

# 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>
<b>SECTION 1.0 – INTRODUCTION</b>	<b>1</b>
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
 <b>SECTION 2.0 – FLOODPLAIN MANAGEMENT APPLICATIONS</b>	 <b>20</b>
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
 <b>SECTION 3.0 – INSURANCE APPLICATIONS</b>	 <b>38</b>
3.1 National Flood Insurance Program Insurance Zones	38
 <b>SECTION 4.0 – AREA STUDIED</b>	 <b>39</b>
4.1 Basin Description	39
4.2 Principal Flood Problems	39
4.3 Non-Levee Flood Protection Measures	40
4.4 Levees	40
 <b>SECTION 5.0 – ENGINEERING METHODS</b>	 <b>41</b>
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>
<b>SECTION 5.0 – ENGINEERING METHODS (CONTINUED)</b>	
5.3.4 Wave Hazard Analyses	70
5.4 Alluvial Fan Analyses	137
<b>SECTION 6.0 – MAPPING METHODS</b>	<b>137</b>
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>
<b>SECTION 6.0 – MAPPING METHODS (CONTINUED)</b>	
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
<b>SECTION 7.0 – CONTRACTED STUDIES AND COMMUNITY COORDINATION</b>	<b>218</b>
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>
<b>SECTION 7.0 – CONTRACTED STUDIES AND COMMUNITY COORDINATION (CONTINUED)</b>	
7.2 Community Meetings	226
<b>SECTION 8.0 – ADDITIONAL INFORMATION</b>	<b>229</b>
<b>SECTION 9.0 – BIBLIOGRAPHY AND REFERENCES</b>	<b>230</b>

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

<u>Exhibits</u>	<u>Panel</u>
Flood Profiles	
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  
Transect 119

229-230 T  
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**

<b>Transect Profiles</b>	<b><u>Panel</u></b>
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**

<b>Transect Profiles</b>	<b><u>Panel</u></b>
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**

<b>Transect Profiles</b>	<b><u>Panel</u></b>
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 <sup>2</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A <sup>1</sup>	800	N/A	N/A	N/A	*	0.8 <sup>4</sup>	N/A	N/A
B <sup>1</sup>	2,100	N/A	N/A	N/A	*	3.4 <sup>4</sup>	N/A	N/A
C <sup>1</sup>	3,400	N/A	N/A	N/A	*	3.7 <sup>4</sup>	N/A	N/A
D <sup>1</sup>	4,237	N/A	N/A	N/A	*	4.0 <sup>4</sup>	N/A	N/A
E	6,533	220	445	2.3	9.7 <sup>3</sup>	8.6 <sup>4</sup>	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

<sup>1</sup>Floodway not computed/shown for this cross section

<sup>2</sup>Feet above mouth

<sup>3</sup>Combined coastal and riverine effects from Caloosahatchee River and Bayshore Creek

<sup>4</sup>Elevation 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 <sup>1</sup>	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 <sup>3</sup>	7.7	0.8
B	2,730	1,610	3,715	1.1	*	7.9 <sup>3</sup>	8.6	0.7
C	4,160	1,142	3,632	1.1	10.7 <sup>2</sup>	9.9 <sup>3</sup>	10.3	0.4
D	5,304	266	1,431	2.9	11.2 <sup>2</sup>	10.7 <sup>3</sup>	11.1	0.4
E	6,562	304	1,689	2.5	12.2 <sup>2</sup>	12.0 <sup>3</sup>	12.4	0.4
F	7,731	375	2,080	2.0	12.7 <sup>2</sup>	12.6 <sup>3</sup>	13.1	0.5
G	8,665	378	1,987	2.0	13.2 <sup>2</sup>	13.1 <sup>3</sup>	13.7	0.6
H	9,705	452	2,846	1.4	13.8 <sup>2</sup>	13.8 <sup>3</sup>	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

<sup>1</sup>Feet above mouth

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

<sup>3</sup>Elevation 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 <sup>2</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A <sup>1</sup>	505	N/A	N/A	N/A	*	1.3 <sup>4</sup>	N/A	N/A
B	3,482	115	787	5.5	*	4.8 <sup>4</sup>	5.2	0.4
C	5,126	178	1,244	3.4	*	6.1 <sup>4</sup>	6.6	0.5
D	7,656	155	1,750	1.6	*	6.9 <sup>4</sup>	7.6	0.7
E	8,475	60	548	5.2	9.4 <sup>3</sup>	7.7 <sup>4</sup>	8.6	0.9
F	10,258	295	1,475	1.9	10.0 <sup>3</sup>	9.4 <sup>4</sup>	10.3	0.9
G	11,665	176	1,319	2.2	10.5 <sup>3</sup>	10.2 <sup>4</sup>	11.1	0.9
H	12,825	575	4,289	0.7	10.9 <sup>3</sup>	10.7 <sup>4</sup>	11.7	1.0
I	13,695	1,144	6,316	0.5	10.9 <sup>3</sup>	10.8 <sup>4</sup>	11.8	1.0
J	15,035	744	4,009	0.7	11.0 <sup>3</sup>	10.8 <sup>4</sup>	11.8	1.0
K	16,585	629	2,777	1.0	11.2 <sup>3</sup>	11.1 <sup>4</sup>	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

<sup>1</sup>Floodway not computed/shown for this cross section

<sup>2</sup>Feet above mouth

<sup>3</sup>Combined coastal and riverine effects from Caloosahatchee River and Billy Creek

