

# **APPENDIX I**

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## Prioritized Projects, Metrics, and Conceptual Projects

Prepared for:

San Diego Regional Storm Water Copermittee

County of San Diego Department of Public

**San Diego Regional SWRP Project List**

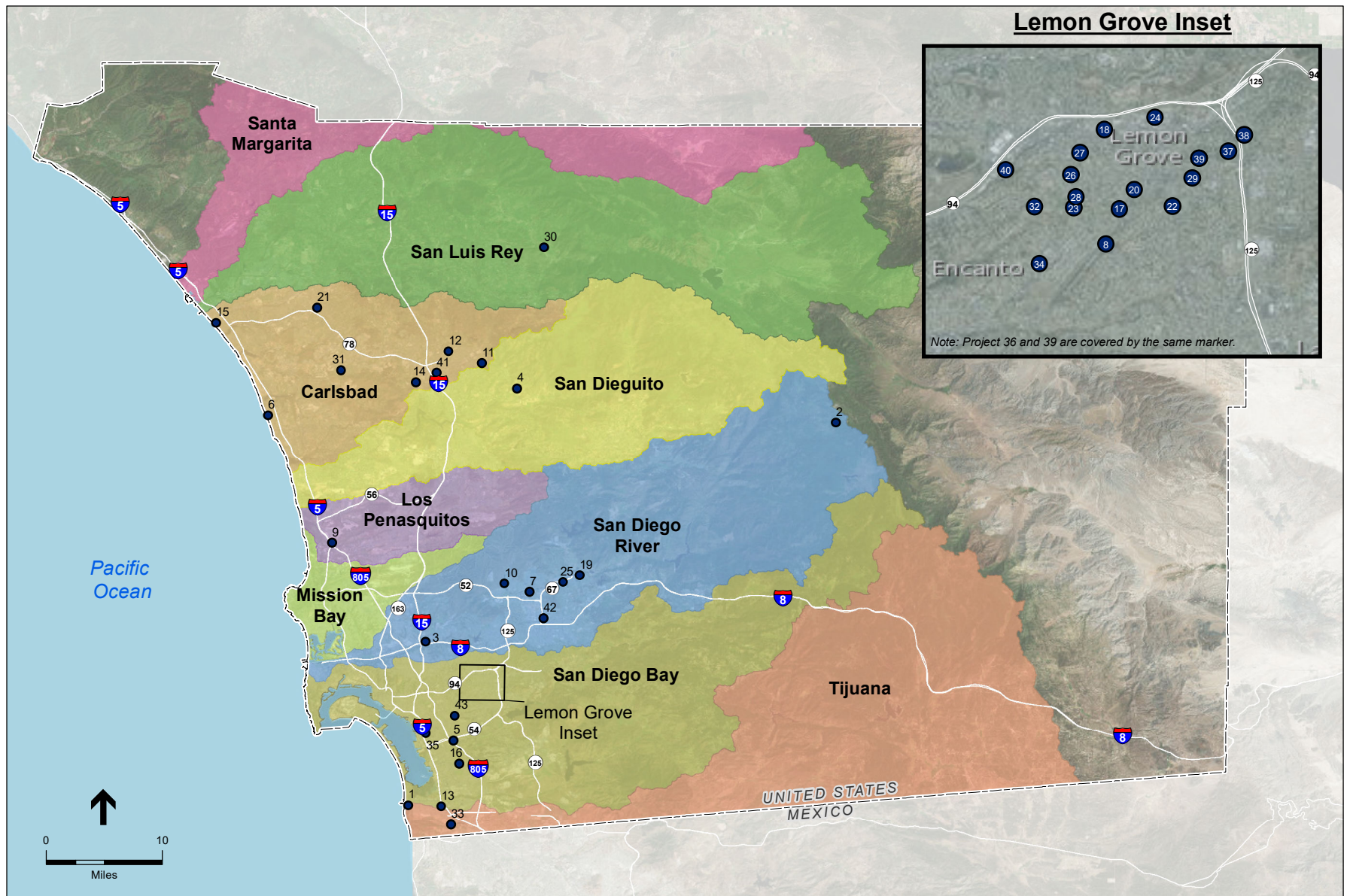
Project Number	Watershed	Project Title	Sponsor Organization	Is Project Eligible?	Water Quality Score	Water Supply Score	Flood Management Score	Environmental Score	Community Score	Total Score
41	Carlsbad	Spruce Street Channel Improvement Project	City of Escondido	Yes	38	25	5	12	28	108
11	Carlsbad	Alternative Compliance Retrofit Project Mountain View Park, Escondido	City of Escondido	Yes	26	40	25	1	15	107
21	Carlsbad	South Santa Fe Green Street Project	City of Vista	Yes	38	5	5	9	34	91
31	Carlsbad	San Marino Drive Green Street and Dry Weather Flow Management	County of San Diego	Yes	24	25	5	7	10	71
15	Carlsbad	City of Oceanside Loma Alta Slough Restoration Project	City of Oceanside	Yes	32	0	0	10	19	61
6	Carlsbad	Leucadia Roadside Park Stormwater Capture/Reuse Project	City of Encinitas	Yes	0	15	5	2	6	28
12	Carlsbad	Alternative Compliance Retrofit Project El Norte Parkway and Rincon Villa Drive, Escondido	City of Escondido	Yes	10	0	0	0	5	15
14	Carlsbad	Alternative Compliance Retrofit Project Avenida Del Diablo Park, Escondido	City of Escondido	Yes	0	0	0	0	0	0
13	Otay	Nestor Creek Channel Restoration	Earth Island Institute/Alter Terra	Yes	26	40	15	23	32	136
9	Penasquitos	Pure Water -Los Peñasquitos Creek Urban Dry-Weather Water Harvesting	City of San Diego Public Utilities Department	Yes	18	40	10	7	7	82
17	Pueblo	Main Street Promenade Extension	City of Lemon Grove	Yes	38	25	0	15	34	112
22	San Deigo Bay, Pueblo	Skyline Dr and Kempt St Green Streets	City of Lemon Grove	Yes	36	40	30	28	32	166
34	San Deigo Bay, Pueblo	Madera St Green Street	City of Lemon Grove	Yes	26	35	15	19	29	124
36	San Deigo Bay, Pueblo	Canton Dr Green Street	City of Lemon Grove	Yes	34	0	20	23	32	109
8	San Deigo Bay, Pueblo	Bakersfield Street and San Altos Channel Restoration	City of Lemon Grove	Yes	38	25	5	10	28	106

