



**ENGINEERING, OPERATIONS, AND
WATER RESOURCES
COMMITTEE MEETING
OF THE BOARD OF DIRECTORS
INLAND EMPIRE UTILITIES AGENCY***

**WEDNESDAY, JANUARY 13, 2021
9:45 A.M.**

**INLAND EMPIRE UTILITIES AGENCY*
VIEW THE MEETING LIVE ONLINE AT IEUA.ORG
TELEPHONE ACCESS: (415) 856-9169 / Conf Code: 316 524 615#**

PURSUANT TO THE PROVISIONS OF EXECUTIVE ORDER N-25-20 ISSUED BY GOVERNOR GAVIN NEWSOM ON MARCH 12, 2020, AND EXECUTIVE ORDER N-29-20 ISSUED BY GOVERNOR GAVIN NEWSOM ON MARCH 17, 2020 AND IN AN EFFORT TO PROTECT PUBLIC HEALTH AND PREVENT THE SPREAD OF COVID-19, THERE WILL NO PUBLIC LOCATION FOR ATTENDING IN PERSON.

The public may participate and provide public comment during the meeting by dialing into the number provided above. Alternatively, public comments may be emailed to the Board Secretary/Office Manager Denise Garzaro at dgarzaro@ieua.org no later than 24 hours prior to the scheduled meeting time. Comments will be read into the record during the meeting.

CALL TO ORDER

PUBLIC COMMENT

Members of the public may address the Board on any item that is within the jurisdiction of the Board; however, no action may be taken on any item not appearing on the agenda unless the action is otherwise authorized by Subdivision (b) of Section 54954.2 of the Government Code. Those persons wishing to address the Board on any matter, whether or not it appears on the agenda, are requested to email the Board Secretary/Office Manager no later than 24 hours prior to the scheduled meeting time or address the Board during the public comments section of the meeting. Comments will be limited to three minutes per speaker. Thank you.

ADDITIONS TO THE AGENDA

In accordance with Section 54954.2 of the Government Code (Brown Act), additions to the agenda require two-thirds vote of the legislative body, or, if less than two-thirds of the members are present, a unanimous vote of those members present, that there is a need to take immediate action and that the need for action came to the attention of the local agency subsequent to the agenda being posted.

1. **CONSENT ITEMS**

A. **MINUTES**

Approve Minutes of the December 9, 2020 Engineering, Operations, and Water Resources Committee meeting.

B. **PREDESIGN CONTRACT AWARD FOR FIVE PROJECTS FISCAL YEAR 2020/2021**

Staff recommends that the Committee/Board:

1. Award a consultant contract for the Five PDR Projects Fiscal Year 20/21, which includes the RP-4 Contact Basin Cover/Wet Well Passive Overflow, Montclair Force Main Improvements, 8th St. RW Turnout Connection to 1630 W. Pipeline, Ely Monitoring Well, and RP-1 Old Effluent Structure Replacement, Project No.'s EN21041, EN21045, EN21050, EN21051, and EN21053, to GHD Inc., for the not-to-exceed amount of \$478,973; and
2. Authorize the General Manager to execute the consultant contract, subject to non-substantive changes.

C. **SMALL SITE CONTROLLER UPGRADE PROGRAM CONTRACT AMENDMENT**

Staff recommends that the Committee/Board:

1. Approve a contract amendment with Conserv Construction, Inc. for the Small Site Controller Upgrade Program for a not-to-exceed amount of \$462,000, increasing the contract from \$600,000 to \$1,062,000 (44% increase); and
2. Authorize the General Manager to execute the contract amendment, subject to non-substantive changes.

D. **RP-1 AERATION MEMBRANE REPLACEMENT MATERIAL SOLE SOURCE PROCUREMENT**

Staff recommends that the Committee/Board:

1. Approve a material procurement, as a sole source, for the Agency-Wide Aeration, Project No. PA17006, through Parkson Corporation, for a not-to-exceed amount of \$433,732; and
2. Authorize the General Manager to execute the procurement, subject to non-substantive changes.

E. BRINE SEWER SYSTEM AND REGIONAL SEWER SYSTEM MANHOLE UPGRADE CONSTRUCTION CONTRACT AWARD

Staff recommends that the Committee/Board:

1. Award a construction contract for the BSS Manhole Upgrades FY20/21 and RSS Manhole Upgrades FY20/21, Project No's. EN21014 and EN21015, to Norstar Plumbing and Engineering, Inc., in the amount of \$283,995; and
2. Authorize the General Manager to execute the contract, subject to non-substantive changes.

F. 1158 EAST & WEST RESERVOIR REHABILITATION CONSTRUCTION CHANGE ORDER

Staff recommends that the Committee/Board:

1. Approve a construction change order for the 1158 East & West Reservoir Rehabilitation, Project Nos. EN21004 & EN22004, to Spiess Construction Company, for the not-to-exceed amount of \$146,548.50, increasing the contract from \$2,985,479 to \$3,132,027, 4.9% increase; and
2. Authorize the General Manager to execute the change order, subject to non-substantive changes.

2. INFORMATION ITEMS

A. OVERVIEW OF PROPOSED REGIONAL WASTEWATER ORDINANCE NO. 109 (POWERPOINT)

B. RP-5 EXPANSION PROJECT UPDATE (POWERPOINT)

C. 2nd QUARTER PLANNING & ENVIRONMENTAL RESOURCES UPDATES (POWERPOINT)

D. OPERATIONS DIVISION QUARTERLY UPDATE (POWERPOINT)

RECEIVE AND FILE INFORMATION ITEM

E. ENGINEERING AND CONSTRUCTION MANAGEMENT PROJECT UPDATES (POWERPOINT)

3. GENERAL MANAGER'S COMMENTS

4. COMMITTEE MEMBER COMMENTS

5. COMMITTEE MEMBER REQUESTED FUTURE AGENDA ITEMS

ADJOURN

*A Municipal Water District

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Board Secretary/Office Manager (909-993-1736), 48 hours prior to the scheduled meeting so that the Agency can make reasonable arrangements.

DECLARATION OF POSTING

I, Denise Garzaro, Board Secretary/Office Manager of the Inland Empire Utilities Agency, A Municipal Water District, hereby certify that a copy of this agenda has been posted by 5:30 p.m. to the IEUA Website at www.ieua.org and outside the Agency's main office, 6075 Kimball Avenue, Building A, Chino on Thursday, January 7, 2021.



Denise Garzaro, CMC

**CONSENT
ITEM
1A**



**MINUTES
ENGINEERING, OPERATIONS, AND WATER RESOURCES
COMMITTEE MEETING
INLAND EMPIRE UTILITIES AGENCY*
AGENCY HEADQUARTERS, CHINO, CA**

**WEDNESDAY, DECEMBER 9, 2020
9:45 A.M.**

COMMITTEE MEMBERS PRESENT via Teleconference

Michael Camacho, Chair
Paul Hofer

STAFF PRESENT

Shivaji Deshmukh, General Manager
Christiana Daisy, Deputy General Manager
Denise Garzaro, Board Secretary/Office Manager
Wilson To, Technology Specialist II

STAFF PRESENT via Teleconference

Jasmin A. Hall, Vice President
Kathy Besser, Executive Manager of External & Government Affairs/AGM
Randy Lee, Executive Manager of Operations/AGM
Christina Valencia, Executive Manager of Finance & Administration/AGM
Jerry Burke, Manager of Engineering
Pietro Cambiaso, Deputy Manager of Planning & Environmental Resources
Andrea Carruthers, Manager of External Affairs
Javier Chagoyen-Lazaro, Manager of Finance & Accounting
Robert Delgado, Manager of Operations & Maintenance
Don Hamlett, Acting Deputy Manager of Integrated Systems Services
Jennifer Hy-Luk, Administrative Assistant II
Sylvie Lee, Manager of Strategic Planning & Resources
Cathleen Pieroni, Manager of Inter-Agency Relations
Sushmitha Reddy, Manager of Laboratories
Jeanina Romero, Executive Assistant
Daniel Solorzano, Technology Specialist I
Teresa Velarde, Manager of Internal Audit
Brian Wilson, Senior Engineer
Jamal Zughbi, Senior Engineer/Project Manager

CALL TO ORDER

Committee Chair Michael Camacho called the meeting to order at 9:59 a.m. He gave the public the opportunity to comment and provided instructions for unmuting the conference line.

There were no public comments received or additions to the agenda.

1A – 1B. CONSENT ITEMS

The Committee:

- ◆ Approved Minutes of the November 11, 2020 Engineering, Operations, and Water Resources Committee meeting.
- ◆ Recommended that the Board award the pre-purchase of four centrifuge covers for the RP-1 Centrifuge Foul Air Line Retrofit, Project No. EN19043, to Alfa Laval Inc., in the amount of \$136,242; and authorize the General Manager to execute the purchase order, subject to non-substantive changes; as a Consent Calendar Item on the December 16, 2020 Board meeting agenda.

2A – 2B. ACTION ITEMS

The Committee:

- ◆ Recommended that the Board:
 1. Approve the RP-5 Expansion Project CEQA Addendum to the Programmatic Environmental Impact Report (SCH No. 2016061064);
 2. Adopt Resolution No. 2020-12-1, certifying the attached RP-5 Expansion CEQA Addendum as complete; and
 3. Authorize the General Manager to execute the Notice of Determination and to file with San Bernardino County and the State Clearinghouse;
 - ◆ and
 1. Approve the janitorial services contract amendment with Priority Building Services, LLC., for a one-year extension in the amount of \$263,264.09; and
 2. Authorize the General Manager to execute the contract amendment;
- as Consent Calendar Items on the December 16, 2020 Board meeting agenda.

3A – 3B. INFORMATION ITEMS

The following information items were presented or received and filed by the Committee:

- ◆ RP-5 Expansion Project Update
- ◆ Engineering and Construction Management Project Updates

4. GENERAL MANAGER'S COMMENTS

General Manager Shivaji Deshmukh stated that incoming Director Marco Tule has been sworn in and is scheduled to attend his first Board meeting on December 16, 2020 Board. He added that Director Michael Camacho has also been sworn in after being reelected.

5. COMMITTEE MEMBER COMMENTS

There were no Committee member comments.

6. COMMITTEE MEMBER REQUESTED FUTURE AGENDA ITEMS

There were no Committee member requests for future agenda items.

7. ADJOURNMENT

With no further business, Committee Chair Camacho adjourned the meeting at 10:27 a.m.

Respectfully submitted,

Denise Garzaro
Board Secretary/Office Manager

*A Municipal Water District

APPROVED: JANUARY 13, 2021

DRAFT

CONSENT
ITEM
1B



Date: January 20, 2021

ADD

To: The Honorable Board of Directors

From: Shivaji Deshmukh, General Manager

Committee: Engineering, Operations & Water Resources

01/13/21

Executive Contact: Christiana Daisy, Deputy General Manager

Subject: Predesign Contract Award for Five Projects Fiscal Year 2020/2021

Executive Summary:

Annually the Engineering Department receives requests from other departments for new capital improvement projects. Staff investigates, prepares a Project Charter, schedule and budget. If approved, the selected consultant begins preparing the Preliminary Design Report (PDR) then final design. Occasionally after a consultant initiates predesign, the root failure analysis is discovered to be different from what staff thought. This results in scope update and consultant contract amendment.

Therefore, Staff requests approval to pilot a new approach of combining five projects in one Request for Proposal (RFP). A consultant from IEUA's On-Call Master Services Contract will be selected to prepare the PDR based on best value. After completion of the PDR, a Project Charter, budget and schedule will be prepared. Staff believes that more accurate schedules and budgets will be prepared after a design consultant completed the PDR.

