

CITY OF REDLANDS
MUNICIPAL UTILITIES/PUBLIC WORKS COMMISSION
MEETING AGENDA

MONDAY, DECEMBER 6, 2021

4:00 PM Open Public Meeting

ADEKUNLE OJO
Chairperson

City Manager Conference Room
(upstairs above City Council Chambers)

STEVE STOCKTON
Vice Chairperson

Civic Center, 35 Cajon Street, Redlands, California

R. BRAD THOMS
Commissioner

ZACHARY TRAVIS
Commissioner

THOMAS BREITKREUZ
Commissioner

DAVID GARCIA
Commissioner

CHANDRASEKAR 'CV' VENKATRAMAN
Commissioner

JOHN R. HARRIS
Municipal Utilities & Engineering Director

GOUTAM DOBEY
Engineering Manager

KEVIN WATSON
Utilities Operations Manager

PLEASE NOTE: This will be a hybrid in-person and teleconference meeting via Zoom with votes conducted by roll call. The Commission will provide an opportunity for the public to address them on the subject items listed on this agenda. No general discussion items, or action on such items, may be taken by the Commission. Limit comments to 3 minutes. Written comments will be electronically distributed to Commission Members but not included in the minutes. Submit comments by 12:00 p.m. (noon) on Monday, December 6, by email to jweathers@cityofredlands.org, or by telephone at 909-798-7527 x4145 to have your comments read into record. Individuals with a disability, consistent with the Americans with Disabilities Act, who need assistance with public comment, may contact Goutam Dobey by telephone at 909-798-7584 x2 or by email at gdobey@cityofredlands.org at least two hours before the meeting to make alternate arrangements.

ZOOM MEETING INFORMATION:

Click or copy into your internet browser the link below to join the meeting:

<https://cityofredlands.zoom.us/j/89899185397?pwd=TWVnSlhKL2dFaWFVVEVVcEpPUzg4QT09>

Or you may call toll-free (877) 853-5247 or (888) 788-0099 to join the meeting

Follow the prompts to enter the **Webinar ID: 898 9918 5397** and **Passcode: 227448**

CITY OF REDLANDS
MUNICIPAL UTILITIES/PUBLIC WORKS COMMISSION
MEETING AGENDA

A. ATTENDANCE & CALL TO ORDER

B. PUBLIC COMMENT

(Any person wishing to provide public comment may do so at this time.)

C. APPROVAL OF MINUTES

- a. **October 4, 2021 Regular Meeting Minutes**

D. COMMUNICATIONS

- a. **Director's Report**
- b. **Report on Water Loss Audit from Consultant**
- c. **Commission Liaison Updates**
 - i. **2022 Calendar for MUPWC**
 - ii. **MUPWC's Annual Report to the City Council**

E. PRESENTATION

- a. **Presentation from Dudek – Proposed Updated Draft Citywide Master Plan for Wastewater System**
- b. **300 E. State Street Facility Acquisition**

F. NEW BUSINESS

- a. **Discussion of the Presentation of the Proposed Updated Citywide Master Plan for Wastewater System and Possible Recommendation to City Council for Adoption of the Plan**

G. COMMISSIONER ANNOUNCEMENTS, REPORTS ON ACTIVITIES, AND/OR REQUEST FOR FUTURE AGENDA ITEMS

H. ADJOURNMENT – Next Meeting is February 7, 2022 @ 4:00 pm

ATTACHMENTS:

- 1. **Draft Minutes of October 4, 2021 Regular Meeting**
- 2. **Director's Report**
- 3. **MUPWC 2022 Meeting Calendar**

DRAFT
(for MUPWC review on 12/6)
MINUTES

Regular meeting of the City of Redlands Municipal Utilities/Public Works Commission on October 4, 2021 at 4:00 PM in the Council Chambers at the Civic Center, 35 Cajon Street. The meeting was an in-person meeting with teleconferencing available via Zoom. Votes were conducted in person and by roll call.

1. ATTENDANCE & CALL TO ORDER

Present: Adekunle Ojo, Chairperson
Steve Stockton, Vice Chairperson
Chandrasekar 'CV' Venkatraman, Commissioner
David Garcia, Commissioner
Thomas Breitreuz, Commissioner
R. Brad Thoms, Commissioner
Eddie Tejada, Council Liaison/Mayor Pro Tempore (joined remotely)

Staff: John Harris, Municipal Utilities & Engineering Director; Goutam Dobey, Engineering Manager;
Kevin Watson, Utilities Operations Manager; Johana Silva, Assistant Engineer; Christian Duenez,
Administrative Assistant II; Jane Weathers, Commission Liaison/Senior Administrative Assistant

Guests: Richard Brady with Richard Brady & Associates, Inc.

Chairperson Ojo called the meeting to order, thanked and welcomed everyone for attending, and offered any public present the opportunity to provide comment on any item on the agenda. No members of the public were in attendance or joined remotely.

2. PUBLIC COMMENT

None forthcoming.

3. APPROVAL OF MINUTES

On motion of Commissioner Garcia, seconded by Vice Chair Stockton, the minutes of the regular meeting of August 9, 2021, were unanimously approved. Commissioner Garcia asked for a change to be made to page 3, second sentence, "...asked how safe the water audits are that staff provides to customers..." and to change 'safe' to 'effective' or 'accurate', however, Chair Ojo clarified the context of the word 'safe' was due to staff resuming in-person visits with customers as audits had been conducted via Zoom throughout the pandemic.

Vote: 6 – 0 Passed

4. DIRECTOR'S REPORT

DRAFT
(for MUPWC review on 12/6)
MINUTES

Before discussing the Director's Report, Director Harris shared a weekly email update would be available for the general public to receive regarding major capital projects. The content will provide some basic details such as the start and anticipated completion dates, contractor name and work schedule, city contacts, upcoming work and current construction progress, project budget, link to view interactive map (where applicable), and how to register. The Pavement Management Project 2021 Street Resurfacing Project is the first project that staff will begin sending weekly updates. If anyone is interested in receiving the updates, please let Ms. Weathers know.

Director Harris proceeded with highlights of the director's report stating the preliminary design work for the Wastewater Treatment Plant (WWTP) Phase 2 Project is complete, the tribal consultation process is close to completion, and the application for a State Revolving Fund loan is slated to be submitted by the end of the year.

The 2021 Citywide Sidewalk & ADA Ramp Replacement Project was awarded to Indio-based contractor Universal Construction and Engineering and will utilize the sidewalk replacement matrix adopted by City Council many years ago. Set up as a two-phase project, staff budgeted \$1.5m for this fiscal year, with the first phase being approximately \$377K. Following project completion in January 2022 staff will review Measure T revenues before proceeding with phase two.

Director Harris invited Mr. Watson to provide clarification on the City's recently validated water loss audit and its impact on investing in infrastructure improvements. Water validity is an actual number the consultant certifies as valid and scores based on how reliable the data is. The higher the validity score the higher the value of represented data which is beneficial in budgetary and operational decisions. For example, the data obtained from the citywide meter accuracy tests increased the validity because it included known data to compare. Following a few brief questions concerning water loss versus water sold percentage, value of water lost per gallons per customer, per acre foot, per connection, etcetera, Director Harris offered to provide a more thorough update to the Commission at their next meeting.

The Waterline Replacement Project is near completion and added ~2/3 of a mile of pipe while remaining under its approved budget. Staff is finalizing a 2021-2022 fiscal year project list, and multi-year water and sewer pipeline replacement projects and paving projects for use in the City's move toward 2-year budget cycles. The Pavement Management Program's 2021 Street Resurfacing Project, awarded to Matich Corporation, commenced with anticipated completion in March 2022. Overall, staff is ahead of schedule and under budget on ongoing projects. In September, City Council approved a ~\$751K contract amendment with GSE Construction for the WWTP Phase 1B project for SCADA implementation and construction of the impure water pump station.