**San Diego Regional SWRP Project List, Continued**

Project Number	Watershed	Project Title	Sponsor Organization	Is Project Eligible?	Water Quality Score	Water Supply Score	Flood Management Score	Environmental Score	Community Score	Total Score
43	San Diego Bay, Pueblo	Paradise Valley Creek Water Quality and Community Enhancement	City of National City	Yes	38	5	30	11	20	104
32	San Deigo Bay, Pueblo	69th St Green Street	City of Lemon Grove	Yes	36	10	10	15	26	97
20	San Deigo Bay, Pueblo	Lemon Grove Avenue Green Streets	City of Lemon Grove	Yes	36	10	10	15	25	96
38	San Deigo Bay, Pueblo	Sweetwater Rd Green Street	City of Lemon Grove	Yes	38	5	5	10	34	92
27	San Deigo Bay, Pueblo	Central Avenue Green Street	City of Lemon Grove	Yes	38	5	5	9	34	91
28	San Deigo Bay, Pueblo	Mt. Vernon St Green Street	City of Lemon Grove	Yes	38	5	5	9	34	91
29	San Deigo Bay, Pueblo	Palm St Green Street	City of Lemon Grove	Yes	38	5	5	9	34	91
35	San Deigo Bay, Pueblo	Paradise Creek Restoration Phase II	City of National City	Yes	38	5	5	9	34	91
37	San Deigo Bay, Pueblo	Golden Ave Green Street	City of Lemon Grove	Yes	38	5	5	9	34	91
40	San Deigo Bay, Pueblo	Federal Blvd Channel	City of Lemon Grove	Yes	38	5	5	9	34	91
18	San Deigo Bay, Pueblo	Broadway/Federal Blvd Green Street	City of Lemon Grove	Yes	32	15	5	9	29	90
24	San Deigo Bay, Pueblo	North Ave and Grove Green Street	City of Lemon Grove	Yes	38	5	5	9	31	88
23	San Deigo Bay, Pueblo	Massachusetts Blvd Green Street	City of Lemon Grove	Yes	38	5	0	9	34	86
39	San Deigo Bay, Pueblo	Lincoln St Green Street	City of Lemon Grove	Yes	34	5	0	9	34	82
26	San Deigo Bay, Pueblo	San Miguel Green Street	City of Lemon Grove	Yes	32	0	5	17	26	80

