



**AGENDA –ADJOURNED REGULAR MEETING
COLTON/SAN BERNARDINO REGIONAL TERTIARY
TREATMENT AND WATER RECLAMATION AUTHORITY**

at the

**SAN BERNARDINO WATER RECLAMATION PLANT
399 CHANDLER PLACE
SAN BERNARDINO, CALIFORNIA**

3:00 P.M., WEDNESDAY, JULY 2, 2025

THE AUTHORITY ENCOURAGES THE PUBLIC TO VIEW THIS MEETING ONLINE. THE MEETING WILL BE LIVE STREAMED VIA YOUTUBE AT:
<https://bit.ly/YouTubeSBWater>

MEMBERS OF THE PUBLIC WHO WISH TO COMMENT ON MATTERS BEFORE THE AUTHORITY MAY PARTICIPATE IN THE FOLLOWING WAYS:

1. IF ATTENDING IN PERSON, MAY PROVIDE COMMENT AT THE APPROPRIATE TIME DICTATED BY THE AGENDA AND BOARD PRESIDENT;
2. COMMENTS AND CONTACT INFORMATION MAY BE E-MAILED TO Comments@sbmwd.org BY 2:00 P.M. THE DAY OF THE SCHEDULED MEETING TO BE INCLUDED IN THE WRITTEN RECORD.

1. CALL TO ORDER: _____ a.m./p.m.

ROLL CALL:

DIRECTORS PRESENT: _____

DIRECTORS ABSENT: _____

OTHERS: _____

2. **PUBLIC COMMENTS:** Members of the public may address the Authority on matters within its jurisdiction or may address the Authority during the consideration of a particular item on the agenda.

3. **ADDITIONS TO THE AGENDA:** (if any) in accordance with Section 54954.2 (b)(2) of the Government Code (Brown Act), a two-thirds vote (or a unanimous vote if less than two-thirds are present) is required to add an item for action provided that there is a need to take immediate action and that the need for action came to the attention of the agency after the agenda was posted.

MOTION:_____SECONDED:_____

4. **APPROVAL OF THE MINUTES:** It is recommended that the minutes for the Adjourned Regular Meeting of April 2, 2025, be approved.

MOTION:_____SECONDED:_____

5. **RIX OPERATIONAL/MAINTENANCE REPORT MARCH 16, 2025 TO JUNE 15, 2025** (INFORMATION ITEM – RECEIVE AND FILE).

6. **EXPENDITURES REPORT – THROUGH JUNE 15, 2025** (INFORMATION ITEM – RECEIVE AND FILE).

7. **MONTHLY COMPLIANCE REPORT – MARCH 1, 2025 – MAY 31, 2025** (INFORMATION ITEM – RECEIVE AND FILE).

8. **CHANGE THE OCTOBER 2025 MEETING DATE FOR THE COLTON/SAN BERNARDINO REGIONAL TERTIARY TREATMENT AND WATER RECLAMATION AUTHORITY:** The RIX JPA Board President will be at a WEFTEC conference on the next scheduled Adjourned Regular Colton/San Bernardino Regional Tertiary Treatment and Water Reclamation Authority (RIX JPA) meeting on Wednesday, October 1, 2025.

MOTION: Approve changing the RIX JPA meeting date of Wednesday, October 1, 2025 to Wednesday, October 8, 2025;

Or

Cancel the RIX JPA meeting date of Wednesday, October 1, 2025 and adjourn the July 2, 2025 Board meeting to the next scheduled regular RIX JPA meeting on January 7, 2026.

MOTION:_____SECONDED:_____

9. **ELECTION OF OFFICERS:** In accordance with the Joint Exercise of Powers Agreement between the City of Colton and the City of San Bernardino, Article VI – Officers; Duties; Bonds, Section 6.6, it is required that the Board of Directors appoint a Board President, Vice-President, and Secretary-Treasurer for a two-year term.

The last election of officers occurred on October 4, 2023, where Brian Dickinson was elected Vice-President. In 2024, there were changes in representation from the City of Colton, and the Vice-President position became vacant. The current roster of officers is:

Miguel Guerrero, President
Vacant, Vice-President
Wayne Hendrix, Secretary-Treasurer

MOTION: Elect a Vice-President in accordance with the Joint Exercise of Powers Agreement, until the next election in October 2025.

MOTION:_____SECONDED:_____

10. **BUDGET WORKSHOP AND ADOPTION OF RIX OPERATIONS AND MAINTENANCE BUDGET AND CAPITAL IMPROVEMENT PLAN BUDGET FOR FISCAL YEAR 2025-26:** In accordance with Article VIII (General Administrative Budget) of the Joint Powers Agreement, dated August 2, 1994, the Operations and Maintenance Budget is to be adopted annually by the Board of Directors. The Colton/San Bernardino Regional Tertiary Treatment and Water Reclamation Authority (RIX) budget is taken to the RIX Board in July because the City of Colton and San Bernardino Municipal Water Department (SBMWD) adopted their respective budgets after April.

Staff prepared the proposed Operations and Maintenance Budget and Capital Improvement Plan Budget for FY 2025-26. This budget was approved by the Department's Water Board on June 10, 2025.

Funding for the RIX budget is shared between SBMWD and the City of Colton following the terms outlined in the JPA.

MOTION: Approve and deviate from the JPA conditions of Article VIII, conduct a workshop on July 2, 2025, to review the proposed 2025-26 combined budgets; and adopt the proposed budget.

MOTION:_____SECONDED:_____

11. **REPORTS**

12. **ADJOURNMENT:** The meeting adjourned at _____ a.m./p.m. It is recommended that the meeting be adjourned to Wednesday, October 1, 2025 at 3:00 p.m.

***MINUTES OF THE ADJOURNED REGULAR MEETING
OF THE COLTON/SAN BERNARDINO REGIONAL TERTIARY
TREATMENT AND WATER RECLAMATION AUTHORITY
BOARD OF DIRECTORS***

April 2, 2025

The Adjourned Regular meeting of the Colton/San Bernardino Regional Tertiary Treatment and Water Reclamation Authority Board of Directors was called to order on Wednesday, April 2, 2025, at 3:13 p.m. by President Guerrero.

1. **ROLL CALL:** Roll call was taken by Recording Secretary Amy Smith with the following being present: Miguel Guerrero, President; Wayne Hendrix, Director; and John Echevarria, Director.

The City of Colton was in the process of appointing an additional Director to represent Colton.

2. **PUBLIC COMMENTS:** President Guerrero invited members of the public to address the Board on matters within its jurisdiction. There were no public comments.
3. **ADDITIONS TO THE AGENDA:** President asked if there were any additions to the agenda. There being none, the matter was closed.
4. **APPROVAL OF THE MINUTES:** The minutes of the Regular Meeting of July 3, 2024, were presented for approval.

The following motion was made by Director Hendrix and seconded by President Guerrero.

MOVED to approve the minutes of the Regular Meeting of July 3, 2024.

Motion passed.

5. **RIX OPERATIONAL/MAINTENANCE REPORT DECEMBER 16, 2024 TO MARCH 15, 2025** (INFORMATION ITEM – RECEIVED AND FILED).
6. **EXPENDITURES REPORT – THROUGH MARCH 25, 2025** (INFORMATION ITEM – RECEIVED AND FILED).
7. **MONTHLY COMPLIANCE REPORT – JUNE 26, 2024 – FEBRUARY 28, 2025** (INFORMATION ITEM – RECEIVED AND FILED).
8. **REPORTS:** President Guerrero welcomed Director Echevarria to the Colton/San Bernardino Regional Tertiary Treatment and Water Reclamation Authority JPA.
9. **ADJOURNMENT:** The meeting adjourned at 3:33 p.m. until Wednesday, July 2, 2025 at 3:00 p.m. at the San Bernardino Water Reclamation Plant or via a teleconference meeting.

APPROVED: _____ DATE: _____
Miguel Guerrero, President

**CITY OF SAN BERNARDINO
MUNICIPAL WATER DEPARTMENT
INTEROFFICE MEMORANDUM**

Received 06-24-25

RIX JPA AS
Board President

Miguel Guerrero
Miguel Guerrero (Jun 24, 2025 15:27 PDT)

TO: Kevin Stewart P.E., Director of Water Reclamation

FROM: Ryan Nielsen, Water Reclamation RIX Supervisor

SUBJECT: **RIX FACILITY OPERATION/MAINTENANCE REPORT,
March 16, 2025, to June 15, 2025**

DATE: June 15, 2025

COPIES: Hanford, Mendenhall, Shepardson, Razo, 'N'Drive

This report provides relevant information regarding the operation and maintenance of the Rapid Infiltration and Extraction (RIX) Facility. Included are the data on flows, percolation basin performance, process control information, sampling events, permit compliance, and operations and maintenance activities.

From March 16, 2025, to June 15, 2025 (91 days), the RIX facility received a total of 1768 million gallons (MG). The basins received a total flow of 1642 MG; 127 MG of water were processed through the facility's conventional filters.



Monthly Flows (Influent/Discharge/Over-Extraction)
March 16, 2025, to June 15, 2025

Influent (mgd)	Discharge (mgd)	Extraction (mgd)	Over Extraction (%)
19.22	20.71	19.34	8.6

Colton (mgd)	Colton (%)	San Bernardino (mgd)	San Bernardino (%)
4.94	25.78	14.24	74.21

Tertiary Feed (mg)	Tertiary Discharge (mg)	Tertiary Reject (mg)	Basin Feed (mgd)
129.76	126.52	3.24	17.81

- Over extraction = (Basin feed MGD - (plant discharge MGD - tertiary discharge MGD))/basin feed MGD*100

Monthly Facility Percolation Rates:

January Monthly Comparison

Year	2018	2019	2020	2021	2022	2023	2024	2025
Percolation Average	25.08	26.73	26.0	25.88	24.55	24.37	20.86	17.14
Basins in Service	4	4	4	4	5	6	6	5

February Monthly Comparison

Year	2018	2019	2020	2021	2022	2023	2024	2025
Percolation Average	24.68	24.74	25.48	24.81	24.95	22.09*	22.26*	16.25*
Basins in Service	5	5	3	5	5	5	5.4	5

March Monthly Comparison

Year	2018	2019	2020	2021	2022	2023	2024	2025
Percolation Average	24.75	25.80	24.29	24.45	25.18	18.34*	22.51	13.46*
Basins in Service	5	5	3	5	5	4.6	4.8	4

April Monthly Comparison

Year	2018	2019	2020	2021	2022	2023	2024	2025
Percolation Average	24.70	25.37	25.94	25.92	25.38	24.22	20.17	16.03
Basins in Service	5	4	4	5	5	4.9	4	5

May Monthly Comparison

Year	2018	2019	2020	2021	2022	2023	2024	2025
Percolation Average	26.12	25.57	24.30	26.03	26.32	24.93	20.00	17.76
Basins in Service	5	4	3	4	4	4.7	5	5

June Monthly Comparison

Year	2018	2019	2020	2021	2022	2023	2024	2025
Percolation Average	25.88	25.73	24.90	25.42	25.96	23.92	18.12	17.54
Basins in Service	6	4	3	4	4	4.7	4	5

July Monthly Comparison

Year	2017	2018	2019	2020	2021	2022	2023	2024
Percolation Average	28.56	25.76	26.68	24.33	26.10	25.97	24.83	19.27
Basins in Service	3	5	3	4	4	4	4.5	5

August Monthly Comparison

Year	2017	2018	2019	2020	2021	2022	2023	2024
Percolation Average	29.53	27.07	27.71	25.22	26.14	26.40	26.01	19.82
Basins in Service	3	4	3	4	3	3	5.1	4

September Monthly Comparison

Year	2017	2018	2019	2020	2021	2022	2023	2024
Percolation Average	27.91	26.71	27.79	25.22	25.83	25.79	25.80	20.07
Basins in Service	3	3	3	3	3	3	5	4

October Monthly Comparison

Year	2017	2018	2019	2020	2021	2022	2023	2024
Percolation Average	28.94	26.48	25.12	25.22	24.76	26.27	26.57	20.33
Basins in Service	4	3	4	3	3.7	3.7	4.7	4

