

NOC IRWMP
Project Matrix

Project Name	Agency	Contact Name/Phone No.	Description	Location	Benefits	Watershed
Yorba Regional Park Constructed Wetland and Landscape Project	City of Anaheim	Keith Linker Principal Civil Engineer 714-765-4141	Rerouting of low flow (urban slobber) and portion of first flush storm flow to constructed wetland in vacant 8 acre dirt lot, for treatment and to sustain vegetation for wildlife habitat. Once water is cleaned in wetland, discharge would flow to infiltra	South west corner of Yorba Regional Park, between La Palma and SAR	Water Quality, Improved flood protection (limited), Groundwater recharge	SAR
ARTIC, Detention/ Infiltration Basin	City of Anaheim	Jamie Lai Transit Manager 714-765-5176	Inclusion of grass swales and/or detention basins intended to capture surface flows from the ARTIC facility (and perhaps the Honda Center).	Katella Ave/Douglass Rd	Improved flood protection (limited), Groundwater recharge	SAR
School Water Conservation Audit/Retrofit Program	City of Anaheim	Al Shaikh Principal Water Engineer 714-765-5268 ashaikh@anaheim.net	To implement indoor/outdoor water conservation devices and measures at schools within the City of Anaheim, with the purpose of creating a model for other school districts in water management.	Anaheim Union School District; Anaheim City School District	water supply	ALL
Sunny Slope Nursery	City of Anaheim	Keith Linker Principal Civil Engineer 714-765-4141	Creation of a wetland to receive and treat stormwater and provide for infiltration in Orange County Water District and Caltrans Right of Way	Imperial Highway, between the 91 Freeway and the Santa Ana River.	Water quality benefits, Groundwater recharge, Flood protection	SAR
Reconfiguration of Landscape on Brookhurst	City of Anaheim	Rudy Emami Design Services Manager 714-765-5065	Regrading and installation of landscape providing filtration and infiltration of surface flows from the adjacent roadway	Brookhurst between Lincoln and Ball	Water quality benefits, Groundwater recharge, Trail linkages	SGR-CC
Detention Basins at Various Parks	City of Anaheim	Larry Pasco Parks Superintendent 714-765-5681	Re-grading of Park and school sites to allow surface flow from adjacent streets into detention basin for flood control purposes as well as pollutant removal and/or infiltration	Loara HS athletic field (1765 W. Cerritos Ave), Modjeska Park, Barton Clara Elementary School (Chateau and Agate)	Water quality benefits, Groundwater recharge, Flood protection	SGR-CC AB-HH
Stadium Parking Lot Reconfiguration	City of Anaheim	Tanya LaSoya Admin Services Manager 714-765-8985	Inclusion of pervious areas (pervious concrete, landscape islands, or similar controls to treat and/or infiltrate stormwater)	South Parking Lot of Anaheim Stadium	Groundwater recharge, water quality	SAR
Shallow Aquifer Pumping for Nonpotable Uses	City of Anaheim	Al Shaikh Principal Water Engineer 714-765-5268 ashaikh@anaheim.net	Install wells to depths of 100 to 300 feet and utilize water for irrigation or other nonpotable uses. Will help to improve the groundwater quality by reducing leakage of low quality water into the main aquifer.	Throughout Anaheim where feasible	Water supply	ALL
Right of Way Projects	City of Anaheim	Keith Linker Principal Civil Engineer 714-765-4141	Inclusion of "reverse curb drains" and detention areas in Road Projects (widening, reconstruction, etc.) intended to capture surface flows from roads and allow treatment and infiltration	Various locations along arterials throughout the City	Water quality benefits, Groundwater recharge, Flood protection	ALL
Pedestrian Friendly Sidewalk Bulb-outs, Medians and Traffic Calming Devices	City of Anaheim	Mark Brownrigg/Kerry Kemp Project Manager 714-765-4596	Installation of landscape areas in bulb-outs where flow from the adjacent curb and gutter would flow into landscape area in bulb-out.	Various locations near intersections primarily near downtown Anaheim	Water quality, water supply, flood protection	SGR-CC AB-HH
Underground Detention at Boysen Park Parking Lot	City of Anaheim	Alan Hudak Urban Forestry Manager 714-765-6915	Installation of underground chambers to capture stormwater runoff from parking lot and for treatment and infiltration	Parking lots of Anaheim Tennis Ctr. / Boysen Park	Water quality, water supply	SGR-CC

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Anaheim Hills Golf Course Constructed Wetland Water Feature	City of Anaheim	Michael Lautenbach Community Services 714-221-2729	Inclusion of a constructed wetland water feature and water reclamation in future Golf Course Reconfiguration.	Anaheim Hills Golf Course	Water quality benefits, Groundwater recharge	SAR
Turf Conversion to Artificial Turf and/or California Friendly Landscaping	City of Anaheim	Al Shaikh Principal Water Engineer 714-765-5268 ashaikh@anaheim.net	A water conservation rebate program, where the customer would receive a rebate of \$2.60 per square foot to convert existing turf grass to artificial turf and/or California Friendly landscaping.	Anaheim Water Service Area	Water Quality, water supply	SGR-CC AB-HH
Anaheim Downtown Water Recycling Project	City of Anaheim	Al Shaikh Principal Water Engineer 714-765-5268 ashaikh@anaheim.net	To serve recycled water for landscape irrigation and toilet/urinal flushing in Downtown Anaheim. The project includes a stormwater recharge component. Construction is scheduled to begin in September 2010.	Downtown Anaheim	Water supply	SGR-CC AB-HH
Ball Road Recycled Water Project	City of Anaheim	Al Shaikh Principal Water Engineer 714-765-5268 ashaikh@anaheim.net	Provide recycled water for 1) toilet/urinal flushing in the future office, commercial and residential buildings within the Platinum Triangle and 2) landscape irrigation in the Platinum Triangle and Disneyland area.	Platinum Triangle and Disneyland Resort Area	Water supply	AB-HH
Destroy Inactive Wells	City of Anaheim	Dick Wilson Environmental Services Manager 714-765-4277	Locate and properly destroy inactive wells. Many of these wells no longer have a legally responsible owner due to subdivision of property. Restoration of riparian habitat on the top of the riverbank over approximately 416 acres. Currently bike trail and OCFCD maintenance road and park use. Project would not interfere but would enhance these uses.	Citywide	Water supply	ALL
Santa Ana River, between Lincoln and Imperial	City of Anaheim	Keith Linker Principal Civil Engineer 714-765-4141	Creation of wetland to receive and treat stormwater and provide for infiltration	3.5 miles of riverbank and associated park space	Water Quality	SAR
“Orange Strip” adjacent to Honda Center/ARTIC	City of Anaheim	Keith Linker Principal Civil Engineer 714-765-4142	Creation of one or more wetland to receive and treat stormwater discharges	North Side of Katella adjacent to Santa Ana River in City of Orange	Water quality benefits, Groundwater recharge, Flood protection	SAR
Addition of wetlands to detention basins adjacent to Carbon Creek	City of Anaheim	Keith Linker Principal Civil Engineer 714-765-4143	Reconstruction of undersized and deteriorated sewer lines.	Crescent Basin, Raymond Basin and Placentia Basin	Water Quality	SGR-CC
Sewer Reconstruction at Beach, Orange, Rome and Ball Streets	City of Anaheim	Khanh Chu Principal Civil Engineer 714-765-5821 KChu@anaheim.net	Reconstruction of undersized and deteriorated sewer lines.	Beach, Orange, Rome and Ball Streets	Water Quality	SGR-CC AB-HH
Sewer Reconstruction at Cerritos, from Nutwood to Brookhurst	City of Anaheim	Khanh Chu Principal Civil Engineer 714-765-5821	Reconstruction of undersized and deteriorated sewer lines.	Cerritos, from Nutwood to Brookhurst	Water Quality	SGR-CC AB-HH

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Sewer Reconstruction at Western Avenue	City of Anaheim	Khanh Chu Principal Civil Engineer 714-765-5821 KChu@anaheim.net	Reconstruction of undersized and deteriorated sewer lines.	Western Avenue	Water Quality	SGR-CC
Sewer Reconstruction at Broadway, from Brookhurst to Gilbert	City of Anaheim	Khanh Chu Principal Civil Engineer 714-765-5821 KChu@anaheim.net	Reconstruction of undersized and deteriorated sewer lines.	Broadway, from Brookhurst to Gilbert	Water Quality	SGR-CC
Sewer Reconstruction at Water Street	City of Anaheim	Khanh Chu Principal Civil Engineer 714-765-5821 KChu@anaheim.net	Reconstruction of undersized and deteriorated sewer lines.	Water Street	Water Quality	AB-HH
Sewer Reconstruction at Chapman Avenue	City of Anaheim	Khanh Chu Principal Civil Engineer 714-765-5821 KChu@anaheim.net	Reconstruction of undersized and deteriorated sewer lines.	Chapman Avenue	Water Quality	AB-HH
Sewer Reconstruction at Ward Terrace and Underhill	City of Anaheim	Khanh Chu Principal Civil Engineer 714-765-5821 KChu@anaheim.net	Reconstruction of undersized and deteriorated sewer lines.	Ward Terrace and Underhill	Water Quality	SAR
Infiltration Dry Well at sump area in Utilities Yard	City of Anaheim	Dick Wilson Environmental Services Manager 714-765-4277	Vertical lined dry well with pretreatment, to collect rainwater from a parking area at a Utilities Service yard and infiltrate it.	909 E. Vermont Ave. Anaheim	Water quality benefits, Groundwater recharge, Flood protection	AB-HH
Retarding Basin	City of Anaheim	Khanh Chu Principal Civil Engineer 714-765-5821 KChu@anaheim.net	Sump area in park for detention of peak stormwater flow.	Mojedska Park	Water quality benefits, Groundwater recharge, Flood protection	SAR
Retarding Basin	City of Anaheim	Khanh Chu Principal Civil Engineer 714-765-5821 KChu@anaheim.net	Sump area in park for detention of peak stormwater flow.	Loara High Ball Field	Water quality benefits, Groundwater recharge, Flood protection	AB-HH
Retarding Basin	City of Anaheim	Khanh Chu Principal Civil Engineer 714-765-5821 KChu@anaheim.net	Sump area in park for detention of peak stormwater flow.	Properties adjacent to and south of Katella, between Harbor and Anaheim Blvd.	Water quality benefits, Groundwater recharge, Flood protection	SAR
Turf Conversion to Artificial Turf and/or California Friendly Landscaping	City of Anaheim	Issis Macias Sr. Water Resources Analyst 714-765-5029	A water conservation rebate program, where the customer would receive a rebate of \$2.50 per square foot to convert existing turf grass to artificial turf and/or California Friendly landscaping.	Anaheim Water Service Area	Water supply	ALL

