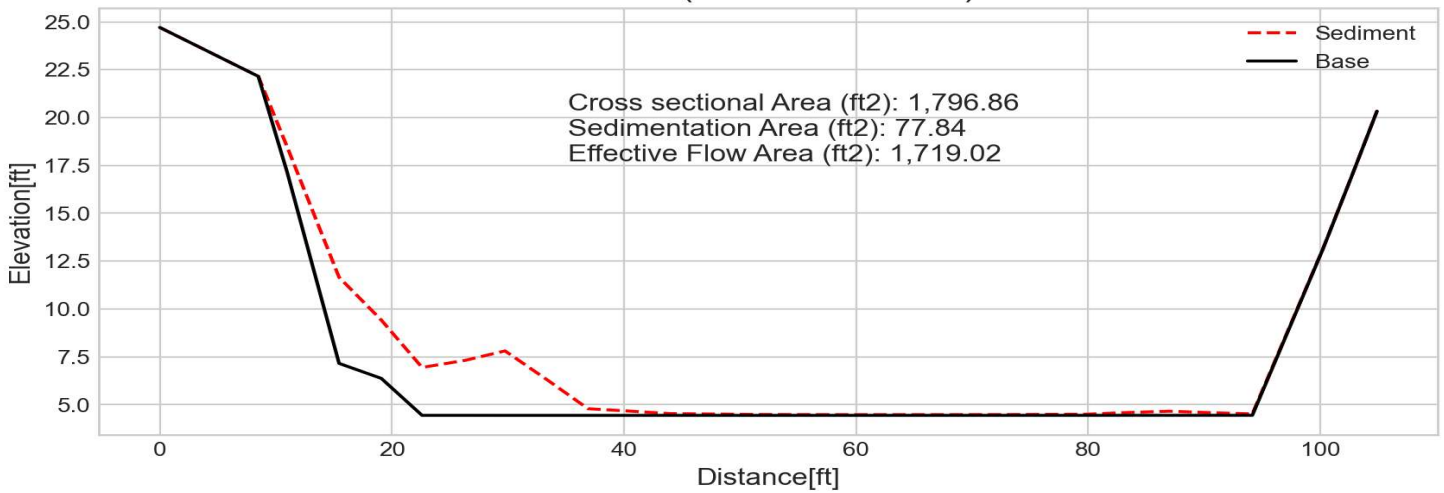
Year 6 (Station: 198+00)



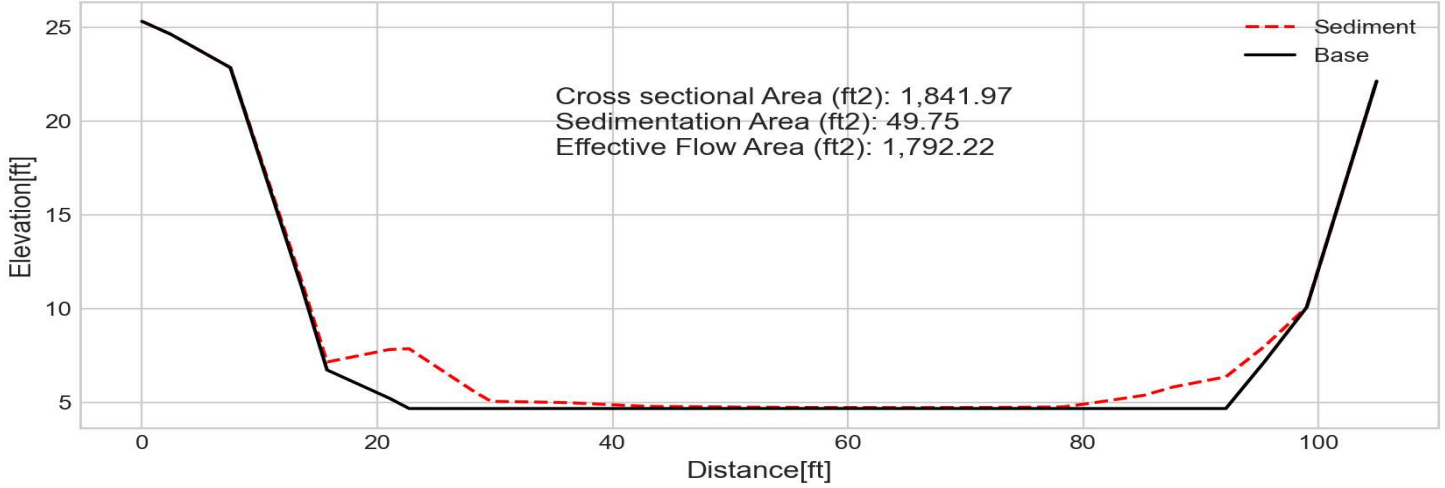
Year 6 (Station: 199+00)



