

Impacts to WOUS

Application for Clean Water Act Section 404 Permit SouthEast Connector

	South Meadows Parkway to Alexander Lake Road	Alexander Lake Road to Mira Loma Drive	Mira Loma Drive to Pembroke Drive	Pembroke Drive to Clean Water Way	Total
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Waters of the US					
Temporary (acres)	0.07	1.30	1.06	0.33	2.76
Permanent (acres)	0.59	1.23	0.56	0.00	2.38
Wetland (Ag- Induced)					
Temporary (acres)	0.00	4.98	0.11	0.00	5.09
Permanent (acres)	0.00	4.89	0.18	0.00	5.07
		Wetland (Other)			
Temporary (acres)	0.02	3.09	2.50	0.00	5.61
Permanent (acres)	0.09	0.62	3.07	0.00	3.78
Bank Stabilization (linear feet)	TBD	TBD	TBD	TBD	6,830
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Permanent versus Temporary: the temporary impacts are those that exist only for the duration of the project construction and the immediate period of restoration that follows construction. Permanent impacts, either mitigated or unmitigated, are those impacts that are anticipated to exist in perpetuity after project implementation.

Direct Effects to Waters of the U.S.

Mitigation and Monitoring Plan – Application for Clean Water Act Section 404 Permit SouthEast Connector

Area Type	South Meadows Parkway to Alexander Lake Rd	Alexander Lake Road to Mira Loma Drive	Mira Loma Drive to Pembroke Drive	Pembroke Drive to Clean Water Way	Acre Subtotals
Emergent Marsh (acres)		0.62	1.59		2.21
Open Water Intermittent Stream (acres)	0.15				0.15
Open Water Perennial Stream (acres)	0.44	0.53			0.97
Open Water Pond (acres)		0.70	0.56		1.26
Seasonal Wetland Meadow (acres)		4.89	0.18		5.07
Seasonal Wetland Whitetop (acres)			1.48		1.48
Wetland Swale (acres)	0.09				0.09
				Total Acres	11.23

Indirect Effects to Waters of the U.S.

Mitigation and Monitoring Plan – Application for Clean Water Act Section 404 Permit SouthEast Connector

Area Type	South Meadows Parkway to Alexander Lake Rd	Alexander Lake Road to Mira Loma Drive	Mira Loma Drive to Pembroke Drive	Pembroke Drive to Clean Water Way	Acre Subtotals
Emergent Marsh (acres)		2.93	1.96		4.89
Open Water Intermittent Stream (acres)	0.02				0.02
Open Water Perennial Stream (acres)	0.05	0.67	0.16	0.33	1.21
Open Water Pond (acres)		0.64	0.90		1.54
Seasonal Wetland Meadow (acres)		5.03	0.11		5.13
Seasonal Wetland Whitetop (acres)		0.15	0.54		0.69
Wetland Swale (acres)	0.02				0.02
				Total Acres	13.51

Proposed Mitigation

Mitigation and Monitoring Plan – Application for Clean Water Act Section 404 Permit SouthEast Connector

Mitigation Type	South Meadows Parkway to Alexander Lake Road	Alexander Lake Road to Mira Loma Drive	Mira Loma Drive to Pembroke Drive	Pembroke Drive to Clean Water Way	Total Direct Impact	Required Acres	At Ratio
Waters of the U.S						2.38	1:1
Permanent	0.59	1.23	0.56	0.00	2.38		
Wetland (Agricultural Induced)						10.14	2:1
Permanent	0.00	4.89	0.18		5.07		
Wetland-Obligate (Perm)	0.00	0.62	1.59	0.00	2.21	6.63	3:1
Wetland Seasonal Whitetop (Perm)	0.00	0.00	1.48	0.00	1.48	2.22	1.5:1
Wetland Swale (Perm)	0.09	0.00	0.00	0.00	0.09	0.14	1.5:1
Total Created Wetlands: 21.51 Acres							