Four proposals were received on November 20, 2020 and GHD Inc. was determined to provide the best value to do the work.

GHD Inc.'s not-to-exceed amount of \$478,973 was deemed comprehensive and reasonable.

Staff's Recommendation:

1. Award a consultant contract for the Five PDR Projects Fiscal Year 20/21, which includes the RP-4 Contact Basin Cover/Wet Well Passive Overflow, Montclair Force Main Improvements, 8th St. RW Turnout Connection to 1630 W. Pipeline, Ely Monitoring Well, and RP-1 Old Effluent Structure Replacement, Project No.'s EN21041, EN21045, EN21050, EN21051, and EN21053, to GHD Inc., for the not-to-exceed amount of \$478,973; and

2. Authorize the General Manager to execute the consultant contract, subject to non-substantive changes.

Budget Impact *Budgeted (Y/N): Y Amendment (Y/N): Y Amount for Requested Approval:*

Account/Project Name:

EN21041/RP-4 Contact Basin Cover & Wet Well Passive Overflow Replacement,
EN21045/Montclair Force Main Improvements, EN21050/8th Street RW Turnout Connection to
1630 W Pipeline, EN21051/Ely Monitoring Well, EN21053/RP-1 Old Effluent Structure

Fiscal Impact (explain if not budgeted):

None.

Prior Board Action:

None.

Environmental Determination:

Not Applicable

CEQA determination will be prepared for each project upon completion of the final PDR.

Business Goal:

The Five Projects are consistent with IEUA's Business Goal of Wastewater Management and Water Reliability, that IEUA is committed to providing a reliable and cost-effective water supply, promoting sustainable water use throughout the region, and is committed to meeting regional demands in an environmentally responsible and cost-effective manner.

Attachments:

Attachment 1 - PowerPoint

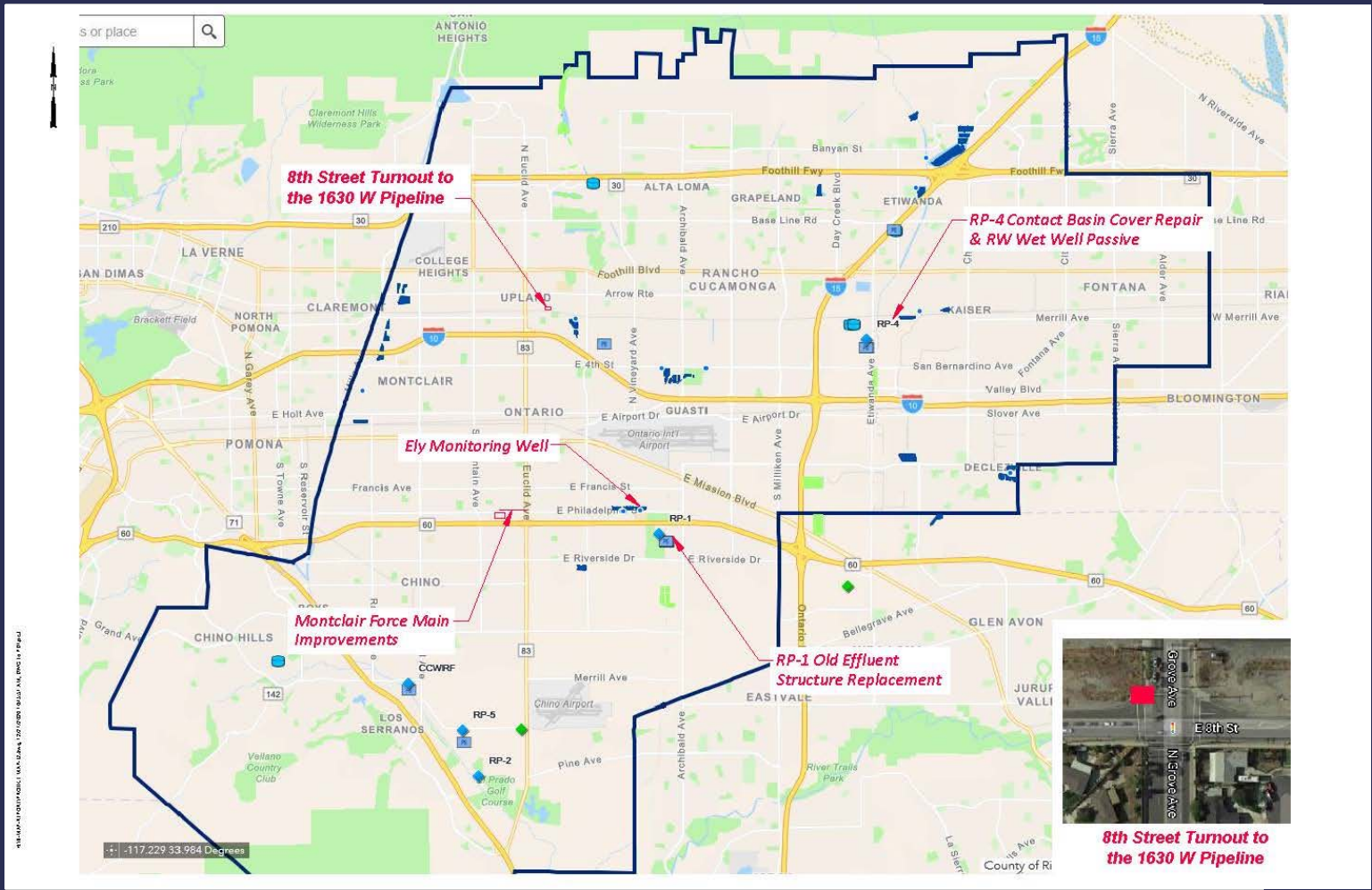
Attachment 2 - Consultant Contract ([Click to Download](#))

FY 20/21 Five Projects Predesign Consultant Contract Award

Project No.'s EN21041, EN21045, EN21050, EN21051 & EN21053



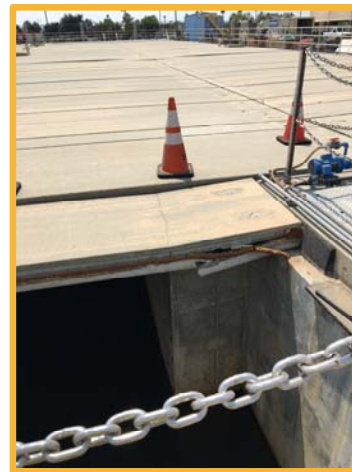
Jamal Zughbi, P.E.
Senior Engineer
January 2021



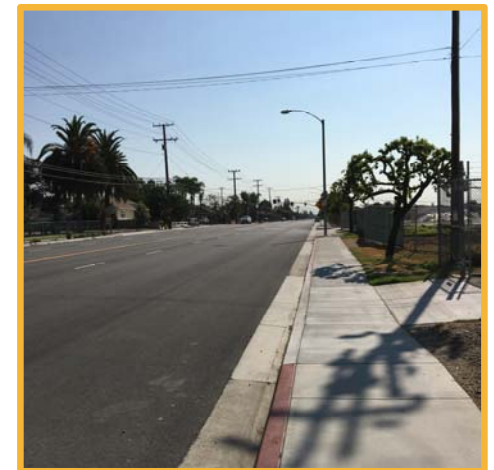
Project Location Map

Project Background/Scope

- **RP-4 Contact Basins**
 - Deteriorated/failed chlorine contact basin covers (Basins)
 - Passive overflow pipeline construction
 - Conduct Condition Assessment/Replace covers
- **Montclair Force Main**
 - Existing sewer line not inspected in 40 years
 - No means to isolate
 - Install 4,000 LF parallel force main
- **Prepare 30% Predesign Report**



RP-4 Chlorine Contact Basin
Collapsed Covers



Philadelphia St. – 4,000 LF Force Main

Project Background/Scope

- 8th St. Turnout Basin
 - 8th St. Recycled Water Turnout supplied by 1299 Pressure Zone (PZ)
 - 1299 PZ pulls RW from 1630 Pressure Zone
 - Low Pressure with 1630 PZ pumps operating
 - Supply Turnout basin from 1630 PZ
- Ely Monitoring Well
 - Ely Basin active groundwater recharge basin
 - Existing well has reached end of useful life
 - Well is used to monitor groundwater quality/permit compliance
- Prepare 30% Predesign Report



8th St. Turnout Pipe Alignment Area



Existing Ely Basin Monitoring Well

Project Background/Scope

- RP-1 Old Effluent Structure
 - 2017 inspection revealed deterioration
 - Structure is critical for the disinfection process
 - Gates and valves heavily corroded
 - No isolation at the influent
- Scope:
 - Perform Condition Assessment
 - Prepare 30% Predesign Report



Partial Old Effluent Structure View

Project Budget and Schedule

| Description | Estimated Cost | Project Milestone | Date |
|--|---------------------|---------------------------|--------------|
| <i>Predesign Services</i> | \$598,973 | <i>Evaluation</i> | |
| GHD Inc. Predesign Consultant Contract (this action) | \$478,973 | Consultant Contract Award | January 2021 |
| IEUA Predesign Services | \$120,000 | Evaluation Completion | June 2021 |
| <i>Construction (TBD)</i> | <i>TBD</i> | | |
| <i>Contingency (TBD)</i> | <i>TBD</i> | | |
| Total Project Cost (TBD) | TBD | | |
| Total Project Budget (Five Projects): | \$12,770,000 | | |

Recommendation

- Award a consultant contract for the Five PDR Projects Fiscal Year 20/21, which includes the RP-4 Contact Basin Cover/Wet Well Passive Overflow, Montclair Force Main Improvements, 8th St. RW Turnout Connection to 1630 W. Pipeline, Ely Monitoring Well, and RP-1 Old Effluent Structure Replacement, Project No.'s EN21041, EN21045, EN21050, EN21051, and EN21053, to GHD Inc., for the not-to-exceed amount of \$478,973; and
- Authorize the General Manager to execute the consultant contract, subject to non-substantive changes.

The Five Projects are consistent with **IEUA's Business Goal of Wastewater Management and Water Reliability**, that IEUA is committed to providing a reliable and cost-effective water supply, promoting sustainable water use throughout the region, and is committed to meeting regional demands in an environmentally responsible and cost-effective manner.

CONSENT
ITEM
1C



Date: January 20, 2021

ADD

To: The Honorable Board of Directors

From: Shivaji Deshmukh, General Manager

Committee: Engineering, Operations & Water Resources

01/13/21

Executive Contact: Christiana Daisy, Deputy General Manager

Subject: Small Site Controller Upgrade Program Contract Amendment

Executive Summary:

The Residential Small Site Controller Upgrade Program upgrades existing landscape controllers on residential sites smaller than a quarter of an acre with weather-based irrigation controllers and requires participants to attend an online training class as a pre-requisite.

A request for proposal (RFP) was issued on June 24, 2019. Three proposals were received, and an evaluation team comprised of Agency staff, along with representatives from the City of Chino Hills, Cucamonga Valley Water District, and Eastern Municipal Water District selected Conserv Construction, Inc. as the best qualified. On August 26, 2019, the Inland Empire Utilities Agency (IEUA) entered into a contract agreement with Conserv Construction, Inc. for the Small Site Controller Upgrade Program, for a not-to-exceed amount of \$200,000 and on January 15, 2020, the Board approved a contract amendment of \$400,000 with Conserv Construction, Inc. for a not-to-exceed amount of \$600,000.

Due to unexpected customer demand, staff is recommending to amend the existing contract by \$462,000, for a not-to-exceed amount of \$1,062,000, to meet future demands and continue the program implementation.