November Monthly Comparison

Year	2017	2018	2019	2020	2021	2022	2023	2024
Percolation Average	26.64	26.46	25.75	25.34	25.27	25.80	25.77	19.71
Basins in Service	4	3	5	3	3.9	4.2	4.4	4

December Monthly Comparison

Year	2017	2018	2019	2020	2021	2022	2023	2024
Percolation Average	26.00	26.4	25.64	25.39	25.74	24.99	22.03*	17.97
Basins in Service	4	3	5	4	5	4.5	5	5

***ADF ONLINE**

March 1 to 31, 2024

Basin	Average Percolation (mgd)	Average Percolation (ft/day)	Total Days in Service (No.)
1A	1.49	1.56	14.00
1B	1.90	1.99	15.00
2A	2.77	1.91	19.00
2B	1.70	2.39	17.00
3A	2.18	2.19	17.00
3B	1.90	1.82	14.00
4A	2.70	2.85	9.00
4B	2.91	1.44	11.00
5A	5.32	2.64	18.00
5B	4.05	1.92	15.00

April 1 to 30, 2025

Basin	Average Percolation (mgd)	Average Percolation (ft/day)	Total Days in Service (No.)
1A	1.66	1.74	18.00
1B	2.13	2.23	15.00
2A	2.64	1.81	17.00
2B	1.81	2.54	15.00
3A	2.49	2.51	15.00
3B	2.10	2.01	16.00
4A	2.99	3.15	17.00
4B	3.14	1.55	14.00
5A	5.61	2.79	17.00
5B	4.27	2.02	17.00

May 1 to 31, 2025

Basin	Average Percolation (mgd)	Average Percolation (ft/day)	Total Days in Service (No.)
1A	1.78	1.86	17.00
1B	2.30	2.41	19.00
2A	2.94	2.03	18.00
2B	1.84	2.58	18.00
3A	2.15	2.17	18.00
3B	2.33	2.24	19.00
4A	2.89	3.05	16.00
4B	3.37	1.66	20.00
5A	5.48	2.72	20.00
5B	4.26	2.02	16.00

June 1 to 15, 2025

Basin	Average Percolation (mgd)	Average Percolation (ft/day)	Total Days in Service (No.)
1A	1.90	2.00	8.00
1B	2.35	2.46	9.00
2A	2.83	1.95	8.00
2B	1.73	2.43	9.00
3A	2.47	2.48	8.00
3B	2.12	2.03	9.00
4A	3.23	3.41	7.00
4B	3.61	1.78	9.00
5A	4.68	2.32	7.00
5B	4.31	2.04	10.00

Monthly RIX Electrical Costs

Year	January	February	March	April	May	June	July	August	September	October	November	December
2024	credit	\$27,404.40	\$24,453.60	\$48,481.20	\$88,761.60	\$64,641.60	\$45,828.00	\$46,069.20	\$51,616.80	\$44,380.80	\$43,898.40	\$40,521.60
KWh		481,500	322,500	301,500	250,500	402,000	285,000	286,500	321,000	276,000	273,000	252,000
2023	\$31,040.10	\$28,652.40	\$39,453.90	\$69,224.40	\$52,099.20	\$51,858.00	\$58,370.40	\$59,817.60	\$64,400.40	\$60,058.80	\$64,159.20	\$26,923.20
KWh	409,500	243,000	520,500	430,500	324,000	279,300	363,000	372,000	400,500	373,500	399,000	354,000
2022	\$30,812.70	\$27,629.10	\$25,127.70	\$31,267.50	\$26,151.00	\$27,174.30	\$29,220.90	\$28,197.60	\$29,220.90	\$28,879.80	\$27,060.60	\$26,151.00
KWh	406,500	364,500	331,500	412,500	345,000	358,500	385,500	320,700	336,900	381,000	357,000	345,000
2021	\$29,448.30	\$30,130.50	\$29,107.20	\$32,177.10	\$27,742.80	\$31,949.70	\$31,153.80	\$31,267.50	\$29,562.00	\$30,244.20	\$30,699.00	\$28,993.50
KWh	388,500	397,500	384,000	424,500	366,000	421,500	411,000	412,500	390,000	399,000	405,000	382,500
2020	\$31,381.20	\$29,675.70	\$30,585.30	\$31,040.10	\$23,422.20	\$32,518.20	\$31,494.90	\$28,538.70	\$29,675.70	\$31,494.90	\$32,973.00	\$34,223.70
KWh	414,000	391,500	483,000	409,500	309,000	429,000	415,500	376,500	391,500	415,500	435,000	451,500
2019	\$30,694.95	\$32,857.11	\$24,783.33	\$27,511.77	\$27,739.14	\$28,993.50	\$29,334.60	\$32,859.30	\$30,357.90	\$29,334.60	\$35,701.80	\$31,494.90
KWh	405,000	499,500	327,000	363,000	366,000	382,500	387,000	433,500	400,500	387,000	471,000	183,300
2018	\$39,448.70	\$38,539.22	\$34,446.56	\$44,450.84	\$28,762.31	\$38,766.59	\$38,539.22	\$39,789.75	\$40,471.86	\$33,878.13	\$31,718.12	\$28,421.25
KWh	520,500	508,500	454,500	586,500	447,000	511,500	508,500	525,000	534,000	447,000	418,500	375,000
2017	\$39,562.38	\$39,562.38	\$35,356.04	\$44,450.84	\$40,585.55	\$42,177.14	\$43,541.36	\$43,313.99	\$43,086.62	\$42,745.56	\$45,701.37	\$38,539.22
KWh	522,000	522,000	466,500	586,500	535,500	556,500	574,500	571,500	568,500	564,000	603,000	508,500
2016	\$38,880.27	\$40,812.92	\$37,288.68	\$37,743.42	\$37,516.05	\$33,878.13	\$46,042.43	\$40,471.86	\$34,179.59	\$41,836.08	\$42,404.51	\$40,585.55
KWh	513,000	538,500	492,000	498,000	495,000	447,000	607,500	534,000	541,500	552,000	559,500	535,500
2015	\$40,471.86	\$33,309.71	\$28,421.25	\$38,880.27	\$30,353.90	\$35,469.72	\$40,699.23	\$42,631.88	\$45,587.69	\$44,905.58	\$40,471.86	\$49,680.35
KWh	534,000	439,500	375,000	513,000	400,500	468,500	537,000	562,500	601,500	592,500	534,000	655,500
2014	\$47,747.70	\$48,657.18	\$43,313.99	\$46,951.91	\$41,836.08	\$42,745.56	\$33,082.34	\$39,107.64	\$36,038.15	\$40,244.49	\$36,720.26	\$42,972.93
KWh	630,000	642,000	571,500	619,500	552,000	564,000	436,500	516,000	475,500	531,000	484,500	567,000
2013	\$48,998.24	\$48,657.18	\$45,815.06	\$51,271.94	\$49,566.66	\$50,589.83	\$49,566.66	\$40,926.60	\$39,335.01	\$37,629.74	\$36,833.94	\$37,516.05
KWh	646,500	642,000	604,500	676,500	654,000	667,500	654,000	540,000	519,000	496,500	486,000	495,000
2012	\$49,111.92	\$50,248.77	\$47,861.39	\$51,158.25	\$50,021.40	\$51,954.05	\$47,065.59	\$38,425.53	\$39,789.75	\$45,132.95	\$50,817.20	\$48,770.87
KWh	270,000	663,000	631,500	675,000	660,000	685,500	295,500	507,000	525,000	595,500	670,500	643,500
2011	\$51,954.05	\$52,636.16	\$48,770.87	\$47,975.07	\$48,316.13	\$49,339.29	\$49,680.35	\$48,429.81	\$36,606.57	\$35,242.35	\$37,175.00	\$84,354.28
KWh	685,500	694,500	643,500	633,000	637,500	651,000	655,500	639,000	483,000	465,000	490,500	622,500
2010	\$50,883.84	\$51,792.48	\$47,135.70	\$53,382.60	\$51,792.48	\$47,362.86	\$39,866.58	\$42,138.18	\$40,207.32	\$38,019.30	\$45,772.74	\$45,659.16
KWh	672,000	684,000	622,500	705,000	684,000	625,500	526,500	556,500	531,000	502,500	604,500	603,000
2009	\$49,975.20	\$51,906.06	\$48,044.34	\$51,338.16	\$48,612.24	\$51,111.00	\$51,565.32	\$44,750.52	\$44,523.36	\$44,636.94	\$53,269.02	\$51,111.00
KWh	660,000	685,500	634,500	678,000	642,000	675,000	681,000	591,000	588,000	589,500	703,500	675,000
2008	\$51,565.32	\$52,473.96	\$52,360.38	\$56,449.26	\$50,770.26	\$54,064.08	\$51,906.06	\$53,609.76	\$52,928.28	\$51,224.58	\$52,587.54	\$49,520.88
KWh	681,000	693,000	691,500	745,500	670,500	714,000	685,500	708,000	699,000	676,500	694,500	654,000
2007	\$57,471.48	\$56,335.68	\$50,997.42	\$56,790.00	\$54,404.82	\$55,994.94	\$53,269.02	\$53,609.76	\$54,404.82	\$52,133.22	\$52,473.96	\$52,360.38
KWh	759,000	744,000	673,500	750,000	718,500	739,500	703,500	708,000	718,500	688,500	693,000	691,500
2006	\$57,585.06	\$56,335.68	\$49,180.14	\$53,269.02	\$50,543.10	\$53,836.92	\$53,723.34	\$55,313.46	\$55,881.36	\$55,086.30	\$55,994.94	\$55,199.88
KWh	760,500	744,000	399,000	703,500	667,500	711,000	709,500	730,500	738,000	577,500	739,500	729,000
2005	\$108,184.92	\$56,335.68	\$39,412.26	\$83,481.30	\$53,382.60	\$54,291.24	\$55,817.76	\$59,175.18	\$53,221.32	\$46,200.00	\$55,767.78	\$54,972.72
KWh	718,500	744,000	520,500	384,000	705,000	717,000	751,500	781,500	718,500	577,500	736,500	726,000
2004	\$61,235.13	\$63,676.76	\$59,527.06	\$61,341.87	\$62,553.64	\$67,714.73	\$62,829.21	\$64,185.42	\$74,183.50	\$58,746.78	\$45,047.41	\$53,780.10
KWh	758,591	789,000	709,500	760,500	760,500	822,000	765,000	780,000	765,000	715,500	768,000	709,500

General Operations and Maintenance activities:

- Basin Performance has declined drastically due to an extended period of low-quality water coming into the RIX. We are also running tests to determine if changes need to be made to the sand that is being added back to the basins
 - Basins 1A, 1B, 2B, 3B, 4A, and 5B have all been rehabilitated and returned to their original elevations. Unfortunately, the percolation rates have decreased since the additional sand was added.
 - We have a distribution pipe in Basin 2D (linked to Basin 2B) that needs to be repaired to prevent water from going into the basin when 2B is online; a plug has been installed for the time being, which will allow us to use Basin 2B.
- During this reporting period, the RIX facility received 2.2 inches of rain. San Bernardino WRP diverted Zero (0) MG to the Santa Ana River (SAR) using the 20 to 1 diversion option.
- RIX operations and maintenance staff, as always, continue to work on minimizing plant shutdowns. During this reporting period, there were one (1) RIX plant shutdown(s).
- The operations staff is currently performing extraction well performance and efficiency testing on all the RIX extraction wells. All the XC wells have been tested, and we are now working on the XR wells when time and manpower are available.
- XR-53 faulted on July 22, 2023, due to an electrical issue with the underground power feed; this is currently under investigation. Roads are being excavated to find electrical ground faults.
- Operations staff continue to perform plant cleanup. Weeds and shrubs have been removed from several areas around the facility. The perimeter fences are being cleared of all weeds and debris. Multiple trees have been trimmed.
- New level radars have been installed on Basins 1A, 1B, 2A, 2B, 3A, 3B, 4A, 4B, 5A, 5B. The SCADA program was modified to allow for more precise calibration. Plan to

install new radar sensors on Basin weirs to replace ultrasonic sensors for flow readings. A new flow radar has been installed on Basin 5B, and we are currently testing it for accuracy.