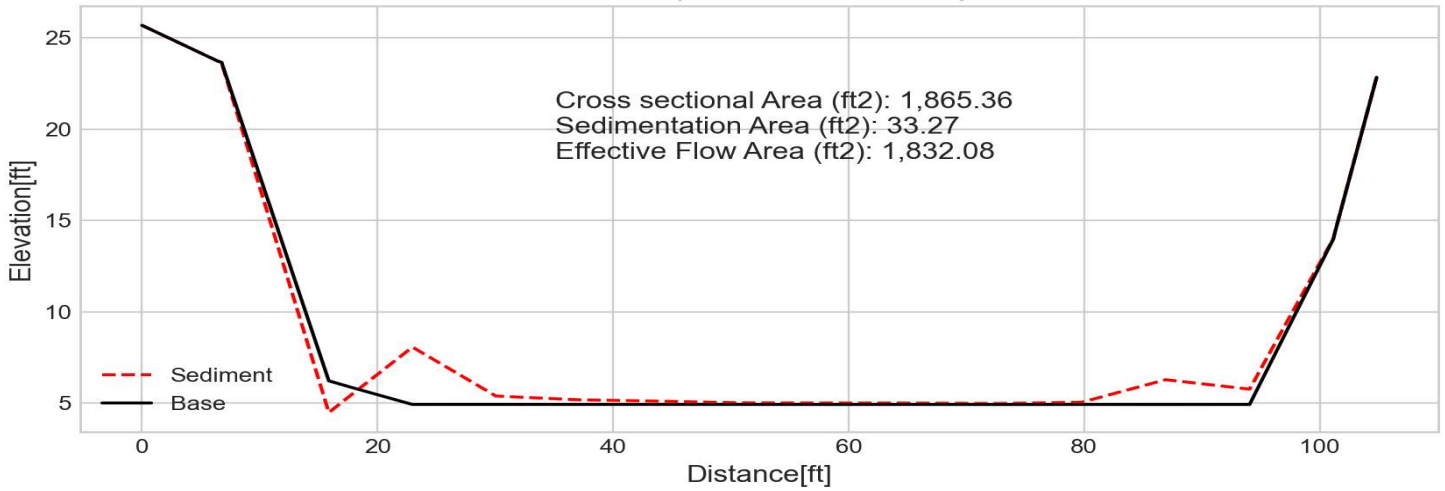
Year 6 (Station: 200+00)



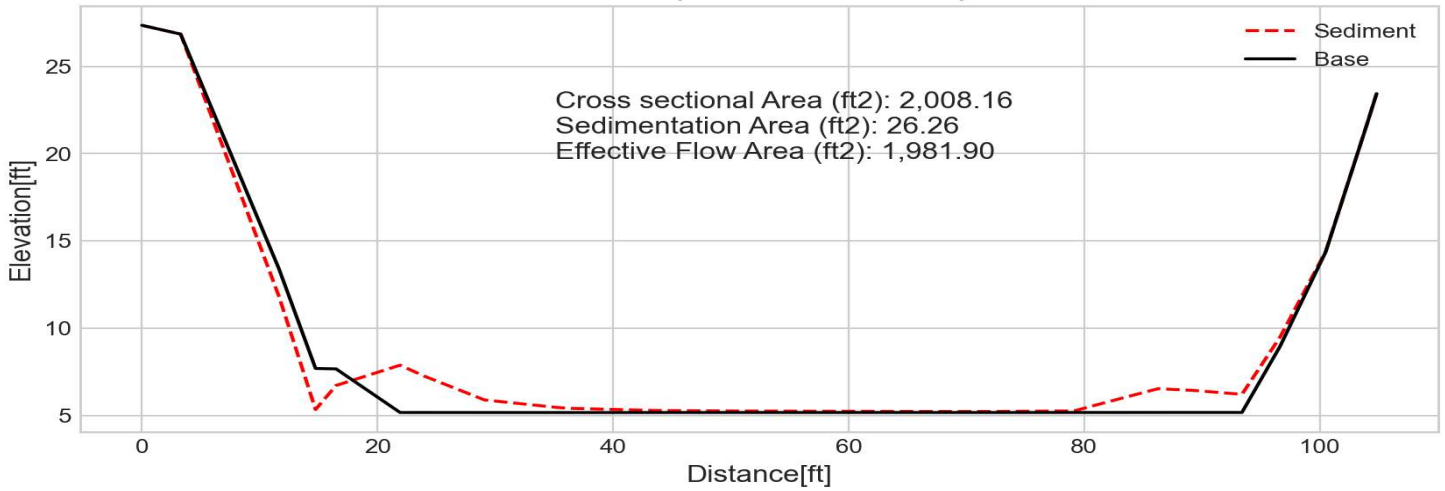
Year 6 (Station: 201+00)



