

FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 3 OF 15



LEE COUNTY, FLORIDA AND INCORPORATED AREAS

| COMMUNITY NAME | COMMUNITY NUMBER |
|-------------------------------------|------------------|
| BONITA SPRINGS, CITY OF | 120680 |
| CAPE CORAL, CITY OF | 125095 |
| ESTERO, VILLAGE OF | 120260 |
| FORT MYERS, CITY OF | 125106 |
| FORT MYERS BEACH, TOWN OF | 120673 |
| LEE COUNTY, UNINCORPORATED AREAS | 125124 |
| SANIBEL, CITY OF | 120402 |



FEMA

REVISED:

November 17, 2022

FLOOD INSURANCE STUDY NUMBER

12071CV003C

Version Number 2.4.3.5

TABLE OF CONTENTS

Volume 1

| | <u>Page</u> |
|-----------------------------------------------------------------|-------------|
| SECTION 1.0 – INTRODUCTION | 1 |
| 1.1 The National Flood Insurance Program | 1 |
| 1.2 Purpose of this Flood Insurance Study Report | 2 |
| 1.3 Jurisdictions Included in the Flood Insurance Study Project | 2 |
| 1.4 Considerations for using this Flood Insurance Study Report | 8 |
| | |
| SECTION 2.0 – FLOODPLAIN MANAGEMENT APPLICATIONS | 20 |
| 2.1 Floodplain Boundaries | 20 |
| 2.2 Floodways | 32 |
| 2.3 Base Flood Elevations | 33 |
| 2.4 Non-Encroachment Zones | 33 |
| 2.5 Coastal Flood Hazard Areas | 33 |
| 2.5.1 Water Elevations and the Effects of Waves | 34 |
| 2.5.2 Floodplain Boundaries and BFEs for Coastal Areas | 35 |
| 2.5.3 Coastal High Hazard Areas | 36 |
| 2.5.4 Limit of Moderate Wave Action | 37 |
| | |
| SECTION 3.0 – INSURANCE APPLICATIONS | 38 |
| 3.1 National Flood Insurance Program Insurance Zones | 38 |
| | |
| SECTION 4.0 – AREA STUDIED | 39 |
| 4.1 Basin Description | 39 |
| 4.2 Principal Flood Problems | 39 |
| 4.3 Non-Levee Flood Protection Measures | 40 |
| 4.4 Levees | 40 |
| | |
| SECTION 5.0 – ENGINEERING METHODS | 41 |
| 5.1 Hydrologic Analyses | 41 |
| 5.2 Hydraulic Analyses | 49 |
| 5.3 Coastal Analyses | 62 |
| 5.3.1 Total Stillwater Elevations | 66 |
| 5.3.2 Waves | 68 |
| 5.3.3 Coastal Erosion | 69 |

Figures

| | <u>Page</u> |
|-----------------------------------------|-------------|
| Figure 1: FIRM Index | 11 |
| Figure 2: FIRM Notes to Users | 13 |
| Figure 3: Map Legend for FIRM | 16 |
| Figure 4: Floodway Schematic | 32 |
| Figure 5: Wave Runup Transect Schematic | 35 |

| | |
|--------------------------------------------------------------------------|----|
| Figure 6: Coastal Transect Schematic | 37 |
| Figure 7: Frequency Discharge-Drainage Area Curves | 48 |
| Figure 8: 1% Annual Chance Total Stillwater Elevations for Coastal Areas | 67 |

Tables

| | <u>Page</u> |
|----------------------------------------------------------------|-------------|
| Table 1: Listing of NFIP Jurisdictions | 2 |
| Table 2: Flooding Sources Included in this FIS Report | 22 |
| Table 3: Flood Zone Designations by Community | 38 |
| Table 4: Basin Characteristics | 39 |
| Table 5: Principal Flood Problems | 39 |
| Table 6: Historic Flooding Elevations | 40 |
| Table 7: Non-Levee Flood Protection Measures | 40 |
| Table 8: Levees | 41 |
| Table 9: Summary of Discharges | 42 |
| Table 10: Summary of Non-Coastal Stillwater Elevations | 48 |
| Table 11: Stream Gage Information used to Determine Discharges | 48 |
| Table 12: Summary of Hydrologic and Hydraulic Analyses | 50 |
| Table 13: Roughness Coefficients | 61 |
| Table 14: Summary of Coastal Analyses | 63 |
| Table 15: Tide Gage Analysis Specifics | 68 |

Volume 2

| | <u>Page</u> |
|------------------------------------------------------|-------------|
| SECTION 5.0 – ENGINEERING METHODS (CONTINUED) | |
| 5.3.4 Wave Hazard Analyses | 70 |
| 5.4 Alluvial Fan Analyses | 137 |
| SECTION 6.0 – MAPPING METHODS | 137 |
| 6.1 Vertical and Horizontal Control | 137 |
| 6.2 Base Map | 138 |
| 6.3 Floodplain and Floodway Delineation | 139 |

Figures

| | <u>Page</u> |
|---------------------------------|-------------|
| Figure 9: Transect Location Map | 127 |

Tables

| | <u>Page</u> |
|--------------------------------------------|-------------|
| Table 16: Coastal Transect Parameters | 71 |
| Table 17: Summary of Alluvial Fan Analyses | 137 |

| | |
|-----------------------------------------------------------------|-----|
| Table 18: Results of Alluvial Fan Analyses | 137 |
| Table 19: Countywide Vertical Datum Conversion | 137 |
| Table 20: Stream-Based Vertical Datum Conversion | 138 |
| Table 21: Base Map Sources | 138 |
| Table 22: Summary of Topographic Elevation Data used in Mapping | 140 |

Volume 3

| | <u>Page</u> |
|--------------------------------------------------------------------|-------------|
| SECTION 6.0 – MAPPING METHODS (CONTINUED) | |
| 6.4 Coastal Flood Hazard Mapping | 191 |
| 6.5 FIRM Revisions | 213 |
| 6.5.1 Letters of Map Amendment | 214 |
| 6.5.2 Letters of Map Revision Based on Fill | 214 |
| 6.5.3 Letters of Map Revision | 214 |
| 6.5.4 Physical Map Revisions | 216 |
| 6.5.5 Contracted Restudies | 216 |
| 6.5.6 Community Map History | 216 |
| SECTION 7.0 – CONTRACTED STUDIES AND COMMUNITY COORDINATION | |
| 7.1 Contracted Studies | 218 |

Tables

| | <u>Page</u> |
|-----------------------------------------------------------------------|-------------|
| Table 23: Floodway Data | 141 |
| Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams | 191 |
| Table 25: Summary of Coastal Transect Mapping Considerations | 192 |
| Table 26: Incorporated Letters of Map Change | 215 |
| Table 27: Community Map History | 217 |
| Table 28: Summary of Contracted Studies Included in this FIS Report | 219 |

Volume 4

| | <u>Page</u> |
|--------------------------------------------------------------------------------|-------------|
| SECTION 7.0 – CONTRACTED STUDIES AND COMMUNITY COORDINATION (CONTINUED) | |
| 7.2 Community Meetings | 226 |
| SECTION 8.0 – ADDITIONAL INFORMATION | |
| 229 | |
| SECTION 9.0 – BIBLIOGRAPHY AND REFERENCES | |
| 230 | |

Tables

| | <u>Page</u> |
|---------------------------------------|-------------|
| Table 29: Community Meetings | 227 |
| Table 30: Map Repositories | 229 |
| Table 31: Additional Information | 230 |
| Table 32: Bibliography and References | 231 |

Exhibits

| <u>Flood Profiles</u> | <u>Panel</u> |
|--------------------------------------------------------|--------------|
| Bayshore Creek | 01-02 P |
| Bedman Creek/Dog Canal | 03-06 P |
| Billy Creek | 07-08 P |
| Carrell Canal | 09-10 P |
| Chapel Branch Creek | 11-12 P |
| Cypress Creek | 13-14 P |
| Daughtrey Creek | 15-17 P |
| East Branch Daughtrey Creek | 18-19 P |
| East Branch Yellow Fever Creek | 20-22 P |
| Estero River | 23-25 P |
| Fichter Creek | 26 P |
| Ford Street Canal | 27-28 P |
| Halfway Creek | 29-30 P |
| Halls Creek | 31 P |
| Hancock Creek | 32 P |
| Hickey Creek/Hickey Creek Drainageway | 33-35 P |
| Hickey Creek (Upstream of Hickey Creek Drainageway) | 36 P |
| Imperial River | 37-38 P |
| L-3 Canal | 39-40 P |
| Leitner Creek | 41-42 P |
| Manuels Branch | 43-44 P |
| Marsh Point Creek | 45-46 P |
| Mullock Creek | 47 P |
| Mullock Creek Tributary | 48 P |
| North Colonial Waterway | 49 P |
| Oak Creek | 50 P |
| Orange River | 51-52 P |
| Owl Creek | 53-54 P |
| Palm Creek | 55-57 P |
| Popash Creek | 58-60 P |
| Powell Creek/Powell Bypass | 61-63 P |
| Powell Creek (Upstream of Confluence of Powell Bypass) | 64 P |
| Powell Creek Tributary No. 1 | 65 P |
| Six Mile Cypress Slough | 66-69 P |
| South Branch | 70 P |
| Spanish Canal | 71 P |

| | |
|-----------------|---------|
| Spanish Creek | 72-74 P |
| Spring Creek | 75 P |
| Stricklin Gully | 76 P |

Volume 5
Exhibits

| Flood Profiles | <u>Panel</u> |
|-------------------------------------------------|--------------|
| Stroud Creek | 77-78 P |
| Telegraph Creek | 79-80 P |
| Ten Mile Canal | 81-84 P |
| Tributary L-1 (Yellow Fever Creek Tributary) | 85 P |
| Tributary L-2 (Yellow Fever Creek Tributary) | 86 P |
| Trout Creek/Curry Lake Canal | 87-88 P |
| Winkler Canal | 89-90 P |
| Yellow Fever Creek | 91 P |

| Transect Profiles | <u>Panel</u> |
|-------------------|--------------|
| Transect 1 | 001 T |
| Transect 2 | 002 T |
| Transect 3 | 003 T |
| Transect 4 | 004 T |
| Transect 5 | 005-006 T |
| Transect 6 | 007-008 T |
| Transect 7 | 009-010 T |
| Transect 8 | 011-012 T |
| Transect 9 | 013-014 T |
| Transect 10 | 015 T |
| Transect 11 | 016 T |
| Transect 12 | 017 T |
| Transect 13 | 018-019 T |
| Transect 14 | 020-021 T |
| Transect 15 | 022-024 T |
| Transect 16 | 025-026 T |
| Transect 17 | 027-028 T |
| Transect 18 | 029-030 T |
| Transect 19 | 031 T |
| Transect 20 | 032-033 T |
| Transect 21 | 034 T |
| Transect 22 | 035 T |
| Transect 23 | 036-037 T |
| Transect 24 | 038-039 T |
| Transect 25 | 040 T |
| Transect 26 | 041 T |
| Transect 27 | 042 T |
| Transect 28 | 043 T |
| Transect 29 | 044-045 T |

| | |
|-------------|-----------|
| Transect 30 | 046 T |
| Transect 31 | 047 T |
| Transect 32 | 048 T |
| Transect 33 | 049-050 T |
| Transect 34 | 051 T |
| Transect 35 | 052 T |
| Transect 36 | 053 T |
| Transect 37 | 054-055 T |
| Transect 38 | 056-057 T |
| Transect 39 | 058-059 T |
| Transect 40 | 060-061 T |
| Transect 41 | 062-063 T |
| Transect 42 | 064-065 T |
| Transect 43 | 066-067 T |
| Transect 44 | 068-069 T |

Volume 6
Exhibits

| | |
|-------------------|--------------|
| Transect Profiles | <u>Panel</u> |
| Transect 45 | 070-072 T |
| Transect 46 | 073-075 T |
| Transect 47 | 076-078 T |
| Transect 48 | 079-081 T |
| Transect 49 | 082-084 T |
| Transect 50 | 085-087 T |
| Transect 51 | 088-090 T |
| Transect 52 | 091-093 T |
| Transect 53 | 094-095 T |
| Transect 54 | 096-097 T |
| Transect 55 | 098-099 T |
| Transect 56 | 100-101 T |
| Transect 57 | 102-103 T |
| Transect 58 | 104-105 T |
| Transect 59 | 106-107 T |
| Transect 60 | 108-110 T |
| Transect 61 | 111-113 T |
| Transect 62 | 114-115 T |
| Transect 63 | 116-117 T |
| Transect 64 | 118-119 T |
| Transect 65 | 120 T |
| Transect 66 | 121 T |
| Transect 67 | 122 T |
| Transect 68 | 123 T |
| Transect 69 | 124 T |
| Transect 70 | 125-126 T |
| Transect 71 | 127-128 T |
| Transect 72 | 129-130 T |
| Transect 73 | 131-132 T |

| | |
|-------------|-----------|
| Transect 74 | 133-134 T |
| Transect 75 | 135 T |
| Transect 76 | 136 T |
| Transect 77 | 137-139 T |
| Transect 78 | 140-142 T |
| Transect 79 | 143-144 T |
| Transect 80 | 145-147 T |
| Transect 81 | 148-150 T |
| Transect 82 | 151-152 T |

Volume 7
Exhibits

| Transect Profiles | <u>Panel</u> |
|-------------------|--------------|
| Transect 83 | 153-154 T |
| Transect 84 | 155-156 T |
| Transect 85 | 157 T |
| Transect 86 | 158 T |
| Transect 87 | 159 T |
| Transect 88 | 160 T |
| Transect 89 | 161 T |
| Transect 90 | 162 T |
| Transect 91 | 163 T |
| Transect 92 | 164 T |
| Transect 93 | 165-166 T |
| Transect 94 | 167 T |
| Transect 95 | 168-169 T |
| Transect 96 | 170-171 T |
| Transect 97 | 172 T |
| Transect 98 | 173 T |
| Transect 99 | 174-176 T |
| Transect 100 | 177-179 T |
| Transect 101 | 180-182 T |
| Transect 102 | 183-185 T |
| Transect 103 | 186-188 T |
| Transect 104 | 189-191 T |
| Transect 105 | 192-194 T |
| Transect 106 | 195-197 T |
| Transect 107 | 198-200 T |
| Transect 108 | 201-203 T |
| Transect 109 | 204-205 T |
| Transect 110 | 206-208 T |
| Transect 111 | 209-210 T |
| Transect 112 | 211-213 T |
| Transect 113 | 214-216 T |
| Transect 114 | 217-219 T |
| Transect 115 | 220-222 T |
| Transect 116 | 223-225 T |
| Transect 117 | 226-228 T |

| | |
|--------------|-----------|
| Transect 118 | 229-230 T |
| Transect 119 | 231-232 T |

Volume 8
Exhibits

| Transect Profiles | <u>Panel</u> |
|-------------------|--------------|
| Transect 120 | 233-235 T |
| Transect 121 | 236-237 T |
| Transect 122 | 238-239 T |
| Transect 123 | 240-241 T |
| Transect 124 | 242-243 T |
| Transect 125 | 244-245 T |
| Transect 126 | 246-247 T |
| Transect 127 | 248-249 T |
| Transect 128 | 250-251 T |
| Transect 129 | 252-253 T |
| Transect 130 | 254-255 T |
| Transect 131 | 256-257 T |
| Transect 132 | 258-259 T |
| Transect 133 | 260-261 T |
| Transect 134 | 262-263 T |
| Transect 135 | 264-265 T |
| Transect 136 | 266-268 T |
| Transect 137 | 269-271 T |
| Transect 138 | 272-273 T |
| Transect 139 | 274-275 T |
| Transect 140 | 276-277 T |
| Transect 141 | 278-279 T |
| Transect 142 | 280-282 T |
| Transect 143 | 283-284 T |
| Transect 144 | 285-286 T |
| Transect 145 | 287-289 T |
| Transect 146 | 290-292 T |
| Transect 147 | 293-294 T |
| Transect 148 | 295-296 T |
| Transect 149 | 297-298 T |
| Transect 150 | 299-300 T |
| Transect 151 | 301-302 T |
| Transect 152 | 303-304 T |
| Transect 153 | 305-306 T |
| Transect 154 | 307-308 T |
| Transect 155 | 309-310 T |
| Transect 156 | 311-313 T |

Volume 9
Exhibits

| Transect Profiles | <u>Panel</u> |
|-------------------|--------------|
| Transect 157 | 314-316 T |
| Transect 158 | 317-319 T |
| Transect 159 | 320-322 T |
| Transect 160 | 323-324 T |
| Transect 161 | 325-326 T |
| Transect 162 | 327-328 T |
| Transect 163 | 329-330 T |
| Transect 164 | 331-332 T |
| Transect 165 | 333-334 T |
| Transect 166 | 335-337 T |
| Transect 167 | 338-339 T |
| Transect 168 | 340-341 T |
| Transect 169 | 342-343 T |
| Transect 170 | 344-346 T |
| Transect 171 | 347-348 T |
| Transect 172 | 349-351 T |
| Transect 173 | 352-353 T |
| Transect 174 | 354-355 T |
| Transect 175 | 356-357 T |
| Transect 176 | 358-359 T |
| Transect 177 | 360-361 T |
| Transect 178 | 362-363 T |
| Transect 179 | 364 T |
| Transect 180 | 365-366 T |
| Transect 181 | 367-370 T |
| Transect 182 | 369-370 T |
| Transect 183 | 371-372 T |
| Transect 184 | 373-374 T |
| Transect 185 | 375-376 T |
| Transect 186 | 377-378 T |
| Transect 187 | 379 T |
| Transect 188 | 380-381 T |
| Transect 189 | 382-383 T |
| Transect 190 | 384-385 T |
| Transect 191 | 386-387 T |
| Transect 192 | 388-389 T |
| Transect 193 | 390-391 T |
| Transect 194 | 392-393 T |
| Transect 195 | 394-395 T |

Volume 10
Exhibits

| Transect Profiles | <u>Panel</u> |
|-------------------|--------------|
| Transect 196 | 396-397 T |
| Transect 197 | 398-399 T |
| Transect 198 | 400-401 T |
| Transect 199 | 402-403 T |
| Transect 200 | 404-406 T |
| Transect 201 | 407-408 T |
| Transect 202 | 409-411 T |
| Transect 203 | 412-413 T |
| Transect 204 | 414-415 T |
| Transect 205 | 416-417 T |
| Transect 206 | 418-419 T |
| Transect 207 | 420-422 T |
| Transect 208 | 423-424 T |
| Transect 209 | 425-426 T |
| Transect 210 | 427-428 T |
| Transect 211 | 429-431 T |
| Transect 212 | 432-434 T |
| Transect 213 | 435-436 T |
| Transect 214 | 437-438 T |
| Transect 215 | 439-440 T |
| Transect 216 | 441-442 T |
| Transect 217 | 443-445 T |
| Transect 218 | 446-447 T |
| Transect 219 | 448-450 T |
| Transect 220 | 451-453 T |
| Transect 221 | 454-456 T |
| Transect 222 | 457-459 T |
| Transect 223 | 460-462 T |
| Transect 224 | 463-465 T |
| Transect 225 | 466-468 T |
| Transect 226 | 469-471 T |
| Transect 227 | 472-474 T |
| Transect 228 | 475-477 T |

Volume 11
Exhibits

| Transect Profiles | <u>Panel</u> |
|-------------------|--------------|
| Transect 229 | 478-479 T |
| Transect 230 | 480-481 T |
| Transect 231 | 482-483 T |
| Transect 232 | 484-486 T |
| Transect 233 | 487-488 T |
| Transect 234 | 489-490 T |
| Transect 235 | 491-492 T |

| | |
|--------------|-----------|
| Transect 236 | 493-495 T |
| Transect 237 | 496-497 T |
| Transect 238 | 498-500 T |
| Transect 239 | 501-503 T |
| Transect 240 | 504-506 T |
| Transect 241 | 507 T |
| Transect 242 | 508-510 T |
| Transect 243 | 511-512 T |
| Transect 244 | 513-514 T |
| Transect 245 | 515-516 T |
| Transect 246 | 517-518 T |
| Transect 247 | 519-520 T |
| Transect 248 | 521-522 T |
| Transect 249 | 523-524 T |
| Transect 250 | 525-526 T |
| Transect 251 | 527-528 T |
| Transect 252 | 529-530 T |
| Transect 253 | 531-532 T |
| Transect 254 | 533-534 T |
| Transect 255 | 535-537 T |
| Transect 256 | 538-539 T |
| Transect 257 | 540-541 T |
| Transect 258 | 542-543 T |
| Transect 259 | 544-545 T |
| Transect 260 | 546-548 T |
| Transect 261 | 549-551 T |
| Transect 262 | 552-553 T |
| Transect 263 | 554-556 T |
| Transect 264 | 557-558 T |
| Transect 265 | 559-561 T |

Volume 12
Exhibits

| | |
|-------------------|--------------|
| Transect Profiles | <u>Panel</u> |
| Transect 266 | 562-563 T |
| Transect 267 | 564-565 T |
| Transect 268 | 566-567 T |
| Transect 269 | 568-570 T |
| Transect 270 | 571-572 T |
| Transect 271 | 573-575 T |
| Transect 272 | 576-578 T |
| Transect 273 | 579-581 T |
| Transect 274 | 582-584 T |
| Transect 275 | 585-587 T |
| Transect 276 | 588-589 T |
| Transect 277 | 590-592 T |
| Transect 278 | 593-594 T |
| Transect 279 | 595 T |

| | |
|--------------|-----------|
| Transect 280 | 596 T |
| Transect 281 | 597 T |
| Transect 282 | 598 T |
| Transect 283 | 599 T |
| Transect 284 | 600-601 T |
| Transect 285 | 602-603 T |
| Transect 286 | 604-605 T |
| Transect 287 | 606-607 T |
| Transect 288 | 608-609 T |
| Transect 289 | 610 T |
| Transect 290 | 611 T |
| Transect 291 | 612 T |
| Transect 292 | 613-614 T |
| Transect 293 | 615 T |
| Transect 294 | 616-617 T |
| Transect 295 | 618-619 T |
| Transect 296 | 620-621 T |
| Transect 297 | 622-623 T |
| Transect 298 | 624-626 T |
| Transect 299 | 627-629 T |