- During this reporting period 4 UV AC units had to be removed for repair. We currently have 3 of the 4 standby units ready if needed. Currently getting quotes on replacement units as we approach 10+ years of use on the current units.
- The bank 2 lamps on all UV channels are scheduled to be replaced next quarter.
- Aquadisk Filter were online from February 18, 2025, to April 07, 2025. Currently offline.

RIX ES and De-Minimis permit

- The RIX expansion site wells were in AUTO stand-by mode during this reporting period. The RIXES system will activate whenever the RIX extraction system shuts down or the final effluent flow falls below 10 MGD.
- During this reporting period, the RIXES wells were activated (1) one times during shutdowns and (5) five times for maintenance purposes.
- The RIX ES site has been cleaned up and is being maintained. K-rails have been installed on the property line to discourage access. Additional K-Rails were placed on the expansion site property to discourage encampments.
-

TOTAL RIXES FLOWS DISCHARGED IN THIS REPORTING PERIOD: 2.69 MG

- A UV control logic modification to allow automatic and reliable operation of the UV system in 3-Channel mode has been in operation. The program allows the UV system to be operated in auto with 1 bank on-line in each of the three online channels, with the 2 remaining UV banks in stand-by. The stand-by banks will automatically come on as required to maintain dosage requirements depending on flow and effluent quality parameters. The RIX was already reducing electrical costs by operating the system in 3-channel 9-bank manual mode.

However, the system would shut down if there were 2 major UV alarms and 2 banks without a major alarm was required in the old program. The new automatic mode of operation will not shut the plant down if 1 bank remains on-line without a major alarm and the program will automatically bring on the other banks if needed. This greatly reduces the frequency of shutdowns caused by UV alarms, in addition to further reducing energy consumption and greatly reducing UV maintenance costs by extending the time between lamp change outs. When compared to 5-channel 15-bank mode of operation, the savings in energy alone was approximately \$441,000 per year.

Process Control:

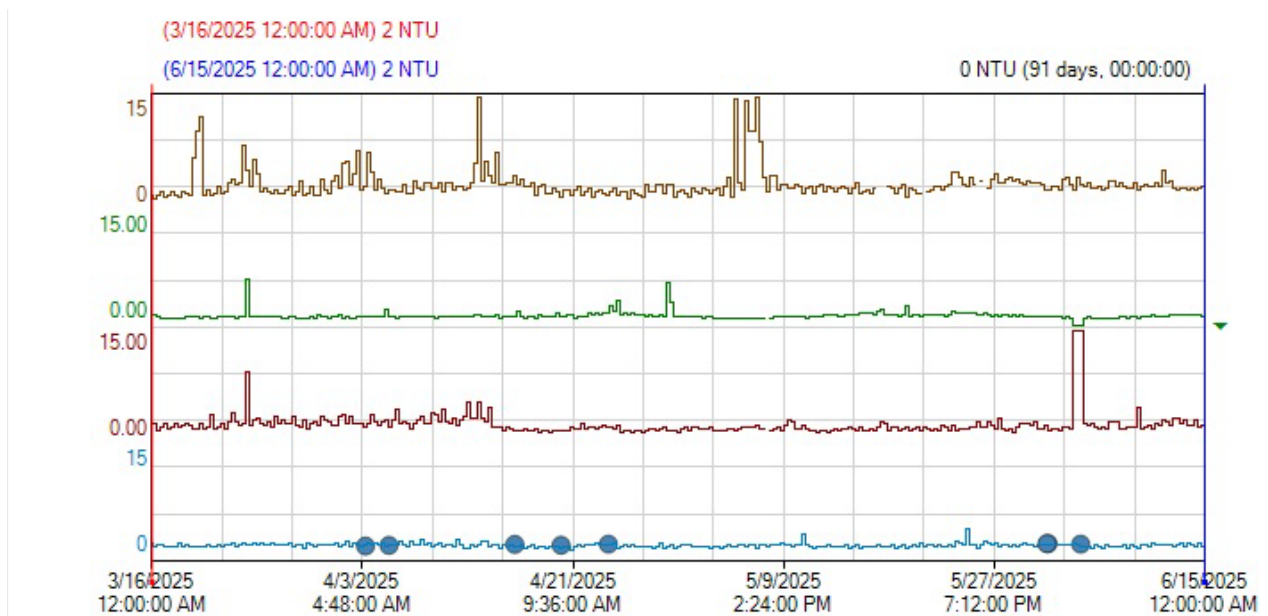
During this reporting period, staff continued with the following operational strategies:

- Bladder plug valves remain in place in standpipe overflow structures at Percolation Basins Nos. 4 and 5.
- Continue to optimize extraction rates from the Extraction Containment (XC) and Extraction Relief (XR) wells to maintain prescribed percolation basin performance while saving energy.
- Maintaining a three to five-day basin rotation schedule, when possible, with levels maintained at or below percolation rates.
- Operating the UV system in 5-channel/15-bank mode whenever the conventional filters are online. Whenever the conventional filters are not in use, the UV system is operated in 3-channel/3-bank auto mode of operation in accordance with the UVDOP.
- Over extraction rates are currently targeted at 7%.
- All weekly and monthly ground water levels and pumping water levels (PWLs) were measured and recorded. Currently, the PWLs are at/or below the 40 feet target. All monitoring well levels increased this past quarter.

Discharge Sampling:

- All required sampling for this reporting period has been collected and processed.
- Grab samples of RIX final effluent for April, May and June 2025. Whole Effluent Toxicity (WET) tests were collected and sent to Nautilus laboratory as scheduled, with a split sample sent to ES Babcock labs.

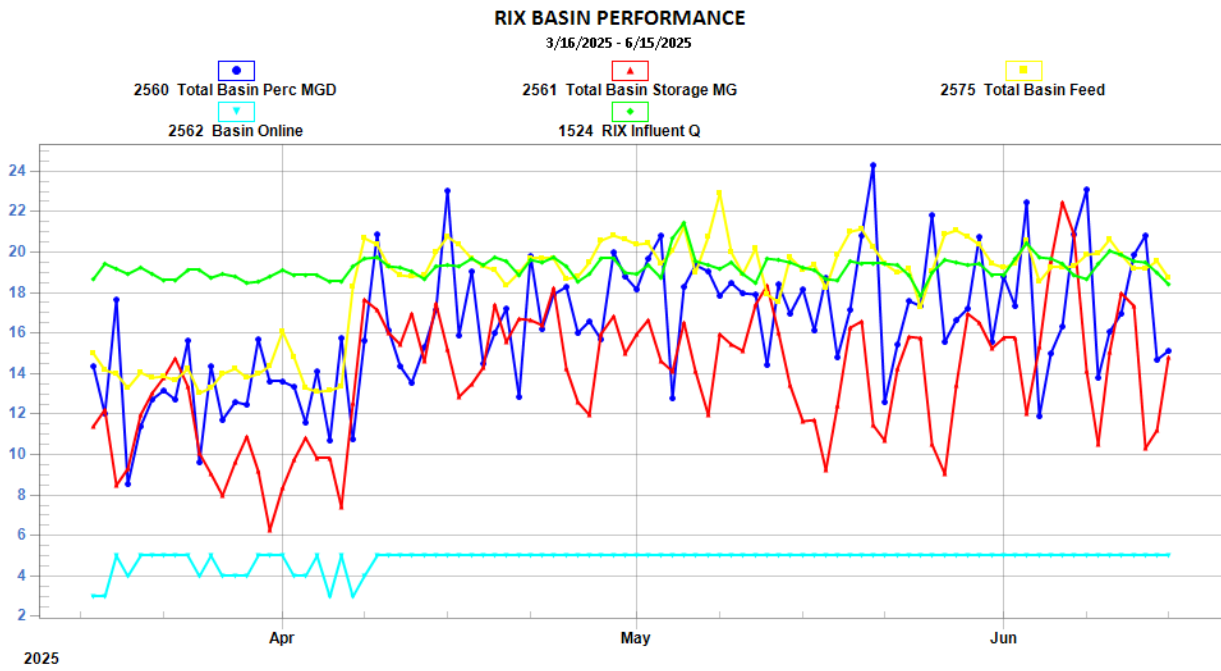
RIX Facility Influent Turbidity Trends:



INSQL1-2013:SAND_FLTR_INFL_TURB [Cyclic - 00 07:23:06.898]

Tag Name	Description	Number	Server	Color	Units	Minimum	Maximum	IC
☒ COLTON_EFFL_TURB_ME...	Colton Effluent Turbidity ...	5	INSQL1-2013		NTU	0	15	\
☒ Outfal_Trbid_West	Unit 1 Effluent Turbidity	3	INSQL1-2013		NTU	0.00	15.00	\
☒ Outfal_Trbid_East	Unit 2 Effluent Turbidity	2	INSQL1-2013		NTU	0.00	15.00	\
☒ SAND_FLTR_INFL_TURB	Sand Filter Influent Turbi...	4	INSQL1-2013		NTU	0	15	\

Percolation Basin Performance Trends:



**CITY OF SAN BERNARDINO
MUNICIPAL WATER DEPARTMENT
INTEROFFICE MEMORANDUM**

TO: Miguel J. Guerrero, P.E., President, RIX JPA Board of Directors 

FROM: Kevin T. Stewart, P.E., Water Reclamation Director, City of San Bernardino Municipal Water Department

SUBJECT: **EXPENDITURES REPORT - THROUGH June 15, 2025**

DATE: June 24, 2025

COPIES: File

BACKGROUND:

The attached monthly expenditures and accounting report covers the period from July 1, 2024, through June 15, 2025. This report is not an audited account of the JPA's financial position. Based on the latest financial information provided by the City of San Bernardino Municipal Water Department's Finance Section, below is a summary of the operation and maintenance (O&M) expenditures and encumbrances through June 15, 2025.

O&M

\$1,402,827.33 spent	51.56% actual to budget
\$2,720,556.00 budgeted	59% through the fiscal year

O&M with Personnel

\$2,512,300.81 spent	59.24% actual to budget
\$4,240,577.00 budgeted	59% through the fiscal year

Capital

\$324,183.05 encumbered	13.82% encumbered to budget
\$212,548.60 YTD Actual	9% actual to budget
\$2,345,000.00 budgeted	59% through the fiscal year

RECOMMENDATION:

Informational items only; no formal action is required. Receive and File.

/eg

Attachment: Financial Spreadsheet

City of San Bernardino Municipal Water Department
 RIX Facility Appropriations Report - Section 305025
 Fiscal Year 2024 - 2025

7/1/2024 % of Budget Year Elapsed
 Report Date: 06/23/25 98%
 Payroll through: 06/15/25 96%
 Approximate Budget Expended (not including Capital Outlay): 59%



