

AGENDA
SAN ELIJO JOINT POWERS AUTHORITY
MONDAY MARCH 9, 2015 AT 9:00 AM
SAN ELIJO WATER RECLAMATION FACILITY – CONFERENCE ROOM
2695 MANCHESTER AVENUE
CARDIFF BY THE SEA, CALIFORNIA

1. CALL TO ORDER
2. ROLL CALL
3. PLEDGE OF ALLEGIANCE
4. ORAL COMMUNICATIONS (NON-ACTION ITEM)
5. PRESENTATION OF AWARDS
 - John Boyle, 10 Years of Service
6. * **CONSENT CALENDAR**
7. * APPROVAL OF MINUTES FOR THE FEBRUARY 9, 2015 MEETING
8. * APPROVAL FOR PAYMENT OF WARRANTS AND MONTHLY INVESTMENT REPORTS
9. * SAN ELIJO WATER RECLAMATION FACILITY TREATED EFFLUENT FLOWS – MONTHLY REPORT
10. * SAN ELIJO JOINT POWERS AUTHORITY RECYCLED WATER PROGRAM – MONTHLY REPORT
11. * ITEMS REMOVED FROM CONSENT CALENDAR

Items on the Consent Calendar are routine matters and there will be no discussion unless an item is removed from the Consent Calendar. Items removed by a "Request to Speak" form from the public will be handled immediately following adoption of the Consent Calendar. Items removed by a Board Member will be handled as directed by the Board.

REGULAR AGENDA

12. **MEMORANDUM OF UNDERSTANDING (MOU) BETWEEN THE SAN ELIJO JOINT POWERS AUTHORITY AND THE CITY OF DEL MAR FOR PUMP STATION OPERATION AND MAINTENANCE SERVICES**

1. Authorize the General Manager to execute a Memorandum of Understanding between the SEJPA and the City of Del Mar for Pump Station Operation and Maintenance Services;
2. Discuss and take action as appropriate.

Staff Reference: General Manager

13. **JOINT POTABLE REUSE CONCEPT STUDY WITH SANTA FE IRRIGATION DISTRICT AND SAN DIEGUITO WATER DISTRICT**

1. Authorize the General Manager to execute the Cost Sharing Agreement with San Dieguito Water District and Santa Fe Irrigation District to jointly fund an Advanced Water Purification Concept Study for an amount not to exceed \$40,000; and
2. Discuss and take action as appropriate.

Staff Reference: General Manager

14. **CONSIDER APPROVAL OF PRELIMINARY DESIGN FOR RECYCLED WATER PIPELINES**

1. Authorize the General Manager to execute an agreement with Kennedy/Jenks Consultants for an amount not to exceed \$52,970; and
2. Discuss and take action as appropriate.

Staff Reference: General Manager

15. **VILLAGE PARK RECYCLED WATER PROJECT UPDATE**

1. Discuss and take action as appropriate.

Staff Reference: General Manager

16. **GENERAL MANAGER'S REPORT**

Informational report by the General Manager on items not requiring Board action.

17. GENERAL COUNSEL'S REPORT

Informational report by the General Counsel on items not requiring Board action.

18. BOARD MEMBER COMMENTS

This item is placed on the agenda to allow individual Board Members to briefly convey information to the Board or public, or to request staff to place a matter on a future agenda and/or report back on any matter. There is no discussion or action taken on comments by Board Members.

19. CLOSED SESSION

None

A closed session may be held at any time during this meeting of the San Elijo Joint Powers Authority for the purposes of discussing potential or pending litigation or other appropriate matters pursuant to the "Ralph M. Brown Act".

20. ADJOURNMENT

The next regularly scheduled San Elijo Joint Powers Authority Board Meeting will be Monday, April 13, 2015 at 9:00 a.m.

NOTICE:

The San Elijo Joint Powers Authority's open and public meetings meet the protections and prohibitions contained in Section 202 of the Americans With Disabilities Act of 1990 (42 U.S.C Section 12132), and the federal rules and regulations adopted in implementation thereof. Any person with a disability who requires a modification or accommodation, including auxiliary aids or services, in order to participate in a public meeting of the SEJPA Board of Directors may request such modification or accommodation from Michael T. Thornton, General Manager, (760) 753-6203 ext. 72.

The agenda package and materials related to an agenda item submitted after the packet's distribution to the Board is available for public review in the lobby of the SEJPA Administrative Office during normal business hours. Agendas and minutes are available at www.sejpa.org. The SEJPA Board meetings are held on the second Monday of the month, except August.

AFFIDAVIT OF POSTING

I, Michael T. Thornton, Secretary of the San Elijo Joint Powers Authority, hereby certify that I posted, or have caused to be posted, a copy of the foregoing agenda in the following locations:

San Elijo Water Reclamation Facility, 2695 Manchester Avenue, Cardiff, California
City of Encinitas, 505 South Vulcan Avenue, Encinitas, California
City of Solana Beach, 635 South Highway 101, Solana Beach, California

The notice was posted at least 72 hours prior to the meeting, in accordance with Government Code Section 54954.2(a).

Date: March 4, 2015



Michael T. Thornton, P.E.
Secretary / General Manager

SAN ELIJO JOINT POWERS AUTHORITY
MINUTES OF THE BOARD MEETING
HELD ON FEBRUARY 9, 2015
AT THE
SAN ELIJO WATER RECLAMATION FACILITY

David Zito, Chair

Catherine S. Blakespear, Vice Chair

A meeting of the Board of Directors of the San Elijo Joint Powers Authority (SEJPA) was held Monday, February 9, 2015, at 9:00 a.m., at the San Elijo Water Reclamation Facility at 2695 Manchester Avenue, Cardiff by the Sea, California.

1. CALL TO ORDER

Chair Zito called the meeting to order at 9:00 a.m.

2. ROLL CALL

Directors Present:

Catherine S. Blakespear
Ginger Marshall
David Zito
David Ott (Solana Beach Alternate)

Directors Absent:

Mark Muir

Others Present:

General Manager
Director of Operations
Director of Finance & Administration
Accounting Technician
Administrative Assistant/Board Clerk

Michael Thornton
Christopher Trees
Paul Kinkel
Carrie Cook
Jennifer Basco

SEJPA Counsel:

Procopio, Cory, Hargreaves & Savitch

Greg Moser
David Powell

City of Encinitas:

Senior Management Analyst/Project Manager Bryce Wilson

City of Solana Beach

Interim City Manager
Director of Engineering/Public Works

David Ott
Mohammad "Mo" Sammak

Carollo Engineers

Jeff Weishaar

3. PLEDGE OF ALLEGIANCE

Chair Zito led the Pledge of Allegiance.

4. ORAL COMMUNICATIONS

None

5. PRESENTATION OF AWARDS

General Manager Thornton presented the California Water Environment Association (CWEA), San Diego Section, 2014 Plant of the Year Award to the Board of Directors.

6. CONSENT CALENDAR

Moved by Chair Zito and seconded by Member Marshall to approve the Consent Calendar.

Motion carried with the following vote of approval:

AYES: Blakespear, Marshall, Zito
NOES: None
ABSENT: Muir
ABSTAIN: None

Consent Calendar:

Agenda Item No. 7 Approval of Minutes for the January 12, 2015 meeting

Agenda Item No. 8 Approval for Payment of Warrants and Monthly Investment Report

Agenda Item No. 9 San Elijo Water Reclamation Facility Treated Effluent Flows – Monthly Report

Agenda Item No. 10 San Elijo Joint Powers Authority Recycled Water Program – Monthly Report

11. ITEMS REMOVED FROM CONSENT CALENDAR

None

12. NEW BOARD MEMBER ORIENTATION

General Manager Thornton gave an overview of the San Elijo Joint Powers Authority to the Board of Directors including history, mission, key infrastructure, and staff.

13. SAN ELIJO JOINT POWERS AUTHORITY MID-YEAR REVIEW OF THE FISCAL YEAR 2014-15 OPERATING BUDGET

Director of Finance & Administration, Paul Kinkel, presented the mid-year analysis of the SEJPA's FY 2014-15 estimated financial forecast. Mr. Kinkel stated that overall, the SEJPA is expected to conclude the fiscal year slightly below budget. The positive variances are primarily a result of lower than forecasted Personnel Expense and unspent Contingency funds offset by higher than budgeted Utility Costs. Recycled Water program is enjoying strong water sales due to new customers and an unusually warm, dry fall and early winter. The higher than anticipated water demand has resulted in increased production costs; however, these costs have been more than offset by the increased water sales. For the year, the Recycled Water Program is trending to finish the year with a budget surplus.

No action required. This memorandum was submitted for information only.

14. SAN ELIJO WATER RECLAMATION FACILITY 2015 FACILITY PLAN UPDATE

General Manager Thornton introduced Jeff Weishaar from Carollo Engineers to give a presentation on the Facility Plan Update for the San Elijo Water Reclamation Facility (SEWRF). Mr. Weishaar reported that their evaluation of the facility has been completed and they have produced a draft Facility Plan for review. The 2015 Facility Plan includes an evaluation of the facility assets, including the wastewater, recycled water, and ocean outfall systems. Elements of the Facility Plan include condition assessment and engineering evaluation of the facilities, regulatory compliance analysis, risk assessment for facility failure, project recommendations, capital project prioritization, budgetary cost estimates, and projected capital outlay for fiscal years 2015 – 2025. The Facility Plan identified 17 projects, with an estimated cost of \$36.3 million, which should be considered for completed over the next 10 years. The General Manager stated that the draft Facility Plan has been provided to the City staff for review and comment and that the final 2015 Facility Plan will be brought back to the Board of Directors in April 2015 for discussion and potential acceptance.

No action required. This memorandum was submitted for information only.

15. AWARD OF CONTRACT FOR SAN ELIJO LAND OUTFALL PRELIMINARY DESIGN AND CEQA PERMITTING

General Manager Thornton informed the Board of Directors that the San Elijo Ocean Outfall, which was constructed in 1965 and is co-owned with the City of Escondido, is considered to be at or near the end of its useful life. The outfall is critical wastewater infrastructure that is in constant use and which must be operational at all times. Failure of this pipeline will have both environmental and financial impacts. The portion of the pipeline that has been identified for replacement transverses the San Elijo Lagoon and crosses under the railroad tracks and Coast Highway.

The SEJPA requested proposals from six engineering firms, with the proposal from Kennedy/Jenks Consulting providing the best combination of qualifications, project understanding, and value. The preliminary design will evaluate construction methods to replace the existing outfall pipeline to identify the preferred method based on construction risk, cost, and final project longevity. Concurrent with the preliminary

design, the consultant will commence the California Environmental Quality Act (CEQA) permitting and environmental review. The cost of the preliminary design will be funded by the ocean outfall reserve.

Moved by Vice Chair Blakespear and seconded by Chair Zito to:

1. Approve the Agreement with Kennedy/Jenks Consultants for the San Elijo Land Outfall Preliminary Design and CEQA Permitting for an amount not to exceed \$167,912.

Motion carried with the following vote of approval:

AYES: Blakespear, Marshall, Zito
NOES: None
ABSENT: Muir
ABSTAIN: None

16. GENERAL MANAGER'S REPORT

None

17. GENERAL COUNSEL'S REPORT

None

18. BOARD MEMBER COMMENTS

None

19. CLOSED SESSION

None

20. ADJOURNMENT

The meeting adjourned at 10:30 a.m. The next Board of Directors meeting will be held on March 9, 2015.

Respectfully submitted,



Michael T. Thornton, P.E.
General Manager

SAN ELIJO JOINT POWERS AUTHORITY**PAYMENT OF WARRANTS**

15-03

For the Month of February

Warrant #	Vendor Name	G/L Account	Warrant Description	Amount
31267	All American First Aid & Safety	Supplies - Shop & Field	First aid supplies	56.65
31268	American Radio	Supplies - Office	Walkie-talkies	76.13
31269	Atlas Pumping Service Inc.	Services - Grease & Scum	Grease & scum pumping, grit & screening	1,297.23
31270	Brenntag Pacific, Inc.	Supplies - Chemicals	Hydrochloric acid and sodium tripolyphosphate	779.41
31271	The Brickman Group Ltd.	Services - Landscape	Landscape service - February	385.00
31272	Marisa Buckles	Subsistence - Travel	Mileage	27.71
31273	Chevron & Texaco Business Card	Fuel	Diesel for pump stations	223.89
31274	Cal State Compliance and Consulting	Services - Professional	Labor compliance	300.00
31275	Del Mar Blue Print	Printing	Presentation boards	264.33
31276	DMV	Services - Other	Safety records - 12/01/14 - 12/31/14	1.00
31277	EDCO Waste & Recycling Service	Utilities - Trash	Trash service - January	234.21
31278	City of Encinitas	Service - IT Support	SEJPA Administration Network	2,500.00
31279	Harbor Freight Tools	Minor Equip - Shop & Field	Electric winch	564.16
31280	Home Depot Credit Services	Supplies - Safety	Parking lot lighting	152.18
31281	Jennifer Basco	Subsistence - Travel	Mileage	59.50
31282	John Deere Landscapes, Inc.	Repair Parts Expense	Screws, plumbing handle, and flow control	64.15
31283	The Lawton Group	Services - Intern Program	Week worked - 01/19/15 - 01/25/15	343.75
31284	Marine Taxonomic Services, Ltd.	Subcontractors	Ocean outfall water sampling	2,500.00
31285	McMaster-Carr Supply Co.	Supplies - Safety	Coveralls and plumbing supplies	827.34
31286	Merkel & Associates	Subcontractors	Ocean outfall inspection & maintenance	23,920.00
31287	Midas Shop	Vehicle Maintenance	Exhaust flex pipe and oil changes	394.07
31288	Palomar Backflow	Services - Maintenance	Repair backflow devices and re-test	75.00
31289	Public Employees - Retirement	Retirement Plan - PERS	Retirement - 01/17/15 - 01/30/15	15,326.28
31290	Polydyne Inc.	Supplies - Chemicals	Clarifloc	11,426.40
31291	Preferred Benefit Insurance	Dental/Vision	Vision insurance - 02/01/15 -02/28/15	269.60
31292	RSF Security Systems	Services - Maintenance	On-site service - batteries	109.50
31293	Safe Hearing America	Services - Medical	On-site mobile hearing testing	835.75
31294	San Dieguito Water	Utilities - Water	Recycled water	8,402.03
31295	Santa Fe Irrigation District	Utilities - Water	Recycled water	918.61
31296	Sun Life Financial	Life Insurance/Disability	Life and disability insurance - February	1,252.82
31297	T.S. Industrial Supply	Repair Parts Expense	Plumbing supplies	1,548.25
31298	TargetSolutions Learning	Training - Safety	Annual user license on-line safety training	2,195.00
31299	Unifirst Corporation	Services - Uniforms	Uniform service	290.34
31300	Univar USA Inc.	Supplies - Chemicals	Citric Acid and drum	345.20
31301	Underground Service Alert/SC	Services - Alarm	Dig alert - January	69.00
31302	Vantagepoint Transfer Agents	EE Deduction Benefits	457 - ICMA	5,983.16
31303	Vantagepoint Transfer Agents	ICMA Retirement	401a - ICMA	2,632.58
31304	WageWorks	Payroll Processing Fees	FSA administration fee and compliance fee	113.00
31305	WEX Bank	Fuel	Fuel - January	518.92
31306	Wonderware West	Licenses	First support renewal	8,939.68
31307	Ag Tech, LLC	Services - Biosolids Hauling	Trailer rental and biosolids hauling	25,585.60
31308	AT&T - 9777	Utilities - Telephone	Phone service - 01/13/15 - 02/12/15	373.81
31309	AT&T	Utilities - Telephone	DSL - 01/10/15 - 02/09/15	89.27
31310	AT&T	Utilities - Telephone	DSL - 12/20/14 - 01/19/15	236.08
31311	AT&T	Utilities - Telephone	Alarm service	400.47
31312	Atlas Pumping Service Inc.	Services - Grease & Scum	Grease & scum pumping, grit & screening	1,297.23
31313	BankCard Center	Various	Repairs, office supplies, memberships	3,428.97
31314	Bob's Crane Service	Equipment Rental/Lease	Crane	749.00
31315	The Brickman Group Ltd.	Services - Landscape	Landscape service - March	385.00
31316	C.E. Wilson Corporation	Retention	Seascape Sur Low Flow Diversion structure	15,369.12
31317	California Water Technologies	Supplies - Chemicals	Ferric Chloride	4,587.71
31318	Chevron & Texaco Business Card	Fuel	Diesel	207.04
31319	Coast Waste Management, Inc.	Services - Grit & Screenings	Roll off service	1,576.88
31320	Complete Office	Supplies - Office	Office supplies	344.48
31321	Corodata	Rent	Record storage - January	101.91
31322	County of San Diego	Fees - Permits	District fees - APCD2002-SITE-04516	356.00
31323	County of San Diego	Fees - Permits	District fees - APCD2002-SITE-04513	356.00
31324	County of San Diego	Fees - Permits	District fees - APCD2002-SITE-04514	309.00
31325	County of San Diego	Fees - Permits	District fees - APCD2002-SITE-04515	1,318.00
31326	CS-Amsco	Repair Parts Expense	Actuator, gearbox, and valve	8,949.38
31327	Dixieline Lumber	Supplies - Safety	Repair, shop and field supplies	664.72
31328	DMV	Services - Other	Safety records - 01/01/15 - 01/31/15	8.00
31329	City of Encinitas	Licenses	McAfee AntiVirus	179.25
31330	Euronfins Calscience, Inc.	Services - Laboratory	Testing water samples	374.00