Volume 13
Exhibits

| Transect Profiles | <u>Panel</u> |
|-------------------|--------------|
| Transect 300 | 630-631 T |
| Transect 301 | 632-633 T |
| Transect 302 | 634-636 T |
| Transect 303 | 637-639 T |
| Transect 304 | 640-641 T |
| Transect 305 | 642-643 T |
| Transect 306 | 644-646 T |
| Transect 307 | 647-648 T |
| Transect 308 | 649-650 T |
| Transect 309 | 651-653 T |
| Transect 310 | 654-655 T |
| Transect 311 | 656-658 T |
| Transect 312 | 659-660 T |
| Transect 313 | 661-662 T |
| Transect 314 | 663-664 T |
| Transect 315 | 665-666 T |
| Transect 316 | 667-668 T |
| Transect 317 | 669-670 T |
| Transect 318 | 671-672 T |
| Transect 319 | 673 T |
| Transect 320 | 674 T |
| Transect 321 | 675-676 T |
| Transect 322 | 677-678 T |
| Transect 323 | 679-680 T |

| | |
|--------------|-----------|
| Transect 324 | 681-682 T |
| Transect 325 | 683-684 T |
| Transect 326 | 685 T |
| Transect 327 | 686-687 T |
| Transect 328 | 688 T |
| Transect 329 | 689-690 T |
| Transect 330 | 691-692 T |
| Transect 331 | 693-694 T |
| Transect 332 | 695-696 T |
| Transect 333 | 697-699 T |
| Transect 334 | 700-701 T |
| Transect 335 | 702-704 T |
| Transect 336 | 705-706 T |
| Transect 337 | 707 T |
| Transect 338 | 708-709 T |
| Transect 339 | 710 T |

Volume 14
Exhibits

| Transect Profiles | <u>Panel</u> |
|-------------------|--------------|
| Transect 340 | 711-713 T |
| Transect 341 | 714-715 T |
| Transect 342 | 716-718 T |
| Transect 343 | 719-721 T |
| Transect 344 | 722-724 T |
| Transect 345 | 725-727 T |
| Transect 346 | 728-729 T |
| Transect 347 | 730 T |
| Transect 348 | 731-732 T |
| Transect 349 | 733-734 T |
| Transect 350 | 735-736 T |
| Transect 351 | 737-738 T |
| Transect 352 | 739-740 T |
| Transect 353 | 741-742 T |
| Transect 354 | 743 T |
| Transect 355 | 744-745 T |
| Transect 356 | 746-748 T |
| Transect 357 | 749-750 T |
| Transect 358 | 751-752 T |
| Transect 359 | 753-755 T |
| Transect 360 | 756-757 T |
| Transect 361 | 758-760 T |
| Transect 362 | 761-762 T |
| Transect 363 | 763-764 T |
| Transect 364 | 765-766 T |
| Transect 365 | 767-768 T |
| Transect 366 | 769-770 T |
| Transect 367 | 771-772 T |

| | |
|--------------|-----------|
| Transect 368 | 773-775 T |
| Transect 369 | 776-778 T |
| Transect 370 | 779-781 T |

Volume 15
Exhibits

| Transect Profiles | <u>Panel</u> |
|-------------------|--------------|
| Transect 371 | 782-784 T |
| Transect 372 | 785-786 T |
| Transect 373 | 787 T |
| Transect 374 | 788-789 T |
| Transect 375 | 790-791 T |
| Transect 376 | 792-793 T |
| Transect 377 | 794-795 T |
| Transect 378 | 796-797 T |
| Transect 379 | 798-799 T |
| Transect 380 | 800-801 T |
| Transect 381 | 802-803 T |
| Transect 382 | 804-805 T |
| Transect 383 | 806-807 T |
| Transect 384 | 808-809 T |
| Transect 385 | 810-811 T |
| Transect 386 | 812-813 T |
| Transect 387 | 814-815 T |
| Transect 388 | 816-818 T |
| Transect 389 | 818-819 T |

Published Separately

Flood Insurance Rate Map (FIRM)

Table 23: Floodway Data

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|----------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ² | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A ¹ | 800 | N/A | N/A | N/A | * | 0.8 ⁴ | N/A | N/A |
| B ¹ | 2,100 | N/A | N/A | N/A | * | 3.4 ⁴ | N/A | N/A |
| C ¹ | 3,400 | N/A | N/A | N/A | * | 3.7 ⁴ | N/A | N/A |
| D ¹ | 4,237 | N/A | N/A | N/A | * | 4.0 ⁴ | N/A | N/A |
| E | 6,533 | 220 | 445 | 2.3 | 9.7 ³ | 8.6 ⁴ | 9.2 | 0.6 |
| F | 7,686 | 280 | 838 | 1.2 | 10.6 | 10.6 | 11.5 | 0.9 |
| G | 9,991 | 260 | 1,101 | 0.7 | 12.8 | 12.8 | 13.7 | 0.9 |
| H | 11,242 | 418 | 2,728 | 0.3 | 19.8 | 19.8 | 19.9 | 0.1 |
| I | 16,272 | 115 | 312 | 1.8 | 20.4 | 20.4 | 21.2 | 0.8 |
| J | 17,727 | 550 | 2,177 | 0.3 | 21.7 | 21.7 | 22.6 | 0.9 |
| K | 18,981 | 675 | 1,779 | 0.3 | 21.8 | 21.8 | 22.7 | 0.9 |
| L | 19,279 | 675 | 2,131 | 0.2 | 21.8 | 21.8 | 22.7 | 0.9 |
| M | 19,678 | 775 | 1,999 | 0.2 | 21.8 | 21.8 | 22.7 | 0.9 |
| N | 21,321 | 1,084 | 2,144 | 0.2 | 21.8 | 21.8 | 22.8 | 1.0 |
| O | 23,967 | 34 | 142 | 2.2 | 22.2 | 22.2 | 23.1 | 0.9 |
| P | 24,798 | 469 | 581 | 0.5 | 23.5 | 23.5 | 23.6 | 0.1 |

¹Floodway not computed/shown for this cross section

²Feet above mouth

³Combined coastal and riverine effects from Caloosahatchee River and Bayshore Creek

⁴Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BAYSHORE CREEK

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 1,760 | 1,159 | 2,906 | 1.5 | * | 6.9 ³ | 7.7 | 0.8 |
| B | 2,730 | 1,610 | 3,715 | 1.1 | * | 7.9 ³ | 8.6 | 0.7 |
| C | 4,160 | 1,142 | 3,632 | 1.1 | 10.7 ² | 9.9 ³ | 10.3 | 0.4 |
| D | 5,304 | 266 | 1,431 | 2.9 | 11.2 ² | 10.7 ³ | 11.1 | 0.4 |
| E | 6,562 | 304 | 1,689 | 2.5 | 12.2 ² | 12.0 ³ | 12.4 | 0.4 |
| F | 7,731 | 375 | 2,080 | 2.0 | 12.7 ² | 12.6 ³ | 13.1 | 0.5 |
| G | 8,665 | 378 | 1,987 | 2.0 | 13.2 ² | 13.1 ³ | 13.7 | 0.6 |
| H | 9,705 | 452 | 2,846 | 1.4 | 13.8 ² | 13.8 ³ | 14.6 | 0.8 |
| I | 10,589 | 400 | 2,166 | 1.9 | 14.5 | 14.5 | 15.2 | 0.7 |
| J | 11,624 | 657 | 4,028 | 0.9 | 14.6 | 14.6 | 15.6 | 1.0 |
| K | 12,724 | 786 | 4,349 | 0.8 | 14.9 | 14.9 | 15.9 | 1.0 |
| L | 13,924 | 1,138 | 6,237 | 0.6 | 15.0 | 15.0 | 16.0 | 1.0 |
| M | 15,024 | 1,507 | 7,603 | 0.5 | 15.1 | 15.1 | 16.1 | 1.0 |
| N | 15,774 | 1,361 | 4,077 | 0.9 | 15.3 | 15.3 | 16.3 | 1.0 |
| O | 21,474 | 86 | 723 | 4.2 | 19.9 | 19.9 | 20.3 | 0.4 |
| P | 29,922 | 453 | 2,026 | 1.1 | 24.3 | 24.3 | 24.7 | 0.4 |
| Q | 33,190 | 926 | 3,546 | 0.5 | 24.5 | 24.5 | 25.0 | 0.5 |
| R | 39,222 | 770 | 2,312 | 0.5 | 26.1 | 26.1 | 26.4 | 0.3 |
| S | 40,503 | 480 | 1,650 | 0.2 | 26.1 | 26.1 | 26.4 | 0.3 |
| T | 46,749 | 80 | 693 | 0.5 | 26.1 | 26.1 | 26.5 | 0.4 |

¹Feet above mouth

²Combined coastal and riverine effects from Caloosahatchee River and Bedman Creek/Dog Canal

³Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BEDMAN CREEK / DOG CANAL

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|----------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ² | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A ¹ | 505 | N/A | N/A | N/A | * | 1.3 ⁴ | N/A | N/A |
| B | 3,482 | 115 | 787 | 5.5 | * | 4.8 ⁴ | 5.2 | 0.4 |
| C | 5,126 | 178 | 1,244 | 3.4 | * | 6.1 ⁴ | 6.6 | 0.5 |
| D | 7,656 | 155 | 1,750 | 1.6 | * | 6.9 ⁴ | 7.6 | 0.7 |
| E | 8,475 | 60 | 548 | 5.2 | 9.4 ³ | 7.7 ⁴ | 8.6 | 0.9 |
| F | 10,258 | 295 | 1,475 | 1.9 | 10.0 ³ | 9.4 ⁴ | 10.3 | 0.9 |
| G | 11,665 | 176 | 1,319 | 2.2 | 10.5 ³ | 10.2 ⁴ | 11.1 | 0.9 |
| H | 12,825 | 575 | 4,289 | 0.7 | 10.9 ³ | 10.7 ⁴ | 11.7 | 1.0 |
| I | 13,695 | 1,144 | 6,316 | 0.5 | 10.9 ³ | 10.8 ⁴ | 11.8 | 1.0 |
| J | 15,035 | 744 | 4,009 | 0.7 | 11.0 ³ | 10.8 ⁴ | 11.8 | 1.0 |
| K | 16,585 | 629 | 2,777 | 1.0 | 11.2 ³ | 11.1 ⁴ | 12.1 | 1.0 |
| L | 18,733 | 448 | 1,374 | 2.1 | 13.2 | 13.2 | 14.1 | 0.9 |
| M | 19,443 | 163 | 728 | 2.6 | 13.8 | 13.8 | 14.8 | 1.0 |
| N | 20,550 | 150 | 695 | 2.7 | 16.1 | 16.1 | 16.9 | 0.8 |
| O | 20,943 | 254 | 895 | 2.1 | 16.8 | 16.8 | 17.7 | 0.9 |
| P | 21,616 | 475 | 1,745 | 1.0 | 17.4 | 17.4 | 18.4 | 1.0 |

¹Floodway not computed/shown for this cross section

²Feet above mouth

³Combined coastal and riverine effects from Caloosahatchee River and Billy Creek

⁴Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevations

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BILLY CREEK

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 2,085 | 30 | 87 | 5.6 | * | 3.2 ² | 3.2 | 0.0 |
| B | 2,315 | 70 | 465 | 1.0 | 11.0 | 11.0 | 11.0 | 0.0 |
| C | 3,062 | 50 | 226 | 1.9 | 11.3 | 11.3 | 11.3 | 0.0 |
| D | 3,927 | 57 | 233 | 1.8 | 11.5 | 11.5 | 11.5 | 0.0 |
| E | 4,549 | 62 | 242 | 1.6 | 11.7 | 11.7 | 11.7 | 0.0 |
| F | 5,018 | 50 | 210 | 1.8 | 11.9 | 11.9 | 11.9 | 0.0 |
| G | 5,866 | 60 | 211 | 1.7 | 12.2 | 12.2 | 12.2 | 0.0 |
| H | 6,325 | 50 | 306 | 1.1 | 12.3 | 12.3 | 12.3 | 0.0 |
| I | 6,825 | 40 | 212 | 1.4 | 12.4 | 12.4 | 12.4 | 0.0 |
| J | 7,712 | 56 | 297 | 0.8 | 12.6 | 12.6 | 12.6 | 0.0 |
| K | 8,966 | 60 | 290 | 0.4 | 12.7 | 12.7 | 12.7 | 0.0 |
| L | 9,631 | 60 | 287 | 0.3 | 12.7 | 12.7 | 12.7 | 0.0 |
| M | 10,271 | 40 | 161 | 0.2 | 12.7 | 12.7 | 12.7 | 0.0 |

¹Feet above mouth

²Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: CARRELL CANAL

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|----------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ² | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A ¹ | 0 | N/A | N/A | N/A | * | -0.2 ³ | N/A | N/A |
| B ¹ | 1,300 | N/A | N/A | N/A | * | 0.9 ³ | N/A | N/A |
| C ¹ | 3,600 | N/A | N/A | N/A | * | 1.6 ³ | N/A | N/A |
| D ¹ | 4,800 | N/A | N/A | N/A | * | 1.8 ³ | N/A | N/A |
| E ¹ | 5,817 | N/A | N/A | N/A | * | 2.8 ³ | N/A | N/A |
| F ¹ | 7,292 | N/A | N/A | N/A | * | 5.5 ³ | N/A | N/A |
| G | 8,084 | 62 | 293 | 2.1 | * | 6.4 ³ | 7.3 | 0.9 |
| H | 12,179 | 62 | 158 | 3.4 | 14.2 | 14.2 | 14.8 | 0.6 |
| I | 13,264 | 205 | 564 | 0.9 | 14.8 | 14.8 | 15.7 | 0.9 |
| J | 13,893 | 43 | 299 | 1.4 | 15.4 | 15.4 | 16.2 | 0.8 |
| K | 14,412 | 47 | 319 | 1.3 | 15.8 | 15.8 | 16.6 | 0.8 |
| L | 15,141 | 195 | 1,499 | 0.2 | 19.5 | 19.5 | 19.9 | 0.4 |
| M | 15,751 | 27 | 180 | 1.8 | 19.5 | 19.5 | 19.9 | 0.4 |
| N | 16,103 | 138 | 598 | 0.5 | 19.5 | 19.5 | 20.2 | 0.7 |
| O | 17,465 | 119 | 395 | 0.5 | 19.5 | 19.5 | 20.4 | 0.9 |
| P | 18,819 | 35 | 127 | 0.4 | 19.5 | 19.5 | 20.4 | 0.9 |
| Q | 20,043 | 36 | 158 | 0.3 | 19.5 | 19.5 | 20.4 | 0.9 |
| R | 20,758 | 43 | 120 | 0.4 | 19.5 | 19.5 | 20.5 | 1.0 |

¹Floodway not computed/shown for this cross section

²Feet above mouth

³Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: CHAPEL BRANCH CREEK

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 0 | 68 | 427 | 7.3 | * | 2.2 ³ | 3.2 | 1.0 |
| B | 1,627 | 376 | 1,218 | 2.6 | * | 5.9 ³ | 6.3 | 0.4 |
| C | 4,590 | 54 | 579 | 4.9 | 10.1 ² | 8.6 ³ | 9.6 | 1.0 |
| D | 5,290 | 706 | 2,928 | 1.0 | 10.4 ² | 9.7 ³ | 10.6 | 0.9 |
| E | 5,620 | 470 | 2,107 | 1.3 | 10.5 ² | 9.9 ³ | 10.8 | 0.9 |
| F | 6,780 | 1,110 | 2,931 | 1.0 | 11.1 ² | 10.8 ³ | 11.8 | 1.0 |
| G | 7,531 | 778 | 3,158 | 0.9 | 11.5 ² | 11.3 ³ | 12.3 | 1.0 |
| H | 8,111 | 1,479 | 5,538 | 0.5 | 11.7 ² | 11.6 ³ | 12.6 | 1.0 |
| I | 8,622 | 894 | 3,798 | 0.7 | 12.8 | 12.8 | 13.5 | 0.7 |
| J | 9,414 | 743 | 6,229 | 0.4 | 12.8 | 12.8 | 13.5 | 0.7 |
| K | 10,614 | 822 | 3,534 | 0.8 | 13.0 | 13.0 | 13.7 | 0.7 |
| L | 11,594 | 180 | 1,202 | 2.2 | 13.6 | 13.6 | 14.4 | 0.8 |
| M | 13,134 | 200 | 1,513 | 1.8 | 15.2 | 15.2 | 16.0 | 0.8 |
| N | 14,134 | 35 | 391 | 6.9 | 16.5 | 16.5 | 17.1 | 0.6 |
| O | 15,034 | 148 | 1,922 | 1.4 | 17.6 | 17.6 | 18.6 | 1.0 |
| P | 16,774 | 136 | 1,810 | 1.5 | 17.7 | 17.7 | 18.7 | 1.0 |
| Q | 18,394 | 879 | 9,582 | 0.3 | 17.8 | 17.8 | 18.8 | 1.0 |
| R | 20,275 | 363 | 4,362 | 0.6 | 17.9 | 17.9 | 18.9 | 1.0 |

¹Feet above mouth

²Combined coastal and riverine effects from Caloosahatchee River and Cypress Creek

³Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: CYPRESS CREEK

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|----------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ² | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A ¹ | 3,100 | N/A | N/A | N/A | * | 1.0 ⁴ | N/A | N/A |
| B ¹ | 4,157 | N/A | N/A | N/A | * | 1.1 ⁴ | N/A | N/A |
| C | 5,513 | 60 | 382 | 4.5 | * | 2.1 ⁴ | 2.5 | 0.4 |
| D | 7,013 | 241 | 1,020 | 1.7 | * | 3.5 ⁴ | 4.1 | 0.6 |
| E | 8,513 | 47 | 384 | 4.5 | * | 4.6 ⁴ | 5.2 | 0.6 |
| F | 10,243 | 100 | 829 | 2.1 | 9.3 ³ | 7.0 ⁴ | 7.4 | 0.4 |
| G | 11,751 | 226 | 789 | 2.0 | 9.7 ³ | 9.5 ⁴ | 10.1 | 0.6 |
| H | 12,336 | 81 | 613 | 2.5 | 9.8 ³ | 9.6 ⁴ | 10.4 | 0.8 |
| I | 13,636 | 50 | 440 | 3.5 | 10.2 ³ | 10.0 ⁴ | 10.9 | 0.9 |
| J | 16,236 | 88 | 391 | 4.0 | 12.9 ³ | 12.8 ⁴ | 13.2 | 0.4 |
| K | 18,036 | 108 | 744 | 2.1 | 14.4 | 14.4 | 14.6 | 0.2 |
| L | 19,178 | 341 | 885 | 1.8 | 14.9 | 14.9 | 15.4 | 0.5 |
| M | 19,587 | 94 | 399 | 3.9 | 15.1 | 15.1 | 15.7 | 0.6 |
| N | 20,563 | 63 | 411 | 3.8 | 15.8 | 15.8 | 16.7 | 0.9 |
| O | 20,993 | 89 | 557 | 2.8 | 16.2 | 16.2 | 17.0 | 0.8 |
| P | 22,238 | 789 | 826 | 1.9 | 16.9 | 16.9 | 17.8 | 0.9 |
| Q | 24,338 | 179 | 619 | 2.5 | 18.3 | 18.3 | 19.2 | 0.9 |
| R | 25,674 | 96 | 479 | 3.2 | 19.9 | 19.9 | 20.9 | 1.0 |
| S | 27,063 | 1,309 | 6,078 | 0.3 | 22.0 | 22.0 | 22.9 | 0.9 |
| T | 27,773 | 1,686 | 5,372 | 0.3 | 22.1 | 22.1 | 22.9 | 0.8 |
| U | 31,384 | 2,322 | 4,338 | 0.4 | 23.5 | 23.5 | 23.8 | 0.3 |
| V | 32,060 | 3,447 | 3,388 | 0.5 | 23.6 | 23.6 | 24.1 | 0.5 |
| W | 33,370 | 1,061 | 2,317 | 0.7 | 23.6 | 23.6 | 24.3 | 0.7 |
| X | 36,170 | 1,247 | 1,588 | 1.0 | 24.4 | 24.4 | 25.4 | 1.0 |

¹Floodway not computed/shown for this cross section

²Feet above mouth

³Combined coastal and riverine effects from Caloosahatchee River and Daughtrey Creek

⁴Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

| | | | |
|-----------------------------------------|--------------------------------------------|--|----------------------|
| TABLE 23 | FEDERAL EMERGENCY MANAGEMENT AGENCY | | FLOODWAY DATA |
| | LEE COUNTY, FLORIDA | | |
| | AND INCORPORATED AREAS | | |
| FLOODING SOURCE: DAUGHTREY CREEK | | | |

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 0 | 109 | 493 | 1.6 | * | 3.5 ³ | 4.5 | 1.0 |
| B | 687 | 38 | 299 | 2.4 | * | 5.3 ³ | 6.2 | 0.9 |
| C | 1,914 | 80 | 512 | 1.4 | 9.4 ² | 7.0 ³ | 8.0 | 1.0 |
| D | 3,369 | 171 | 922 | 0.8 | 10.0 ² | 10.0 ³ | 10.5 | 0.5 |
| E | 4,352 | 224 | 513 | 1.4 | 11.3 | 11.3 | 12.3 | 1.0 |
| F | 5,352 | 195 | 528 | 1.3 | 12.6 | 12.6 | 13.5 | 0.9 |
| G | 6,652 | 410 | 1,140 | 0.6 | 13.3 | 13.3 | 14.2 | 0.9 |
| H | 7,652 | 130 | 279 | 2.5 | 14.6 | 14.6 | 15.5 | 0.9 |
| I | 9,952 | 514 | 1,344 | 0.5 | 15.6 | 15.6 | 16.6 | 1.0 |
| J | 10,796 | 316 | 510 | 1.4 | 16.6 | 16.6 | 17.4 | 0.8 |
| K | 11,122 | 765 | 1,657 | 0.4 | 16.8 | 16.8 | 17.7 | 0.9 |
| L | 12,412 | 200 | 567 | 1.3 | 19.5 | 19.5 | 19.9 | 0.4 |
| M | 13,042 | 94 | 641 | 1.1 | 20.0 | 20.0 | 20.6 | 0.6 |
| N | 14,389 | 2,262 | 6,114 | 0.1 | 20.1 | 20.1 | 20.7 | 0.6 |
| O | 15,117 | 370 | 751 | 0.8 | 20.1 | 20.1 | 20.9 | 0.8 |
| P | 15,305 | 1,137 | 3,179 | 0.2 | 20.2 | 20.2 | 21.0 | 0.8 |
| Q | 15,808 | 582 | 1,853 | 0.3 | 20.2 | 20.2 | 21.1 | 0.9 |
| R | 16,359 | 292 | 639 | 1.0 | 21.2 | 21.2 | 21.7 | 0.5 |
| S | 16,821 | 1,924 | 3,619 | 0.2 | 21.2 | 21.2 | 21.8 | 0.6 |
| T | 18,154 | 235 | 554 | 1.1 | 21.6 | 21.6 | 22.4 | 0.8 |
| U | 20,668 | 410 | 1,334 | 0.5 | 22.7 | 22.7 | 23.7 | 1.0 |
| V | 22,453 | 997 | 1,831 | 0.3 | 22.8 | 22.8 | 23.8 | 1.0 |

¹Feet above mouth

²Combined coastal and riverine effects from Caloosahatchee River and East Branch Daughtrey Creek

³Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: EAST BRANCH DAUGHTREY CREEK