Expense Type	Account Number	Account Long Description	Revised Budget	Amount Encumbered	YTD Actual	Balance	% Used
300	305025-5010	REGULAR SALARY	\$ 966,723.00	\$0.00	\$ 673,650.83	\$ 293,072.17	69.68%
300	305025-5011	PART TIME SALARY	\$ 11,279.00	\$0.00	\$ -	\$ 11,279.00	0.00%
300	305025-5012	OVERTIME	\$ 15,000.00	\$0.00	\$ 11,272.57	\$ 3,727.43	75.15%
300	305025-5013	ON CALL	\$ 8,000.00	\$0.00	\$ 4,590.13	\$ 3,409.87	57.38%
300	305025-5014	VACATION	\$ -	\$0.00	\$ 40,913.73	\$ (40,913.73)	0.00%
300	305025-5015	SICK	\$ -	\$0.00	\$ 34,314.03	\$ (34,314.03)	0.00%
300	305025-5016	HOLIDAY	\$ -	\$0.00	\$ 50,242.93	\$ (50,242.93)	0.00%
300	305025-5019	OTHER NON-PRODUCTIVE	\$ -	\$0.00	\$ 3,886.25	\$ (3,886.25)	0.00%
300	305025-5050	MEDICAL INSURANCE	\$ 181,780.00	\$0.00	\$ -	\$ 181,780.00	0.00%
300	305025-5054	LIFE INSURANCE	\$ 416.00	\$0.00	\$ 316.97	\$ 99.03	76.19%
300	305025-5056	DEFERRED COMP	\$ 16,900.00	\$0.00	\$ 4,173.91	\$ 12,726.09	24.70%
300	305025-5057	LT DISABILITY INSURANCE	\$ -	\$0.00	\$ 4,308.31	\$ (4,308.31)	0.00%
300	305025-5060	FEDERAL TAX	\$ 14,181.00	\$0.00	\$ 9,665.20	\$ 4,515.80	68.16%
300	305025-5062	CALPERS	\$ 108,491.00	\$0.00	\$ 74,887.70	\$ 33,603.30	69.03%
300	305025-5063	CALPERSUAL	\$ 197,251.00	\$0.00	\$ 197,250.92	\$ 0.08	100.00%
300	305025-5065	FUTURE MEDICAL BENEFITS	\$ -	\$0.00	\$ -	\$ -	0.00%
300	305025-5101	CONF. & MEETINGS	\$ 5,300.00	\$0.00	\$ 3,607.29	\$ 1,692.71	68.06%
300	305025-5102	TRAINING	\$ 640.00	\$0.00	\$ 81.00	\$ 559.00	12.66%
300	305025-5103	MEMBERSHIP & PUBS	\$ 12,250.00	\$0.00	\$ 345.00	\$ 11,905.00	2.82%
300	305025-5104	CERTIFICATIONS	\$ 522.00	\$0.00	\$ 553.00	\$ (31.00)	105.94%
300	305025-5105	EMPLOYEE REIMBURSEMENT	\$ 90.00	\$0.00	\$ 350.00	\$ (260.00)	388.89%
300	305025-5106	SAFETY PPE	\$ 9,200.00		\$ 5,296.53	\$ 3,903.47	57.57%
300	305025-5108	UNIFORMS	\$ 6,000.00	\$0.00	\$ 5,014.79	\$ 985.21	83.58%
300	305025-5111	OFFICE SUPPLIES	\$ 1,200.00		\$ 1,056.67	\$ 143.33	88.06%
300	305025-5112	OFFICE EQUIPMENT	\$ 3,200.00	\$0.00	\$ 891.15	\$ 2,308.85	27.85%
300	305025-5114	PRINTED MATERIALS	\$ -	\$0.00	\$ -	\$ -	0.00%
300	305025-5115	BOOKS & PUBLICATIONS	\$ -	\$0.00	\$ -	\$ -	0.00%

City of San Bernardino Municipal Water Department
RIX Facility Appropriations Report - Section 305025
Fiscal Year 2024 - 2025

7/1/2024 % of Budget Year Elapsed
 Report Date: 06/23/25 98%
 Payroll through: 06/15/25 96%
 Approximate Budget Expended (not including Capital Outlay): 59%



Expense Type	Account Number	Account Long Description	Revised Budget	Amount Encumbered	YTD Actual	Balance	% Used
300	305025-5116	RENT AND LEASES	\$ 630.00	\$0.00	\$ 12,785.02	\$ (12,155.02)	2029.37%
300	305025-5117	POSTAGE	\$ 500.00	\$0.00	\$ -	\$ 500.00	0.00%
300	305025-5118	LIABILITY INSURANCE	\$ 60,000.00	\$0.00	\$ 41,233.22	\$ 18,766.78	68.72%
300	305025-5119	PROPERTY INSURANCE	\$ 58,000.00	\$0.00	\$ 54,741.74	\$ 3,258.26	94.38%
300	305025-5121	UNINSURABLE LOSSES	\$ 5,200.00		\$ 12,397.08	\$ (7,197.08)	238.41%
300	305025-5124	PERMITS & FEES	\$ -	\$0.00	\$ -	\$ -	0.00%
300	305025-5201	PROFESSIONAL SERVICES	\$ -	\$0.00	\$ -	\$ -	0.00%
300	305025-5202	AUDIT SERVICES	\$ 3,100.00	\$0.00	\$ -	\$ 3,100.00	0.00%
300	305025-5203	ENGINEERING SERVICES	\$ 1,125,000.00	\$207,998.75	\$ 76,806.25	\$ 840,195.00	25.32%
300	305025-5204	JANITORIAL SERVICES	\$ 4,680.00	\$0.00	\$ 4,290.00	\$ 390.00	91.67%
300	305025-5205	TRUCK HAULING	\$ 5,940.00	\$0.00	\$ 5,895.00	\$ 45.00	99.24%
300	305025-5208	LAB SERVICES	\$ -	\$0.00	\$ -	\$ -	0.00%
300	305025-5211	SECURITY SERVICES	\$ 3,400.00	\$0.00	\$ -	\$ 3,400.00	0.00%
300	305025-5214	EQUIPMENT RENTAL	\$ 234,000.00	\$92,040.00	\$ 212,182.81	\$ (70,222.81)	130.01%
300	305025-5216	INSPECTION SERVICES	\$ 1,700.00	\$0.00	\$ 5,652.24	\$ (3,952.24)	332.48%
300	305025-5224	LANDSCAPE SERVICES	\$ 1,204.00	\$3,408.21	\$ 2,232.99	\$ (4,437.20)	468.54%
300	305025-5230	LEGAL SERVICES	\$ 25,000.00	\$0.00	\$ -	\$ 25,000.00	0.00%
300	305025-5301	MATERIALS & SUPPLIES	\$ 59,100.00	\$3,363.55	\$ 53,744.85	\$ 1,991.60	96.63%
300	305025-5302	SMALL EQUIPMENT	\$ 2,500.00		\$ 10,727.83	\$ (8,227.83)	429.11%
300	305025-5303	RADIO EQUIPMENT	\$ -	\$0.00	\$ -	\$ -	0.00%
300	305025-5305	FUEL & LUBRICANTS	\$ 36,500.00	\$0.00	\$ 28,013.35	\$ 8,486.65	76.75%
300	305025-5306	CHEMICALS	\$ 18,800.00		\$ 15,214.78	\$ 3,585.22	80.93%
300	305025-5311	UV LAMPS	\$ 66,200.00	\$4,893.75	\$ 132,174.95	\$ (70,868.70)	207.05%
300	305025-5401	GENERAL REPAIRS	\$ 28,000.00	\$725.00	\$ 41,421.67	\$ (14,146.67)	150.52%
300	305025-5402	GENERAL MAINTENANCE	\$ 133,000.00	\$0.00	\$ 10,004.72	\$ 122,995.28	7.52%
300	305025-5404	STREET PAVING	\$ 1,900.00	\$0.00	\$ -	\$ 1,900.00	0.00%
300	305025-5501	ELECTRIC	\$ 748,480.00		\$ 290,674.17	\$ 457,805.83	38.84%

City of San Bernardino Municipal Water Department
 RIX Facility Appropriations Report - Section 305025
 Fiscal Year 2024 - 2025

7/1/2024 % of Budget Year Elapsed
 Report Date: 06/23/25 98%
 Payroll through: 06/15/25 96%
 Approximate Budget Expended (not including Capital Outlay): 59%



Expense Type	Account Number	Account Long Description	Revised Budget	Amount Encumbered	YTD Actual	Balance	% Used
300	305025-5502	WATER	\$ 2,100.00	\$0.00	\$ 1,611.67	\$ 488.33	76.75%
300	305025-5504	REFUSE	\$ 6,160.00	\$0.00	\$ 3,609.72	\$ 2,550.28	58.60%
300	305025-5505	HAZ WASTE DISPOSAL	\$ 1,000.00	\$0.00	\$ 6,799.55	\$ (5,799.55)	679.96%
300	305025-5506	LANDLINE	\$ 10,920.00	\$0.00	\$ 27,309.62	\$ (16,389.62)	250.09%
300	305025-5507	CELLPHONE	\$ 1,440.00	\$0.00	\$ 1,202.10	\$ 237.90	83.48%
300	305025-5508	INTERNET	\$ 29,000.00	\$0.00	\$ 15,428.43	\$ 13,571.57	53.20%
300	305025-5601	SOFTWARE	\$ 3,000.00		\$ 322.56	\$ 2,677.44	10.75%
300	305025-5602	SOFTWARE MAINTENANCE	\$ 3,700.00		\$ 6,035.90	\$ (2,335.90)	163.13%
300	305025-5604	COMPUTER EQUIPMENT	\$ -	\$0.00	\$ -	\$ -	0.00%
300	305025-5605	COMPUTER MAINTENANCE	\$ 2,000.00	\$0.00	\$ -	\$ 2,000.00	0.00%
300	305025-5930	OTHER EXPENSE	\$ -	\$0.00	\$ 690.42	\$ (690.42)	0.00%
300	305025-6001	CAPITAL OUTLAY-CIP	\$ 1,000,000.00	\$7,214.37	\$ 35,078.46	\$ 957,707.17	4.23%
300	305025-6007	CAPITAL OUTLAY-BUILD	\$ -	\$0.00	\$ -	\$ -	0.00%
300	305025-6008	CAPITAL OUTLAY-EQUIPMENT	\$ -	\$0.00	\$ -	\$ -	0.00%
300	305025-6009	CAPITAL OUTLAY-VEHICLES	\$ 140,000.00	\$3,309.74	\$ 140,931.88	\$ (4,241.62)	103.03%
300	305025-6150	CAPITAL OUTLAY-OPS & MAINT.	\$ 1,205,000.00	\$101,110.34	\$ 36,538.26	\$ 1,067,351.40	11.42%
			Adjusted Budget	Encumbrances	YTD Actuals	Expenditures & Encumbrances	Percent Used (includes encumbrances)
Subtotal Personnel:			\$ 1,520,021.00	\$ -	\$ 1,109,473.48	\$ 1,109,473.48	72.99%
Subtotal O&M:			\$ 2,720,556.00	\$ 312,429.26	\$ 1,090,398.07	\$ 1,402,827.33	51.56%
Subtotal Personnel and O&M:			\$ 4,240,577.00	\$ 312,429.26	\$ 2,199,871.55	\$ 2,512,300.81	59.24%
Subtotal Capital Outlay:			\$ 2,345,000.00	\$ 111,634.45	\$ 212,548.60	\$ 324,183.05	13.82%
Total Budget:			\$ 6,585,577.00	\$ 424,063.71	\$ 2,412,420.15	\$ 2,836,483.86	43.07%

**CITY OF SAN BERNARDINO
MUNICIPAL WATER DEPARTMENT
INTEROFFICE MEMORANDUM**

Received 06-25-25
RIX JPA AS
Board President

TO: Miguel J. Guerrero, P.E., President, RIX JPA Board of Directors 

FROM: Kevin T. Stewart, P.E., Director of Water Reclamation, City of San Bernardino
Municipal Water Department (SBMWD)

SUBJECT: RIX Compliance Report March 1, 2025 – May 31, 2025

DATE: June 24, 2025

COPIES: File

The following is a compliance review of the Regional Tertiary Treatment Rapid Infiltration and Extraction Facility (RIX) for the period of March 1, 2025, through May 31, 2025. This report has been provided by Jennifer L. Shepardson, Director of Environmental & Regulatory Compliance, for the City of San Bernardino Municipal Water Department and will be a regular reporting item within the RIX/Joint Powers Agreement (JPA) agenda.

For this monitoring period, all samples were collected from the established sampling point and all toxicity test results have passed and been validated. May 2025 test results will be provided in the next RIX/JPA compliance report because at the time of this report, this data had yet to go through management review and validation.

As noted in previous Compliance Reports, during quarterly effluent sampling that was completed on January 9, 2020, mercury was detected but not quantified at a level that exceeded the trigger level outlined in Attachment "I" of adopted Order R8-2013-0032 (RIX's National Pollutant Discharge Elimination System (NPDES) Permit. Although the trigger levels outlined in Attachment "I" only determine compliance of annual mercury monitoring, the RIX Facility continues to monitor mercury monthly. Additionally, the RIX facility uses an ultra-low-level mercury sampling method, which allows for mercury analysis at concentration levels below that of the trigger level outlined in Attachment "I". This sampling will continue to ensure metals are "non-detect" or below NPDES Permit thresholds until the Santa Ana Regional Water Quality Control Board provides permission to resume quarterly monitoring for this constituent.