Staff's Recommendation:

1. Approve a contract amendment with Conserv Construction, Inc. for the Small Site Controller Upgrade Program for a not-to-exceed amount of \$462,000, increasing the contract from \$600,000 to \$1,062,000 (44% increase) ; and
2. Authorize the General Manager to execute the contract amendment subject to non-substantive changes.

Budget Impact *Budgeted (Y/N): Y* *Amendment (Y/N): N* *Amount for Requested Approval: \$ 462,000*

Account/Project Name:

Fiscal Impact (explain if not budgeted):

\$162,000 of the funds associated with this contract for Fiscal Year 2020/21 are budgeted under project no. WR21019 in the Water Resources Fund. The additional \$300,000 will be added to the project during the FY 21/22 budget preparation process.

Full account coding (internal AP purposes only):

- - -
- - -

Project No.:

Prior Board Action:

On January 15, 2020, IEUA's Board of Directors approved a contract amendment to Conserv Construction, Inc. for a not-to-exceed amount of \$600,000.

Environmental Determination:

Not Applicable

Business Goal:

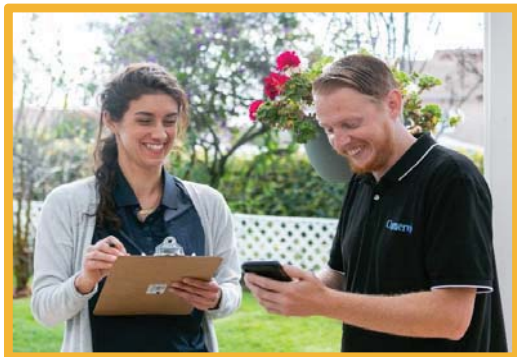
The Small Site Controller Upgrade Program is consistent with IEUA's Business Goal of increasing Water Reliability by promoting water use efficiency and education to enhance water supplies within the region in order to reduce dependence on imported water supplies.

Attachments:

Attachment 1 - PowerPoint

Attachment 2 - Contract Amendment

Small Site Controller Upgrade Program Contract Amendment



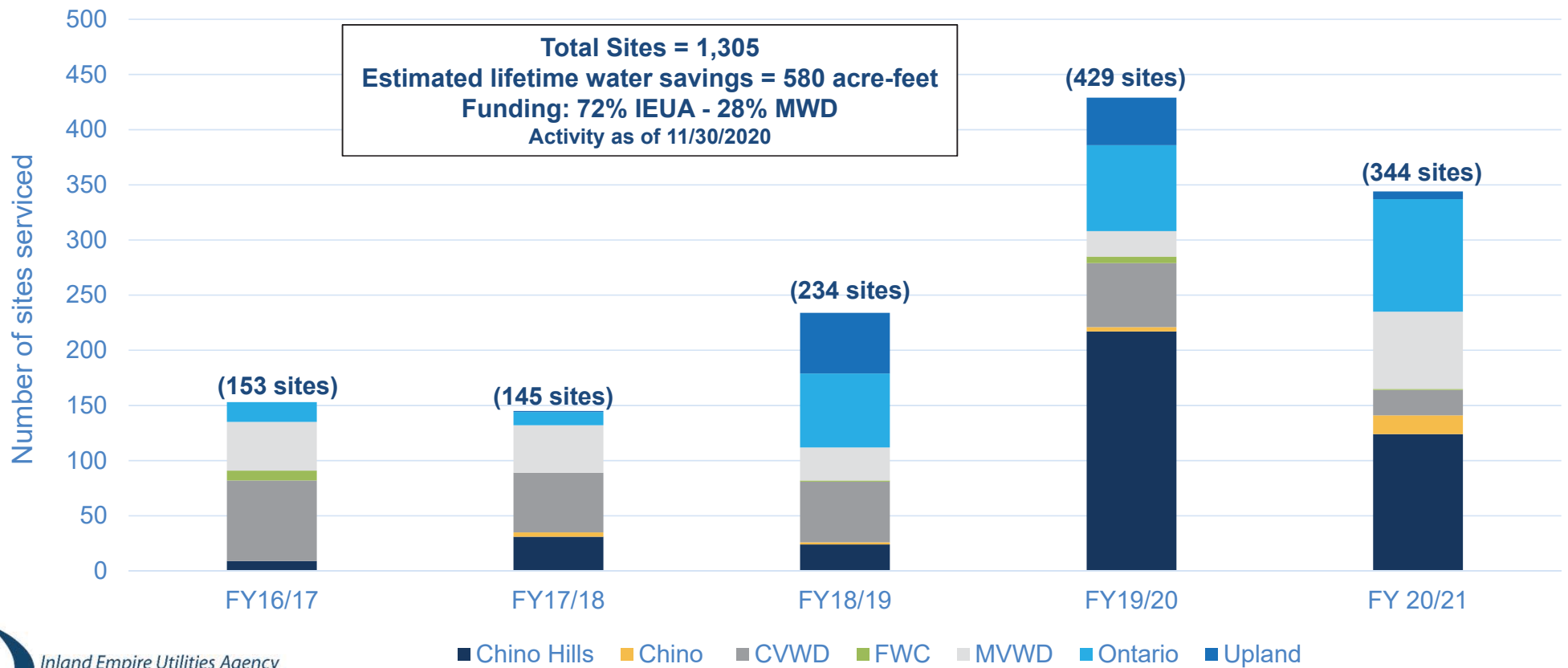
Pietro Cambiaso, P.E.
Deputy Manager of Strategic Planning and Resources
January 2021

Background

- IEUA Small Site Controller Upgrade Program
 - Program focus – sites < 1/4 acre
 - Required online educational workshop video (English, Spanish and Cantonese)
 - Landscape evaluations and controller upgrades
 - Metropolitan Water District funding partnership



Program Performance



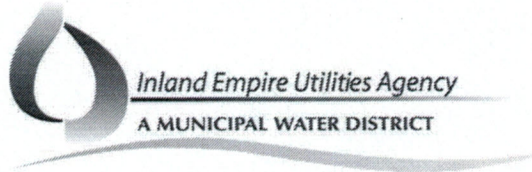
Contractor Selection

- Request for Proposal issued – June 24, 2019
 - Three proposals received
 - Contract awarded to Conserv Construction, Inc.
- New contract issued – August 21, 2019
 - Not-to-exceed amount of \$200,000
- Contract amended – January 15, 2020
 - Increased by \$400,000 for a not-to-exceed amount of \$600,000

Recommendation

- Approve a contract amendment with Conserv Construction, Inc. for the Small Site Controller Upgrade Program for a not-to-exceed amount of \$462,000, increasing the contract from \$600,000 to \$1,062,000 (44% increase); and
- Authorize the General Manager to execute the contract amendment subject to non-substantive changes.

The Small Controller Upgrade Program is consistent with *IEUA's Business Goal* of increasing *Water Reliability* by promoting water use efficiency and education to enhance water supplies within the region in order to reduce dependence on imported water supplies.



**CONTRACT AMENDMENT NUMBER: 4600002791-003
FOR
SMALL CONTROLLER UPGRADE PROGRAM**

AMENDMENT NUMBER Three is made and entered by and between the Inland Empire Utilities Agency (IEUA), a Municipal Water District, organized and existing in the County of San Bernardino under and by virtue of the laws of the State of California (hereinafter referred to as "Agency" or "IEUA"), and Conserv Construction, Inc., of Murrieta, California (hereinafter referred to as "Contractor"), and shall revise the Contract as amended:

SECTION 6.B. PAYMENT, INVOICING, AND COMPENSATION, IS REVISED TO READ AS FOLLOWS:

As compensation for the satisfactory performance of the work required under amendment 4600002791-003, Agency shall pay Contractor, in accordance with the properly issued and approved invoices processed in accordance with the payment provision of Section 6 of Contract number 4600002791. This Amendment increases the value of the Contract by **\$462,000**.

Execution of Contract Amendment Number 4600002791-003 increases the Contract's total NOT-TO-EXCEED value to **\$1,062,000**.

ALL OTHER PROVISIONS OF THIS CONTRACT REMAIN UNCHANGED

WITNESSETH, that the parties hereto have mutually covenanted and agreed as per the above amendment item, and in doing so have caused this document to become incorporated into the Contract Documents.

INLAND EMPIRE UTILITIES AGENCY:
**A MUNICIPAL WATER DISTRICT*

CONSERV CONSTRUCTION, INC.:

Shivaji Deshmukh, P.E. (Date)
General Manager

Steve Campbell 1-04-21

Steve Campbell (Date)
President

**CONSENT
ITEM
1D**



Date: January 20, 2021

SAD

To: The Honorable Board of Directors

From: Shivaji Deshmukh, General Manager

Committee: Engineering, Operations & Water Resources

01/13/21

Executive Contact: Christiana Daisy, Deputy General Manager

Subject: RP-1 Aeration Membrane Replacement Material Sole Source Procurement

Executive Summary:

Inland Empire Utilities Agency (IEUA) has an Operations & Maintenance project to replace all the fine bubble diffusers within the aeration basins at Regional Water Recycling Plant No. 1 (RP-1), as they near the end of their useful life. These diffusers dissolve air into the treatment process and provides air to the microorganisms. The dissolved air is critical to the biological treatment process, allowing the ability to maintain the requirements of the IEUA's National Pollutant Discharge Elimination System (NPDES) permit. To match RP-1's aeration diffuser equipment (i.e. HiOx Messner ultra-fine bubble aeration diffusers), staff has obtained a quote from Parkson Corporation for the RP-1 Aeration Membrane Replacement Project. Effective the end of 2020, Parkson will be discontinuing the availability of membrane replacements for the older HiOx units installed at RP-1. The HiOx aeration equipment is proprietary to Parkson, and IEUA cannot procure replacement membranes from any other manufacturer. The statute in the Public Contract Code (PCC) § 3400(b) allows sole sourcing for the following reasons: to match existing products in use on the particular public work, and to obtain a product that is only available from one source. The quote is to procure 878 HiOx Messner ultra-fine bubble aeration membranes for a total price of \$433,732. A construction contract will be taken to the board in the fourth quarter of fiscal year 2020/21 to replace the RP-1 aeration membranes.

Staff's Recommendation:

1. Approve a material procurement, as a sole source, for the Agency-Wide Aeration, Project No. PA17006, through Parkson Corporation, for a not-to-exceed amount of \$433,732; and
2. Authorize the General Manager to execute the procurement, subject to non-substantive changes.

Budget Impact *Budgeted (Y/N): Y Amendment (Y/N): N Amount for Requested Approval:*

Account/Project Name:

PA17006/Agency-Wide Aeration

Fiscal Impact (explain if not budgeted):

None.

Prior Board Action:

None.

Environmental Determination:

Not Applicable

Business Goal:

The Agency-Wide Aeration Project (RP-1) is consistent with the IEUA's Business Goal of Business Practices, specifically the Efficiency and Effectiveness objective that IEUA strives to apply best industry practices in all processes to maintain or improve the quality and value of the services we provide to our member agencies and the public.