With regard to water conservation, staff has returned to meeting with customers in person, evaluating the rebate program with a plan to revise the large turf and find ways to entice customers to participate. Changes to the Redlands Municipal Code Chapter 13.06 Water Conservation Plan will be brought to the Commission before it is presented to City Council.

Chair Ojo thanked Mr. Harris for the comprehensive update, Mr. Watson for his explanation of the validated water loss process, and to the Municipal Utilities and Engineering staff for their efforts to facilitate the report.

5. PRESENTATION

DRAFT
(for MUPWC review on 12/6)
MINUTES

Presentation from Richard Brady & Associates, Inc. on the Water Infrastructure Condition/Seismic/Structural Assessment

Mr. Harris introduced Richard Brady with Richard Brady & Associates, Inc. (Brady), the consultant hired to perform a condition, seismic and structural assessment on the City's water infrastructure. The presentation will focus on the Sunset Reservoir site and overall assessment, which staff learned has potential for an unexpected critical failure, possible solutions for its rehabilitation or replacement, and an opportunity related to the reservoir site.

Mr. Brady began with a description of California's fault zones, noting that Redlands sits precariously in between two major faults, a brief synopsis of the City's historical build out of water treatment facilities, storage, delivery, pumping stations, pressure zones, typography, and overarching issues. Ultimately, seismic resiliency is the goal. Each site assessed will receive a letter grade and site recommendations for rehabilitation, replacement, capacity needs, and consolidation of water storage facilities.

A discussion ensued concerning future planning/design (conceptual), storage deficiencies, water provision for fire needs, pumping, easements, non-City equipment, parcels adjacent to the Sunset Reservoir, updates on the master plan, elevations of the water treatment plants, storing water at the highest elevation available, pressure zones, alternatives, importance of redundancies throughout the system, lead paint, and seismic inadequacies.

Following discussion of the water master plan updates, consolidation of water storage, conceptual replacement of Sunset Reservoir at its current location, and benefits of acquiring the four parcels totaling ~20 acres that surround Sunset site, the group voiced their support of staff pursuing land acquisitions so long as the terms are equitable for all parties. Mr. Harris reiterated the update was informational as staff awaits the results of this master plan, SCADA data, and the calibrated model. The commissioners were appreciative of the information provided, the opportunity for discussion, and await final water master plan results.

6. POSSIBLE AGENDA ITEMS FOR NEXT MEETING

Items requested for the next regular Commission meeting agenda were as follows: update on the Water Infrastructure/Seismic/Structural Assessment, status of the Meter Replacement Program and how it impacts the water loss ratio, Clarification on the City's recently validated water loss audit and its impact on investing in infrastructure improvements; clarification of whether monies from the enterprise funds were transferred to the general fund for office space (rent) and other City-provided services for the new building acquired/slated for City Hall, and whether/confirmation that the reclaimed water discharged by Big Bear Lake impacts the quality of water delivered to Redlands.

7. ADJOURNMENT

There being no further business the meeting adjourned at 5:30 PM. The next regular meeting of the City of Redlands Municipal Utilities/Public Works Commission is scheduled for December 6, 2021.



City of
REDLANDS
Incorporated 1888
Municipal Utilities & Engineering Department

JOHN R. HARRIS
Director

MEMORANDUM

TO: Adekunle Ojo, Municipal Utilities/Public Works Commission Chair

FROM: John R. Harris, Municipal Utilities & Engineering Department Director

DATE: November 29, 2021

SUBJECT: December 2021 Director's Report

Hello and thank you for serving the Redlands community as a Municipal Utilities/Public Works Commissioner (MUPWC)! City of Redlands Municipal Code Chapter 2.38 establishes the responsibilities of the MUPWC as follows:

"The commission is a resource for the City Council and City staff and buffer with the general public. In its advisory capacity, the commission shall be knowledgeable of all public works, utilities and engineering programs. The commission shall, through the individual and collective expertise of its members, provide advice to the Public Works and Municipal Utilities Departments regarding the public acceptability of proposed plans, programs and projects."

300 E State Street Facility Purchase

The City recently purchased this property for use as a future Public Safety facility. Facilities and Community Services (FCS) Department staff is reviewing existing tenant agreements, considering necessary office space reconfigurations, and developing a timeline for City staff occupancy. FCS staff will present additional information about this facility acquisition during the meeting tonight.

Replenish Big Bear Project

Each year, Big Bear Area Regional Wastewater Authority (BBARWA) discharges approximately 2,000 AF of treated wastewater to a location outside the Santa Ana Watershed. This is approximately half of the Big Bear Valley's annual water supply. The Replenish Big Bear Project will recapture and treat this resource to drinking water standards and discharge it to Big Bear Lake through Stanfield Marsh. The original concept (2016) was to percolate this recycled water at as many as five (5) sites in the east end of Big Bear Valley, including Sand Canyon and Greenspot in the Erwin Lake area. This concept was later replaced (2018) with the current concept due to its high cost and single use benefit (potable water).

The project will discharge up to eighty (80) AF into Shay Pond to meet flow requirements for an endangered fish habitat. This requirement is currently met with pumped groundwater. An additional 380 AF will be conveyed from Big Bear Lake to Sand Canyon for recharge, where it will be pumped from the ground to supply potable water throughout the Big Bear Valley. The project will also provide approximately 120 AF of recycled water for golf course irrigation, which is currently provided by groundwater pumping.

The Big Bear Lake Department of Water and Power provides potable water to approximately 2/3 of the Valley, while the Big Bear City Community Service District provides potable water to the remaining 1/3 of the Valley. These distribution systems are connected through a system of pipes, pumps, and reservoirs. The project increases water supply reliability for both agencies.

The project is currently scheduled for completion in late-2025, although the availability of funding will significantly influence the project's delivery schedule. The current cost estimate to develop, construct, and maintain the project is \$56M, of which \$49M is the construction cost estimate. Grants totaling approximately ten percent (10%) of this cost have been received to date. Ongoing operation and maintenance costs are estimated to be \$2.7M each year.

The ultimate goal of the project is to enhance the local economy by keeping Big Bear Lake nearly full, even during dry years. This potentially benefits Redlands by allowing more reliable and frequent water releases from the Lake.

Update WWTP P2 Project Update

Parsons Engineering continues to develop and refine the WWTP Improvement Project Phase 2 design, and has made significant progress toward completion of the following design elements:

Task 1 – Conduct Facility Condition Assessment	P1 = 100%/P2 = 32%
Task 2 – Develop Multipurpose Project Report/Implementation Plan	100% Complete
Task 3 – Provide Engineering Design Services	P1 = 100%/P2 = 20%
Task 4 – PM, Communication, QC	P1 = 100%/P2 = 60%

The AB-52 (Tribal Consultation) process is complete. City Council will consider adoption of the CEQA document on December 7, 2021. This project is on-schedule and on-budget. MUED intends to submit a State Revolving Fund loan application for construction of these improvements prior to the December 31 submittal deadline.

Sunset Reservoir Replacement

MUED recently negotiated a Lease Agreement with the land owners adjacent to the Sunset Reservoir site that will allow a temporary reservoir to be constructed on their property prior to



demolishing and reconstructing a new permanent reservoir. The concept to purchase this property for the future construction of much large reservoirs cannot be refined until a calibrated water model is available. We anticipate this model will be available in late-December 2021.

Sidewalk/ADA Ramp Replacement Prioritization Methodology

On September 7, 2021, City Council awarded a construction contract for the 2021 Citywide Sidewalk and ADA Ramp Replacement Project to Universal Construction and Engineering (Indio, CA) in an amount not to exceed \$377,249.82. This is the first of a two phase project planned for FY 21/22. MUED staff is developing a scope of work for Phase 2, and will issue a Request for Bids in early-2022 when Measure T revenues have been analyzed.