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Anaheim Resort District centralized irrigation system installation.	City of Anaheim	Issis Macias Sr. Water Resources Analyst 714-765-5029	Upgrade the Anaheim Resort District's irrigation system to weather-based, centralized technology.	Anaheim Water Service Area	Water supply; water quality	AB-HH
Smartimer rebate enhancement program	City of Anaheim	Issis Macias Sr. Water Resources Analyst 714-765-5029	Smartimer rebate enhancement up to \$120 per controller compared to the existing \$80 rebate for residential customers.	Anaheim Water Service Area	Water supply; water quality	ALL
CALTRANS water use efficiency project	City of Anaheim	Issis Macias Sr. Water Resources Analyst 714-765-5029	CALTRANS water audit and irrigation system retrofit to weather-based technology.	Anaheim Water Service Area	Water supply; water quality	ALL
Artificial turf installation in City Parkways/Medians	City of Anaheim	Issis Macias Sr. Water Resources Analyst 714-765-5029	Convert public medians and parkways to artificial turf, to reduce water use.	Anaheim Water Service Area	Water supply	ALL
Yorba Regional Park water use efficiency project	City of Anaheim	Issis Macias Sr. Water Resources Analyst 714-765-5029	Upgrade Yorba Regional Park 's irrigation system to weather-based technology.	Anaheim Water Service Area	Water supply	SAR
Anaheim Convention Center water use efficiency project	City of Anaheim	Issis Macias Sr. Water Resources Analyst 714-765-5029	Conduct a water audit and install water use efficiency devices throughout the facility and outdoors.	Anaheim Water Service Area	Water supply; water quality	AB-HH
Joint Well Field Project	City of Anaheim	Rick Shintaku Water Resources & Planning 714-765-4181	Installation of water facilities to enhance water supply reliability throughout Orange County	Anaheim Water Service Area	Water supply	ALL
Canyon Business Park Recycled Water -GWRS Service	City of Anaheim	Al Shaikh Principal Water Engineer 714-765-5268	Provide recycled water for industrial, commercial, cooling towers and landscape irrigation for proposed high tech industries..	Canyon Business Park	Water supply	SAR
Brackish Groundwater Treatment - Yorba Regional Park	City of Anaheim	Al Shaikh Principal Water Engineer 714-765-5268	Treat and distribute brackish groundwater near Yorba Regional Park for irrigation of the park and nearby landscaping in the cities of Anaheim and Yorba Linda.	Yorba Regional Park	Water supply & water quality improvement	SAR
Urban Runoff Reuse - Anaheim Hills Golf Course	City of Anaheim	Al Shaikh Principal Water Engineer 714-765-5268	Treat and reuse channel flow in the Anaheim Hills Golf Course. Currently the golf course is irrigated with MWD imported water.	Anaheim Hills Golf Course	Water supply & water quality improvement	SAR

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Turf Conversion to Artificial Turf and/or California Friendly Landscaping	City of Anaheim	Issis Macias Sr. Water Resources Analyst 714-765-5029	A water conservation rebate program, where the customer would receive a rebate of \$2.50 per square foot to convert existing turf grass to artificial turf and/or California Friendly landscaping.	Anaheim Water Service Area	Water supply	ALL
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Urban Runoff Reuse - Anaheim Hills Golf Course	City of Anaheim	Al Shaikh Principal Water Engineer 714-765-5268	Treat and reuse channel flow in the Anaheim Hills Golf Course. Currently the golf course is irrigated with MWD imported water.	Anaheim Hills Golf Course	Water supply & water quality improvement	SAR
Sewer Reconstruction at Cerritos, from Brookhurst St to Gilbert St	City of Anaheim	Khanh Chu Principal Civil Engineer 714-765-5821 KChu@anaheim.net	Reconstruction of undersized and deteriorated sewer lines.	Cerritos Ave from Brookhurst St to Gilbert St	Water Quality	Anaheim Barber East Garden Grove-Wintersburg Channel
Sewer Reconstruction at Harbor Blvd and Wilken Way	City of Anaheim	Khanh Chu Principal Civil Engineer 714-765-5821 KChu@anaheim.net	Reconstruction of undersized and deteriorated sewer lines.	Harbor Blvd and Wilken Way	Water Quality	
Sewer Reconstruction at Lincoln Ave	City of Anaheim	Khanh Chu Principal Civil Engineer 714-765-5821 KChu@anaheim.net	Reconstruction of undersized and deteriorated sewer lines.	Lincoln Ave from Magnolia Ave to Gilbert St	Water Quality	Carbon Creek
Sewer Reconstruction at Romenya Dr, Commercial St and Carl Karcher Wy	City of Anaheim	Khanh Chu Principal Civil Engineer 714-765-5821 KChu@anaheim.net	Reconstruction of undersized and deteriorated sewer lines.	Romenya Dr, Commercial St and Carl Karcher Way	Water Quality	Carbon Creek
Sewer Reconstruction at Westport Dr	City of Anaheim	Khanh Chu Principal Civil Engineer 714-765-5821 KChu@anaheim.net	Reconstruction of undersized and deteriorated sewer lines.	Westport Dr, Reseda St and South St	Water Quality	SAR
Sewer Reconstruction at Acacia St, Romneya Dr and La Palma Ave	City of Anaheim	Khanh Chu Principal Civil Engineer 714-765-5821 KChu@anaheim.net	Reconstruction of undersized and deteriorated sewer lines.	Acacia St, Romneya Dr and La Palma Ave	Water Quality	Carbon Creek
Sewer Reconstruction at Rio Vista St and Lincoln Ave	City of Anaheim	Khanh Chu Principal Civil Engineer 714-765-5821 KChu@anaheim.net	Reconstruction of undersized and deteriorated sewer lines.	Rio Vista, Lincoln Ave. and Jackson St.,	Water Quality	SAR
Brookhurst Roadway Widening	City of Anaheim	Karl Francis Principal Civil Engineer 714-765-5176	Creation of a linear park/grass swale to treat and infiltrate urban runoff and storm flows, as well as mitigate potential flooding	Brookhurst St. between Ball Rd and Katella St.	Water Quality, Groundwater Recharge and Flood Protection	AB-HH

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Phase I Storm Drain Reconstruction at UPRR and Ball Rd., Carbon Creek Channel to Knott Ave.	City of Anaheim	Khanh Chu Principal Civil Engineer 714-765-5821 KChu@anaheim.net	Reconstruction of undersized storm drain lines	West side of UPRR and at Ball Rd., Carbon Creek Channel to Knott Ave.	Address immediate public health and safety needs and strengthen the existing flood control facilities to address seismic issues. Address immediate water quality needs related to combined municipal sewer and storm water systems to prevent sewage discharge to state waters.	SGR-CC
Phase II Storm Drain Reconstruction at Ball Rd., Knott Ave. to Western Ave.	City of Anaheim	Khanh Chu Principal Civil Engineer 714-765-5821 KChu@anaheim.net	Reconstruction of undersized storm drain lines	Ball Rd. ,Knott Ave. to Western Ave.	Address immediate public health and safety needs and strengthen the existing flood control facilities to address seismic issues. Address immediate water quality needs related to combined municipal sewer and storm water systems to prevent sewage discharge to state waters.	SGR-CC
Phase III Storm Drain Reconstruction at Ball Rd., Western Ave. to Beach Blvd.	City of Anaheim	Khanh Chu Principal Civil Engineer 714-765-5821 KChu@anaheim.net	Reconstruction of undersized storm drain lines	Ball Rd., Western Ave. to Beach Blvd.	Address immediate public health and safety needs and strengthen the existing flood control facilities to address seismic issues. Address immediate water quality needs related to combined municipal sewer and storm water systems to prevent sewage discharge to state waters.	SGR-CC
Randolph Channel Improvements	City of Brea	Brian Ingallinera (714)-990-7672	Restoration of Randolph Creek to improve water quality	Randolph Street/Imperial Highway	Improve Water Quality	SGR-CC
Fairview Park Wetlands & Riparian Habitat Project	City of Costa Mesa	Robert Staples (714)754-5303	This project will create 6 acres of wetlands,9 acres of coastal sage scrub and 8 acres of native grassland and an oak woodland in a 208 acre public park.	Fairview Park	Improve Water Quality	SAR

