



# Upper Barataria Basin, Louisiana Feasibility Report



**Appendix A: Annex 1 – Final Screening Phase: Quantities**

**December 2021**

| ESTIMATE QUANTITIES              |                                                                                      |                                                                                      |             |            |                        |                      |                      |          |                     |                   |                   |                      |          |             |           |                    |                    |                      |          |             |           |                    |                    |                      |          |             |           | 11/5/2019          |                        |                        |                                       |                      |               |
|----------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------|------------|------------------------|----------------------|----------------------|----------|---------------------|-------------------|-------------------|----------------------|----------|-------------|-----------|--------------------|--------------------|----------------------|----------|-------------|-----------|--------------------|--------------------|----------------------|----------|-------------|-----------|--------------------|------------------------|------------------------|---------------------------------------|----------------------|---------------|
| Contract ID                      | Contract                                                                             | Geotech Sub Reach                                                                    | Length (FT) | Toe to toe | X-Section Distance(FT) | Cross sectional area | Silt Fence (LF/Lift) | 1st Lift |                     |                   |                   | S&M, C&G (ACRES) *** | 2nd Lift |             |           |                    | Footprint width ** | S&M, C&G (ACRES) *** | 3rd Lift |             |           |                    | Footprint width ** | S&M, C&G (ACRES) *** | 4th Lift |             |           | Footprint width ** | S& M , C&G (ACRES) *** | TOTAL FILL QTY PER ALT | Total Seeding and Mulching , C&G (AC) | Tot. Silt Fence (LF) | Armoring (SY) |
|                                  |                                                                                      |                                                                                      |             |            |                        |                      |                      | Year     | Height of lift (FT) | Inplace Fill (CY) | Footprint width** |                      | Year     | Height (FT) | Fill (CY) | Footprint width ** |                    |                      | Year     | Height (FT) | Fill (CY) | Footprint width ** |                    |                      | Year     | Height (FT) | Fill (CY) |                    |                        |                        |                                       |                      |               |
| Alt 1 Design EL 7.5              | No additional lifts or berm included                                                 | D                                                                                    | 20275       | 68         | 98                     | 270                  | 50688                | 2023     | 7                   | 202,752           | 148.0             | 68.9                 | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       |                    |                        |                        |                                       | 155443               |               |
| Lift to 8.5                      |                                                                                      | E                                                                                    | 11352       | 68         | 98                     | 270                  | 28380                | 2023     | 7                   | 113,520           | 148.0             | 38.6                 | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | 1,086,096          | 369.0                  | 271524.0               | 87032                                 |                      |               |
| Base 1.5                         |                                                                                      | F,K                                                                                  | 24816       | 68         | 98                     | 270                  | 62040                | 2023     | 7                   | 248,160           | 148.0             | 84.3                 | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       |                    |                        |                        |                                       | 190256               |               |
| 1:4 SS                           |                                                                                      | G                                                                                    | 34478       | 68         | 98                     | 270                  | 86196                | 2023     | 7                   | 344,784           | 148.0             | 117.1                | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       |                    |                        |                        |                                       | 264334               |               |
|                                  |                                                                                      | H                                                                                    | 17688       | 68         | 98                     | 270                  | 44220                | 2023     | 7                   | 176,880           | 148.0             | 60.1                 | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       |                    |                        |                        |                                       | 135608               |               |
|                                  | Armoring only                                                                        | A                                                                                    | 25344       | N/A        | N/A                    | N/A                  | N/A                  | N/A      | N/A                 | N/A               | N/A               | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       |                    |                        |                        |                                       | 183040               |               |
|                                  | Armoring only                                                                        | B                                                                                    | 16526       | N/A        | N/A                    | N/A                  | N/A                  | N/A      | N/A                 | N/A               | N/A               | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       |                    |                        |                        |                                       | 119357               |               |
|                                  | Armoring only                                                                        | C                                                                                    | 20117       | N/A        | N/A                    | N/A                  | N/A                  | N/A      | N/A                 | N/A               | N/A               | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       |                    |                        |                        |                                       | 145288               |               |
| Alt 2 Design EL 8.5 to El 9.5    | Existing levee to el 7.5, 204 SF                                                     | A                                                                                    | 25344       | 76         | 106                    | 136                  | 63360                | 2023     | 8                   | 127,659           | 156.0             | 90.8                 | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       |                    |                        |                        |                                       | 205568               |               |
|                                  | Existing levee to el 7.5, 204 SF                                                     | B                                                                                    | 16526       | 76         | 106                    | 136                  | 41316                | 2023     | 8                   | 83,244            | 156.0             | 59.2                 | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       |                    |                        |                        |                                       | 134047               |               |
|                                  | Existing levee to el 7.5, 204 SF                                                     | C                                                                                    | 20117       | 76         | 106                    | 136                  | 50292                | 2023     | 8                   | 101,329           | 156.0             | 72.0                 | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | 1,483,101          |                        | 555                    | 387420                                | 163170               |               |