The project will replace approximately 25,000 SF of lifted and broken sidewalk segments and twenty-nine (29) curb ramps in various locations throughout the City. Specific locations have been determined in accordance with the sidewalk repair matrix methodology (previously provided for review), approved by the MUPWC on August 24, 2015 and the City Council on September 1, 2015, and the ADA Ramp Survey Summary (previously provided for review) prepared by VA Consulting, Inc. on March 24, 2014. MUED hosted a project kick-off meeting on September 22, 2021, and the project will be complete in January 2022.

Universal Construction and Engineering has completed sidewalk in Area 1 and is currently working in Area 4. A project location map is provided as Attachment "A".

Water Loss Audit Validity

Each year, water providers are required to complete a water audit to assess and report system-wide unaccounted water losses to the California Water Resources Control Board Division of Drinking Water (SB 555). This is required by California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34. The audit must be independently validated in accordance with the American Water Works Association M36 Manual.

Generally, the process involves recording infrastructure data (miles of pipe, number of services, etc.), financial information (operating costs, retail water costs, etc.), water distribution volume, and water consumption volume. This information is used to estimate water system losses and associated costs. The report characterizes losses in a variety of ways, including percentage by volume of water supplied, percentage by cost of operating system, gallons per service connection per day, etc. The information is useful for identifying potential improvement focus areas, and as a general educational tool.

We recently completed the 2021 water audit, and our independent "Validation Consultant" (M.E. Simpson Co., Inc.) assigned a "Validity Score" of 79, which is higher than previous years. We will continue use this annual assessment as a CIP planning tool, and anticipate that the replacement of water meters throughout the City will substantially reduce water loss. The Water Audit Validation Worksheet is provided as Attachment "B".

Water Meter Replacement Project

We have begun a five (5) year project to replace all potable and non-potable water meters within the Redlands service area. Ferguson Waterworks was selected to supply and install the water meters, meter box lids, and Automated Metering Infrastructure (AMI) hardware for use in the future. Ferguson has mobilized and placed containers in the City Yard to receive and store water meters and water meter box lids. In order to minimize supply chain issues, they are ordering supplies months ahead of scheduled installation dates, and have already received several large diameter water meters. The expected delivery date for the meter box lids is March 2022. Some of the large diameter water meters will retain the existing meter box lids, which will be retrofit with the AMI hardware. Ferguson will install those water meters first. The City will provide meter box lids to keep the project on schedule, and Ferguson will replenish our stock when the ordered lids are delivered. During the Thanksgiving Holiday, when students are not attending classes, large water meters will be replaced at the school campuses.

Phase I (FY 21/22) of the project, detailed below, includes replacing older meters, and retrofitting recently replaced meters with AMI hardware:

SIZE	REPLACEMENTS	RETROFITS
5/8"	24	7
3/4"	537	463
1.0"	500	215
1.5"	112	85
2.0"	174	95
3.0"	55	15
4.0"	31	12
6.0"	16	10
8.0"	10	3

Replacements are scheduled between billing cycles to avoid disruptions during the meter reading and billing processes. Impacted customers will receive a project notice (Attachment "C") prior to water meter replacements. The goal of this notice is to make customers aware that Ferguson is working on behalf of the City, and to caution customers that the water usage portion of their combined services bill may increase when the more accurate meters are installed, despite typical water use practices. MUED contact information is provided for customers seeking additional information.

PMP Update

On March 9, a Request for Bids was issued for construction of the FY 20/21 Pavement Management Project (PMP). Soon after, I became aware of a potential contracting issue that could significantly impact this, and other Capital Improvement Projects (CIP). The RFB was rescinded on April 14 to provide staff the opportunity to consider responsible revisions to our procurement and contracting procedures that are in the City's best interest.

We combined the FY 20/21 and FY 21/22 PMPs into a single project, added necessary sanitary sewer collection system improvement elements, and issued a new RFB in early-July. The total budget, which is a combination of the FY 20/21 PMP, FY 21/22 PMP, and Wastewater Collection System Improvement budgets, is \$9,362,966 (\$4,901,966, \$4,000,000, and \$461,000 respectively). On July 21, we received bids from three (3) paving contractors. Match Corporation submitted the lowest bid of \$9,235,780, which is approximately two percent (2%) below the approved project budget. City Council awarded a Construction Contract to Match on September 7, 2021. MUED hosted a project kick-off meeting on September 20, 2021, and the project will be completed in June 2022 (approximately 30% complete currently).

Match is currently completing potholing activities and concrete curb/gutter replacements in Areas D & E. The sewer portion of the work is underway and will be completed in December. Match has already completed paving activities in Area A and B and will start Area C this week. A project location map is provided as Attachment “D”.

2021 Q3 Capital Improvement Project Update

The MUPWC is charged with, among other things, “*annually reviewing the City CIP under the purview of the Public Works and Municipal Utilities Departments*” (Municipal Code 2.38.030). However, during the December 7, 2020 MUPWC meeting, the Commission asked the MUED staff to provide quarterly CIP updates. A summary and status of CIP projects is provided in Attachment “E”.

As you know, the FY 21/22 CIP delivery schedule is aggressive, and success requires thoughtful project coordination and planning. To meet this obligation, MUED issued several RFBs and developed Sole Source Waiver recommendations for City Council consideration on June 15, which was the first meeting after approval of the FY 21/22 Operating Budget. That strategy is working well, and our CIP delivery is currently ahead of the anticipated schedule. Highlights of current project are provided below:

1. Multi-Year Well Rehabilitation & Booster Pump Replacements – Five (5) potable water wells, two (2) non-potable water wells, and two (2) booster pumps will be rehabilitated in FY 21/22 through a single task order. Additional task orders will be issued in each of the next two (2) fiscal years through contract extensions to rehabilitate thirteen (13) more wells, although MUED may recommend accelerating this schedule. A Purchase Order was issued on July 15, and a kick-off meeting was hosted on July 27. Following is a detailed summary of tasks with their progress:
 - a. Task 1.1 (Airport Well)-Project will begin after task 3.4 is completed. Estimated project start during the week of 1/31/22. Estimated lead time for project completion is 6-8 weeks after pump is pulled (week of 3/28/22);
 - b. Task 1.2 (Church Street Well) - Project will begin after task 1.1 is complete. Estimated project start during the week of 4/4/22. Estimated time for completion is 6-8 weeks after pump is pulled (week of 5/20/22);