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Industrial Way Water Quality & Storm Drain Improvement Project	City of Costa Mesa	Fariba Fazeli (714)754-5378	This project proposes the installation of a parallel underground storm drain system from Pomona and 18th Streets to Newport Boulevard within the public right of way, and construction of at least two detention basins within the project limits to encourage the natural percolation of low flow run off into the ground.	Pomona/ 18th Street	Improve Flood Protection	SAR
City-Wide Sewer System Improvements	City of Cypress	Gonzalo Vazquez (714) 229-6751	Improvements to sanitary sewer system to protect any potential sanitary sewer overflows	Cypress/City Wide	Improve Water Quality	SGR-CC AB-HH
City-Wide Storm Drain/Flood Control Improvements - Master Plan	City of Cypress	Gonzalo Vazquez (714) 229-6752	Upgrade existing storm drain facilities to prevent any potential flooding. This will include upgrading of City's pump stations.	Cypress/City Wide	Improve Flood Protection	SGR-CC AB-HH
City Wide Catch Basin Improvements	City of Cypress	Gonzalo Vazquez (714) 229-6752	Retrofitting catch basins with screens/and baskets in entire City	Cypress/City Wide	Improve Water Quality	SGR-CC AB-HH
City Wide Pervious Concrete Curb, Gutter, Cross Gutter etc. Installation	City of Cypress	Gonzalo Vazquez (714) 229-6753	Replace concrete curb, gutter and cross gutters with pervious concrete in flat low lying areas where there is inadequate flow which will allow for infiltration of the water	Cypress/City Wide	Improve Water Quality	SGR-CC AB-HH
City Wide Retrofit of Landscape Irrigation System in the Public Right-of-Way	City of Cypress	Gonzalo Vazquez (714) 229-6754	Retrofitting irrigation in the public right-of-way with upgraded irrigation system that will limit irrigation overspray and help prevent the release of fertilizers and thereby reduce any nitrogen based materials from flowing into the storm drain system	Cypress/City Wide	Improve Water Quality	SGR-CC AB-HH
Impervious On-Street Parking Areas on Designated Areas Along Arterial Streets	City of Cypress	Gonzalo Vazquez (714) 229-6755	Installation of pervious pavers or other pervious material in designated parking areas with heavy vehicle traffic and on-street parking	Cypress/City Wide	Improve Water Quality	SGR-CC AB-HH
Construction of Detention Basin at Los Alamitos Racetrack	City of Cypress	Gonzalo Vazquez (714) 229-6756	Installation of a detention basin at the Los Alamitos Racetrack for flood control and treatment purposes	Los Alamitos Racetrack	Improve Water Quality and Improve Flood Control	SGR-CC
Sediment Removal Program	City of Cypress	Gonzalo Vazquez (714) 229-6757	Sediment removal process for drainage systems before entering recharge basins	Cypress/City Wide	Protect Water Quality	SGR-CC AB-HH
Reclaimed Water Distribution System	City of Cypress	Gonzalo Vazquez (714) 229-6758	Installation of a reclaimed water project that will be used for irrigation purposes	Cypress/Los Alamitos	Improve Water Quality and Conserve Water	SGR-CC AB-HH
County of Orange/Cypress Nature Park Enhancement Project	County of Orange/Cypress	Gonzalo Vazquez (714) 229-6759	Project will entail the removal of sediment and deepening of the Cypress Detention Basin to improve infiltration and add capacity. This is in addition to the low flow pump and further enhancements that were previously submitted for consideration	Ball Rd/ W/O Denni Street	Increase capacity, infiltration, recreation, and a possible partnership with the City of La Palma	SGR-CC
Flood Protection Pump Station Upgrade	City of Fountain Valley	Matt Mogensen	Upgrade the pump station to include installation of trash gates on the catch basin inlets.		Water Quality, flood protection	
Acacia Park Native Habitat Restoration	City of Fullerton	Trung Chanh Phan (714)-738-5333	Demonstration project to remove invasive plants along Fullerton Creek in Acacia Park.	Acacia Park	Recreation, water quality, stewardship	SGR-CC

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Hillcrest Park Native Creek Restoration	City of Fullerton	Trung Chanh Phan (714)-738-5333	Removal of invasive plants along Brea Creek within Hillcrest Park to promote natural water course.	Hillcrest Park	Recreation, water quality, stewardship	SGR-CC
Street Median Retrofit	City of Garden Grove	Ana Ramirez (714)-741-5176	Remove existing landscape to allow the installation of drip irrigation system and the planting of native drought tolerant plants	Valley View St. (Santa Catalina to SR22), Euclid St. (Katella Ave. to Westminster Ave.), Brookhurst St. (Katella Ave. to Hazard St.) Harbor Blvd (Chapman Ave. to Westminster Ave.), Magnolia St. (Chapman Ave. to Westminster Ave.)	Water conservation and water quality benefits	AB-HH
Patterson St. Storm Drain Upgrade	City of Garden Grove	Mark Uphus (714)-741-5191	Reconstruct storm drain line to eliminate the collection of stagnant water	Knott St. and Patterson St.	Water quality benefits	AB-HH
Citywide Public Right of Way Turf Replacement	City of Garden Grove	Ana Ramirez (714)-741-5176	Install Cal Sense irrigation system street medians along City's major corridors	Brookhurst St., Chapman Ave., Euclid St., Valley View St., Magnolia St., and Harbor Blvd. corridors	Water conservation and water quality benefits	AB-HH
Yockey/Newland Storm drain line B-5 Phase 2 Project	City of Garden Grove	Ana Ramirez (714)-741-5176	The flood control project involves construction of a new storm drain to reduce flooding in the southwest area of the City between Newland Street and Magnolia Avenue from the Westminster Channel to Stanford	Newland Street and Magnolia Avenue	Water quality benefits	AB-HH
East Garden Grove Wintersburg Channel (EGGWC) Urban Runoff Diversion Phase I	City of Huntington Beach	Terri Elliott (714)-375-8494	Diversion of dry weather urban runoff from the EGGWC for treatment through constructed wetlands	Central Park (SEC Golden West and Talbert)	Water Quality groundwater protection	AB-HH
Heil Pump Station	City of Huntington Beach	Todd Broussard (714)-536-5247	Rebuild storm water pump station with low flow diversion to sanitary sewer	NWC Heil & Gothard	Water Quality	AB-HH
East Garden Grove Wintersburg Channel (EGGWC) Urban Runoff Diversion Phase II	City of Huntington Beach	Terri Elliott (714)-375-8494	Improve and enhance the level of urban runoff treatment and capacity of the EGGWC Urban Runoff Diversion Phase I Project.	Central Park (SEC Golden West and Talbert)	Water Quality groundwater protection	AB-HH
Esteli Park Restoration	City of La Habra	Melissa You 562-905-9607	Restore the channel adjacent to the park to improve water quality and introduce possible public education component.	2251 Brookdale Avenue, La Habra, CA	Water Quality	SGR-CC
Vista Grande Water Quality Improvements	City of La Habra	Melissa You 562-905-9607	Restoration of the creek will improve water quality, introduce a habitat for native plants, and possibly include public education to the local community on stormwater.	1100 W. Lambert Road, La Habra, CA	Water Quality	SGR-CC
La Bonita Park Well Improvements	City of La Habra	Tom Cochran/Carlo Nafarette 562-905-9792	Implement well improvements to improve water quality.	301 S. Euclid Street, La Habra, CA	Water Supply	SGR-CC

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Recycled Water Feasibility Study	City of La Habra	Tom Cochran/Carlo Nafarette 562-905-9792	Studying the treatment of wastewater to be used for recycled water	Lambert/Idaho	Water supply	SGR-CC
Hart Park Waste Treatment Plant	City of Orange	Gene Estrada	Local treatment plant to provide recycled water for Hart Park	Hart Park, Orange	Water quality, water supply	SAR
Construction of Well #27	City of Orange	Sonny Tran (714) 288-2475	Construct water production well to the depth of 1000 feet for potable uses	145 S. Water Street, Orange Ca 92866	Water supply	SAR
Tustin/Meats Intersection Widening	City of Orange	Medel Llanes	This project will widen the intersection of Tustin/Meats	Tustin/Meats Intersection		
Tustin/Chapman Intersection Widening	City of Orange	Randy Nguyen	This project will widen the intersection of Tustin/Chapman	Tustin/Chapman Intersection		
Main Street Widening	City of Orange	Medel Llanes	This project will widen Main Street from Culver Ave to 300 feet south of Chapman Ave	Main St at Culver		
Santiago Creek Bike Trail	City of Orange	Randy Nguyen	Construction of a Class I off road bike trail from Collins Ave at Santiago Creek to the Cannon Street Bridge.	Santiago Creek Park		
Catch Basin Retrofit with screens	City of Orange	Gene Estrada	Retrofit the catch basins in the entire City with screens	Citywide		SAR
Water Quality/ Disinfection	City of Westminster	Scott Miller 714-548-3693	Replacing sodium hypochlorite generation units that are reaching their expected useful life.	11 locations city wide	Water Quality	AB-HH
Water reliability	City of Westminster	Scott Miller 714-548-3693	Install emergency generator for well sites	City wide	Water Supply	AB-HH
Catch Basin Screens Installation	City of Westminster	Pete Quinn 714-548-3691	Install screens at catch basin inlets.	City wide	Water Quality	AB-HH
CMP Replacement	City of Westminster	Jake Ngo 714-548-3459	Replacement of CMP storm drains	City wide	Water Quality	AB-HH
Water runoff	City of Westminster	Scott Miller 714-548-3693	Acquisition of a Vac Truck to improve the response to service water main breaks and leaks	City wide	Water Quality	AB-HH
Waterline upgrades	City of Westminster	Scott Miller 714-548-3693	Replacement of deficient water distribution pipeline.	City wide	Water Supply	AB-HH
Trash BMP installation	City of Santa Ana		installation of trash BMPs that drain to SAR (possibly permeable paving)			SAR
Costa Mesa Trunk sewer improvements	Costa Mesa Sanitary District	Rob Hamers, District Engineer (714)293-2727	SW Costa Mesa Trunk Sewer (with OCSD) – gravity sewer along 19th Street to allow them to abandon 9 aging pump stations and alleviate the need for a Banning Ranch PS (http://www.cmsdca.gov/); potential opportunity to improve trails, must cross under SA River to OCSD Plant 2. About \$15 mill	Costa Mesa/Newport Beach	Improve water quality and enhance trail connectivity	SAR
Infiltration and Inflow Reduction Program	Costa Mesa Santary District	Rob Hamers, District Engineer (714)293-2727	To partner with the Cities of Costa Mesa and Newport Beach to improve the storm drain system and minimize the amount of flow entering the sanitary sewer system.	Costa Mesa/Newport Beach	Storm water improvements, flood protection, improve water quality, prevent SSOs	SAR
Colored Water Treatment Facility	Mesa Consolidated Water District	Bob McVicker (949) 631-1291	Design & construct an 8.64 MGD membrane treatment plant to replace the existing plant.	1350 Gisler Ave, Costa Mesa, CA	Water supply, Groundwater Recharge	SAR