<sup>4</sup>Elevation 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 <sup>1</sup>	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 <sup>2</sup>	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

<sup>1</sup>Feet above mouth

<sup>2</sup>Elevation 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 <sup>2</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A <sup>1</sup>	0	N/A	N/A	N/A	*	-0.2 <sup>3</sup>	N/A	N/A
B <sup>1</sup>	1,300	N/A	N/A	N/A	*	0.9 <sup>3</sup>	N/A	N/A
C <sup>1</sup>	3,600	N/A	N/A	N/A	*	1.6 <sup>3</sup>	N/A	N/A
D <sup>1</sup>	4,800	N/A	N/A	N/A	*	1.8 <sup>3</sup>	N/A	N/A
E <sup>1</sup>	5,817	N/A	N/A	N/A	*	2.8 <sup>3</sup>	N/A	N/A
F <sup>1</sup>	7,292	N/A	N/A	N/A	*	5.5 <sup>3</sup>	N/A	N/A
G	8,084	62	293	2.1	*	6.4 <sup>3</sup>	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

<sup>1</sup>Floodway not computed/shown for this cross section

<sup>2</sup>Feet above mouth

<sup>3</sup>Elevation 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 <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0	68	427	7.3	*	2.2 <sup>3</sup>	3.2	1.0
B	1,627	376	1,218	2.6	*	5.9 <sup>3</sup>	6.3	0.4
C	4,590	54	579	4.9	10.1 <sup>2</sup>	8.6 <sup>3</sup>	9.6	1.0
D	5,290	706	2,928	1.0	10.4 <sup>2</sup>	9.7 <sup>3</sup>	10.6	0.9
E	5,620	470	2,107	1.3	10.5 <sup>2</sup>	9.9 <sup>3</sup>	10.8	0.9
F	6,780	1,110	2,931	1.0	11.1 <sup>2</sup>	10.8 <sup>3</sup>	11.8	1.0
G	7,531	778	3,158	0.9	11.5 <sup>2</sup>	11.3 <sup>3</sup>	12.3	1.0
H	8,111	1,479	5,538	0.5	11.7 <sup>2</sup>	11.6 <sup>3</sup>	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

<sup>1</sup>Feet above mouth

<sup>2</sup>Combined coastal and riverine effects from Caloosahatchee River and Cypress Creek

<sup>3</sup>Elevation 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 <sup>2</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A <sup>1</sup>	3,100	N/A	N/A	N/A	*	1.0 <sup>4</sup>	N/A	N/A
B <sup>1</sup>	4,157	N/A	N/A	N/A	*	1.1 <sup>4</sup>	N/A	N/A
C	5,513	60	382	4.5	*	2.1 <sup>4</sup>	2.5	0.4
D	7,013	241	1,020	1.7	*	3.5 <sup>4</sup>	4.1	0.6
E	8,513	47	384	4.5	*	4.6 <sup>4</sup>	5.2	0.6
F	10,243	100	829	2.1	9.3 <sup>3</sup>	7.0 <sup>4</sup>	7.4	0.4
G	11,751	226	789	2.0	9.7 <sup>3</sup>	9.5 <sup>4</sup>	10.1	0.6
H	12,336	81	613	2.5	9.8 <sup>3</sup>	9.6 <sup>4</sup>	10.4	0.8
I	13,636	50	440	3.5	10.2 <sup>3</sup>	10.0 <sup>4</sup>	10.9	0.9
J	16,236	88	391	4.0	12.9 <sup>3</sup>	12.8 <sup>4</sup>	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

<sup>1</sup>Floodway not computed/shown for this cross section

<sup>2</sup>Feet above mouth

<sup>3</sup>Combined coastal and riverine effects from Caloosahatchee River and Daughtrey Creek

<sup>4</sup>Elevation 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: DAUGHTREY CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0	109	493	1.6	*	3.5 <sup>3</sup>	4.5	1.0
B	687	38	299	2.4	*	5.3 <sup>3</sup>	6.2	0.9
C	1,914	80	512	1.4	9.4 <sup>2</sup>	7.0 <sup>3</sup>	8.0	1.0
D	3,369	171	922	0.8	10.0 <sup>2</sup>	10.0 <sup>3</sup>	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

<sup>1</sup>Feet above mouth

<sup>2</sup>Combined coastal and riverine effects from Caloosahatchee River and East Branch Daughtrey Creek

<sup>3</sup>Elevation 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		FLOODING SOURCE: EAST BRANCH DAUGHTREY CREEK	
	AND INCORPORATED AREAS			

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0	212	256	4.7	*	3.2 <sup>3</sup>	3.9	0.7
B	1,130	212	673	1.8	*	6.8 <sup>3</sup>	7.8	1.0
C	1,780	238	994	1.2	8.4 <sup>2</sup>	7.4 <sup>3</sup>	8.4	1.0
D	2,180	249	800	1.5	11.0 <sup>2</sup>	11.0 <sup>3</sup>	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

<sup>1</sup>Feet above mouth

<sup>2</sup>Combined coastal and riverine effects from Caloosahatchee River and East Branch Yellow Fever Creek