SAN ELIJO JOINT POWERS AUTHORITY**PAYMENT OF WARRANTS****15-03****For the Month of February**

Warrant #	Vendor Name	G/L Account	Warrant Description	Amount
31331	Golden Bell Products	Supplies - Chemicals	Lift station degreaser	267.84
31332	Health and Human Resource	Employee Assistance Program	March	300.96
31333	Jani-King of CA, Inc.	Services - Janitorial	Janitorial service - February	882.64
31334	Kennedy/Jenks Consultants	Services - Engineering	Pipeline relocation project	3,385.00
31335	King Lee Chemical Co.	Supplies - Chemicals	Liquid antiscalant	962.55
31336	Konica Minolta	Services - Maintenance	Monthly copier maintenance	164.42
31337	The Lawton Group	Services - Intern Program	Weeks worked - 01/26/15 - 02/09/15	721.88
31338	Marine Taxonomic Services, Ltd.	Subcontractors	Pile support survey and anode repair	3,450.00
31339	MegaPath Corporation	Utilities - Internet	T-1 service - March	279.27
31340	Olin Corporation	Supplies - Chemicals	Sodium Hypochlorite	2,958.15
31341	Olivenhain Municipal Water District	Rent	Pipeline rental payment	2,259.00
31342	Pacific Green Landscape	Services - Landscape	Landscape service - February	1,125.00
31343	P.E.R.S.	Medical Insurance - Pers	Health - March	18,088.08
31344	Public Employees- Retirement	Retirement Plan - PERS	Retirement - 01/31/15 - 02/13/15	15,324.65
31345	RSF Security Systems	Services - Alarm	Security - 03/01/15 - 05/31/15	1,413.00
31346	Safe-Entry	Supplies - Safety	Gas monitor, battery, back case module	1,244.30
31347	SDG&E	Utilities - Gas & Electric	Gas and electric - 01/07/15 - 02/05/15	40,487.03
31348	San Dieguito Water District	Utilities - Water	Recycled water	1,199.33
31349	Santa Fe Irrigation District	SFID Distribution Pipeline	Pipeline purchase payment - January	460.74
31350	San Diego Gas & Electric	Utilities - Gas & Electric	Gas and electric - 01/07/15 - 02/05/15	2,266.82
31351	San Elijo Lagoon Conservancy	Due to Other Govt Agencies	NSDCCD - Project	12,791.45
31352	Michael Thornton	Subsistence - Travel/Rm & Bd	CASA conference	527.93
31353	Christopher A. Trees	Subsistence - Travel/Rm & Bd	WaterReuse conference	461.85
31354	Trussell Technologies, Inc.	Services - Engineering	Process engineering and evaluation	1,347.00
31355	Unifirst Corporation	Services - Uniforms	Uniform service	258.32
31356	The San Diego Union Tribune	Subscriptions	Subscription	586.04
31357	UPS	Postage/Shipping	Mailing parts	28.71
31358	Valley Chain & Gear, Inc.	Supplies - Shop & Field	Synthetic grease and cogged belts	187.65
31359	Vantagepoint Transfer Agents	EE Deduction Benefits	457 - ICMA	5,983.16
31360	Vantagepoint Transfer Agents	ICMA Retirement	401a - ICMA	2,632.58
31361	Varec Biogas	Services - Maintenance	Biogas flares	1,295.00
31362	Verizon Wireless	Utilities - Telephone	Cell phones - 01/08 - 02/07	599.05
31363	VWR International, Inc.	Supplies - Lab	Lab supplies	535.40
31364	Water Environment Federation	Dues & Memberships	Membership	218.00
	San Elijo Payroll Account	Payroll	Payroll - 02/06/15 (Less Retirement Plans)	101,302.10
	San Elijo Payroll Account	Payroll	Payroll - 02/20/15 (Less Retirement Plans)	57,671.15
				<u>\$ 447,134.80</u>

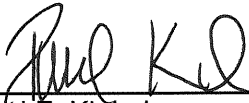
SAN ELIJO JOINT POWERS AUTHORITY

PAYMENT OF WARRANTS SUMMARY

**For the Month of February
As of February 28, 2015**

PAYMENT OF WARRANTS		\$ 447,134.80
Reference Number	15-03	

I hereby certify that the demands listed and covered by warrants are correct and just to the best of my knowledge, and that the money is available in the proper funds to pay these demands. The cash flows of the SEJPA, including the Member Agency commitment in their operating budgets to support the operations of the SEJPA, are expected to be adequate to meet the SEJPA's obligations over the next six months. I also certify that the SEJPA's investment portfolio complies with the SEJPA's investment policy.



Paul F. Kinkel
Director of Finance & Administration

STATEMENT OF FUNDS AVAILABLE FOR PAYMENT OF WARRANTS
AND INVESTMENT INFORMATION
As of February 28, 2015

FUNDS ON DEPOSIT WITH	AMOUNT
LOCAL AGENCY INVESTMENT FUND <i>(DECEMBER 2014 YIELD 0.25%)</i>	
RESTRICTED SRF RESERVE	\$ 630,000.00
UNRESTRICTED DEPOSITS	\$ 7,921,169.68
CALIFORNIA BANK AND TRUST <i>(FEBRUARY 2015 YIELD 0.01%)</i>	
REGULAR CHECKING	\$ 86,647.85
PAYROLL CHECKING	\$ 5,000.00
 TOTAL RESOURCES	 \$ 8,642,817.53

SAN ELIJO JOINT POWERS AUTHORITY
MEMORANDUM

March 9, 2015

TO: Board of Directors
San Elijo Joint Powers Authority

FROM: General Manager

SUBJECT: SAN ELIJO WATER RECLAMATION FACILITY TREATED EFFLUENT FLOWS –
MONTHLY REPORT

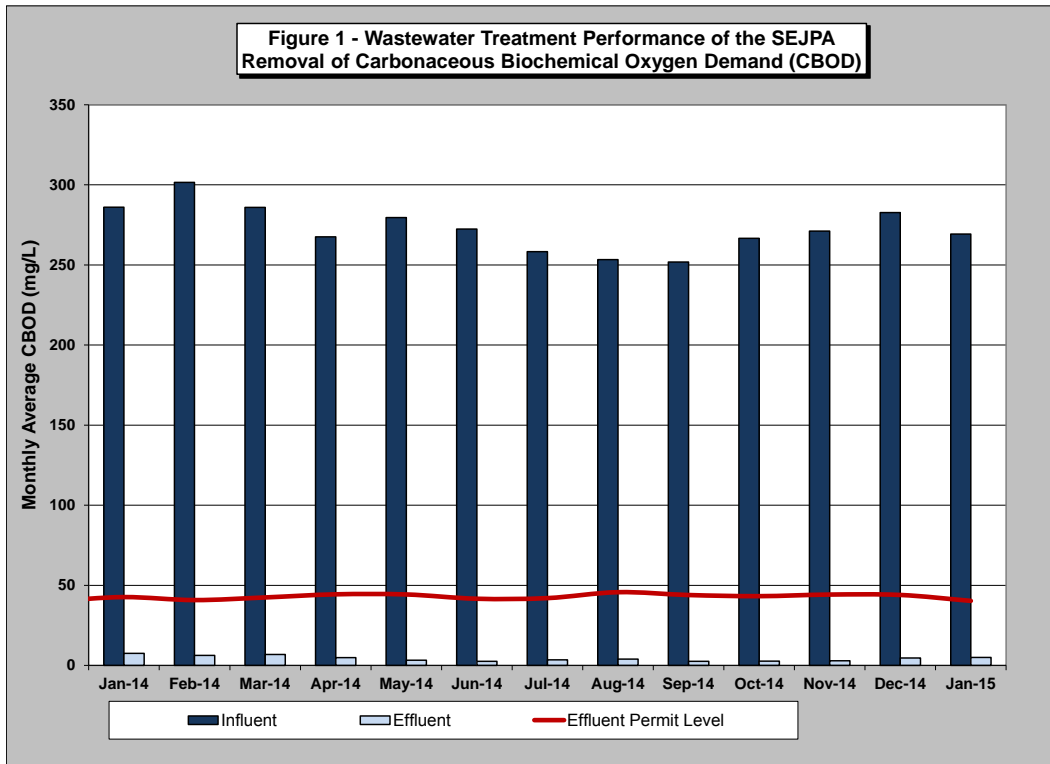
RECOMMENDATION

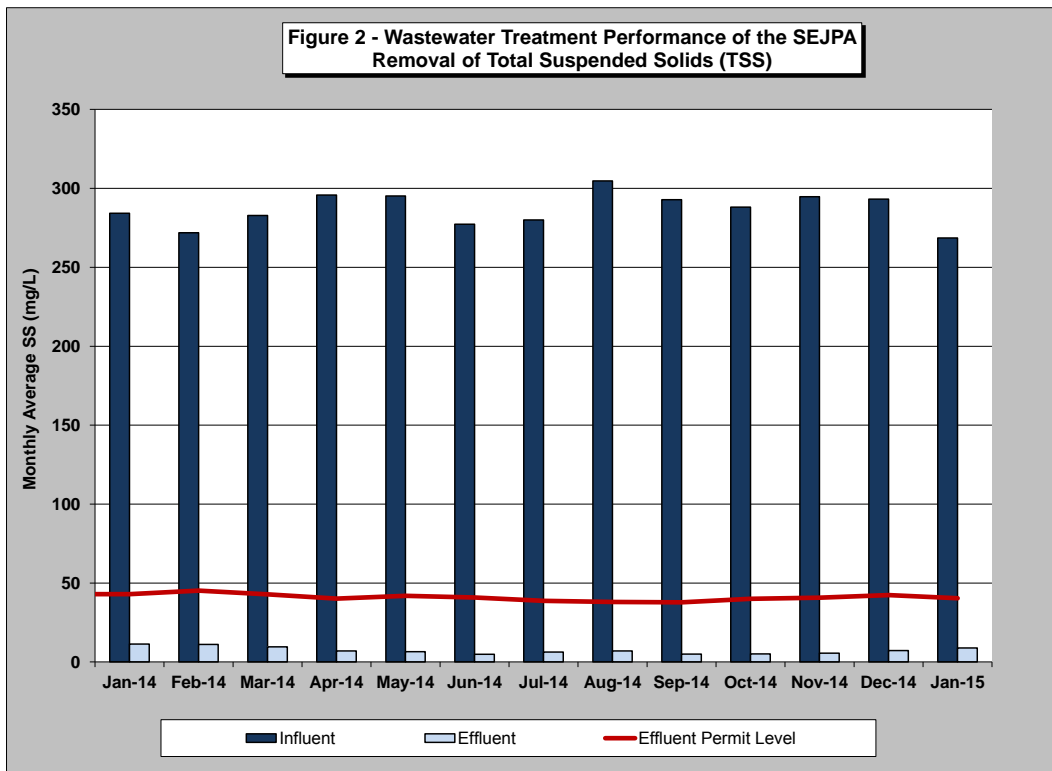
No action required. This memorandum is submitted for information only.

DISCUSSION

Monthly Treatment Plant Performance and Evaluation

Wastewater treatment for the San Elijo Joint Powers Authority (SEJPA) met all NPDES ocean effluent limitation requirements for the month of January 2015. The primary indicators of treatment performance include the removal of Carbonaceous Biochemical Oxygen Demand (CBOD) and Total Suspended Solids (TSS). The SEJPA is required to remove a minimum of 85 percent of the CBOD and TSS from the wastewater. For the month of January, treatment levels for CBOD and TSS were 98.1 and 96.7 percent removal, respectively, (as shown in Figure 1 and Figure 2).





Member Agency Flows

Presented below are the influent and effluent flows for the month of January. Average daily influent flows were recorded for each Member Agency. Total effluent flow was calculated for the San Elijo Water Reclamation Facility.

	January	
	<u>Influent (mgd)</u>	<u>Effluent (mgd)*</u>
Cardiff Sanitary Division	1.253	0.984
City of Solana Beach	1.232	0.967
Rancho Santa Fe SID	0.130	0.102
Total San Elijo WRF Flow	2.615	2.053

* Effluent is calculated by subtracting the recycled water production from the influent wastewater.

Table 1 (next page) presents the historical average, maximum, and unit influent and effluent flow rates per month for each of the Member Agencies during the past 5 years. It also presents the number of connected Equivalent Dwelling Units (EDUs) for each of the Member Agencies during this same time period.