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 0 | 212 | 256 | 4.7 | * | 3.2 ³ | 3.9 | 0.7 |
| B | 1,130 | 212 | 673 | 1.8 | * | 6.8 ³ | 7.8 | 1.0 |
| C | 1,780 | 238 | 994 | 1.2 | 8.4 ² | 7.4 ³ | 8.4 | 1.0 |
| D | 2,180 | 249 | 800 | 1.5 | 11.0 ² | 11.0 ³ | 11.9 | 0.9 |
| E | 3,347 | 50 | 325 | 3.1 | 12.6 | 12.6 | 13.4 | 0.8 |
| F | 3,844 | 62 | 419 | 2.4 | 13.0 | 13.0 | 13.8 | 0.8 |
| G | 5,126 | 122 | 351 | 2.9 | 14.1 | 14.1 | 14.8 | 0.7 |
| H | 7,950 | 86 | 461 | 1.9 | 15.1 | 15.1 | 16.1 | 1.0 |
| I | 10,429 | 237 | 531 | 1.4 | 15.6 | 15.6 | 16.5 | 0.9 |
| J | 12,180 | 148 | 325 | 1.8 | 16.9 | 16.9 | 17.5 | 0.6 |
| K | 13,148 | 81 | 280 | 2.1 | 17.9 | 17.9 | 18.2 | 0.3 |
| L | 14,358 | 228 | 749 | 0.7 | 18.0 | 18.0 | 18.8 | 0.8 |
| M | 15,656 | 72 | 418 | 1.1 | 18.1 | 18.1 | 19.0 | 0.9 |

¹Feet above mouth

²Combined coastal and riverine effects from Caloosahatchee River and East Branch Yellow Fever Creek

³Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: EAST BRANCH YELLOW FEVER CREEK

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 550 | 165 | 1,352 | 2.2 | * | 4.4 ³ | 4.4 | 0.0 |
| B | 2,050 | 170 | 1,286 | 2.4 | * | 4.7 ³ | 4.8 | 0.1 |
| C | 2,800 | 80 | 783 | 3.9 | * | 4.8 ³ | 5.1 | 0.3 |
| D | 3,800 | 195 | 1,963 | 1.4 | * | 4.9 ³ | 5.4 | 0.5 |
| E | 4,600 | 130 | 1,148 | 2.3 | * | 5.0 ³ | 5.5 | 0.5 |
| F | 5,100 | 150 | 1,413 | 1.9 | * | 5.1 ³ | 5.6 | 0.5 |
| G | 6,281 | 120 | 1,226 | 2.2 | 10.6 ² | 5.3 ³ | 5.8 | 0.5 |
| H | 8,861 | 231 | 1,497 | 1.6 | 10.7 ² | 6.1 ³ | 6.5 | 0.4 |
| I | 9,911 | 200 | 1,505 | 1.6 | 10.7 ² | 6.3 ³ | 6.7 | 0.4 |
| J | 11,024 | 94 | 1,018 | 2.4 | 10.7 ² | 6.4 ³ | 6.8 | 0.4 |
| K | 13,511 | 325 | 1,874 | 1.3 | 10.8 ² | 6.9 ³ | 7.3 | 0.4 |
| L | 14,511 | 185 | 1,020 | 2.4 | 10.8 ² | 7.2 ³ | 7.6 | 0.4 |
| M | 15,745 | 90 | 915 | 2.7 | 10.8 ² | 7.7 ³ | 8.0 | 0.3 |
| N | 17,855 | 64 | 557 | 3.4 | 10.8 ² | 8.3 ³ | 8.6 | 0.3 |
| O | 19,251 | 653 | 1,972 | 1.0 | 10.8 ² | 8.9 ³ | 9.1 | 0.2 |
| P | 20,265 | 137 | 412 | 4.6 | 11.6 ² | 11.0 ³ | 11.0 | 0.0 |
| Q | 21,188 | 200 | 763 | 1.8 | 13.1 ² | 12.9 ³ | 13.2 | 0.3 |
| R | 23,311 | 750 | 1,966 | 0.7 | 13.9 ² | 13.9 ³ | 14.7 | 0.8 |
| S | 24,040 | 469 | 1,328 | 0.8 | 14.3 ² | 14.3 ³ | 14.9 | 0.6 |
| T | 25,308 | 265 | 700 | 1.5 | 15.7 ² | 15.7 ³ | 16.3 | 0.6 |

¹Feet above mouth

²Combined coastal and riverine effects from Estero Bay and Estero River

³Elevation computed without consideration of backwater effects from Estero Bay

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

REVISED TO
REFLECT LOMR
EFFECTIVE: July 15, 2024

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: ESTERO RIVER

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| U | 26,095 | 781 | 1,869 | 5.5 | 17.2 ² | 16.4 ³ | 16.4 | 0.0 |
| V | 27,820 | 2,670 | 9,667 | 0.5 | 18.5 | 18.5 | 19.1 | 0.6 |
| W | 28,840 | 818 | 4,426 | 1.0 | 19.6 | 19.6 | 20.4 | 0.8 |
| X | 29,610 | 1,653 | 8,303 | 0.6 | 19.9 | 19.9 | 20.8 | 0.5 |

¹Feet above mouth

REVISED DATA

REVISED TO
REFLECT LOMR
EFFECTIVE: July 15, 2024

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
LEE COUNTY, FLORIDA
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: ESTERO RIVER

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 0 | 90 | 470 | 2.8 | * | 1.2 ³ | 2.2 | 1.0 |
| B | 804 | 44 | 226 | 3.9 | * | 3.3 ³ | 3.6 | 0.3 |
| C | 1,134 | 40 | 248 | 3.6 | * | 3.8 ³ | 4.0 | 0.2 |
| D | 2,184 | 19 | 115 | 7.7 | 9.3 ² | 6.5 ³ | 7.2 | 0.7 |
| E | 2,697 | 26 | 262 | 3.4 | 9.5 ² | 8.2 ³ | 9.0 | 0.8 |
| F | 4,201 | 130 | 372 | 1.8 | 10.9 ² | 10.7 ³ | 11.1 | 0.4 |
| G | 5,430 | 17 | 105 | 6.4 | 14.4 | 14.4 | 14.7 | 0.3 |

¹Feet above mouth

²Combined coastal and riverine effects from Caloosahatchee River and Fichter Creek

³Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: FICHTER CREEK

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 1,722 | 40 | 280 | 2.1 | 9.6 ² | 9.0 ³ | 9.7 | 0.7 |
| B | 2,622 | 36 | 171 | 3.2 | 9.8 ² | 9.3 ³ | 10.0 | 0.7 |
| C | 3,572 | 35 | 121 | 4.5 | 10.8 ² | 10.5 ³ | 10.8 | 0.3 |
| D | 4,207 | 38 | 160 | 3.4 | 12.1 ² | 12.1 ³ | 12.3 | 0.2 |
| E | 4,802 | 32 | 133 | 3.8 | 12.6 | 12.6 | 12.8 | 0.2 |
| F | 5,174 | 31 | 140 | 1.4 | 13.5 | 13.5 | 13.7 | 0.2 |
| G | 5,787 | 35 | 136 | 1.4 | 13.7 | 13.7 | 13.9 | 0.2 |
| H | 6,892 | 38 | 161 | 1.2 | 13.8 | 13.8 | 14.0 | 0.2 |
| I | 8,047 | 35 | 113 | 1.7 | 14.9 | 14.9 | 15.0 | 1.0 |
| J | 8,949 | 50 | 160 | 1.2 | 16.0 | 16.0 | 16.8 | 0.8 |
| K | 9,283 | 65 | 195 | 0.8 | 16.1 | 16.1 | 17.1 | 1.0 |
| L | 9,564 | 65 | 118 | 0.8 | 16.9 | 16.9 | 17.4 | 0.5 |
| M | 9,874 | 65 | 120 | 0.7 | 16.9 | 16.9 | 17.5 | 0.6 |
| N | 10,199 | 65 | 128 | 0.7 | 16.9 | 16.9 | 17.7 | 0.8 |
| O | 10,445 | 20 | 46 | 0.7 | 16.9 | 16.9 | 17.7 | 0.8 |
| P | 10,944 | 20 | 47 | 0.6 | 17.4 | 17.4 | 17.9 | 0.5 |
| Q | 11,248 | 21 | 38 | 0.8 | 17.6 | 17.6 | 18.2 | 0.6 |

¹Feet above mouth

²Combined coastal and riverine effects from Caloosahatchee River and Ford Street Canal

³Elevation computed without consideration of backwater effects from Caloosahatchee River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: FORD STREET CANAL

| LOCATION | | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|-----------------------------|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| MBR NO. (I,J) | CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| | A | 1,448 | 709 | 1,412 | 1.0 | * | 1.6 ⁴ | 1.8 | 0.2 |
| | B | 4,078 | 922 | 1,322 | 1.1 | * | 1.9 ⁴ | 2.1 | 0.2 |
| | C | 6,189 | 950 | 992 | 1.5 | * | 3.2 ⁴ | 3.2 | 0.0 |
| | D | 7,364 | 185 | 490 | 3.0 | * | 4.1 ⁴ | 4.1 | 0.0 |
| | E | 9,546 | 565 | 836 | 1.7 | * | 7.8 ⁴ | 7.8 | 0.0 |
| | F | 11,726 | 455 | 1,142 | 1.3 | 10.2 ² | 8.8 ⁴ | 8.8 | 0.0 |
| | G | 13,026 | 900 | 2,570 | 0.6 | 10.3 ² | 9.0 ⁴ | 9.0 | 0.0 |
| | H | 14,960 | 660 | 1,303 | 1.1 | 10.4 ² | 9.7 ⁴ | 9.8 | 0.1 |
| | I | 16,124 | 470 | 1,115 | 1.3 | 10.5 ² | 10.0 ⁴ | 10.1 | 0.1 |
| | J | 17,217 | 118 | 531 | 2.7 | 13.7 ² | 13.7 ⁴ | 13.9 | 0.2 |
| | K | 17,380 | 231 | 1,262 | 1.0 | 13.8 ² | 13.7 ⁴ | 14.3 | 0.6 |
| | L | 18,505 | 460 | 1,704 | 0.7 | 13.9 ² | 13.8 ⁴ | 14.4 | 0.6 |
| 1515 (85,2) 1516 (86,2) | M | 19,891 | 400 | 1,551 | 0.8 | 14.1 ³ | 13.9 | 14.5 | 0.6 |
| 1515 (85,2) 1516 (86,2) | N | 20,007 | 400 | 1,678 | 1.6 | 14.1 ³ | 14.8 | 15.4 | 0.6 |
| 1631 (85,2) | O | 21,287 | 500 | 1,479 | 0.8 | 14.1 ³ | 14.8 | 15.7 | 0.9 |
| 1746 (84,2) 1747 (85,20) | P | 22,635 | 500 | 2,526 | 0.5 | 14.7 ³ | 16.4 | 17.1 | 0.7 |

¹Feet above mouth

²Combined coastal and riverine effects from Estero Bay and Halfway Creek

³The regulatory elevations were defined with the S2DMM 2D model and should be used for flood insurance and floodplain management decisions. The HEC-RAS 1D model was used to define the floodway width and the "Without Floodway" elevations do not agree with S2DMM model.

⁴Elevation computed without consideration of backwater effects from Estero River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

| | | |
|----------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| TABLE 23 | FEDERAL EMERGENCY MANAGEMENT AGENCY LEE COUNTY, FLORIDA AND INCORPORATED AREAS | FLOODWAY DATA FLOODING SOURCE: HALFWAY CREEK |
| | | |

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 178 | 68 | 513 | 0.8 | * | 4.0 ² | 4.5 | 0.5 |
| B | 1,068 | 18 | 96 | 2.0 | * | 4.0 ² | 4.7 | 0.7 |
| C | 1,548 | 18 | 76 | 2.6 | * | 4.3 ² | 5.2 | 0.9 |
| D | 3,238 | 108 | 191 | 1.0 | * | 6.6 ² | 7.5 | 0.9 |
| E | 3,584 | 24 | 67 | 2.9 | * | 7.1 ² | 8.0 | 0.9 |
| F | 3,765 | 402 | 2,289 | 0.1 | * | 8.2 ² | 8.4 | 0.2 |
| G | 4,065 | 28 | 58 | 3.4 | * | 8.6 ² | 8.8 | 0.2 |
| H | 4,322 | 54 | 212 | 0.9 | 10.2 | 10.2 | 11.1 | 0.9 |
| I | 5,195 | 28 | 116 | 1.7 | 12.7 | 12.7 | 13.0 | 0.3 |

¹Feet above mouth

²Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: HALLS CREEK

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|----------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ² | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A ¹ | 1,000 | N/A | N/A | N/A | * | 0.0 ⁴ | N/A | N/A |
| B | 2,696 | 91 | 814 | 3.3 | * | 1.6 ⁴ | 2.2 | 0.6 |
| C | 4,136 | 226 | 1,943 | 1.2 | * | 2.1 ⁴ | 2.6 | 0.5 |
| D | 6,005 | 140 | 1,133 | 2.0 | * | 2.3 ⁴ | 2.7 | 0.4 |
| E | 7,435 | 198 | 1,057 | 0.5 | * | 2.5 ⁴ | 2.9 | 0.4 |
| F | 8,635 | 237 | 2,585 | 0.2 | * | 2.5 ⁴ | 2.9 | 0.4 |
| G | 9,935 | 153 | 991 | 0.5 | * | 2.5 ⁴ | 2.9 | 0.4 |
| H | 12,135 | 134 | 1,164 | 0.4 | * | 2.5 ⁴ | 2.9 | 0.4 |
| I | 13,310 | 68 | 524 | 1.0 | * | 2.5 ⁴ | 2.9 | 0.4 |
| J | 14,567 | 188 | 503 | 1.0 | * | 5.0 ⁴ | 5.9 | 0.9 |
| K | 15,626 | 90 | 288 | 1.3 | * | 5.5 ⁴ | 6.3 | 0.8 |
| L | 16,350 | 47 | 162 | 1.2 | * | 5.9 ⁴ | 6.8 | 0.9 |
| M | 17,028 | 29 | 203 | 1.0 | 8.4 ³ | 6.5 ⁴ | 7.4 | 0.9 |
| N | 17,409 | 22 | 216 | 0.9 | 10.8 | 10.8 | 11.4 | 0.6 |
| O | 19,593 | 50 | 221 | 0.7 | 10.8 | 10.8 | 11.5 | 0.7 |

¹Floodway not computed/shown for this cross section

²Feet above mouth

³Combined coastal and riverine effects from Caloosahatchee River and Hancock Creek

⁴Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: HANCOCK CREEK

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|----------------|-----------------------|-------------------------------|-------------------------|--------------------------|--------------------------------------------------------------|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ² | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A ¹ | 0 | N/A | N/A | N/A | * | 1.7 ⁴ | N/A | N/A |
| B ¹ | 4,600 | N/A | N/A | N/A | * | 1.8 ⁴ | N/A | N/A |
| C ¹ | 8,600 | N/A | N/A | N/A | * | 1.8 ⁴ | N/A | N/A |
| D | 11,100 | 2,190 / 1,630 ³ | 7,573 | 0.3 | * | 1.9 ⁴ | 2.8 | 0.9 |
| E | 13,350 | 324 | 2,280 | 1.0 | * | 2.0 ⁴ | 2.9 | 0.9 |
| F | 17,100 | 250 | 1,725 | 0.8 | * | 2.2 ⁴ | 3.1 | 0.9 |
| G | 21,600 | 165 | 1,213 | 1.1 | * | 2.4 ⁴ | 3.3 | 0.9 |
| H | 24,300 | 538 | 644 | 2.1 | * | 2.9 ⁴ | 3.9 | 1.0 |
| I | 27,470 | 400 | 2,119 | 0.3 | * | 4.8 ⁴ | 5.3 | 0.5 |
| J | 28,539 | 158 | 1,367 | 0.0 | * | 5.2 ⁴ | 5.7 | 0.5 |
| K | 30,658 | 2,194 | 8,638 | 0.0 | * | 5.2 ⁴ | 5.7 | 0.5 |
| L | 31,176 | 1,633 | 5,601 | 0.0 | * | 5.2 ⁴ | 5.7 | 0.5 |
| M | 31,807 | 1,970 | 6,160 | 0.0 | * | 5.2 ⁴ | 5.7 | 0.5 |
| N | 34,054 | 745 | 6,664 | 0.0 | * | 5.2 ⁴ | 5.7 | 0.5 |
| O | 35,987 | 40 | 120 | 0.4 | * | 5.3 ⁴ | 5.8 | 0.5 |
| P | 36,697 | 57 | 134 | 0.2 | * | 5.3 ⁴ | 5.8 | 0.5 |
| Q | 37,526 | 38 | 82 | 0.3 | * | 5.3 ⁴ | 5.8 | 0.5 |

¹Floodway not computed/shown for this cross section

²Feet above mouth

³Total width / width shown

⁴Elevation computed without consideration of backwater effects from Estero Bay

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: HENDRY CREEK

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 3,855 | 632 | 2,081 | 0.3 | * | 3.1 ² | 4.0 | 0.9 |
| B | 5,405 | 54 | 376 | 1.8 | * | 6.9 ² | 6.9 | 0.0 |
| C | 10,372 | 50 | 148 | 0.2 | * | 7.0 ² | 7.3 | 0.3 |

¹Feet above mouth

²Elevation computed without consideration of backwater effects from Estero Bay

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: HENDRY CREEK WEST

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 0 | 222 | 1,296 | 4.4 | * | 2.2 ³ | 3.2 | 1.0 |
| B | 991 | 90 | 873 | 6.5 | * | 5.0 ³ | 5.3 | 0.3 |
| C | 1,667 | 144 | 941 | 6.1 | * | 6.2 ³ | 6.7 | 0.5 |
| D | 2,891 | 318 | 2,284 | 2.3 | * | 7.7 ³ | 8.2 | 0.5 |
| E | 4,391 | 945 | 5,239 | 1.0 | * | 8.2 ³ | 8.9 | 0.7 |
| F | 5,691 | 1,118 | 4,348 | 1.2 | 9.7 ² | 8.5 ³ | 9.2 | 0.7 |
| G | 7,091 | 196 | 1,543 | 3.4 | 9.9 ² | 9.0 ³ | 9.7 | 0.7 |
| H | 8,813 | 1,006 | 4,551 | 1.2 | 10.2 ² | 9.6 ³ | 10.5 | 0.9 |

¹Feet above mouth

²Combined coastal and riverine effects from Caloosahatchee River and Hickey Creek

³Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: HICKEY CREEK

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| I | 11,623 | 170 | 1,134 | 4.3 | 15.4 | 15.4 | 15.7 | 0.3 |
| J | 27,006 | 96 | 959 | 2.1 | 21.7 | 21.7 | 22.3 | 0.6 |
| K | 32,808 | 64 | 837 | 1.0 | 22.1 | 22.1 | 22.7 | 0.6 |

¹Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: HICKEY CREEK DRAINAGEWAY

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|---------------------------|-------------------------|--------------------------|--------------------------------------------------------------|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) ² | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 2,000 | 130 | 927 | 5.3 | * | 1.3 ³ | 1.3 | 0.0 |
| B | 4,000 | 199 | 1,706 | 2.9 | * | 1.7 ³ | 2.0 | 0.3 |
| C | 5,000 | 210 | 1,507 | 3.3 | * | 1.9 ³ | 2.2 | 0.3 |
| D | 7,000 | 228 | 1,812 | 2.7 | * | 2.3 ³ | 2.6 | 0.3 |
| E | 10,000 | 280 | 2,033 | 2.4 | * | 2.8 ³ | 3.0 | 0.2 |
| F | 11,000 | 240 | 2,205 | 2.2 | * | 2.9 ³ | 3.1 | 0.2 |
| G | 13,250 | 255 | 1,854 | 2.7 | * | 3.2 ³ | 3.4 | 0.2 |
| H | 13,450 | 260 | 1,851 | 2.7 | * | 3.2 ³ | 3.4 | 0.2 |
| I | 15,000 | 150 | 1,441 | 3.4 | * | 3.4 ³ | 3.6 | 0.2 |
| J | 22,000 | 110 | 1,079 | 2.8 | * | 5.2 ³ | 5.6 | 0.4 |
| K | 23,000 | 150 | 1,060 | 2.9 | * | 5.6 ³ | 6.0 | 0.4 |
| L | 23,750 | 150 | 1,327 | 2.3 | * | 5.9 ³ | 6.3 | 0.4 |
| M | 24,150 | 150 | 1,138 | 2.7 | * | 6.4 ³ | 6.8 | 0.4 |
| N | 26,000 | 310 | 1,441 | 2.1 | * | 7.3 ³ | 8.0 | 0.7 |
| O | 27,600 | 296 | 2,081 | 1.5 | * | 8.3 ³ | 8.8 | 0.5 |
| P | 28,600 | 333 | 1,551 | 2.0 | 10.0 | 9.1 | 9.5 | 0.4 |
| Q | 32,700 | 1,200 | 5,407 | 0.6 | 11.8 | 11.8 | 12.3 | 0.5 |
| R | 33,700 | 1,000 | 5,532 | 0.8 | 12.1 | 12.1 | 12.6 | 0.5 |
| S | 35,000 | 1,140 | 6,961 | 0.8 | 12.7 | 12.7 | 13.4 | 0.7 |
| T | 37,491 | 1,275 | 5,870 | 1.1 | 13.4 | 13.4 | 14.4 | 1.0 |
| U | 37,820 | 1,500 | 7,520 | 1.5 | 13.7 | 13.7 | 14.6 | 0.9 |
| V | 40,312 | 1,600 | 4,254 | 0.7 | 14.8 | 14.8 | 15.3 | 0.5 |
| W | 43,174 | 1,500 | 6,099 | 0.5 | 15.9 | 15.9 | 16.3 | 0.4 |

¹Feet above mouth

²Value is inaccurate, as the floodway has been adjusted in this area to reflect more detailed and up-to-date stream channel configuration

³Elevation computed without consideration of backwater effects from Estero Bay

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

| | | |
|----------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| TABLE 23 | FEDERAL EMERGENCY MANAGEMENT AGENCY LEE COUNTY, FLORIDA AND INCORPORATED AREAS | FLOODWAY DATA FLOODING SOURCE: IMPERIAL RIVER |
|----------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|----------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ² | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A ¹ | 0 | N/A | N/A | N/A | * | 2.5 ³ | N/A | N/A |
| B | 604 | 334 | 848 | 1.3 | * | 7.5 ³ | 7.9 | 0.4 |
| C | 754 | 278 | 1,726 | 0.6 | * | 7.6 ³ | 8.2 | 0.6 |
| D | 1,107 | 247 | 1,254 | 0.8 | * | 7.6 ³ | 8.2 | 0.6 |
| E | 1,217 | 226 | 2,068 | 0.4 | * | 7.6 ³ | 8.2 | 0.6 |
| F | 2,047 | 147 | 1,051 | 0.7 | * | 7.6 ³ | 8.2 | 0.6 |
| G | 2,436 | 129 | 516 | 1.2 | * | 7.6 ³ | 8.2 | 0.6 |
| H | 2,948 | 153 | 682 | 0.5 | * | 7.6 ³ | 8.3 | 0.7 |
| I | 3,593 | 147 | 674 | 1.5 | * | 7.6 ³ | 8.4 | 0.8 |
| J | 4,880 | 147 | 387 | 0.6 | * | 8.1 ³ | 9.0 | 0.9 |