**San Diego Regional SWRP Project List, Continued**

Project Number	Watershed	Project Title	Sponsor Organization	Is Project Eligible?	Water Quality Score	Water Supply Score	Flood Management Score	Environmental Score	Community Score	Total Score
19	San Diego River	Mapleview Street - Green Infrastructure and Stormwater Quality Improvement Project	County of San Diego	Yes	38	5	5	9	34	91
25	San Diego River	Woodside Avenue Complete Green Street	County of San Diego	Yes	38	5	5	9	34	91
42	San Diego River	Broadway Channel Flood Risk Reduction and Water Quality Improvements	City of El Cajon	Yes	38	0	20	11	20	89
3	San Diego River	Storm water Capture off San Diego River along Alvarado Canyon and Fairmont Canyon to Fish and Wildlife site	City of San Diego Public Utilities Department	Yes	8	25	5	4	7	49
7	San Diego River	Las Colinas Channel Improvements	City of Santee	Yes	10	5	5	14	12	46
10	San Diego River	Sycamore Creek Restoration	City of Santee	Yes	10	5	5	14	0	34
2	San Dieguito	Safari Park Storm Water Capture and Reuse Project	Zoological Society of San Diego	Yes	36	70	30	21	31	188
4	San Dieguito	Safari Park Water Reuse Sustainability and Watershed Protection Project	Zoological Society of San Diego	Yes	30	70	30	18	27	175
30	San Luis Rey	Storm Water Management Phase I: Feasibility Study and Conceptual Design for the Capture and Beneficial Use of Storm Water on the Rincon Band of Luiseno Indians Reservation	Rincon Band of Luiseno Indians	Yes	38	5	5	9	34	91
16	Sweetwater	Telegraph Canyon Channel Improvement Project	City of Chula Vista	Yes	38	5	25	24	27	119
5	Sweetwater	Sweetwater River Park Bioretention	City of National City	Yes	24	25	10	15	30	104
1	Tijuana	Low Impact Development Urban Runoff Control Projects for the Tijuana Estuary	City of Imperial Beach	Yes	36	40	10	12	29	127
33	Tijuana	Tijuana River Floating Trash Capture System	Earth Island Institute/Alter Terra	Yes	38	5	5	9	34	91



SOURCE: ESRI, 2016; SanGIS, 2016

SWRP . 160618

**Figure I-1**

San Diego Region SWRP Project Locations

San Diego Regional SWRP Projects - Quantified Metrics, Continued

				Step 2: Project Metrics - Water Quality Benefits									Step 2: Project Metrics - Water Supply Benefit		
Project Number	Watershed	Project Title	Sponsor Organization	(WQ.3) Fecal Coliform MPN/yr	(WQ.3) TSS lbs/yr	(WQ.3) Total Phosphorus lbs/yr	(WQ.3) Total Nitrogen lbs/yr	(WQ.3) Copper lbs/yr	(WQ.3) Lead lbs/yr	(WQ.3) Zinc lbs/yr	(WQ.3) Selenium lbs/yr	(WQ.3) Stormwater Runoff gallons/yr	(WS.5) Water Stored/Conserved (AF/yr)	(WS.7) Water Infiltration Volume (Direct Basin Use) (AF/yr)	(WS.9) Water Infiltration Volume (Non-Direct Basin Use) (AF/yr)
1	Tijuana	Low Impact Development Urban Runoff Control Projects for the Tijuana Estuary	City of Imperial Beach	2.06E+12								972,468			3.0
2	San Diegoito	Safari Park Storm Water Capture and Reuse Project	Zoological Society of San Diego		1270							185,735	5.15	0.57	
3	San Diego River	Storm water Capture off San Diego River along Alvarado Canyon and Fairmont Canyon to Fish and Wildlife site	City of San Diego Public Utilities Department												
4	San Diegoito	Safari Park Water Reuse Sustainability and Watershed Protection Project	Zoological Society of San Diego		5474	3	62						14.96	3.74	
5	Sweetwater	Sweetwater River Park Bioretention	City of National City		5,856	12	86.8	1.96	1.03	13	0.12	7,233,892	22.2	20.3	
6	Carlsbad	Leucadia Roadside Park Stormwater Capture/Reuse Project	City of Encinitas												
7	San Diego River	Las Colinas Channel Improvements	City of Santee												
8	San Diego Bay, Pueblo	Bakersfield Street and San Altos Channel Restoration	City of Lemon Grove	4.62E+13								3,785,163	11.62		
9	Penasquitos	Pure Water -Los Peñasquitos Creek Urban Dry-Weather Water Harvesting	City of San Diego Public Utilities Department												
10	San Diego River	Sycamore Creek Restoration	City of Santee												