TABLE 1 - SAN ELIJO WATER RECLAMATION FACILITY MONTHLY REPORT - FLOWS AND EDUS

MONTH	AVERAGE DAILY INFLUENT FLOW RATE (MGD)				AVERAGE DAILY EFFLUENT FLOW RATE (MGD)				CONNECTED EDUs				AVERAGE UNIT INFLUENT FLOW RATE (GAL/EDU/DAY)					
	CSD	RSF	CSD	SB	TOTAL PLANT	CSD	RSF	CSD	SB	TOTAL PLANT	CSD	RSF	CSD	SB	TOTAL EDUS	CSD	RSF	SB
Jan-10	1.532	0.155	1.372	3.059	1.271	0.128	1.138	2.537	8,196	472	7,728	16,396	187	329	178	187		
Feb-10	1.487	0.148	1.382	3.017	1.371	0.136	1.274	2.781	8,197	474	7,728	16,399	181	313	179	184		
Mar-10	1.455	0.145	1.398	2.998	1.108	0.110	1.064	2.282	8,198	474	7,728	16,400	177	306	181	183		
Apr-10	1.451	0.137	1.391	2.979	1.058	0.100	1.014	2.172	8,198	474	7,728	16,400	177	289	180	182		
May-10	1.379	0.128	1.385	2.892	0.672	0.063	0.675	1.410	8,201	474	7,728	16,403	168	270	179	176		
Jun-10	1.437	0.122	1.453	3.012	0.650	0.055	0.657	1.362	8,202	474	7,728	16,404	175	258	188	184		
Jul-10	1.375	0.119	1.466	2.960	0.694	0.061	0.740	1.495	8,204	475	7,728	16,407	168	251	190	180		
Aug-10	1.366	0.125	1.451	2.942	0.585	0.053	0.621	1.259	8,205	475	7,728	16,408	166	263	188	179		
Sep-10	1.346	0.114	1.342	2.802	0.627	0.053	0.626	1.306	8,207	475	7,728	16,410	164	240	174	171		
Oct-10	1.413	0.123	1.311	2.847	1.177	0.102	1.092	2.371	8,207	477	7,728	16,412	172	258	170	173		
Nov-10	1.399	0.117	1.297	2.813	1.090	0.091	1.011	2.192	8,209	478	7,728	16,415	170	245	168	171		
Dec-10	1.605	0.215	1.375	3.195	1.417	0.189	1.214	2.820	8,212	478	7,728	16,418	195	450	178	195		
Jan-11	1.452	0.158	1.338	2.948	1.272	0.139	1.172	2.583	8,227	478	7,728	16,433	176	331	173	179		
Feb-11	1.413	0.156	1.339	2.908	1.176	0.130	1.114	2.420	8,228	480	7,728	16,436	172	325	173	177		
Mar-11	1.387	0.208	1.343	2.938	1.186	0.178	1.148	2.512	8,229	480	7,728	16,437	169	434	174	179		
Apr-11	1.320	0.181	1.323	2.824	0.867	0.118	0.869	1.854	8,248	482	7,728	16,458	160	376	171	172		
May-11	1.327	0.162	1.320	2.809	0.564	0.069	0.561	1.194	8,248	483	7,728	16,459	161	336	171	171		
Jun-11	1.343	0.156	1.390	2.889	0.545	0.063	0.564	1.172	8,249	483	7,728	16,460	163	323	180	176		
Jul-11	1.293	0.151	1.430	2.874	0.425	0.050	0.470	0.945	8,250	484	7,728	16,462	157	312	185	175		
Aug-11	1.292	0.150	1.405	2.847	0.479	0.056	0.521	1.056	8,252	485	7,728	16,465	157	310	182	173		
Sep-11	1.262	0.146	1.333	2.741	0.564	0.066	0.596	1.226	8,254	486	7,728	16,468	153	301	172	166		
Oct-11	1.260	0.142	1.303	2.705	0.730	0.082	0.755	1.567	8,260	486	7,728	16,474	153	292	169	164		
Nov-11	1.338	0.167	1.307	2.812	1.099	0.137	1.074	2.310	8,261	486	7,728	16,475	162	344	169	171		
Dec-11	1.299	0.164	1.305	2.768	1.103	0.139	1.108	2.350	8,264	487	7,728	16,479	157	337	169	168		
Jan-12	1.291	0.145	1.303	2.739	1.032	0.116	1.042	2.190	8,266	488	7,728	16,482	160	232	169	166		
Feb-12	1.259	0.137	1.283	2.679	1.006	0.109	1.025	2.140	8,268	488	7,728	16,484	152	281	166	163		
Mar-12	1.313	0.153	1.255	2.721	0.968	0.113	0.925	2.006	8,269	488	7,728	16,485	159	314	162	165		
Apr-12	1.348	0.145	1.209	2.702	0.906	0.097	0.813	1.816	8,278	488	7,728	16,494	163	297	156	164		
May-12	1.333	0.150	1.211	2.694	0.577	0.065	0.525	1.167	8,280	488	7,728	16,496	161	308	157	163		
Jun-12	1.365	0.143	1.237	2.745	0.547	0.057	0.496	1.100	8,284	489	7,728	16,501	165	293	160	166		
Jul-12	1.372	0.126	1.296	2.794	0.457	0.042	0.431	0.930	8,289	489	7,728	16,506	166	258	168	169		
Aug-12	1.383	0.128	1.291	2.802	0.473	0.044	0.441	0.958	8,290	490	7,728	16,508	167	261	167	170		
Sep-12	1.349	0.142	1.220	2.711	0.544	0.058	0.492	1.094	8,291	490	7,728	16,509	163	290	158	164		
Oct-12	1.327	0.123	1.203	2.653	0.678	0.063	0.615	1.356	8,294	490	7,728	16,512	160	251	156	161		
Nov-12	1.343	0.128	1.181	2.652	0.862	0.082	0.758	1.702	8,299	490	7,728	16,517	162	261	153	161		
Dec-12	1.383	0.141	1.197	2.721	1.261	0.129	1.091	2.481	8,300	490	7,728	16,518	167	288	155	165		
Jan-13	1.357	0.145	1.215	2.717	1.155	0.124	1.034	2.313	8,300	490	7,728	16,518	163	296	157	164		
Feb-13	1.349	0.138	1.201	2.688	1.048	0.108	0.933	2.089	8,301	490	7,728	16,519	163	282	155	163		
Mar-13	1.402	0.154	1.235	2.791	0.905	0.100	0.797	1.802	8,302	493	7,728	16,521	169	314	160	169		
Apr-13	1.297	0.124	1.237	2.658	0.531	0.051	0.506	1.088	8,304	493	7,728	16,523	156	253	160	161		
May-13	1.339	0.126	1.185	2.650	0.376	0.036	0.333	0.745	8,304	493	7,728	16,525	161	256	153	160		
Jun-13	1.341	0.126	1.190	2.657	0.269	0.025	0.239	0.533	8,307	493	7,728	16,528	161	256	154	161		
Jul-13	1.366	0.144	1.269	2.779	0.482	0.050	0.448	0.980	8,309	493	7,728	16,530	164	292	164	168		
Aug-13	1.342	0.168	1.258	2.768	0.380	0.048	0.356	0.784	8,311	494	7,728	16,533	161	340	163	167		
Sep-13	1.343	0.117	1.193	2.653	0.403	0.036	0.358	0.797	8,311	494	7,728	16,533	162	237	154	160		
Oct-13	1.319	0.132	1.184	2.635	0.629	0.063	0.565	1.257	8,314	494	7,728	16,536	159	267	153	159		
Nov-13	1.348	0.133	1.194	2.675	0.932	0.092	0.826	1.850	8,315	494	7,728	16,537	162	270	155	162		
Dec-13	1.341	0.134	1.191	2.666	1.030	0.103	0.915	2.048	8,316	494	7,728	16,538	161	272	154	161		
Jan-14	1.322	0.135	1.194	2.651	0.851	0.087	0.768	1.706	8,318	495	7,728	16,541	159	273	155	160		
Feb-14	1.314	0.127	1.172	2.613	0.954	0.093	0.851	1.898	8,323	495	7,728	16,546	158	257	152	158		
Mar-14	1.339	0.134	1.185	2.658	0.858	0.086	0.760	1.704	8,324	496	7,728	16,548	161	270	153	161		
Apr-14	1.326	0.128	1.128	2.582	0.449	0.043	0.382	0.874	8,328	498	7,728	16,554	159	257	146	156		
May-14	1.353	0.124	1.127	2.604	0.159	0.015	0.132	0.306	8,333	498	7,728	16,559	162	249	146	157		
Jun-14	1.341	0.126	1.188	2.655	0.207	0.020	0.183	0.410	8,333	498	7,728	16,559	161	253	154	160		
Jul-14	1.271	0.130	1.307	2.708	0.232	0.024	0.239	0.495	8,338	499	7,728	16,565	152	261	169	163		
Aug-14	1.228	0.130	1.298	2.656	0.227	0.024	0.239	0.490	8,345	500	7,728	16,573	147	260	168	160		
Sep-14	1.215	0.113	1.232	2.560	0.211	0.019	0.214	0.444	8,351	500	7,728	16,579	145	226	159	154		
Oct-14	1.204	0.114	1.198	2.516	0.394	0.038	0.392	0.824	8,353	500	7,728	16,581	144	228	155	152		
Nov-14	1.237	0.118	1.198	2.553	0.667	0.063	0.646	1.376	8,354	502	7,728	16,584	148	235	155	154		
Dec-14	1.323	0.147	1.229	2.699	1.163	0.129	1.081	2.373	8,355	502	7,728	16,585	158	293	159	163		
Jan-15	1.253	0.130	1.232	2.615	0.984	0.102	0.967	2.053	8,359	503	7,977	16,838	150	259	154	155		

CSD: Cardiff Sanitary Division

RSF CSD: Ranch Santa Fe Community Service District

SB: Solana Beach

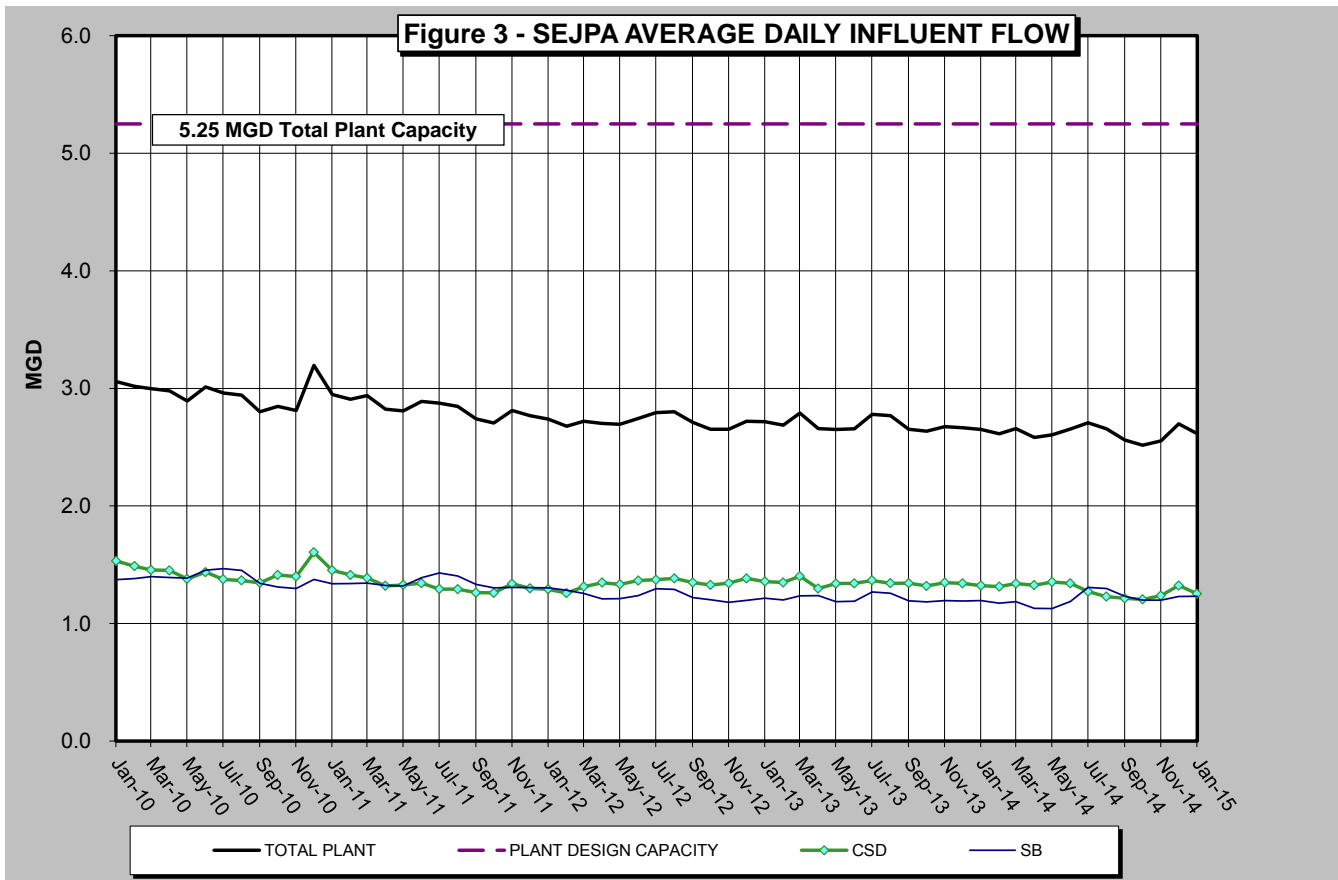
EDU: Equivalent Dwelling Unit

ASSUMPTIONS: SB average flow includes San Elijo Hills flow of 0.131 mgd

SB Connected EDUs includes 300 EDUs for the City of San Diego

EDU Numbers Revised by Dudek for March and April 2013

Figure 3 (below) presents the 5-year historical average daily flows per month for each Member Agency. This is to provide a historical overview of the average treated flow by each agency. As shown in the figure, the average treated flow has been approximately 2.6 million gallons per day (mgd). Also shown in Figure 3 is the total wastewater treatment capacity of the plant, 5.25 mgd, of which each Member Agency has the right to 2.5 mgd, and Rancho Santa Fe Community Service District has the right to 0.25 mgd.



City of Escondido Flows

The average and peak flow rate from the City of Escondido Hale Avenue Resource Recovery Facility, which discharges through the San Elijo Ocean Outfall, is reported below. The following average flow rate and peak flow rate is reported by the City of Escondido for the month of January 2015.

	Flow (mgd)
Escondido (Average flow rate)	9.77
Escondido (Peak flow rate)	18.0

Connected Equivalent Dwelling Units

The City of Solana Beach updated the connected EDUs number that is reported to the SEJPA in January 2015. The number of EDUs connected for each of the Member Agencies is as follows:

	Connected (EDU)
Cardiff Sanitary Division	8,359
Rancho Santa Fe SID	503
City of Solana Beach	7,640
San Diego (to Solana Beach)	337
Total EDUs to System	16,838

Respectfully submitted,



Michael T. Thornton, P.E.
General Manager

*

SAN ELIJO JOINT POWERS AUTHORITY
MEMORANDUM

March 9, 2015

TO: Board of Directors
San Elijo Joint Powers Authority

FROM: General Manager

SUBJECT: SAN ELIJO WATER RECLAMATION PROGRAM – MONTHLY REPORT

RECOMMENDATION

No action required. This memorandum is submitted for information only.

DISCUSSION

Recycled Water Production

For the month of January 2015, recycled water demand was 46.49 acre-feet (AF), which was met using 46.49 AF of recycled water and 0.00 AF of supplementation with potable water.

Figure 1 (attached) provides monthly supply demands for recycled water since September 2000. Figure 2 (attached) provides a graphical view of annual recycled water demand spanning fourteen fiscal years. Figure 3 (attached) shows the monthly recycled water demand for each January since the program began.