Attachments:

Attachment 1 - PowerPoint

Attachment 2 - Sole Source Justification

Agency-Wide Aeration Project (RP-1)

Sole Source Procurement

Project No. PA17006



Travis Sprague, PE
Principal Engineer
January 2021

Project Location



Aeration
Basins

Project Background/Scope

- Membrane system installed 2001
- Provides dissolved air to the microorganisms
- End of 2020 vendor will cease production
- Existing system must be replaced 12 months
- Membrane system procurement is 5 months
- Advertise contract 4th quarter of 2020/2021



RP-1 Aeration Panel Diffusers

Project Budget and Schedule

| Description | Cost | Project Milestone | Date |
|--|--------------------|-----------------------------|---------------|
| Construction Services | \$584,232 | Construction | |
| IEUA Construction Services (7%, estimate) | \$150,500 | Construction Contract Award | June 2021 |
| Aeration Membrane Replacement Material (this item) | \$433,732 | Construction Completion | February 2022 |
| Construction | \$2,365,000 | | |
| Construction Contract (estimate) | \$2,150,000 | | |
| Contingency (~15%) | \$215,000 | | |
| Total Project Cost (this project): | \$2,949,232 | | |
| Total Project Cost (PA17006.00): | \$613,059 | | |
| Total Project Cost (PA17006.01): | \$1,903,438 | | |
| Total Project Cost (PA17006.02): | \$3,385,897 | | |
| Total Project Cost (All): | \$8,851,626 | | |
| Total Project Budget: | \$8,859,000 | | |

Recommendation

- Approve a material procurement, as a sole source, for the Agency-Wide Aeration (RP-1), Project No. PA17006, through Parkson Corporation, in not-to-exceed amount of \$433,732; and
- Authorize the General Manager to execute the procurement, subject to non-substantive changes.

The Agency-Wide Aeration Project (RP-1) is consistent with the **IEUA's Business Goal of Business Practices**, specifically the Efficiency and Effectiveness objective that IEUA strives to apply best industry practices in all processes to maintain or improve the quality and value of the services we provide to our member agencies and the public.



Engineering Department Memorandum

Date: December 2, 2020

To: Warren T. Green
Manager, Contracts & Procurement

From: Travis Sprague
Senior Project Manager

Subject: Single Source Product Justification for
Parkson HiOX Aeration Replacement Membrane Material

IEUA's Procurement Ordinance No. 108 and the California Public Contract requires that IEUA obtain competition for purchases whenever possible. For this requirement, Engineering Staff normally uses specifications to describe, generically, what is intended for purchasing to allow for this competition. When these goals cannot be achieved, courts are not required to enforce the competitive bidding or "or-equal" requirement. In these situations, IEUA may specify a particular product. Public Contract Code (PCC) § 3400(b) defines those situations. The statute allows sole sourcing for the following reasons: (1) to conduct a field test or experiment of the product, (2) to match existing products in use on the particular public work, (3) to obtain a product that is only available from one source, and (4) to respond to an emergency.

Parkson is the manufacturer and sole supplier of the replacement membranes for the RP-1 Parkson HiOX Aeration Panels used in the activated sludge treatment process. 852 panels blanket the entire floor of the aeration basins at the treatment plant. Parkson will cease to manufacture the replacement membranes in 2021. In order to procure a final batch of replacement membrane material, the manufacturer will need a fully executed purchase order by the end of January 2021.

The engineered aeration panels and membranes are proprietary to Parkson, and the Agency cannot procure replacement membranes from any other manufacturer. Operations will require aeration membrane replacement in 6 to 9 months.

The Agency will formally advertise a project to have a qualified contractor remove and replace the aeration panel membrane in the third quarter of 2021.

Attachment No.1 – HiOx Aftermarket Announcement

Attachment No.1

HiOx Aftermarket Announcement

02/17/2020



7011 Martindale Rd
Shawnee, KS 66218
Phone 913.745.1201

February 17, 2020

To: Parkson HiOx Aeration Customer

Re: HiOx Panel Aftermarket Parts

Dear Valued Customer,

Parkson Corporation (Parkson) and Rudolph Messner Umwelttechnik AG (Messner) have extended their exclusive agreement for the distribution of the HiOx Messner ultra-fine bubble aeration products in the U.S., Canada, and Mexico. This agreement covers sales of new panels in addition to aftermarket parts for units that utilize the Messner frames.

As part of this agreement, Parkson will be discontinuing the availability of membrane replacements for the older HiOx units including the PVC panel with side seal, PVC panel with top seal, and the Ultraflex models. For facilities requiring new membranes, Parkson will be offering an upgrade to the new HiOx Messner Classic and Compact panels with 316 stainless steel frames.

Parkson is offering a conversion kit for the Ultraflex models which will allow two (2) HiOx Messner Classic Panels to be bolted to the existing Ultraflex frame. This allows the old frame and anchoring systems to remain in place as part of the upgrade.

Customers who have budgeted for membrane replacements in 2020 should contact Parkson immediately so we can make arrangements to have inventory available. Effective at the end of 2020, no further membrane replacements for the older models will be made available and Parkson will be proposing the new HiOx Messner upgrade which includes new frames.

Please feel free to contact your local Parkson representative with any questions, or you may phone or email me directly. We would like to thank you for being a customer and look forward to future business.

Best Regards,

Brad Linsey
Sr. Product Manager
913.214.7794
blinsey@parkson.com

**CONSENT
ITEM**

1E



Date: January 20, 2021

To: The Honorable Board of Directors

From: Shivaji Deshmukh, General Manager

Committee: Engineering, Operations & Water Resources

01/13/21

Executive Contact: Christiana Daisy, Deputy General Manager

Subject: Brine Sewer System and Regional Sewer System Manhole Upgrade Construction Contract Award

Executive Summary:

Inland Empire Utilities Agency (IEUA) is responsible for operating and maintaining the Brine Sewer System (BSS) and Regional Sewer System (RSS) throughout the cities of Fontana, Upland, Montclair, Rancho Cucamonga, Ontario, Chino, and Chino Hills as well as the unincorporated areas of San Bernardino County. IEUA's collection crews are tasked with maintaining the existing systems via numerous manholes that have been in service for many years. Many of the existing manholes are showing signs of deterioration and sulfide damage. To address the deterioration, IEUA implemented a manhole upgrade program that has spanned several fiscal years and is anticipated to continue until all manholes have been inspected and upgraded, if required. This project will install 59 pre-purchased manhole frames and covers at various locations within our service area. Project design was completed in-house via collaboration between Engineering and Collections.

On December 3, 2020, IEUA received 10 construction bids. Norstar Plumbing and Engineering, Inc., was deemed the lowest responsive bidder with a bid price of \$283,995 which was under the engineer's estimate of \$344,000.

Staff's Recommendation:

1. Award a construction contract for the BSS Manhole Upgrades FY20/21 and RSS Manhole Upgrades FY20/21, Project No's. EN21014 and EN21015, to Norstar Plumbing and Engineering, Inc., in the amount of \$283,995; and
2. Authorize the General Manager to execute the contract, subject to non-substantive changes.

Budget Impact *Budgeted (Y/N): Y Amendment (Y/N): N Amount for Requested Approval:*

Account/Project Name:

EN21014/BSS Manhole Upgrades FY20/21

EN21015/RSS Manhole Upgrades FY20/21

Fiscal Impact (explain if not budgeted):

None.

Prior Board Action:

None.

Environmental Determination:

Categorical Exemption

CEQA identifies certain categories of projects as exempt from more detailed environmental review because these categories have been deemed to have no potential for significant impact on the environment. This project qualifies for a Categorical Exemption Class 1 as defined in Section 15301(b) of the State CEQA Guidelines.

Business Goal:

The BSS Manhole Upgrades and RSS Manhole Upgrades Projects are consistent with IEUA's Business Goal of Wastewater Management, specifically the Asset Management and Water Quality objectives, that IEUA will ensure that systems are well maintained, upgraded to meet evolving requirements, sustainably managed, and accommodate changes in regional water use to protect public health, the environment, and meet anticipated regulatory requirements.

Attachments:

Attachment 1 - PowerPoint
Attachment 2 - Contract

Brine and Regional Sewer System (BSS & RSS) Manholes and Collections System Upgrades FY 20/21 Construction Contract Award Project No. EN21014 & EN21015



Josh Biesiada, CCM
Project Manager II
January 2021

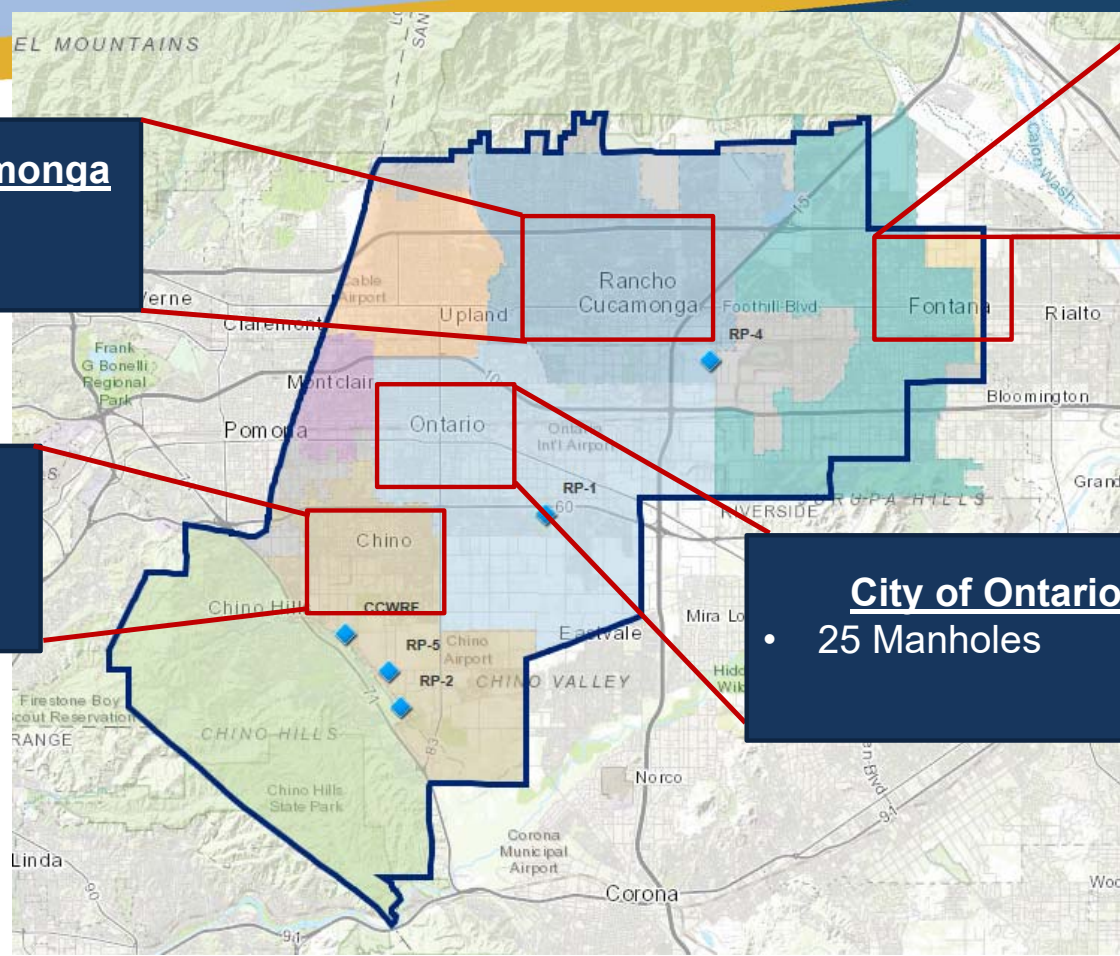
Project Locations

City of Rancho Cucamonga
• 6 Manholes

City of Fontana
• 7 Manholes

City of Chino
• 21 Manholes

City of Ontario
• 25 Manholes



Project Background/Scope

Background

- Identified 59 deteriorated manhole frames/covers
- Difficult for O&M to perform maintenance
- IEUA pre-purchased new composite manholes/covers

BSS Manhole Upgrades

- 15 manholes require frame and cover replacement
 - 6 manholes need to be located

RSS Manhole Upgrades

- 44 manholes require frame and cover replacement
 - 5 manholes require relining
 - 7 manholes need to be located