11	Carlsbad	Alternative Compliance Retrofit Project Mountain View Park, Escondido	City of Escondido												
12	Carlsbad	Alternative Compliance Retrofit Project El Norte Parkway and Rincon Villa Drive, Escondido	City of Escondido												
13	Otay	Nestor Creek Channel Restoration	Earth Island Institute/Alter Terra												
14	San Diegoito	Alternative Compliance Retrofit Project Avenida Del Diablo Park, Escondido	City of Escondido												
15	Carlsbad	City of Oceanside Loma Alta Slough Restoration Project	City of Oceanside			10.7	828								
16	San Diego Bay	Telegraph Canyon Channel Improvement Project	City of Chula Vista		3000			2	2	5	0.05	2,000,000			
17	San Diego Bay, Pueblo	Main Street Promenade Extension	City of Lemon Grove	5.06E+13				5.25	1.9	38.01		71,412,102	22.75		
18	Carlsbad	Spruce Street Channel Improvement Project	City of Escondido												
19	San Diego Bay, Pueblo	Broadway/Federal Blvd Green Street	City of Lemon Grove	7.77E+12				8.06	2.92	58.35					
20	San Diego River	Mapleview Street - Green Infrastructure and Stormwater Quality Improvement Project	County of San Diego	2.90E+11								3,663,373			0.21
21	San Diego Bay, Pueblo	Lemon Grove Avenue Green Streets	City of Lemon Grove	4.87E+13				5.05	1.83	36.57		800,000			
22	Carlsbad	South Santa Fe Green Street Project	City of Vista									2,295,935			
23	San Diego Bay, Pueblo	Skyline Dr and Kempt St Green Streets	City of Lemon Grove	4.09E+13				4.24	1.54	30.71					
24	San Diego Bay, Pueblo	Massachusetts Blvd Green Street	City of Lemon Grove	4.12E+13				4.27	1.55	30.94		1,928,274			
25	San Diego Bay, Pueblo	North Ave and Grove Green Street	City of Lemon Grove	3.29E+13				3.41	1.24	24.7		1,942,339			
26	San Diego River	Woodside Avenue Complete Green Street	County of San Diego									1,550,818			
27	San Diego Bay, Pueblo	San Miguel Green Street	City of Lemon Grove	3.49E+12				3.62	1.31	26.2					
28	San Diego Bay, Pueblo	Central Avenue Green Street	City of Lemon Grove	3.30E+13				3.42	1.24	24.75		1,645,009			
29	San Diego Bay, Pueblo	Mt. Vernon St Green Street	City of Lemon Grove	4.26E+13				4.42	1.6	32.02		1,554,124			
30	San Diego Bay, Pueblo	Palm St Green Street	City of Lemon Grove	1.66E+13				1.72	0.62	12.46		2,010,063			
31	San Luis Rey	Storm Water Management Phase I: Feasibility Study and Conceptual Design for the Capture and Beneficial Use of Storm Water on the Rincon	Rincon Band of Luiseno Indians									782,245			
32	Carlsbad	San Marino Drive Green Street and Dry Weather Flow Management	County of San Diego			4.27	18.6								2.45
33	San Diego Bay, Pueblo	69th St Green Street	City of Lemon Grove	3.09E+12				0.32	0.12	2.32		459,603			
34	Tijuana	Tijuana River Floating Trash Capture System	Earth Island Institute/Alter Terra									145,673			
35	San Diego Bay, Pueblo	Madera St Green Street	City of Lemon Grove	1.63E+13				1.69	0.61	12.25					
36	San Diego Bay, Pueblo	Paradise Creek Restoration Phase II	City of National City		3000	1	7	1	1	1	0.01	2,000,000			
37	San Diego Bay, Pueblo	Canton Dr Green Street	City of Lemon Grove	2.32E+13				2.41	0.87	17.41					
38	San Diego Bay, Pueblo	Golden Ave Green Street	City of Lemon Grove	1.47E+14				15.26	5.53	110.46		1,092,871			
39	San Diego Bay, Pueblo	Sweetwater Rd Green Street	City of Lemon Grove	1.27E+13				1.32	0.48	9.56		6,935,057			
40	San Diego Bay, Pueblo	Lincoln St Green Street	City of Lemon Grove	1.64E+13				1.71	0.62	12.34		599,989			
41	San Diego Bay, Pueblo	Federal Blvd Channel	City of Lemon Grove	1.91E+13								103,576	3.03		
42	San Diego River	Broadway Channel Flood Risk Reduction and Water Quality Improvements	City of El Cajon		2000			1	1	2		998,203			
43	San Diego Bay, Pueblo	Paradise Valley Creek Water Quality and Community Enhancement	City of National City		5000							100,000			
Total				6.04E+14	25,600	31	1,002	72	29	500	0	116,196,512	80	25	6