<sup>3</sup>Elevation 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 <sup>1</sup>	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 <sup>3</sup>	4.4	0.0
B	2,050	170	1,286	2.4	*	4.7 <sup>3</sup>	4.8	0.1
C	2,800	80	783	3.9	*	4.8 <sup>3</sup>	5.1	0.3
D	3,800	195	1,963	1.4	*	4.9 <sup>3</sup>	5.4	0.5
E	4,600	130	1,148	2.3	*	5.0 <sup>3</sup>	5.5	0.5
F	5,100	150	1,413	1.9	*	5.1 <sup>3</sup>	5.6	0.5
G	6,281	120	1,226	2.2	10.6 <sup>2</sup>	5.3 <sup>3</sup>	5.8	0.5
H	8,861	231	1,497	1.6	10.7 <sup>2</sup>	6.1 <sup>3</sup>	6.5	0.4
I	9,911	200	1,505	1.6	10.7 <sup>2</sup>	6.3 <sup>3</sup>	6.7	0.4
J	11,024	94	1,018	2.4	10.7 <sup>2</sup>	6.4 <sup>3</sup>	6.8	0.4
K	13,511	325	1,874	1.3	10.8 <sup>2</sup>	6.9 <sup>3</sup>	7.3	0.4
L	14,511	185	1,020	2.4	10.8 <sup>2</sup>	7.2 <sup>3</sup>	7.6	0.4
M	15,745	90	915	2.7	10.8 <sup>2</sup>	7.7 <sup>3</sup>	8.0	0.3
N	17,855	64	557	3.4	10.8 <sup>2</sup>	8.3 <sup>3</sup>	8.6	0.3
O	19,251	653	1,972	1.0	10.8 <sup>2</sup>	8.9 <sup>3</sup>	9.1	0.2
P	20,265	137	412	4.6	11.6 <sup>2</sup>	11.0 <sup>3</sup>	11.0	0.0
Q	21,188	200	763	1.8	13.1 <sup>2</sup>	12.9 <sup>3</sup>	13.2	0.3
R	23,311	750	1,966	0.7	13.9 <sup>2</sup>	13.9 <sup>3</sup>	14.7	0.8
S	24,040	469	1,328	0.8	14.3 <sup>2</sup>	14.3 <sup>3</sup>	14.9	0.6
T	25,308	265	700	1.5	15.7 <sup>2</sup>	15.7 <sup>3</sup>	16.3	0.6

<sup>1</sup>Feet above mouth

<sup>2</sup>Combined coastal and riverine effects from Estero Bay and Estero River

<sup>3</sup>Elevation 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 <sup>1</sup>	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 <sup>2</sup>	16.4 <sup>3</sup>	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

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

<sup>1</sup>Feet above mouth

<sup>2</sup>Combined coastal and riverine effects from Caloosahatchee River and Fichter Creek

<sup>3</sup>Elevation 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 <sup>1</sup>	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 <sup>2</sup>	9.0 <sup>3</sup>	9.7	0.7
B	2,622	36	171	3.2	9.8 <sup>2</sup>	9.3 <sup>3</sup>	10.0	0.7
C	3,572	35	121	4.5	10.8 <sup>2</sup>	10.5 <sup>3</sup>	10.8	0.3
D	4,207	38	160	3.4	12.1 <sup>2</sup>	12.1 <sup>3</sup>	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

<sup>1</sup>Feet above mouth

<sup>2</sup>Combined coastal and riverine effects from Caloosahatchee River and Ford Street Canal

<sup>3</sup>Elevation 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 <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
1515 (85,2) 1516 (86,2) 1515 (85,2) 1516 (86,2) 1631 (85,2) 1746 (84,2) 1747 (85,20)	A	1,448	709	1,412	1.0	*	1.6 <sup>4</sup>	1.8	0.2
	B	4,078	922	1,322	1.1	*	1.9 <sup>4</sup>	2.1	0.2
	C	6,189	950	992	1.5	*	3.2 <sup>4</sup>	3.2	0.0
	D	7,364	185	490	3.0	*	4.1 <sup>4</sup>	4.1	0.0
	E	9,546	565	836	1.7	*	7.8 <sup>4</sup>	7.8	0.0
	F	11,726	455	1,142	1.3	10.2 <sup>2</sup>	8.8 <sup>4</sup>	8.8	0.0
	G	13,026	900	2,570	0.6	10.3 <sup>2</sup>	9.0 <sup>4</sup>	9.0	0.0
	H	14,960	660	1,303	1.1	10.4 <sup>2</sup>	9.7 <sup>4</sup>	9.8	0.1
	I	16,124	470	1,115	1.3	10.5 <sup>2</sup>	10.0 <sup>4</sup>	10.1	0.1
	J	17,217	118	531	2.7	13.7 <sup>2</sup>	13.7 <sup>4</sup>	13.9	0.2
	K	17,380	231	1,262	1.0	13.8 <sup>2</sup>	13.7 <sup>4</sup>	14.3	0.6
	L	18,505	460	1,704	0.7	13.9 <sup>2</sup>	13.8 <sup>4</sup>	14.4	0.6
	M	19,891	400	1,551	0.8	14.1 <sup>3</sup>	13.9	14.5	0.6
	N	20,007	400	1,678	1.6	14.1 <sup>3</sup>	14.8	15.4	0.6
	O	21,287	500	1,479	0.8	14.1 <sup>3</sup>	14.8	15.7	0.9
	P	22,635	500	2,526	0.5	14.7 <sup>3</sup>	16.4	17.1	0.7

<sup>1</sup>Feet above mouth

<sup>2</sup>Combined coastal and riverine effects from Estero Bay and Halfway Creek

<sup>3</sup>The 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.