NOC IRWMP
Project Matrix

Project Name	Agency	Contact Name/Phone No.	Description	Location	Benefits	Watershed
Water Conservation for NOC WMA area	MWDOC	Joe Berg	Water conservation incentives for entire NOC area	North Orange County	promoting water conservation	ALL
Wintersberg Channel Source Identification Project	OC Coastkeeper	Ray Hiemstra (714) 850-1965	identify and eliminate the significant sources of pollutants currently being discharged to the channel through enforcement actions or	North Orange County	Water Quality	SAR
Huntington Harbour Copper Reduction Project	OC Coastkeeper	Ray Hiemstra (714) 850-1965	The project will benefit water quality and the marine habitat beneficial use by reducing the overall copper load to Huntington Harbour.	Huntington Harbour	Water Quality	AB-HH
Huntington Harbour Watershed Capture and infiltration BMP Project	OC Coastkeeper	Ray Hiemstra (714) 850-1965	The project will provide benefits by addressing problems caused by increased stormwater runoff from urban development in the Huntington Harbour watershed. These problems include channel erosion and riparian and wetlands habitat degradation, property damage, sediment discharge into Huntington Harbour	North Orange County	Water Quality	AB-HH
Huntington Harbour Watershed Trash Reduction Program	OC Coastkeeper	Ray Hiemstra (714) 850-1965	This project is designed to reduce the huge amounts of trash deposited in the Wintersberg and Bolsa Channels and their tributaries that eventually washes downstream into Huntington Harbour and the Bolsa Chica and Seal Beach Wetlands.	North Orange County	Water Quality	AB-HH
Huntington Harbour Native Oyster Restoration Program	OC Coastkeeper	Ray Hiemstra (714) 850-1966	Improve water and sediment quality and habitat by restoring the native oyster population	Huntington Harbour	Water Quality	AB-HH
Orange County LID Implementation Project	OC Coastkeeper	Ray Hiemstra (714) 850-1966	Improve water quality a	North Orange County	Water Quality	ALL
Westminster Channel	OCFCD	Mike Granada	Construct ultimate improvements to convey the 100-yr storm event and remove/reduce FEMA SFHA	Hoover to Beach	flood protection	AB-HH
Westminster Channel	OCFCD	Mike Granada	Construct ultimate improvements to convey the 100-yr storm event and remove/reduce FEMA SFHA	Bolsa Chica Rd to Springdale/Edinger	flood protection	AB-HH
Westminster Channel	OCFCD	Mike Granada	Construct ultimate improvements to convey the 100-yr storm event and remove/reduce FEMA SFHA	Springdale/Edinger Ave to Bolsa Ave	flood protection	AB-HH
E.G.G.-Wintersburg Channel	OCFCD	Mike Granada	Construct ultimate improvements to convey the 100-yr storm event and remove/reduce FEMA SFHA	Tide gates to Warner	flood protection	AB-HH
E.G.G.-Wintersburg Channel	OCFCD	Mike Granada	Construct ultimate improvements to convey the 100-yr storm event and remove/reduce FEMA SFHA	Warner to Goldenwest	flood protection	AB-HH
E.G.G.-Wintersburg Channel	OCFCD	Mike Granada	Construct ultimate improvements to convey the 100-yr storm event and remove/reduce FEMA SFHA	Confluence w/C06 to Beach	flood protection	AB-HH
E.G.G.-Wintersburg Channel	OCFCD	Mike Granada	Construct ultimate improvements to convey the 100-yr storm event and remove/reduce FEMA SFHA	Beach to Woodruff	flood protection	AB-HH
E.G.G.-Wintersburg Channel	OCFCD	Mike Granada	Construct ultimate improvements to convey the 100-yr storm event and remove/reduce FEMA SFHA	Quartz to Bushard	flood protection	AB-HH
E.G.G.-Wintersburg Channel	OCFCD	Mike Granada	Construct ultimate improvements to convey the 100-yr storm event and remove/reduce FEMA SFHA	Bushard to McFadden/Brookhurst	flood protection	AB-HH

NOC IRWMP
Project Matrix

Project Name	Agency	Contact Name/Phone No.	Description	Location	Benefits	Watershed
E.G.G.-Wintersburg Channel	OCFCD	Mike Granada	Construct ultimate improvements to convey the 100-yr storm event and remove/reduce FEMA SFHA	300' d/s Haster to 800' u/s Lampson Ave	flood protection	AB-HH
E.G.G.-Wintersburg Channel	OCFCD	Mike Granada	Construct ultimate improvements to convey the 100-yr storm event and remove/reduce FEMA SFHA	Haster Retarding Basin and Pump Station	flood protection	AB-HH
Newland Storm Channel	OCFCD	Mike Granada	Construct ultimate improvements to convey the 100-yr storm event and remove/reduce FEMA SFHA	EGGW (C05) to McFadden Phase 1	flood protection	AB-HH
Newland Storm Channel	OCFCD	Mike Granada	Construct ultimate improvements to convey the 100-yr storm event and remove/reduce FEMA SFHA	McFadden to Bolsa Phase 2	flood protection	AB-HH
Edinger Storm Channel	OCFCD	Mike Granada	Construct ultimate improvements to convey the 100-yr storm event and remove/reduce FEMA SFHA	Confluence w/C05 to 1350' u/s Edinger Ave	flood protection	AB-HH
Oceanview Channel	OCFCD	Mike Granada	Construct ultimate improvements to convey the 100-yr storm event and remove/reduce FEMA SFHA	Bushard to Brookhurst	flood protection	AB-HH
Carbon Creek Channel	OCFCD	Mike Granada	Construct ultimate improvements to convey the 100-yr storm event and remove/reduce FEMA SFHA	Western to Orange (including X-ings)	flood protection	SGR-CC
Carbon Creek Channel	OCFCD	Mike Granada	Construct ultimate improvements to convey the 100-yr storm event and remove/reduce FEMA SFHA	Western/Orange to Beach Blvd	flood protection	SGR-CC
Carbon Creek Channel	OCFCD	Mike Granada	Construct ultimate improvements to convey the 100-yr storm event and remove/reduce FEMA SFHA	Beach Blvd to Dale St	flood protection	SGR-CC
Carbon Creek Channel	OCFCD	Mike Granada	Construct ultimate improvements to convey the 100-yr storm event and remove/reduce FEMA SFHA	Gilbert St to I-5 Fwy including B01P01 & B01B02	flood protection	AB-HH
Carbon Creek Channel	OCFCD	Mike Granada	Construct ultimate improvements to convey the 100-yr storm event and remove/reduce FEMA SFHA	Cypress Pump Station	flood protection	AB-HH
Fullerton Creek Channel	OCFCD	Mike Granada	Construct ultimate improvements to convey the 100-yr storm event and remove/reduce FEMA SFHA	Western Ave to Beach Blvd	flood protection	SGR-CC
Fullerton Creek Channel	OCFCD	Mike Granada	Construct ultimate improvements to convey the 100-yr storm event and remove/reduce FEMA SFHA	Beach Blvd (X-ing) to I-5 Fwy	flood protection	SGR-CC
Brea Creek Channel	OCFCD	Mike Granada	Construct ultimate improvements to convey the 100-yr storm event and remove/reduce FEMA SFHA	Bridge at Beach Blvd	flood protection	AB-HH
Southwest Costa Mesa Trunk	Orange County Sanitation District	Jim Burror (714) 593-7335 / Angie Anderson (714) 593-7305	Construction of a new regional sewer to intercept flows from abandoned pump stations by cities of Costa Mesa and Newport Beach, in order to protect water quality and reduce potential wet-weather sanitary sewer overflows in the Greenville-Banning Channel, the Santa Ana River Salt Marsh and/or Newport Slough that drains to the Pacific Ocean through tidal influx. The project will also provide for trail connectivity.	Cities of Costa Mesa, Newport Beach and Huntington Beach.	Protect Water quality and provides trail linkage/connectivity	SAR