¹Floodway not computed/shown for this cross section

²Feet above mouth

³Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: KICKAPOO CREEK

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 0 | 55 | 194 | 2.7 | 8.3 | 8.3 | 8.3 | 0.0 |
| B | 970 | 56 | 295 | 1.6 | 8.8 | 8.8 | 8.8 | 0.0 |
| C | 2,270 | 61 | 305 | 1.5 | 9.1 | 9.1 | 9.1 | 0.0 |
| D | 3,930 | 42 | 190 | 1.7 | 9.4 | 9.4 | 9.4 | 0.0 |
| E | 5,080 | 40 | 204 | 1.5 | 9.8 | 9.8 | 9.8 | 0.0 |
| F | 6,890 | 52 | 232 | 1.4 | 10.4 | 10.4 | 10.5 | 0.1 |
| G | 7,915 | 30 | 154 | 1.9 | 11.1 | 11.1 | 11.3 | 0.2 |
| H | 9,210 | 40 | 196 | 0.6 | 11.6 | 11.6 | 11.8 | 0.2 |
| I | 11,230 | 40 | 131 | 1.0 | 14.0 | 14.0 | 14.0 | 0.0 |
| J | 12,330 | 68 | 274 | 0.1 | 14.0 | 14.0 | 14.0 | 0.0 |
| K | 12,780 | 43 | 171 | 0.2 | 14.0 | 14.0 | 14.0 | 0.0 |
| L | 13,430 | 43 | 184 | 0.2 | 14.0 | 14.0 | 14.0 | 0.0 |

¹Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: L-3 CANAL

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 837 | 68 | 418 | 1.7 | 9.3 ² | 6.0 ³ | 6.4 | 0.4 |
| B | 3,611 | 18 | 126 | 5.1 | 9.4 ² | 7.7 ³ | 8.1 | 0.4 |
| C | 4,225 | 105 | 556 | 1.2 | 11.8 | 11.8 | 12.6 | 0.8 |
| D | 4,679 | 185 | 835 | 0.8 | 11.8 | 11.8 | 12.6 | 0.8 |
| E | 6,569 | 370 | 1,390 | 0.4 | 11.9 | 11.9 | 12.9 | 1.0 |
| F | 8,569 | 445 | 709 | 0.6 | 12.3 | 12.3 | 13.2 | 0.9 |
| G | 10,569 | 250 | 590 | 0.7 | 12.5 | 12.5 | 13.4 | 0.9 |
| H | 10,965 | 80 | 437 | 0.9 | 12.9 | 12.9 | 13.9 | 1.0 |
| I | 11,204 | 60 | 350 | 1.2 | 13.4 | 13.4 | 14.4 | 1.0 |
| J | 11,452 | 100 | 462 | 0.9 | 13.9 | 13.9 | 14.9 | 1.0 |
| K | 12,877 | 700 | 2,513 | 0.2 | 13.9 | 13.9 | 14.9 | 1.0 |

¹Feet above mouth

²Combined coastal and riverine effects from Estero Bay and Leitner Creek

³Elevation computed without consideration of backwater effects from Estero Bay

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: LEITNER CREEK

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|----------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ² | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A ¹ | 0 | N/A | N/A | N/A | * | 0.2 ⁴ | N/A | N/A |
| B ¹ | 380 | N/A | N/A | N/A | * | 2.0 ⁴ | N/A | N/A |
| C | 1,562 | 30 | 134 | 2.8 | * | 6.4 ⁴ | 6.4 | 0.0 |
| D | 1,799 | 36 | 182 | 2.0 | * | 7.1 ⁴ | 7.1 | 0.0 |
| E | 2,527 | 48 | 118 | 2.8 | * | 7.5 ⁴ | 7.5 | 0.0 |
| F | 2,961 | 38 | 134 | 2.5 | * | 8.3 ⁴ | 8.3 | 0.0 |
| G | 4,442 | 34 | 74 | 3.7 | 10.4 ³ | 10.3 ⁴ | 10.3 | 0.0 |
| H | 4,837 | 38 | 135 | 2.0 | 11.0 ³ | 10.9 ⁴ | 10.9 | 0.0 |
| I | 5,467 | 44 | 186 | 1.2 | 11.2 | 11.2 | 11.2 | 0.0 |
| J | 6,127 | 43 | 156 | 1.2 | 11.3 | 11.3 | 11.3 | 0.0 |
| K | 6,787 | 40 | 153 | 1.0 | 11.5 | 11.5 | 11.5 | 0.0 |
| L | 7,452 | 40 | 115 | 1.1 | 11.6 | 11.6 | 11.6 | 0.0 |
| M | 8,137 | 40 | 86 | 1.0 | 11.8 | 11.8 | 11.8 | 0.0 |
| N | 8,766 | 30 | 55 | 0.9 | 12.0 | 12.0 | 12.0 | 0.0 |

¹Floodway not computed/shown for this cross section

²Feet above mouth

³Combined coastal and riverine effects from Caloosahatchee River and Manuels Branch

⁴Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: MANUELS BRANCH

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|----------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ² | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A ¹ | 0 | N/A | N/A | N/A | * | -0.2 ⁴ | N/A | N/A |
| B | 3,000 | 74 | 377 | 1.9 | * | 2.4 ⁴ | 2.8 | 0.4 |
| C | 4,700 | 52 | 307 | 2.3 | * | 3.1 ⁴ | 3.7 | 0.6 |
| D | 7,993 | 63 | 431 | 1.1 | * | 7.5 ⁴ | 7.7 | 0.2 |
| E | 9,268 | 72 | 343 | 1.4 | 9.1 ³ | 7.9 ⁴ | 8.0 | 0.1 |
| F | 11,208 | 50 | 194 | 0.7 | 10.8 ³ | 10.7 ⁴ | 11.0 | 0.3 |
| G | 12,599 | 40 | 208 | 0.7 | 11.9 ³ | 11.8 ⁴ | 12.0 | 0.2 |
| H | 13,910 | 44 | 175 | 0.8 | 11.9 | 11.9 | 12.1 | 0.2 |
| I | 15,237 | 32 | 158 | 0.9 | 12.9 | 12.9 | 13.8 | 0.9 |
| J | 16,298 | 32 | 129 | 1.1 | 13.1 | 13.1 | 13.9 | 0.8 |
| K | 19,194 | 47 | 126 | 1.1 | 16.0 | 16.0 | 16.9 | 0.9 |

¹Floodway not computed/shown for this cross section

²Feet above mouth

³Combined coastal and riverine effects from Caloosahatchee River and Marsh Point Creek

⁴Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: MARSH POINT CREEK

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|-----------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 9,500 | 185 | 1,320 | 1.6 | * | 3.0 ³ | 3.9 | 0.9 |
| B | 10,250 | 201 | 1,267 | 1.6 | * | 3.1 ³ | 4.0 | 0.9 |
| C | 10,353 | 201 | 1,356 | 1.5 | * | 3.1 ³ | 4.0 | 0.9 |
| D | 11,503 | 180 | 1,461 | 1.4 | * | 3.2 ³ | 4.1 | 0.9 |
| E | 13,303 | 110 | 961 | 2.1 | * | 3.5 ³ | 4.4 | 0.9 |
| F | 14,583 | 2,168 | 6,105 | 0.3 | * | 9.9 ³ | 9.9 | 0.0 |
| G | 17,056 | 1,517 | 1,287 | 1.6 | 11.8 ² | 11.7 ³ | 12.0 | 0.3 |
| H | 20,874 | 1,432 | 2,501 | 0.4 | 14.6 | 14.6 | 15.5 | 0.9 |
| I | 22,521 | 1,602 | 2,952 | 0.3 | 14.7 | 14.7 | 15.6 | 0.9 |
| J | 22,743 | 1,642 | 3,046 | 0.3 | 14.7 | 14.7 | 15.6 | 0.9 |
| K | 23,966 | 1,572 | 2,866 | 0.1 | 14.7 | 14.7 | 15.6 | 0.9 |

¹Feet above mouth

²Combined coastal and riverine effects from Estero Bay and Mullock Creek

³Elevation computed without consideration of backwater effects from Estero Bay

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: MULLOCK CREEK

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|-----------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY ² | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 0 | 180 | 1,473 | 0.6 | * | 3.2 ³ | 4.2 | 1.0 |
| B | 1,545 | 224 | 1,055 | 0.5 | * | 3.2 ³ | 4.2 | 1.0 |
| C | 3,945 | 103 | 282 | 2.0 | * | 4.2 ³ | 4.7 | 0.5 |
| D | 6,229 | 853 | 1,539 | 0.4 | * | 5.5 ³ | 5.5 | 0.0 |
| E | 7,143 | 769 | 1,552 | 0.4 | * | 6.1 ³ | 6.3 | 0.2 |
| F | 8,691 | 409 | 1,028 | 0.4 | * | 9.0 ³ | 9.2 | 0.2 |
| G | 8,833 | 410 | 954 | 0.4 | * | 9.4 ³ | 9.6 | 0.2 |
| H | 10,835 | 93 | 211 | 1.8 | 13.0 ² | 12.8 ³ | 12.9 | 0.1 |

¹Feet above mouth

²Combined coastal and riverine effects from Estero Bay and Mullock Creek Tributary

³Elevation computed without consideration of backwater effects from Estero Bay

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

| | | |
|----------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| TABLE 23 | FEDERAL EMERGENCY MANAGEMENT AGENCY LEE COUNTY, FLORIDA AND INCORPORATED AREAS | FLOODWAY DATA |
| | | FLOODING SOURCE: MULLOCK CREEK TRIBUTARY |

| LOCATION | | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|------------------|---------------|----------|
| MBR NO. (I,J) | CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| 1575 (9,23) | A | 5,200 | 46 | 170 | 1.8 | 17.5 ² | 15.1 | 15.5 | 0.3 |
| 1574 (9,24) | B | 5,817 | 55 | 233 | 1.2 | 17.5 ² | 15.3 | 15.6 | 0.3 |
| 1572 (9,26) | C | 6,617 | 55 | 253 | 1.1 | 17.5 ² | 15.4 | 15.7 | 0.3 |
| 1571 (9,27) | D | 7,417 | 53 | 253 | 1.1 | 17.5 ² | 15.5 | 15.7 | 0.2 |
| 1569 (9,29) | E | 8,217 | 56 | 264 | 1.1 | 17.6 ² | 15.5 | 15.8 | 0.3 |
| 1567 (9,31) | F | 9,017 | 53 | 256 | 1.1 | 17.6 ² | 15.6 | 15.8 | 0.2 |
| 1566 (9,32) | G | 9,817 | 56 | 269 | 1.0 | 17.6 ² | 15.6 | 15.9 | 0.3 |

¹Feet above mouth

²The regulatory elevations were defined with the S2DMM 2D model and should be used for flood insurance and floodplain management decisions. The HEC-RAS 1D model was used to define the floodway width and the "Without Floodway" elevations do not agree with S2DMM model.

| | | |
|----------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| TABLE 23 | FEDERAL EMERGENCY MANAGEMENT AGENCY LEE COUNTY, FLORIDA AND INCORPORATED AREAS | FLOODWAY DATA FLOODING SOURCE: NORTH COLONIAL WATERWAY |
|----------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 200 | 70 | 252 | 4.3 | * | -0.4 ³ | 0.3 | 0.7 |
| B | 2,803 | 50 | 295 | 3.3 | * | 4.1 ³ | 4.1 | 0.0 |
| C | 4,537 | 50 | 412 | 2.1 | * | 5.1 ³ | 5.1 | 0.0 |
| D | 6,472 | 33 | 257 | 2.8 | * | 5.8 ³ | 5.9 | 0.1 |
| E | 7,668 | 274 | 958 | 0.5 | * | 6.3 ³ | 6.5 | 0.2 |
| F | 8,778 | 40 | 208 | 2.5 | 9.4 ² | 6.4 ³ | 6.5 | 0.1 |
| G | 12,090 | 30 | 166 | 3.0 | 10.7 ² | 10.4 ³ | 10.9 | 0.5 |
| H | 12,648 | 135 | 1,447 | 0.3 | 11.0 | 11.0 | 12.0 | 1.0 |
| I | 13,270 | 263 | 806 | 0.5 | 11.1 | 11.1 | 12.0 | 0.9 |

¹Feet above mouth

²Combined coastal and riverine effects from Estero Bay and Oak Creek

³Elevation computed without consideration of backwater effects from Estero Bay

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: OAK CREEK

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|----------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ² | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A ¹ | 1,200 | N/A | N/A | N/A | * | 1.9 ⁴ | N/A | N/A |
| B ¹ | 2,300 | N/A | N/A | N/A | * | 2.5 ⁴ | N/A | N/A |
| C | 4,770 | 200 | 1,974 | 5.3 | * | 4.5 ⁴ | 5.1 | 0.6 |
| D | 8,690 | 633 | 5,025 | 1.9 | * | 6.0 ⁴ | 6.7 | 0.7 |
| E | 10,740 | 772 | 5,435 | 1.7 | * | 6.4 ⁴ | 7.1 | 0.7 |
| F | 12,840 | 1,561 | 9,862 | 1.0 | * | 6.8 ⁴ | 7.5 | 0.7 |
| G | 14,640 | 1,559 | 8,838 | 1.1 | * | 7.0 ⁴ | 7.8 | 0.8 |
| H | 15,958 | 2,183 | 11,734 | 0.8 | * | 7.2 ⁴ | 8.0 | 0.8 |
| I | 16,758 | 1,785 | 8,897 | 1.1 | * | 7.3 ⁴ | 8.1 | 0.8 |
| J | 18,258 | 2,590 | 11,744 | 0.8 | * | 7.6 ⁴ | 8.4 | 0.8 |
| K | 19,058 | 2,770 | 14,135 | 0.7 | * | 7.8 ⁴ | 8.7 | 0.9 |
| L | 20,658 | 1,965 | 8,813 | 1.1 | 9.5 ³ | 8.0 ⁴ | 8.9 | 0.9 |
| M | 21,758 | 1,008 | 4,664 | 2.0 | 9.5 ³ | 8.3 ⁴ | 9.2 | 0.9 |
| N | 22,758 | 3,062 | 13,031 | 0.6 | 9.6 ³ | 8.6 ⁴ | 9.5 | 0.9 |
| O | 24,992 | 1,716 | 8,175 | 0.9 | 9.6 ³ | 9.0 ⁴ | 9.9 | 0.9 |
| P | 25,800 | 1,150 | 5,718 | 1.3 | 9.7 ³ | 9.2 ⁴ | 10.1 | 0.9 |
| Q | 27,300 | 2,316 | 11,646 | 0.7 | 10.0 ³ | 9.6 ⁴ | 10.6 | 1.0 |
| R | 28,100 | 3,082 | 14,488 | 0.5 | 10.1 ³ | 9.7 ⁴ | 10.7 | 1.0 |
| S | 29,024 | 123 | 1,099 | 6.9 | 10.2 ³ | 9.7 ⁴ | 10.6 | 0.9 |
| T | 30,507 | 1,751 | 11,314 | 0.7 | 11.4 ³ | 11.1 ⁴ | 11.8 | 0.7 |

¹Floodway not computed/shown for this cross section

²Feet above mouth

³Combined coastal and riverine effects from Caloosahatchee River and Orange River

⁴Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevations

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: ORANGE RIVER

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| U | 32,660 | 1,765 | 8,903 | 0.9 | 12.1 ² | 11.9 ³ | 12.8 | 0.9 |
| V | 34,582 | 3,417 | 18,197 | 0.5 | 12.6 ² | 12.5 ³ | 13.4 | 0.9 |
| W | 35,582 | 1,795 | 12,999 | 0.6 | 12.8 ² | 12.7 ³ | 13.6 | 0.9 |
| X | 36,752 | 1,531 | 7,693 | 1.1 | 13.0 ² | 12.9 ³ | 13.8 | 0.9 |
| Y | 38,542 | 742 | 5,035 | 1.6 | 14.3 ² | 14.3 ³ | 15.2 | 0.9 |
| Z | 39,942 | 1,185 | 8,786 | 0.9 | 15.0 | 15.0 | 16.0 | 1.0 |
| AA | 43,342 | 2,781 | 10,530 | 0.8 | 16.1 | 16.1 | 17.1 | 1.0 |
| AB | 44,050 | 2,263 | 12,982 | 0.6 | 16.8 | 16.8 | 17.7 | 0.9 |
| AC | 44,830 | 2,731 | 13,732 | 0.6 | 17.1 | 17.1 | 18.0 | 0.9 |

¹Feet above mouth

²Combined coastal and riverine effects from Caloosahatchee River and Orange River

³Elevation computed without consideration of backwater effects from Caloosahatchee River

| | | |
|----------|-----------------------------------------------------------------------------------------------------------|--------------------------------------|
| TABLE 23 | FEDERAL EMERGENCY MANAGEMENT AGENCY LEE COUNTY, FLORIDA AND INCORPORATED AREAS | FLOODWAY DATA |
| | | FLOODING SOURCE: ORANGE RIVER |

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|----------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ² | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A ¹ | 0 | N/A | N/A | N/A | * | -0.1 ⁴ | N/A | N/A |
| B ¹ | 1,003 | N/A | N/A | N/A | * | 4.4 ⁴ | N/A | N/A |
| C ¹ | 4,818 | N/A | N/A | N/A | * | 6.3 ⁴ | N/A | N/A |
| D | 6,641 | 125 | 689 | 1.0 | 10.8 ³ | 10.4 ⁴ | 10.9 | 0.5 |
| E | 7,451 | 120 | 388 | 1.8 | 11.3 ³ | 11.1 ⁴ | 11.4 | 0.3 |
| F | 9,077 | 148 | 811 | 1.2 | 18.0 | 18.0 | 19.0 | 1.0 |
| G | 9,582 | 177 | 887 | 0.3 | 18.0 | 18.0 | 19.0 | 1.0 |
| H | 10,717 | 169 | 557 | 0.5 | 18.2 | 18.2 | 19.2 | 1.0 |
| I | 12,282 | 135 | 251 | 0.2 | 19.8 | 19.8 | 20.7 | 0.9 |
| J | 12,392 | 115 | 248 | 0.2 | 20.0 | 20.0 | 21.0 | 1.0 |
| K | 12,632 | 115 | 225 | 0.2 | 20.0 | 20.0 | 21.0 | 1.0 |

¹Floodway not computed/shown for this cross section

²Feet above mouth

³Combined coastal and riverine effects from Caloosahatchee River and Owl Creek

⁴Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: OWL CREEK

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|----------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ² | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A ¹ | 0 | N/A | N/A | N/A | * | 0.0 ⁴ | N/A | N/A |
| B | 2,514 | 200 | 927 | 1.3 | 9.5 ³ | 9.2 ⁴ | 9.8 | 0.6 |
| C | 3,684 | 50 | 261 | 3.9 | 10.6 ³ | 10.4 ⁴ | 11.3 | 0.9 |
| D | 4,854 | 1,097 | 2,754 | 0.4 | 12.8 ³ | 12.7 ⁴ | 13.7 | 1.0 |
| E | 5,800 | 112 | 385 | 2.4 | 14.4 | 14.4 | 15.3 | 0.9 |
| F | 6,474 | 385 | 1,392 | 0.7 | 14.7 | 14.7 | 15.7 | 1.0 |
| G | 6,572 | 375 | 989 | 0.9 | 16.1 | 16.1 | 16.6 | 0.5 |
| H | 7,391 | 155 | 478 | 1.8 | 16.6 | 16.6 | 17.4 | 0.8 |
| I | 7,625 | 277 | 1,010 | 0.9 | 17.0 | 17.0 | 17.9 | 0.9 |
| J | 8,375 | 305 | 1,182 | 0.6 | 17.1 | 17.1 | 18.0 | 0.9 |
| K | 9,283 | 167 | 359 | 2.1 | 18.0 | 18.0 | 18.7 | 0.7 |
| L | 9,510 | 250 | 554 | 1.4 | 18.1 | 18.1 | 19.1 | 1.0 |
| M | 11,241 | 536 | 1,210 | 0.5 | 19.2 | 19.2 | 20.1 | 0.9 |
| N | 11,608 | 172 | 734 | 0.9 | 20.0 | 20.0 | 20.8 | 0.8 |
| O | 13,365 | 250 | 832 | 0.7 | 20.1 | 20.1 | 21.0 | 0.9 |
| P | 14,039 | 265 | 867 | 0.6 | 20.1 | 20.1 | 21.1 | 1.0 |
| Q | 15,335 | 400 | 669 | 0.6 | 20.6 | 20.6 | 21.6 | 1.0 |
| R | 16,325 | 106 | 241 | 1.6 | 21.6 | 21.6 | 22.5 | 0.9 |
| S | 17,295 | 152 | 414 | 0.9 | 22.4 | 22.4 | 23.4 | 1.0 |

¹Floodway not computed/shown for this cross section

²Feet above mouth

³Combined coastal and riverine effects from Caloosahatchee River and Palm Creek

⁴Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

| | | |
|----------|-------------------------------------------------------------------------------------------------------------------|------------------------------------|
| TABLE 23 | FEDERAL EMERGENCY MANAGEMENT AGENCY LEE COUNTY, FLORIDA AND INCORPORATED AREAS | FLOODWAY DATA |
| | | FLOODING SOURCE: PALM CREEK |

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|----------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ² | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A ¹ | 0 | N/A | N/A | N/A | * | -0.1 ⁴ | N/A | N/A |
| B ¹ | 1,225 | N/A | N/A | N/A | * | 1.4 ⁴ | N/A | N/A |
| C ¹ | 2,025 | N/A | N/A | N/A | * | 2.1 ⁴ | N/A | N/A |
| D ¹ | 2,925 | N/A | N/A | N/A | * | 2.5 ⁴ | N/A | N/A |
| E ¹ | 3,925 | N/A | N/A | N/A | * | 2.8 ⁴ | N/A | N/A |
| F ¹ | 4,830 | N/A | N/A | N/A | * | 3.5 ⁴ | N/A | N/A |
| G | 5,660 | 40 | 363 | 3.5 | * | 4.1 ⁴ | 5.0 | 0.9 |
| H | 7,675 | 60 | 266 | 4.2 | * | 6.1 ⁴ | 7.0 | 0.9 |
| I | 8,576 | 86 | 466 | 2.4 | * | 7.0 ⁴ | 8.0 | 1.0 |
| J | 11,612 | 44 | 219 | 5.1 | 12.4 ³ | 12.3 ⁴ | 13.2 | 0.9 |
| K | 13,218 | 132 | 621 | 1.8 | 14.0 ³ | 14.0 ⁴ | 15.0 | 1.0 |
| L | 14,519 | 48 | 242 | 4.7 | 15.7 ³ | 15.7 ⁴ | 16.5 | 0.8 |
| M | 15,920 | 40 | 255 | 4.4 | 18.3 | 18.3 | 19.3 | 1.0 |
| N | 16,845 | 600 | 1,839 | 0.6 | 19.4 | 19.4 | 20.4 | 1.0 |
| O | 18,469 | 500 | 1,642 | 0.7 | 20.0 | 20.0 | 20.9 | 0.9 |
| P | 19,202 | 350 | 976 | 1.2 | 20.2 | 20.2 | 21.1 | 0.9 |
| Q | 19,793 | 500 | 1,307 | 0.9 | 20.4 | 20.4 | 21.3 | 0.9 |
| R | 20,375 | 850 | 1,434 | 0.8 | 20.7 | 20.7 | 21.5 | 0.8 |
| S | 21,357 | 1,200 | 1,603 | 0.7 | 21.1 | 21.1 | 22.0 | 0.9 |
| T | 22,213 | 1,074 | 1,753 | 0.7 | 21.5 | 21.5 | 22.5 | 1.0 |