<sup>4</sup>Elevation 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		FLOODWAY DATA	
	LEE COUNTY, FLORIDA AND INCORPORATED AREAS		FLOODING SOURCE: HALFWAY CREEK	

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

<sup>1</sup>Feet above mouth

<sup>2</sup>Elevation 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 <sup>2</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A <sup>1</sup>	1,000	N/A	N/A	N/A	*	0.0 <sup>4</sup>	N/A	N/A
B	2,696	91	814	3.3	*	1.6 <sup>4</sup>	2.2	0.6
C	4,136	226	1,943	1.2	*	2.1 <sup>4</sup>	2.6	0.5
D	6,005	140	1,133	2.0	*	2.3 <sup>4</sup>	2.7	0.4
E	7,435	198	1,057	0.5	*	2.5 <sup>4</sup>	2.9	0.4
F	8,635	237	2,585	0.2	*	2.5 <sup>4</sup>	2.9	0.4
G	9,935	153	991	0.5	*	2.5 <sup>4</sup>	2.9	0.4
H	12,135	134	1,164	0.4	*	2.5 <sup>4</sup>	2.9	0.4
I	13,310	68	524	1.0	*	2.5 <sup>4</sup>	2.9	0.4
J	14,567	188	503	1.0	*	5.0 <sup>4</sup>	5.9	0.9
K	15,626	90	288	1.3	*	5.5 <sup>4</sup>	6.3	0.8
L	16,350	47	162	1.2	*	5.9 <sup>4</sup>	6.8	0.9
M	17,028	29	203	1.0	8.4 <sup>3</sup>	6.5 <sup>4</sup>	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

<sup>1</sup>Floodway not computed/shown for this cross section

<sup>2</sup>Feet above mouth

<sup>3</sup>Combined coastal and riverine effects from Caloosahatchee River and Hancock Creek

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

<sup>1</sup>Floodway not computed/shown for this cross section

<sup>2</sup>Feet above mouth

<sup>3</sup>Total width / width shown

<sup>4</sup>Elevation 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 <sup>1</sup>	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 <sup>2</sup>	4.0	0.9
B	5,405	54	376	1.8	*	6.9 <sup>2</sup>	6.9	0.0
C	10,372	50	148	0.2	*	7.0 <sup>2</sup>	7.3	0.3

<sup>1</sup>Feet above mouth

<sup>2</sup>Elevation 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 <sup>1</sup>	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 <sup>3</sup>	3.2	1.0
B	991	90	873	6.5	*	5.0 <sup>3</sup>	5.3	0.3
C	1,667	144	941	6.1	*	6.2 <sup>3</sup>	6.7	0.5
D	2,891	318	2,284	2.3	*	7.7 <sup>3</sup>	8.2	0.5
E	4,391	945	5,239	1.0	*	8.2 <sup>3</sup>	8.9	0.7
F	5,691	1,118	4,348	1.2	9.7 <sup>2</sup>	8.5 <sup>3</sup>	9.2	0.7
G	7,091	196	1,543	3.4	9.9 <sup>2</sup>	9.0 <sup>3</sup>	9.7	0.7
H	8,813	1,006	4,551	1.2	10.2 <sup>2</sup>	9.6 <sup>3</sup>	10.5	0.9

<sup>1</sup>Feet above mouth

<sup>2</sup>Combined coastal and riverine effects from Caloosahatchee River and Hickey Creek

<sup>3</sup>Elevation 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 <sup>1</sup>	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

<sup>1</sup>Feet 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 <sup>1</sup>	WIDTH (FEET) <sup>2</sup>	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	2,000	130	927	5.3	*	1.3 <sup>3</sup>	1.3	0.0
B	4,000	199	1,706	2.9	*	1.7 <sup>3</sup>	2.0	0.3
C	5,000	210	1,507	3.3	*	1.9 <sup>3</sup>	2.2	0.3
D	7,000	228	1,812	2.7	*	2.3 <sup>3</sup>	2.6	0.3
E	10,000	280	2,033	2.4	*	2.8 <sup>3</sup>	3.0	0.2
F	11,000	240	2,205	2.2	*	2.9 <sup>3</sup>	3.1	0.2
G	13,250	255	1,854	2.7	*	3.2 <sup>3</sup>	3.4	0.2
H	13,450	260	1,851	2.7	*	3.2 <sup>3</sup>	3.4	0.2
I	15,000	150	1,441	3.4	*	3.4 <sup>3</sup>	3.6	0.2
J	22,000	110	1,079	2.8	*	5.2 <sup>3</sup>	5.6	0.4
K	23,000	150	1,060	2.9	*	5.6 <sup>3</sup>	6.0	0.4
L	23,750	150	1,327	2.3	*	5.9 <sup>3</sup>	6.3	0.4
M	24,150	150	1,138	2.7	*	6.4 <sup>3</sup>	6.8	0.4
N	26,000	310	1,441	2.1	*	7.3 <sup>3</sup>	8.0	0.7
O	27,600	296	2,081	1.5	*	8.3 <sup>3</sup>	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

<sup>1</sup>Feet above mouth

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

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

<sup>1</sup>Floodway not computed/shown for this cross section

<sup>2</sup>Feet above mouth

<sup>3</sup>Elevation 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 <sup>1</sup>	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

<sup>1</sup>Feet 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 <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	837	68	418	1.7	9.3 <sup>2</sup>	6.0 <sup>3</sup>	6.4	0.4
B	3,611	18	126	5.1	9.4 <sup>2</sup>	7.7 <sup>3</sup>	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

