

**ADDENDUM TO
JURISDICTIONAL DETERMINATION AND WETLANDS DELINEATION
TECHNICAL ASSESSMENT**

FOR

**IMPACTS ASSOCIATED WITH THE
SOUTH ORANGE COUNTY TRANSPORTATION
INFRASTRUCTURE IMPROVEMENT PROJECT
A7-FEC-M (with minor modifications)**

[Revised April 6, 2005]

Prepared for:

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This addendum provides additional impact analysis for the A7-FEC-M (with minor modifications). As mentioned in the “Jurisdictional Determination and Wetland Delineation Technical Assessment”, jurisdictional totals for the study areas, which extend from 200 to 1000 feet beyond the disturbance limits of each alignment, are included in Appendix A along with detailed drainage descriptions. The impact analysis below addresses only the initial disturbance limits for which permits are being sought at this time. Impact totals represent only the surface area subject to regulation by the various agencies and do not represent a relative assessment of function. This analysis assumes that all drainages within the disturbance limits are permanently filled, except for those that will be bridged. For bridges, the small area of impact where the support columns are founded into the ground have been included as permanent impacts, while the remaining bridge right of way is assumed to be temporarily impacted for piling installation although the bridge structure will span over the open terrain. Although the other reaches will be filled, cross-culverts will be installed at the majority of drainages allowing for the retention of significant hydrologic function.

It should also be noted that Corps, CDFG, and CCC regulate many of the same features, therefore, jurisdictional impact totals for the various agencies do overlap and should not be considered mutually exclusive.

IMPACT TOTALS:

The following impacts are based upon the A7-FEC-M (with minor modifications) initial disturbance limits. Permanent impacts are summarized in Table 1. Temporary impacts are summarized in Table 2.

The A7-FEC-M (with minor mod.) – Initial Alternative will permanently impact approximately 6.27 acres subject to Corps jurisdiction. This total consists of 0.82 acre of wetland and 5.45 acres of non-wetland waters.

The A7-FEC-M (with minor mod.) – Initial Alternative will temporarily impact approximately 9.44 acres subject to Corps jurisdiction. This total consists of 6.73 acre of wetland and 2.71 acres of non-wetland waters.

The A7-FEC-M (with minor mod.) – Initial Alternative will permanently impact 23.08 acres subject to CDFG jurisdiction. This total consists of 20.37 acres of vegetated riparian habitat and 2.71 acres of unvegetated streambed.

The A7-FEC-M (with minor mod.) – Initial Alternative will temporarily impact approximately 14.37 acres subject to CDFG jurisdiction, of which 14.34 acres consists of vegetated riparian habitat.

The A7-FEC-M (with minor mod.) – Initial Alternative will permanently impact approximately 0.46 acre subject to CCC jurisdiction. This total all consists of areas that qualify as CCC wetlands based on the presence of one parameter out of three possible parameters (soils, hydrology, plants).

The A7-FEC-M (with minor mod.) – Initial Alternative will temporarily impact approximately 6.44 acres subject to CCC jurisdiction. This total all consists of areas that qualify as CCC wetlands based on the presence of one parameter out of three possible parameters (soils, hydrology, plants).

TABLE 1
PERMANENT JURISDICTIONAL IMPACTS
A7-FEC-M (with minor modifications) – INITIAL ALTERNATIVE
(in acres)

Jurisdictional Feature ¹	Resource Type	Corps ²			CDFG		
		Wetlands	Non-wetland Waters	Total	Vegetated	Unvegetated Streambed	Total
FE/C/7-1	Ephemeral	0.00	0.02	0.02	0.41	0.01	0.42
FE/7-1	Ephemeral	NA	NA	NA	0.50	0.01	0.51
FE/7-2	Intermittent	NA	NA	NA	0.20	0.01	0.21
FE-1	Ephemeral	NA	NA	NA	0.69	0.00	0.69
FE-2A	Ephemeral	NA	NA	NA	0.00	0.01	0.01
FE-2B	Ephemeral	0.00	0.06	0.06	0.00	0.06	0.06
7-2	Ephemeral	0.00	0.02	0.02	0.00	0.03	0.03
7-3	Ephemeral	0.00	0.51	0.51	3.91	0.08	3.99
7-5	Ephemeral	0.00	0.01	0.01	0.09	0.00	0.09
7-6	Ephemeral	0.00	0.01	0.01	0.13	0.01	0.14
7-San Juan Creek	Intermittent	0.00	0.01	0.01	0.30	0.00	0.30
7-10	Ephemeral	NA	NA	NA	0.09	0.08	0.17
7-11	Ephemeral	NA	NA	NA	0.00	0.00	0.03
7-12	Ephemeral	0.00	0.03	0.03	0.51	0.00	0.51
7-13	Ephemeral	0.00	1.92	1.92	1.72	1.19	2.91
FE/7-3	Ephemeral	0.00	0.20	0.20	1.94	0.00	1.94
FE/7-4	Intermittent	NA	NA	NA	0.82	0.00	0.82
FE/7-6	Ephemeral	0.00	0.10	0.10	0.79	0.05	0.84
FE/7-7	Ephemeral	0.00	0.12	0.12	2.06	0.00	2.06
FE/7-8	Ephemeral	0.00	0.19	0.19	2.34	0.08	2.42
FE/7-9	Ephemeral	0.00	0.10	0.10	0.00	0.10	0.10
Unnamed Tributary to Cristianitos	Ephemeral	0.00	0.00	0.00	0.08	0.00	0.08
FE/7-10	Ephemeral	0.00	0.05	0.05	0.17	0.04	0.21
FE/7-11	Perennial	0.12	0.39	0.51	0.77	0.00	0.77
FE/7-12	Intermittent	0.35	0.00	0.35	0.35	0.00	0.35
FE/7-12	Ephemeral	0.00	0.27	0.27	0.57	0.08	0.65