Also noted in previous Compliance Reports, following the annual effluent sampling completed on September 8, 2021, priority pollutants 4,4'-DDD, 4,4'-DDE, and dieldrin were detected but not quantified at a level that exceeded the trigger levels outlined in Attachment "I" of the adopted Order. Per the monitoring requirements outlined in Attachment "E" of the adopted Order, the RIX facility accelerated monitoring of these constituents from an annual to a quarterly basis. There have been no detections over the trigger levels of these constituents in the last ten quarters of accelerated monitoring, therefore, monitoring frequency has reverted to an annual basis.

Additionally, during the annual sampling for priority pollutants completed on December 7, 2022, a quantifiable concentration of chloroform was detected, and monitoring of this pollutant was accelerated to quarterly monitoring. During the subsequent annual sampling for priority pollutants

that was completed on March 08, 2023, a quantifiable concentration for chloroform was again detected. Attachment “I” of the adopted Order does not specify a trigger value for chloroform, so the frequency of the monitoring continued a quarterly basis for an additional year as per the accelerated monitoring requirements outlined in Attachment “E” of the adopted Order.

During this reporting period there were no calendar weeks when the maximum calculated 7day median for total coliform exceeded the value of 2.2 MPN, nor were there any daily samples above 23 MPN per 100 mL of sample wastewater.

The Department continues to work with San Bernardino Valley Municipal Water District, U.S. Fish and Wildlife Service (USFWS) and the Santa Ana Regional Water Quality Control Board (SARWQCB) to incorporate measures at the RIX Facility that would facilitate continuous water flow to the Santa Ana River-Reach 4, when the RIX Facility experiences scheduled and unscheduled shutdown events. Adherence to this work helps fulfill the Department's commitment as a stakeholder in the San Bernardino County Habitat Conservation Plan (HCP) for the region, as well as the Department's Santa Ana Sucker Habitat Maintenance/Restoration Project. Additionally, Department staff participated in the development of HCP's Comprehensive Adaptive Monitoring & Management Plan (CAMMP). As mentioned in previous reports, the overall goal of this work is to minimize the potential stress on the Santa Ana sucker fish, and other threatened or endangered species, located in or along this Reach of the Santa Ana River. In years past, The Santa Ana River flow did not completely cease downstream when the RIX Facility experienced shutdown events. Due to drought conditions and lower groundwater table levels along the Santa Ana River plain, this is no longer the case. The RIX expansion site (RIXES) wells are equipped to discharge ground water to Reach 4 of the Santa Ana River during RIX shutdown events or when effluent flow drops below fifteen (15) million gallons per day (MGD). These wells remain fully functional and in stand-by automatic mode.

United States Fish & Wildlife Services (USFWS) finalized an Incidental Take Permit for the RIX regarding the Santa Ana sucker. Incidental take refers to the unintentional harm, harassment or death of a threatened or endangered species. This permit was issued at the end of February 2025.

The RIXES wells did activate and release water to the Santa Ana River during this monitoring period. These activation events are summarized below:

- On March 13, 2025, the RIXES wells automatically came online at 04:38 hours due to a power outage. The duration of this outage was five (5) hours and eighteen (18) minutes. Approximately 2.15 million gallons of groundwater (MG) were released to the Santa Ana River during this time. No identified mortality or stranding of Santa ana sucker fish were reported during this event.
- On March 15, 2025, the RIXES wells started at 08:12 hours due to a power outage. The duration of the power outage was two (2) hours and six (6) minutes. Approximately 0.76 MG of groundwater were discharged to the Santa Ana River during this event. No identified mortality or stranding of Santa ana sucker fish were reported during this event.
- On March 18, 2025, the RIXES wells came online at 09:12 hours and ran intermittently until 12:15 hours due to maintenance testing. Approximately 0.51 MG of groundwater was discharged to the Santa Ana River during this event.

- On April 11, 2025, RIXES production wells were activated due to a faulty effluent flow meter. The flow meter signal dropped, triggering the RIXES wells to automatically start. The duration of this event was approximately sixteen (16) minutes. The wells were activated from 07:11 to 07:27, and approximately 0.0892 MG of groundwater was released to the Santa Ana River. Due to the short duration of this unplanned runtime, RIXES Production Well #1 was placed in manual mode at 14:34 to 15:05 to collect a De Minimis sample for the day. Approximately 0.0265 MG of ground water was released to the Santa Ana River during this event.
- On April 21, 2025, the RIXES production wells were operated from 10:45 to 11:523 for biweekly maintenance. A total of 0.451 MG of groundwater was released to the Santa Ana River during this event.

A total of 3.987 MG of groundwater was released from the RIXES wells to the Santa Ana River during this compliance period.

Ground water discharged from the RIXES wells is authorized under the Regional Board's General De Minimis Permit (R8-2020-0006, NPDES No. CAG998001). This permit was issued to the Colton/San Bernardino Regional Tertiary Treatment and Water Reclamation Authority for the Regional Tertiary Treatment Rapid Infiltration and Extraction Facility (RIX) on May 24, 2017. Discharges from well testing and operation and directed to the Santa Ana River will be sampled as required by this Permit. Department staff anticipate that the operation and monitoring of these wells will eventually be covered under the renewed RIX NPDES Order and expect coverage under the General De Minimis Order to cease at that time.

Meetings & Other News:

The Emerging Constituent (EC) Task Force continues to commit to monitoring ECs that were selected by the State Water Resources Control Board for monitoring ground water quality, when necessary. The Task Force decreased annual monitoring in 2014 in favor of monitoring, when necessary, since the constituents being monitored had not significantly changed from one year to the next, and all collected sample levels thus far have been well below objectives used for human health measures. This Task Force is administered by the Santa Ana Watershed Project Authority (SAWPA) and the Department's Environmental & Regulatory Compliance staff participate regularly with this group and its public education campaign. This Task Force prepares a two-year budget. RIX's portion of the budget for fiscal year 2025 is \$8,769. For 2026, RIX's portion of the budget is set at \$13,757. The increase in budget is due to updated contracts with a public relations consultant and a regulatory strategist. The public education campaign is handled by a consultant. This consultant is tasked with public relations as they are related to EC-related blogs and videos utilized for educational events and social media. The consultant is also tasked with maintaining all EC Task Force social media accounts and content. Tracking and presentation metrics are collected for all educational events and social media visits to better understand what information the public is seeking and to create material that will be more appealing to future social media visitors.

The last major monitoring for EC's at the RIX's discharge point occurred the week of August 26, 2019, as a part of the overall EC monitoring program developed through SAWPA. The monitoring plan at that time included Per- and polyfluoroalkyl substances (PFAS). PFAS substances have been used in multiple products such as flame retardants, fabric protectors, paper food containers, and

various other industrial and consumer products since the 1940s. These chemicals are persistent and do not degrade in the environment easily. According to the United States Environmental Protection Agency (EPA) these chemicals have been linked to reproductive, developmental, liver, kidney, and immunological effects in laboratory animals. Also, according to EPA studies these chemicals are connected to increased cholesterol levels among exposed populations, low infant birth weights, effects on the immune system, cancer (for PFOA), and thyroid hormone disruption (for PFOS) in humans. As mentioned in previous reports, EPA released a health advisory for these substances in drinking water and has required selective testing of water system wells to determine if PFAS substances are identified in groundwater sources. Additionally, the Office of Administrative Law approved an Amendment that added PFAS monitoring requirements to the Water Quality Control Policy for Recycled Water and the State Water Resources Control Board released Water Code Sections 13267 and 13383 Order for the Determination of the presence of PFAS substances at Publicly Owned Treatment Works (Order WQ 2020-0015-DWQ). This Order does apply to the RIX Facility and requires the Department to conduct sampling and analyses of 31 PFAS analytes in the RIX's influent and effluent. The Department complied with the Order and continued collecting routine influent and effluent samples at RIX for PFAS monitoring. Environmental & Regulatory Compliance staff continue to participate in the Clean Water SoCal (formally referred to as the Southern California Association of Publicly Owned Treatment Works or SCAP), the California Association of Sanitation Agencies (CASA) and SAWPA meetings or task forces on PFAS regulation requirements and sample testing methodologies.

SAWPA is exploring whether additional EC monitoring will be performed in 2025.

In June 2022 the United States Environmental Protection Administration (USEPA) announced a proposal to designate two PFAS substances, perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS), as hazardous substances under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). This designation would require more transparency regarding the use and release of these chemicals into the environment. This proposal's public review period ended November 7, 2022. On June 13, 2023, USEPA released notice that the publication of a final rule designating these substances as hazardous under CERCLA would be delayed from August 2023 to February 2024. On February 8, 2024, EPA proposed adding nine per- and polyfluoroalkyl compounds including their salts and isomers as hazardous substances under CERCLA. Inclusion of these nine compounds as hazardous substances under CERCLA would allow these PFAS contaminants to be subject to additional corrective and cleanup actions under CERCLA's Corrective Action Program. Many water and wastewater agency representatives have expressed concern over how the hazardous substances designation will affect passive receivers of PFAS compounds. Public water and wastewater agencies have no control over the PFAS compounds they receive from groundwater and sewage influent streams, respectively. The Senate Committee on Environment and Public Works held a hearing on March 20, 2024, to discuss the impacts from designating PFAS compounds as hazardous substances under CERCLA. Two points brought forward at this hearing were (1) EPA is bypassing its usual policy development approach by listing PFAS as a hazardous substance without first defining the specific PFAS chemicals as a hazardous waste under the Resource Conservation and Recovery Act (RCRA), and (2) EPA proposal to use its discretionary authority to not enforce against passive receivers would not protect passive receivers from third party lawsuits. EPA released a PFAS Enforcement Discretion and Settlement Policy Under CERCLA on April 19, 2024. Per this policy, EPA will not "pursue entities where equitable factors do not support seeking response actions or costs under CERCLA" for PFAS contamination. EPA will focus on holding parties that have played a significant role in releasing or increasing the spread of PFAS into the environment, such as PFAS manufacturers and those that have used PFAS in manufacturing.

The policy also states that EPA does not intend to pursue response actions or remedy costs from community water systems, publicly owned treatment works, municipal separate storm sewer systems, publicly owned/operated municipal solid waste landfills, publicly owned airports, publicly owned fire departments, and farms where biosolids are applied to land. The Department will continue to work with Water and Wastewater industry groups to advocate for stronger protection measures against third party litigation for public agencies.

On January 14, 2025, the United States Environmental Protection Agency (USEPA) released a Draft Sewage Sludge Risk Assessment for Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonic Acid (PFOS) for public review and comment. This Draft Assessment evaluates the potential risks to human health and the environment when sewage sludge containing PFOA and PFOS is applied to land or incinerated. CASA released a letter regarding their concern over this Draft Risk Assessment. They believe in its current state the Assessment may create uncertainty and confusion over the use of land applied biosolids and jeopardize this proven practice of sustainable and responsible use of biosolids. CASA highlighted several key concerns. First, the Assessment did not include a risk management analysis that would provide context and provide a risk-benefit analysis. Secondly, the assessment did not stress that reality of limited biosolid management options. Thirdly, the assumptions made in the Assessment do not reflect the majority of biosolids land application practices, which typically involve non-contaminated biosolids with negligible background levels of PFAS and existing regulations that prevent runoff and ensure safe application. Finally, the Assessment does not include recent research on typical biosolids. The current research findings demonstrate limited migration of PFAS to groundwater and negligible crop uptake, which are critical elements that must be considered before finalizing the risk assessment. The Department supports CASA position on this Risk Assessment and sent a letter stating as such to the USEPA on February 27, 2025.

Department staff still routinely participate in the Basin Monitoring Task Force. As noted in previous reports, this Task Force is responsible for the creation of the Santa Ana Regional Triennial Ambient Water Quality Report and the Santa Ana River Waste Load Allocation Modeling effort. These two modeling efforts provide projections on expected water quality in surface waters (Santa Ana River and its tributaries) and ground water, with respect to Total Dissolved Solids (TDS) and Total Inorganic Nitrogen (TIN) throughout the Santa Ana River Watershed. The Ambient Water Quality Report has been completed and was released by SAWPA in April 2018. The next recomputation of ambient water quality will evaluate the 20-year period 2002-2021. As mentioned in previous compliance reports, the Waste Load Allocation Model results were finalized in April 2020.