<sup>1</sup>Feet above mouth

<sup>2</sup>Combined coastal and riverine effects from Estero Bay and Leitner Creek

<sup>3</sup>Elevation 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 <sup>2</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A <sup>1</sup>	0	N/A	N/A	N/A	*	0.2 <sup>4</sup>	N/A	N/A
B <sup>1</sup>	380	N/A	N/A	N/A	*	2.0 <sup>4</sup>	N/A	N/A
C	1,562	30	134	2.8	*	6.4 <sup>4</sup>	6.4	0.0
D	1,799	36	182	2.0	*	7.1 <sup>4</sup>	7.1	0.0
E	2,527	48	118	2.8	*	7.5 <sup>4</sup>	7.5	0.0
F	2,961	38	134	2.5	*	8.3 <sup>4</sup>	8.3	0.0
G	4,442	34	74	3.7	10.4 <sup>3</sup>	10.3 <sup>4</sup>	10.3	0.0
H	4,837	38	135	2.0	11.0 <sup>3</sup>	10.9 <sup>4</sup>	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

<sup>1</sup>Floodway not computed/shown for this cross section

<sup>2</sup>Feet above mouth

<sup>3</sup>Combined coastal and riverine effects from Caloosahatchee River and Manuels Branch

<sup>4</sup>Elevation 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 <sup>2</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A <sup>1</sup>	0	N/A	N/A	N/A	*	-0.2 <sup>4</sup>	N/A	N/A
B	3,000	74	377	1.9	*	2.4 <sup>4</sup>	2.8	0.4
C	4,700	52	307	2.3	*	3.1 <sup>4</sup>	3.7	0.6
D	7,993	63	431	1.1	*	7.5 <sup>4</sup>	7.7	0.2
E	9,268	72	343	1.4	9.1 <sup>3</sup>	7.9 <sup>4</sup>	8.0	0.1
F	11,208	50	194	0.7	10.8 <sup>3</sup>	10.7 <sup>4</sup>	11.0	0.3
G	12,599	40	208	0.7	11.9 <sup>3</sup>	11.8 <sup>4</sup>	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

<sup>1</sup>Floodway not computed/shown for this cross section

<sup>2</sup>Feet above mouth

<sup>3</sup>Combined coastal and riverine effects from Caloosahatchee River and Marsh Point Creek

<sup>4</sup>Elevation 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 <sup>1</sup>	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 <sup>3</sup>	3.9	0.9
B	10,250	201	1,267	1.6	*	3.1 <sup>3</sup>	4.0	0.9
C	10,353	201	1,356	1.5	*	3.1 <sup>3</sup>	4.0	0.9
D	11,503	180	1,461	1.4	*	3.2 <sup>3</sup>	4.1	0.9
E	13,303	110	961	2.1	*	3.5 <sup>3</sup>	4.4	0.9
F	14,583	2,168	6,105	0.3	*	9.9 <sup>3</sup>	9.9	0.0
G	17,056	1,517	1,287	1.6	11.8 <sup>2</sup>	11.7 <sup>3</sup>	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

<sup>1</sup>Feet above mouth

<sup>2</sup>Combined coastal and riverine effects from Estero Bay and Mullock Creek

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

<sup>1</sup>Feet above mouth

<sup>2</sup>Combined coastal and riverine effects from Estero Bay and Mullock Creek Tributary

<sup>3</sup>Elevation 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 <sup>1</sup>	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 <sup>2</sup>	15.1	15.5	0.3
1574 (9,24)	B	5,817	55	233	1.2	17.5 <sup>2</sup>	15.3	15.6	0.3
1572 (9,26)	C	6,617	55	253	1.1	17.5 <sup>2</sup>	15.4	15.7	0.3
1571 (9,27)	D	7,417	53	253	1.1	17.5 <sup>2</sup>	15.5	15.7	0.2
1569 (9,29)	E	8,217	56	264	1.1	17.6 <sup>2</sup>	15.5	15.8	0.3
1567 (9,31)	F	9,017	53	256	1.1	17.6 <sup>2</sup>	15.6	15.8	0.2
1566 (9,32)	G	9,817	56	269	1.0	17.6 <sup>2</sup>	15.6	15.9	0.3

<sup>1</sup>Feet above mouth

<sup>2</sup>The 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		FLOODWAY DATA	
	LEE COUNTY, FLORIDA		FLOODING SOURCE: NORTH COLONIAL WATERWAY	
	AND INCORPORATED AREAS			

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

<sup>1</sup>Feet above mouth

<sup>2</sup>Combined coastal and riverine effects from Estero Bay and Oak Creek

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

<sup>1</sup>Floodway not computed/shown for this cross section

<sup>2</sup>Feet above mouth

<sup>3</sup>Combined coastal and riverine effects from Caloosahatchee River and Orange River

<sup>4</sup>Elevation 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 <sup>1</sup>	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 <sup>2</sup>	11.9 <sup>3</sup>	12.8	0.9
V	34,582	3,417	18,197	0.5	12.6 <sup>2</sup>	12.5 <sup>3</sup>	13.4	0.9
W	35,582	1,795	12,999	0.6	12.8 <sup>2</sup>	12.7 <sup>3</sup>	13.6	0.9
X	36,752	1,531	7,693	1.1	13.0 <sup>2</sup>	12.9 <sup>3</sup>	13.8	0.9
Y	38,542	742	5,035	1.6	14.3 <sup>2</sup>	14.3 <sup>3</sup>	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