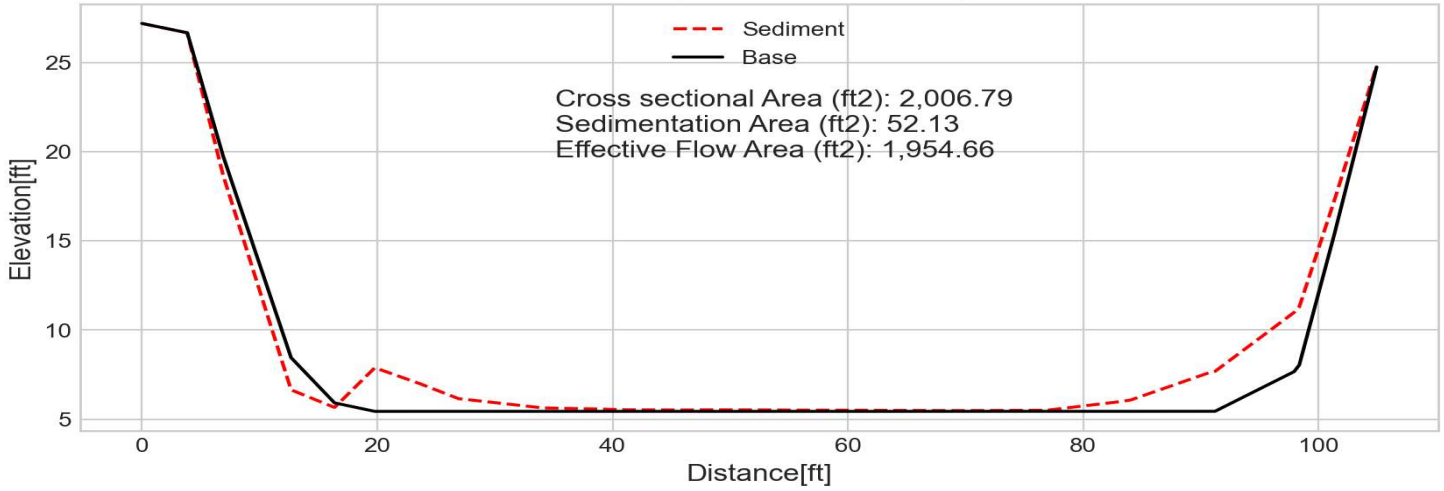
Year 6 (Station: 202+00)