Respectfully submitted,



Michael T. Thornton, P.E.
General Manager

Figure 1 - MONTHLY RECYCLED WATER DEMAND

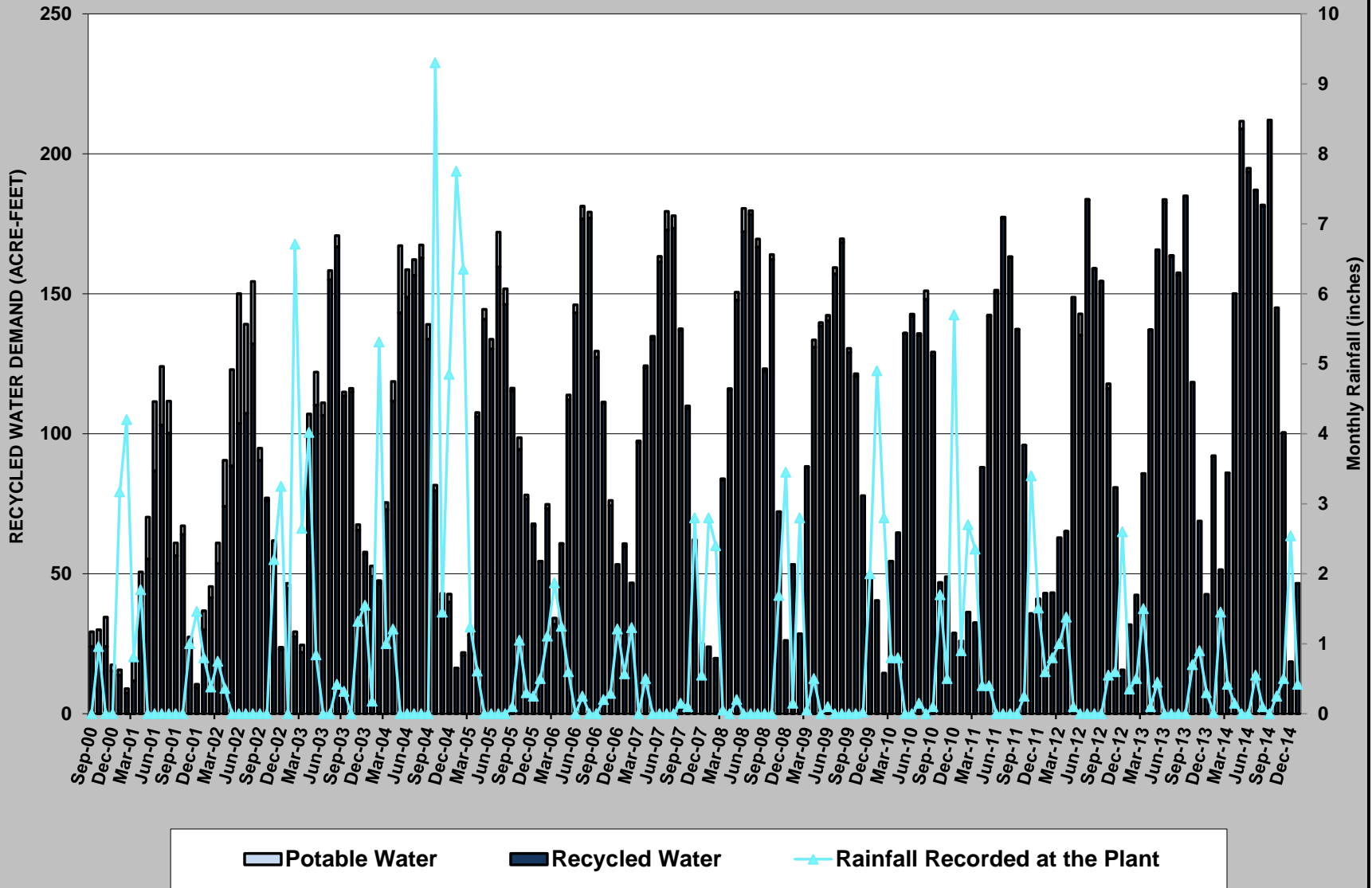


Figure 2 - RECYCLED WATER DEMAND by FISCAL YEAR

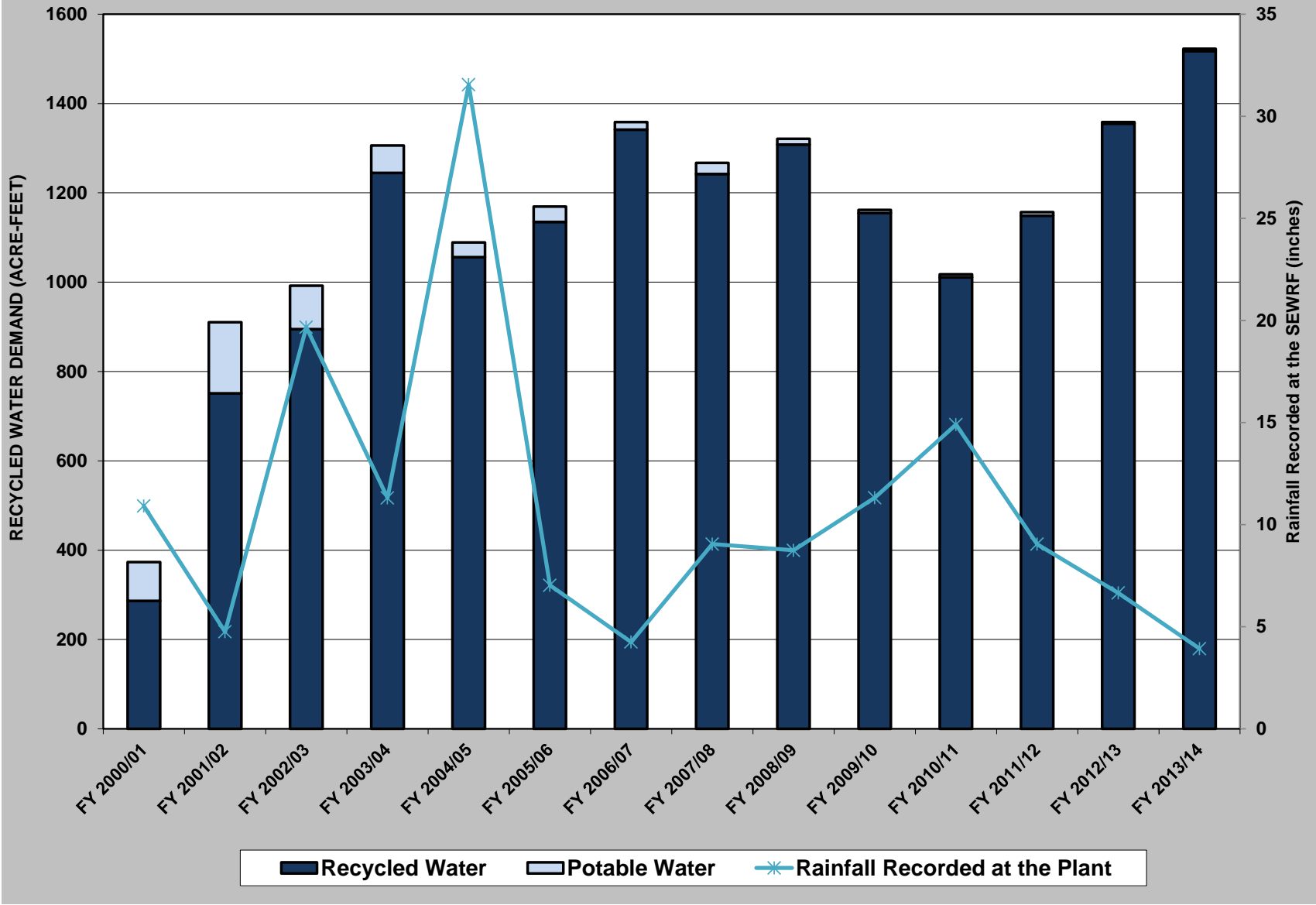
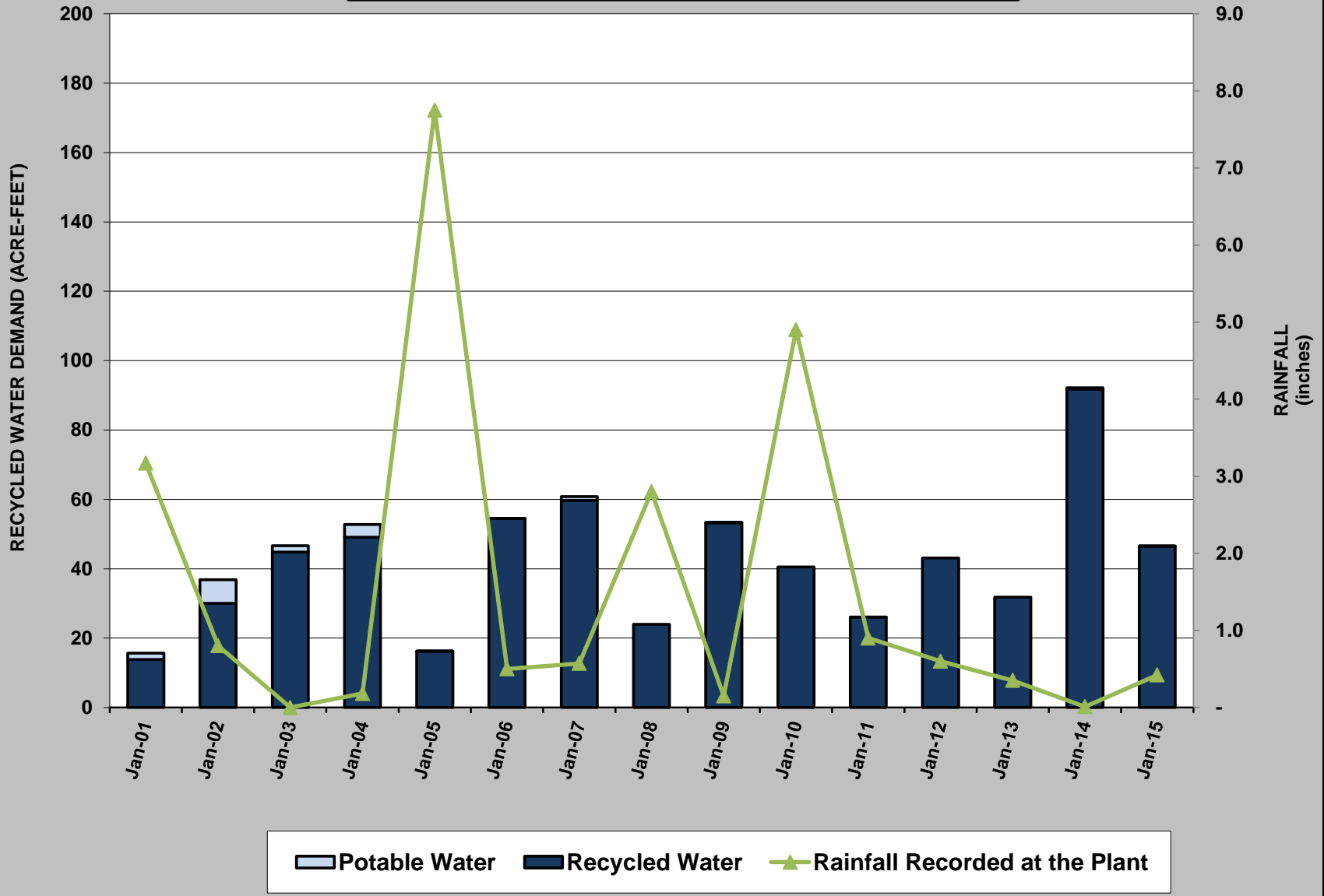


Figure 3 - JANUARY RECYCLED WATER DEMAND



SAN ELIJO JOINT POWERS AUTHORITY
MEMORANDUM

March 9, 2015

TO: Board of Directors
San Elijo Joint Powers Authority

FROM: General Manager

SUBJECT: MEMORANDUM OF UNDERSTANDING (MOU) BETWEEN THE SAN ELIJO JOINT POWERS AUTHORITY AND THE CITY OF DEL MAR FOR PUMP STATION OPERATION AND MAINTENANCE SERVICES

RECOMMENDATION

It is recommended that the Board of Directors:

1. Authorize the General Manager to execute a Memorandum of Understanding between the SEJPA and the City of Del Mar for Pump Station Operation and Maintenance Services;
2. Discuss and take action as appropriate.

BACKGROUND

In 2014, the San Elijo Joint Powers Authority (SEJPA) reached agreement with the City of Del Mar for leased wastewater treatment capacity at the San Elijo Water Reclamation Facility (SEWRF). The SEWRF has unused treatment capacity that is currently idle. By providing wastewater treatment to Del Mar, part of this idle capacity will be put to work. This will improve operational cost effectiveness of the wastewater facilities to all parties through improved economy of scale and will provide more water for the SEJPA's recycled water program. The agreement provides for Del Mar to pay the SEJPA for its fair share of the costs and risks of maintaining and operating the wastewater treatment and disposal facilities. Construction of the necessary infrastructure to convey the wastewater from Del Mar to the SEWRF is expected to be complete by early 2016 and soon after the SEJPA will begin receiving wastewater flows.

It is anticipated that Del Mar will send the San Elijo WRF approximately 170 million gallons of wastewater per year. The agreement includes safeguards to control risks and to maximize the potential for water recycling. The SEJPA has already reached agreement with one of its recycled water partners, Olivenhain Municipal Water District (OMWD) to purchase a portion of this recycled water. The Village Park Project, a joint effort between the SEJPA and OMWD, is expected to come on line in late 2016 and the project will likely purchase 70 million gallons of recycled water per year by 2020.

DISCUSSION

The City of Del Mar will utilize its 21st Street Pump Station to pump its wastewater to the Solana Beach wastewater collection system for final transport to the San Elijo WRF. The 21st Street Pump Station will be equipped with means to send the flow to SEJPA under normal operating conditions or to the City of San Diego during periods of high flows or as required for construction or maintenance activities. This will be one of the risk control strategies incorporated into the project. To ensure that the 21st Street Pump Station is operated in an integrated manner with the Solana Beach wastewater collection system, Del Mar has proposed that the SEJPA operate and maintain the station.



Figure 1 - 21st Street Pump Station, City of Del Mar

The SEJPA has carefully reviewed this request and agrees that this proposal reduces risk to all parties. The SEJPA provides similar pump station services for the cities of Encinitas and Solana Beach. The expected labor increase for this effort is approximately 70 percent of a Full Time Equivalent (FTE). This labor, as well as any necessary supplies and services to operate and maintain the pump station, will be funded by Del Mar.

To document the roles and responsibilities of each party, the SEJPA and Del Mar have developed a memorandum of understanding (MOU), which is included as Attachment 1. The MOU is substantially similar to the existing MOUs between the SEJPA and Encinitas and Solana Beach for pump station operation and maintenance. The MOU was prepared to place financial responsibility for operation and maintenance costs onto Del Mar and to provide fair and reasonable risk protection to the SEJPA and its member agencies.

FINANCIAL IMPACTS

The estimated financial impact of providing operation and maintenance services for the 21st Street Pump Station is approximately \$76,000. This does not include annual permit fees and utilities costs, which Del Mar will pay directly. This cost estimate is consistent with other similar sized pump stations that the SEJPA operates and maintains (Figure 2). Costs associated with pump station operation and maintenance can vary from year to year and are typically influenced by non-annual maintenance or repair efforts.

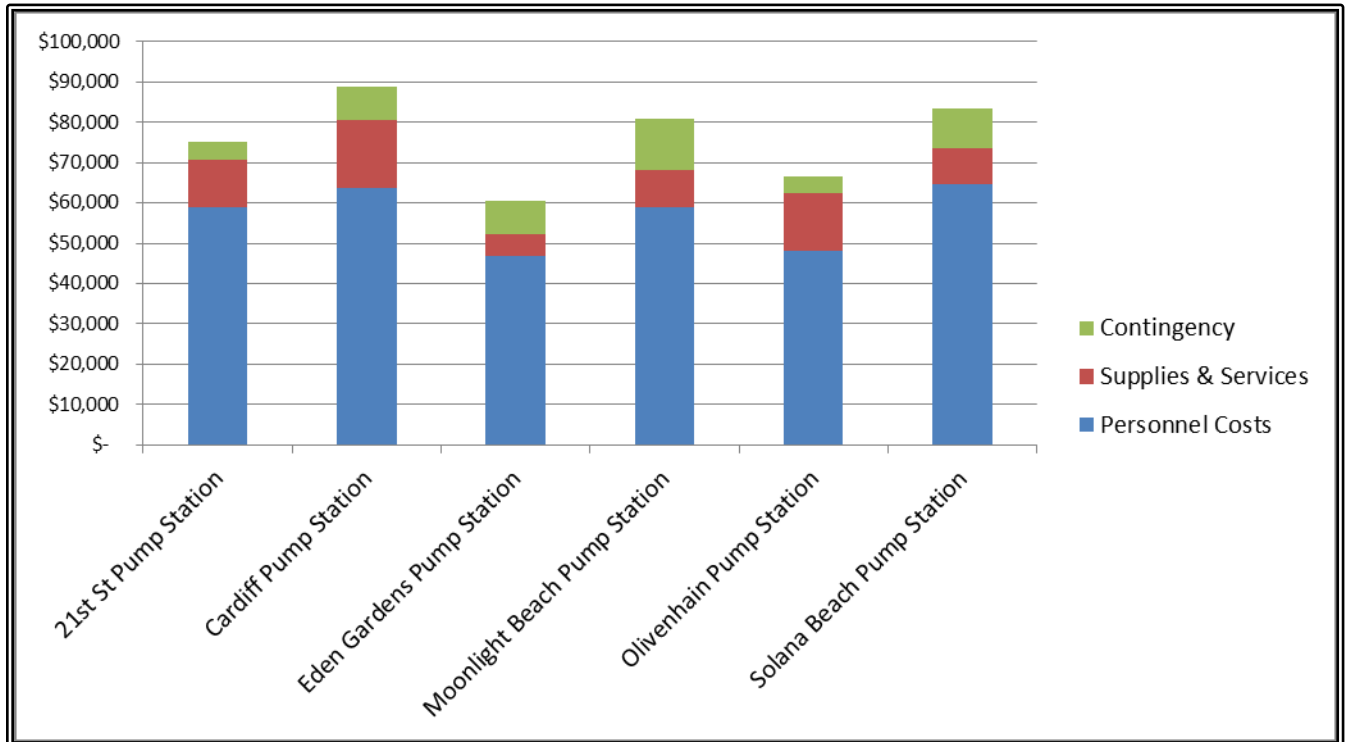


Figure 2 - Pump Station Cost Comparison

RECOMMENDATION

It is recommended that the Board of Directors:

1. Authorize the General Manager to execute a Memorandum of Understanding between the SEJPA and the City of Del Mar for Pump Station Operation and Maintenance Services;
2. Discuss and take action as appropriate.