|                                  |                                                                                      | D                                                                                    | 20275       | 76         | 106                    | 340                  | 50688                | 2023     | 8                   | 255,317           | 156.0             | 72.6                 | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       |                    |                        |                        |                                       | 164454               |               |
|                                  | No additional lifts or berm included                                                 | E                                                                                    | 11352       | 76         | 106                    | 340                  | 28380                | 2023     | 8                   | 142,951           | 156.0             | 40.7                 | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       |                    |                        |                        |                                       | 92077                |               |
|                                  | D thru H Lift to EL 9.5                                                              | F,K                                                                                  | 15154       | 76         | 106                    | 340                  | 37884                | 2023     | 8                   | 190,823           | 156.0             | 54.3                 | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       |                    |                        |                        |                                       | 122913               |               |
|                                  |                                                                                      | G                                                                                    | 28512       | 76         | 106                    | 340                  | 71280                | 2023     | 8                   | 359,040           | 156.0             | 102.1                | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       |                    |                        |                        |                                       | 231264               |               |
|                                  |                                                                                      | H                                                                                    | 17688       | 76         | 106                    | 340                  | 44220                | 2023     | 8                   | 222,738           | 156.0             | 63.3                 | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       |                    |                        |                        |                                       | 143469               |               |
| Alt 3                            | No additional lifts or berm included                                                 | D                                                                                    | 20275       | 68         | 98                     | 270                  | 50688                | 2023     | 7                   | 202,752           | 148.0             | 68.9                 | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       |                    |                        |                        |                                       | 155443               |               |
| Lift to 8.5                      |                                                                                      | E                                                                                    | 11352       | 68         | 98                     | 270                  | 28380                | 2023     | 7                   | 113,520           | 148.0             | 38.6                 | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | 1,067,088          |                        | 363                    | 266772                                | 87032                |               |
| Base 1.5, 1:4 SS                 |                                                                                      | F,K                                                                                  | 75082       | 68         | 98                     | 270                  | 187704               | 2023     | 7                   | 750,816           | 148.0             | 255.1                | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       |                    |                        |                        |                                       | 190256               |               |
| Alt 5                            | No additional lifts or berm included                                                 | D                                                                                    | 20275       | 68         | 98                     | 270                  | 50688                | 2023     | 7                   | 202,752           | 148.0             | 68.9                 | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       |                    |                        |                        |                                       | 155443.2             |               |
| Lift to 8.5                      | 1:4 SS                                                                               | E                                                                                    | 11352       | 68         | 98                     | 270                  | 28380                | 2023     | 7                   | 113,520           | 148.0             | 38.6                 | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | 738,672            |                        | 251                    | 184668                                | 87032                |               |
| Base 1.5                         |                                                                                      | F,K                                                                                  | 24816       | 68         | 98                     | 270                  | 62040                | 2023     | 7                   | 248,160           | 148.0             | 84.3                 | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       |                    |                        |                        |                                       | 190256               |               |
|                                  |                                                                                      | G                                                                                    | 17424       | 68         | 98                     | 270                  | 43560                | 2023     | 7                   | 174,240           | 148.0             | 59.2                 | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       | N/A                | N/A                | N/A                  | N/A      | N/A         | N/A       |                    |                        |                        |                                       | 133584               |               |
| Alt 6 100 year Lift to 15 1:4 SS | Existing levee to el 7.5, 314 SF                                                     | A                                                                                    | 25344       | 130        | 160                    | 563                  | 63360                | 2023     | 13.5                | 528,469           | 210.0             | 122.2                | 2036     | 3           | 554752    | 264                | 154                | 2049                 | 3        | 446805      | 250       | 145                | 2062               | 3.5                  | 629845   | 264         | 154       |                    |                        |                        |                                       | 205568               |               |
|                                  | Existing levee to el 7.5, 195 SF                                                     | B                                                                                    | 16526.4     | 130        | 160                    | 682                  | 41316                | 2023     | 13.5                | 417,445           | 210.0             | 79.7                 | 2036     | 3           | 361745    | 264                | 100                | 2049                 | 3        | 291354      | 250       | 95                 | 2062               | 3.5                  | 410712   | 264         | 100       |                    |                        |                        |                                       | 134047               |               |
|                                  | Existing levee to el 7.5, 159 SF                                                     | C                                                                                    | 20116.8     | 130        | 160                    | 718                  | 50292                | 2023     | 13.5                | 534,958           | 210.0             | 97.0                 | 2036     | 3           | 440334    | 264                | 122                | 2049                 | 3        | 354652      | 250       | 115                | 2062               | 3.5                  | 499940   | 264         | 122       |                    | 14,701,380             |                        | 3471                                  | 1572912              | 163170        |