RP Projects - Quantified Metrics, Continued

		Step 2: Project Metrics - Flood Management Benefit			Step 2: Project Metrics - Environmental Benefit					Step 2: Project Metrics - Community Benefit		
Project Title	Sponsor Organization	(FM.2) Peak Flow Reduction	(FM.3) Infiltration Volume	(FM.4) Onsite Storage Volume	(EB.2) Habitat Area Created/Protected	(EB.4) Change in Peak Flow Timing	(EB.5) Reduction in Flow	(EB.9) Reduction in Energy Use or GHG Emissions (or Inc. GHG Storage)	(EB.11) Area of Urban Green Space	(CB.2) Created Recreational and Public Areas	(CB.4) Number of Community Members Involved	(CB.6) Number of Jobs Created
Low Impact Development Urban Runoff Control Projects for the Tijuana Estuary	City of Imperial Beach	NA	NA	4,919 CF	NA	NA	NA	NA	316 SF	NA	NA	NA
Safari Park Storm Water Capture and Reuse Project	Zoological Society of San Diego	Yes, details available from sponsor	0.57 AC/yr will be infiltrated.	5.15 AC/yr.	NA	NA	Return PeriodPeak Volume (ft3)Reduced Volume (ft3)	NA	NA	NA	More than 1,500,000 individuals each year.	NA
Storm water Capture off San Diego River along Alvarado Canyon and Fairmont Canyon to Fish and Wildlife site	City of San Diego Public Utilities Department	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Safari Park Water Reuse Sustainability and Watershed Protection Project	Zoological Society of San Diego	Yes, details available from sponsor	3.74 AC/yr will be infiltrated.	14.96 AC/yr.	NA	NA	Return PeriodPeak Volume (ft3)Reduced Volume (ft3) 25	NA	NA	NA	1.5 million	NA
Sweetwater River Park Bioretention	City of National City	NA	6,614,774 gallons/year	NA	3.44	NA	NA	NA	3.44 acrse	4.3 acres	5	5
Leucadia Roadside Park Stormwater Capture/Reuse Project	City of Encinitas	NA	NA	NA	NA	NA	NA	NA	NA	4,400	NA	NA
Las Colinas Channel Improvements	City of Santee	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bakersfield Street and San Altos Channel Restoration	City of Lemon Grove	NA	NA	NA	3.82 acres	NA	NA	NA	NA	NA	15	15
Pure Water -Los Peñasquitos Creek Urban Dry-Weather Water Harvesting	City of San Diego Public Utilities Department	NA	1.5 cfs	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sycamore Creek Restoration	City of Santee	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alternative Compliance Retrofit Project Mountain View Park, Escondido	City of Escondido	NA			NA	NA		NA	NA	NA	NA	NA
Alternative Compliance Retrofit Project El Norte Parkway and Rincon Villa Drive, Escondido	City of Escondido	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nestor Creek Channel Restoration	Earth Island Institute/Alter Terra	NA	NA	NA	2,500 linear feet of creek channel restored	NA	NA	NA	2,500 linear feet	2,500 linear feet	NA	NA
Alternative Compliance Retrofit Project Avenida Del Diablo Park, Escondido	City of Escondido	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
City of Oceanside Loma Alta Slough Restoration Project	City of Oceanside	NA	NA	NA	1.8	NA	NA	NA	1.8	<1 acre	NA	NA
Telegraph Canyon Channel Improvement Project	City of Chula Vista		2,000,000 gals/yr	NA			NA	NA			NA	NA
Main Street Promenade Extension	City of Lemon Grove	NA	NA	NA	5.34 acres	NA	NA	NA	NA	14.96 acres	15	15
Spruce Street Channel Improvement Project	City of Escondido	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA
Broadway/Federal Blvd Green Street	City of Lemon Grove	NA	NA	NA	NA	NA	NA	NA	NA	8.15 acres	15	15
Mapleview Street - Green Infrastructure and Stormwater Quality Improvement Project	County of San Diego	NA	20466701 gals/yr	NA	NA	NA	NA	NA	20000 sq. ft of green infrastructure (tree wils,	1000 sq. ft. of new sidewalk	15	NA
Lemon Grove Avenue Green Streets	City of Lemon Grove	NA	NA	NA	NA	NA	NA	NA	NA	4.97 acres	10	10
South Santa Fe Green Street Project	City of Vista	5.3 AFY	18.5 AFY	18.5 AFY	NA	See Prop 1 application	See TRWE Report	790 lbs/yr	9,500 SF	See Prop 1	NA	NA
Skyline Dr and Kempt St Green Streets	City of Lemon Grove	NA	NA	NA	NA	NA	NA	NA	NA	3.59 acres	10	10
Massachusetts Blvd Green Street	City of Lemon Grove	NA	NA	NA	NA	NA	NA	NA	NA	3.37 acres	15	15
North Ave and Grove Green Street	City of Lemon Grove	NA	NA	NA	NA	NA	NA	NA	NA	1.42 acres	15	15
Woodside Avenue Complete Green Street	County of San Diego	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	NA
San Miguel Green Street	City of Lemon Grove	NA	NA	NA	NA	NA	NA	NA	NA	1.65 acres	15	15
Central Avenue Green Street	City of Lemon Grove	NA	NA	NA	NA	NA	NA	NA	NA	1.40 acres	15	15
Mt. Vernon St Green Street	City of Lemon Grove	NA	NA	NA	NA	NA	NA	NA	NA	1.89 acres	15	15
Palm St Green Street	City of Lemon Grove	NA	NA	NA	NA	NA	NA	NA	NA	1.51 acres	15	15
Storm Water Management Phase I: Feasibility Study and Conceptual Design for the Capture and Beneficial Use of Storm Water on the Rincon	Rincon Band of Luiseno Indians	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
San Marino Drive Green Street and Dry Weather Flow Management	County of San Diego	NA	NA	NA	NA	NA	NA	NA	2781 sq. ft. of trees wells	NA	30	NA
69th St Green Street	City of Lemon Grove	NA	NA	NA	NA	NA	NA	NA	NA	0.12 acres	15	15
Tijuana River Floating Trash Capture System	Earth Island Institute/Alter Terra	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Madera St Green Street	City of Lemon Grove	NA	NA	NA	NA	NA	NA	NA	NA	1.21 acres	10	10
Paradise Creek Restoration Phase II	City of National City	NA	2,000,000 gals/yr	NA	7 acres	NA	NA	NA	3 acres	3 arces	NA	NA
Canton Dr Green Street	City of Lemon Grove	NA	NA	NA	NA	NA	NA	NA	NA	1.31 acres	15	15
Golden Ave Green Street	City of Lemon Grove	NA	NA	NA	1.44 acres	NA	NA	NA	NA	1.44 acres	15	15
Sweetwater Rd Green Street	City of Lemon Grove	NA	NA	NA	NA	NA	NA	NA	NA	1.07 acres	10	10
Lincoln St Green Street	City of Lemon Grove	NA	NA	NA	NA	NA	NA	NA	NA	0.71 acres	10	10
Federal Blvd Channel	City of Lemon Grove	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	15
Broadway Channel Flood Risk Reduction and Water Quality Improvements	City of El Cajon	NA	1,500,000 gals/yr	NA	NA	NA	NA	NA	NA	NA	NA	NA
Paradise Valley Creek Water Quality and Community Enhancement	City of National City		100,000	100,000	NA	NA	NA	NA	NA	NA	NA	NA