Respectfully submitted,

Michael T. Thornton, P.E.
General Manager

Attachment 1: Memorandum of Understanding between San Elijo Joint Powers Authority and City of Del Mar for Pump Station Operation and Maintenance Services

ATTACHMENT 1

MEMORANDUM OF UNDERSTANDING BETWEEN SAN ELIJO JOINT POWERS AUTHORITY AND CITY OF DEL MAR FOR PUMP STATION OPERATION AND MAINTENANCE SERVICES

This Memorandum of Understanding is entered into as of _____, 2015 by and between the City of Del Mar, hereinafter referred to as CITY, and the San Elijo Joint Powers Authority, hereinafter referred to as SEJPA (collectively referred to as "Parties" and individually referred to as "Party"), with respect to the following facts:

RECITALS

WHEREAS, CITY owns the 21st Street sewer pump station (referred to as "Pump Station"), including the force mains associated with such station, their valves and appurtenances, and certain gravity sewer lines; and

WHEREAS, for purposes of this Memorandum of Understanding, the Pump Station and related facilities located inside the fencing surrounding Pump Station, is identified in Exhibit 1, City Owned Facilities that are currently operated and maintained by CITY; and

WHEREAS, CITY desires SEJPA to operate and maintain the Pump Station, and SEJPA is willing to provide such services, subject to written terms and conditions.

NOW, THEREFORE, in consideration of the mutual promises, obligations and covenants set forth herein, CITY and SEJPA set forth the following Memorandum of Understanding ("MOU").

ARTICLE I: SCOPE OF WORK

The SEJPA shall maintain in good operating condition the equipment at the Pump Station. Specific services to be provided by SEJPA hereunder are detailed in **Exhibit 2**, Scope of Work for Annual Operation and Maintenance ("O&M") Services. In performing these services, SEJPA shall follow practices consistent with generally accepted technical standards and SEJPA represents that its staff are skilled in the expertise necessary to provide these services.

The SEJPA shall be responsible solely for the operation and maintenance of the Pump Station as provided by the CITY. While the intent of the SEJPA is to maximize the performance of the existing facilities, SEJPA shall not be liable for any consequential damage or failure caused by the inability of the facilities to handle flows outside of their rated operating range.

ARTICLE II: BUDGETING

A. CITY shall compensate SEJPA for all expenses associated with the operation and maintenance of the Pump Station, in accordance with the annual budget to be developed and recommended by SEJPA and approved by CITY.

B. The Pump Station budget shall be based on a fiscal year beginning July 1st and extending through June 30th of the following year, and shall be prepared in accordance with the Lease Agreement Between the San Elijo Joint Powers Authority and the City of Del Mar.

1. The operating and maintenance budgets shall be separate for each Pump Station, and each budget shall include the estimated amount of money required for operation and maintenance including, but not limited to: salaries and benefits, building and equipment maintenance costs, utilities, chemicals, permits and permit amendment costs, accounting and auditing costs, administration costs, legal services, overhead costs, insurance and other costs as required for operation and maintenance in conformance with this MOU.

2. Concurrently with the preparation of the SEJPA Annual Budget, SEJPA shall also prepare a recommended capital budget as part of the annual budget process for the Pump Stations. The capital budget shall be for replacement and rehabilitation efforts which will not affect the designed capacity or operating characteristics of the station(s), to maintain the station(s) reliability, safety and compliance with regulatory requirements.

3. CITY shall be responsible for the planning, design, bidding, construction management and supervision of all capital improvements for the Pump Stations. Under no circumstances shall SEJPA be responsible for the planning, design, bidding, construction management or supervision of such work at the Pump Station. SEJPA shall, however, coordinate the continued operation and maintenance of the Pump Stations as necessary during the course of such construction. CITY shall, before letting any contract for such work, provide a reasonable opportunity to SEJPA to comment on plans for making the proposed improvements as respects operational and maintenance consequences. Any such contract shall require the contractor to name SEJPA as additional insured as to any insurance required of the contractor by the awarding agency and as to which the awarding agency will be insured, provided that SEJPA need not be an insured under any bid, performance or payment bonds required.

C. SEJPA shall forward estimated operating and capital budgets to CITY for review. Until such time as formal approval has been received from CITY, the estimated budgets shall constitute merely proposed budgets, subject to consideration or revision. In the event a recommended budget is not approved, SEJPA shall continue to operate and maintain the Pump Stations using the previous fiscal year budget figures, provided that if no budget is approved prior to the end of the current fiscal year, SEJPA shall have no obligation to continue to provide services hereunder after the close of the fiscal year.

ARTICLE III: COMPENSATION

SEJPA shall bill CITY on a quarterly basis, on July 1, October 1, January 1 and April 1. CITY shall promptly pay for one fourth of the annual cost of operation and maintenance services for the Pump Stations, as approved in the annual operating budget. In the event at the end of any fiscal year, the amount paid by CITY exceeds the amount which should have been charged based upon the actual expenses for the full fiscal year, the excess shall be credited to the CITY

for the following fiscal year. In case of underpayment, the CITY shall be billed by the SEJPA for the deficiency.

ARTICLE IV: PERMITTING

Except as otherwise agreed upon by all Parties in writing, CITY shall be responsible for all costs and activities related to the issuance, amendment or renewal of any regulatory permit required or which may become required by the State of California, including, but not limited to, the Regional Water Quality Control Board and/or by the government of the United States of America in the operation and/or maintenance of the Pump Stations or any other permits required for the Pump Stations. SEJPA is not responsible for obtaining, renewing, or amending any permit for the Pump Stations. SEJPA shall coordinate with CITY during the preparation of SEJPA's annual Operation & Maintenance Budget, which includes specific line item budget amounts for permits that may be required at the Pump Stations.

ARTICLE V: HOLD HARMLESS

SEJPA and CITY agree to indemnify and hold harmless each other, their officers, officials, contractors and employees from all claims arising out of the performance of services provided for herein except the intentional misconduct of the other party.

ARTICLE VI: DISCLAIMERS

A. SEJPA shall not be responsible for any defects, omissions or errors in the design or construction of the Pump Stations, but only for the exercise of ordinary care in the operation and maintenance of the Pump Stations.

B. In the event of an overflow inside the fence line of a Pump Station, SEJPA will assist the City in containing the spill and repairing the spill source. The City will be responsible for contacting any regulatory agency, per any applicable permitting requirements, within the required notification time specified in any applicable permit or permits, and shall prepare, or cause to be prepared, a written Sanitary Sewer Overflow Report in conformance with all applicable permit requirements.

C. In the event of a regulatory permit violation resulting from operation or maintenance of the Pump Stations, SEJPA shall immediately notify the City. SEJPA shall, within the required notification time, prepare or cause to be prepared, a written report on behalf of CITY. CITY shall review and comment on the content of the written report prior to submittal by SEJPA.

D. CITY shall be responsible for developing and maintaining the Pump Stations' spill response plans required by any regulatory agency, and making current copies of such plans available to SEJPA. SEJPA shall comply with such plans on behalf of CITY as to the Pump Stations; provided that SEJPA shall provide CITY draft spill response plans for such Pump Stations. Except as set forth in this paragraph, however, SEJPA shall have no responsibility for maintaining or carrying out the spill response plans of CITY.

E. SEJPA shall make good faith efforts to comply with all regulatory requirements imposed on the owner which are applicable to the Pump Stations. CITY shall promptly advise SEJPA if or when there are other applicable requirements. CITY shall promptly advise the SEJPA if or when applicable requirements change.

ARTICLE VII: TERMINATION

This MOU shall remain in effect until amended in writing. This MOU may be cancelled by either party upon one hundred eighty (180) days prior written notice.

ARTICLE VIII: NOTICES

A. CITY's point of contact for issues related to the implementation of this MOU is the Public Works Director. SEJPA's point of contact for issues related to the implementation of this MOU is the SEJPA General Manager.

B. All notices, statements, demands, requests, consents, approvals, authorizations, agreements, appointments or designations hereunder shall be given in writing and addressed to:

To CITY:

City Manager
1050 Camino del Mar
Del Mar, CA 92014

To SEJPA:

General Manager
2695 Manchester Avenue
Cardiff by the Sea, CA 92007

ARTICLE IX: MODIFICATIONS

This MOU contains all of the terms and conditions made between the Parties hereto and shall not be altered except by an amendment in writing.

ARTICLE X: GOVERNING LAW

This Memorandum is to be governed by and construed in accordance with the laws of the State of California.

IN WITNESS WHEREOF, the Parties hereto have caused this MOU to be executed as of the day and year first above written.

CITY OF DEL MAR

SAN ELIJO JOINT POWERS AUTHORITY

By: _____

By: _____

Approved as to form

By: _____
CITY Counsel

By: _____
SEJPA Counsel

EXHIBIT 1

**CITY-OWNED FACILITIES
OPERATED AND MAINTAINED BY SAN ELIJO JOINT POWERS AUTHORITY**

- 1) 21st Street Pump Station

EXHIBIT 2

SCOPE OF WORK FOR ANNUAL OPERATION AND MAINTENANCE ("O&M") SERVICES

SEJPA Pump Station Responsibilities

SEJPA operates and maintains pump stations to be in compliance with regulatory permits.

SEJPA inspects each sanitary sewer pump station daily (including weekends and holidays) to ensure proper pump station operations and site security.

SEJPA monitors and responds to pump station alarms 24-hours a day (including weekends and holidays) for critical events, such as power failures, high wet wells, losses of flow, and flooded dry wells.

CITY maintains permits, hazardous material business plans, and Air Pollution Control District (APCD) permits for air treatment systems and emergency power generators.

Provide technical assistance for design and construction efforts to improve, upgrade, or replace the pump stations.

Assist the City of Del Mar with collection system interface and operation.

SEJPA provides, prepares and submits a recommended O&M and Capital Budget annually for the pump station.

Manage planning, design, bidding, and construction of small-scale CIP projects.

Provides supervision for consultant, contractor, and vendor access to pump stations.

Explore asset enhancement/upgrade opportunities for optimizing pump station operation.

Coordinate with SDG&E on SDG&E projects and planned power outages.

Typical SEJPA Pump Station O&M Procedures

Daily

1. Record hour meter readings of pumps and motors
2. Inspect pumps and electric motors
 - Alternate lead pumps
 - Check operation of motors
 - Check operation of controls as they apply to the station
 - Check mechanical seals
 - Check mechanical and electrical systems for unusual noises, temperatures, and operational readings
 - Inspect pumping system for proper operation (remove blockages from pumps as needed)
 - Inspect dry well sump pump for proper operation (clean debris in sump as needed)

- Check the ventilation system
 - Check for proper lighting
3. Inspect wet well
 4. Inspect engine generator set as per directions on generator clipboard
 5. Inspect outside station for security integrity including graffiti, vandalism, and fence tampering. Report incidences to City for resolution
 6. Record odor scrubber readings for APCD compliance

Weekly

1. Wash and clean drywell
2. Flush out sump pump
3. Perform yard maintenance and housekeeping as needed
4. Pump down and clean wet well. Hose down walls and scum accumulations

Monthly

1. Test alarms
 - Power failure
 - High dry well
 - High wet well
 - Generator engine online where applied
2. Inspect fire extinguishers
3. Exercise suction and discharge valves
4. Replace all log sheets with new and take utility readings
5. If Diesel day tank is low call for refill
6. Test run emergency power generator for approximately 1/2 hour

Annually

1. Facilitate APCD Inspection (Facility inspection and review of files and records)
2. Prepare recommendations for repairs and capital improvements to be included in annual budget

SAN ELIJO JOINT POWERS AUTHORITY
MEMORANDUM

March 9, 2015

TO: Board of Directors
San Elijo Joint Powers Authority

FROM: General Manager

SUBJECT: JOINT POTABLE REUSE CONCEPT STUDY WITH SANTA FE IRRIGATION DISTRICT AND SAN DIEGUITO WATER DISTRICT

RECOMMENDATION

It is recommended that the Board of Directors:

1. Authorize the General Manager to execute the Cost Sharing Agreement with San Dieguito Water District and Santa Fe Irrigation District to jointly fund an Advanced Water Purification Concept Study for an amount not to exceed \$40,000; and
2. Discuss and take action as appropriate.

BACKGROUND

Due to droughts and other events that strain and limit California's existing water supplies, water agencies are examining options that go beyond current conventional water supplies to create long-term reliable and sustainable water systems. As part of these efforts, water districts are investigating the feasibility of potable reuse projects that can create high quality, locally produced, water.

Potable reuse systems use advanced treatment processes to remove contaminants from wastewater so that it meets drinking water standards and other appropriate water quality objectives. Typically, this purified water is then released into a surface water body or aquifer (also called an environmental buffer) before being withdrawn, further treated, blended with other conventional water supply sources, and piped to homes and businesses.

DISCUSSION

The San Elijo Joint Powers Authority (SEJPA), Santa Fe Irrigation District (SFID), and the San Dieguito Water District (SDWD) are interested in exploring the feasibility of developing a potable reuse supply that could increase supply diversification and reliability for the local region.

For the past two decades, the SEJPA has partnered with SFID and SDWD for developing and operating a non-potable recycled water system. The success of this recycled water program has been in large part due to the collaboration and partnership of the three districts. These

strong working relationships have led to further discussions for exploring new opportunities to maximize water reuse regionally. As technology for the advanced treatment has improved, coupled with increased scientific understandings of water purification, many water districts within California and other drought stricken states are evaluating the application of potable reuse to supplement local water supplies.

Working together, the three agencies propose to prepare an Advanced Water Purification Concept Study (AWPCS) to identify potential opportunities and challenges associated with this project. There is a natural synergy between the project partners as SFID and SDWD jointly own the San Dieguito Reservoir and the RE Badger Water Treatment Plant, the SEJPA owns the San Elijo Water Reclamation Facility and the San Elijo Ocean Outfall, and the SDWD owns an abandoned 30-inch diameter pipeline that could potentially connect the water reclamation facility with the San Dieguito Reservoir. Collectively, this infrastructure can play an important role in developing a potable reuse system. Attached for your review and consideration is a Scope of Work for the preparation of the AWPCS (Attachment 1). It is proposed that the SFID serve as the lead agency and retain the consultant for this work. The SEJPA will provide support in the development of the AWPCS. Attachment 2 includes the Cost Sharing Agreement for the Advanced Water Purification Feasibility Study.

FINANCIAL IMPACT

The proposed total cost of this work is \$120,000, which would be allocated equally among the three agencies. The SEJPA's portion of the work is \$40,000. Although this project was not anticipated for this budget cycle, adequate funds are available in the Water Reclamation Program.

It is therefore recommended that the Board of Directors:

1. Authorize the General Manager to execute the Cost Sharing Agreement with San Dieguito Water District and Santa Fe Irrigation District to jointly fund an Advanced Water Purification Concept Study for an amount not to exceed \$40,000; and
2. Discuss and take action as appropriate.

Respectfully submitted,



Michael T. Thornton, P.E.
General Manager

Attachment 1: Advanced Water Purification Concept Study Scope of Work
Attachment 2: Cost Sharing Agreement for the Advanced Water Purification Concept Study



February 6, 2015

Michael J. Bardin
General Manager
Santa Fe Irrigation District
5920 Linea del Cielo
Rancho Santa Fe, CA 92067

Subject: Potable Reuse Feasibility Study

Dear Michael,

We are pleased to submit the enclosed proposal to the Santa Fe Irrigation District (SFID) for consideration along with its partners the San Dieguito Water District (SDWD) and the San Elijo Joint Powers Authority (SEJPA). The scope of work has been developed to provide a high level framing of potable reuse past, present and future as well as identifying the limitations and opportunities for long-term and near-term potable reuse projects to deliver purified water to the Badger Water Treatment Plant. The scope of work also describes an optional task for preparing a proposal for State of California funds for a Facilities Plan that would provide additional project granularity. If State funds are secured, additional detail on the necessary facilities and facility improvements would be identified as well as some preliminary environmental work to assist with a smooth transition to the next project phase - such as pre-design. Although we recommend that SFID proceed with this task, it has been made optional and budget has been prepared without this task to assist with your review.

We look forward to supporting your leadership in pursuing a sustainable water supply for the San Diego region and are truly excited by the opportunity.

Respectfully,
Trussell Technologies, Inc.

A handwritten signature in blue ink that reads "R. Trussell". The signature is fluid and cursive, with a long, sweeping underline that extends to the right.