- c. Task 1.3 (East Lugonia 3 Well) – Complete;
 - d. Task 1.4 (East Lugonia 6 Well) – In progress. Well pump and piping has been pulled and video performed. The next step is to brush and bail the well. Estimated completion date is 12/20/21;
 - e. Task 1.5 (N Orange 1 Well) - Scheduled for early-January 2022. Estimated time for completion is 6-8 weeks after pump is pulled;
 - f. Task 1.6 (31A Well) – In Progress. Brushing, bailing, and video survey are complete. The scope of work was revised to include pump testing. General Pump is building a test pump;
 - g. Task 1.7/Task 3.4 (SB Municipal Well) - Revised scope to include expanded pipeline expected to be completed in late-November 2021. San Bernardino Valley Municipal Water District will provide partial reimbursement for this work;
 - h. Task 1.8 (2310 Booster) – In Progress. Approval for pump procurement received 10/27/21. Estimated pump lead time is 8-10 weeks. Estimated completion in late-January 2022;
 - i. Task 1.9 (2311Booster) - Project will begin after task 1.8 is complete. Estimated pump lead time is 8-10 weeks from submittal approval. Staff is currently reviewing pump submittal;
2. Water Meter Replacements – See summary above.
 3. Water Infrastructure Condition, Seismic, & Structural Assessment – Several progress meetings have been conducted with Brady & Associates (Brady) since the April 1 kick-off meeting. Initially, Brady focused on assessment of the Sunset Reservoir, and determined that it must be replaced soon. Brady and MUED staff met with adjacent property owners to discuss a temporary lease of private property, upon which a temporary water storage tank will be installed and operated while the Sunset Reservoir is replaced. The property owners are also interested in selling the property (approximately 20 acres) if acceptable terms can be negotiated. This may allow MUED to construct a larger reservoir, or multiple reservoirs, to begin consolidating water storage facilities. This project is on-schedule and significantly under-budget.
 4. Sunset Reservoir/Recycled Water Reservoir Engineering – A scope of work was initially developed to engineer all three (3) reservoirs, with separate Plan, Specification, and Estimate (PS&E) packages. The recent developments related to the Sunset Reservoir drove MUED to separate this into two (2) design projects. A Request For Proposals was recently issued for the Recycled Water Reservoir Engineering Project. Proposals were received by three (3) consultants, and we are currently negotiating a services fee with Carollo Engineers. This recommendation is currently scheduled for the December 21, 2021 City Council meeting.
 5. Citywide Sidewalk and ADA Ramp Replacements – See summary above.
 6. AWIA Risk & Resiliency/Emergency Response Plan – This is a 2018 mandate for utilities serving more than 3,300 customers. Carollo Engineering recently completed this project, and MUED is prioritizing implementation of various plan elements.
 7. Tate WTP PLC Controller – A Sole Source Waiver recommendation has been developed to hire Tesco Controls (Tesco), who completed the first half of this project in FY 20/21.

Procurement of the remaining FY 21/22 CIP work will occur within the next few months. A couple of these projects (Hinckley WTP Sludge Press, Tank Mixer Installations) are relatively simple to procure. The final phase of our Water System SCADA Project is currently being designed, and implementation will follow soon after. The Tate WTP Transmission Line Replacement Project engineering scope of work has been developed, and we intend to issue a RFP soon. The Well Perchlorate Treatment Evaluation scope of work will be developed soon. The FY 21/22 Waterline Replacement Project is being engineered in-house, and the construction phase will bid in winter 2021.

Wastewater Treatment Plant Project Update

As you know, Phase 1A of the WWTP Rehabilitation Project was successfully completed and accepted in November 2020. GSE Construction Company, Inc. was awarded a contract to construct Phase 1B of the Project in November 2020. The project includes supplying and/or installing the following equipment, which has been plagued by significant COVID-19 related delays:

1. Fine Screens and Associated Equipment: Removes objects to prevent damage to the newly installed MBR filters.
 - a. Status: Installation completed with the exception of a large valve; Commissioning is on hold pending completion of the IPW system.
2. Ejector Priming System Upgrades: Removes air from the permeate vessel to prevent air locking of pumps.
 - a. Status: Installed and commissioned.
3. Scour Blowers and Associated Equipment: Creates air scouring, which provides premium efficiency and cost savings to the City. The blowers operate on a 24-hour basis, producing scour air that backwashes the filter media.
 - a. Status: Installed and commissioned.
4. Digester Boilers and Heat Exchangers: Maintains proper temperature for bacteria to decompose sewage sludge and produce digester gas.
 - a. Status: Underground ductwork complete and above ground conduits currently being installed; Demolition of boilers for digester 1 & 2 on hold pending completion of the gas conditioning system; Demolition of boilers for digester 3 on hold pending completion of work for digesters 1 & 2. Complete commissioning expected in March.
5. Gas Conditioning System: Cleans and conditions the gas to burn cleaner in the boilers to meet air quality regulations.
 - a. Status: Equipment pad has been built and equipment set; Commissioning planned for early January.
6. Impure Water Pump (IPW) System: Pumps, controls and associated piping to provide consistent and reliable water pressure to the fine screens.
 - a. Status: Piping has been installed; GSE is waiting for delivery of pumps.

The original WWTP P1B Project budget is approximately \$6.1M. Separately, the FY 20/21 Wastewater Operating Budget included approximately \$350K for WWTP SCADA improvements intended to be completed by Tesco Controls, Inc. In December 2020, this work was authorized as a change order (\$313,344) through the GSE Construction contract to avoid costly project delays. Additional change orders totaling approximately \$280K have been authorized, primarily to resolve subsurface utility conflicts. So, while the available P1B contingency is nearly exhausted, approximately half is associated with a separately budgeted Wastewater Fund project. We recently learned that the addition of an impure water pump (IPW) station and associated piping will be necessary to provide consistent and reliable water pressure to the fine screens. This was originally planned for construction during the WWTP P2 Project. On September 21, 2021, City Council approved a contract amendment adding approximately \$751K to the GSE Construction contract for SCADA implementation and construction of the IPW station.

Engineering of the WWTP P2 Project is progressing well. Approximately \$3.6M remains in the original Parsons Engineering contract. This project is on-budget and on-schedule. Parsons and MUED staff communicate multiple times each week to ensure a State Revolving Fund application is submitted for construction of this project prior to the submittal deadline.

Water Conservation Rebate Program Update

The City’s Water Efficiency Rebate Program was adopted by Resolution No. 7655 on July 5, 2016. The Program assists the City in complying with mandates in the 2009 Water Conservation Act, and incentivizes water conservation within our service area. The Resolution describes incentives for each of the following: High Efficiency Sprinklers, Weather-Based Irrigation Controllers, Synthetic Turf/Irrigation-Less Groundcover Conversions, High Efficiency Washing Machines, High Efficiency Toilets, Drought Tolerant Plant Conversions and Small Grove Irrigation System Retrofits. During the last year, approved rebates for high efficiency sprinklers, weather-based irrigation controllers, and synthetic turf/irrigation-less groundcover conversion have decreased, while approved rebates for high efficiency washing machines and toilets, and drought tolerant plant conversions have increased.

Rebate amounts for each are listed below:

High Efficiency Sprinklers:	\$4/Sprinkler
Weather Based Irrigation Controller:	Up To \$150
High Efficiency Washing Machine:	\$100
High Efficiency Toilet:	Up To \$100
Drought Tolerant Landscape Conversion:	\$0.61/SF
Synthetic Turf/Irrigation-less Groundcover Conversion:	\$1/SF (\$300 max)
Small Grove Irrigation System Retrofit:	Up To \$1,000
Other:	\$1/150 Gallons Saved Annually
(\$500/Customer/Fiscal Year Total Combined Rebate Maximum)	

MUED staff will consider the following rebate programs/changes in the near future:



- Leak Detection Technology
- Large Site Turf Conversion Rebates
- Re-evaluate Rebate Amounts
- Increase Annual Rebate Amount Cap

Water conservation became a “way-of-life” in Redlands almost a decade ago. Since then, approximately 6,000 residents have reported water waste incidents, and more than 12,000 water waste warnings and citations have been issued. MUED have resumed in-person audits, with appropriate COVID-19 prevention protocols, with customers in May 2021.

On August 9, 2021, the MUPWC requested the following additional information about the Water Conservation Program:

- Water Waste Reports – More than 13,000 since WCP inception
 - 1st Violations – 9,244
 - 2nd Violations – 3,157
 - 3rd Violations – 624 (> \$50,000 in penalties)
- Rebates Issued During Previous Year (Total Number/Total Value/Previous Year Comparison)

○ High Efficiency Sprinklers	48/\$192/-95%
○ Weather-Based Irrigation Controllers	32/\$4,800/-14%
○ Synthetic Turf/Irrigation-Less Groundcover Conversion	1586sf/\$1586/-42%
○ High Efficiency Washing Machines	13/\$1300/+85%
○ High Efficiency Toilets	19/\$1900/+21%
○ Drought Tolerant Plant Conversions	7080sf/\$2542/+52%
○ Small Grove Irrigation System Retrofit	0/\$0/0%
○ Other (Rotors-To-Drip)	1/\$500/0%

MUED staff is updating the Redlands Municipal Code (RMC) Chapter 13.06 Water Conservation Plan. The RMC update will include a holistic evaluation of the Water Efficiency Rebate Program, with an emphasis on expanding the most successful program elements, and improving our marketing of the less successful elements.