Contractor Selection

On December 3, 2020, 10 bids were received:

| Bidder's Name | BSS | RSS | Total |
|---|-----------------|------------------|-------------------|
| Norstar Plumbing and Engineering, Inc. | \$72,203 | \$211,792 | \$283,995 |
| Gentry General Engineering, Inc. | \$73,500 | \$250,800 | \$324,300 |
| Ayala Engineering, Inc. | \$88,125 | \$254,816 | \$342,941 |
| GDM Inc. | \$112,764 | \$234,194 | \$346,958 |
| Cedro Construction, Inc. | \$110,816 | \$241,961 | \$352,777 |
| Ferreira Construction Co, Inc. | \$84,500 | \$297,400 | \$381,900 |
| Creative Home Corporation | \$100,500 | \$298,800 | \$399,300 |
| Doty Bros Equipment Co. | \$134,250 | \$325,431 | \$459,681 |
| Hemet Manufacturing, dba Genesis Construction | \$118,080 | \$346,365 | \$464,445 |
| Atom Engineering Construction, Inc. | \$120,000 | \$378,398 | \$498,398 |
| Engineer's Estimate | \$87,000 | \$257,000 | \$ 344,000 |

Project Budget and Schedule

| Description | Estimated Cost |
|--|------------------|
| Design Services | \$22,729 |
| IEUA Design Services (Actuals) | \$22,729 |
| Construction Services | \$96,620 |
| IEUA Construction Services (~35%) | \$96,620 |
| Construction | \$326,594 |
| Construction (This Action) | \$283,995 |
| Contingency (~30%) | \$42,599 |
| Total Project Cost: | \$445,943 |
| Total Project Budget (EN21014 & EN21015): | \$680,000 |

| Project Milestone | Date |
|-----------------------------|--------------|
| Construction | |
| Construction Contract Award | January 2021 |
| Construction Completion | June 2021 |

Recommendation

- Award a construction contract for the BSS Manhole Upgrades FY20/21 & RSS Manhole Upgrades FY20/21, Project No. EN21014 & EN21015, to Norstar Plumbing and Engineering, Inc., in the amount of \$283,995; and
- Authorize the General Manager to execute the contract, subject to non-substantive changes.

The BSS and RSS Manhole Upgrades Projects are consistent with the *IEUA's Business Goal of Wastewater Management*, specifically the Asset Management and Water Quality objectives. IEUA will ensure that systems are well maintained, upgraded to meet evolving requirements, sustainably managed, and accommodate changes in regional water use to protect public health, the environment, and meet anticipated regulatory requirements.

SECTION D - CONTRACT AND RELEVANT DOCUMENTS

1.0 CONTRACT

THIS CONTRACT, made and entered into this ____ day of _____, 20__, by and between Norstar Plumbing and Engineering, Inc. hereinafter referred to as "CONTRACTOR," and The Inland Empire Utilities Agency, a Municipal Water District, located in San Bernardino County, California, hereinafter referred to as "IEUA".

WITNESSETH:

That for and in consideration of the promises and agreements hereinafter made and exchanged, IEUA and the CONTRACTOR agree as follows:

- A. CONTRACTOR agrees to perform and complete in a workmanlike manner, all Work required under these Bid Documents FOR BSS Manhole Upgrades FY20/21 & RSS Manhole Upgrades FY20/21, Project Nos. EN21014/21015, in accordance with the Bid Documents, and to furnish at their own expense, all labor, materials, equipment, tools, and services necessary, except such materials, equipment, and services as may be stipulated in said Bid Documents to be furnished by IEUA, and to do everything required by this Contract and the said Bid Documents.
- B. For furnishing all said labor, materials, equipment, tools, and services, furnishing and removing all plant, temporary structures, tools and equipment, and doing everything required by this Contract and said Bid Documents; also for all loss and damage arising out of the nature of the Work aforesaid, or from the action of the elements, or from any unforeseen difficulties which may arise during the prosecution of the Work until its acceptance by IEUA, and for all risks of every description connected with the Work; also for all expenses resulting from the suspension or discontinuance of Work, except as in the said Bid Documents are expressly stipulated to be borne by IEUA; and for completing the Work in accordance with the requirements of said Bid Documents, IEUA will pay and said CONTRACTOR shall receive, in full compensation therefore, the price(s) set forth in this Contract.
- C. That IEUA will pay the CONTRACTOR progress payments and the final payment, in accordance with the provisions of the Contract Documents, with warrants drawn on the appropriate fund or funds as required, at the prices bid in the Bidding and Contract Requirements, Section C - Bid Forms and accepted by IEUA, and set forth in this below.

Total Bid Price for EN21014:

\$ Seventy-two thousand two hundred and three Dollars.

and zero Cents.

Total Bid Price for EN21015:

\$ Two hundred eleven thousand seven hundred ninety-two Dollars.

and zero Cents.

- D.** IEUA hereby employs the CONTRACTOR to perform the Work according to the terms of this Contract for the above-mentioned price(s), and agrees to pay the same at the time, in the manner, and upon the conditions stipulated in the said Bid Documents; and the said parties for themselves, their heirs, executors, administrators, successors, and assigns, do hereby agree to the full performance of the covenants herein contained.
- E.** The Notice Inviting Bids, Instructions to Bidders, Bid Forms, Information Required of Bidder, Performance Bond, Payment Bond, Contractor's License Declaration, Specifications, Drawings, all General Conditions and Special Conditions and all Project Requirements, and all Addenda issued by IEUA with respect to the foregoing prior to the opening of bids, are hereby incorporated in and made part of this Contract, as if fully set forth.
- F.** The CONTRACTOR agrees to commence Work under this Contract on or before the date to be specified in a written "Notice To Proceed" and to complete said Work to the satisfaction of IEUA one hundred and twenty (120) calendar days after award of the Contract. All Work shall be completed before final payment is made.
- G.** Time is of the essence on this Contract.
- H.** CONTRACTOR agrees that in case the Work is not completed before or upon the expiration of the Contract Time, damage will be sustained by IEUA, and that it is and will be impracticable to determine the actual damage which IEUA will sustain in the event and by reason of such delay, and it is therefore agreed that the CONTRACTOR shall pay to IEUA the amounts as set forth in General Conditions, Section C – Changes to the Contract for each day of delay, which shall be the period between the expiration of the Contract Time and the date of final acceptance by IEUA, as liquidated damages and not as a penalty. It is further agreed that the amount stipulated for liquidated damages per day of delay is a reasonable estimate of the damages that would be sustained by IEUA, and the CONTRACTOR agrees to pay such liquidated damages as herein provided. In case the liquidated damages are not paid, the CONTRACTOR agrees that IEUA may deduct the amount thereof from any money due or that may become due to the CONTRACTOR by progress payments or otherwise under the Contract, or if said amount is not sufficient, recover the total amount.
- I.** In addition to the liquidated damages, which may be imposed if the CONTRACTOR fails to complete the Work within the time agreed upon, IEUA may also deduct from any sums due or to become due to the CONTRACTOR, penalties and fines for violations of applicable local, state, and federal law.
- J.** That the CONTRACTOR shall carry Workers' Compensation Insurance and

require all subcontractors to carry Workers' Compensation Insurance as required by the California Labor Code.

- K. That the CONTRACTOR shall have furnished, prior to execution of the Contract, two bonds approved by IEUA, one in the amount of one hundred (100) percent of the Contract Price, to guarantee the faithful performance of the Work, and one in the amount of one hundred (100) percent of the Contract Price to guarantee payment of all claims for labor and materials furnished.
- L. The CONTRACTOR hereby agrees to protect, defend, indemnify and hold IEUA and its employees, Engineer, agents, officers, directors, servants and volunteers free and harmless from any and all liability, claims, judgments, costs and demands, including demands arising from injuries or death of persons (including employees of IEUA and the CONTRACTOR) and damage to property, arising directly or indirectly out of the obligation herein undertaken or out of the operations conducted by the CONTRACTOR, its employees agents, representatives or subcontractors under or in connection with this Contract to the fullest extent permitted by law.

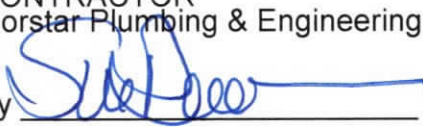
The CONTRACTOR further agrees to investigate, handle, respond to, provide defense for and defend any such claims, demands or suit at the sole expense of the CONTRACTOR.

IN WITNESS WHEREOF, The CONTRACTOR and the General Manager of Inland Empire Utilities Agency*, thereunto duly authorized, have caused the names of said parties to be affixed hereto, each in duplicate, the day and year first above written.

- M. The CONTRACTOR, by signing the contract does swear under penalty of perjury that no more than one final unappeasable finding of contempt of court by a Federal court has been issued against the CONTRACTOR within the immediately preceding two year period because of the CONTRACTOR's failure to comply with an order of a Federal court which orders the CONTRACTOR to comply with an order of the National Labor Relations Board (Public Contract Code 10296).

Inland Empire Utilities Agency*,
San Bernardino County, California.

By _____
General Manager
Shivaji Deshmukh

CONTRACTOR
Norstar Plumbing & Engineering Inc
By  _____
Sue Plummer
Sec Treas

Title

* *A Municipal Water District*

CONSENT
ITEM
1F

Date: January 20, 2021

ADD

To: The Honorable Board of Directors

From: Shivaji Deshmukh, General Manager

Committee: Engineering, Operations & Water Resources

01/13/21

Executive Contact: Christiana Daisy, Deputy General Manager

Subject: 1158 East & West Reservoir Rehabilitation Construction Change Order

Executive Summary:

On November 20, 2019, the Board of Directors awarded a construction contract to Spiess Construction Company to perform structural modifications and recoat the recycled water reservoirs. Part of the project scope was to remove cladding/insulation covering the exterior shell and remove the asphalt from the lower portion of the shell. Both of these items recommended by the design consultant were included in the scope due to the fact the reservoirs were constructed in 1952 and the concern of hidden damage caused by many years of corrosion.

After the asphalt had been removed by the contractor, the corrosion damage was significantly greater than anticipated. This change order is for the cost to replace 300 lineal feet of the outer bottom plates and to re-weld the outer original fillet weld on the 140 lineal feet where the bottom plates will not be replaced. The cost also includes the sandblasting necessary to remove the existing coating at the locations requiring welding.

Staff requests approval of this construction change order with Spiess Construction Company in the amount of \$146,548.50, increasing the contract from \$2,985,479 to \$3,132,027, 4.9% increase.

Staff's Recommendation:

1. Approve a construction change order for the 1158 East & West Reservoir Rehabilitation, Project Nos. EN21004 & EN22004, to Spiess Construction Company, for the not-to-exceed amount of \$146,548.50, increasing the contract from \$2,985,479 to \$3,132,027, 4.9% increase; and
2. Authorize the General Manager to execute the change order, subject to non-substantive changes.

Budget Impact *Budgeted (Y/N): Y Amendment (Y/N): Y Amount for Requested Approval:*

Account/Project Name:

EN21004/1158 West Reservoir Rehabilitation
EN22004/1158 East Reservoir Rehabilitation

Fiscal Impact (explain if not budgeted):

None.

Prior Board Action:

On November 20, 2019, the Board of Directors awarded a construction contract to Spiess Construction Company for the not-to-exceed amount of \$2,715,800.

On November 20, 2019, the Board of Directors awarded a consultant contract to Harper & Associates Engineering, Inc., for coating inspection services during construction in the amount of \$105,600.

Environmental Determination:

Categorical Exemption

CEQA identifies certain categories of projects as exempt from more detailed environmental review because these categories have been deemed to have no potential for significant impact on the environment. This project qualifies for a Categorical Exemption Class 1 as defined in Section 15301 of the State CEQA Guidelines.