R. Shane Trussell, Ph.D., P.E., BCEE
President

**SANTA FE IRRIGATION DISTRICT
SAN DIEGUITO WATER DISTRICT
SAN ELIJO JOINT POWERS AUTHORITY**

**SCOPE OF WORK
POTABLE REUSE FEASIBILITY STUDY**

The Santa Fe Irrigation District (SFID), San Dieguito Water District (SDWD), and San Elijo Joint Powers Authority (SEJPA) are interested in investigating the feasibility of potable reuse project via surface water augmentation at San Dieguito Reservoir. Source water for the potable reuse will be generated by SEJPA to supplement water supplies for SFID and SDWD. The following Scope of Work is intended to inform SFID, SDWD, and SEJPA on whether a potable reuse project is a viable approach for expanding local water supplies.

BACKGROUND

SFID and SDWD jointly own the R.E. Badger Filtration Plant, which provides both districts with treated potable water. The Badger Plant has a nominal capacity of 40 mgd and receives untreated water from Lake Hodges, San Dieguito Reservoir, and imported water from the San Diego County Water Authority. Current potable water demands for SFID and SDWD are approximately 12,000 and 6,500 AFY, respectively. SFID and SDWD typically receive approximately 70 percent of their raw water from the San Diego County Water Authority. The usable storage capacity of the San Dieguito Reservoir, which operates as a forebay to the Badger Plant, is roughly 800 AF.

SEJPA owns and operates the 5.25 mgd capacity San Elijo Water Reclamation Facility (SEWRF), which currently has an average daily flow of approximately 3 mgd. The recycled water production capacity at the SEWRF is 3.03 mgd, or about 2,780 AFY. In the future, it is anticipated that the recycled water production capacity at the SEWRF will increase to about 4,000 AFY.

SEJPA operates its recycled water utility in partnership with SFID and SDWD. The recycled water customers are primarily irrigation with some limited industrial use. The current annual demand of these customers is approximately 1,200 AF. SEJPA, SFID, and SDWD have successfully collaborated on recycled water for more than 15 years, which naturally leads to expanding the partnership to evaluate the potential of potable reuse.

TASK 1 – Status of Potable Reuse in California

During this task, the team will summarize the current status of potable reuse in California. The purpose of this task is to present a comprehensive yet high-level introduction on potable reuse that is appropriate for governance boards, high-level decision-makers, and the public, and that will lay the groundwork for understanding project scenarios produced in Tasks 2 and 3. This summary will include:

- List and description of existing potable reuse projects in California, including source water characteristics, treatment processes used, and permitting strategy.
- Description of recent potable reuse regulations and discussion of realistic timelines associated with implementation
- Discussion of potable reuse terminology (e.g., indirect versus direct, groundwater recharge, surface water augmentation, source water augmentation, and flange-to-flange)
- Discussion of institutional constraints common to all potable reuse projects

TASK 2 – Ultimate Project: Potable Reuse with No Environmental Buffer and No Dilution

The goal of this task is to identify the ultimate SFID/SDWD/SEJPA potable reuse project, meaning a project with maximum potable reuse flows without an environmental buffer and no

dilution with other source water types. The feasibility of the ultimate project will have a number of limitations, which the team will identify and assess. These limitations will likely consider topics such as:

- Water Treatment Plant (i.e., R. E. Badger Filtration Plant)
- Pipelines
- Storage (e.g., San Dieguito Reservoir/Lake Hodges)
- Wastewater Treatment Plant (i.e., San Elijo Water Reclamation Facility)
- Available Wastewater Flows
- Brine Disposal
- Schedule
- Regulations
- Public Acceptance

Once the limitations have been assessed and addressed, a long-term strategy will be recommended for addressing the identified limitations and achieving the ultimate potable reuse project. A conceptual cost of water associated with the ultimate potable reuse project will be developed and compared to costs of other common water sources.

TASK 3 – Near-Term Potable Reuse Project

As part of Task 3, a near-term potable reuse project scenario will be identified, that maximizes feasibility and has minimal limitations as compared to the ultimate project developed in Task 2. The following issues shall be investigated to develop the near-term potable reuse project:

- Permitting feasibility – what requirements must be met to fit within the existing framework of potable reuse regulations (e.g., 10:1 dilution requirement)
- Current availability of flows to and from the San Elijo Water Reclamation Facility
- Existing treatment processes and capacity
- Strategy to serve both existing recycled water customers and a potable reuse project
- Existing storage capacity
- Existing brine disposal options
- Schedule
- Cost

Task 3 will include a request for information each for SFID, SDWD, and SEJPA to gather relevant baseline assumptions to help define existing infrastructure, treatment processes, and current planning efforts that might be leveraged for the short-term project.

The near-term project is expected to be complementary to the ultimate project. For example, the near-term project may include facilities that would be expandable in capacity to that of the ultimate project, or may serve as a “stepping stone” to addressing institutional issues and public acceptance constraints for the ultimate project. The near-term project will have limitations as well, albeit a much shorter list than that of the ultimate project, and these will be identified and a strategy for implementing the near-term potable reuse project will be identified.

TASK 4 (OPTIONAL) – Facilities Plan Grant Application

Tasks 2 and 3 develop project scenarios that would benefit greatly from a comprehensive facilities plan that would investigate in more detail how each project's infrastructure would be laid out. For example, this facilities plan would evaluate and identify the ideal locations for additional treatment processes at the San Elijo Water Reclamation Facility for both the near-term and ultimate potable reuse projects. Task 4 provides funds for the team to prepare the necessary documentation for the State Water Resources Control Board Facilities Planning Grant Program.

TASK 5 – Public Meetings and Presentations

As part of this task, a designated lead team member will present at three (3) public meetings, such as agency board meetings, and serve as a technical expert on potable reuse. It is expected that the presentations will be approximately 20 minutes each. In addition, two (2) internal meetings (e.g., agency or inter-agency committee meetings) are included to update decision-makers on the progress of this project.

TASK 6 – Project Management and QA/QC

This task incorporates coordination to maintain project communications, budget, and schedule. The team proposes progress meetings to update SFID, SDWD, and SEJPA on project deliverables, and allow further discussion of the project. The team will provide meeting agendas and minutes. For budgetary purposes, a kick-off meeting and three (3) progress meetings with SFID, SDWD, and SEJPA staff are planned.

DELIVERABLES

One draft and one final report will be provided covering the work performed in Tasks 1, 2, and 3. The draft report will be provided to SFID, SDWD, and SEJPA for comments, and comments will be addressed in the final report. Should Task 4 be implemented, the deliverable will consist of preparation of documents necessary for the grant application. Task 5 will include three (3) sets of presentation slides, developed for each public meeting. Task 6 includes monthly invoices with progress reports and budget tracking results, as well as progress meeting agendas and minutes.

Trussell Technologies Cost Breakdown by Task
SFID/SDWD/SEJPA - Potable Reuse Feasibility Study
January 2015

Task No.	Initials	Trussell Technologies				Sub	Total
		RRT	RST	EYI	Cost	RMC	
		Hourly Billing Rate					
1	Status of Potable Reuse in California						\$ 17,232
1.1	Summary of Existing California Potable Reuse Projects	2	2	2	\$ 1,344		\$ 1,344
1.2	Summary of Potable Reuse Regulations	1	2	2	\$ 1,053		\$ 1,053
1.3	Discussion of Potable Reuse Terminology		1	2	\$ 530		\$ 530
1.4	Disussion of Institutional Constraints to Potable Reuse	1	1	2	\$ 821		\$ 821
1.5	Draft and Final Chapter 1	4	12	64	\$ 13,484		\$ 13,484
2	Ultimate Project						\$ 39,246
2.1	Limitations Identification	2	6	16	\$ 4,358	\$ 3,450	\$ 7,808
2.2	Ultimate Project Scenario Development	2	12	16	\$ 5,750	\$ 3,450	\$ 9,200
2.3	Long-term Implementation Strategy and Cost of Water Development		16	16	\$ 6,096	\$ 3,450	\$ 9,546
2.4	Draft and Final Chapter 2	4	24	40	\$ 12,692		\$ 12,692
3	Short-Term Potable Reuse Project						\$ 35,416
3.1	Collection of Baseline Assumptions		4	16	\$ 3,312	\$ 3,450	\$ 6,762
3.2	Short-Term Project Scenario Development	2	8	16	\$ 4,822	\$ 3,450	\$ 8,272
3.3	Implementation Strategy, Cost and Schedule Development		8	16	\$ 4,240	\$ 3,450	\$ 7,690
3.4	Draft and Final Chapter 3	4	24	40	\$ 12,692		\$ 12,692
4	<i>Facilities Plan Grant Application (Optional)</i>						\$ 11,500
4.1	<i>Draft and Final Facilities Planning Report Development</i>				\$ -	\$ 11,500	\$ 11,500
5	Public Meetings and Presentations						\$ 15,768
5.1	Public Meetings Preparation and Attendance		20	40	\$ 10,600		\$ 10,600
5.2	Internal Meetings Preparation and Attendance		12	16	\$ 5,168		\$ 5,168
6	Project Management and QA/QC						\$ 12,338
6.1	Meetings, Communications, Proj Management, QA/QC		24	30	\$ 10,038	\$ 2,300	\$ 12,338
TOTAL (with Optional Task 4)		22	176	334	\$ 97,000	\$ 34,500	\$ 131,500
TOTAL PROJECT without OPTIONAL Task 4		22	176	334	\$ 97,000	\$ 23,000	\$ 120,000

RRT Rhodes Trussell, Ph.D., P.E., BCEE
RST Shane Trussell, Ph.D., P.E., BCEE
EYI Eileen Idica, Ph.D., P.E.

Task Schedule

Task 1: Status of Potable Reuse in California

Existing California Potable Reuse Projects, Regulations, Terminology, Institutional Constraints
 Draft and Final Chapter 1

Task 2: Ultimate Project

Limitations Identification, Project Scenario Development, Implementation Strategy
 Draft and Final Chapter 2

Task 3: Near-Term Potable Reuse Project

Collection of Baseline Assumptions, Project Scenario Development, Implementation Strategy
 Draft and Final Chapter 3

Task 4: Facilities Plan Grant Application (Optional)

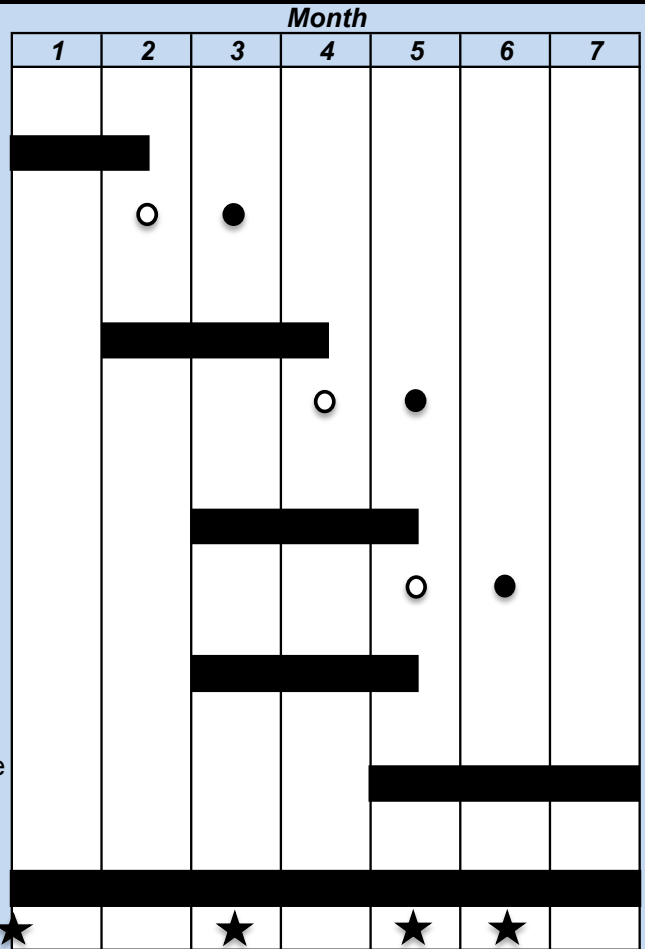
Application Development and Submittal

Task 5: Public Meetings and Presentations

3 Public Meetings and Presentations (exact dates to be determined by SFID/SDWD/SEJPA)

Task 6: Project Management and QA/QC

Project Coordination and QA/QC
 Kickoff Meeting and 3 Progress Meetings



ATTACHMENT 2

AGREEMENT BETWEEN SANTA FE IRRIGATION DISTRICT, SAN DIEGUITO WATER DISTRICT AND SAN ELIJO JOINT POWERS AUTHORITY REGARDING JOINTLY RETAINING AN ENGINEERING CONSULTANT FOR A POTABLE REUSE STUDY

THIS AGREEMENT TO RETAIN AN ENGINEERING CONSULTANT (“Agreement”) is entered into this ____ day of _____, 2015, (“Effective Date”) by and among the SANTA FE IRRIGATION DISTRICT (“SFID”) and SAN DIEGUITO WATER DISTRICT (“SDWD”), Districts operating under Water Code Section 20500, et seq. and SAN ELIJO JOINT POWERS AUTHORITY (“SEJPA”), a joint powers authority formed and operating pursuant to Government Code section 6500, et seq. (collectively referred to as “Parties” or individually as “Party”).

RECITALS

- A. SFID and SDWD currently purchase recycled water from SEJPA that is produced from the San Elijo Water Reclamation Facility and conveyed through SEJPA’s recycled water distribution system. Recycled water use is restricted based on its level of treatment and is primarily used for landscape irrigation.
- B. The Parties are interested in evaluating the joint development of a potable reuse project that would maximize recycled water use in the Parties’ service areas for the benefit of the Parties’ respective customers (“Project”). Potable reuse projects require higher levels of treatment and safeguards that enable an unrestricted water supply use. The Parties anticipate potential cost savings from the Project because the unrestricted use would allow distribution through the existing water supply infrastructure in lieu of expanding the recycled water distribution system into additional areas.
- C. Through this Agreement, the Parties desire to retain an engineering consultant (“Consultant”) to, among other things, analyze each Party’s facilities and create a comprehensive report (“Report”) studying the facilities’ interconnection, potential potable reuse supply volumes, how to maximize recycled treatment facilities, additional infrastructure requirements, institutional requirements, design criteria, cost estimates, regulatory requirements, any potential water quality or physical issues with the Project, and funding opportunities.
- D. The Parties intend for this Agreement to set forth the terms for procuring and contracting with an engineering consultant to prepare a report as further described herein.

AGREEMENT

NOW, THEREFORE, the Parties agree, as follows:

- 1. **Recitals Incorporated.** The foregoing recitals are incorporated herein by reference.
- 2. **Term.** The term of this Agreement is one (1) year from the Effective Date, unless otherwise agreed to in writing by the Parties.

3. **Lead For Retaining Consultant.** SFID will act as the lead for retaining the Consultant pursuant to SFID's relevant procurement requirements and the procedures stated in this Agreement. The Scope of Work and Fee for the Project are included as Exhibit A and B, respectively, and are hereby incorporated into this agreement. Any Engineering Services Agreement issued by SFID will include a pay-when-paid provision stating that SFID only pays SDWD's and SEJPA's shares of the charges after SFID receives their payments.
4. **Payment and Administration.** The compensation to be paid to the Consultant will be shared equally between the Parties. SFID will bill each SDWD and SEJPA for their respective shares, and each SDWD and SEJPA will pay said shares of the charges to SFID within 30 days of receipt of the bill from SFID. SFID will act as the administrator of the agreement with the Consultant at no charge to the other Parties, provided that SFID will have no obligation to advance funds to the Consultant on behalf of the other Parties for their share. SFID will administer the agreement with the Consultant as a convenience only and will assume no other responsibility under the agreement with the Consultant on behalf of the other Parties.
5. **Engineering Committee.** Each Party will designate one person from its agency to serve on an engineering committee ("Engineering Committee"). The Engineering Committee has met and developed Project objectives and the Scope of Work for the Project. The Engineering Committee will meet throughout the course of the Consultant's work, as needed, in order to facilitate the timely completion of the Project.
6. **Change Orders.** Any changes to the Consultant's Scope of Work and/or compensation, shall be reviewed and approved by the Engineering Committee, and any resultant increased costs will be shared equally by the Parties. SFID will process any required amendments to the Selected Consultant's agreement as a result of changes in the Scope of Work and/or compensation to the Selected Consultant.
7. **Miscellaneous Costs.** Any Party's out of pocket costs for travel, meetings, or supplemental work that are incurred by the staff, other consultants or Board members of the Parties shall be borne by each respective Party as their own costs in support of this Agreement and shall not be reimbursed by other Parties to this Agreement.
8. **Documents and Records.** The Report and any documents created by the consultant related to this Agreement shall be shared and owned equally amongst the Parties. The Report may be used by the Parties to apply for grant funding. SFID shall provide copies of all invoices, payments, and fund requests upon the request of a Party made to SFID's Administrative Services Manager. The Parties shall have the right to comment on these records and request corrections thereto, if necessary.
9. **Ability to Terminate Participation.** In the event that any Party to this Agreement notifies the other Parties in writing 30 days in advance of its intent to terminate participation in this Agreement, no refunds of any monies already paid will be reimbursed and the Party will have no further interest or right in this Agreement nor the work product created after the date that the Party terminates its participation. Any Party terminating its participation will pay for its share of costs for the work by the Selected

Consultant up to the date of termination. The remaining Parties agree to adjust their future cost sharing on an equal basis among the remaining Parties.