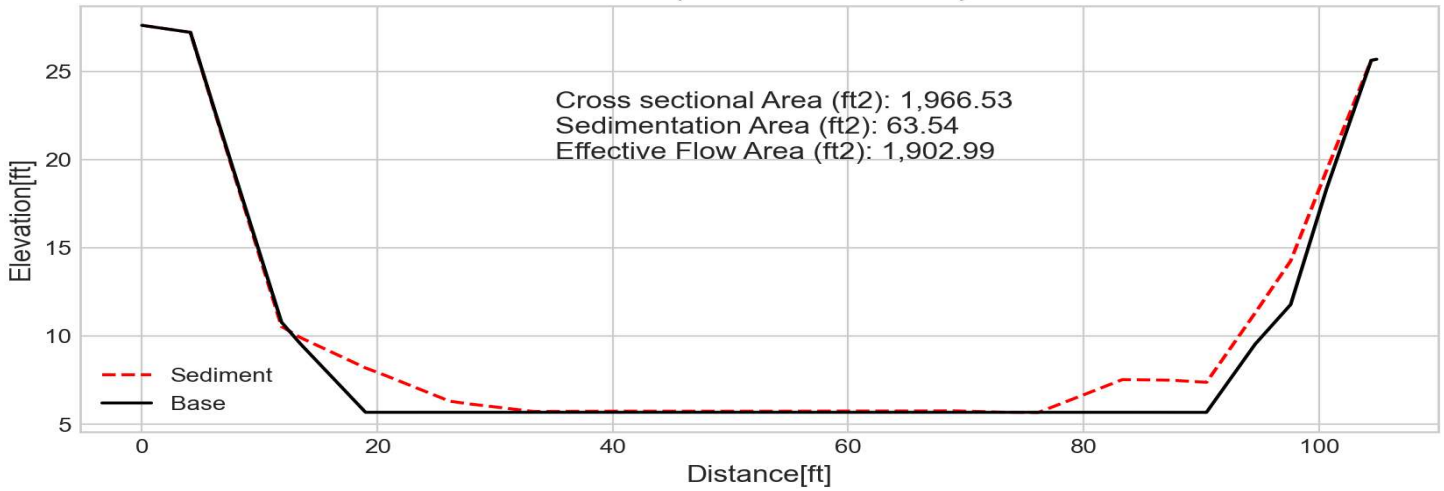
Year 6 (Station: 203+00)



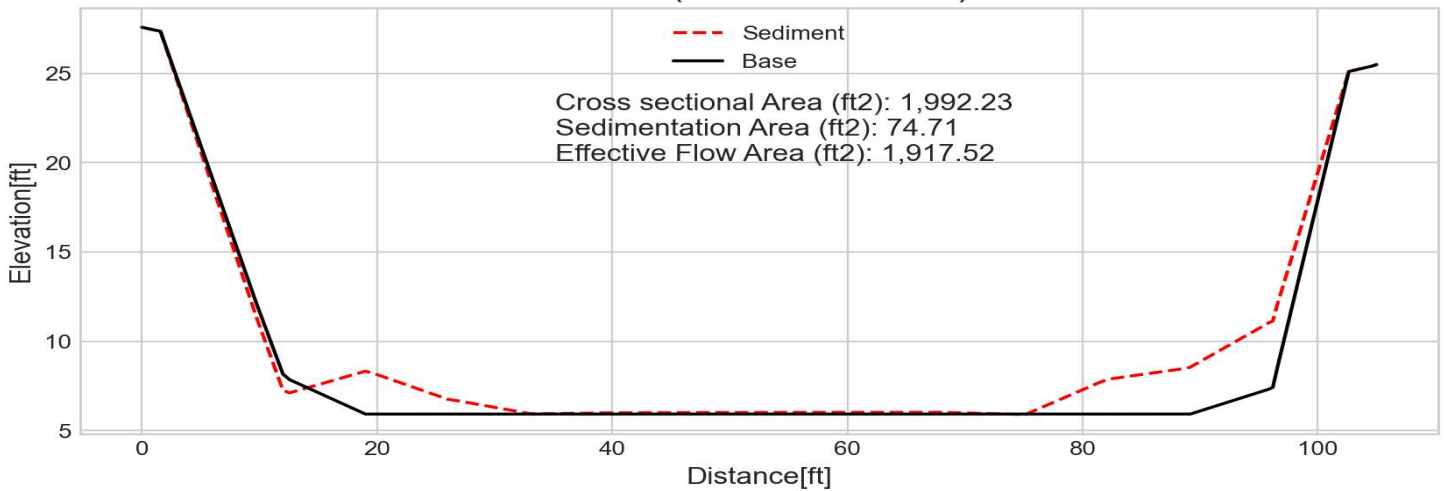
Year 6 (Station: 204+00)