NOC IRWMP
Project Matrix

Project Name	Agency	Contact Name/Phone No.	Description	Location	Benefits	Watershed
SAR Interceptor Realignment and Protection	Orange County Sanitation District	Jim Burror (714) 593-7335 / Angie Anderson (714) 593-7306	The Project will relocate the Santa Ana River Interceptor (SARI), a wastewater pipeline, between Prado Dam and Weir Canyon Road, out of the Santa Ana River (SAR) floodplain. The project is necessary to allow the SAR Mainstem Flood Control Project to raise Prado Dam and increase flood flow releases (up to 30,000 cfs). The SARI relocation Project will serve to avoid pipeline failure, and adverse impacts to public health, water quality, water supply, and biological resources.	Lower Santa Ana River; Cities of Yorba Linda and Anaheim	Protection of water supply, water quality, public health, and flood protection	SAR
Sludge Dewatering, Odor Control, and Primary Sludge Thickening at Plant No. 1	Orange County Sanitation District	Jim Burror (714) 593-7335 / Angie Anderson (714) 593-7305	Construction of additional solids handling capacity to manage increase solids and process up to 144 mgd of flow to improve water quality and allow for additional expansion of the Groundwater Replenishment System; the secondary treatment facilities will al	North Orange County	Water supply and groundwater recharge.	ALL
Newhope-Placentia Relief Improvements	Orange County Sanitation District	Jim Burror (714) 593-7335 / Angie Anderson (714) 593-7307	Sewer improvements to increase amount of treated flow available for the Groundwater Replenishment System through abandonment of pump station and increase capacity of pipeline; the project will also help to reduce potential sanitary sewer overflows which can impact water quality in the Fullerton and Carbon Creeks.	Cities of Fullerton and Anaheim	Water supply, and groundwater recharge. Protects Water Quality	SGR-CC
Co-generation Facilities Cooling Water System Modifications and Upgrades	Orange County Sanitation District	Jim Burror (714) 593-7335 / Angie Anderson (714) 593-7305	Offset potable water supply demands within the region by making available millions of gallons per day of reclaimed water presently used by OCSD. By replacing the single-pass cooling water systems at OCSD's plant facilities with a more efficient cooling system will increase availability of reclaimed water to OCWD through the Green Acres Project distribution water system and highly treated water for groundwater basin replenishment through the GWR System.	North Orange County; facility sites are located in Fountain Valley and Huntington Beach	Water conservation and recycling benefits	ALL
Pharmaceutical "Take Back" Program	Orange County Sanitation District	Tom Gaworski (714) 593-7457/ Angie Anderson (714) 593-7305	Implementation of a Pharmaceutical "take back" Program in partnership with Orange County Health Care to dispose of pharmaceuticals in an effort to reduce emerging constituents found in water and wastewater that may impact water quality levels for water reclamation and water supply for the Groundwater Replenishment System. The Program will also provide the State of California with a working Model Program that conforms to the requirements as outlined by SB966.	North and Central Orange County	Protection of Water Quality and Groundwater Recharge	ALL

**NOC IRWMP
Project Matrix**

Project Name	Agency	Contact Name/Phone No.	Description	Location	Benefits	Watershed
Sewer Science Program	Orange County Sanitation District	Jim Burror (714) 593-7335 / Angie Anderson (714) 593-7309	An educational program that supports the County wide Prevention Pollution Partnership Program (through its 25-member agency agreement) to educate the region on disposal of Pharmaceuticals and its potential impact on groundwater if not controlled at its source; a multilingual FOG Program (in Chinese, Korean, Spanish, and Vietnamese) to educate on prevention of SSOs; and a school program to educate students on water quality, water supply, wastewater process and water recycling.	North Orange County	Educational Program on Water Quality, Water Supply, Water Recycling	ALL
Fullerton-Brea Interceptor Sewer Relief	Orange County Sanitation District	Jim Burror (714) 593-7335 / Angie Anderson (714) 593-7311	Sewer improvement to provide sufficient sewer capacity to accommodate planned and projected increases in flow and reduce potential wet-weather sanitary sewer overflows that could drain and ultimately impact water quality in the Fullerton-Brea Creek.	Cities of Fullerton and Brea	Water Quality	SGR-CC
Regional FOG Collection Station	Orange County Sanitation District	Jim Burror (714) 593-7335 / Angie Anderson (714) 593-7312	Construct a Fats, Oil, and Grease (FOG) Collection Station to reduce clogging in the regional sewer system, that can lead to potential increases in sanitary sewer overflows and contaminate water quality in harbors, channels, wetlands and storm drain systems that lead to the Pacific Ocean. The FOG station will also serve to recycle "yellow" grease to support OCSD's central power generation facility and reduce future energy demands.	North Orange County; site of FOG station is located in Fountain Valley	Water Quality	ALL
Alamitos Barrier Improvement Project	Orange County Water District	Marsha Westropp 714-378-8249	Improve effectiveness of seawater intrusion barrier by installing new injection wells	Seal Beach	Water quality, water supply	SGR-CC
Recharge Water Sediment Removal Project	Orange County Water District	Marsha Westropp 714-378-8250	Remove sediment from Santa Ana River water before recharging in the OCWD recharge basins	Anaheim	Water quality, water supply	SAR
Five Coves and Lincoln Bypass Pipeline	Orange County Water District	Marsha Westropp 714-378-8251	Construct pipeline to allow transfer of water between existing OCWD recharge basins to increase recharge of water into the groundwater basin	OCWD recharge basins in the Cities of Anaheim and Orange (Upper and Lower Five Coves, Burris, and Lincoln Basins)	Water supply, groundwater recharge	SAR
Mid-Basin Injection Demonstration Project	Orange County Water District	Marsha Westropp 714-378-8252	Construct one injection well and two monitoring wells as a pilot project to test injection of GWR System water into the principal aquifer; site will be redeveloped as an equestrian rest area with an access ramp to the existing equestrian trail along the S	Santa Ana & Fountain Valley	Water supply, groundwater recharge, recreation	SAR
Mid-Basin Injection Project	Orange County Water District	Marsha Westropp 714-378-8252	Construct facilities to allow for GWR system water to be injected into principal aquifer.	Along Santa Ana River in Santa Ana	Water supply	SAR
Groundwater Replenishment System, Initial Expansion	Orange County Water District	Marsha Westropp 714-378-8253	Expand the existing Groundwater Replenishment System to increase capacity by up to 30 million gallons per day	Fountain Valley	Water supply, water quality, groundwater recharge	SAR

NOC IRWMP
Project Matrix

Project Name	Agency	Contact Name/Phone No.	Description	Location	Benefits	Watershed
Groundwater Replenishment System Flow Equalization	Orange County Water District	Marsha Westropp 714-378-8254	Construct tank for temporary storage of secondary-treated wastewater to equalize flows to maximize operation of GWR System	Fountain Valley	Water supply, water quality, groundwater recharge	SAR
Placentia Basin Enhancement	Orange County Water District	Marsha Westropp 714-378-8248	Construct improvements to an existing flood control basin to improve flood control operations and increase groundwater recharge	Anaheim	water supply, groundwater recharge, flood protection	SAR
Raymond Basin Enhancement	Orange County Water District	Marsha Westropp 714-378-8248	Construct improvements to an existing flood control basin to improve flood control operations and increase groundwater recharge	Anaheim	water supply, groundwater recharge, flood protection	SAR
Santiago Basins Intertie	Orange County Water District	Marsha Westropp 714-378-8248	Construct a connection between two existing recharge basins to increase operational flexibility and performance of the basins.	Orange	water supply, groundwater recharge	SAR
Santiago Basins Pump Station Rehabilitation	Orange County Water District	Marsha Westropp 714-378-8248	Construct a pump station to dewater the Santiago Basins to increase storm flow capture and storage and increase operational flexibility	Orange	water supply, groundwater recharge	SAR
Santiago Creek Enhanced Recharge	Orange County Water District	Marsha Westropp 714-378-8248	Construct a water conveyance channel through the concrete-lined channel in Hart Park to allow greater flows in the creek to increase groundwater recharge	Orange	water supply, groundwater recharge	SAR
Prado Basin Sediment Management Demonstration Project	Orange County Water District	Marsha Westropp 714-378-8248	Long term project to remove sediment in Prado Basin and deposit it below the dam to increase flood capacity behind Prado Dam and restore the flow of sediment in the lower Santa Ana River.	Prado Basin and in the Santa Ana River in Anaheim	water supply, flood protection, improvement of wildlife habitat	SAR
Prado Basin Sediment Management Project	Orange County Water District	Marsha Westropp 714-378-8258	Remove sediment in Prado Basin and deposit it below the dam to increase flood capacity behind Prado Dam and restore the flow of sediment in the lower Santa Ana River.	Prado Basin and in the Santa Ana River in Anaheim	water supply, flood protection, improvement of wildlife habitat	SAR
Enhanced Water Conservation at Prado Dam	Orange County Water District	Marsha Westropp 714-378-8248	Modify the operation of Prado Dam to allow for storage of water behind the dam to elevation of 505 feet year-round.	Prado Dam in Riverside	water supply, water quality	SAR
Recharge Basin Rehabilitation Project	Orange County Water District	Marsha Westropp 714-378-8248	Implement a program to remove fine-grained sediment layer from recharge basins to improve groundwater recharge	OCWD recharge basins in the Cities of Anaheim and Orange	water supply, groundwater recharge	SAR
Subsurface Recharge Demonstration Project	Orange County Water District	Marsha Westropp 714-378-8248	Construct subsurface recharge galleries to recharge GWR System water and/or pretreated Santa Ana River water	Anaheim and Orange	water supply, water quality	SAR
Fletcher Basin Rehabilitation	Orange County Water District	Marsha Westropp 714-378-8248	Convert an unused flood control basin into a recharge basin	Orange	water supply, flood protection	SAR
Sunset Gap Seawater Intrusion Investigation	Orange County Water District	Marsha Westropp 714-378-8248	Construct monitoring wells to investigate the extent of seawater intrusion that has already closed one municipal production well	Seal Beach and Huntington Beach	water supply protection, water quality	SAR
North Basin Groundwater Protection Project	Orange County Water District	Marsha Westropp 714-378-8248	Construct groundwater remediation system, including wells to remove groundwater contaminated with volatile organic compounds and contain movement of contaminated groundwater, facilities to treat the water, and reinject purified water back into the aquifer	Anaheim and Fullerton	water quality	SAR
Miraloma Recharge Basin	Orange County Water District	Marsha Westropp 714-378-8248	Construct surface water recharge basin on 13-acre site.	Anaheim	water supply, water quality	SAR