<sup>1</sup>Feet above mouth

<sup>2</sup>Combined coastal and riverine effects from Caloosahatchee River and Orange River

<sup>3</sup>Elevation 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 <sup>2</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A <sup>1</sup>	0	N/A	N/A	N/A	*	-0.1 <sup>4</sup>	N/A	N/A
B <sup>1</sup>	1,003	N/A	N/A	N/A	*	4.4 <sup>4</sup>	N/A	N/A
C <sup>1</sup>	4,818	N/A	N/A	N/A	*	6.3 <sup>4</sup>	N/A	N/A
D	6,641	125	689	1.0	10.8 <sup>3</sup>	10.4 <sup>4</sup>	10.9	0.5
E	7,451	120	388	1.8	11.3 <sup>3</sup>	11.1 <sup>4</sup>	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

<sup>1</sup>Floodway not computed/shown for this cross section

<sup>2</sup>Feet above mouth

<sup>3</sup>Combined coastal and riverine effects from Caloosahatchee River and Owl Creek

<sup>4</sup>Elevation 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 <sup>2</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A <sup>1</sup>	0	N/A	N/A	N/A	*	0.0 <sup>4</sup>	N/A	N/A
B	2,514	200	927	1.3	9.5 <sup>3</sup>	9.2 <sup>4</sup>	9.8	0.6
C	3,684	50	261	3.9	10.6 <sup>3</sup>	10.4 <sup>4</sup>	11.3	0.9
D	4,854	1,097	2,754	0.4	12.8 <sup>3</sup>	12.7 <sup>4</sup>	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

<sup>1</sup>Floodway not computed/shown for this cross section

<sup>2</sup>Feet above mouth

<sup>3</sup>Combined coastal and riverine effects from Caloosahatchee River and Palm Creek

<sup>4</sup>Elevation 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 <sup>2</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A <sup>1</sup>	0	N/A	N/A	N/A	*	-0.1 <sup>4</sup>	N/A	N/A
B <sup>1</sup>	1,225	N/A	N/A	N/A	*	1.4 <sup>4</sup>	N/A	N/A
C <sup>1</sup>	2,025	N/A	N/A	N/A	*	2.1 <sup>4</sup>	N/A	N/A
D <sup>1</sup>	2,925	N/A	N/A	N/A	*	2.5 <sup>4</sup>	N/A	N/A
E <sup>1</sup>	3,925	N/A	N/A	N/A	*	2.8 <sup>4</sup>	N/A	N/A
F <sup>1</sup>	4,830	N/A	N/A	N/A	*	3.5 <sup>4</sup>	N/A	N/A
G	5,660	40	363	3.5	*	4.1 <sup>4</sup>	5.0	0.9
H	7,675	60	266	4.2	*	6.1 <sup>4</sup>	7.0	0.9
I	8,576	86	466	2.4	*	7.0 <sup>4</sup>	8.0	1.0
J	11,612	44	219	5.1	12.4 <sup>3</sup>	12.3 <sup>4</sup>	13.2	0.9
K	13,218	132	621	1.8	14.0 <sup>3</sup>	14.0 <sup>4</sup>	15.0	1.0
L	14,519	48	242	4.7	15.7 <sup>3</sup>	15.7 <sup>4</sup>	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

<sup>1</sup>Floodway not computed/shown for this cross section

<sup>2</sup>Feet above mouth

<sup>3</sup>Combined coastal and riverine effects from Caloosahatchee River and Palm Creek

<sup>4</sup>Elevation 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 <sup>1</sup>	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

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

<sup>1</sup>Floodway not computed/shown for this cross section

<sup>2</sup>Feet above mouth

<sup>3</sup>Combined coastal and riverine effects from Caloosahatchee River and Powell Creek

<sup>4</sup>Elevation 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 <sup>1</sup>	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 <sup>2</sup>	11.9 <sup>3</sup>	12.8	0.9
O	12,829	90	477	0.5	11.9 <sup>2</sup>	11.9 <sup>3</sup>	12.8	0.9
P	13,398	82	491	0.5	12.0 <sup>2</sup>	11.9 <sup>3</sup>	12.9	1.0
Q	14,787	79	511	0.4	12.0 <sup>2</sup>	11.9 <sup>3</sup>	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

<sup>1</sup>Feet above mouth

<sup>2</sup>Combined coastal and riverine effects from Caloosahatchee River and Powell Creek

<sup>3</sup>Elevation 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 <sup>1</sup>	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 <sup>2</sup>	12.3 <sup>3</sup>	12.8	0.5
B	1,390	1,500	5,865	0.7	13.2 <sup>2</sup>	12.9 <sup>3</sup>	13.4	0.5
C	2,690	900	3,859	1.1	13.3 <sup>2</sup>	13.1 <sup>3</sup>	13.6	0.5
D	4,003	889	2,902	1.4	13.9 <sup>2</sup>	13.7 <sup>3</sup>	14.5	0.8
E	5,517	700	3,197	1.3	14.4 <sup>2</sup>	14.3 <sup>3</sup>	15.1	0.8
F	7,855	1,200	4,348	0.9	14.9 <sup>2</sup>	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

<sup>1</sup>Feet above mouth

<sup>2</sup>Combined coastal and riverine effects from Estero River and Six Mile Cypress Slough

