# NTS Fact Sheet 2015-2016

#### General Information

	Total Site Area	Drainage Area	Portion of 76,000 acre Watershed	Inflow	Outflow
NTS Sites (27)	180.3 acres	15,275.2 acres	20%	346,600,000 gallons	278,200,000 gallons
San Joaquin Marsh	429 acres	63,536.4 acres	84%	879,200,000 gallons	476,800,000 gallons

#### Pollutant Removal

		Total Load Reduction		Removal Efficiency	
Pollutant		NTS Sites	San Joaquin Marsh	NTS Sites	San Joaquin Marsh
Nitrogen (TN)		7,475 lbs	33,000 lbs	67%	85%
Selenium (Se)	<i>i</i>	5.3 lbs	140	60%	79%
Orthophosphate (PO <sup>4</sup> )		351.4 lbs	80.04	74%	100%
Copper (Cu)		8.3 lbs	36.4	71%	59%
Total Coliform		-	-	73%	99%
Trash		14,055 lbs	4,929 lbs	90%	75%
Sediment	4	3 tons	47.1 tons	50%	20%

### San Joaquin Marsh

The San Joaquin Marsh, the first and largest of IRWD's Natural Treatment Systems (NTS) was established in 1997. The Marsh has a water residence time of approximately 21 days, and receives urban runoff from 84% of the San Diego Creek/Newport Bay Watershed.



## Marsh Facts

- 429 acres
- Treats on average over 1 billion gallons of water annually
- 12.3 miles of nature trails
- 121 plant species
- 282 birds species
- 7,500 people participated in dozens of educational programs carried out by 108 naturalists volunteering over 8,500 hours

#### Irvine Ranch Water District **Irvine Ranch Water District Natural Treatment System** Irvine Regional Park Oran ge 56 North Tustin 10 Silverado Tustin 61 13 **12EF** Hicks Cany 12A 12B 64 75 74 71 18 16 Wilderne Park 73A Irvine Non Hus Agua Foothill 73B 26 Ranch 73C 46 73D **69E** 39 69A C) San 31 errand SAN JOAQUIN HILLS Site Name NTS No. 49 Port Culver 12A 1 69D 42 2 **Orchard Meadow** 12B 3 Forge Meadow 12EF 32 4 Rattlesnake Reservoir 13 5 Trabuco 16 San 6 18 Marshburn Laguna Joaquin 7 Woodbridge 26 ods Hills illa 8 Quail Springs 31 9 Buc, Old Laguna 32 Newport 10 Sand Canyon Reservoir 39 orona Coast 11 Turtle Ridge 42 lel Mar 12 San Joaquin Marsh 46 Resort 49 13 Quail Meadow Crystal at Pelican 14 El Modena 56 Hill Cove 15 Lower Eastfoot 61 State Park 16 Los Olivos Meadow 69A ra Laguna Alis 17 Laguna Altura North 69E ch Coast Vie 18 Laguna Altura South 69D Wilderness Park 19 Portola Springs Meadow 71 73A 20 Cypress Meadow A 21 Cypress Meadow B 73B 3.8 Miles 0 0.475 0.95 1.9 2.85 Laguna 22 Cypress Meadow C 73C Cypress Meadow D Beach 23 73D Aliso & Wood Canyons Park 24 **Bioretention Cell** 74 NTS Sites

San Diego Creek Watershed

64

10 75

25 Peter's Canyon

26 Middle Eastfoot

27 Eastwood Meadow