## San Diego IRWM Conceptual Stormwater Projects

The following are conceptual stormwater projects from the IRWM San Diego Regional Database which have not gone through the SWRP online OPTI eligibility checklist and, therefore are not quantified or prioritized. Project sponsors are encouraged to enter information through the SWRP online OPTI checklist to determine project eligibility, quantification and prioritization for placement on the project list.

Watershed	Project Title	Sponsor Organization	Conceptual Project Summary
Carlsbad, San Dieguito River, Penasquitos, San Diego River, Tijuana River	San Diego County Beaches Wet Weather Contamination Assessment	San Diego Coastkeeper	The San Diego County Beaches Wet Weather Contamination Assessment project will measure FIB, document the human input, if any, and remove trash. Sample collection will focus on rain events to accurately measure ocean water quality impacted by stormwater. Data will be sent to the state and Heal The Bay, allowing the public to access more accurate wet weather water quality data and grades.
San Dieguito River	East and West Riparian Corridor Project	Zoological Society of San Diego	The Wild Animal Park will create riparian corridors throughout the Park's East and West valley exhibits to enhance the water quality for on-grounds use by filtering out pollutants. Grant funds would be used to conduct the planning phase of the project and complete the construction documents that will be used to bid out the final project.
San Dieguito River	Safari Park Storm Water Runoff Management Project	Zoological Society of San Diego	The Zoological Society proposes to design and install a storm water management system at the Safari Park and demonstrate effective management of storm water runoff from parking lots. The system will be designed to slow down rain water, clean it through permeable pavers and biofiltration wetlands, and enable the water to soak into the soil. It will also reduce the amount of storm water and pollutants leaving the Safari Park property and entering local San Diego waterways that flow into the Pacific Ocean.
Penasquitos	Bannock Avenue Neighborhood Streetscape Improvements & Bacteria Treatment for Tecolote Creek Watershed Protection	City of San Diego - Storm Water	Streetscape improved will include installation of 6 pervious concrete sidewalk, one hydrodynamic separator, 550 bio-retention cells at two each residence, one high volume bacterial filtration storm water and perforated storm drain pipe connecting BMPs. This system will be designed to capture the storm water runoff from the first 0.25 inch of rainfall to increase storage/infiltration capacity for the bio-retention areas.
Penasquitos	City of San Diego - Mt. Abernathy Green Street Project	City of San Diego - Storm Water	Three types of landscaped vegetated bio-infiltration and bio-filtration areas will be constructed between existing curb and sidewalk areas which will be planted with drought-tolerant plants. Existing sidewalks will be replaced with pervious concrete designed to capture the storm water runoff from the first 0.25 inch of rainfall to increase storage/infiltration capacity for the bioretention areas.
San Deigo Bay, Pueblo	Phase I-Chollas Creek Integration Project/Part C	University of California	The project will administer and support the existing IPM education and outreach program know as Healthy Garden-Healthy Home. Program will include conducting Community Workshops and participating in community events, developing new materials, and adding additional workshops in Spanish.
San Deigo Bay, Pueblo	San Diego Green School Yard Alliance	San Diego Coastkeeper	The Project will work with schools to replace existing hardscapes with low impact development features to capture and slow runoff. Schoolyards typically represent large areas of impervious surfaces in communities. Reducing the amount of hardscape in schoolyards can help prevent pollution while providing several non-stormwater benefits to schools.
San Dieguito River	East Riparian Corridor Project Phase-1	Zoological Society of San Diego	The Wild Animal Park will create water corridors through the Park's East valley exhibit to increase water quality for on-grounds use. These new water corridors will also reduce pollution during storm events when the water is discharged off property into local San Diego waterways.
San Deigo Bay, Pueblo	Southcrest Park Green Lot Infiltration	City of San Diego - Storm Water	The grant-funded portion of the project includes porous pavement in parking lots in Southcrest Park. The creek enhancement component will remove invasive species, enhance access views and trails, remove accumulated trash and incorporate outreach and educational elements. Three parking lots under design for re-pavement using porous materials will be constructed to capture the storm water runoff.