<sup>3</sup>Elevation 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 <sup>1</sup>	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 <sup>4</sup>	11.4	12.4	1.0
7072 (4,77)	B	1,471	115	1,118	0.6	11.4 <sup>4</sup>	11.4	12.4	1.0
6932 (4,79)	C	1,493	237	901	0.7	11.4 <sup>4</sup>	11.4	12.4	1.0
6931 (4,80)	D	2,629	329	591	1.0	11.7 <sup>4</sup>	11.7	12.6	0.9
6930 (4,81)	E	3,009	120	590	0.7	11.8 <sup>4</sup>	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 <sup>3</sup>	12.1	12.9	0.8
6925 (4,86)	H	6,393	411	862	0.5	14.9 <sup>3</sup>	12.5	13.2	0.7
6924 (4,87)	I	7,673	634	702	0.7	15.3 <sup>3</sup>	13.7	14.3	0.6
6923 (4,88)	J	8,505	659	546	0.9	15.4 <sup>3</sup>	13.9	14.4	0.5
6922 (4,89)	K	9,432	534	534	0.8	15.4 <sup>3</sup>	14.4	15.0	0.6
6921 (4,90)	L	10,432	686	1,257	0.4	15.4 <sup>3</sup>	14.8	15.3	0.5
6921 (4,90)	M	11,185	584	749	0.6	15.4 <sup>3</sup>	14.9	15.4	0.5

<sup>1</sup>Feet above confluence with Estero River

<sup>2</sup>Elevation computed without consideration of backwater effects from Estero River

<sup>3</sup>The 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.

<sup>4</sup>Elevation 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 <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0	46	273	0.9	12.6 <sup>2</sup>	12.4 <sup>3</sup>	13.4	1.0
B	1,170	70	255	0.9	12.7 <sup>2</sup>	12.5 <sup>3</sup>	13.5	1.0
C	2,930	50	234	1.0	12.8 <sup>2</sup>	12.7 <sup>3</sup>	13.6	0.9
D	4,122	44	250	0.9	18.4 <sup>2</sup>	18.4	18.4	0.0

<sup>1</sup>Feet above mouth

<sup>2</sup>Combined coastal and riverine effects from Caloosahatchee River and Spanish Canal

<sup>3</sup>Elevation 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 <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0	42	231	9.7	*	2.2 <sup>3</sup>	3.2	1.0
B	916	195	767	2.9	*	8.1 <sup>3</sup>	8.6	0.5
C	2,081	312	1,313	1.5	*	9.3 <sup>3</sup>	10.2	0.9
D	4,446	89	546	3.7	11.6 <sup>2</sup>	11.3 <sup>3</sup>	12.2	0.9
E	4,590	41	240	8.4	12.1 <sup>2</sup>	11.8 <sup>3</sup>	12.4	0.6
F	4,841	465	1,238	1.6	13.8 <sup>2</sup>	13.8 <sup>3</sup>	14.1	0.3
G	6,481	714	1,741	1.2	15.5 <sup>2</sup>	15.5 <sup>3</sup>	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

<sup>1</sup>Feet above mouth

<sup>2</sup>Combined coastal and riverine effects from Caloosahatchee River and Spanish Creek

<sup>3</sup>Elevation 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 <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	3,036	681 / 276 <sup>2</sup>	3,102	1.1	*	1.7 <sup>3</sup>	2.5	0.8
B	5,636	366	2,136	1.6	*	3.2 <sup>3</sup>	4.1	0.9
C	8,236	325	2,663	1.2	*	3.5 <sup>3</sup>	4.4	0.9
D	10,236	130	1,139	2.9	*	3.8 <sup>3</sup>	4.7	0.9
E	11,836	245	2,045	1.1	*	4.1 <sup>3</sup>	5.1	1.0
F	13,136	795	4,916	0.4	*	4.1 <sup>3</sup>	5.1	1.0
G	14,336	388	2,489	0.9	*	4.1 <sup>3</sup>	5.0	0.9
H	15,336	207	1,586	1.4	*	4.3 <sup>3</sup>	5.2	0.9
I	16,636	121	951	2.3	*	4.4 <sup>3</sup>	5.3	0.9
J	17,936	75	676	3.2	*	4.7 <sup>3</sup>	5.6	0.9
K	19,911	148	1,153	1.9	*	5.3 <sup>3</sup>	6.3	1.0
L	22,986	279	1,333	1.3	*	7.8 <sup>3</sup>	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

<sup>1</sup>Feet above mouth

<sup>2</sup>Total width / width shown

<sup>3</sup>Elevation 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 <sup>1</sup>	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

<sup>1</sup>Feet 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 <sup>2</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A <sup>1</sup>	0	N/A	N/A	N/A	*	0.0 <sup>3</sup>	N/A	N/A
B <sup>1</sup>	1,850	N/A	N/A	N/A	*	1.8 <sup>3</sup>	N/A	N/A
C	2,880	168	673	2.6	*	2.7 <sup>3</sup>	3.1	0.4
D	5,971	359	1,464	1.2	*	7.5 <sup>3</sup>	8.1	0.6
E	7,544	76	363	4.8	*	9.1 <sup>3</sup>	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