Business Goal:

The 1158 East & West Reservoir Rehabilitation Project is consistent with IEUA's Business Goal of Water Reliability, specifically the Recycled Water objective that IEUA will maximize the use of recycled water to enhance regional water reliability.

Attachments:

Attachment 1 - PowerPoint

1158 East & West Reservoir Rehabilitation Construction Change Order

Project No. EN21004/EN22004



Jerry Burke, P.E.
January 2021

Project Location



The Project

- Contract Award November 2019
 - Spiess Construction Co.
 - Contract Value: \$2,715,800
- Reservoirs constructed in 1952
- Damage revealed after removal of asphalt and cladding
- Scope:
 - Replace outer bottom plates
 - Additional fillet welds



Bottom Plate Extension Covered in Asphalt



Visible Corrosion Damage on Bottom Plate Extension



Good Bottom Plate Extension Condition

Project Budget and Schedule

| Description | Estimated Cost |
|--|--------------------|
| Design Services | \$27,500 |
| Design Consultant Contract (actuals) | \$17,000 |
| IEUA Design Services (actuals) | \$10,500 |
| Construction Services | \$276,200 |
| Engineering Services During Construction | \$35,600 |
| IEUA Construction Services (~5%) | \$135,000 |
| Coating Inspection Services | \$105,600 |
| Construction | \$3,132,349 |
| Construction | \$2,715,800 |
| Approved Change Orders (Additive Bid Items) | \$270,000 |
| Change Order Request (This Action) | \$146,549 |
| Total Project Cost: | \$3,436,049 |
| Total Project Budget (EN21004 & EN22004): | \$3,561,000 |

| Project Milestone | Date |
|-----------------------------|---------------|
| Construction | |
| Construction Contract Award | November 2019 |
| Construction Completion | May 2021 |

Recommendation

- Approve a construction change order for the 1158 East & West Reservoir Rehabilitation Project, Project Nos. EN21004 & EN22004, to Spiess Construction Company for the not-to-exceed amount of \$146,548.50, increasing the contract from \$2,985,479 to \$3,132,027, 4.9% increase; and
- Authorize the General Manager to execute the change order.

The 1158 East & West Reservoir Rehabilitation Project is consistent with **IEUA's Business Goal of Water Reliability**, specifically the Recycled Water objective that IEUA will maximize the use of recycled water to enhance regional water reliability.

INFORMATION
ITEM
2A

Regional Wastewater Ordinance No. 109



Regional Wastewater Ordinance No. 109

- Purpose
 - Regulates availability and use of the Regional Sewerage System
 - Legal authority document required by Code of Federal Regulations
 - Establishes terms, limits, and conditions for use
 - Provides procedures for regulatory compliance
- Objective
 - Protect public health and the environment
 - Comply with Regional Board requirements
 - Prevent Interference at wastewater treatment process
 - Protect recycled water and biosolids quality



Proposed Ordinance Revisions

- Definitions
 - Updates and adds additional definitions
- Prohibited Discharge Standards
 - Updates prohibitions to align with EPA Model Ordinance
 - Adds prohibitions for: unused or expired pharmaceuticals; bromide containing wastewater; 2,3,7,8 TCDD (Dioxin); 1,2,3 TCP; hydrolysate resulting from hydrolysis; chemical or portable toilet wastes



Proposed Ordinance Revisions

- Notification of the Discharge of Hazardous Waste
- Approving analytical techniques
- Requirement to install flow monitoring equipment
- Tampering with monitoring equipment
- Emergency suspension
- Affirmative defenses to discharge violations



Recommendation

1. Hold a Public Hearing to receive public comments prior to adoption of Ordinance No. 109 regulating the availability and use of the Regional Sewerage System; and
2. After closing the Public Hearing, adopt the Regional Ordinance No. 109.

The Regional Wastewater Ordinance No. 109 is consistent with the Agency's Business Goal of Environmental Stewardship by meeting federal, state and local pretreatment regulations within the IEUA service area and safeguarding public health and the environment.

INFORMATION
ITEM
2B

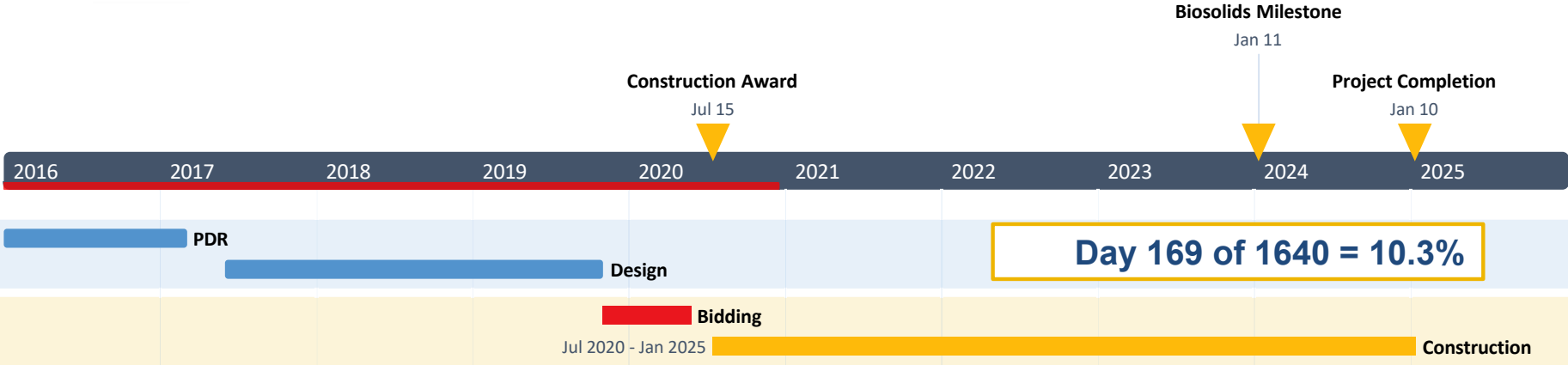
RP-5 Expansion

Project Update: January 2021

Project Nos. EN19001 and EN19006



RP5: Project Status



| Role | Firm | Contract | Payments | % Complete |
|-------------------------|----------|----------------|---------------|------------|
| Contractor | WM Lyles | \$ 329,982,900 | \$ 6,436,970 | 2.0% |
| Designer | Parsons | \$ 31,685,239 | \$ 22,668,889 | 72% |
| Construction Management | Arcadis | \$ 21,125,523 | \$ 2,258,386 | 11% |

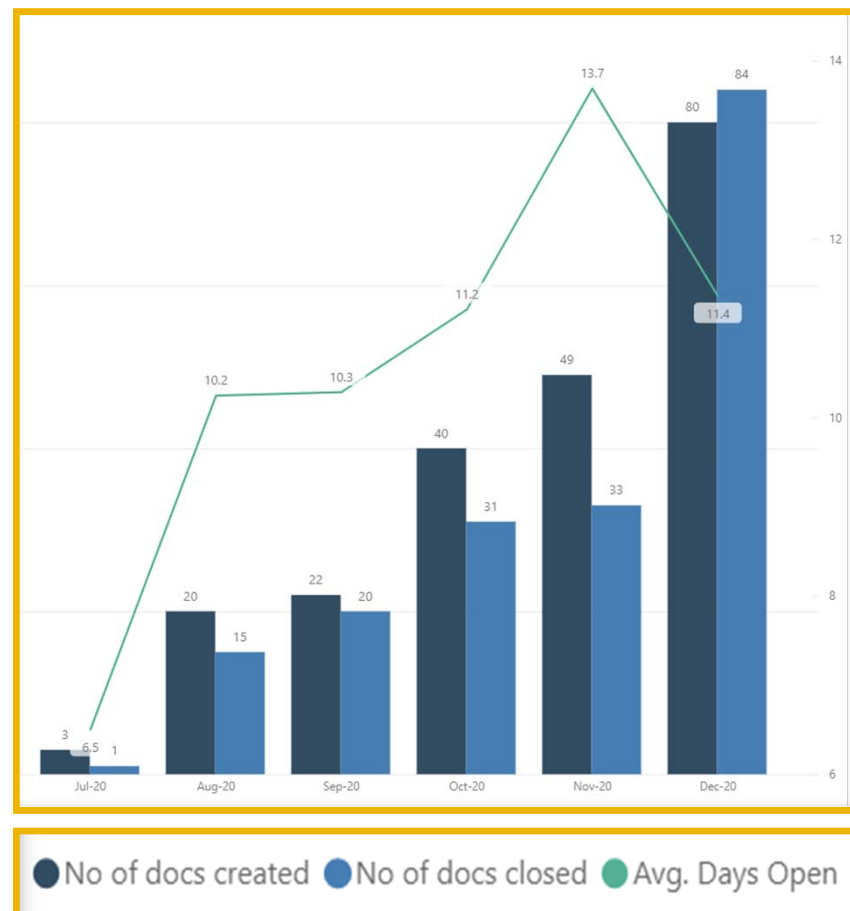
Data date: 12/31/2020



RP-5: Major Activities - Submittals

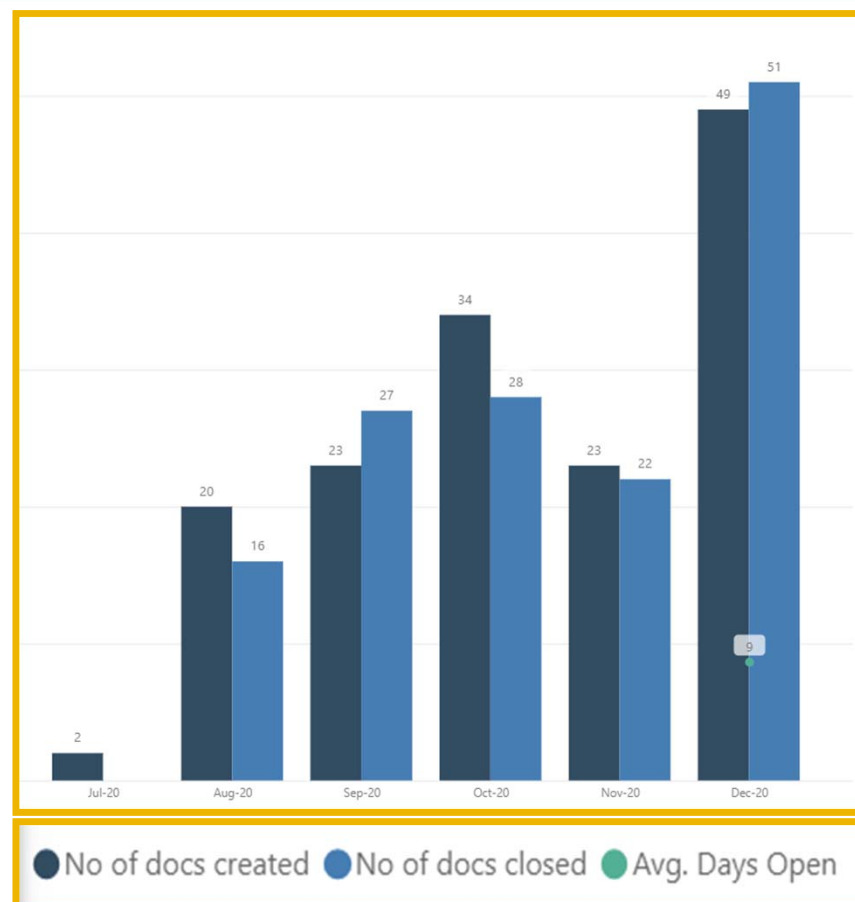
- **Submittals**

- Total: 355
- Resubmittals: 141
- This Month: 80
- Average Duration: 11.9 days



RP-5: Major Activities - RFIs

- Request For Information (RFI)
 - Total: 170
 - This Month: 49
 - Average Duration: 7.7 days