**NOC IRWMP
Project Matrix**

Project Name	Agency	Contact Name/Phone No.	Description	Location	Benefits	Watershed
Orange County Regional Stormwater Infiltration Program	Orange County Water District	Marsha Westropp 714-378-8248			water supply, water quality	ALL
Recharge Water Sediment Removal Demonstration Project	Orange County Water District	Marsha Westropp 714-378-8248	Demonstration project to remove sediment from Santa Ana River water before recharging in the OCWD recharge basins.	Anaheim	water quality, groundwater recharge, water supply	SAR
MTBE Interim Remediation Program	Orange County Water District	Marsha Westropp 714-378-8248	Investigate the extent of MTBE contamination in the Orange County groundwater basin and develop and implement an interim program to remediate contaminated groundwater	Orange County	water quality, groundwater recharge, water supply	all
Hydrologic model of lower SGR watershed	SSCCWRP	Steve Weisberg	Lower section of San Gabriel River needs to be studied in greater detail	Willow to Seal Beach Blvd	predict the impact of IRWMP projects on beach use at Seal Beach	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 24" RCP Storm Drain	Sta. 3+84 (Down) to Ocean Avenue (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 18" RCP Storm Drain	Sta. 4+87 (Down) to Alley W of Ocean Avenue (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 18" RCP Storm Drain	Sta. 5+55 (Down) to Marine Avenue (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 24" RCP Storm Drain	Sta. 8+73 (Down) to Dolphin Avenue (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 24" RCP Storm Drain	Sta 10+08 (Down) to Alley W of Dolphin Avenue (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 24" RCP Storm Drain	Sta. 14+38 (Down) to 13th Street (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 18" RCP Storm Drain	Sta. 15+81(Down) to Alley W of 13th Street (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 24" RCP Storm Drain	Sta. 2+01.6 (Down) to 17th Street (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 30" RCP Storm Drain	SD (Down) to 16th Street (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 66" RCP Storm Drain	Seal Beach Blvd (Down) to 15th Street (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 66" RCP Storm Drain	15th Street(Down) to 14th Street (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 66" RCP Storm Drain	14th Street (Down) to 13th Street (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 66" RCP Storm Drain	13th Street (Down) to 12th Street (Up)	Stormwater improvements and flood protection	SGR-CC

**NOC IRWMP
Project Matrix**

Project Name	Agency	Contact Name/Phone No.	Description	Location	Benefits	Watershed
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 66" RCP Storm Drain	Electric (North) (Down) to Electric (South) (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 48" RCP Storm Drain	Electric (South) Crossing	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 48" RCP Storm Drain	Electric (South) (Down) to Central Avenue (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 36" RCP Storm Drain	12th Street (Down) to 11th Street (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 30" RCP Storm Drain	11th Street (Down) to 10th Street (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 36" RCP Storm Drain	Proposed 66" SD, Sta. 18+02.98 (Down) to 15th Street (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 36" RCP Storm Drain	Proposed 66" SD, Sta. 20+60.7(Down) to 14th Street (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 36" RCP Storm Drain	Proposed 66" SD (Down) to 13th Street (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 42" RCP Storm Drain	Proposed 66" SD (Down) to 12th Street (North) (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 24" RCP Storm Drain	Proposed 66" SD (Down) to East of 11th Street (Up)	Stormwater improvements and flood protection	SGR-CC
Seal Beach Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Replacement 84" RCP or Parallel 66" RCP Storm Drain	Electric Avenue (Down) to Pacific Coast Highway (Up)	Stormwater improvements and flood protection	SGR-CC
Seal Beach Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 78" RCP Storm Drain	Seal Beach Blvd (Down) to Balboa Drive (Up)	Stormwater improvements and flood protection	SGR-CC
Seal Beach Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Replacement 72" RCP or Parallel 60" RCP Storm Drain	Pacific Coast Highway (Down) to Marlin Avenue (Up)	Stormwater improvements and flood protection	SGR-CC
Seal Beach Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Replacement 66" RCP or Parallel 48" RCP Storm Drain	Marlin Avenue (Down) to Bolsa Avenue (Up)	Stormwater improvements and flood protection	SGR-CC
Pacific Coast Highway Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 36" RCP Storm Drain	Balboa Drive (Down) to Main Street (Up)	Stormwater improvements and flood protection	SGR-CC
Pacific Coast Highway Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 30" RCP Storm Drain	Pacific Coast Highway (Down) to Coastline Drive (Up)	Stormwater improvements and flood protection	SGR-CC

NOC IRWMP
Project Matrix

Project Name	Agency	Contact Name/Phone No.	Description	Location	Benefits	Watershed
Bolsa Ave, Bayside Dr, & Harbor Wy Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 66" RCP Storm Drain	Balboa Drive (Down) to E of South Shore Dr (Up)	Stormwater improvements and flood protection	SGR-CC
Bolsa Ave, Bayside Dr, & Harbor Wy Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 60" RCP Storm Drain	E of South Shore Dr.(Down) to E of Sand Piper Dr. (Up)	Stormwater improvements and flood protection	SGR-CC
Bolsa Ave, Bayside Dr, & Harbor Wy Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 54" RCP Storm Drain	E of Sand Piper Dr. (Down) to E of Beach Comber Dr. (Up)	Stormwater improvements and flood protection	SGR-CC
Bolsa Ave, Bayside Dr, & Harbor Wy Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 48" RCP Storm Drain	E of Beach Comber Dr. (Down) to E of Sea Breeze Dr. (Up)	Stormwater improvements and flood protection	SGR-CC
Bolsa Ave, Bayside Dr, & Harbor Wy Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 42" RCP Storm Drain	E of Sea Breeze Dr. (Down) to Bay Side Dr. (Up)	Stormwater improvements and flood protection	SGR-CC
Bolsa Ave, Bayside Dr, & Harbor Wy Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 42" RCP Storm Drain	Bolsa Avenue (Down) to Harbor Way (Up)	Stormwater improvements and flood protection	SGR-CC
Bolsa Ave, Bayside Dr, & Harbor Wy Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 30" RCP Storm Drain	Bay Side Drive (Down) to Toward North (Up)	Stormwater improvements and flood protection	SGR-CC
Marlin Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 48" RCP Storm Drain	Balboa Drive (Down) to Marble Cove Way (Up)	Stormwater improvements and flood protection	SGR-CC
Marlin Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 48" RCP Storm Drain	Marble Cove Way(Down) to Riviera Drive (Up)	Stormwater improvements and flood protection	SGR-CC
Marlin Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 42" RCP Storm Drain	Riviera Drive (Down) to W of Beryl Cove Way (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Existing Double 6'(W)x3.25'(H) RCB Storm Drain	West End Pump Station (Down) to North R/W of First Street (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Existing Double 6'(W)x5'(H) RCB Storm Drain	North R/W of First Street (Down) to South R/W of First Street (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Existing Double 6'(W)x3'(H) RCB Storm Drain	South R/W of First Street (Down) to Corsair Way (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Double 8'(W)x4.25(H) RCB Storm Drain	Corsair Way (Down) to Alley btwn Corsair Wy and Galleon Wy (Up)	Stormwater improvements and flood protection	SGR-CC

**NOC IRWMP
Project Matrix**

Project Name	Agency	Contact Name/Phone No.	Description	Location	Benefits	Watershed
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Double 8'(W)x4.25(H) RCB Storm Drain	Alley btwn Corsair Wy and Galleon Wy (Down) to Galleon Way (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Double 8'(W)x4.25(H) RCB Storm Drain	Galleon Way (Down) to Fifth Street (West R/W) (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Double 8'(W)x4.25(H) RCB Storm Drain	Fifth Street (West R/W) (Down) to Fifth Street (East R/W) (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Double 8'(W)x4.25(H) RCB Storm Drain	Fifth Street (East R/W) (Down) to Marina Drive (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Existing 36" RCP and 30" RCP Storm Drain	Electric Avenue (Down) to Pacific Coast Highway (South R/W) (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Existing 4'(W)x1'(H) RCB Storm Drain	Pacific Coast Highway (South R/W) (Down) to Pacific Coast Highway (North R/W) (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Existing 5'(W)x2'(H) RCB Storm Drain	Pacific Coast Highway (North R/W) (Down) to Coastline Dr E of Driftwood Ave (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Double 5.25'(W)x4.25'(H) RCB Storm Drain	Proposed Pump Station on Oakwood Apts. Property (Down) to Corsair Way (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 24" RCP Storm Drain	South R/W of First Street	Stormwater improvements and flood protection	SGR-CC
Fifth Street and Coastline Drive Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 51" RCP Storm Drain	Electric Avenue (Down) to South of PCH (Up)	Stormwater improvements and flood protection	SGR-CC
Fifth Street and Coastline Drive Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 48" RCP Storm Drain	South of PCH (Down) to PCH (Up)	Stormwater improvements and flood protection	SGR-CC
Fifth Street and Coastline Drive Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 48" RCP Storm Drain	PCH (Down) to Coastline Drive (Up)	Stormwater improvements and flood protection	SGR-CC
Fifth Street and Coastline Drive Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 48" RCP Storm Drain	5th Street (Down) to Marvista Avenue (Up)	Stormwater improvements and flood protection	SGR-CC