<sup>1</sup>Floodway not computed/shown for this cross section

<sup>2</sup>Feet above mouth

<sup>3</sup>Elevation 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 <sup>1</sup>	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 <sup>3</sup>	5.2	0.0
B	1,790	823	4,795	2.2	*	8.3 <sup>3</sup>	9.2	0.9
C	3,153	330	2,313	4.6	10.2 <sup>2</sup>	9.5 <sup>3</sup>	9.8	0.3
D	4,430	310	2,804	3.8	10.9 <sup>2</sup>	10.4 <sup>3</sup>	11.3	0.9
E	5,718	962	6,465	1.7	11.7 <sup>2</sup>	11.4 <sup>3</sup>	12.4	1.0
F	7,755	330	2,737	3.9	12.4 <sup>2</sup>	12.2 <sup>3</sup>	13.1	0.9
G	9,211	590	4,105	2.6	14.8 <sup>2</sup>	14.7 <sup>3</sup>	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

<sup>1</sup>Feet above mouth

<sup>2</sup>Combined coastal and riverine effects from Caloosahatchee River and Telegraph Creek

<sup>3</sup>Elevation 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 <sup>1</sup>	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 <sup>3</sup>	2.1	0.6
1550	B	7,000	209	3,674	1.1	*	6.0 <sup>3</sup>	6.4	0.4
1547	C	8,500	164	1,566	2.7	*	6.2 <sup>3</sup>	6.8	0.6
1543 (26,10)	D	10,490	111	805	5.2	*	7.1 <sup>3</sup>	7.2	0.1
1539 (30,10)	E	12,491	227	2,153	2.0	*	7.8 <sup>3</sup>	8.6	0.8
1532 (37,10)	F	16,000	83	744	4.8	10.2 <sup>2</sup>	9.0	9.6	0.6
1523 (46,10)	G	20,500	82	781	2.7	11.5 <sup>2</sup>	10.4	10.8	0.4
1517 (52,10)	H	23,500	102	1,040	1.9	11.8 <sup>2</sup>	10.8	11.1	0.3
1510 (59,10)	I	27,000	92	738	2.7	12.5 <sup>2</sup>	11.3	11.6	0.3
1504 (65,10)	J	30,000	66	523	2.3	13.0 <sup>2</sup>	12.0	12.2	0.2
1498 (71,10)	K	33,330	84	527	2.3	13.6 <sup>2</sup>	12.5	12.7	0.2
1493 (76,10)	L	35,500	77	668	1.8	13.9 <sup>2</sup>	12.8	13.0	0.2
1486 (83,10)	M	39,000	76	485	2.5	14.2 <sup>2</sup>	13.1	13.3	0.2
1481 (88,10)	N	41,500	83	529	1.6	14.9 <sup>2</sup>	13.5	13.6	0.1
1479 (88,12)	O	42,500	113	616	1.0	15.0 <sup>2</sup>	13.7	13.8	0.1
1476 (88,15)	P	44,000	62	298	2.1	15.1 <sup>2</sup>	14.0	14.1	0.1
1474 (88,17)	Q	45,000	81	430	1.4	15.2 <sup>2</sup>	14.2	14.2	0.0
1468 (88,23)	R	48,000	49	253	1.6	15.8 <sup>2</sup>	14.4	14.4	0.0
1454 (88,37)	S	54,930	22	68	0.5	15.9 <sup>2</sup>	14.5	14.6	0.1

<sup>1</sup>Feet above confluence mouth

<sup>2</sup>The 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.

<sup>3</sup>Elevation computed without consideration of backwater effects from Estero Bay

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY		FLOODWAY DATA	
	LEE COUNTY, FLORIDA		FLOODING SOURCE: TEN MILE CANAL	
	AND INCORPORATED AREAS			

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>2</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A <sup>1</sup>	2,944	N/A	N/A	N/A	*	5.0 <sup>4</sup>	N/A	N/A
B <sup>1</sup>	5,344	N/A	N/A	N/A	*	5.6 <sup>4</sup>	N/A	N/A
C <sup>1</sup>	6,709	N/A	N/A	N/A	*	5.9 <sup>4</sup>	N/A	N/A
D <sup>1</sup>	9,347	N/A	N/A	N/A	*	6.6 <sup>4</sup>	N/A	N/A
E <sup>1</sup>	10,800	N/A	N/A	N/A	*	9.2 <sup>4</sup>	N/A	N/A
F	15,216	1,191	4,019	1.1	11.8 <sup>3</sup>	11.7 <sup>4</sup>	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

<sup>1</sup>Floodway not computed/shown for this cross section

<sup>2</sup>Feet above mouth

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

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

<sup>1</sup>Floodway not computed/shown for this cross section

<sup>2</sup>Feet above mouth

<sup>3</sup>Combined coastal and riverine effects from Caloosahatchee River and Winkler Canal

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

<sup>1</sup>Feet above mouth

<sup>2</sup>Combined coastal and riverine effects from Caloosahatchee River and Yellow Fever Creek

<sup>3</sup>Elevation 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 ( $h v^2$ ) 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](http://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](http://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](http://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](http://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](http://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 <sup>1</sup>
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 <sup>2</sup> 12071C0592F <sup>2</sup>
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 <sup>3</sup> 12071C0678F <sup>3</sup>
08-04-3125P	04-30-2009	Oak Creek	12071C0659G

<sup>1</sup> 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.

<sup>2</sup> 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.

<sup>3</sup> 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](http://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](http://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 (FHBMs) 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 <sup>1,2</sup>	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 <sup>1,2</sup>	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 <sup>1,2</sup>	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

<sup>1</sup> Dates for this community were taken from Lee County, Unincorporated Areas

<sup>2</sup> 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 <sup>1</sup>	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

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