RP-5: Major Activities - Potholing

- **Potholing**

- Total: 570
- Complete: 370 (65%)
- Accuracy: 90%



RP-5: Major Activities - Potholing



RP-5: Major Activities – Project Control Schedule (PCS)

- **Preliminary (PBPCS)**
 - 5 submittals to approve
 - 35 comments carried forward
- **Baseline (BPCS)**
 - 2 submittals, not approved yet
 - Activities: 7,866
 - **Path forward**
 - 120-day limited construction schedule
 - Start January 4th, 2021
 - Interim Milestone January 14th, 2021
 - BPCS approved within 120 days or stop

| Submittal No. | Submission Date | Review Duration Work Days | Preliminary | | | | | Baseline | |
|---------------|-----------------|---------------------------|-------------|-----------|-----------|-----------|-----------|-----------|------------|
| | | | 12.0 | 12.1 | 12.2 | 12.3 | 12.4 | 108.0 | 108.1 |
| 12 | 07/27/20 | 3 | 11 | 6 | 4 | 4 | 4 | 4 | 0 |
| 12.1 | 09/04/20 | 8 | | 48 | 46 | 27 | 24 | 6 | 2 |
| 12.2 | 09/25/20 | 9 | | | 9 | 6 | 6 | 6 | 1 |
| 12.3 | 10/09/20 | 4 | | | | 6 | 0 | 0 | 0 |
| 12.4 | 10/14/20 | 3 | | | | | 1 | 0 | 0 |
| 108 | 10/31/20 | 14 | | | | | | 68 | 21 |
| 108.1 | 12/05/20 | 11 | | | | | | | 92 |
| Total | | | 11 | 54 | 59 | 43 | 35 | 84 | 116 |

| BPCS Submittal 108.1 Comments | High (P0) | Med (P1) | Low (P2) |
|-------------------------------|------------|----------|----------|
| | 36 | 38 | 42 |
| Closure by January 14th | 70% | 50% | |
| | 100% SCADA | | |

RP-5: Major Activities – Look ahead

- **Solids - Mass excavation**
- **Liquids - Secondary Clarifier 4B Demo**
 - Baseline schedule interim milestone
January 14th, 2021



RP-5: Major Activities

- **Staffing**
- **COVID**
 - Video meetings
 - WML separation in offices
 - CM team 2 week rotations
 - Field staff (separation, masks, ect.)



2 Week Rotation

Questions?

INFORMATION
ITEM
2C

2nd Quarter Strategic Planning & Resources Update



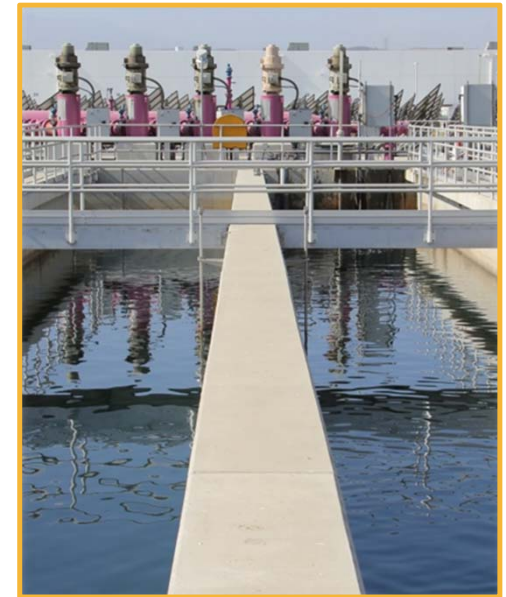
Topics

- Regulatory Compliance
- Planning Activities
- Energy Management
- Metropolitan Water District of Southern California



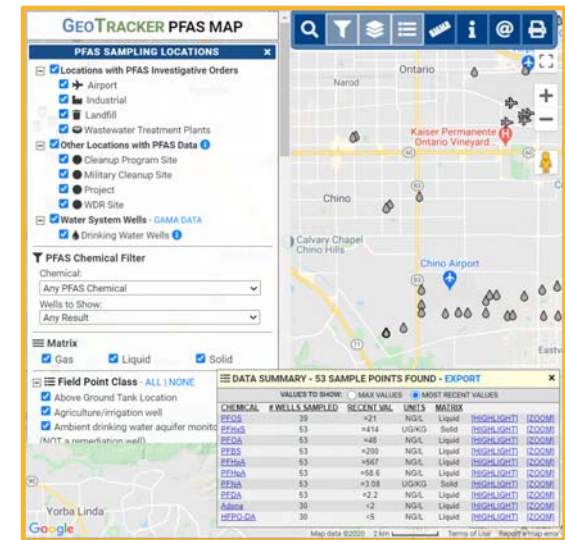
Regulatory Compliance

- Air Quality Management District
 - 100% Compliance
 - RP-5 expansion permit in-process
- Regional Water Quality Control Board
 - Chronic Toxicity – Reproduction (RP-5 and Prado)
- Pretreatment & Source Control
 - Regional Sewerage System
 - Issued 5 Permits and 10 Notices of Violation (NOV)
 - Non-Reclaimable Wastewater System/Brine Line
 - Issued 2 Permits and 4 Notices of Violation (NOV)
- Division of Drinking Water
 - Chino Desalter Authority (CDA 1) 100% compliance
 - Groundwater Recharge
 - PFOA Notification Level (NL) exceedance



PFAS Update

- Sampling
 - Recycled water groundwater recharge compliance
 - Recycled water (weekly), local runoff (quarterly)
 - Investigative order
 - Influent, effluent, biosolids (quarterly)
- Continue to track regulatory and legislative activities
- Collaboration with other agencies and associations
 - California Association of Sanitation Agencies (CASA)
 - Association of California Water Agencies (ACWA)
 - Southern California Alliance of Publicly Owned Treatment Works (SCAP)
 - Santa Ana Watershed Project Authority (SAWPA) - Upper watershed member agencies
 - University of California Irvine (UCI)
 - ISLE Utilities



Planning Activities

- **Water Use Efficiency (WUE) Business Plan**
 - Blueprint for planning and implementing WUE activities and programs over next five years
 - Evaluate existing programs, identify member agency priorities, develop program concepts list and outreach
 - Board consideration for adoption (March 2021)
- **Urban Water Management Plan and Water Shortage Contingency Plan**
 - California Water Code requirement every five years
 - Long-term resource planning to meet existing and future water needs
 - Water supplies, projected demands, compliance with water use targets, energy intensity
 - Board consideration for adoption (June 2021)
 - Submittal to Department of Water Resources (July 2021)

Request for Proposals

- Planning and compliance master services contracts
 - Support various IEUA planning efforts and regulatory requirements
 - Water resources management, hydraulic modeling, asset management, waste source investigations, water and wastewater treatment studies, air quality compliance
 - Board consideration for contract award (April 2021)
- Non-Reclaimable Wastewater System and Recycled Water Rate Studies
 - Perform comprehensive rate and revenue evaluation
 - Develop simplified rate structure that equitably recovers costs
 - Ensure customers and IEUA short and long-term financial stability
 - Board consideration for contract award (April 2021)

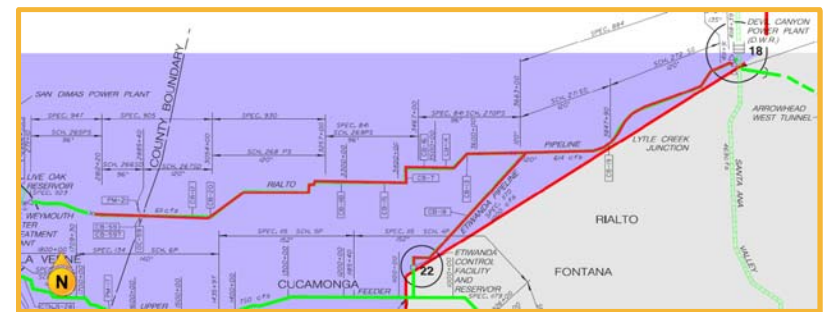
Electric Energy Service Provider Contract Amendment

- IEUA diversified energy portfolio
 - On-site renewable generation (solar, wind)
 - Southern California Edison (RP-4, RP-5, Pump stations)
 - Electric energy service provider (RP-1, RP-2, CCWRF)
- Prior Board Action
 - Approved the Shell Energy North America (US), L.P. agreements on January 15, 2020
 - Option to extend the contract for up to two-year increments, up to 7 years
- Justification for extending Shell's contract
 - Competitive pricing
 - Retail experience and customer service
 - Financial strength



Rialto and Etiwanda Pipelines Shutdown

- December 7 – 13, 2020
 - Successful, on schedule, minimal impacts
- California Department of Water Resources (DWR)
 - Pipeline repair downstream of the Devil Canyon Power Plant
- Metropolitan Water District of Southern California (MWD)
 - Pipeline inspection, mortar lining repair, valves replacement, long term rehab efforts
- Affected MWD Member Agencies
 - Inland Empire Utilities Agency
 - Three Valleys Municipal Water District
 - Municipal Water District of Orange County



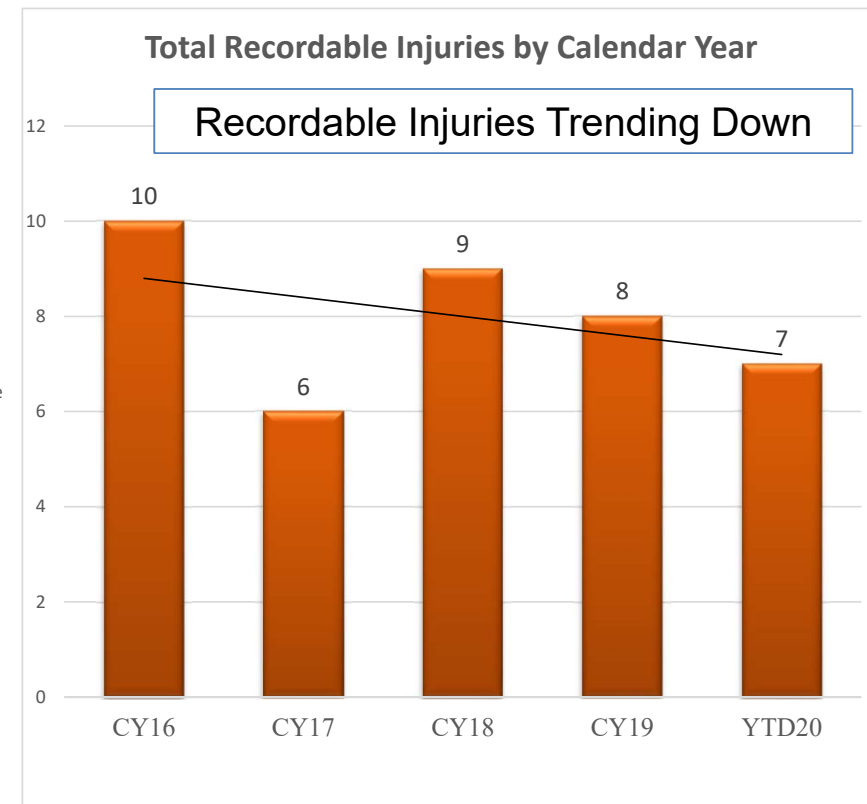
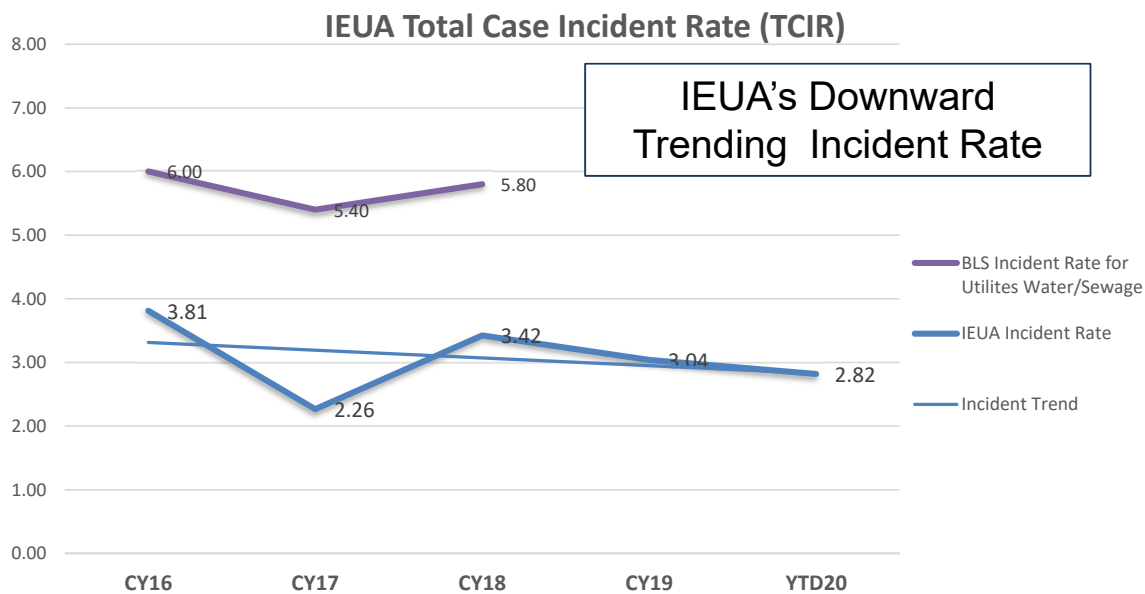
INFORMATION
ITEM
2D