Jurisdictional Feature ¹	Resource Type	Corps ²			CDFG		
		Wetlands	Non-wetland Waters	Total	Vegetated	Unvegetated Streambed	Total
FE/7-14	Ephemeral	0.00	0.19	0.19	0.15	0.05	0.20
FE/7-VM18	Depressional Wetland	0.04	0.00	0.04	NA	NA	NA
FE/7-VM19	Depressional Wetland	0.06	0.00	0.06	NA	NA	NA
FE/7-15	Ephemeral	0.00	0.12	0.12	0.00	0.12	0.12
FE/7-16	Ephemeral	0.00	0.09	0.09	0.00	0.09	0.09
FE/7-17	Ephemeral	0.00	0.12	0.12	0.00	0.12	0.12
FE/7-18	Ephemeral	0.00	0.55	0.55	0.89	0.25	1.14
FE/7-19	Ephemeral	0.00	0.01	0.01	0.00	0.01	0.01
FE/7-20	Ephemeral	0.00	0.01	0.01	0.00	0.01	0.01
FE/7-21	Ephemeral	0.00	0.07	0.07	0.48	0.00	0.48
FE/7-22	Ephemeral	0.00	0.22	0.22	0.18	0.15	0.33
FE/7-24	Ephemeral	0.00	0.03	0.03	0.00	0.03	0.03
FE/7-25	Ephemeral	0.00	0.03	0.03	0.00	0.03	0.03
FE/7-SAN MATEO CREEK ³	Perennial	0.01	0.00	0.01	0.01	0.00	0.01
FE/7-SAN MATEO MARSH-EAST of I5 ³	Freshwater Forested Wetland	0.00	0.00	0.00	0.21	0.00	0.21
FE/7-VM20 ³	Depressional Wetland	0.05	0.00	0.05	NA	NA	NA
FE/7-VP3 ³	Depressional Wetland	0.18	0.00	0.18	NA	NA	NA
San Onofre Creek ³	Perennial	0.01	0.00	0.01	0.01	0.00	0.01
TOTAL	NA	0.82	5.45	6.27	20.37	2.71	23.08

¹ These features are depicted on Exhibits 1.

² Refer to Tables 3 and 4 for isolated features totals

³ Feature subject to CCC jurisdiction.

TABLE 2
TEMPORARY JURISDICTIONAL IMPACTS
A7-FEC-M (with minor modifications) – INITIAL ALTERNATIVE
(in acres)

Jurisdictional Feature ¹	Resource Type	Corps			CDFG		
		Wetlands	Non-wetland Waters	Total	Vegetated	Unvegetated Streambed	Total
FE/7-1	Ephemeral	NA	NA	NA	1.28	0.03	1.31
7-SAN JUAN CREEK	Intermittent	0.29	2.71	3.00	6.62	0.00	6.62
SAN MATEO CREEK ²	Perennial	5.30	0.00	5.30	5.30	0.00	5.30
San Onofre Creek ²	Perennial	1.14	0.00	1.14	1.14	0.00	1.14
TOTAL	NA	6.73	2.71	9.44	14.34	0.03	14.37

¹ These features are depicted on Exhibit 1 in the delineation report.

² Feature subject to CCC jurisdiction.

Permanent impacts to isolated features that may be subject to RWQCB jurisdiction are summarized in table 3 below.

TABLE 3
PERMANENT IMPACTS TO ISOLATED FEATURES
A7-FEC-M (with minor modifications) – INITIAL ALTERNATIVE
(in acres)

Feature Name ¹	Wetland Area	Non- Wetland Waters	Total Area	Total Length (linear feet)
FE/C/7-WETLAND 2	0.10	0.00	0.10	NA
FE/7-1		0.02	0.02	205
FE/7-2	0.19	0.02	0.21	926
FE/7-3	0.33	0.08	0.41	960
FE-1		0.04	0.04	504
FE-2A		0.01	0.01	154
7-2		0.01	0.01	188
7-3		0.01	0.01	283
7-10		0.08	0.08	660
7-11		0.02	0.02	432
7-13		0.02	0.02	393
FE/7-4	0.75	0.00	0.75	476
TOTAL	1.37	0.31	1.68	5,181

¹ These features are depicted on Exhibit 1.

Temporary impacts to isolated features that may be subject to RWQCB jurisdiction are summarized in table 4 below.

TABLE 4
TEMPORARY IMPACTS TO ISOLATED FEATURES
MODIFIED GREEN – INITIAL ALTERNATIVE
(in acres)

Feature Name¹	Wetland Area	Non- Wetland Waters	Total Area	Total Length (linear feet)
FE/7-1	0.00	0.05	0.05	667
TOTAL	0.00	0.05	0.05	667

¹ These features are depicted on Exhibit 1.