10. **Grant Funding Setoff.** Any grant funding received related to preparing the Report before, during, or after its completion will be credited equally to each Party so that the benefit is shared equally by the Parties.
11. **Entire Agreement; Amendment.** This Agreement contains the entire agreement of the Parties with respect to the subject matter hereof, and supersedes all prior negotiations, understandings and agreements. The Parties may agree in writing to amend this Agreement.
12. **Indemnity.** Each Party (“Indemnifying Party”) will indemnify, defend and hold each other Party, its officers, employees, agents, and representatives (“Indemnified Parties”) harmless from and against any liabilities, claims, causes of action, damage to property, personal injury, losses, costs (including costs of suit and attorneys’ fees and expenses) or demands of whatever nature, character, type of description, whether direct or indirect, known or unknown, existing or potential, or suspected or unsuspected resulting from the negligence or willful misconduct of the Indemnifying Party arising from the obligations stated in this Agreement, but excluding any claims resulting from the negligence or willful misconduct of the Indemnified Parties.
13. **Notice.** Any notice or instrument required to be given or delivered by this Agreement may be given or delivered by depositing the same in any United States Post Office, certified mail, return receipt requested, postage prepaid, addressed to:

Santa Fe Irrigation District
P.O. Box 409
Rancho Santa Fe, CA 92067-0409
Attn: General Manager

San Dieguito Water District
505 South Vulcan Avenue
Encinitas, CA 92024-3633
Attn: General Manager

San Elijo Joint Powers Authority
2695 Manchester Avenue
Cardiff by the Sea, CA 92007
Attn: General Manager

Notice and delivery shall be effective upon receipt thereof.

14. **Third Party Rights.** Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than the Parties.

15. **Severability.** The unenforceability, invalidity or illegality of any provision(s) of this Agreement shall not render the other provisions unenforceable, invalid or illegal.
16. **Construction; Captions.** The Parties or their agents have participated fully in the preparation of this Agreement, and the language of this Agreement shall be construed simply, according to its fair meaning, and not strictly for or against any Party. The captions of the various articles and paragraphs are for convenience and ease of reference only, and do not define, limit, augment, or describe the scope, content, or intent of this Agreement.
17. **Waiver.** No waiver of any default shall constitute a waiver of any other default or breach, whether of the same or other covenant or condition. No waiver, benefit, privilege, or service voluntarily given or performed by a Party shall give the other Party any contractual rights by custom, estoppel, or otherwise.
18. **Counterparts.** This Agreement may be signed in counterparts, each of which shall constitute an original.
19. **Survival.** All rights and obligations hereunder that by their nature are to be performed after any expiration or termination of this Agreement shall survive any such expiration or termination.

IN WITNESS WHEREOF, the Parties have caused this AGREEMENT TO RETAIN AN ENGINEERING CONSULTANT FOR A POTABLE REUSE STUDY to be executed by their duly authorized representatives to be effective on the day and year first written above.

SANTA FE IRRIGATION DISTRICT

By: _____

Michael Bardin, General Manager

SAN DIEGUITO WATER DISTRICT

By: _____

William O'Donnell, General Manager

SAN ELIJO JOINT POWERS AUTHORITY

By: _____

Michael Thornton, General Manager

SAN ELIJO JOINT POWERS AUTHORITY
MEMORANDUM

March 9, 2015

TO: Board of Directors
San Elijo Joint Powers Authority

FROM: General Manager

SUBJECT: CONSIDER APPROVAL OF PRELIMINARY DESIGN FOR RECYCLED
WATER PIPELINES

RECOMMENDATION

It is recommended that the Board of Directors:

1. Authorize the General Manager to execute an agreement with Kennedy/Jenks Consultants for an amount not to exceed \$52,970; and
2. Discuss and take action as appropriate.

BACKGROUND

In the late 1990's, the San Elijo Joint Powers Authority (SEJPA) designed and constructed a sub-regional recycled water utility that provides irrigation and industrial water to customers in the cities of Del Mar, Encinitas, and Solana Beach. The recycled water utility is operated in partnership with the local water districts and, since its commencement, has provided more than 5 billion gallons of water to homeowner associations, schools, parks, businesses, and other customers within these coastal communities. Recycled water is considered an important part of a diversified water portfolio as it is a locally produced, drought resistant, water supply that helps reduce the region's dependency on imported water.

DISCUSSION

During the planning phase of the recycled water system (1997), the SEJPA reached agreement with Caltrans to utilize their right-of-way corridors for the construction of some of the SEJPA's recycled water distribution pipelines. This approach reduced project costs, lessened pipeline construction within local streets, and minimized traffic delays and construction impacts to the local communities. However, one limitation to this design strategy was that Caltrans maintained ownership and control of the right-of-way. This obligates the SEJPA to relocate these pipelines (at its expense) if future freeway expansions required use of the right of way.

In 2014, Caltrans notified SEJPA that its North Coast Corridor (NCC) Program would likely require the SEJPA to relocate some of its recycled water pipelines within the Caltrans right of

way. The NCC Program includes a package of highway, rail, transit, bike/pedestrian, environmental and coastal access improvements along San Diego’s North Coast Corridor—a 27-mile stretch from La Jolla to Oceanside—over the next 30 years. Based on current planning, work on Phase I of the NCC Program will begin late 2015. Phase I includes the I-5 Express Lanes Project, which will extend the existing carpool lanes on I-5 to SR 78. Additional Phase I projects include several bike/pedestrian, environmental enhancement and rail improvement projects within Encinitas and Solana Beach. At the September 2014 SEJPA Board Meeting, Caltrans’ representatives presented preliminary information on the NCC Program and highlighted potential project impacts to the SEJPA.

SEJPA staff has met with Caltrans representatives on multiple occasions to discuss the specific pipelines in conflict with the NCC Program improvements. Figure 1 illustrates two pipeline sections that will require relocation.

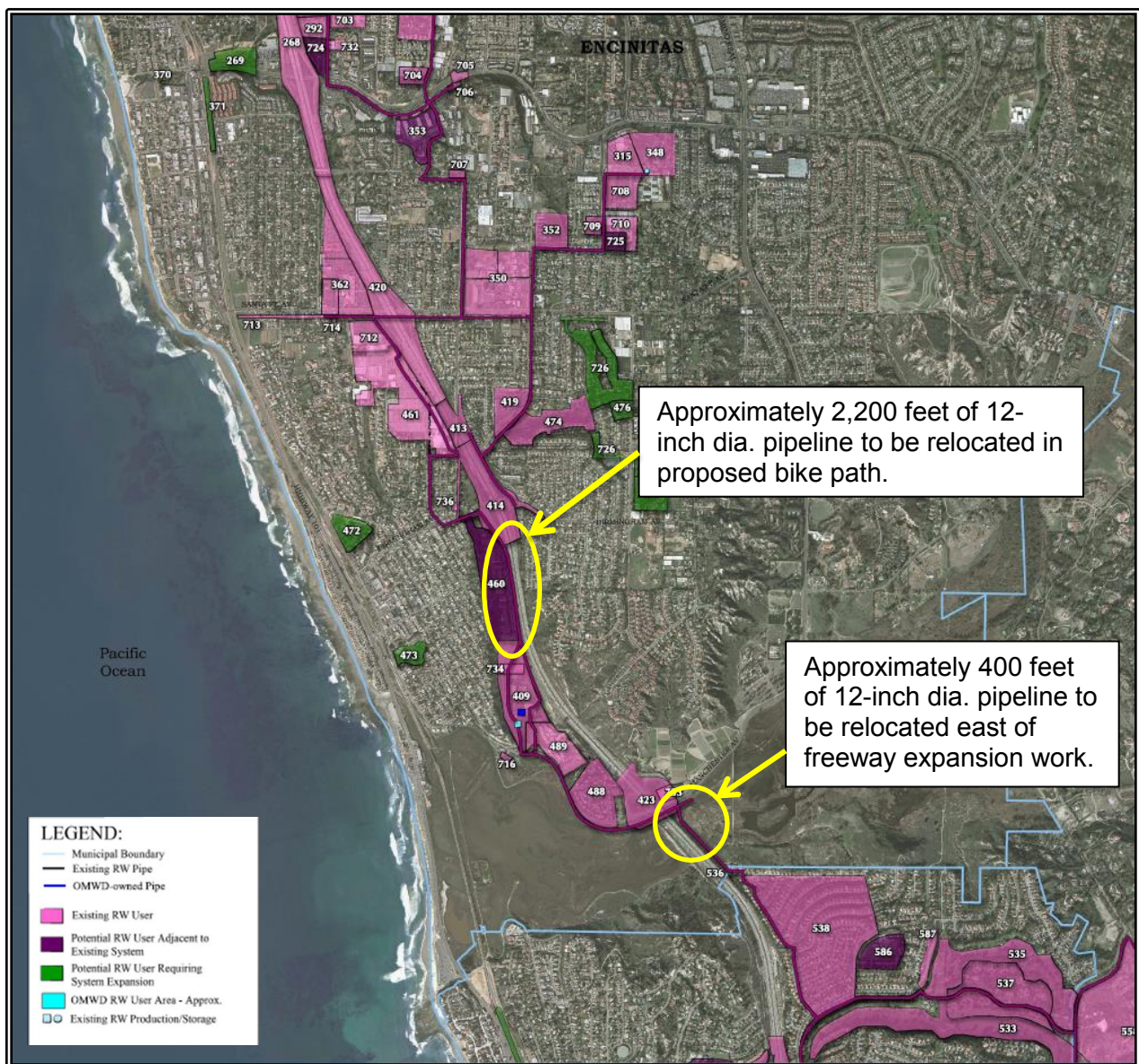


Figure 1 – Recycled water pipelines to be relocated due to Caltrans’ NCC Project

The SEJPA has received a fee estimate from Kennedy/Jenks Consultants for developing the preliminary design for the relocation of these pipeline sections. The preliminary design will analyze replacement alternatives, identify existing utilities that must be avoided, and provide recommended pipeline alignments. The preliminary design will be provided to Caltrans and other interested parties to gain concurrence, after which the project will be ready to move into final design and permitting. The fee for the preliminary design effort is \$29,200.

In discussing this project with the City of Encinitas, the SEJPA learned that the City is developing plans for Highway 101 streetscape improvements. The SEJPA has existing recycled water pipelines that are about 1/2 mile from the streetscape improvement project. Staff recommends including a new pipeline extension along Encinitas Boulevard from Saxony Street to Highway 101 as part of the preliminary design effort (Figure 2).



Figure 2 – Potential recycled water pipeline extension from Saxony Street to Highway 101 on Encinitas Blvd.

This pipeline extension would allow Cottonwood Creek Park, the Highway 101 streetscape project, and several existing commercial sites to use recycled water for landscape irrigation, as well as potentially serving one industrial cooling tower. The conversion of these sites to recycled water from potable water will save millions of gallons of potable water each year. In addition, the project could potentially qualify for grant funding to cover part of the project costs. The fee for the preliminary design of the Encinitas Blvd. pipeline extension is \$23,770, which would bring the total cost of the preliminary design to \$52,970.



Figure 3 – Cottonwood Creek Park



Figure 3 – Best Western Inn & Suites at Moonlight Beach is just one of several commercial sites that could benefit from the availability of recycled water for irrigation and industrial use.

FINANCIAL IMPACT

The proposed cost to develop the preliminary design is \$52,970. Adequate funds are available for this project from the Recycled Water Pipeline Assessment Project. Looking forward, staff will work with the consultant to develop a total project capital budget that will be presented to the Board as part of the FYE 2016 budget.

It is therefore recommended that the Board of Directors:

1. Authorize the General Manager to execute an agreement with Kennedy/Jenks Consultants for an amount not to exceed \$52,970; and
2. Discuss and take action as appropriate.

Respectfully submitted,



Michael T. Thornton, P.E.
General Manager

Attachment 1: Kennedy/Jenks Preliminary Design Proposal – February 2015

Kennedy/Jenks Consultants
Engineers & Scientists

9665 Granite Ridge Drive, Suite 210
San Diego, California 92123
858-676-3620
FAX: 858-292-1694

February 20, 2015

Mr. Michael T. Thornton, P.E.
General Manager
San Elijo Joint Powers Authority
2695 Manchester Avenue
Cardiff by the Sea, California 92007-1077

Subject: San Elijo Joint Powers Authority (SEJPA) 30% Design of Relocation of Recycled Water Pipelines in Caltrans Right-of-Way

Dear Mr. Thornton:

Kennedy/Jenks Consultants is pleased to work with the San Elijo Joint Powers Authority to assist in the predesign of the recycled waterline relocation from Caltrans' Right-of-Way. The North Coast Corridor project by Caltrans and SANDAG intends to widen the I-5 freeway. As a result, the work will be in conflict with several existing SEJPA recycled water lines. Kennedy/Jenks has recently attended the meetings between Caltrans, SEJPA, and the San Elijo Lagoon Conservancy, and we have assisted the SEJPA in evaluating the relocation alternatives at several locations. Kennedy/Jenks previously submitted our predesign conclusions in letter format addressed to SEJPA and Caltrans. At this time, we look forward to proceeding with these design decisions and preparing 30% level drawings illustrating the preferred relocation alignments. The following letter summarizes our project team, proposed scope of work, schedule and estimated fee.

Project Team

The proposed team includes professionals who have knowledge and previous experience with this project, and are experts in pipeline design. Our project team's key personnel include:

- Pat Huston, Principal in Charge
- Sarah Williams, Project Manager and Lead Project Engineer
- Timothy Waters, Staff Engineer
- Ed Barnhurst, Quality Assurance/ Quality Control
- Right of Way Engineering Services, Surveying

Mr. Michael T. Thornton, P.E.
San Elijo Joint Powers Authority
28 January 2015
Page 2

Scope of Work

The following is a scope of work to provide professional engineering services for the 30% design of the recycled water pipeline relocations. This scope of work builds on the previous design alternative evaluation letters prepared by Kennedy/Jenks.

Task 1 – Project Management

Task 1.1 Project Meetings

Kennedy/Jenks' project team will hold (2) project meetings with SEJPA staff during the 30% design phase. The meetings are anticipated to address the following:

- (1) Progress meeting to review initial drawings
- (1) 30% Submittal Comment Review Meeting

Kennedy/Jenks will prepare an agenda for each meeting and will distribute minutes to each of the meeting participants.

Kennedy/ Jenks understands that extensive coordination will need to take place with several different agencies including U.S. Army Corps of Engineers (USACOE), U.S. Fish and Wildlife (USFWS), California Dept. of Fish and Wildlife (CDFW), Regional Water Quality Control Board (RWQCB), and California Coastal Commission (CCC) throughout the predesign process. We will continue to attend monthly meetings (3) to coordinate with these agencies during the 30% design.

- (3) Agency Coordination Meetings

Task 1.2 – Quality Assurance/ Quality Control (QA/QC)

Kennedy/Jenks will provide QA/QC review of the 30% design consistent with Kennedy/Jenks' policies as outlined in our QA/QC & Quality Management Manual. Our QA/QC and quality management procedures establish and maintain a structure for providing adequate reviews of all work products and adherence to industry design standards. The quality reviewer will be Kennedy/Jenks' pipeline specialist, Ed Barnhurst, who has over 30 years of experience in pipeline design. Specific QA/QC tasks will include:

- Review design criteria as set forth in previous Kennedy/Jenks evaluation letters
- Review of 30% design draft drawings for quality and incorporation of design criteria

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Task 1.3 – Project Management

Kennedy/Jenks will conduct management of the project including scheduling reviews, budget control, invoice preparation and coordination with SEJPA. Sarah Williams, Kennedy/Jenks project manager will review the status of the project with San Elijo JPA’s project manager on a monthly basis. A monthly status report will be provided, including an update on the status of the project budget, and an updated project Gantt chart schedule.