## San Diego IRWM Conceptual Stormwater Projects, Continued

The following are conceptual stormwater projects from the IRWM San Diego Regional Database which have not gone through the SWRP online OPTI eligibility checklist and, therefore are not quantified or prioritized. Project sponsors are encouraged to enter information through the SWRP online OPTI checklist to determine project eligibility, quantification and prioritization for placement on the project list.

Watershed	Project Title	Sponsor Organization	Conceptual Project Summary
San Dieguito River, Penasquitos, San Diego River	Evaluation and Replacement of Deteriorated Corrugated Metal Pipe Flood Control Infrastructure	City of Poway	The Corrugated Metal Pipe (CMP) Study will provide the City of Poway with an inventory of all existing CMP, documenting location, size, diameter, condition, and prioritization for rehabilitation. Results of the study will be used to identify rehabilitation projects, which will be completed as part of the City's Capital Improvement Program or as maintenance projects for the Stormwater Division.
Santa Margarita River	Implementing Nutrient Management in the Santa Margarita River Watershed - Phase I	County of San Diego	This project will use a scientific, stakeholder-based process to set nutrient WQOs for the watershed and implement nutrient reduction and water conservation practices. Benefits include: 1) reduction of NPS runoff & eutrophication, 2) water conservation, 3) habitat/open space protection/restoration, 4) proof-of-concept for a science-based approach to establish nutrient WQOs, and 5) stakeholder buy-in.
Santa Margarita River	Implementing Nutrient Management in the Santa Margarita River Watershed - Phase II	County of San Diego	This project is a continuation of the Implementing Nutrient Management in the Santa Margarita River Watershed Phase I Project. The project aims to continue to facilitate the Stakeholder Advisory Group (begun during Phase I), continue the core monitoring and special studies to address data gaps identified by stakeholders to achieve project objectives, and to partner with the RWQCB staff in the development of nutrient WQOs for the Santa Margarita River and Estuary.
San Dieguito River	Lake Hodges Water Quality Improvements	San Diego County Water Authority	This project encompasses a feasibility study and has the potential for limited design and implementation of effective and efficient methods to improve water quality at Lake Hodges with the aim of both increased source water usability and reduced operational costs. It focuses on capital assets that can be installed within the reservoir, pump station, and an adjacent river.
San Dieguito River	San Pasqual Academy Water Quality Control & Stormwater Management Program	SD County Dept. of General Services	The project will be implemented in 3 phases: Phase 1 includes planning, design, feasibility & environmental assessment studies; Phases 2 and 3 include project construction/implementation for nine improvement/conservation elements at San Pasqual Academy. Project will include hydrologic & hydraulic studies as well as an Environmental Assessment (EA). The EA will consider stream bed analysis and alternative designs, impacts of low impact development BMPs, soils, an upgrade to the package treatment plant, assessment of alternative sites for the spray fields; and potential areas for habitat restoration.
Carlsbad	Upper San Marcos Creek/Lake San Marcos Nutrient Diagnostic and Cleanup Project - Phases 1,2 and 3	City of San Marcos	The project proposes to investigate nutrient sources of the upstream watershed and the lake through water quality diagnostics, modeling, preparation of a water budget, and a nutrient budget. It will also identify feasible remediation to address the nutrient impairment of the lake to restore beneficial uses, and implement a pilot remediation project.
Carlsbad, San Dieguito River	North San Diego County Cooperative Demineralization Project	San Elijo Joint Powers Authority	The North San Diego County Cooperative Demineralization Project will construct advanced water treatment at the SEWRF for salinity management, production expansion, stormwater treatment and pollution mitigation. The SEWRF demineralization facility will provide integral logistics and technical data to assist OMWD with planning and design efforts for a future brackish water desalination facility.
San Dieguito River	Lake Hodges Water Quality and Quagga Mitigation Measures	San Diego County Water Authority	This project will complete a feasibility study, conceptual design, and limited implementation of capital improvements and preventive maintenance measures for quagga control and water quality improvements at Lake Hodges, Olivenhain Reservoir, San Dieguito Reservoir, interconnected pipelines and facilities. The main goals of this project are increased regional source water usability and reduced operating costs.
San Deigo Bay, Pueblo	PLNU Water Management	Point Loma Nazarene University	Sunset Cliffs Natural Park could be preserved using various Low Impact Development (LID) techniques. Reducing stormwater volume will reduce park erosion and pollutants within the runoff that flows into the ocean. Because of the public use, this would be a highly visible demonstration site for integrated water management concepts. LID elements will achieve multiple environmental, social and economic benefits.