¹Floodway not computed/shown for this cross section

²Feet above mouth

³Combined coastal and riverine effects from Caloosahatchee River and Palm Creek

⁴Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: POPASH CREEK

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| U | 22,368 | 1,197 | 2,083 | 0.6 | 21.6 | 21.6 | 22.6 | 1.0 |
| V | 23,529 | 600 | 1,060 | 1.2 | 22.6 | 22.6 | 23.5 | 0.9 |
| W | 24,085 | 1,100 | 1,316 | 0.9 | 23.1 | 23.1 | 24.0 | 0.9 |
| X | 24,684 | 1,087 | 1,176 | 1.1 | 23.7 | 23.7 | 24.2 | 0.5 |
| Y | 25,927 | 2,000 | 3,224 | 0.4 | 23.7 | 23.7 | 24.7 | 1.0 |
| Z | 27,224 | 943 | 1,435 | 0.9 | 24.4 | 24.4 | 25.3 | 0.9 |
| AA | 29,526 | 1,077 | 2,572 | 0.5 | 25.1 | 25.1 | 26.1 | 1.0 |

¹Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: POPASH CREEK

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|----------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ² | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A ¹ | 200 | N/A | N/A | N/A | * | 0.9 ⁴ | N/A | N/A |
| B ¹ | 1,400 | N/A | N/A | N/A | * | 2.7 ⁴ | N/A | N/A |
| C | 2,400 | 450 | 1,393 | 2.3 | * | 4.7 ⁴ | 5.2 | 0.5 |
| D | 3,674 | 350 | 2,214 | 1.2 | * | 6.6 ⁴ | 7.5 | 0.9 |
| E | 4,573 | 635 | 2,883 | 0.9 | * | 6.7 ⁴ | 7.7 | 1.0 |
| F | 5,373 | 652 | 3,368 | 0.8 | * | 6.9 ⁴ | 7.9 | 1.0 |
| G | 7,116 | 305 | 1,443 | 1.7 | * | 8.0 ⁴ | 8.7 | 0.7 |
| H | 8,582 | 75 | 457 | 4.3 | 9.9 ³ | 9.2 ⁴ | 10.1 | 0.9 |
| I | 8,935 | 32 | 447 | 4.4 | 10.7 ³ | 10.5 ⁴ | 11.1 | 0.6 |
| J | 10,768 | 600 | 1,811 | 1.1 | 11.1 ³ | 11.0 ⁴ | 11.9 | 0.9 |
| K | 11,038 | 560 | 1,231 | 1.6 | 11.5 ³ | 11.4 ⁴ | 12.0 | 0.6 |
| L | 11,243 | 500 | 1,713 | 1.2 | 11.6 ³ | 11.5 ⁴ | 12.2 | 0.7 |
| M | 12,212 | 500 | 1,413 | 1.4 | 11.9 ³ | 11.9 ⁴ | 12.8 | 0.9 |

¹Floodway not computed/shown for this cross section

²Feet above mouth

³Combined coastal and riverine effects from Caloosahatchee River and Powell Creek

⁴Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: POWELL CREEK

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| N | 12,370 | 85 | 503 | 0.5 | 11.9 ² | 11.9 ³ | 12.8 | 0.9 |
| O | 12,829 | 90 | 477 | 0.5 | 11.9 ² | 11.9 ³ | 12.8 | 0.9 |
| P | 13,398 | 82 | 491 | 0.5 | 12.0 ² | 11.9 ³ | 12.9 | 1.0 |
| Q | 14,787 | 79 | 511 | 0.4 | 12.0 ² | 11.9 ³ | 12.9 | 1.0 |
| R | 16,187 | 80 | 394 | 0.5 | 12.0 | 12.0 | 12.9 | 0.9 |
| S | 17,606 | 38 | 422 | 0.5 | 12.0 | 12.0 | 12.9 | 0.9 |
| T | 19,308 | 117 | 233 | 0.7 | 12.1 | 12.1 | 13.0 | 0.9 |
| U | 21,432 | 38 | 69 | 1.2 | 15.4 | 15.4 | 15.4 | 0.0 |
| V | 22,732 | 45 | 78 | 1.1 | 15.7 | 15.7 | 15.8 | 0.1 |
| W | 24,682 | 50 | 54 | 1.5 | 16.9 | 16.9 | 16.9 | 0.0 |
| X | 25,702 | 52 | 140 | 0.6 | 17.0 | 17.0 | 17.0 | 0.0 |
| Y | 27,382 | 54 | 88 | 0.9 | 17.5 | 17.5 | 17.5 | 0.0 |
| Z | 29,982 | 51 | 59 | 0.7 | 18.0 | 18.0 | 18.1 | 0.1 |
| AA | 32,632 | 52 | 59 | 0.7 | 18.5 | 18.5 | 18.5 | 0.0 |
| AB | 36,282 | 44 | 35 | 1.1 | 19.9 | 19.9 | 19.9 | 0.0 |

¹Feet above mouth

²Combined coastal and riverine effects from Caloosahatchee River and Powell Creek

³Elevation computed without consideration of backwater effects from Caloosahatchee River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: POWELL BYPASS

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 155 | 150 | 1,115 | 4.5 | 12.8 ² | 12.3 ³ | 12.8 | 0.5 |
| B | 1,390 | 1,500 | 5,865 | 0.7 | 13.2 ² | 12.9 ³ | 13.4 | 0.5 |
| C | 2,690 | 900 | 3,859 | 1.1 | 13.3 ² | 13.1 ³ | 13.6 | 0.5 |
| D | 4,003 | 889 | 2,902 | 1.4 | 13.9 ² | 13.7 ³ | 14.5 | 0.8 |
| E | 5,517 | 700 | 3,197 | 1.3 | 14.4 ² | 14.3 ³ | 15.1 | 0.8 |
| F | 7,855 | 1,200 | 4,348 | 0.9 | 14.9 ² | 14.9 | 15.5 | 0.6 |
| G | 8,743 | 922 | 3,111 | 1.3 | 15.3 | 15.3 | 15.8 | 0.5 |
| H | 10,703 | 1,700 | 5,967 | 0.7 | 16.0 | 16.0 | 16.3 | 0.3 |
| I | 11,403 | 1,700 | 6,083 | 0.7 | 16.0 | 16.0 | 16.3 | 0.3 |
| J | 12,413 | 1,900 | 7,363 | 0.6 | 16.5 | 16.5 | 16.7 | 0.2 |
| K | 13,677 | 1,757 | 6,659 | 0.6 | 16.6 | 16.6 | 16.8 | 0.2 |
| L | 14,977 | 371 | 1,396 | 2.9 | 17.4 | 17.4 | 17.8 | 0.4 |
| M | 16,507 | 1,250 | 5,762 | 0.7 | 17.7 | 17.7 | 18.2 | 0.5 |
| N | 21,317 | 1,100 | 5,729 | 0.7 | 18.5 | 18.5 | 19.2 | 0.7 |
| O | 24,000 | 1,863 | 9,257 | 0.4 | 18.6 | 18.6 | 19.3 | 0.7 |
| P | 26,785 | 1,600 | 6,868 | 0.5 | 18.6 | 18.6 | 19.3 | 0.7 |
| Q | 30,435 | 2,000 | 8,331 | 0.2 | 18.7 | 18.7 | 19.4 | 0.7 |
| R | 33,115 | 1,850 | 6,307 | 0.3 | 18.8 | 18.8 | 19.4 | 0.6 |
| S | 37,430 | 1,600 | 8,282 | 0.2 | 21.4 | 21.4 | 21.9 | 0.5 |
| T | 39,830 | 1,000 | 4,111 | 0.4 | 21.4 | 21.4 | 21.9 | 0.5 |
| U | 42,689 | 2,678 | 7,923 | 0.2 | 21.6 | 21.6 | 22.1 | 0.5 |
| V | 44,739 | 1,978 | 8,418 | 0.1 | 21.6 | 21.6 | 22.1 | 0.5 |
| W | 46,197 | 522 | 1,871 | 0.6 | 21.6 | 21.6 | 22.3 | 0.7 |
| X | 47,397 | 500 | 2,318 | 0.5 | 21.7 | 21.7 | 22.7 | 1.0 |

¹Feet above mouth

²Combined coastal and riverine effects from Estero River and Six Mile Cypress Slough

³Elevation computed without consideration of backwater effects from Estero River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SIX MILE CYPRESS SLOUGH

| LOCATION | | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|------------------|---------------|----------|
| MBR NO. (I,J) | CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| 7072 (4,77) | A | 0 | 317 | 1,747 | 0.3 | 11.4 ⁴ | 11.4 | 12.4 | 1.0 |
| 7072 (4,77) | B | 1,471 | 115 | 1,118 | 0.6 | 11.4 ⁴ | 11.4 | 12.4 | 1.0 |
| 6932 (4,79) | C | 1,493 | 237 | 901 | 0.7 | 11.4 ⁴ | 11.4 | 12.4 | 1.0 |
| 6931 (4,80) | D | 2,629 | 329 | 591 | 1.0 | 11.7 ⁴ | 11.7 | 12.6 | 0.9 |
| 6930 (4,81) | E | 3,009 | 120 | 590 | 0.7 | 11.8 ⁴ | 11.8 | 12.7 | 0.9 |
| 6928 (4,83) | F | 4,373 | 173 | 574 | 0.6 | 13.7 | 11.8 | 12.7 | 0.9 |
| 6927 (4,84) | G | 5,333 | 150 | 395 | 0.9 | 14.5 ³ | 12.1 | 12.9 | 0.8 |
| 6925 (4,86) | H | 6,393 | 411 | 862 | 0.5 | 14.9 ³ | 12.5 | 13.2 | 0.7 |
| 6924 (4,87) | I | 7,673 | 634 | 702 | 0.7 | 15.3 ³ | 13.7 | 14.3 | 0.6 |
| 6923 (4,88) | J | 8,505 | 659 | 546 | 0.9 | 15.4 ³ | 13.9 | 14.4 | 0.5 |
| 6922 (4,89) | K | 9,432 | 534 | 534 | 0.8 | 15.4 ³ | 14.4 | 15.0 | 0.6 |
| 6921 (4,90) | L | 10,432 | 686 | 1,257 | 0.4 | 15.4 ³ | 14.8 | 15.3 | 0.5 |
| 6921 (4,90) | M | 11,185 | 584 | 749 | 0.6 | 15.4 ³ | 14.9 | 15.4 | 0.5 |

¹Feet above confluence with Estero River

²Elevation computed without consideration of backwater effects from Estero River ←

³The regulatory elevations were defined with the S2DMM 2D model and should be used for flood insurance and floodplain management decisions. The HEC-RAS 1D model was used to define the floodway width and the "Without Floodway" elevations do not agree with S2DMM model.

⁴Elevation computed from the HEC-RAS 1D model. ←

REVISED DATA

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

REVISED TO
REFLECT LOMR
EFFECTIVE: July 15, 2024

FLOODING SOURCE: SOUTH BRANCH

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 0 | 46 | 273 | 0.9 | 12.6 ² | 12.4 ³ | 13.4 | 1.0 |
| B | 1,170 | 70 | 255 | 0.9 | 12.7 ² | 12.5 ³ | 13.5 | 1.0 |
| C | 2,930 | 50 | 234 | 1.0 | 12.8 ² | 12.7 ³ | 13.6 | 0.9 |
| D | 4,122 | 44 | 250 | 0.9 | 18.4 ² | 18.4 | 18.4 | 0.0 |

¹Feet above mouth

²Combined coastal and riverine effects from Caloosahatchee River and Spanish Canal

³Elevation computed without consideration of backwater effects from Caloosahatchee River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SPANISH CANAL

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 0 | 42 | 231 | 9.7 | * | 2.2 ³ | 3.2 | 1.0 |
| B | 916 | 195 | 767 | 2.9 | * | 8.1 ³ | 8.6 | 0.5 |
| C | 2,081 | 312 | 1,313 | 1.5 | * | 9.3 ³ | 10.2 | 0.9 |
| D | 4,446 | 89 | 546 | 3.7 | 11.6 ² | 11.3 ³ | 12.2 | 0.9 |
| E | 4,590 | 41 | 240 | 8.4 | 12.1 ² | 11.8 ³ | 12.4 | 0.6 |
| F | 4,841 | 465 | 1,238 | 1.6 | 13.8 ² | 13.8 ³ | 14.1 | 0.3 |
| G | 6,481 | 714 | 1,741 | 1.2 | 15.5 ² | 15.5 ³ | 16.1 | 0.6 |
| H | 7,331 | 1,199 | 3,321 | 0.6 | 16.0 | 16.0 | 16.8 | 0.8 |
| I | 9,075 | 1,200 | 3,056 | 0.7 | 17.0 | 17.0 | 17.6 | 0.6 |
| J | 10,685 | 1,400 | 3,342 | 0.6 | 17.5 | 17.5 | 18.5 | 1.0 |
| K | 12,191 | 1,320 | 2,793 | 0.8 | 19.1 | 19.1 | 20.0 | 0.9 |
| L | 13,281 | 1,320 | 3,792 | 0.2 | 19.2 | 19.2 | 20.2 | 1.0 |

¹Feet above mouth

²Combined coastal and riverine effects from Caloosahatchee River and Spanish Creek

³Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SPANISH CREEK

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|------------------------|-------------------------|--------------------------|--------------------------------------------------------------|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 3,036 | 681 / 276 ² | 3,102 | 1.1 | * | 1.7 ³ | 2.5 | 0.8 |
| B | 5,636 | 366 | 2,136 | 1.6 | * | 3.2 ³ | 4.1 | 0.9 |
| C | 8,236 | 325 | 2,663 | 1.2 | * | 3.5 ³ | 4.4 | 0.9 |
| D | 10,236 | 130 | 1,139 | 2.9 | * | 3.8 ³ | 4.7 | 0.9 |
| E | 11,836 | 245 | 2,045 | 1.1 | * | 4.1 ³ | 5.1 | 1.0 |
| F | 13,136 | 795 | 4,916 | 0.4 | * | 4.1 ³ | 5.1 | 1.0 |
| G | 14,336 | 388 | 2,489 | 0.9 | * | 4.1 ³ | 5.0 | 0.9 |
| H | 15,336 | 207 | 1,586 | 1.4 | * | 4.3 ³ | 5.2 | 0.9 |
| I | 16,636 | 121 | 951 | 2.3 | * | 4.4 ³ | 5.3 | 0.9 |
| J | 17,936 | 75 | 676 | 3.2 | * | 4.7 ³ | 5.6 | 0.9 |
| K | 19,911 | 148 | 1,153 | 1.9 | * | 5.3 ³ | 6.3 | 1.0 |
| L | 22,986 | 279 | 1,333 | 1.3 | * | 7.8 ³ | 8.6 | 0.8 |
| M | 24,207 | 530 | 1,790 | 0.9 | 10.3 | 10.3 | 11.1 | 0.8 |
| N | 25,960 | 55 | 389 | 3.8 | 11.1 | 11.1 | 12.0 | 0.9 |
| O | 26,027 | 51 | 396 | 3.7 | 13.0 | 13.0 | 13.6 | 0.6 |
| P | 26,959 | 428 | 970 | 1.4 | 13.4 | 13.4 | 14.2 | 0.8 |
| Q | 27,988 | 950 | 2,711 | 0.5 | 13.4 | 13.4 | 14.4 | 1.0 |

¹Feet above mouth

²Total width / width shown

³Elevation computed without consideration of backwater effects from Estero Bay

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
LEE COUNTY, FLORIDA
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SPRING CREEK

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 1,180 | 404 | 2,018 | 0.6 | 13.4 | 13.4 | 14.4 | 1.0 |
| B | 2,590 | 650 | 1,960 | 0.5 | 13.7 | 13.7 | 14.7 | 1.0 |
| C | 3,961 | 134 | 505 | 2.0 | 15.0 | 15.0 | 15.9 | 0.9 |
| D | 5,511 | 255 | 873 | 1.1 | 16.8 | 16.8 | 17.8 | 1.0 |
| E | 7,611 | 751 | 2,146 | 0.5 | 17.9 | 17.9 | 18.8 | 0.9 |

¹Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: STRICKLIN GULLY

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|----------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ² | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A ¹ | 0 | N/A | N/A | N/A | * | 0.0 ³ | N/A | N/A |
| B ¹ | 1,850 | N/A | N/A | N/A | * | 1.8 ³ | N/A | N/A |
| C | 2,880 | 168 | 673 | 2.6 | * | 2.7 ³ | 3.1 | 0.4 |
| D | 5,971 | 359 | 1,464 | 1.2 | * | 7.5 ³ | 8.1 | 0.6 |
| E | 7,544 | 76 | 363 | 4.8 | * | 9.1 ³ | 9.6 | 0.5 |
| F | 8,537 | 554 | 743 | 2.0 | 12.5 | 12.5 | 13.3 | 0.8 |
| G | 9,867 | 275 | 1,014 | 1.5 | 14.4 | 14.4 | 15.3 | 0.9 |
| H | 10,637 | 588 | 1,593 | 1.0 | 14.9 | 14.9 | 15.8 | 0.9 |
| I | 11,767 | 675 | 1,088 | 1.4 | 16.7 | 16.7 | 17.5 | 0.8 |
| J | 13,067 | 750 | 2,094 | 0.7 | 17.9 | 17.9 | 18.7 | 0.8 |
| K | 14,569 | 833 | 1,448 | 1.1 | 19.4 | 19.4 | 19.9 | 0.5 |
| L | 15,578 | 404 | 998 | 1.5 | 20.0 | 20.0 | 20.6 | 0.6 |
| M | 15,969 | 931 | 2,775 | 0.5 | 20.5 | 20.5 | 21.2 | 0.7 |
| N | 17,374 | 875 | 2,562 | 0.5 | 20.7 | 20.7 | 21.7 | 1.0 |
| O | 19,629 | 1,086 | 2,858 | 0.5 | 21.4 | 21.4 | 22.0 | 0.6 |
| P | 21,714 | 1,060 | 2,673 | 0.5 | 21.6 | 21.6 | 22.4 | 0.8 |
| Q | 22,228 | 1,299 | 2,398 | 0.5 | 22.8 | 22.8 | 23.8 | 1.0 |
| R | 23,514 | 1,600 | 3,410 | 0.3 | 23.1 | 23.1 | 24.1 | 1.0 |

¹Floodway not computed/shown for this cross section

²Feet above mouth

³Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: STROUD CREEK

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 0 | 500 | 1,541 | 6.9 | * | 5.2 ³ | 5.2 | 0.0 |
| B | 1,790 | 823 | 4,795 | 2.2 | * | 8.3 ³ | 9.2 | 0.9 |
| C | 3,153 | 330 | 2,313 | 4.6 | 10.2 ² | 9.5 ³ | 9.8 | 0.3 |
| D | 4,430 | 310 | 2,804 | 3.8 | 10.9 ² | 10.4 ³ | 11.3 | 0.9 |
| E | 5,718 | 962 | 6,465 | 1.7 | 11.7 ² | 11.4 ³ | 12.4 | 1.0 |
| F | 7,755 | 330 | 2,737 | 3.9 | 12.4 ² | 12.2 ³ | 13.1 | 0.9 |
| G | 9,211 | 590 | 4,105 | 2.6 | 14.8 ² | 14.7 ³ | 15.5 | 0.8 |
| H | 9,462 | 940 | 5,776 | 1.9 | 15.0 | 15.0 | 16.0 | 1.0 |
| I | 10,932 | 732 | 5,860 | 1.9 | 15.9 | 15.9 | 16.9 | 1.0 |
| J | 12,088 | 750 | 4,689 | 2.5 | 16.6 | 16.6 | 17.5 | 0.9 |
| K | 13,430 | 902 | 7,845 | 1.5 | 17.7 | 17.7 | 18.6 | 0.9 |
| L | 15,528 | 1,220 | 7,356 | 0.1 | 17.9 | 17.9 | 18.9 | 1.0 |
| M | 16,847 | 1,882 | 9,354 | 0.1 | 17.9 | 17.9 | 18.9 | 1.0 |
| N | 17,307 | 1,566 | 9,742 | 0.1 | 17.9 | 17.9 | 18.9 | 1.0 |

¹Feet above mouth

²Combined coastal and riverine effects from Caloosahatchee River and Telegraph Creek

³Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: TELEGRAPH CREEK

| LOCATION | | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|------------------|---------------|----------|
| MBR NO. (I,J) | CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| 1562 (7,10) | A | 800 | 442 | 1,194 | 3.5 | * | 1.6 ³ | 2.1 | 0.6 |
| 1550 | B | 7,000 | 209 | 3,674 | 1.1 | * | 6.0 ³ | 6.4 | 0.4 |
| 1547 | C | 8,500 | 164 | 1,566 | 2.7 | * | 6.2 ³ | 6.8 | 0.6 |
| 1543 (26,10) | D | 10,490 | 111 | 805 | 5.2 | * | 7.1 ³ | 7.2 | 0.1 |
| 1539 (30,10) | E | 12,491 | 227 | 2,153 | 2.0 | * | 7.8 ³ | 8.6 | 0.8 |
| 1532 (37,10) | F | 16,000 | 83 | 744 | 4.8 | 10.2 ² | 9.0 | 9.6 | 0.6 |
| 1523 (46,10) | G | 20,500 | 82 | 781 | 2.7 | 11.5 ² | 10.4 | 10.8 | 0.4 |
| 1517 (52,10) | H | 23,500 | 102 | 1,040 | 1.9 | 11.8 ² | 10.8 | 11.1 | 0.3 |
| 1510 (59,10) | I | 27,000 | 92 | 738 | 2.7 | 12.5 ² | 11.3 | 11.6 | 0.3 |
| 1504 (65,10) | J | 30,000 | 66 | 523 | 2.3 | 13.0 ² | 12.0 | 12.2 | 0.2 |
| 1498 (71,10) | K | 33,330 | 84 | 527 | 2.3 | 13.6 ² | 12.5 | 12.7 | 0.2 |
| 1493 (76,10) | L | 35,500 | 77 | 668 | 1.8 | 13.9 ² | 12.8 | 13.0 | 0.2 |
| 1486 (83,10) | M | 39,000 | 76 | 485 | 2.5 | 14.2 ² | 13.1 | 13.3 | 0.2 |
| 1481 (88,10) | N | 41,500 | 83 | 529 | 1.6 | 14.9 ² | 13.5 | 13.6 | 0.1 |
| 1479 (88,12) | O | 42,500 | 113 | 616 | 1.0 | 15.0 ² | 13.7 | 13.8 | 0.1 |
| 1476 (88,15) | P | 44,000 | 62 | 298 | 2.1 | 15.1 ² | 14.0 | 14.1 | 0.1 |
| 1474 (88,17) | Q | 45,000 | 81 | 430 | 1.4 | 15.2 ² | 14.2 | 14.2 | 0.0 |
| 1468 (88,23) | R | 48,000 | 49 | 253 | 1.6 | 15.8 ² | 14.4 | 14.4 | 0.0 |
| 1454 (88,37) | S | 54,930 | 22 | 68 | 0.5 | 15.9 ² | 14.5 | 14.6 | 0.1 |

¹Feet above confluence mouth

²The regulatory elevations were defined with the S2DMM 2D model and should be used for flood insurance and floodplain management decisions. The HEC-RAS 1D model was used to define the floodway width and the "Without Floodway" elevations do not agree with S2DMM model.