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Project Name	Agency	Contact Name/Phone No.	Description	Location	Benefits	Watershed
Fifth Street and Coastline Drive Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 36" RCP Storm Drain	Marvista Avenue (Down) to Driftwood Avenue (Up)	Stormwater improvements and flood protection	SGR-CC
Fifth Street and Coastline Drive Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 36" RCP Storm Drain	5th Street (Down) to Catalina Avenue (Up)	Stormwater improvements and flood protection	SGR-CC
Fifth Street and Coastline Drive Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 36" RCP Storm Drain	Coastline Drive (Down) to Toward North (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue-Main Street Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Double 8'(W)x4.25'(H) RCB Storm Drain	Marina Drive(Down) to 6th Street (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue-Main Street Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Double 8'(W)x3.5'(H) RCB Storm Drain	6th Street (Down) to 7th Street (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue-Main Street Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 42" RCP Storm Drain	7th Street(Down) to 8th Street (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue-Main Street Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 24" RCP Storm Drain	8th Street (Down) to Main Street (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue-Main Street Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 24" RCP Storm Drain	Electric Avenue (North) (Down) to 6th Street (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue-Main Street Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 36" RCP Storm Drain	Electric Avenue (North) (Down) to 7th Street (Up)	Stormwater improvements and flood protection	SGR-CC
Electric Avenue-Main Street Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 36" RCP Storm Drain	Electric Avenue (North) (Down) to 8th Street (Up)	Stormwater improvements and flood protection	SGR-CC
Marina Dr and Pacific Coast Hwy Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 48" RCP Storm Drain	Electric Avenue (Down) to 7th Street (Up)	Stormwater improvements and flood protection	SGR-CC
Marina Dr and Pacific Coast Hwy Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 42" RCP Storm Drain	7th Street (Down) to Pacific Coast Highway (Up)	Stormwater improvements and flood protection	SGR-CC
Marina Dr and Pacific Coast Hwy Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 42" RCP Storm Drain	Marina Drive(Down) to 8th Street (Up)	Stormwater improvements and flood protection	SGR-CC
Marina Dr and Pacific Coast Hwy Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 36" RCP Storm Drain	8th Street(Down) to Main Street (Up)	Stormwater improvements and flood protection	SGR-CC
Marina Dr and Central Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 42" RCP Storm Drain	San Gabriel River(Down) to Proposed Pump Station (Up)	Stormwater improvements and flood protection	SGR-CC
Marina Dr and Central Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 5.5'(W)x2.5'(H) RCB Storm Drain	Proposed Pump Station(Down) to 2nd Street (Up)	Stormwater improvements and flood protection	SGR-CC

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Project Matrix

Project Name	Agency	Contact Name/Phone No.	Description	Location	Benefits	Watershed
Marina Dr and Central Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 5'(W)x2'(H) RCB Storm Drain	2nd Street(Down) to 4th Street (Up)	Stormwater improvements and flood protection	SGR-CC
Marina Dr and Central Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 5'(W)x2'(H) RCB Storm Drain	Marina Drive(Down) to 4th Street (Up)	Stormwater improvements and flood protection	SGR-CC
Seal Beach Boulevard Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 7.5'(W)x3'(H) RCB Storm Drain	Anaheim Bay(Down) to Station 8+66.5 (Up)	Stormwater improvements and flood protection	SGR-CC
Seal Beach Boulevard Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 7.5'(W)x3'(H) RCB Storm Drain	Station 8+66.5(Down) to 7+09.5 (Up)	Stormwater improvements and flood protection	SGR-CC
Seal Beach Boulevard Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 7.5'(W)x3'(H) RCB Storm Drain	Station 7+09.5(Down) to Station 6+48.5 (Up)	Stormwater improvements and flood protection	SGR-CC
Seal Beach Boulevard Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 7.5'(W)x3'(H) RCB Storm Drain	Station 6+48.5(Down) to Station 5+30.5 (Up)	Stormwater improvements and flood protection	SGR-CC
Seal Beach Boulevard Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 7.5'(W)x3'(H) RCB Storm Drain	Station 5+30,5(Down) to Pacific Coast Hwy (Up)	Stormwater improvements and flood protection	SGR-CC
Seal Beach Boulevard Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 42" RCP Storm Drain	Pacific Coast Hwy(Down) to N of Marlin Ave (Up)	Stormwater improvements and flood protection	SGR-CC
Seal Beach Boulevard Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 24" RCP Storm Drain	N of Marlin Ave(Down) to Bolsa Ave (Up)	Stormwater improvements and flood protection	SGR-CC
Almond Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 6'(W)x3'(H) RCB Storm Drain	Bolsa Chica Channel(Down) to Wisteria Street (Up)	Stormwater improvements and flood protection	SGR-CC
Almond Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 42" RCP Storm Drain	Wisteria Street(Down) to Violet Street (Up)	Stormwater improvements and flood protection	SGR-CC
Almond Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 36" RCP Storm Drain	Violet Street(Down) to E of Teaberry Circle (Up)	Stormwater improvements and flood protection	SGR-CC
Almond Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 30" RCP Storm Drain	E of Teaberry Circle(Down) to E of Sunflower Circle (Up)	Stormwater improvements and flood protection	SGR-CC
Almond Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 30" RCP Storm Drain	175' N of San Diego Fwy(Down) to Candleberry Ave (Up)	Stormwater improvements and flood protection	SGR-CC
Fir Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 48" RCP Storm Drain	Bolsa Chica Channel(Down) to Wisteria St. E of catch basin (Up)	Stormwater improvements and flood protection	SGR-CC
Fir Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 3'(W)x2'(H) RCB Storm Drain	Fir Ave(Down) to Hazelnut Ave(Up)	Stormwater improvements and flood protection	SGR-CC

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Project Matrix**

Project Name	Agency	Contact Name/Phone No.	Description	Location	Benefits	Watershed
Fir Avenue Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 2.5'(W)x1.5'(H) RCB Storm Drain	Hazelnut Ave(Down) to Ironwood Ave(Up)	Stormwater improvements and flood protection	SGR-CC
Guava, Hazelwood, & Fir Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Double 6'(W)x3'(H) RCB Storm Drain	Old Ranch Golf Course(Down) to Lampson Ave R/W (S) (Up)	Stormwater improvements and flood protection	SGR-CC
Guava, Hazelwood, & Fir Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 6'(W)x3'(H) RCB Storm Drain	Lampson Ave R/W (S)(Down) to Ironwood Ave R/W (N) (Up)	Stormwater improvements and flood protection	SGR-CC
Guava, Hazelwood, & Fir Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Double 6'(W)x2'-3"(H) RCB Storm Drain	Ironwood Ave R/W (N)(Down) to Hazelnut Ave (Up)	Stormwater improvements and flood protection	SGR-CC
Guava, Hazelwood, & Fir Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Double 6'(W)x2'-3"(H) RCB Storm Drain	Guava Ave(Down) to Heather St (Up)	Stormwater improvements and flood protection	SGR-CC
Guava, Hazelwood, & Fir Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 8'(W)x2'-3"(H) RCB Storm Drain	Heather St(Down) to Iris St (Up)	Stormwater improvements and flood protection	SGR-CC
Guava, Hazelwood, & Fir Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 6'(W)x2'-3"(H) RCB Storm Drain	Iris St(Down) to E of Iris St (Up)	Stormwater improvements and flood protection	SGR-CC
Guava, Hazelwood, & Fir Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 5'(W)x2'-3"(H) RCB Storm Drain	E of Iris St(Down) to Rose St (Up)	Stormwater improvements and flood protection	SGR-CC
Guava, Hazelwood, & Fir Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 30" RCP Storm Drain	Hazelnut Ave(Down) to Fir Ave (Up)	Stormwater improvements and flood protection	SGR-CC
Guava, Hazelwood, & Fir Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 30" RCP Storm Drain	Rose St(Down) to Sunflower St (Up)	Stormwater improvements and flood protection	SGR-CC
Guava, Hazelwood, & Fir Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 30" RCP Storm Drain	Fir Ave(Down) to Sunflower St toward N (Up)	Stormwater improvements and flood protection	SGR-CC
Guava, Hazelwood, & Fir Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 5'(W)x2'(H) RCB Storm Drain	Ironwood Ave R/W (N)(Down) to Fir Ave. E of Ironwood Ave	Stormwater improvements and flood protection	SGR-CC
Guava, Hazelwood, & Fir Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 4.5'(W)x2'(H) RCB Storm Drain	E of Ironwood Ave(Down) to W of Daisy Circle (Up)	Stormwater improvements and flood protection	SGR-CC
Guava, Hazelwood, & Fir Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 4'(W)x2'(H) RCB Storm Drain	W of Daisy Circle(Down) to Daisy Circle (Up)	Stormwater improvements and flood protection	SGR-CC
Elder Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Double 6'(W)x3'(H) RCB Storm Drain	Old Ranch Golf Course(Down) to Lampson Ave R/W (S) (Up)	Stormwater improvements and flood protection	SGR-CC