The Department continues to participate in the development of a Salt and Nutrient Management Study specific to the San Bernardino Basin Area (SBBA) initiated by San Bernardino Valley Municipal Water District (Valley District) and continues to participate in Valley District's Habitat Conservation Plan (HCP) development and review as an active stakeholder and partner. Additionally, as noted in previous reports, the Department completed a nitrogen loss study at the RIX Facility in June 2019. The goal of the study is to show the Regional Board that RIX's processes can support a higher nitrogen loss coefficient. The Regional Board reached out to Department staff in April 2023 to ask for additional field data to support the Report's findings. Monitoring data was collected and analyzed throughout 2024 to support the Department's request. This data along with a second request to increase RIX's nitrogen loss coefficient from 25% to 34% was presented to the Regional Board on May 8, 2025. The Department is waiting for the Regional Board's decision on this request.

As noted in previous reports, The State Water Board did approve one new narrative and four new numeric mercury objectives to apply to inland surface waters, enclosed bays, and estuaries within the

State of California. These new objectives will apply to RIX's discharge to Reach 4 of the Santa Ana River.

For the RIX Facility, mercury objectives, as well as monitoring data for selenium, arsenic and cadmium are monitored and discussed in an annual Biomonitoring Report developed through the Santa Ana River Dischargers Association (SARDA), of which the Department is a member. As shown in past years' studies, this study focuses on mercury, selenium, cadmium and arsenic content in the tissues of edible fish and fish that are less than 55 millimeters in length. This study meets the annual regional monitoring requirement for fish flesh testing highlighted in the RIX Facility's National Pollutant Discharge Elimination System (NPDES) permit. This report also includes sampling of benthic invertebrates, extended habitat evaluations and algal sampling. This data is uploaded to the California Environmental Data Exchange Network (CEDEN) for it to be used for Clean Water Act 303(d) (impaired water bodies) evaluation by the State and Regional Water Quality Control Boards. Monitoring work for the 2025 Study is currently underway and a report on findings is expected in December 2025.

On December 1, 2020, the State Water Resources Control Board adopted statewide numeric water quality objectives for both acute and chronic toxicity and a program of implementation to control toxicity. These toxicity provisions include a statistical analysis known as the Test for Significant Toxicity (TST). On February 23, 2022, the Stakeholder Advisory Committee for the State Water Board held a meeting to discuss the variability in test results when using test species, (past analyses performed by the Southern California Coastal Water Research Project (SCCWRP)) and expert science panel's interpretation of past analyses. SCCWRP released *Ceriodaphnia dubia* Quality Assurance Guidance Recommendation to assist the regulated community on evaluating sources of variability in control samples and reference toxicants to improve consistency and comparability of *Ceriodaphnia dubia* toxicity testing results. At this time, RIX's TST samples have shown no indications of toxicity that would negatively affect the reproduction and growth of *Ceriodaphnia dubia* specimens.

As noted in previous reports, the State Water Board has incorporated their Biological Integrity Assessment Plan into their Biostimulatory Substances Amendment to the Inland Surface Water, Enclosed Bays and Estuaries of California (ISWEBE Plan). According to the State Water Resources Control Board (SWRCB) website, The SWRCB is considering statewide water quality objectives for nutrients, cyanotoxins and other biostimulatory substances. These objectives could be numeric or narrative and could include biological condition assessment tools. The SWRCB plans on starting discussions on implementing objectives in the second half of 2024 for wastewater effluent, wadable streams and rivers through public workshops. In 2025 the SWRCB will focus on biostimulatory water quality for lakes and reservoirs, as well as cyanotoxins water quality objectives for inland surface waters. The Department's Environmental and Regulatory Compliance staff will continue to track these developments and provide public comments on the proposals when necessary.

As mentioned in June 2024, SCCWRP's study of individual salt ions in the Santa Ana River and the effect these ions could have on habitat and biota has been completed and a draft report was released through SAWPA for review and comments. Several stakeholders, including the Department's Environmental and Regulatory Compliance staff, raised concerns that this report will be utilized by the State Water Board for regulatory purposes. Stakeholders stressed that additional information on the sampling protocol and laboratory reporting will be necessary before the study is to be considered to aid in regulatory setting for individual ions. SCCWRP's authors of the study understood the concerns raised and reiterated that the study was not planned to be utilized for regulatory purposes at this time.

San Bernardino County Code Enforcement has not provided any information at the time of this report on whether Santa Ana River sweeps to remove trespassers and off-road vehicle riders have already occurred this year or are planned for the near future. The last sweep occurred on September 4, 2022. As noted in past reports, homelessness continues to be a problem along the Santa Ana River and its tributaries. Concerns from SAWPA Task Forces on bacteria loading from these encampments continue and studies are still underway for possible source control options. The Department staff continue to work with the City Attorney and Colton Police Department to try and relocate homeless encampments off RIX property when they are identified. Department staff will also be coordinating with SAWPA's Middle Santa Ana River Task Force on a synoptic study of the middle Santa Ana River regarding bacteria source tracking in Reach 3 of the River.

The current NPDES Order and Waste Discharge Requirements (WDR) (Order No. R8-2013-0032; NPDES No. CA8000304) expired on July 1, 2018. Department staff submitted the permit renewal application for waste discharge and water reclamation requirements on December 27, 2017, and Regional Board staff acknowledged receipt of this application the same day via e-mail. A draft permit has not yet been released for review, but the Regional Board staff did indicate that the current RIX Order would be administratively extended until a new Permit is issued. Regional Board staff did not provide information on when a new RIX Order would be released. In March 2025, the Supreme Court delivered a ruling in favor of the City and County ss. EPA. The City and County of San Francisco were looking for clarity on receiving water limitations and their responsibilities. The court ruled that the City and County are not directly enforceable against these two entities. This ruling is expected to impact other wastewater dischargers NPDES permits and thus may increase the delay in permit issuances.

Laboratory Budget

The FY 2024-2025 RIX Laboratory Budget is \$283,000. Expenses and encumbrances up to June 4, 2025, are \$156,000 or approximately 55% of the adopted budget. These costs appear low when compared to expectations, however, staff anticipated that the RIX's new NPDES Permit would be released by the Santa Ana Regional Water Quality Control Board in fiscal year 2024-2025 and therefore budgeted for additional Whole Effluent Toxicity (WET) analyses under the expected permit's new toxicity testing methodology (Test of Significant Toxicity).

**CITY OF SAN BERNARDINO
MUNICIPAL WATER DEPARTMENT
INTEROFFICE MEMORANDUM**

Received 06-26-25
RIX JPA 
Board President

TO: RIX JPA Board of Directors

FROM: Miguel J. Guerrero, President, RIX JPA Board of Directors

SUBJECT: **CHANGE THE OCTOBER 2025 MEETING DATE FOR THE COLTON/SAN BERNARDINO REGIONAL TERTIARY TREATMENT AND WATER RECLAMATION AUTHORITY**

DATE: June 26, 2025

BACKGROUND:

The RIX JPA Board President will be at a WEFTEC conference on the next scheduled Adjourned Regular Colton/San Bernardino Regional Tertiary Treatment and Water Reclamation Authority (RIX JPA) meeting on Wednesday, October 1, 2025.

RECOMMENDATION:

Staff recommends that the RIX JPA Board of Directors make the following motion:

Approve changing the RIX JPA meeting date of Wednesday, October 1, 2025 to Wednesday, October 8, 2025;

Or

Cancel the RIX JPA meeting date of Wednesday, October 1, 2025 and adjourn the July 2, 2025 Board meeting to the next scheduled regular RIX JPA meeting on January 7, 2026.

Respectfully submitted,



Miguel J. Guerrero
President, RIX JPA Board of Directors

as

**CITY OF SAN BERNARDINO
MUNICIPAL WATER DEPARTMENT
INTEROFFICE MEMORANDUM**

TO: RIX/JPA BOARD OF DIRECTORS

FROM: Miguel J. Guerrero, President

SUBJECT: ELECTION OF OFFICERS

DATE: June 26, 2025

BACKGROUND:

In accordance with the Joint Exercise of Powers Agreement between the City of Colton and the City of San Bernardino, Article VI – Officers; *Duties; Bonds*, Section 6.6, it is required that the Board of Directors appoint a Board President, Vice-President, and Secretary-Treasurer for a two-year term.

The last election of officers occurred on October 4, 2023, where Brian Dickinson was elected Vice-President. In 2024, there were changes in representation from the City of Colton, and the Vice-President position became vacant. The current roster of officers is:

Miguel Guerrero, President
Vacant, Vice-President
Wayne Hendrix, Secretary-Treasurer

At the City of Colton Council meeting on January 21, 2025, the Council appointed Councilmember John Echevarria as a representative on the Colton/San Bernardino Regional Tertiary Treatment and Water Reclamation Authority (RIX/JPA) Board of Directors, replacing RIX/JPA Vice-President Brian Dickinson.

At the City of Colton Council meeting on May 6, 2025, the Council appointed Chad Blais, Public Works & Utilities Director, as the alternate representative on the Colton/San Bernardino Regional Tertiary Treatment and Water Reclamation Authority (RIX/JPA) Board of Directors, replacing Dr. Luis Gonzalez.

RECOMMENDATION:

It is recommended that the Board of Directors elect a Vice-President in accordance with the Joint Exercise of Powers Agreement, until the next election in October 2025.

Respectfully submitted,



Miguel J. Guerrero
President, RIX JPA Board of Directors

**CITY OF SAN BERNARDINO
MUNICIPAL WATER DEPARTMENT
INTEROFFICE MEMORANDUM**

Received 06-11-25
SBMWD AS
RIX President

TO: Miguel J. Guerrero, President, RIX JPA Board of Directors 
FROM: Cynthia Mouser, Director of Finance, San Bernardino Municipal Water Department
SUBJECT: **BUDGET WORKSHOP AND ADOPTION OF RIX OPERATIONS AND MAINTENANCE BUDGET AND CAPITAL IMPROVEMENT PLAN BUDGET FOR FISCAL YEAR 2025-2026**
DATE: June 11, 2025
COPIES: Kevin Stewart, Jamie Laureano

BACKGROUND:

In accordance with Article VIII (General Administrative Budget) of the Joint Powers Agreement (JPA) dated August 2, 1994, the Operations and Maintenance Budget is to be adopted annually by the Board of Directors. The Colton/San Bernardino Regional Tertiary Treatment and Water Reclamation Authority (RIX) budget is taken to the RIX Board in July because the City of Colton and the San Bernardino Municipal Water Department (SBMWD) adopted their Operations and Maintenance Budgets and Capital Improvement Plan Budgets after April.

For the Fiscal Year 2025-26, staff has prepared the proposed Operations and Maintenance Budget along with the Capital Improvement Plan Budget, which received approval from the Department's Water Board on June 10, 2025.

GOALS AND OBJECTIVES:

This budget aligns with the Department's Key Value Statements, emphasizing commitment to transparency. Additionally, it supports the Department's Strategic Plan, specifically Target #5: Fiscal Responsibility, which includes Goal #14 focused on addressing the reserve policy and funding.

FISCAL IMPACT:

Funding for the RIX budget is allocated between the San Bernardino Municipal Water Department and the City of Colton, as specified in the Joint Powers Agreement (JPA). The San Bernardino Municipal Water Department contributes approximately eighty (80) percent of the total RIX expenses, while the City of Colton covers the remaining twenty (20) percent.

RECOMMENDATION:

Staff recommends that the RIX JPA Board of Directors make the following motion:

- Approve and deviate from the JPA conditions of Article VIII, conduct a workshop on July 2, 2025, to review the proposed 2025-26 combined budgets, and adopt the proposed budget.