Operations Division Quarterly Update



Robert Delgado
Manager of Operations and Maintenance
January 2021

IEUA Incident Rates vs. Industry & Total Recordable Injuries



COVID-19

- Staff and community safety are priority
 - Permit compliance
 - Completing all essential work
 - Facilities fully operational
- COVID Impact
 - Reduced staffing levels
 - Supply chain impact for parts/material delivery
 - Project execution delays

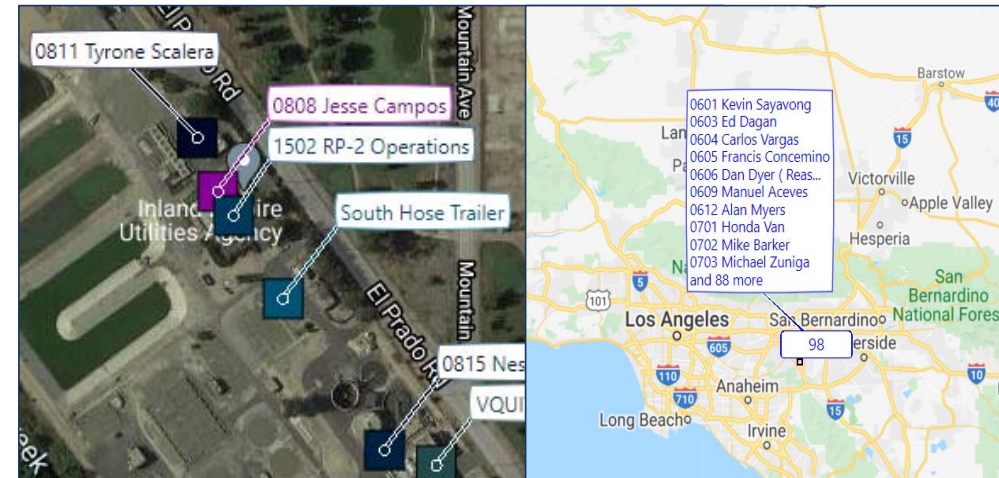


THANK YOU
IEUA EMPLOYEES!
YOU ARE ESSENTIAL!



Fleet: On-Board Diagnostic System (OBDS)

- Maintenance Diagnostics
 - Overall vehicle health report
 - Maintenance schedule
 - Alerts
- Safety Score Card
 - Seatbelt use
 - Hard Acceleration
 - Hard turning, etc.
- Smog Checks
 - Eliminate smog test on installed vehicles



Accident Reconstruction

Time of Collision: Tuesday, August 27, 2019 06:07:06 pm
Location: 15480 S Village Cir, Tampa, FL 33617, USA

Device Information

Vehicle Name: 10 - LR - Mini
 Driver: Unknown Driver
 VIN: WMWZ93C5XC1134757
 Vehicle: 2012 MINI MINI
 Time of Collision: Tuesday, August 27, 2019 06:07:06 pm

Speed Data

Speed at Collision: 6.835083112 Mph

Point of Impact

Collections: New Combo Hydro-Jet Vacuum Truck

- **Beneficial Use**

- Jetting and vacuuming of the sewer system
- Cleaning of lift stations and wet wells
- 50+ feet of vacuum lift capacity

- **Increased Reliability**

- Older unit did not meet emission standards
- Increased maintenance cost
- Unreliable equipment = reduced productivity

- **Mutual Aid and Community Outreach**

- Mutual Aid support
- Touch-A-Truck event



RP-5: Expansion Project Preparation

- Operations Impact
 - Initial stages of construction will eliminate redundancy in treatment and equipment
- Preparation
 - Worst case scenario planning using process control modeling
 - Increased focus on reliability and equipment uptime
 - Operations and Maintenance Resources Study



Cybersecurity

- **SolarWinds Breach**
 - Affects at least 18,000 organizations
 - IEUA Unaffected
- **Countermeasures**
 - Intelligence
 - Network Monitoring
 - Critical Controls
- **Improvements**
 - Updated Security Awareness training
 - Improved Endpoint Protection
 - Partners:
 - California Cybersecurity Integration Center (CalCSIC)
 - Cybersecurity & Infrastructure Security Agency (CISA)
 - Multi-State Information Sharing & Analysis Center (MS-ISAC)
 - Water Information Sharing and Analysis Center (WaterISAC)

30 Day Stats

- 37 Malware attachments Blocked
- 7710 Phish E-mail Blocked
- 16465 Web requests dropped



**CYBERSECURITY
& INFRASTRUCTURE
SECURITY AGENCY**

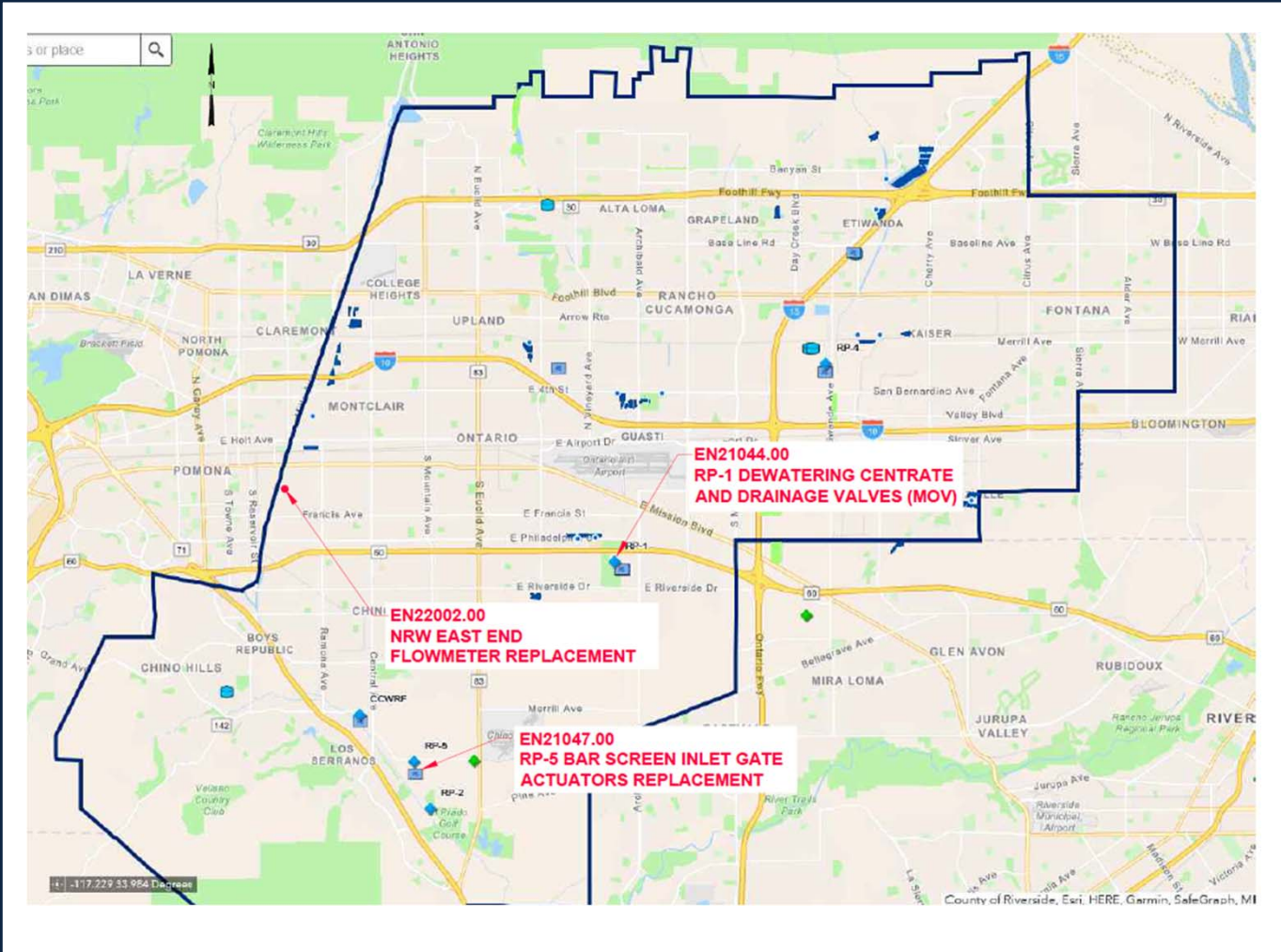


INFORMATION
ITEM
2E

Engineering and Construction Management Project Updates



Jerry Burke, PE
Manager of Engineering
January 2021



Project Location Map

RP-1 Dewatering Centrate and Drainage Valves

Project Goal: Improve Efficiency



Total Project Budget: \$320K
Project Completion: November 2021
Design Percent Complete: 5%

| Phase | Consultant Contractor | Current Contract | Amendments/ Change Orders |
|------------------|-----------------------|------------------|---------------------------|
| Design (Current) | Kennedy Jenks | \$72K | 0% |
| Construction | TBD | \$0 | 0% |

RP-5 Bar Screen Inlet & Outlet Gate Actuators Replacement

Project Goal: Extend Asset Life

Total Project Budget: \$370K
Project Completion: June 2021
Design Percent Complete: 60%

| Phase | Consultant Contractor | Current Contract | Amendments/ Change Orders |
|------------------|-----------------------|------------------|---------------------------|
| Design (Current) | In-house | N/A | 0% |
| Construction | TBD | \$0 | 0% |



NRW East End Flowmeter Replacement

Project Goal: Improve Efficiency



Total Project Budget: \$3.6M
Project Completion: April 2021
Construction Percent Complete: 25%

| Phase | Consultant/ Contractor | Current Contract | Amendments/ Change Orders |
|---------------------------|-----------------------------|---------------------|------------------------------|
| Design | Civiltec Engineering Inc | \$276K | 8.7% |
| Construction (Current) | SCW Contracting | \$2.3M | 0% |