³Elevation computed without consideration of backwater effects from Estero Bay

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
LEE COUNTY, FLORIDA
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: TEN MILE CANAL

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|----------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ² | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A ¹ | 2,944 | N/A | N/A | N/A | * | 5.0 ⁴ | N/A | N/A |
| B ¹ | 5,344 | N/A | N/A | N/A | * | 5.6 ⁴ | N/A | N/A |
| C ¹ | 6,709 | N/A | N/A | N/A | * | 5.9 ⁴ | N/A | N/A |
| D ¹ | 9,347 | N/A | N/A | N/A | * | 6.6 ⁴ | N/A | N/A |
| E ¹ | 10,800 | N/A | N/A | N/A | * | 9.2 ⁴ | N/A | N/A |
| F | 15,216 | 1,191 | 4,019 | 1.1 | 11.8 ³ | 11.7 ⁴ | 12.7 | 1.0 |
| G | 16,366 | 654 | 2,445 | 1.8 | 12.9 | 12.9 | 13.8 | 0.9 |
| H | 18,151 | 1,053 | 2,817 | 0.6 | 14.4 | 14.4 | 14.9 | 0.5 |
| I | 19,839 | 1,090 | 1,276 | 1.2 | 16.3 | 16.3 | 17.0 | 0.7 |
| J | 20,799 | 2,580 | 1,558 | 0.7 | 17.9 | 17.9 | 18.3 | 0.4 |
| K | 21,708 | 2,575 | 2,449 | 0.4 | 19.0 | 19.0 | 19.3 | 0.3 |
| L | 23,137 | 1,703 | 1,528 | 0.7 | 20.3 | 20.3 | 21.0 | 0.7 |

¹Floodway not computed/shown for this cross section

²Feet above mouth

³Combined coastal and riverine effects from Caloosahatchee River and Trout Creek/Curry Lake Canal

⁴Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

| | | |
|----------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| TABLE 23 | FEDERAL EMERGENCY MANAGEMENT AGENCY LEE COUNTY, FLORIDA AND INCORPORATED AREAS | FLOODWAY DATA FLOODING SOURCE: TROUT CREEK / CURRY LAKE CANAL |
|----------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|----------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ² | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A ¹ | 0 | N/A | N/A | N/A | * | -0.2 ⁴ | N/A | N/A |
| B | 642 | 38 | 195 | 2.3 | * | 4.2 ⁴ | 4.2 | 0.0 |
| C | 1,775 | 34 | 67 | 5.8 | 8.3 ³ | 6.7 ⁴ | 6.7 | 0.0 |
| D | 1,985 | 40 | 127 | 3.1 | 8.7 ³ | 8.1 ⁴ | 8.1 | 0.0 |
| E | 3,575 | 49 | 120 | 2.4 | 9.3 ³ | 8.9 ⁴ | 8.9 | 0.0 |
| F | 4,917 | 40 | 145 | 2.0 | 9.9 ³ | 9.6 ⁴ | 9.6 | 0.0 |
| G | 5,487 | 44 | 154 | 1.7 | 10.2 ³ | 10.0 ⁴ | 10.0 | 0.0 |
| H | 5,987 | 39 | 166 | 1.5 | 10.5 ³ | 10.3 ⁴ | 10.3 | 0.0 |
| I | 7,147 | 35 | 150 | 1.3 | 10.9 ³ | 10.7 ⁴ | 10.7 | 0.0 |
| J | 7,974 | 40 | 153 | 1.0 | 11.2 ³ | 11.0 ⁴ | 11.0 | 0.0 |
| K | 8,319 | 43 | 141 | 1.0 | 11.3 ³ | 11.2 ⁴ | 11.2 | 0.0 |
| L | 9,139 | 13 | 94 | 1.1 | 11.4 ³ | 11.3 ⁴ | 11.3 | 0.0 |
| M | 9,773 | 39 | 82 | 0.8 | 11.6 ³ | 11.4 ⁴ | 11.4 | 0.0 |
| N | 10,463 | 29 | 98 | 0.4 | 11.6 ³ | 11.5 ⁴ | 11.5 | 0.0 |
| O | 10,764 | 41 | 135 | 0.3 | 11.6 ³ | 11.5 ⁴ | 11.5 | 0.0 |
| P | 11,098 | 49 | 66 | 0.1 | 11.6 ³ | 11.5 ⁴ | 11.5 | 0.0 |
| Q | 11,189 | 16 | 3 | 1.1 | 11.7 ³ | 11.6 ⁴ | 11.6 | 0.0 |

¹Floodway not computed/shown for this cross section

²Feet above mouth

³Combined coastal and riverine effects from Caloosahatchee River and Winkler Canal

⁴Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: WINKLER CANAL

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--------------------------------------------------------------|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 0 | 115 | 740 | 0.9 | * | 1.6 ³ | 2.6 | 1.0 |
| B | 700 | 115 | 743 | 0.9 | * | 1.6 ³ | 2.6 | 1.0 |
| C | 1,125 | 57 | 295 | 2.3 | * | 1.7 ³ | 2.6 | 0.9 |
| D | 2,425 | 57 | 260 | 2.6 | * | 2.5 ³ | 3.1 | 0.6 |
| E | 4,220 | 50 | 357 | 1.9 | * | 3.5 ³ | 4.0 | 0.5 |
| F | 5,474 | 60 | 222 | 2.8 | * | 4.2 ³ | 4.5 | 0.3 |
| G | 7,192 | 60 | 247 | 1.5 | 8.4 ² | 6.0 ³ | 6.2 | 0.2 |
| H | 9,701 | 52 | 157 | 2.3 | 8.5 ² | 7.2 ³ | 7.3 | 0.1 |
| I | 10,631 | 194 | 317 | 1.1 | 8.7 ² | 7.7 ³ | 7.7 | 0.0 |
| J | 11,506 | 60 | 320 | 1.5 | 8.8 ² | 7.9 ³ | 8.0 | 0.1 |
| K | 13,170 | 28 | 99 | 2.6 | 10.4 ² | 10.2 ³ | 10.3 | 0.1 |
| L | 14,200 | 18 | 122 | 2.1 | 11.5 ² | 11.4 ³ | 11.7 | 0.3 |

¹Feet above mouth

²Combined coastal and riverine effects from Caloosahatchee River and Yellow Fever Creek

³Elevation computed without consideration of backwater effects from Caloosahatchee River

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEE COUNTY, FLORIDA

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: YELLOW FEVER CREEK

**Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams
[Not Applicable to this Flood Risk Project]**

6.4 Coastal Flood Hazard Mapping

Flood insurance zones and BFEs including the wave effects were identified on each transect based on the results from the onshore wave hazard analyses. Between transects, elevations were interpolated using topographic maps, land-use and land-cover data, and knowledge of coastal flood processes to determine the aerial extent of flooding. Sources for topographic data are shown in Table 22.

Zone VE is subdivided into elevation zones and BFEs are provided on the FIRM.

The limit of Zone VE shown on the FIRM is defined as the farthest inland extent of any of these criteria (determined for the 1% annual chance flood condition):

- The *primary frontal dune zone* is defined in 44 CFR Section 59.1 of the NFIP regulations. The primary frontal dune represents a continuous or nearly continuous mound or ridge of sand with relatively steep seaward and landward slopes that occur immediately landward and adjacent to the beach. The primary frontal dune zone is subject to erosion and overtopping from high tides and waves during major coastal storms. The inland limit of the primary frontal dune zone occurs at the point where there is a distinct change from a relatively steep slope to a relatively mild slope.
- The *wave runup zone* occurs where the (eroded) ground profile is 3.0 feet or more below the 2-percent wave runup elevation.
- The *wave overtopping splash zone* is the area landward of the crest of an overtopped barrier, in cases where the potential 2-percent wave runup exceeds the barrier crest elevation by 3.0 feet or more.
- The *breaking wave height zone* occurs where 3-foot or greater wave heights could occur (this is the area where the wave crest profile is 2.1 feet or more above the total stillwater elevation).
- The *high-velocity flow zone* is landward of the overtopping splash zone (or area on a sloping beach or other shore type), where the product of depth of flow times the flow velocity squared (hv^2) is greater than or equal to $200 \text{ ft}^3/\text{sec}^2$. This zone may only be used on the Pacific Coast.

The SFHA boundary indicates the limit of SFHAs shown on the FIRM as either “V” zones or “A” zones.

Table 25 indicates the coastal analyses used for floodplain mapping and the criteria used to determine the inland limit of the open-coast Zone VE and the SFHA boundary at each transect.

Table 25: Summary of Coastal Transect Mapping Considerations

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| | | Zone Designation and BFE (ft NAVD88) | Zone Designation and BFE (ft NAVD88) | | |
| 1 | ✓ | N/A | VE 9-13 AE 7-9 | PFD | SWEL |
| 2 | ✓ | N/A | VE 9-12 AE 7-9 | PFD | SWEL |
| 3 | ✓ | N/A | VE 9-12 AE 7-8 | PFD | SWEL |
| 4 | ✓ | N/A | VE 9-12 AE 7-8 | PFD | N/A |
| 5 | ✓ | VE 13 AO 3 | VE 9-13 AE 7-8 | PFD | SWEL |
| 6 | ✓ | VE 12 AO 2 | VE 9-12 AE 7-8 | PFD | SWEL |
| 7 | ✓ | VE 13 AO 1 | VE 9-12 AE 7 | PFD | SWEL |
| 8 | ✓ | N/A | VE 9-12 AE 7-8 | PFD | SWEL |
| 9 | ✓ | N/A | VE 9-11 AE 7-8 | PFD | N/A |
| 10 | ✓ | N/A | VE 9-11 AE 7-8 | PFD | SWEL |
| 11 | ✓ | N/A | VE 9-11 AE 6-7 | PFD | SWEL |
| 12 | ✓ | N/A | VE 9 AE 6 | PFD | SWEL |
| 13 | ✓ | N/A | VE 8-11 AE 6-7 | PFD | SWEL |
| 14 | ✓ | N/A | VE 8-11 AE 6-9 | PFD | SWEL |
| 15 | ✓ | N/A | VE 8-12 AE 6-10 | PFD | SWEL |
| 16 | ✓ | N/A | VE 8-12 AE 7-9 | PFD | SWEL |
| 17 | ✓ | N/A | VE 8-12 AE 7-10 | PFD | SWEL |
| 18 | ✓ | N/A | VE 8-12 AE 7-9 | PFD | N/A |

Table 25: Summary of Coastal Transect Mapping Considerations (continued)

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| | | Zone Designation and BFE (ft NAVD88) | Zone Designation and BFE (ft NAVD88) | | |
| 19 | ✓ | N/A | VE 9-12 AE 8 | PFD | N/A |
| 20 | ✓ | N/A | VE 9-12 AE 8-9 | PFD | N/A |
| 21 | ✓ | N/A | VE 9-10 AE 7-8 | PFD | N/A |
| 22 | ✓ | N/A | VE 9-11 AE 7-8 | PFD | SWEL |
| 23 | ✓ | N/A | VE 9-11 AE 7-9 | PFD | SWEL |
| 24 | ✓ | N/A | VE 9-12 AE 7-9 | PFD | SWEL |
| 25 | ✓ | N/A | VE 9-12 AE 8 | PFD | N/A |
| 26 | ✓ | N/A | VE 9-12 AE 8-9 | PFD | N/A |
| 27 | ✓ | N/A | VE 8-10 AE 6-7 | PFD | SWEL |
| 28 | ✓ | N/A | VE 8-12 AE 7-8 | PFD | SWEL |
| 29 | ✓ | N/A | VE 8-12 AE 7-8 | PFD | SWEL |
| 30 | ✓ | N/A | VE 8-12 AE 7-8 | PFD | SWEL |
| 31 | ✓ | N/A | VE 8-12 AE 6-9 | PFD | SWEL |
| 32 | ✓ | VE 11 AO 3 | VE 8-12 AE 6-7 | Runup | SWEL |
| 33 | ✓ | VE 10 AO 3 | VE 8-12 AE 7-8 | Runup | SWEL |
| 34 | ✓ | N/A | VE 8-12 AE 6-7 | PFD | SWEL |
| 35 | ✓ | N/A | VE 10-12 AE 6-7 | PFD | SWEL |
| 36 | ✓ | N/A | VE 10-12 AE 6-8 | PFD | SWEL |

Table 25: Summary of Coastal Transect Mapping Considerations (continued)

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| | | Zone Designation and BFE (ft NAVD88) | Zone Designation and BFE (ft NAVD88) | | |
| 37 | ✓ | N/A | VE 9-12 AE 6-8 | PFD | SWEL |
| 38 | ✓ | N/A | VE 9-11 AE 7-9 | PFD | SWEL |
| 39 | ✓ | N/A | VE 9-12 AE 7-9 | PFD | N/A |
| 40 | ✓ | N/A | VE 9-12 AE 7-9 | PFD | SWEL |
| 41 | ✓ | N/A | VE 9-12 AE 7-10 | PFD | N/A |
| 42 | ✓ | N/A | VE 9-13 AE 6-10 | PFD | SWEL |
| 43 | ✓ | N/A | VE 9-13 AE 6-10 | PFD | SWEL |
| 44 | ✓ | N/A | VE 9-13 AE 6-10 | PFD | N/A |
| 45 | ✓ | N/A | VE 9-13 AE 7-10 | PFD | N/A |
| 46 | ✓ | N/A | VE 9-13 AE 7-10 | PFD | N/A |
| 47 | ✓ | N/A | VE 9-13 AE 7-9 | PFD | N/A |
| 48 | ✓ | N/A | VE 9-13 AE 7-9 | PFD | SWEL |
| 49 | ✓ | N/A | VE 9-13 AE 7-10 | PFD | SWEL |
| 50 | ✓ | VE 14 AO 3 | VE 10-14 AE 7-9 | PFD | SWEL |
| 51 | ✓ | VE 13 AO 3 | VE 10-14 AE 7-9 | PFD | SWEL |
| 52 | ✓ | N/A | VE 10-14 AE 7-10 | PFD | SWEL |
| 53 | ✓ | N/A | VE 9-14 AE 7-11 | PFD | N/A |
| 54 | ✓ | N/A | VE 9-14 AE 7-11 | Wave Height | N/A |

Table 25: Summary of Coastal Transect Mapping Considerations (continued)

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| | | Zone Designation and BFE (ft NAVD88) | Zone Designation and BFE (ft NAVD88) | | |
| 55 | ✓ | N/A | VE 10-14 AE 8-11 | Wave Height | SWEL |
| 56 | ✓ | N/A | VE 10-14 AE 8-11 | Wave Height | N/A |
| 57 | ✓ | N/A | VE 10-14 AE 8-11 | Wave Height | SWEL |
| 58 | ✓ | N/A | VE 10-15 AE 8-11 | Wave Height | SWEL |
| 59 | ✓ | N/A | VE 10-15 AE 8-11 | Wave Height | N/A |
| 60 | ✓ | N/A | VE 10-15 AE 8-11 | Wave Height | N/A |
| 61 | ✓ | N/A | VE 10-15 AE 8-11 | Wave Height | N/A |
| 62 | ✓ | N/A | VE 11-15 AE 9-12 | Wave Height | N/A |
| 63 | ✓ | N/A | VE 11-15 AE 9-12 | Wave Height | N/A |
| 64 | ✓ | N/A | VE 12-15 AE 9-12 | Wave Height | N/A |
| 65 | ✓ | N/A | VE 11-15 AE 11 | Wave Height | N/A |
| 66 | ✓ | N/A | VE 11-13 AE 11 | Wave Height | N/A |
| 67 | | N/A | VE 11-13 AE 11 | Wave Height | N/A |
| 68 | | N/A | VE 11-15 AE 10-12 | Wave Height | N/A |
| 69 | | N/A | VE 12 AE 9-10 | Wave Height | N/A |
| 70 | | N/A | VE 11,13,15 AE 9-11 | Wave Height | N/A |
| 71 | | N/A | VE 11 AE 9-11 | Wave Height | N/A |
| 72 | | N/A | VE 10-11 AE 8-10 | Wave Height | N/A |

Table 25: Summary of Coastal Transect Mapping Considerations (continued)

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| | | Zone Designation and BFE (ft NAVD88) | Zone Designation and BFE (ft NAVD88) | | |
| 73 | | N/A | VE 10 AE 8-9 | Wave Height | N/A |
| 74 | | N/A | VE 10 AE 8-9 | Wave Height | N/A |
| 75 | | N/A | VE 10 AE 8 | Wave Height | N/A |
| 76 | | N/A | VE 10 AE 8-9 | Wave Height | N/A |
| 77 | | N/A | VE 9-10 AE 8-11 | Wave Height | N/A |
| 78 | | N/A | VE 9-15 AE 8-11 | Wave Height | N/A |
| 79 | | N/A | VE 9 AE 7-9 | Wave Height | N/A |
| 80 | | N/A | VE 10-12 AE 7-10 | Wave Height | N/A |
| 81 | | N/A | VE 9-11 AE 7-9 | Wave Height | N/A |
| 82 | | N/A | VE 9 AE 7-8 | Wave Height | N/A |
| 83 | | N/A | VE 9-10 AE 7-8 | Wave Height | SWEL |
| 84 | | N/A | VE 8-11 AE 7-8 | Wave Height | SWEL |
| 85 | | N/A | VE 8-10 AE 6-8 | Wave Height | SWEL |
| 86 | | N/A | VE 9-10 AE 6-7 | Wave Height | SWEL |
| 87 | | N/A | VE 9-12 AE 8 | Wave Height | N/A |
| 88 | | N/A | VE 9-10 AE 7-8 | Wave Height | N/A |
| 89 | | N/A | VE 9-10 AE 8 | Wave Height | N/A |
| 90 | | N/A | VE 9 AE 8 | Wave Height | SWEL |

Table 25: Summary of Coastal Transect Mapping Considerations (continued)

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| | | Zone Designation and BFE (ft NAVD88) | Zone Designation and BFE (ft NAVD88) | | |
| 91 | | N/A | VE 9 AE 8 | Wave Height | SWEL |
| 92 | | N/A | VE 9 AE 7-8 | Wave Height | N/A |
| 93 | | N/A | VE 8-11 AE 6-9 | Wave Height | SWEL |
| 94 | | VE 9 AO 2 | VE 9 AE 6-7 | Wave Height | N/A |
| 95 | | N/A | VE 9-13 AE 7 | Wave Height | N/A |
| 96 | | N/A | VE 9 AE 7-8 | Wave Height | N/A |
| 97 | | N/A | VE 9-12 AE 7-8 | Wave Height | N/A |
| 98 | | N/A | VE 9-10 AE 7-9 | Wave Height | N/A |
| 99 | | N/A | VE 10-11 AE 8-10 | Wave Height | SWEL |
| 100 | | N/A | VE 10-11 AE 8, 10 | Wave Height | SWEL |
| 101 | | N/A | VE 10-11 AE 8-9 | Wave Height | SWEL |
| 102 | | N/A | VE 10-11 AE 8-9 | Wave Height | SWEL |
| 103 | | N/A | VE 10-11 AE 7-9 | Wave Height | SWEL |
| 104 | | N/A | VE 11 AE 7-9 | Wave Height | SWEL |
| 105 | | N/A | VE 11 AE 7-9 | Wave Height | SWEL |
| 106 | | N/A | VE 11 AE 7-9 | Wave Height | SWEL |
| 107 | | N/A | VE 11 AE 7-9 | Wave Height | SWEL |
| 108 | | N/A | VE 11 AE 7-9 | Wave Height | SWEL |

Table 25: Summary of Coastal Transect Mapping Considerations (continued)

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| | | Zone Designation and BFE (ft NAVD88) | Zone Designation and BFE (ft NAVD88) | | |
| 109 | | N/A | VE 9-11 AE 7-9 | Wave Height | SWEL |
| 110 | | N/A | VE 10-11 AE 7-9 | Wave Height | SWEL |
| 111 | | N/A | VE 10 AE 7-9 | Wave Height | SWEL |
| 112 | | N/A | VE 10 AE 7-9 | Wave Height | SWEL |
| 113 | | N/A | VE 10 AE 7-9 | Wave Height | SWEL |
| 114 | | N/A | VE 10 AE 7-9 | Wave Height | SWEL |
| 115 | | N/A | VE 10 AE 7-9 | Wave Height | SWEL |
| 116 | | N/A | VE 10 AE 7-9 | Wave Height | SWEL |
| 117 | | N/A | VE 10 AE 7-9 | Wave Height | SWEL |
| 118 | | N/A | VE 10 AE 7-9 | Wave Height | SWEL |
| 119 | | N/A | VE 10 AE 7-9 | Wave Height | SWEL |
| 120 | | N/A | VE 10 AE 7-9 | Wave Height | SWEL |
| 121 | | N/A | VE 9-10 AE 7-9 | Wave Height | N/A |
| 122 | | N/A | VE 9-10 AE 7-9 | Wave Height | N/A |
| 123 | | N/A | VE 10 AE 7-9 | Wave Height | N/A |
| 124 | | N/A | VE 9 AE 7-9 | Wave Height | SWEL |
| 125 | | N/A | VE 9 AE 7-9 | Wave Height | SWEL |
| 126 | | N/A | VE 9 AE 7-8 | Wave Height | SWEL |

Table 25: Summary of Coastal Transect Mapping Considerations (continued)