Respectfully submitted,



Cynthia Mouser
Director of Finance

RIX JPA FUND

**CITY OF SAN BERNARDINO MUNICIPAL WATER DEPARTMENT
RIX FUND PROJECTED FUNDING SOURCE DETAIL
FISCAL YEAR 2025-2026**

ACCOUNT NUMBER	DESCRIPTION	ACTUAL REVENUE 2023-2024	ADOPTED BUDGET 2024-2025	PROJECTED REVENUE 2024-2025	PROPOSED BUDGET 2025-2026
	<u>OPERATING REVENUE</u>				
	<u>Service Charges and Other Revenue</u>				
	Other Services - RIX Operations - Colton's Share	\$ 996,401	\$ 1,942,899	\$ 1,496,133	\$ 2,064,787
3000.0000.4401	Other Services - RIX Operations - SBMWD's Share	<u>3,985,604</u>	<u>7,771,596</u>	<u>5,984,530</u>	<u>8,259,149</u>
	TOTAL REVENUE	<u>\$ 4,982,005</u>	<u>\$ 9,714,495</u>	<u>\$ 7,480,663</u>	<u>\$ 10,323,936</u>

RIX FACILITY

The Rapid Infiltration and Extraction (RIX) Facility is jointly owned by the Cities of San Bernardino and Colton through a Joint Powers Agreement. The SBMWD exclusively operates the RIX Facility. The RIX Facility is a 40 million gallon per day (MGD) Tertiary Treatment System which is required to meet the Title 22 wastewater reclamation water quality standards established by the Department of Health Services. The RIX Facility treats Secondary treated wastewater effluent from the San Bernardino Municipal Water Department Water Reclamation Plant (WRP) and Colton Wastewater Plant. The RIX Facility receives on average approximately 26.5 MGD. The Secondary treated effluent undergoes a final filtering process through the natural sand media percolation basins, which filters the secondary effluent while percolating into the ground. The filtered water is then pumped via extraction/containment wells and conveyed to an Ultraviolet (UV) disinfection system, followed by discharge to the Santa Ana River. The RIX Facility is staffed by a team comprised of members of both the Water Reclamation Operations and Maintenance Sections.

SECTION 5025

SECTION 5025

ACCOMPLISHMENTS

- Weekly and monthly checks of active monitoring wells resulted in 2350 well soundings and inspections per year.
- Replaced 1760 UV lamps as part of our scheduled maintenance replacement program.
- Restored two percolation basins to their original elevations using procured sand.

OBJECTIVES AND GOALS

- Selectively recondition 2-3 basin bottoms and raise the floor surface levels back to their original elevations.
- Continue improving and maintaining the UV system's reliability by replacing transformers and UV lamps as they reach their hour limitations.
- Wash 32,500 cubic yards of sand removed from the rehabilitated basins using our onsite wash plant.

**CITY OF SAN BERNARDINO MUNICIPAL WATER DEPARTMENT SEWER FUND
RIX FACILITY - SECTION 5025
FISCAL YEAR 2025-2026**

ACCOUNT NUMBER	DESCRIPTION	ACTUAL EXPENSE 2023-2024	ADOPTED BUDGET 2024-2025	PROJECTED EXPENSE 2024-2025	PROPOSED BUDGET 2025-2026
3000.5025.5402	GENERAL MAINTENANCE	29,518	133,000	35,000	66,500
3000.5025.5404	STREET REPAIRS & PAVING	-	1,900	-	5,000
3000.5025.5501	ELECTRICITY	366,924	748,480	340,000	360,000
3000.5025.5502	WATER	64,355	2,100	2,000	2,100
3000.5025.5503	NATURAL GAS	-	1,680	-	1,680
3000.5025.5504	REFUSE	2,425	6,160	5,000	6,160
3000.5025.5505	HAZARDOUS WASTE DISPOSAL	160	1,000	10,000	15,000
3000.5025.5506	TELEPHONE - LANDLINE	14,588	10,920	34,000	10,920
3000.5025.5507	CELL PHONE	2,846	1,440	2,000	1,440
3000.5025.5508	INTERNET	(2,427)	29,000	19,000	29,000
3000.5025.5601	SOFTWARE	240	3,000	500	3,000
3000.5025.5602	SOFTWARE MAINTENANCE	2,500	3,700	6,100	7,620
3000.5025.5605	COMPUTER MAINTENANCE SERVICES	-	2,000	-	2,000
3000.5025.5930	OTHER EXPENSES	111,791	-	700	1,068
	SUBTOTAL MAINTENANCE AND OPERATIONS	983,790	2,724,036	1,238,240	2,218,634
	OPERATING BUDGET - RIX	2,304,969	4,244,057	2,802,665	3,876,314
<u>CAPITAL PROJECT</u>					
	CAPITAL OUTLAY ITEMS				
3000.5025.6001	CAPITAL OUTLAY CIP	193,118	1,000,000	1,900,000	1,000,000
3000.5025.6009	CAPITAL OUTLAY VEHICLES	-	140,000	78,000	190,000
3000.5025.6150	CAPITAL OPERATIONS & MAINT	39,900	1,205,000	75,000	1,165,000
	SUBTOTAL TOTAL CAPITAL OUTLAY	233,018	2,345,000	2,053,000	2,355,000
	TOTAL BUDGET	\$ 2,537,987	\$ 6,589,057	\$ 4,855,665	\$ 6,231,314

CAPITAL IMPROVEMENT BUDGET SUMMARY

RIX FUND

RIX FUND CAPITAL IMPROVEMENT PLAN FY 2025-2026																
CATEGORY	PROJECT NUMBER	REVISED BUDGET	LTD ACTUALS AS OF 3/18/26	LTD ENCUMBRANCES AS OF 3/18/26	OPEN PROJECT BUDGET	PROJECT CARRY OVER	NEW PROJECT OR ADDITIONAL FUNDING	PROJECTED ACTUAL EXPENSES FOR FY 26-26	LABOR PORTION OF PROJECT	TOTAL CIP BUDGET FY 26-26	FUNDING SOURCES	PROJECTED FY 23-24	PROJECTED FY 24-25	PROJECTED FY 25-26	PROJECTED FY 26-27	OVERALL PROJECT BUDGET
NEW SYSTEMS ASSETS																
Sand Replenishment Project - FY 24/25 Contract	C2500338	1,000,000	7,649	-	992,351	-	1,000,000	1,000,000	-	1,000,000	Capital	-	-	-	-	2,000,000
RIX Facilities Master Plan Resultant New Equipment Projects		-	-	-	-	-	-	-	-	-	Capital	1,000,000	1,000,000	1,000,000	-	3,000,000
RIX Administration Building - Supervisor's Office Tenant Improvement	C2100256	210,000	16,434	-	193,566	194,000	26,000	200,000	-	220,000	Capital	-	1,870,000	1,865,000	1,865,000	5,235,000
Sand Wash Plant Replacement Project	C2500338	-	-	-	-	-	-	-	-	-	Capital	-	-	-	-	-
PLC Upgrade	C2400317	850,000	576,923	-	273,077	273,000	-	-	-	273,000	Capital	1,000,000	-	-	-	1,850,000
Interactive Operation & Maintenance Manual (IOM)	M2300296	544,000	180,489	91,879	271,632	364,000	-	-	-	364,000	-	-	-	-	-	-
(FUTURE) SCADA Master Plan Resultant Projects - RIX	Future	-	-	-	-	-	-	-	-	-	Capital	-	-	-	-	-
FACILITIES REHABILITATION																
Annual R/R - UV System	00351	130,000	-	-	130,000	-	150,000	150,000	-	150,000	Capital	50,000	50,000	50,000	50,000	480,000
Annual R/R - Well Systems	00352	650,000	-	-	650,000	-	650,000	650,000	-	650,000	Capital	650,000	650,000	650,000	650,000	3,900,000
Annual R/R - Other	00353	180,000	-	-	180,000	-	150,000	150,000	-	150,000	Capital	80,000	80,000	80,000	80,000	570,000
Annual R/R - Electrical, Instrumentation & SCADA	00354	80,000	61,109	-	28,891	80,000	80,000	80,000	-	80,000	Capital	80,000	80,000	80,000	80,000	390,000
Annual R/R - Facilities	00355	50,000	-	6,885	43,115	-	50,000	50,000	-	50,000	Capital	50,000	50,000	50,000	50,000	300,000
Annual R/R - Conveyance Lines	00356	105,000	-	-	105,000	-	105,000	105,000	-	105,000	Capital	100,000	100,000	100,000	100,000	610,000
GRAND TOTAL		3,889,000	642,804	88,764	2,667,633	831,000	2,181,000	2,386,000	-	3,022,000		2,870,000	3,640,000	3,635,000	2,634,000	18,334,000



San Bernardino Municipal Water Department
RIX Fund Capital Projects Budget
Fiscal Year 2025/2026

Project Name: SAND REPLENISHMENT PROJECT FY 24/25 CONTRACT
Asset Classification: NEW SYSTEM ASSETS
Asset Category: NEW EQUIPMENT

Budget ID No. **CO No. 00338**

Project Description: Each summer, the sand in the RIX basins is remediated through a process of removal, washing, and placement back in the basin. Each year, approximately 20% to 30% of the media is permanently removed as part of the washing process. This project will include procurement and placement of approximately 40,000 CY of sand of the 180,000 CY of sand needed (22% of total) to replenish what has been lost since the plant was originally constructed.



Budgetary Requirements:

Cost Category	Estimated Cost
CEQA Compliance:	\$0
Design:	\$0
Const. Mgmt:	\$0
Construction:	\$0
SBMWD Labor & Ovhd:	\$0
SBMWD Stock Issues	\$0
Equipment Rental:	\$0
Purchased Material:	\$0
Contract Services	\$1,000,000
Subtotal:	\$1,000,000
Contingency (10%)	\$0
TOTAL COSTS (ROUNDED)	\$1,000,000
Project Funding Sources:	Funding Amount
RIX Capital:	\$1,000,000
Chartis Escrow:	\$0
Water Conservation:	\$0
Other:	\$0
FUNDING (ROUNDED)	\$1,000,000

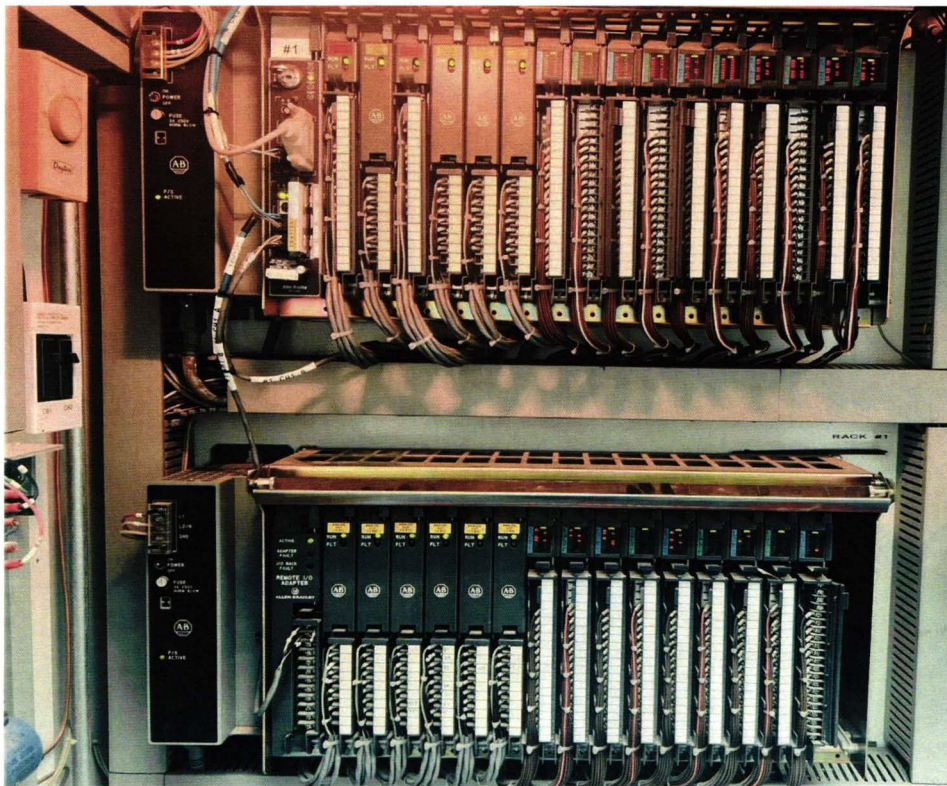


San Bernardino Municipal Water Department
RIX Fund Capital Projects Budget
Fiscal Year 2025/2026

Project Name: PLC Replacement
Asset Classification: NEW SYSTEM ASSETS
Asset Category: NEW EQUIPMENT

Budget ID No. **CO No. 00317**

Project Description: The project involves replacing legacy programmable logic controllers (PLCs) with modern ones using the PLC manufacturer's migration hardware and configuration tools. The cost for an integrator to perform the program conversion and installation of the procured hardware is included.