As always, feel free to contact me anytime to discuss MUED issues, programs, projects, or concerns.

John R. Harris
jharris@cityofredlands.org
 (909) 725-1963

Attachments:

- A. Sidewalk/ADA Ramp Replacement Project Location Map
- B. 2020 Water Audit Validation Worksheet
- C. Water Meter Replacement Project Notification
- D. Pavement Management Project Location Map
- E. CIP Project Status Worksheet





MUNICIPAL UTILITIES/PUBLIC WORKS COMMISSION 2022 MEETING SCHEDULE

January

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

April

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

July

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

October

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

February

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

May

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

August

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

November

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

March

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

June

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

September

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

December

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31



LEGEND

MU/PW Commission Regular Meeting is 1st Monday, even months

MU/PW Commission Special Meeting

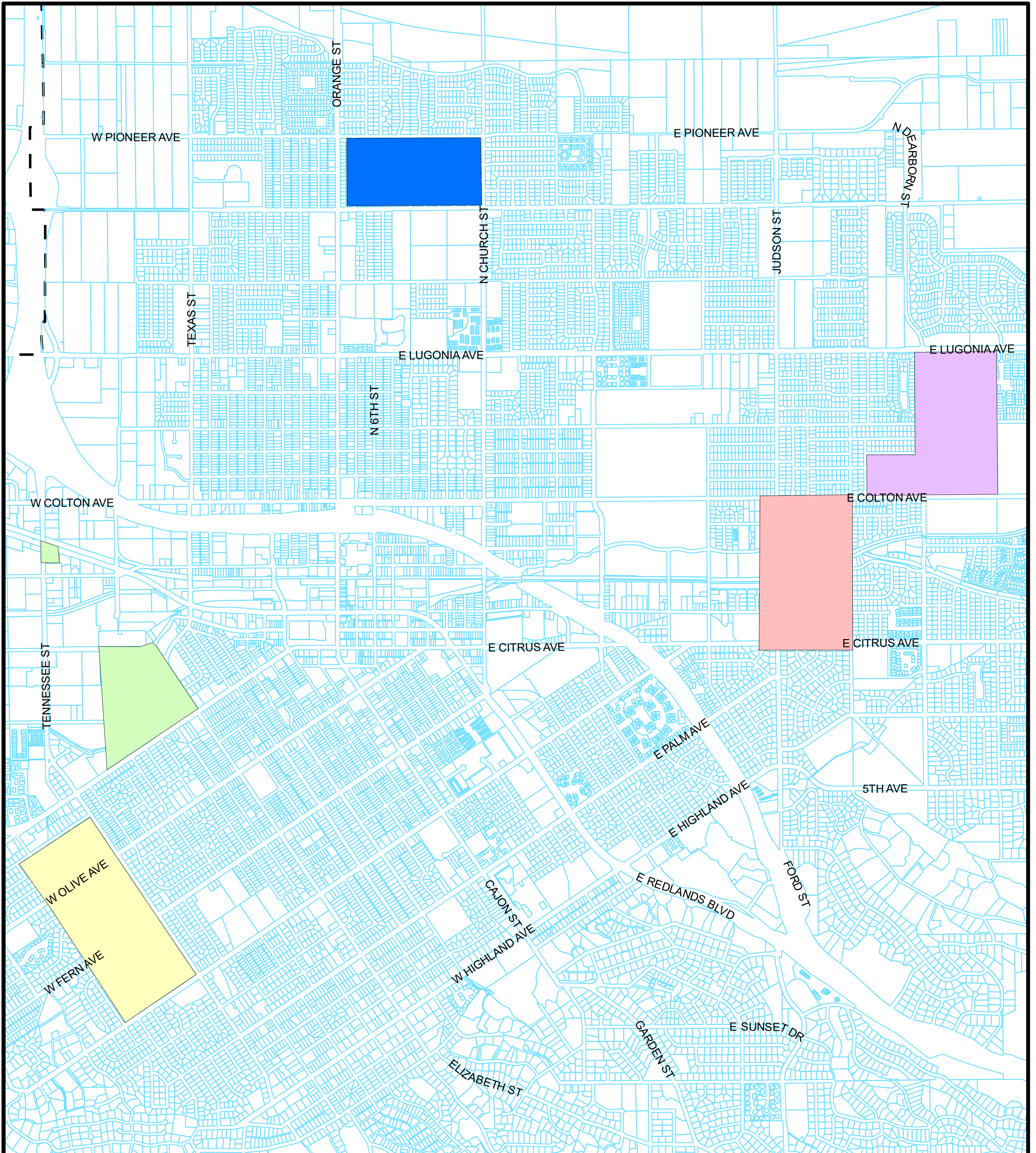
City Council Meeting Meeting

City Council Meeting of Jan. 4 is cancelled.

City Hall Closed for Holiday Observed or Friday Closed due to 9/80 schedule

CITY STAFF CONTACT FOR MUPW COMMISSION:

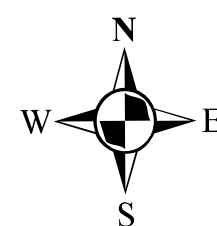
Jane Weathers, 909-798-7527 x4145, jweathers@cityofredlands.org
 Goutam Dobe, Engineering Manager, 909-798-7584 x4834,
gdobey@cityofredlands.org
 Kevin Watson, Utilities Operations Manager, 909-798-7698x 4223
 John Harris, Director, 909-798-7658, jharris@cityofredlands.org



2021 CITYWIDE SIDEWALK AND ADA RAMP REPLACEMENT PROJECT LOCATION MAP

Legend:

- Completed Projected Area 1
- In-Progress Projected Area 2
- Projected Area 3
- In-Progress Projected Area 4
- In-Progress Projected Area 5



AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0

American Water Works Association
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Click to access definition
 Click to add a comment

Water Audit Report for:
Reporting Year:

Please enter data in the white cells below. Where available, metered values should be used; if metered values are unavailable please estimate a value. Indicate your confidence in the accuracy of the input data by grading each component (n/a or 1-10) using the drop-down list to the left of the input cell. Hover the mouse over the cell to obtain a description of the grades

All volumes to be entered as: ACRE-FEET PER YEAR

To select the correct data grading for each input, determine the highest grade where the utility meets or exceeds all criteria for that grade and all grades below it.