Task 2 – Project Investigations

Task 2.1 – Survey

Kennedy/Jenks has partnered with Right-of-Way Engineering Services to obtain survey and utility data for the new recycled water pipeline which have not already been provided in Caltrans’ survey. The area of survey will include approximately 100’ wide stretch along Encinitas Blvd from just east of the I-5 Freeway, going west to the end of B Street, Approx 3,750 linear feet. Right-of-Way will perform field survey tying into existing record monumentation. Site topography will be provided. A CAD file will be generated outlining the project property lines, rights-of-way, and site topography. The CAD file will also display all visible surface utilities within the mapping limits, to include all existing sewer manholes (rim elevation, invert, pipe sizes and types), catch basins, existing utility mark-outs, water, gas, and telephone. It is assumed that all other areas besides Encinitas Blvd corridor have adequate survey from Caltrans to complete a 30% design.

Task 3 – Preliminary Design

Task 3.1 - Preparation of 30% Design Drawings

Kennedy/Jenks will prepare the 30% Design Drawings which will include plans covering four areas of interest as shown in the table below. The prescribed design solution in each area has been determined from previous investigation conducted by Kennedy/Jenks.

Area of Interest - Concern	Proposed Design Solution
<p>South of Manchester RW Relocation – The extension of the I-5 bridge across the San Elijo Lagoon will result in a portion of the existing 12” PVC pipe to be nearly exposed for a length of approximately 100’.</p>	<p>Approximately 350 linear feet of new 12” PVC pipe will be installed in order to achieve enough cover over the pipeline for protection from live loads. This solution has the added advantage of replacing an aging section of ductile iron pipe which may be in a deteriorated condition due to corrosive soils.</p>
<p>Manchester RW Relocation – Caltrans anticipates widening Manchester east of the I-5 freeway. This widening is anticipated to</p>	<p>Kennedy/Jenks will obtain final widening and grading plans for Manchester Ave from Caltrans. It is anticipated that up to 50’ of new</p>

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<p>expose a section of recycled water pipe serving Olivenhaim pump station.</p>	<p>recycled water line may need to be relocated in order to avoid exposure.</p>
<p>Bike Path Alignment RW Relocation – Caltrans plans to widen the I-5 freeway which will result in additional fill being placed on top of an existing recycled waterline along Carol View Drive between Birmingham and the southern end of Carol View Drive.</p>	<p>Kennedy/Jenks previously performed dead load analysis on this pipe and found the dead loads to be unsuitable for the pipe in its current location. Additionally, the additional fill over the pipe would create accessibility issues. The desired design solution is to build a new recycled waterline over the existing line, along the same horizontal alignment with three feet of cover. The pipe will then be connected to the existing pipe at each end, minimizing shut down time. Alignment is approx. 2,500 linear feet.</p>
<p>Encinitas Blvd New RW – San Elijo Joint Powers Authority anticipates building a new 6” recycled waterline across I-5 freeway at Encinitas Blvd in order to provide additional recycled water service.</p>	<p>Kennedy/Jenks will obtain new survey for this area of Encinitas Blvd. A new 6” PVC recycled water line will be designed to connect to an existing 12” line in Encinitas Blvd, cross I-5, and continue along Encinitas Blvd to Moonlight State Beach, terminating at the end of B Street. It is assumed that the new pipeline will cross the I-5 freeway within the existing bridge. Alignment is approx. 4,000 linear feet.</p>

Anticipated list of 30% drawings is as follows:

C-1	Overall Key Plan
C-2	South of Manchester RW Relocation – Plan and Profile
C-3	Manchester RW Relocation – Plan and Profile
C-4	Bike Path Alignment RW Relocation - Plan and Profile 1
C-5	Bike Path Alignment RW Relocation - Plan and Profile 2
C-6	Bike Path Alignment RW Relocation - Plan and Profile 3
C-7	Bike Path Alignment RW Relocation - Plan and Profile 4

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C-8	Encinitas Blvd New RW – Plan and Profile 1
C-9	Encinitas Blvd New RW– Plan and Profile 2

The interim review set will be provided in electronic PDF format. The final deliverable will include five (5) sets of the 30% design drawings on 11"x17", and an opinion of probable construction cost (Class 4).

Proposed Fee Estimate

Kennedy/Jenks proposes to provide the above described scope of services on a time and materials basis in accordance with schedule of charges per existing Advanced Water Treatment Facility contract (updated July 16, 2014) for an estimated fee of \$52,970. We will not exceed this budget without prior authorization by SEJPA.

Proposed Project Schedule

Kennedy/ Jenks is prepared to proceed with work on this project immediately following a notice to proceed. Assuming a notice to proceed date of March 16, Kennedy/Jenks can have the 30% design submittal prepared for your review and comment by April 27, 2015. The 30% design drawings will be delivered to SEJPA by May 28, 2015. The attached Gantt chart summarizes the envisioned project schedule.

Kennedy/Jenks hopes to perform this work in conjunction with the San Elijo Preliminary Design of Land Outfall Replacement project. Our staff is committed to providing both projects on a concurrent schedule with high quality results. By designing both the outfall project and the recycled waterline relocation project, Kennedy/Jenks will minimize workloads on SEJPA staff while maximizing efficiencies with agency coordination.

We are confident that the Kennedy/Jenks team can provide all services as needed throughout this dynamic predesign phase. Should you have any questions regarding this proposal or would like to request additional information, please do not hesitate to contact me.

Very truly yours,

KENNEDY/JENKS CONSULTANTS



Patrick T. Huston, P.E.
Vice President

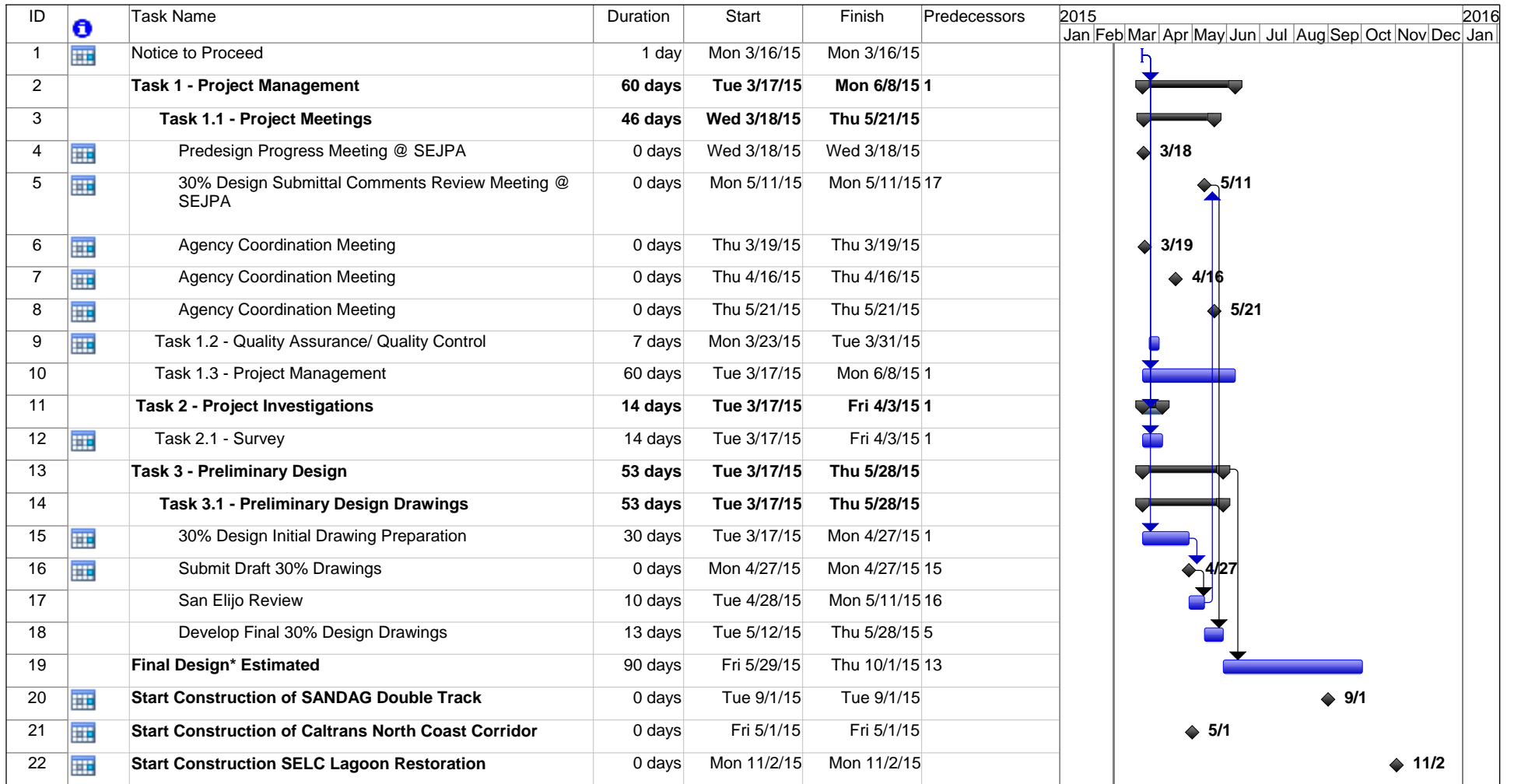
Enclosure



















Proposal Fee Estimate

Kennedy/Jenks Consultants

CLIENT Name: San Elijo Joint Powers Authority
 PROJECT Description: 30% Design of Recycled Waterline Relocation
 Proposal/Job Number: _____ Date: 1/28/2015

July 16, 2014 Rates	Eng-Sci-9	Eng-Sci-8	Eng-Sci-7	Eng-Sci-6	Eng-Sci-5	Eng-Sci-4	Eng-Sci-3	Eng-Sci-2	CAD Technician	Project Admin.	Admin. Assist.	Total	KJ Labor	Total Subs	Total Expenses	Total Labor + Subs + Expenses
Classification:												Hours	Fees	Fees		Fees
Hourly Rate:	\$245	\$240	\$230	\$205	\$185	\$170	\$155	\$135	\$110	\$100	\$85					
Task 1 - Project Management																
Task 1.1 - Project Meetings				16							4	20	\$3,620	\$0	\$365	\$3,985
Task 1.2 - Quality Assurance/ Quality Control	2	8		8							4	22	\$4,390	\$0	\$396	\$4,786
Task 1.3 - Project Management	4			8							16	28	\$3,980	\$0	\$379	\$4,359
Task 1 - Subtotal	6	8	0	32	0	0	0	0	0	0	24	70	\$11,990	\$0	\$1,140	\$13,130
Task 2 - Project Investigations																\$0
Task 2.1 - Survey				4			8				4	16	\$2,400	\$17,140	\$206	\$19,746
Task 2 - Subtotal	0	0	0	4	0	0	8	0	0	0	4	16	\$2,400	\$17,140	\$206	\$19,746
Task 3 - Preliminary Design																
Task 3.1 - Preliminary Design Drawings		2		20			30		80		4	136	\$18,370	\$0	\$1,725	\$20,095
Task 3 - Subtotal	0	2	0	20	0	0	30	0	80	0	4	152	\$18,370	\$0	\$1,725	\$20,095
All Phases Total (Excluding Optional Tasks)	6	10	0	56	0	0	38	0	80	0	32	222	\$32,760	\$17,140	\$3,070	\$52,970



Project: Schedule Date: Thu 2/19/15	Task		External Milestone		Manual Summary Rollup	
	Split		Inactive Task		Manual Summary	
	Milestone		Inactive Milestone		Start-only	
	Summary		Inactive Summary		Finish-only	
	Project Summary		Manual Task		Progress	
	External Tasks		Duration-only		Deadline	

SAN ELIJO JOINT POWERS AUTHORITY
MEMORANDUM

March 9, 2015

TO: Board of Directors
San Elijo Joint Powers Authority

FROM: General Manager

SUBJECT: VILLAGE PARK RECYCLED WATER PROJECT UPDATE

RECOMMENDATION

It is recommended that the Board of Directors:

1. Discuss and take action as appropriate.

BACKGROUND

The San Elijo Joint Powers Authority (SEJPA) owns and operates the San Elijo Water Reclamation Facility (SEWRF), which has the capacity to produce approximately 3 million gallons per day (MGD) of recycled water from collected and treated wastewater. The recycled water is then wholesaled to four water purveyors; Santa Fe Irrigation District (SFID), San Dieguito Water District (SDWD), Olivenhain Municipal Water District (OMWD) and the City of Del Mar; and also sold directly to the Encinitas Ranch Golf Authority through an interruptible service agreement.

At the October 2013 SEJPA Board meeting, the General Manager presented opportunities for expanding the recycled water program with our water district partners. The staff report highlighted several projects that had near term development potential. The General Manager provided the Board a Letter of Intent for expanding recycled water sales to both OMWD and SFID. The Board of Directors provided direction to the General Manager to move forward with discussion for expanding recycled water deliveries.

At the July 2014 SEJPA Board meeting, OMWD proposed the expansion of recycled water service to the Village Park community of the City of Encinitas and the Board authorized the General Manager to enter into agreements to sell additional water to OMWD and participate in the construction of infrastructure necessary to serve the new project.

The Village Park project will include more than 7 miles of new recycled water pipelines, the conversion of an existing potable water reservoir to recycled water storage, and the construction of a new water pressure boosting station. The project will provide recycled water for landscape irrigation for streetscape, greenbelts, and several schools (Figure 1). The recycled water for this project will be produced at the San Elijo Water Reclamation Facility. It is anticipated that the project will ultimately conserve 90 million gallons of potable water per year by converting existing irrigation systems to recycled water.



FIGURE 1

DISCUSSION

OMWD received six construction bids for the Village Park project, which were publicly opened on January 22, 2015. The construction bids were reviewed by SEJPA and OMWD. Two line-items in the bid schedule were deleted due to high bid price. On February 11, 2015, the OMWD Board of Directors approved a construction contract with SC Valley in the amount of \$7,966,800. The cost for the SEJPA's element of the Village Park Project is \$1,032,250 of the \$7,966,800 construction contract. This cost is slightly higher than the estimated project cost provided to the SEJPA Board at the July 2014 Board meeting.

FINANCIAL IMPACT

The SEJPA budget for the Village Park project is \$1,200,000. The construction bid for the SEJPA's element of the Village Park Project is \$1,032,250. OMWD is planning to rebid one of the deleted elements of the original construction schedule. The SEJPA has a budget cost of \$30,000 for this work, which is expected to increase the construction cost to \$1,062,250.

Engineering and planning for the project is expected to be completed at \$95,000. Construction management and construction contingency are budgeted at 5% and 10% of construction cost, respectively. Based on these projected costs, the project is tracking to be completed at 9.7% over the original budget of \$1.2 million.

Village Park Project Budget			
Engineering/Planning	\$	95,000	
Construction	\$	1,062,250	
Construction Management	\$	53,113	5% of Construction
Contingency	\$	106,225	10% of Construction
TOTAL	\$	1,316,588	

The net cost to the SEJPA is expected to be \$988,588 as a result of the success in obtaining \$328,000 of Proposition 84, IRWM grant funding.

The SEJPA has funded \$95,000 of the project to date. This was funded from the recycled water unrestricted funds. Based on the new Project Budget of \$1,316,588 less the Proposition 84, IRWM grant funding of \$328,000 and the \$95,000 funded to date, there is a cost of \$893,588 left to be funded.

Staff is seeking a low interest loan to fund the remaining project costs. The value of the loan is expected to be on the order of \$900,000. However, the SEJPA has other infrastructure needs that the Board may want to consider funding with a single loan or bond issuance. Staff expects to provide the Board with a preliminary infrastructure financing plan at the April Board meeting.

It is therefore recommended that the Board of Directors:

1. Discuss and take action as appropriate.

Respectfully submitted,



Michael T. Thornton, P.E.
General Manager