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Project Matrix

Project Name	Agency	Contact Name/Phone No.	Description	Location	Benefits	Watershed
Elder Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 6'(W)x3'(H) RCB Storm Drain	Lampson Ave R/W (S)(Down) to Ironwood Ave R/W (N) (Up)	Stormwater improvements and flood protection	SGR-CC
Elder Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Double 6'(W)x2'-3"(H) RCB Storm Drain	Ironwood Ave R/W (N)(Down) to Fuchsia St (Up)	Stormwater improvements and flood protection	SGR-CC
Elder Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 8'(W)x2'-3"(H) RCB Storm Drain	Fuchsia St(Down) to Heather St (Up)	Stormwater improvements and flood protection	SGR-CC
Elder Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 6'(W)x2'-3"(H) RCB Storm Drain	Heather St(Down) to W of Oleander St (Up)	Stormwater improvements and flood protection	SGR-CC
Elder Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 36" RCP Storm Drain	W of Oleander St(Down) to Oleander St (Up)	Stormwater improvements and flood protection	SGR-CC
Elder Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 36" RCP Storm Drain	Elder Ave(Down) to Dogwood Ave (Up)	Stormwater improvements and flood protection	SGR-CC
Elder Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 36" RCP Storm Drain	Oleander St(Down) to Primrose St (Up)	Stormwater improvements and flood protection	SGR-CC
Candleberry Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Double 5'(W)x3'(H) RCB Storm Drain	Lampson Ave North R/W(Down) to Aster St Junction Structure (Up)	Stormwater improvements and flood protection	SGR-CC
Candleberry Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 10'-8"(W)x3'(H) RCB Storm Drain	Aster St Junction Structure	Stormwater improvements and flood protection	SGR-CC
Candleberry Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 10'-8"(W)x3'(H) RCB Storm Drain	Aster St Junction Structure(Down) to Fuchsia St (Up)	Stormwater improvements and flood protection	SGR-CC
Candleberry Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 5'(W)x3'(H) RCB Storm Drain	Candleberry Ave(Down) to Birchwood Ave(Up)	Stormwater improvements and flood protection	SGR-CC
Candleberry Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 5'(W)x3'(H) RCB Storm Drain	Fuchsia St(Down) to E of Fuchsia St (Up)	Stormwater improvements and flood protection	SGR-CC
Candleberry Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 4'(W)x3'(H) RCB Storm Drain	E of Fuchsia St(Down) to W of Marigold St (Up)	Stormwater improvements and flood protection	SGR-CC
Candleberry Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 36" RCP Storm Drain	W of Marigold St(Down) to Oleander St (Up)	Stormwater improvements and flood protection	SGR-CC
Candleberry Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Double 27" RCP Storm Drain	20+74(Down) to CB on S. Curb Face (Up)	Stormwater improvements and flood protection	SGR-CC

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Project Matrix**

Project Name	Agency	Contact Name/Phone No.	Description	Location	Benefits	Watershed
Candleberry Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Double 24" RCP Storm Drain	At Main Line Sta. 21+35(Down) to CB on S. Curb Face (Up)	Stormwater improvements and flood protection	SGR-CC
Candleberry Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 7'(W)x2'-3"(H) RCB Storm Drain	Aster St Junction Structure(Down) to E of Birchwood Ave (Up)	Stormwater improvements and flood protection	SGR-CC
Candleberry Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 7'(W)x2'-3"(H) RCB Storm Drain	50204(Down) to Birchwood Ave (Up)	Stormwater improvements and flood protection	SGR-CC
Candleberry Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 7'(W)x2'-3"(H) RCB Storm Drain	Aster St(Down) to Bluebell St (Up)	Stormwater improvements and flood protection	SGR-CC
Candleberry Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 6'(W)x2'-3"(H) RCB Storm Drain	Bluebell St(Down) to Daisy Circle (Up)	Stormwater improvements and flood protection	SGR-CC
Candleberry Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 36" RCP Storm Drain	Birchwood Ave(Down) to Almond Ave (Up)	Stormwater improvements and flood protection	SGR-CC
Candleberry Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 36" RCP Storm Drain	Daisy Circle(Down) to E of Goldenrod Circle (Up)	Stormwater improvements and flood protection	SGR-CC
Basswood Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 9'(W)x2'-9"(H) RCB Storm Drain	Old Ranch Golf Course(Down) to Lampson Ave (west) (Up)	Stormwater improvements and flood protection	SGR-CC
Basswood Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 9'(W)x2'-9"(H) RCB Storm Drain	(west)(Down) to Lampson Ave (east) (Up)	Stormwater improvements and flood protection	SGR-CC
Basswood Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 9'(W)x2'-9"(H) RCB Storm Drain	(east)(Down) to Aster St (Up)	Stormwater improvements and flood protection	SGR-CC
Basswood Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 7'(W)x2'-9"(H) RCB Storm Drain	Basswood Ave(Down) to Almond Ave (Up)	Stormwater improvements and flood protection	SGR-CC
Basswood Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 6'6"(W)x2'-9"(H) RCB Storm Drain	Aster St(Down) to W of Camelia St (Up)	Stormwater improvements and flood protection	SGR-CC
Basswood Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 6'(W)x2'-9"(H) RCB Storm Drain	W of Camelia St(Down) to Carnation Circle (Up)	Stormwater improvements and flood protection	SGR-CC
Basswood Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 4'(W)x2'-9"(H) RCB Storm Drain	Carnation Circle(Down) to Clover Circle (Up)	Stormwater improvements and flood protection	SGR-CC
Aster, Candleberry, & Ironwood Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 90" RCP Storm Drain	Proposed Pump Station (Down) to Birchwood Ave (Up)	Stormwater improvements and flood protection	SGR-CC
Aster, Candleberry, & Ironwood Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 84" RCP Storm Drain	Birchwood Ave(Down) to Candleberry Ave (Up)	Stormwater improvements and flood protection	SGR-CC

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Project Name	Agency	Contact Name/Phone No.	Description	Location	Benefits	Watershed
Aster, Candleberry, & Ironwood Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 72" RCP Storm Drain	Aster St(Down) to Ironwood Ave (Up)	Stormwater improvements and flood protection	SGR-CC
Aster, Candleberry, & Ironwood Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 72" RCP Storm Drain	Candleberry Ave(Down) to Elder Ave (Up)	Stormwater improvements and flood protection	SGR-CC
Aster, Candleberry, & Ironwood Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 60" RCP Storm Drain	Elder Ave(Down) to Guava Ave (Up)	Stormwater improvements and flood protection	SGR-CC
Aster, Candleberry, & Ironwood Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 2-54" RCP Storm Drain	Old Ranch Golf Course(Down) to Aster St (Up)	Stormwater improvements and flood protection	SGR-CC
Guava, Hazelwood, & Fir Ave Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 36" RCP Storm Drain	Ironwood Ave(Down) to W of Daisy Circle (Up)	Stormwater improvements and flood protection	SGR-CC
Basswood Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 42" RCP Storm Drain	Proposed Pump Station(Down) to Almond Ave (Up)	Stormwater improvements and flood protection	SGR-CC
Basswood Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 42" RCP Storm Drain	Aster St (Down) to W of Camelia St (Up)	Stormwater improvements and flood protection	SGR-CC
Lampson Avenue Storm Drain	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 24" RCP Storm Drain	Cal Trans Open Channel(Down) to Lampson Ave (Up)	Stormwater improvements and flood protection	SGR-CC
Harvard Lane, Stanford Lane, College Park Drive, & Yale Lane Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Extend 18" RCP Storm Drain	College Park Drive(Down) to Dartmouth Cir (Up)	Stormwater improvements and flood protection	SGR-CC
Harvard Lane, Stanford Lane, College Park Drive, & Yale Lane Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 30" RCP Storm Drain	College Park Drive(down) to Extend in Stanford Lane (Up)	Stormwater improvements and flood protection	SGR-CC
Harvard Lane, Stanford Lane, College Park Drive, & Yale Lane Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 36" RCP Storm Drain	Stanford Lane(Down) to Yale Lane (Up)	Stormwater improvements and flood protection	SGR-CC
Harvard Lane, Stanford Lane, College Park Drive, & Yale Lane Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 24" RCP Storm Drain	Yale Lane(Down) to N of Yale Lane (Up)	Stormwater improvements and flood protection	SGR-CC
Harvard Lane, Stanford Lane, College Park Drive, & Yale Lane Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 24" RCP Storm Drain	College Park Drive(Down) to Extend on Yale Lane (Up)	Stormwater improvements and flood protection	SGR-CC
Harvard Lane, Stanford Lane, College Park Drive, & Yale Lane Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 24" RCP Storm Drain	College Park Drive(Down) to Extend on Harvard Lane (Up)	Stormwater improvements and flood protection	SGR-CC

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Project Matrix

Project Name	Agency	Contact Name/Phone No.	Description	Location	Benefits	Watershed
Seal Beach Boulevard Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Existing 6'(W)x6'(H) RCB Storm Drain	Bixby Storm Channel(Down) to Lampson Ave (Up)	Stormwater improvements and flood protection	SGR-CC
Seal Beach Boulevard Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct Existing 54" RCP Storm Drain	Lampson Ave(Down) to S of Rossmoor Center Wy (Up)	Stormwater improvements and flood protection	SGR-CC
Seal Beach Boulevard Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 60" RCP Storm Drain	S of Rossmoor Center Wy(Down) to Rossmoor Center Wy (Up)	Stormwater improvements and flood protection	SGR-CC
Seal Beach Boulevard Storm Drains	Seal Beach	Michael Ho/(562) 431-2527 x1322	Construct 60" RCP Storm Drain	Bixby Storm Channel(Down) to Rossmoor Center Wy (Up)	Stormwater improvements and flood protection	SGR-CC