----- Enter grading in column 'E' and 'J' ----->

WATER SUPPLIED

Volume from own sources:	<input type="text" value="8"/>	<input type="text" value="24,464.600"/>	acre-ft/yr
Water imported:	<input type="text" value="n/a"/>	<input type="text" value="0.000"/>	acre-ft/yr
Water exported:	<input type="text" value="7"/>	<input type="text" value="81.000"/>	acre-ft/yr

Master Meter and Supply Error Adjustments

		Pcnt:	Value:		
<input type="text" value="3"/>	<input type="text" value="0.00%"/>	<input type="radio"/>	<input type="radio"/>	<input type="text" value=""/>	acre-ft/yr
<input type="text" value="3"/>	<input type="text" value="0.00%"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="text" value=""/>	acre-ft/yr

Enter negative % or value for under-registration
Enter positive % or value for over-registration

WATER SUPPLIED: acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	<input type="text" value="8"/>	<input type="text" value="20,241.481"/>	acre-ft/yr
Billed unmetered:	<input type="text" value="n/a"/>	<input type="text" value="0.000"/>	acre-ft/yr
Unbilled metered:	<input type="text" value="9"/>	<input type="text" value="893.64"/>	acre-ft/yr
Unbilled unmetered:	<input type="text" value="5"/>	<input type="text" value="60.959"/>	acre-ft/yr

Click here: for help using option

Pcnt:	Value:		
<input type="radio"/>	<input type="radio"/>	<input type="text" value="60.959"/>	acre-ft/yr

Use buttons to select percentage of water supplied
OR
value

AUTHORIZED CONSUMPTION: acre-ft/yr

WATER LOSSES (Water Supplied - Authorized Consumption)

acre-ft/yr

Apparent Losses

Unauthorized consumption: acre-ft/yr

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

Customer metering inaccuracies:	<input type="text" value="6"/>	<input type="text" value="1,590.816"/>	acre-ft/yr
Systematic data handling errors:	<input type="text" value=""/>	<input type="text" value="50.604"/>	acre-ft/yr

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

Apparent Losses: acre-ft/yr

Pcnt:	Value:		
<input type="radio"/>	<input checked="" type="radio"/>	<input type="text" value="0.25%"/>	acre-ft/yr

<input type="radio"/>	<input checked="" type="radio"/>	<input type="text" value="7.00%"/>	acre-ft/yr
<input type="radio"/>	<input type="radio"/>	<input type="text" value="0.25%"/>	acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: acre-ft/yr

WATER LOSSES: acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	<input type="text" value="9"/>	<input type="text" value="396.600"/>	miles
Number of active AND inactive service connections:	<input type="text" value="9"/>	<input type="text" value="22,397.000"/>	
Service connection density:	<input type="text" value=""/>	<input type="text" value="56"/>	conn./mile main

Are customer meters typically located at the curbstop or property line?

Average length of customer service line:

(length of service line, beyond the property boundary, that is the responsibility of the utility)

Average length of customer service line has been set to zero and a data grading score of 10 has been applied

Average operating pressure: psi

COST DATA

Total annual cost of operating water system:	<input type="text" value="10"/>	<input type="text" value="\$29,670,364"/>	\$/Year
Customer retail unit cost (applied to Apparent Losses):	<input type="text" value="10"/>	<input type="text" value="\$2.57"/>	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	<input type="text" value="8"/>	<input type="text" value="\$146.07"/>	\$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 79 out of 100 *****

A weighted scale for the components of consumption and water loss is included in the calculation of the Water Audit Data Validity Score

PRIORITY AREAS FOR ATTENTION:

Based on the information provided, audit accuracy can be improved by addressing the following components:

- 1: Volume from own sources
- 2: Customer metering inaccuracies
- 3: Unauthorized consumption



AWWA Free Water Audit Software: System Attributes and Performance Indicators

Water Audit Report for: **City of Redlands (CA 3610037)**
Reporting Year: **2020** **1/2020 - 12/2020**

*** YOUR WATER AUDIT DATA VALIDITY SCORE IS: 79 out of 100 ***

System Attributes:

Apparent Losses:	1,702.378	acre-ft/yr
+ Real Losses:	1,485.142	acre-ft/yr
= Water Losses:	3,187.520	acre-ft/yr
? Unavoidable Annual Real Losses (UARL):		
Annual cost of Apparent Losses:	\$1,905,799	
Annual cost of Real Losses:	\$216,935	

Valued at **Variable Production Cost**
Return to Reporting Worksheet to change this assumption

Performance Indicators:

Financial:	{	Non-revenue water as percent by volume of Water Supplied:	17.0%		
		Non-revenue water as percent by cost of operating system:	7.6%		Real Losses valued at Variable Production Cost
Operational Efficiency:	{	Apparent Losses per service connection per day:	67.86	gallons/connection/day	
		Real Losses per service connection per day:	59.20	gallons/connection/day	
		Real Losses per length of main per day*:	N/A		
		Real Losses per service connection per day per psi pressure:	0.68	gallons/connection/day/psi	
		From Above, Real Losses = Current Annual Real Losses (CARL):	1,485.14	acre-feet/year	
		? Infrastructure Leakage Index (ILI) [CARL/UARL]:	2.77		

* This performance indicator applies for systems with a low service connection density of less than 32 service connections/mile of pipeline



AWWA Free Water Audit Software: Water Balance

WAS v5.0
American Water Works Association
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Water Audit Report for: **City of Redlands (CA 3610037)**