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| | | Zone Designation and BFE (ft NAVD88) | Zone Designation and BFE (ft NAVD88) | | |
| 127 | | N/A | VE 9 AE 7-8 | Wave Height | SWEL |
| 128 | | N/A | VE 10 AE 7-8 | Wave Height | SWEL |
| 129 | | N/A | VE 9 AE 7-8 | Wave Height | SWEL |
| 130 | | N/A | VE 9 AE 7-8 | Wave Height | SWEL |
| 131 | | N/A | VE 9 AE 7-8 | Wave Height | SWEL |
| 132 | | N/A | VE 9 AE 7-8 | Wave Height | SWEL |
| 133 | | N/A | VE 9 AE 7-8 | Wave Height | SWEL |
| 134 | | N/A | VE 9 AE 7-8 | Wave Height | N/A |
| 135 | | N/A | VE 9 AE 7-8 | Wave Height | SWEL |
| 136 | | N/A | VE 10 AE 7-8 | Wave Height | SWEL |
| 137 | | N/A | VE 10 AE 7-8 | Wave Height | SWEL |
| 138 | | N/A | VE 9 AE 7-8 | Wave Height | N/A |
| 139 | | N/A | VE 9 AE 7-8 | Wave Height | N/A |
| 140 | | N/A | VE 9 AE 7-8 | Wave Height | N/A |
| 141 | | N/A | VE 9 AE 7-8 | Wave Height | N/A |
| 142 | | N/A | VE 9 AE 7-8 | Wave Height | N/A |
| 143 | | N/A | VE 9 AE 7-8 | Wave Height | N/A |
| 144 | | N/A | VE 9 AE 7-8 | Wave Height | SWEL |

Table 25: Summary of Coastal Transect Mapping Considerations (continued)

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| | | Zone Designation and BFE (ft NAVD88) | Zone Designation and BFE (ft NAVD88) | | |
| 145 | | N/A | VE 9 AE 7-8 | Wave Height | N/A |
| 146 | | N/A | VE 9 AE 7-8 | Wave Height | N/A |
| 147 | | N/A | VE 10 AE 7-9 | Wave Height | N/A |
| 148 | | N/A | VE 10 AE 7-9 | Wave Height | N/A |
| 149 | | N/A | VE 10 AE 8-9 | Wave Height | N/A |
| 150 | | N/A | VE 10-11 AE 8-9 | Wave Height | N/A |
| 151 | | N/A | VE 11 AE 8-9 | Wave Height | SWEL |
| 152 | | N/A | VE 10-11 AE 8-10 | Wave Height | SWEL |
| 153 | | N/A | VE 10-11 AE 8-10 | Wave Height | SWEL |
| 154 | | N/A | VE 10-11 AE 8-10 | Wave Height | SWEL |
| 155 | | N/A | VE 10-11 AE 7-9 | Wave Height | SWEL |
| 156 | | N/A | VE 10-11 AE 7-9 | Wave Height | SWEL |
| 157 | | N/A | VE 10-11 AE 7-9 | Wave Height | N/A |
| 158 | | N/A | VE 10-11 AE 7-9 | Wave Height | N/A |
| 159 | | N/A | VE 10-11 AE 7-9 | Wave Height | N/A |
| 160 | | N/A | VE 10-11 AE 7-9 | Wave Height | SWEL |
| 161 | | N/A | VE 11 AE 8-9 | Wave Height | N/A |
| 162 | | N/A | VE 11 AE 7-9 | Wave Height | SWEL |

Table 25: Summary of Coastal Transect Mapping Considerations (continued)

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| | | Zone Designation and BFE (ft NAVD88) | Zone Designation and BFE (ft NAVD88) | | |
| 163 | | N/A | VE 11 AE 8-9 | Wave Height | N/A |
| 164 | | N/A | VE 10-11 AE 7-9 | Wave Height | SWEL |
| 165 | | N/A | VE 10-11 AE 8-9 | Wave Height | SWEL |
| 166 | | N/A | VE 10 AE 8-9 | Wave Height | SWEL |
| 167 | | N/A | VE 10 AE 8-9 | Wave Height | SWEL |
| 168 | | N/A | VE 10 AE 8-9 | Wave Height | SWEL |
| 169 | | N/A | VE 10 AE 8-9 | Wave Height | SWEL |
| 170 | | N/A | VE 10 AE 8-9 | Wave Height | SWEL |
| 171 | | N/A | VE 10 AE 8-9 | Wave Height | N/A |
| 172 | | N/A | VE 10 AE 8-9 | Wave Height | SWEL |
| 173 | | N/A | VE 10 AE 8-9 | Wave Height | N/A |
| 174 | | N/A | VE 10 AE 8-9 | Wave Height | SWEL |
| 175 | | N/A | VE 9-10 AE 8-9 | Wave Height | SWEL |
| 176 | | N/A | VE 10 AE 8 | Wave Height | N/A |
| 177 | | N/A | VE 10 AE 8-9 | Wave Height | N/A |
| 178 | | N/A | VE 10 AE 8-9 | Wave Height | N/A |
| 179 | | N/A | VE 10 AE 8 | Wave Height | N/A |
| 180 | | N/A | VE 10 AE 8-9 | Wave Height | N/A |

Table 25: Summary of Coastal Transect Mapping Considerations (continued)

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| | | Zone Designation and BFE (ft NAVD88) | Zone Designation and BFE (ft NAVD88) | | |
| 181 | | N/A | VE 10 AE 8 | Wave Height | N/A |
| 182 | | N/A | VE 11 AE 8-9 | Wave Height | N/A |
| 183 | | N/A | VE 11 AE 8 | Wave Height | N/A |
| 184 | | N/A | VE 11 AE 8-9 | Wave Height | N/A |
| 185 | | N/A | VE 11 AE 8-9 | Wave Height | N/A |
| 186 | | N/A | VE 10-11 AE 8-9 | Wave Height | N/A |
| 187 | | N/A | VE 10 AE 8-9 | Wave Height | N/A |
| 188 | | N/A | VE 10 AE 8-9 | Wave Height | N/A |
| 189 | | N/A | VE 10 AE 8-9 | Wave Height | N/A |
| 190 | | N/A | VE 10 AE 8-9 | Wave Height | N/A |
| 191 | | N/A | VE 10-11 AE 8-9 | Wave Height | N/A |
| 192 | | N/A | VE 11 AE 8-9 | Wave Height | N/A |
| 193 | | N/A | VE 11 AE 8-9 | Wave Height | SWEL |
| 194 | | N/A | VE 11 AE 8-9 | Wave Height | N/A |
| 195 | | N/A | VE 11 AE 8-9 | Wave Height | SWEL |
| 196 | | N/A | VE 11 AE 8-9 | Wave Height | SWEL |
| 197 | | N/A | VE 11 AE 8-9 | Wave Height | SWEL |
| 198 | | N/A | VE 11 AE 8-9 | Wave Height | SWEL |

Table 25: Summary of Coastal Transect Mapping Considerations (continued)

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| | | Zone Designation and BFE (ft NAVD88) | Zone Designation and BFE (ft NAVD88) | | |
| 199 | | N/A | VE 11 AE 8-9 | Wave Height | SWEL |
| 200 | | N/A | VE 10-11 AE 8-9 | Wave Height | N/A |
| 201 | | N/A | VE 10-11 AE 8-9 | Wave Height | SWEL |
| 202 | | N/A | VE 10 AE 8-9 | Wave Height | N/A |
| 203 | | N/A | VE 10-11 AE 8-9 | Wave Height | N/A |
| 204 | | N/A | VE 10 AE 8-9 | Wave Height | N/A |
| 205 | | N/A | VE 10-11 AE 8-9 | Wave Height | SWEL |
| 206 | | N/A | VE 10 AE 8-9 | Wave Height | N/A |
| 207 | | N/A | VE 10-11 AE 7-9 | Wave Height | N/A |
| 208 | | N/A | VE 9-11 AE 8-9 | Wave Height | N/A |
| 209 | | N/A | VE 10-11 AE 7-10 | Wave Height | SWEL |
| 210 | | N/A | VE 10-11 AE 7-10 | Wave Height | SWEL |
| 211 | | N/A | VE 10-11 AE 7-10 | Wave Height | SWEL |
| 212 | | N/A | VE 10-11 AE 7-9 | Wave Height | SWEL |
| 213 | | N/A | VE 10-11 AE 7-9 | Wave Height | SWEL |
| 214 | | N/A | VE 10-11 AE 7-9 | Wave Height | SWEL |
| 215 | | N/A | VE 10-11 AE 7-10 | Wave Height | SWEL |
| 216 | | N/A | VE 10-11 AE 7-8 | Wave Height | SWEL |

Table 25: Summary of Coastal Transect Mapping Considerations (continued)

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| | | Zone Designation and BFE (ft NAVD88) | Zone Designation and BFE (ft NAVD88) | | |
| 217 | | N/A | VE 10-11 AE 7-9 | Wave Height | SWEL |
| 218 | | N/A | VE 10-11 AE 7-9 | Wave Height | SWEL |
| 219 | | N/A | VE 10-11 AE 7-9 | Wave Height | SWEL |
| 220 | | N/A | VE 10-11 AE 7-9 | Wave Height | SWEL |
| 221 | | N/A | VE 10-11 AE 7-9 | Wave Height | N/A |
| 222 | | N/A | VE 10-11 AE 7-9 | Wave Height | SWEL |
| 223 | | N/A | VE 10-11 AE 7-9 | Wave Height | SWEL |
| 224 | | N/A | VE 10-11 AE 7-10 | Wave Height | SWEL |
| 225 | | N/A | VE 10-11 AE 8-10 | Wave Height | SWEL |
| 226 | | N/A | VE 11 AE 8-10 | Wave Height | SWEL |
| 227 | | N/A | VE 11 AE 8-10 | Wave Height | SWEL |
| 228 | | N/A | VE 11-12 AE 7-10 | Wave Height | SWEL |
| 229 | | N/A | VE 12 AE 7-10 | Wave Height | SWEL |
| 230 | | N/A | VE 11 AE 7-10 | Wave Height | SWEL |
| 231 | | N/A | VE 11 AE 8-10 | Wave Height | SWEL |
| 232 | | N/A | VE 10-11 AE 8-9 | Wave Height | SWEL |
| 233 | | N/A | VE 10-11 AE 7-9 | Wave Height | SWEL |
| 234 | | N/A | VE 10 AE 8-9 | Wave Height | SWEL |

Table 25: Summary of Coastal Transect Mapping Considerations (continued)

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| | | Zone Designation and BFE (ft NAVD88) | Zone Designation and BFE (ft NAVD88) | | |
| 235 | | N/A | VE 11 AE 8-9 | Wave Height | SWEL |
| 236 | | N/A | VE 11 AE 8 | Wave Height | N/A |
| 237 | | N/A | VE 11 AE 8-9 | Wave Height | SWEL |
| 238 | | N/A | VE 11 AE 8-10 | Wave Height | N/A |
| 239 | | N/A | VE 11 AE 8 | Wave Height | SWEL |
| 240 | | N/A | VE 11 AE 8-9 | Wave Height | SWEL |
| 241 | | N/A | VE 11 AE 8-10 | Wave Height | SWEL |
| 242 | | N/A | VE 11 AE 8-10 | Wave Height | N/A |
| 243 | | N/A | VE 11 AE 8-10 | Wave Height | SWEL |
| 244 | | N/A | VE 11 AE 8 | Wave Height | N/A |
| 245 | | N/A | VE 11 AE 8 | Wave Height | SWEL |
| 246 | | N/A | VE 11 AE 8-9 | Wave Height | SWEL |
| 247 | | N/A | VE 11 AE 8-9 | Wave Height | SWEL |
| 248 | | N/A | VE 11 AE 8-9 | Wave Height | SWEL |
| 249 | | N/A | VE 11 AE 8-9 | Wave Height | SWEL |
| 250 | | N/A | VE 11 AE 7-9 | Wave Height | SWEL |
| 251 | | N/A | VE 11 AE 8-9 | Wave Height | SWEL |
| 252 | | N/A | VE 11 AE 8-9 | Wave Height | SWEL |

Table 25: Summary of Coastal Transect Mapping Considerations (continued)

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| | | Zone Designation and BFE (ft NAVD88) | Zone Designation and BFE (ft NAVD88) | | |
| 253 | | N/A | VE 11 AE 8-10 | Wave Height | SWEL |
| 254 | | N/A | VE 11 AE 8-10 | Wave Height | SWEL |
| 255 | | N/A | VE 11 AE 8-10 | Wave Height | SWEL |
| 256 | | N/A | VE 11 AE 8-10 | Wave Height | SWEL |
| 257 | | N/A | VE 12 AE 7-10 | Wave Height | SWEL |
| 258 | | N/A | VE 12 AE 7-10 | Wave Height | SWEL |
| 259 | | N/A | VE 12 AE 7-10 | Wave Height | SWEL |
| 260 | | N/A | VE 11-12 AE 7-10 | Wave Height | SWEL |
| 261 | | N/A | VE 11-12 AE 8-10 | Wave Height | SWEL |
| 262 | | N/A | VE 11-12 AE 8-10 | Wave Height | SWEL |
| 263 | | N/A | VE 12 AE 9-11 | Wave Height | SWEL |
| 264 | | N/A | VE 11-12 AE 9-10 | Wave Height | SWEL |
| 265 | | N/A | VE 11-12 AE 9-11 | Wave Height | SWEL |
| 266 | | N/A | VE 11, 13 AE 9-10 | Wave Height | SWEL |
| 267 | | N/A | VE 11-13 AE 9-11 | Wave Height | SWEL |
| 268 | | N/A | VE 13 AE 9-11 | Wave Height | SWEL |
| 269 | | N/A | VE 13 AE 9-11 | Wave Height | SWEL |
| 270 | | N/A | VE 13 AE 9-10 | Wave Height | SWEL |

Table 25: Summary of Coastal Transect Mapping Considerations (continued)

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| | | Zone Designation and BFE (ft NAVD88) | Zone Designation and BFE (ft NAVD88) | | |
| 271 | | N/A | VE 12-13 AE 9-11 | Wave Height | SWEL |
| 272 | | N/A | VE 12-13 AE 10-11 | Wave Height | SWEL |
| 273 | | N/A | VE 12-13 AE 10-11 | Wave Height | SWEL |
| 274 | | N/A | VE 12-13 AE 10-11 | Wave Height | SWEL |
| 275 | | N/A | VE 11, 13 AE 10-11 | Wave Height | SWEL |
| 276 | | N/A | VE 12 AE 9-11 | Wave Height | SWEL |
| 277 | | N/A | VE 11-13 AE 9-11 | Wave Height | SWEL |
| 278 | | N/A | VE 12-13 AE 10-11 | Wave Height | SWEL |
| 279 | | N/A | VE 12-13 AE 10-11 | Wave Height | SWEL |
| 280 | | N/A | VE 12-13 AE 9-11 | Wave Height | SWEL |
| 281 | | N/A | VE 12-13 AE 9-11 | Wave Height | SWEL |
| 282 | | N/A | VE 12-13 AE 9-11 | Wave Height | SWEL |
| 283 | | N/A | VE 13 AE 9-11 | Wave Height | SWEL |
| 284 | | N/A | VE 13 AE 9-11 | Wave Height | SWEL |
| 285 | | N/A | VE 13 AE 9-10 | Wave Height | SWEL |
| 286 | | N/A | VE 13 AE 9-10 | Wave Height | SWEL |
| 287 | | N/A | VE 11, 13 AE 9-11 | Wave Height | SWEL |
| 288 | | N/A | VE 11-12 AE 9-10 | Wave Height | SWEL |

Table 25: Summary of Coastal Transect Mapping Considerations (continued)

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| | | Zone Designation and BFE (ft NAVD88) | Zone Designation and BFE (ft NAVD88) | | |
| 289 | | N/A | VE 11-12 AE 9-10 | Wave Height | SWEL |
| 290 | | N/A | VE 12 AE 9-10 | Wave Height | SWEL |
| 291 | | N/A | VE 12 AE 9-10 | Wave Height | SWEL |
| 292 | | N/A | VE 11-12 AE 9-10 | Wave Height | SWEL |
| 293 | | N/A | VE 12 AE 9-10 | Wave Height | SWEL |
| 294 | | N/A | VE 12 AE 8-10 | Wave Height | SWEL |
| 295 | | N/A | VE 11-12 AE 8-10 | Wave Height | SWEL |
| 296 | | N/A | VE 12 AE 8-10 | Wave Height | SWEL |
| 297 | | N/A | VE 12 AE 8-10 | Wave Height | SWEL |
| 298 | | N/A | VE 11-12 AE 8-10 | Wave Height | SWEL |
| 299 | | N/A | VE 11 AE 8-9 | Wave Height | SWEL |
| 300 | | N/A | VE 11 AE 8-9 | Wave Height | SWEL |
| 301 | | N/A | VE 11 AE 8-10 | Wave Height | SWEL |
| 302 | | N/A | VE 11 AE 8-9 | Wave Height | SWEL |
| 303 | | N/A | VE 11 AE 8-9 | Wave Height | SWEL |
| 304 | | N/A | VE 11 AE 8-9 | Wave Height | SWEL |
| 305 | | N/A | VE 11 AE 8-10 | Wave Height | SWEL |
| 306 | | N/A | VE 11 AE 8-9 | Wave Height | N/A |

Table 25: Summary of Coastal Transect Mapping Considerations (continued)

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| | | Zone Designation and BFE (ft NAVD88) | Zone Designation and BFE (ft NAVD88) | | |
| 307 | | N/A | VE 11 AE 8-9 | Wave Height | N/A |
| 308 | | N/A | VE 11 AE 8-9 | Wave Height | N/A |
| 309 | | N/A | VE 11 AE 8-10 | Wave Height | SWEL |
| 310 | | N/A | VE 11 AE 8-10 | Wave Height | SWEL |
| 311 | | N/A | VE 10-11 AE 8-10 | Wave Height | SWEL |
| 312 | | N/A | VE 11 AE 8-10 | Wave Height | SWEL |
| 313 | | N/A | VE 11 AE 8-11 | Wave Height | SWEL |
| 314 | | N/A | VE 10-11 AE 8-10 | Wave Height | SWEL |
| 315 | | N/A | VE 10 AE 8-10 | Wave Height | SWEL |
| 316 | | N/A | VE 10 AE 8-9 | Wave Height | SWEL |
| 317 | | N/A | VE 9-10 AE 8-10 | Wave Height | N/A |
| 318 | | N/A | VE 10 AE 8-9 | Wave Height | N/A |
| 319 | | N/A | VE 10 AE 8-9 | Wave Height | N/A |
| 320 | | N/A | VE 10-11 AE 8-9 | Wave Height | N/A |
| 321 | | N/A | VE 10-11 AE 8-9 | Wave Height | N/A |
| 322 | | N/A | VE 9-11 AE 8-10 | Wave Height | N/A |
| 323 | | N/A | VE 9-12 AE 9-10 | Wave Height | N/A |
| 324 | | N/A | VE 11-12 AE 8-10 | Wave Height | SWEL |

Table 25: Summary of Coastal Transect Mapping Considerations (continued)

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| | | Zone Designation and BFE (ft NAVD88) | Zone Designation and BFE (ft NAVD88) | | |
| 325 | | N/A | VE 11 AE 9-11 | Wave Height | N/A |
| 326 | | N/A | VE 11 AE 9-10 | Wave Height | N/A |
| 327 | | N/A | VE 11 AE 9-10 | Wave Height | N/A |
| 328 | | N/A | VE 11-14 AE 9-12 | Wave Height | N/A |
| 329 | | N/A | VE 11-16 AE 9-12 | Wave Height | N/A |
| 330 | | N/A | VE 13-16 AE 8-13 | Wave Height | N/A |
| 331 | | N/A | VE 13-16 AE 9-13 | Wave Height | N/A |
| 332 | | N/A | VE 13-16 AE 10-13 | Wave Height | N/A |
| 333 | | N/A | VE 13-16 AE 10-13 | Wave Height | SWEL |
| 334 | | N/A | VE 13-16 AE 10-13 | Wave Height | N/A |
| 335 | | N/A | VE 13-15 AE 11-13 | Wave Height | N/A |
| 336 | | N/A | VE 13-15 AE 11-12 | Wave Height | N/A |
| 337 | | N/A | VE 13-15 | N/A | N/A |
| 338 | ✓ | N/A | VE 13-16 AE 11-13 | Wave Height | N/A |
| 339 | ✓ | N/A | VE 13-16 | N/A | N/A |
| 340 | ✓ | N/A | VE 12-16 AE 11-12 | Wave Height | N/A |
| 341 | ✓ | N/A | VE 12-17 AE 10-12 | Wave Height | N/A |
| 342 | ✓ | N/A | VE 12-15, 17 AE 9-12 | Wave Height | SWEL |
| 343 | ✓ | N/A | VE 13-15, 17 AE 10-12 | Wave Height | SWEL |

Table 25: Summary of Coastal Transect Mapping Considerations (continued)

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| | | Zone Designation and BFE (ft NAVD88) | Zone Designation and BFE (ft NAVD88) | | |
| 344 | ✓ | N/A | VE 12, 14-15, 17 AE 9-13 | Wave Height | SWEL |
| 345 | ✓ | N/A | VE 12, 14-15, 17 AE 10-13 | Wave Height | N/A |
| 346 | ✓ | N/A | VE 12, 14-15 AE 10-12 | Wave Height | N/A |
| 347 | ✓ | N/A | VE 12-15, 17 AE 10-12 | Wave Height | N/A |
| 348 | ✓ | N/A | VE 12-15 AE 11-12 | Wave Height | N/A |
| 349 | ✓ | N/A | VE 12-15, 17 AE 11 | Wave Height | N/A |
| 350 | ✓ | N/A | VE 12-15, 17 AE 11 | Wave Height | N/A |
| 351 | ✓ | N/A | VE 12-15 | N/A | N/A |
| 352 | ✓ | N/A | VE 12-17 AE 11-12 | Wave Height | N/A |
| 353 | ✓ | N/A | VE 12-15 AE 11-12 | Wave Height | N/A |
| 354 | | N/A | VE 13 AE 11 | Wave Height | N/A |
| 355 | | N/A | VE 12-17 AE 10-11 | Wave Height | N/A |
| 356 | | N/A | VE 13-14 AE 9-12 | Wave Height | N/A |
| 357 | | N/A | VE 12-14 AE 10-12 | Wave Height | N/A |
| 358 | | N/A | VE 14-15 AE 10-12 | Wave Height | N/A |
| 359 | | N/A | VE 14-15 AE 9-12 | Wave Height | SWEL |
| 360 | | N/A | VE 14-15 AE 10-12 | Wave Height | SWEL |
| 361 | | N/A | VE 14-15 AE 11-12 | Wave Height | SWEL |

Table 25: Summary of Coastal Transect Mapping Considerations (continued)

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| | | Zone Designation and BFE (ft NAVD88) | Zone Designation and BFE (ft NAVD88) | | |
| 362 | | N/A | VE 14-15 AE 10-12 | Wave Height | SWEL |
| 363 | | N/A | VE 14-15 AE 11-12 | Wave Height | SWEL |
| 364 | | N/A | VE 13, 15 AE 11-12 | Wave Height | SWEL |
| 365 | | N/A | VE 13, 15 AE 10-12 | Wave Height | SWEL |
| 366 | | N/A | VE 13-14 AE 10-12 | Wave Height | SWEL |
| 367 | | N/A | VE 13-14 AE 10-12 | Wave Height | SWEL |
| 368 | | N/A | VE 13-14 AE 10-12 | Wave Height | SWEL |
| 369 | | N/A | VE 12, 14 AE 10-12 | Wave Height | SWEL |
| 370 | | N/A | VE 12, 14 AE 10-12 | Wave Height | SWEL |
| 371 | | N/A | VE 12-14 AE 9-11 | Wave Height | SWEL |
| 372 | | N/A | VE 12-13 AE 9-11 | Wave Height | SWEL |
| 373 | | N/A | VE 12-16 AE 10-11 | Wave Height | N/A |
| 374 | | N/A | VE 12-16 AE 11-12 | Wave Height | N/A |
| 375 | | N/A | VE 12-15 AE 12 | Wave Height | N/A |
| 376 | ✓ | N/A | VE 12-16 AE 11-12 | Wave Height | N/A |
| 377 | ✓ | N/A | VE 12-16 AE 10-12 | Wave Height | N/A |
| 378 | ✓ | N/A | VE 12-15 AE 12 | Wave Height | N/A |
| 379 | ✓ | N/A | VE 12-16 AE 11-12 | Wave Height | N/A |

Table 25: Summary of Coastal Transect Mapping Considerations (continued)

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| | | Zone Designation and BFE (ft NAVD88) | Zone Designation and BFE (ft NAVD88) | | |
| 380 | ✓ | N/A | VE 12-13, 16 AE 11 | Wave Height | N/A |
| 381 | ✓ | N/A | VE 12-13, 16 AE 10-11 | PFD | N/A |
| 382 | ✓ | N/A | VE 12-13, 16 AE 10-11 | PFD | N/A |
| 383 | ✓ | N/A | VE 13, 16 AE 9-11 | Wave Height | SWEL |
| 384 | ✓ | N/A | VE 13, 16 AE 9-11 | PFD | SWEL |
| 385* | ✓ | N/A | VE 12-13, 16 AE 9-11 | Wave Height | SWEL |
| 386* | ✓ | N/A | VE 11-13, 15 AE 9-11 | Wave Height | N/A |
| 387* | ✓ | N/A | VE 11-13, 15 AE 9-11 | Wave Height | SWEL |
| 388* | ✓ | N/A | VE 11-13, 15 AE 9-11 | Wave Height | SWEL |
| 389* | ✓ | N/A | VE 11-13, 15 AE 9-11 | Wave Height | SWEL |

*Transect originates in Collier County, Florida. See Collier County FIS Report.