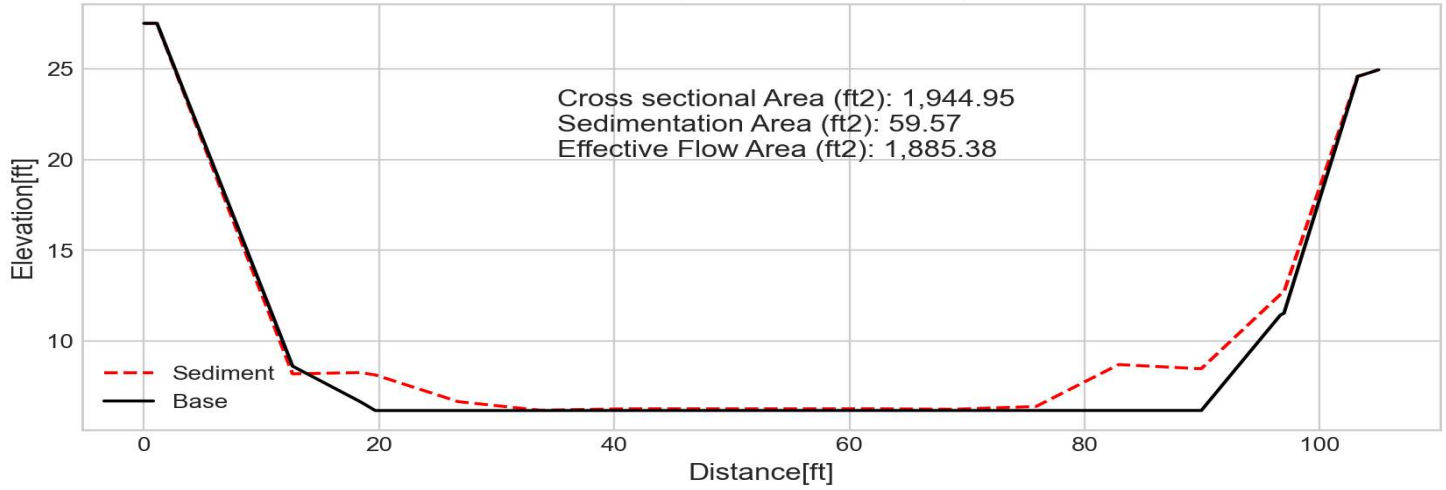
Year 6 (Station: 205+00)



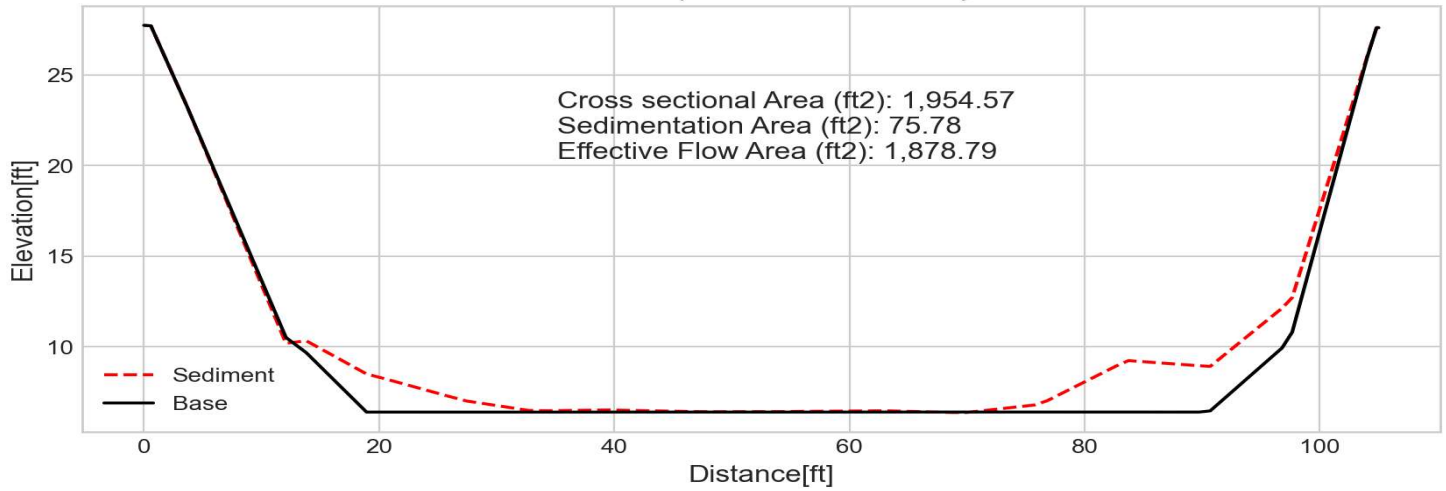
Year 6 (Station: 206+00)



Year 6 (Station: 207+00)



Year 6 (Station: 208+00)



Year 6 (Station: 209+00)