Reporting Year: **2020**

1/2020 - 12/2020

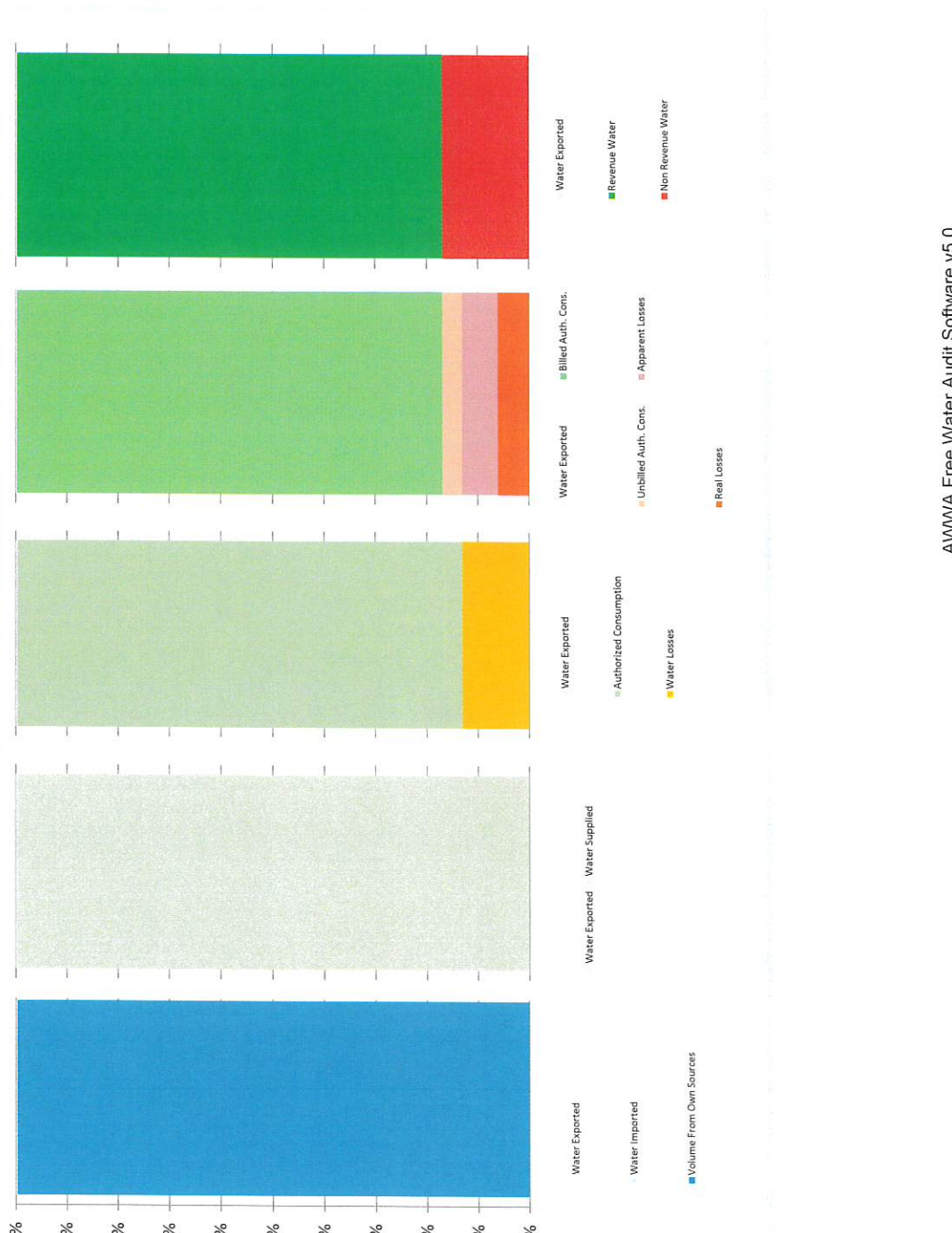
Data Validity Score: **79**

	Water Exported 81.000		Billed Water Exported		Revenue Water 81.000
			Billed Metered Consumption (water exported is removed)		Revenue Water
Own Sources (Adjusted for known errors)		Authorized Consumption 20,241.481	Billed Authorized Consumption 20,241.481	Billed Unmetered Consumption 0.000	Revenue Water 20,241.481
24,464.600		21,196.080	Unbilled Authorized Consumption 954.599	Unbilled Metered Consumption 893.640	
	System Input 24,464.600		Apparent Losses 1,702.378	Unbilled Unmetered Consumption 60.959	Non-Revenue Water (NRW) 4,142.119
	Water Supplied 24,383.600		Water Losses 3,187.520	Unauthorized Consumption 60.959	
				Customer Metering Inaccuracies 1,590.816	
				Systematic Data Handling Errors 50.604	
				Leakage on Transmission and/or Distribution Mains Not broken down	
				Leakage and Overflows at Utility's Storage Tanks Not broken down	
				Leakage on Service Connections Not broken down	
Water Imported 0.000			Real Losses 1,485.142		

Water Audit Report for: City of Redlands (CA 3610037)
 Reporting Year: 2020
 Data Validity Score: 79

Show me the VOLUME of Non-Revenue Water
 Show me the COST of Non-Revenue Water

Total Cost of NRW = \$2,262,172



City of REDLANDS



The City of Redlands will begin replacing residential and commercial water meters in November 2021.

The City has partnered with Ferguson Waterworks to replace the water meters. You may see uniformed employees with the Ferguson Waterworks & City of Redlands logos on their vehicles working throughout the city. They have been authorized to upgrade your water meter.



Please note: Although you may not be using more water, you may notice an increase in the water usage portion of your combined bill. This is likely due to the replacement of older, inaccurate water meters. Water rates are not being increased.

Benefits

- ✓ Utilize newer technology for reading water meters
- ✓ Displays read in billing units of CCF
- ✓ Detects real-time water usage
- ✓ Over 60 days of water usage data can be retrieved



What To Expect & How to Read Your Meter

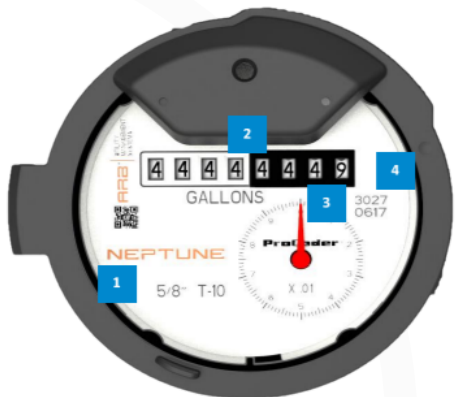


What To Expect

- Meter installations will occur Monday-Friday from 8:00 am to 4:00 pm.
- Installations will begin in November 2021 and will typically take twenty minutes to complete.
- Customers will receive door tag notifications before & after the meter has been installed.
- If a leak is detected, city staff and the customer will be notified prior to changing out the meter.
- Customers do not have to be home during the installation.
- Individual water service may be briefly interrupted during installations.
- Customers requiring special accommodations should call the City of Redlands at (909) 798-7516 to make arrangements, if necessary.

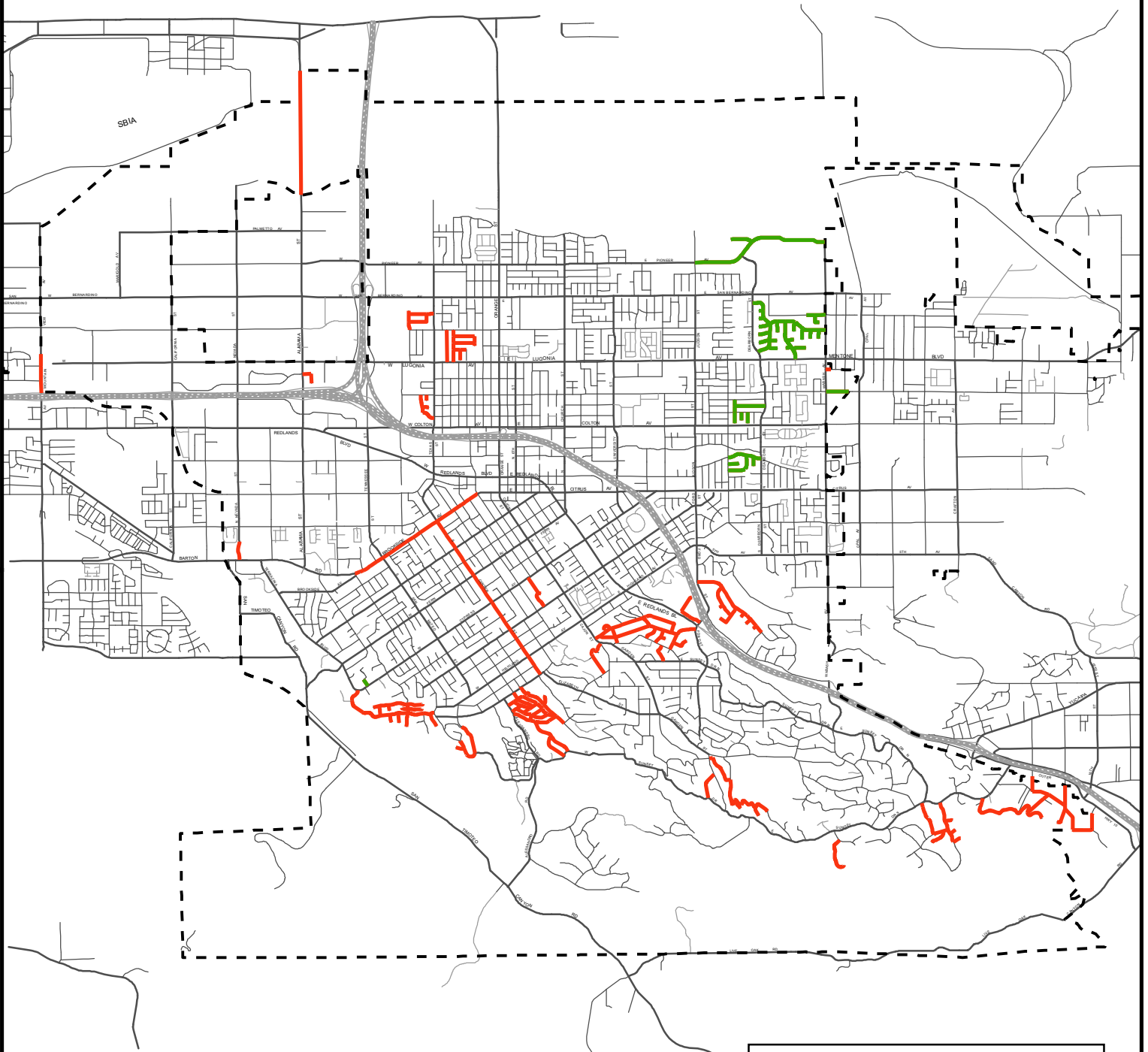
How To Read The Neptune® ProCoder™ Register




- 1 **Product Size & Type**
- 2 **Mechanical Wheel Bank**
- 3 **Sweep Hand**
- 4 **Date of Manufacture**



PMP 2021 Street Resurfacing Project

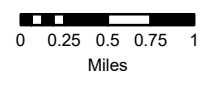
Location Map



	PMP 2021 Completed
	PMP 2021 Streets
	City of Redlands



This map was produced by the City of Redlands, Geographic Information System. The City of Redlands assumes no warranty or legal responsibility for the information contained on this map. The data used to generate this map is dynamic in nature, therefore the information shown may or may not be the most current.