|                                  | 1st lift to 15', 2nd lift to 17', third lift to 19', 4th lift to 21'/base avg is 1.5 | D                                                                                    | 20275       | 130        | 160                    | 877                  | 50688                | 2023     | 13.5                | 658,569           | 210.0             | 97.7                 | 2034     | 3.5         | 443802    | 264                | 123                | 2047                 | 3.5      | 357444      | 250       | 116                | 2060               | 3.5                  | 503876   | 264         | 123       |                    |                        |                        |                                       | 164454               |               |
|                                  |                                                                                      | E                                                                                    | 11352       | 130        | 160                    | 877                  | 28380                | 2023     | 13.5                | 368,730           | 210.0             | 54.7                 | 2034     | 3.5         | 248483    | 264                | 69                 | 2047                 | 3.5      | 200132      | 250       | 65                 | 2060               | 3.5                  | 282118   | 264         | 69        |                    |                        |                        |                                       | 92077                |               |
|                                  |                                                                                      | F,K                                                                                  | 22704       | 130        | 160                    | 877                  | 56760                | 2023     | 13.5                | 737,460           | 210.0             | 109.5                | 2034     | 3.5         | 496965    | 264                | 138                | 2047                 | 3.5      | 400263      | 250       | 130                | 2060               | 3.5                  | 564236   | 264         | 138       |                    |                        |                        |                                       | 184155               |               |
|                                  |                                                                                      | G                                                                                    | 26558       | 130        | 2                      | 877                  | 66396                | 2023     | 13.5                | 862,656           | 52.0              | 31.7                 | 2034     | 3.5         | 581334    | 264                | 161                | 2047                 | 3.5      | 468215      | 250       | 152                | 2060               | 3.5                  | 660025   | 264         | 161       |                    |                        |                        |                                       | 215418               |               |
|                                  |                                                                                      | H                                                                                    | 14414       | 130        | 160                    | 877                  | 36036                | 2023     | 13.5                | 468,201           | 210.0             | 69.5                 | 2034     | 3.5         | 315515    | 264                | 87                 | 2047                 | 3.5      | 254121      | 250       | 83                 | 2060               | 3.5                  | 358225   | 264         | 87        |                    |                        |                        |                                       | 116917               |               |
|                                  | Alt 8 Lift to 15 1:4 SS                                                              | 1st lift to 15', 2nd lift to 17', third lift to 19', 4th lift to 21'/base avg is 1.5 | A           | 25344      | 130                    | 160                  | 563                  | 63360    | 2023                | 13.5              | 528,469           | 210.0                | 122.2    | 2036        | 3         | 554752             | 234                | 136                  | 2049     | 3           | 446805    | 2050               | 1193               | 2062                 | 3.5      | 629845      | 264       | 154                |                        |                        |                                       |                      | 205568        |
|                                  |                                                                                      |                                                                                      | B           | 16526.4    | 130                    | 160                  | 682                  | 41316    | 2023                | 13.5              | 417,445           | 210.0                | 79.7     | 2036        | 3         | 361745             | 234                | 89                   | 2049     | 3           | 291354    | 2050               | 778                | 2062                 | 3.5      | 410712      | 264       | 100                |                        |                        |                                       |                      | 134047        |
| C                                |                                                                                      |                                                                                      | 20116.8     | 130        | 160                    | 718                  | 50292                | 2023     | 13.5                | 534,958           | 210.0             | 97.0                 | 2036     | 3           | 440334    | 234                | 108                | 2049                 | 3        | 354652      | 2050      | 947                | 2062               | 3.5                  | 499940   | 264         | 122       |                    |                        |                        |                                       | 163170               |               |
| D                                |                                                                                      |                                                                                      | 20275       | 130        | 160                    | 877                  | 50688                | 2023     | 13.5                | 658,569           | 210.0             | 97.7                 | 2034     | 3.5         | 443802    | 234                | 109                | 2047                 | 3.5      | 357444      | 2050      | 954                | 2060               | 3.5                  | 503876   | 264         | 123       |                    |                        |                        |                                       | 164454               |               |
| E                                |                                                                                      |                                                                                      | 11352       | 130        | 160                    | 877                  | 28380                | 2023     | 13.5                | 368,730           | 210.0             | 54.7                 | 2034     | 3.5         | 248483    | 234                | 61                 | 2047                 | 3.5      | 200132      | 2050      | 534                | 2060               | 3.5                  | 282118   | 264         | 69        |                    |                        |                        |                                       | 92077                |               |
| F,K                              |                                                                                      | 15154                                                                                | 130         | 160        | 877                    | 37884                | 2023                 | 13.5     | 492,211             | 210.0             | 73.1              | 2034                 | 3.5      | 331695      | 234       | 81                 | 2047               | 3.5                  | 267152   | 2050        | 713       | 2060               | 3.5                | 376595               | 264      | 92          |           |                    |                        |                        | 122913                                |                      |               |
| G, H, and I have 115' crown      |                                                                                      | G                                                                                    | 28512       | 130        | 160                    | 2368                 | 71280                | 2023     | 13.5                | 2,500,608         | 210.0             | 137.5                | 2051     | 3.5         | 1347456   | 234                | 153                | 2059                 | 4        |             |           |                    |                    |                      |          |             |           |                    |                        |                        |                                       |                      |               |