Budgetary Requirements:	
Cost Category	Estimated Cost
CEQA Compliance:	\$0
Design:	
Const. Mgmt:	\$0
Construction:	\$0
SBMWD Labor & Ovhd:	\$0
SBMWD Stock Issues	\$0
Equipment Rental:	\$0
Purchased Material:	\$43,077
Contract Services	\$230,000
Subtotal:	\$273,077
Contingency (10%)	\$0
TOTAL COSTS (ROUNDED)	\$273,077
Project Funding Sources:	Funding Amount
RIX Capital:	\$273,077
Chartis Escrow:	\$0
Water Conservation:	\$0
Other:	\$0
FUNDING (ROUNDED)	\$273,077

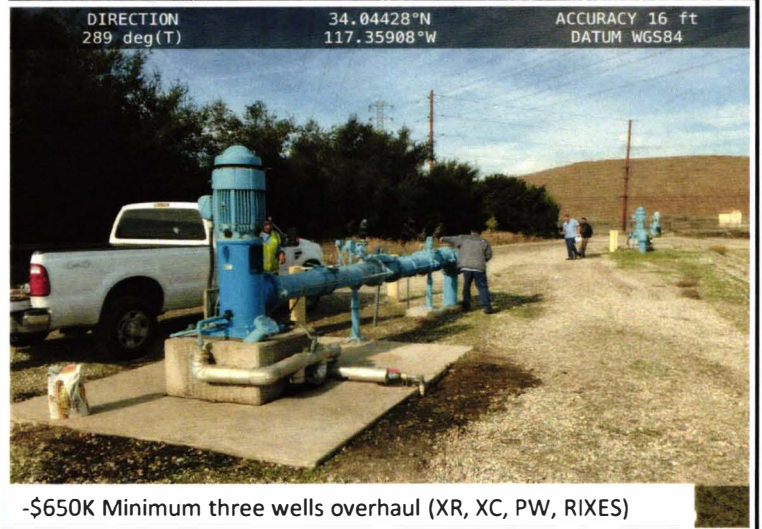
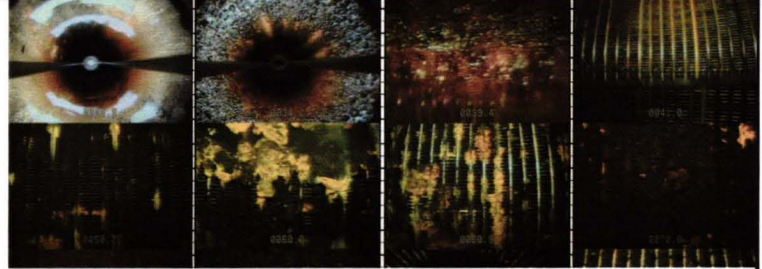


San Bernardino Municipal Water Department
RIX Fund Capital Projects Budget
Fiscal Year 2025/2026

Project Name: ANNUAL R/R - WELL SYSTEMS
Asset Classification: REPLACEMENT /REHABILITATION OF SYSTEM ASSETS
Asset Category: SYSTEM APPURTENANCES REHABILITATION & REPLACEMENT

Budget ID No. CO No. 00352

Project Description: The RIX Facility has thirty-three (33) groundwater extraction wells. Eighteen (18) of these are extraction containment wells designed to keep the rapidly infiltrated secondary effluent contained within the RIX Facility boundaries and fifteen (15) of these are extraction relief wells to control groundwater mounding beneath the basins and to ensure there is an unsaturated zone between the bottom of the basins and the top of the groundwater surface. The screened portions of the wells and the equipment foul and corrode over time and require ongoing rehabilitation and replacement. On average, the pulling, inspection, and re-equipping of these wells costs approximately \$35,000 to \$40,000 each.



- \$650K Minimum three wells overhaul (XR, XC, PW, RIXES)

Budgetary Requirements:

Cost Category	Estimated Cost
CEQA Compliance:	\$0
Design:	\$0
Const. Mgmt:	\$0
Construction:	\$0
SBMWD Labor & Ovhd:	\$0
SBMWD Stock Issues	\$0
Equipment Rental:	\$0
Purchased Material:	\$0
Contract Services	\$0
Subtotal:	\$650,000
Contingency (10%)	\$0
TOTAL COSTS (ROUNDED)	\$650,000
Project Funding Sources:	Funding Amount
RIX Capital:	\$650,000
Chartis Escrow:	\$0
Water Conservation:	\$0
Other:	\$0
FUNDING (ROUNDED)	\$650,000

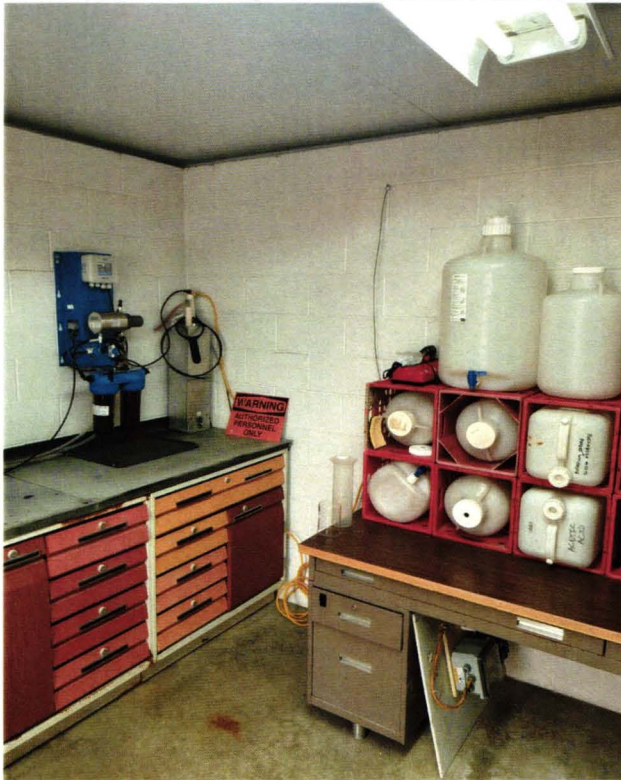


San Bernardino Municipal Water Department
RIX Fund Capital Projects Budget
Fiscal Year 2025/2026

Project Name: ANNUAL R/R - ELECTRICAL, INSTRUMENTATION, & SCADA
Asset Classification: REPLACEMENT /REHABILITATION OF SYSTEM ASSETS
Asset Category: SYSTEM APPURTENANCES REHABILITATION & REPLACEMENT

Budget ID No. **CO No. 00354**

Project Description: The RIX Facility includes an extensive array of buried and exposed electrical, instrumentation, control, and security components (motors, conductors, controllers, relays, etc) for the process systems and the facility in general. These components are routinely rehabilitated and/or replaced on a continuous basis to maintain a functional facility.



- \$30K New turbidity meters for Aquadisc Filters and Outfall.
- \$30K Other

Budgetary Requirements:

Cost Category	Estimated Cost
CEQA Compliance:	\$0
Design:	\$0
Const. Mgmt:	\$0
Construction:	\$0
SBMWD Labor & Ovhd:	\$0
SBMWD Stock Issues	\$0
Equipment Rental:	\$0
Purchased Material:	\$60,000
Contract Services	\$0
Subtotal:	\$60,000
Contingency (10%)	\$0
TOTAL COSTS (ROUNDED)	\$60,000
Project Funding Sources:	Funding Amount
RIX Capital:	\$90,000
Chartis Escrow:	\$0
Water Conservation:	\$0
Other:	\$0
FUNDING (ROUNDED)	\$90,000

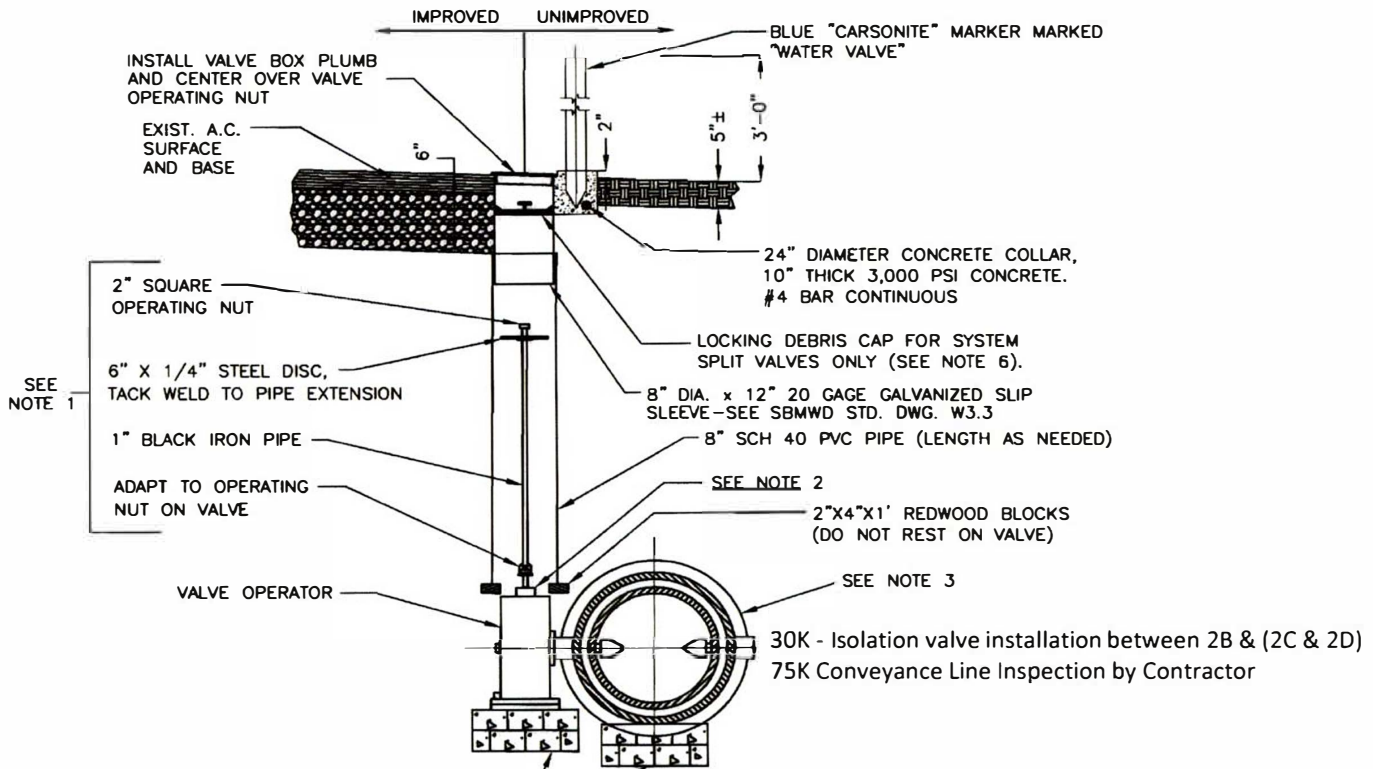


San Bernardino Municipal Water Department
RIX Fund Capital Projects Budget
Fiscal Year 2025/2026

Project Name: ANNUAL R/R - CONVEYANCE LINES
Asset Classification: REPLACEMENT /REHABILITATION OF SYSTEM ASSETS
Asset Category: SYSTEM APPURTENANCES REHABILITATION & REPLACEMENT

Budget ID No. **CO No. 00356**

Project Description: Project involves the replacement and repair of conveyance systems at the RIX facility plant.



Budgetary Requirements:

Cost Category	Estimated Cost
CEQA Compliance:	\$0
Design:	\$0
Const. Mgmt:	\$0
Construction:	\$0
SBMWD Labor & Ovhd:	\$0
SBMWD Stock Issues	\$0
Equipment Rental:	\$0
Purchased Material:	\$0
Contract Services	\$0
Subtotal:	\$105,000
Contingency (10%)	\$0
TOTAL COSTS (ROUNDED)	\$105,000
Project Funding Sources:	Funding Amount
RIX Capital:	\$105,000
Chartis Escrow:	\$0
Water Conservation:	\$0
Other:	\$0
FUNDING (ROUNDED)	\$105,000