MUNICIPAL UTILITIES AND ENGINEERING DEPARTMENT
CIP PROJECTS LIST

PLANNING		Org Key	PL	Project Name	Project Phase	Progress	Consultant/Contractor	PM/Engineer	Current Budget
P1	WATER	501910		Tank Mixers Installation	PLANNING	1%		Paul	\$100,000.00
P2	WATER	501910	501009	Hinckley Sludge Press	PLANNING	1%		Goutam/Paul	\$300,000.00
P3	WATER	501910		Tate WTP Transmission Line Assessment	PLANNING	1%		Goutam/Paul	\$100,000.00
P4	WATER	501910		Tate PLC Replacement	PLANNING	1%		Paul	\$200,000.00
P5	WATER	501910	501007	Agate Well #2 Rehabilitation	PLANNING	5%		Paul/Goutam	\$175,000.00
P6	WATER	501910		Wellhead Perchlorate Treatment Evaluation	PLANNING	1%		Goutam/Paul	\$150,000.00
P7	WASTEWATER	521910		Alabama Septage Pond Remediation	PLANNING	25%		Johana	\$240,000.00
P8	WASTEWATER	521910		WWTP Drying bed leachate Remediation	PLANNING	1%		Johana	\$250,000.00
P9	NON-POTABLE	531910		Recycled Water Reservoirs	PLANNING	50%		Kevin	\$180,000.00
P10	GENERAL FUND	101400	400018	Citywide Storm Drain Improvements Project	PLANNING	1%		Gerard	\$500,000.00
P11	WATER	501910	501022	Hinckley/Tate Roof Repair Project	PLANNING	1%		Paul	\$100,000.00
P12	WATER	501910	501030	Hinckley WTP Safety Fencing Project	PLANNING	1%		Paul	\$40,000.00
P13	WATER	501910	501028	Reservoir Sites Fixed Generators (Tx. St. / C.C. / 5th Ave.)	PLANNING	30%		Veronica/Paul	\$750,000.00
P14	WATER	501910	501003	Sunset Reservoir Recoating & Improvement Project	PLANNING	5%		Kevin	\$700,000.00
P15	CDBG	200164	F164001	18/19 CDBG Civic Center ADA Improvements	PLANNING	1%		Veronica	\$94,525.00
Planning Projects - Cost Summary									\$3,879,525.00
DESIGN		Org Key	GL	Project Name	Project Phase	Progress	Consultant/Contractor	PM/Engineer	Current Budget
D1	WATER CONSV	501910	501002	Brookside Median Landscape Improvements	DESIGN	65%		Cecilia/Veronica	\$120,000.00
D2	PMP/GF	211910	211005	Alley Paving Improvements	DESIGN	50%		Elva	\$1,350,000.00
D3	PMP	211910	211004	SBCounty/Mentone/Redlands Paving Project	DESIGN	90%		Goutam	\$78,750.00
D4	ARTERIAL	252400	252001	Citrus Avenue Widening Project	DESIGN	65%		Elva	\$700,000.00
D5	TRAFFIC SIGNAL	253400	253007	Traffic Signal Improvements (Brockton/University)	DESIGN	65%		Elva	\$600,000.00
D6	WATER	501910	501006	Water System SCADA Design & Integration - Final Phase	DESIGN	99%	TESCO Controls, Inc.	Goutam	\$3,700,000.00
D7	HSIP C8	240400	F400001	HSIP Cycle 8 - Signal Preemption Project	DESIGN	65%	AGA Engineers, Inc.	Veronica	\$1,173,791.00
D8	HSIP C9	240400	F400003	HSIP Cycle 9 – Pedestrian In-Roadway Lights	DESIGN	65%		Veronica	\$250,000.00
D9	WATER	501910	501004	Hinckley WTP Backup Generator Replacement	DESIGN	25%		Paul	\$140,000.00
D10	ATP Cycle 2	240400	C400005	ATP Highland/Redlands Regional Connector - Orange St	DESIGN	65%	KOA Consultants	Veronica	\$1,532,843.00
D11	ATP Cycle 3	240400	C400007	ATP East Valley Corridor Bike Rte Interconnect - Alabama	DESIGN	75%	KOA Consultants	Veronica	\$2,112,000.00
D12	TDA	240400	S241001	Orange Blossom Trail - Phase 3	DESIGN	99%		Gerard	\$918,722.00
D13	HSIP C8	240400	F400003	HSIP Cycle 8 - Pedestrian Heads Project	DESIGN	95%		Veronica	\$260,000.00
Design Projects - Cost Summary									\$12,936,106.00
BID & AWARD		Org Key	GL	Project Name	Project Phase	Progress	Consultant/Contractor	PM/Engineer	Current Budget
B1	WATER	501910	501039	2021 CIP Water Pipeline Replacement	BID & AWARD	25%		Gerard	\$4,500,000.00
B2	WASTEWATER	521910	521021	2021 CIP Sewer Pipeline Replacement	BID & AWARD	90%	Southwest Pipeline & Trenchless Corp.	Johana	\$309,852.00
Bid & Award Project - Cost Summary									\$4,809,852.00
CONSTRUCTION		Org Key	GL	Project Name	Project Phase	Progress	Contractor	PM/Inspector	Contract Amount
C1	SBCTA	254400	254002	I-10/Alabama Street Improvement (\$15,150,600)	CONST	1%	Ortiz Enterprises, Inc.	Kyle/Darren	\$2,506,921.00
C2	GENERAL FUND	101400	400015	Citywide Sidewalk and ADA Ramp Replacement Project	CONST	25%	Universal Construction & Engineering	Elva/Daniel	\$377,249.82
C3	PMP	211910	211003	PMP 2021 Street Resurfacing Project	CONST	15%	Match Corp	Gerard/Frannie	\$9,235,780.00
C4	WATER	501910	501037	Citywide Potable Water Meter Replacements	CONST	5%		Paul	\$1,815,000.00

MUNICIPAL UTILITIES AND ENGINEERING DEPARTMENT
CIP PROJECTS LIST

C5	NON-POTABLE	531910	531006	Citywide Non-Potable Water Meter Replacement	CONST	5%		Paul	\$93,000.00
C6	WATER	501910	501005	Wells and Booster Pump Maintenance	CONST	15%		Paul	\$1,034,181.10
C7	SBCTA	254400	254001	I-10/University Interchange Project (\$5,812,935)	CONST	50%	SBCTA/ADVANTEC/SEMA	Kyle/Darren	\$1,234,260.00
C8	WATER	501910	501031	2020 CIP Water Pipeline Replacement	CONST	90%	Tryco General Engineering	Gerard/Daniel	\$2,025,170.00
C9	WASTEWATER	521910	521006	MBR & Digester Improvements Project- Phase 1B	CONST	75%	GSE Construction Co. Inc.	Goutam/Darren	\$6,128,100.00
C10	WATER	501910	501006	Water System SCADA Design & Integration	CONST	99%	Baker Electric, Inc.	Goutam/Paul	\$3,050,609.00
C11	WATER	501910	71060	2020 Citywide Pavement Repair for Water Projects	CONST	25%	Tryco General Engineering	Goutam/Daniel	\$429,020.00
C12	SBCTA	-	400010	Redlands Passenger Rail Project - SBCTA	CONST	98%	Flat Iron	Kyle/Ross/Darren	\$0.00
<i>Construction Projects - Cost Summary</i>									<i>\$27,929,290.92</i>
Project Total Dollars									\$49,554,773.92