## **San Diego IRWM Conceptual Stormwater Projects, Continued**

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<b>Watershed</b>	<b>Project Title</b>	<b>Sponsor Organization</b>	<b>Conceptual Project Summary</b>
Sweetwater River	Chollas Creek Integration Project Phase II	Jacobs Center for Neighborhood Innovation	Chollas Creek Integration Project Phase 2 completes construction activities and habitat restoration delineated in Phase 1 at Northwest Village. The project improves water quality through: engineering modifications to slow creek flow and prevent erosion and flooding; contaminate uptake and natural filtration through restoration with native species of six acres; obtaining a streamlined process for CEQA and regional permitting that supports the on-going, long-term invasives removal and restoration; community engagement in social values research, citizen science and water quality sampling.
San Dieguito River	San Pasqual Academy	County of San Diego, General Services	The proposed project includes constructing a sedimentation basin at the base of Schoolhouse Canyon Creek located south of the San Pasqual Academy (the project site) where runoff enters the project site, and constructing a vegetated channel that will include a series of bio-retention basins that promote filtration and infiltration, as well as provide for groundwater recharge. Construction of the channel includes; demolition of an existing dual 36 culvert system, gabion, concrete channel and associated structures.
San Diego River	San Diego RiverNet	San Diego State University	The San Diego RiverNet program will create a watershed-wide outdoor laboratory and classroom dedicated to understanding the diverse factors that influence a watershed. The project will deploy a network of sensors for real-time monitoring of the environment, targeting water quality, weather, and other factors (e.g. radiation PAR, and hydrocarbons). This project will collect data, track changes, and help agencies understand the environment at a large temporal and spatial scale.
Tijuana River	Tijuana River - Smugglers Gulch Sediment Basin	City of San Diego - Storm Water	To help reduce the impacts of the pollutants (including sediment and trash) in the Tijuana River Valley, the City of San Diego will construct a sediment basin adjacent to the Smugglers Gulch channel. The proposed project will build on an existing feasibility study and entails hydrology and hydraulics studies, site selection, preliminary engineering and the development of preliminary CEQA documentation to construct a sediment basin for Smugglers Gulch.
Tijuana River	Tijuana River Valley Sediment Management Plan	City of San Diego - Storm Water	The City of San Diego is proposing to develop an integrated Sediment Management Plan (SMP) for the Tijuana River Valley. The SMP will be a resource tool to consider the suite of sediment management needs in the valley, evaluate potential management alternatives and provide a framework for cost-efficient sediment management activities to improve flood conveyance capacity and water quality. The SMP will allow for efficient use of available resources to address sediment management needs.
San Dieguito River	Hodges Reservoir Natural Treatment System	City of San Diego Public Utilities Department	The Project will use the recommendations of two existing studies to identify an approach to reducing nutrient loading and cycling in the Hodges Reservoir and design and construct a natural treatment system (NTS). The primary goal is the improvement of water quality and reduction of treatment costs. Secondary goals include providing habitat and species conservation benefits, minimizing land use conflicts, and streamlining regulatory compliance.
Carlsbad	Spruce Street Channel	City of Escondido	The Project will include clearing, excavation to restore gradient, and bank stabilization of the earth-lined channel between Escondido Creek and West Valley Parkway, as well as construction of a new, safe pedestrian walkway, and clearing vegetation and excavating sediment in the earth-lined channel between West Valley Parkway and Grand Avenue. The work will also include the removal of deposited sediment from the concrete-lined channel, installation of an additional box culvert, and the construction of new concrete wingwall structures to improve the water flow in the remaining channelized portions to further improve the overall health of the
San Luis Rey River, Carlsbad, San Dieguito River, Penasquitos, San Diego	San Diego County Water Quality Assessment & Education	San Diego Coastkeeper	San Diego Coastkeeper will train and manage volunteers to collect and analyze water samples throughout the county. The program will establish baseline ambient conditions, and seeks to move toward targeted, question-based sampling. Through trainings, sampling events and communication of water quality data and information in a way that is accessible to both public members as well as water quality managers, the project will enhance the knowledge and stewardship of water quality in San Diego County.
Santa Margarita River	Implementing Nutrient Management in the Santa Margarita River Watershed Phase III	Southern California Coastal Water Research Project	This project is the third phase of the overall Implementing Nutrient Management in the Santa Margarita River Watershed project. Phase III will involve continued monitoring that would include selected tributaries to the main stem of SMR, conducting additional modeling studies to refine nutrient WQGs in these tributaries and identify areas where nutrient reduction activities would be the most productive. It will also include implementation consisting of agricultural irrigation evaluations and residential and equestrian conservation plans to identify nutrient reducing BMPs, conducting public workshops, and a rebate program for irrigation system

### **San Diego IRWM Conceptual Stormwater Projects, Continued**

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<b>Watershed</b>	<b>Project Title</b>	<b>Sponsor Organization</b>	<b>Conceptual Project Summary</b>
Carlsbad	VWD Stanley Mahr Reservoir Water Quality Improvement Project	Vallecitos Water District	The Project will improve quality of stored recycled water and increase the usable capacity of the reservoir. It will construct a 385,000 square-foot (SF) porous asphaltic-cement or polypropylene liner and a 350,000 SF weight-tensioned, polypropylene cover on the existing 54 MG (166 AF) recycled water reservoir to improve quality of the stored recycled water. In addition, the Project will involve the construction of a sodium hypochlorite system and six more aerators for the reservoir.
San Diego River	Recycled Water Plant Upgrades and Water Quality Improvements	Ramona Municipal Water District	-