A LiMWA boundary has also been added in coastal areas subject to wave action for use by local communities in safe rebuilding practices. The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave.

6.5 FIRM Revisions

This FIS Report and the FIRM are based on the most up-to-date information available to FEMA at the time of its publication; however, flood hazard conditions change over time. Communities or private parties may request flood map revisions at any time. Certain types of requests require submission of supporting data. FEMA may also initiate a revision. Revisions may take several forms, including Letters of Map Amendment (LOMAs), Letters of Map Revision Based on Fill (LOMR-Fs), Letters of Map Revision (LOMRs) (referred to collectively as Letters of Map Change (LOMCs)), Physical Map Revisions (PMRs), and FEMA-contracted restudies. These types of revisions are further described below. Some of these types of revisions do not result in the republishing of the FIS Report. To assure that any user is aware of all revisions, it is advisable to contact the community repository of flood-hazard data (shown in Table 30, "Map Repositories").

6.5.1 Letters of Map Amendment

A LOMA is an official revision by letter to an effective NFIP map. A LOMA results from an administrative process that involves the review of scientific or technical data submitted by the owner or lessee of property who believes the property has incorrectly been included in a designated SFHA. A LOMA amends the currently effective FEMA map and establishes that a specific property is not located in a SFHA. A LOMA cannot be issued for properties located on the PFD (primary frontal dune).

To obtain an application for a LOMA, visit www.fema.gov/flood-maps/change-your-flood-zone and download the form “MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision Based on Fill”. Visit the “Flood Map-Related Fees” section to determine the cost, if any, of applying for a LOMA.

FEMA offers a tutorial on how to apply for a LOMA. The LOMA Tutorial Series can be accessed at www.fema.gov/flood-maps/tutorials.

For more information about how to apply for a LOMA, call the FEMA Mapping and Insurance eXchange; toll free, at 1-877-FEMA MAP (1-877-336-2627).

6.5.2 Letters of Map Revision Based on Fill

A LOMR-F is an official revision by letter to an effective NFIP map. A LOMR-F states FEMA’s determination concerning whether a structure or parcel has been elevated on fill above the base flood elevation and is, therefore, excluded from the SFHA.

Information about obtaining an application for a LOMR-F can be obtained in the same manner as that for a LOMA, by visiting www.fema.gov/flood-maps/change-your-flood-zone for the “MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision Based on Fill” or by calling the FEMA Mapping and Insurance eXchange, toll free, at 1-877-FEMA MAP (1-877-336-2627). Fees for applying for a LOMR-F, if any, are listed in the “Flood Map-Related Fees” section.

A tutorial for LOMR-F is available at www.fema.gov/flood-maps/tutorials.

6.5.3 Letters of Map Revision

A LOMR is an official revision to the currently effective FEMA map. It is used to change flood zones, floodplain and floodway delineations, flood elevations and planimetric features. All requests for LOMRs should be made to FEMA through the chief executive officer of the community, since it is the community that must adopt any changes and revisions to the map. If the request for a LOMR is not submitted through the chief executive officer of the community, evidence must be submitted that the community has been notified of the request.

To obtain an application for a LOMR, visit www.fema.gov/flood-maps/change-your-flood-zone and download the form “MT-2 Application Forms and Instructions for Conditional Letters of Map Revision and Letters of Map Revision”. Visit the “Flood Map-Related Fees” section to determine the cost of applying for a LOMR. For more information about how to apply for a LOMR, call the FEMA Mapping and Insurance eXchange; toll free, at 1-877-FEMA MAP (1-877-336-2627) to speak to a Map Specialist.

Previously issued mappable LOMCs (including LOMRs) that have been incorporated into the Lee County FIRM are listed in Table 26. Please note that this table only includes LOMCs that have been issued on the FIRM panels updated by this map revision. For all other areas within this county, users should be aware that revisions to the FIS Report made by prior LOMRs may not be reflected herein and users will need to continue to use the previously issued LOMRs to obtain the most current data.

Table 26: Incorporated Letters of Map Change

| Case Number | Effective Date | Flooding Source | FIRM Panel(s) |
|-------------|----------------|--------------------------------|------------------------------------------------------------------------------------|
| 18-04-3990P | 12-31-2019 | Trout Creek / Curry Lake Canal | 12071C0138G 12071C0139F ¹ |
| 17-04-5713P | 02-23-2018 | East Branch Yellow Fever Creek | 12071C0258G 12071C0259G 12071C0266G 12071C0267G |
| 16-04-2127P | 09-05-2016 | Hendry Creek | 12071C0419G |
| 14-04-8856P | 02-23-2016 | Imperial River | 12071C0659G |
| 11-04-5887P | 08-10-2012 | Estero River | 12071C0581G 12071C0583H 12071C0584F ² 12071C0592F ² |
| 10-04-0289P | 01-03-2011 | East Branch Yellow Fever Creek | 12071C0258G 12071C0259G 12071C0266G 12071C0267G |
| 09-04-3113P | 06-17-2010 | Imperial River | 12071C0657G 12071C0659G 12071C0676F ³ 12071C0678F ³ |
| 08-04-3125P | 04-30-2009 | Oak Creek | 12071C0659G |

¹ Although a portion of LOMR 18-04-3990P falls within the scope of this map revision, panel 12071C0139F was not revised. Therefore, users must continue to refer to the annotated FIRM attachment for this LOMR for FIRM panels 12071C0139F.

² Although a portion of LOMR 11-04-5887P falls within the scope of this map revision, panel 12071C0581F, 12071C0584F and 12071C0592F were not revised. Therefore, users must continue to refer to the annotated FIRM attachment for this LOMR for FIRM panels 12071C0581F, 12071C0584F, and 12071C0592F.

³ Although a portion of LOMR 09-04-3113P falls within the scope of this map revision, panel 12071C0676F, and 12071C0678F were not revised. Therefore, users must continue to refer to the annotated FIRM attachment for this LOMR for FIRM panels 12071C0676F and 12071C0678F.

6.5.4 Physical Map Revisions

A Physical Map Revisions (PMR) is an official republication of a community's NFIP map to effect changes to base flood elevations, floodplain boundary delineations, regulatory floodways and planimetric features. These changes typically occur as a result of structural works or improvements, annexations resulting in additional flood hazard areas or correction to base flood elevations or SFHAs.

The community's chief executive officer must submit scientific and technical data to FEMA to support the request for a PMR. The data will be analyzed and the map will be revised if warranted. The community is provided with copies of the revised information and is afforded a review period. When the base flood elevations are changed, a 90-day appeal period is provided. A 6-month adoption period for formal approval of the revised map(s) is also provided.

For more information about the PMR process, please visit www.fema.gov and visit the "Flood Map Revision Processes" section.

6.5.5 Contracted Restudies

The NFIP provides for a periodic review and restudy of flood hazards within a given community. FEMA accomplishes this through a national watershed-based mapping needs assessment strategy, known as the Coordinated Needs Management Strategy (CNMS). The CNMS is used by FEMA to assign priorities and allocate funding for new flood hazard analyses used to update the FIS Report and FIRM. The goal of CNMS is to define the validity of the engineering study data within a mapped inventory. The CNMS is used to track the assessment process, document engineering gaps and their resolution, and aid in prioritization for using flood risk as a key factor for areas identified for flood map updates. Visit www.fema.gov to learn more about the CNMS or contact the FEMA Regional Office listed in Section 8 of this FIS Report.

6.5.6 Community Map History

The current FIRM presents flooding information for the entire geographic area of Lee County. Previously, separate FIRMs, Flood Hazard Boundary Maps (FHBM) and/or Flood Boundary and Floodway Maps (FBFMs) may have been prepared for the incorporated communities and the unincorporated areas in the county that had identified SFHAs. Current and historical data relating to the maps prepared for the project area are presented in Table 27, "Community Map History." A description of each of the column headings and the source of the date is also listed below.

- *Community Name* includes communities falling within the geographic area shown on the FIRM, including those that fall on the boundary line, nonparticipating communities, and communities with maps that have been rescinded. Communities with No Special Flood Hazards are indicated by a footnote. If all maps (FHBM, FBFM, and FIRM) were rescinded for a community, it is not listed in this table unless SFHAs have been identified in this community.
- *Initial Identification Date (First NFIP Map Published)* is the date of the first NFIP map that identified flood hazards in the community. If the FHBM has been converted to a FIRM, the initial FHBM date is shown. If the community has never been mapped, the upcoming effective date or "pending" (for Preliminary FIS

Reports) is shown. If the community is listed in Table 27 but not identified on the map, the community is treated as if it were unmapped.

- *Initial FHBM Effective Date* is the effective date of the first FHBM. This date may be the same date as the Initial NFIP Map Date.
- *FHBM Revision Date(s)* is the date(s) that the FHBM was revised, if applicable.
- *Initial FIRM Effective Date* is the date of the first effective FIRM for the community.
- *FIRM Revision Date(s)* is the date(s) the FIRM was revised, if applicable. This is the revised date that is shown on the FIRM panel, if applicable. As countywide studies are completed or revised, each community listed should have its FIRM dates updated accordingly to reflect the date of the countywide study. Once the FIRMs exist in countywide format, as PMRs of FIRM panels within the county are completed, the FIRM Revision Dates in the table for each community affected by the PMR are updated with the date of the PMR, even if the PMR did not revise all the panels within that community.

The initial effective date for the Lee County FIRMs in countywide format was 08/28/2008.

Table 27: Community Map History

| Community Name | Initial Identification Date | Initial FHBM Effective Date | FHBM Revision Date(s) | Initial FIRM Effective Date | FIRM Revision Date(s) |
|----------------------------------------|-----------------------------|-----------------------------|-----------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Bonita Springs, City of ^{1,2} | 09/19/1984 | N/A | N/A | 09/19/1984 | 11/17/2022 12/07/2018 08/28/2008 05/05/2003 12/20/2000 07/20/1998 09/20/1996 03/15/1994 11/04/1992 11/03/1989 |
| Cape Coral, City of | 03/27/1975 | 03/27/1975 | N/A | 08/17/1981 | 11/17/2022 08/28/2008 09/18/1985 |
| Estero, Village of ^{1,2} | 09/19/1984 | N/A | N/A | 09/19/1984 | 11/17/2022 12/07/2018 08/28/2008 05/05/2003 12/20/2000 07/20/1998 09/20/1996 03/15/1994 11/04/1992 11/03/1989 |

Table 27: Community Map History (continued)

| Community Name | Initial Identification Date | Initial FHBM Effective Date | FHBM Revision Date(s) | Initial FIRM Effective Date | FIRM Revision Date(s) |
|------------------------------------------|-----------------------------|-----------------------------|-----------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Fort Myers, City of | 10/30/1970 | 10/30/1970 | N/A | 04/16/1979 | 11/17/2022 12/07/2018 08/28/2008 11/15/1984 |
| Fort Myers Beach, Town of ^{1,2} | 09/19/1984 | N/A | N/A | 09/19/1984 | 11/17/2022 12/07/2018 08/28/2008 05/05/2003 12/20/2000 07/20/1998 09/20/1996 03/15/1994 11/04/1992 11/03/1989 |
| Lee County, Unincorporated Areas | 09/19/1984 | N/A | N/A | 09/19/1984 | 11/17/2022 12/07/2018 08/28/2008 05/05/2003 12/20/2000 07/20/1998 09/20/1996 03/15/1994 11/04/1992 11/03/1989 |
| Sanibel, City of | 07/23/1976 | 07/23/1976 | N/A | 04/16/1979 | 11/17/2022 08/28/2008 09/29/1996 11/04/1992 10/15/1985 10/01/1983 |

¹ Dates for this community were taken from Lee County, Unincorporated Areas

² This community did not have a FIRM prior to the first countywide FIRM for Lee County

SECTION 7.0 – CONTRACTED STUDIES AND COMMUNITY COORDINATION

7.1 Contracted Studies

Table 28 provides a summary of the contracted studies, by flooding source, that are included in this FIS Report.

Table 28: Summary of Contracted Studies Included in this FIS Report

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|----------------------------|------------------|--------------------------|------------------|---------------------|----------------------------------------------------------------------------|
| Bayshore Creek | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| Bayshore Creek | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Lee County, Unincorporated Areas |
| Bedman Creek/ Dog Canal | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| Bedman Creek/ Dog Canal | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Lee County, Unincorporated Areas |
| Billy Creek | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas; Fort Myers, City of |
| Billy Creek | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Lee County, Unincorporated Areas; Fort Myers, City of |
| Caloosahatchee River | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Cape Coral, City of; Lee County, Unincorporated Areas; Fort Myers, City of |
| Carrell Canal | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Fort Myers, City of |
| Carrell Canal | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Fort Myers, City of |
| Chapel Branch Creek | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| Chapel Branch Creek | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Lee County, Unincorporated Areas |
| Charlotte Harbor | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Cape Coral, City of; Lee County, Unincorporated Areas |
| Cypress Creek | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas |

Table 28: Summary of Contracted Studies Included in this Report (continued)

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|--------------------------------|------------------|--------------------------|------------------|---------------------|----------------------------------------------------------------------------------------------------------|
| Cypress Creek | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Lee County, Unincorporated Areas |
| Daughtrey Creek | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| Daughtrey Creek | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Lee County, Unincorporated Areas |
| East Branch Daughtrey Creek | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| East Branch Daughtrey Creek | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Lee County, Unincorporated Areas |
| East Branch Yellow Fever Creek | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Cape Coral, City of; Lee County, Unincorporated Areas |
| East Branch Yellow Fever Creek | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Cape Coral, City of; Lee County, Unincorporated Areas |
| Estero Bay | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Bonita Springs, City of; Estero, Village of; Fort Myers Beach, Town of; Lee County, Unincorporated Areas |
| Estero River | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Estero, Village of |
| Estero River | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Estero, Village of; Lee County, Unincorporated Areas |
| Fichter Creek | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| Fichter Creek | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Lee County, Unincorporated Areas |

Table 28: Summary of Contracted Studies Included in this Report (continued)

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|-----------------------------|------------------|--------------------------|------------------|---------------------|--------------------------------------------------------------------------------------------------------|
| Ford Street Canal | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Fort Myers, City of |
| Ford Street Canal | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Fort Myers, City of |
| Gasparilla Sound | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| Gulf of Mexico ¹ | 11/17/2022 | Compass | HSFE60-15-D-0003 | November 2021 | Fort Myers Beach, Town of; Sanibel, City of |
| Gulf of Mexico | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Bonita Springs, City of; Fort Myers Beach, Town of; Lee County, Unincorporated Areas; Sanibel, City of |
| Halfway Creek | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Estero, Village of; Lee County, Unincorporated Areas |
| Halfway Creek | 12/07/2018 | BakerAECOM | HSFEHQ-09-D-0368 | 2012 | Estero, Village of |
| Halls Creek | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Lee County, Unincorporated Areas |
| Hancock Creek | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Cape Coral, City of; Lee County, Unincorporated Areas |
| Hancock Creek | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Cape Coral, City of |
| Hendry Creek | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Lee County, Unincorporated Areas |
| Hendry Creek West | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| Hickey Creek | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas |

Table 28: Summary of Contracted Studies Included in this Report (continued)

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|--------------------------|------------------|---------------------------------|-------------------------------|---------------------|-------------------------------------------------------|
| Hickey Creek Drainageway | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| Hickey Creek Drainageway | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Lee County, Unincorporated Areas |
| Imperial River | 07/20/1998 | Woodward-Clyde Federal Services | EMW-C-4678, Task Order No. 37 | March 1995 | Lee County, Unincorporated Areas |
| Kickapoo Creek | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Lee County, Unincorporated Areas |
| L-3 Canal | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Fort Myers, City of |
| Leitner Creek | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Bonita Springs, City of |
| Leitner Creek | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Bonita Springs, City of |
| Little Bokeelia Bay | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| Manuels Branch | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Fort Myers, City of |
| Manuels Branch | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Fort Myers, City of |
| Marsh Point Creek | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| Marsh Point Creek | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Lee County, Unincorporated Areas |
| Matlacha Pass | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Cape Coral, City of; Lee County, Unincorporated Areas |
| Mullock Creek | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas |

Table 28: Summary of Contracted Studies Included in this Report (continued)

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|-------------------------|------------------|--------------------------|------------------|---------------------|----------------------------------------------------|
| Mullock Creek | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Lee County, Unincorporated Areas |
| Mullock Creek Tributary | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| North Colonial Waterway | 12/07/2018 | BakerAECOM | HSFEHQ-09-D-0368 | 2012 | Fort Myers, City of |
| Oak Creek | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Bonita Springs, City of |
| Oak Creek | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Bonita Springs, City of |
| Orange River | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| Orange River | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Lee County, Unincorporated Areas |
| Owl Creek | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| Owl Creek | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Lee County, Unincorporated Areas |
| Palm Creek | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| Palm Creek | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Lee County, Unincorporated Areas |
| Pine Island Sound | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas; Sanibel, City of |
| Popash Creek | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| Popash Creek | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Lee County, Unincorporated Areas |

Table 28: Summary of Contracted Studies Included in this Report (continued)

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|-----------------------------------------------------------------|------------------|--------------------------------|----------------------|---------------------|----------------------------------------------------------------------------------------------|
| Powell Creek/ Powell Bypass | 11/17/2022 | RAMPP | HSFEHQ- 09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| Powell Creek/ Powell Bypass | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0- 0137 | February 2002 | Lee County, Unincorporated Areas |
| Powell Creek (Upstream of Confluence of Powell Bypass) | 03/15/1994 | * | * | * | Lee County, Unincorporated Areas |
| Powell Creek Tributary No. 1 | 03/15/1994 | * | * | * | Lee County, Unincorporated Areas |
| San Carlos Bay | 11/17/2022 | RAMPP | HSFEHQ- 09-D-0369 | August 2018 | Fort Myers Beach, Town of; Lee County, Unincorporated Areas; Sanibel, City of |
| Six Mile Cypress Slough | 11/17/2022 | RAMPP | HSFEHQ- 09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| Six Mile Cypress Slough | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0- 0137 | February 2002 | Fort Myers, City of; Lee County, Unincorporated Areas |
| South Branch | 12/07/2018 | BakerAECOM | HSFEHQ- 09-D-0368 | 2012 | Estero, Village of |
| Spanish Canal | 11/17/2022 | RAMPP | HSFEHQ- 09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| Spanish Creek | 11/17/2022 | RAMPP | HSFEHQ- 09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| Spanish Creek | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0- 0137 | February 2002 | Lee County, Unincorporated Areas |
| Spring Creek | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0- 0137 | February 2002 | Bonita Springs, City of |
| Stricklin Gully | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0- 0137 | February 2002 | Lee County, Unincorporated Areas |

Table 28: Summary of Contracted Studies Included in this Report (continued)

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|----------------------------------------------|------------------|--------------------------|------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------|
| Stroud Creek | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Lee County, Unincorporated Areas |
| Telegraph Creek | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| Telegraph Creek | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Lee County, Unincorporated Areas |
| Ten Mile Canal | 12/07/2018 | BakerAECOM | HSFEHQ-09-D-0368 | 2012 | Fort Myers, City of; Lee County, Unincorporated Areas |
| Tributary L-1 (Yellow Fever Creek Tributary) | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| Tributary L-2 (Yellow Fever Creek Tributary) | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| Trout Creek/ Curry Lake Canal | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Lee County, Unincorporated Areas |
| Trout Creek/ Curry Lake Canal | 08/28/2008 | Taylor Engineering, Inc. | EMA-97-C0-0137 | February 2002 | Lee County, Unincorporated Areas |
| Winkler Canal | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Fort Myers, City of; Lee County, Unincorporated Areas |
| Yellow Fever Creek | 11/17/2022 | RAMPP | HSFEHQ-09-D-0369 | August 2018 | Cape Coral, City of; Lee County, Unincorporated Areas |
| Zone A Ponding Areas | 03/15/1994 | * | * | * | Bonita Springs, City of; Cape Coral, City of; Fort Myers, City of; Lee County, Unincorporated Areas; Estero, Village of |

*Data not available

¹The following revisions were made by Compass, per comments addressed during the appeal-period