

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

WEDNESDAY, MAY 11, 2022 10:00 A.M.

INLAND EMPIRE UTILITIES AGENCY\*
VIEW THE MEETING LIVE ONLINE AT IEUA.ORG
TELEPHONE ACCESS: (415) 856-9169 / Conf Code: 813 028 107#

PURSUANT TO AB361 AND RESOLUTION NO. 2022-4-7, ADOPTED BY THE IEUA BOARD OF DIRECTORS ON APRIL 6, 2022, IEUA BOARD AND COMMITTEE MEETINGS WILL CONTINUE TO BE CONDUCTED THROUGH TELECONFERENCE. IN AN EFFORT TO PROTECT PUBLIC HEALTH AND PREVENT THE SPREAD OF COVID-19, THERE WILL BE NO PUBLIC LOCATION AVAILABLE FOR ATTENDING THE MEETING IN PERSON.

The public may participate and provide public comment during the meeting by dialing the number provided above. Comments may also be submitted by email to the Board Secretary/Office Manager Denise Garzaro at <a href="mailto:dgarzaro@ieua.org">dgarzaro@ieua.org</a> prior to the completion of the Public Comment section of the meeting.

Comments will be distributed to the Board of Directors.

#### **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 prior to the public comment section or request to 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 April 13, 2022 Engineering, Operations, and Water Resources Committee meeting.

#### B. <u>ANTI-STRUVITE CHEMICAL CONTRACT AWARD</u>

Staff recommends that the Committee/Board:

- Approve a two-year contract, with three one-year renewal options, with Polydyne, Inc. for the supply of anti-struvite chemical (Flosperse 30S), for a potential total contract term of five years; and
- 2. Authorize the General Manager to execute the contract.

### C. CONTRACT AWARD FOR RP-1 AND RP-4 GENERATOR RETROFITS Staff recommends that the Committee/Board:

- 1. Award a construction contract for the RP-1 and RP-4 Generator Retrofits, Project No. EN22034, to Big Sky Electric, Inc., in the amount of \$175,000; and
- 2. Authorize the General Manager to execute the contract, subject to non-substantive changes.

#### 2. ACTION ITEMS

## A. <u>CONTRACT AWARD FOR RP-3 BASINS INFILTRATION RESTORATION</u> Staff recommends that the Committee/Board:

- 1. Approve the award of Contract No. 4600003133 to Jeremy Harris Construction, Inc. for the RP-3 Basins Infiltration Restoration Services for a not-to-exceed amount of \$166,733; and
- 2. Authorize the General Manager to execute the contract, subject to non-substantive changes.

## B. <u>IEUA – METROPOLITAN WATER DISTRICT OF SOUTHERN</u> <u>CALIFORNIA TERM SHEET FOR THE CHINO BASIN PROGRAM WATER</u> <u>STORAGE INVESTMENT PROGRAM ENVIRONMENTAL WATER</u> <u>EXCHANGE</u>

Staff recommends that the Committee/Board:

- 1. Approve the IEUA Metropolitan Water District of Southern California Term Sheet for the CBP WSIP environmental water exchange; and
- 2. Authorize the General Manager to negotiate terms and conditions consistent with the water exchange agreement terms for the development of a final agreement.

Engineering, Operations, & Water Resources Committee May 11, 2022 Page 3

- 3. INFORMATION ITEMS
  - A. RP-5 EXPANSION PROJECT UPDATE (POWERPOINT)

#### RECEIVE AND FILE INFORMATION ITEMS

- B. <u>ENGINEERING AND CONSTRUCTION MANAGEMENT PROJECT</u>
  UPDATES (POWERPOINT)
- 4. GENERAL MANAGER'S COMMENTS
- 5. <u>COMMITTEE MEMBER COMMENTS</u>
- 6. COMMITTEE MEMBER REQUESTED FUTURE AGENDA ITEMS

#### **ADJOURN**

#### **DECLARATION OF POSTING**

I, Denise Garzaro, CMC, Board Secretary/Office Manager of the Inland Empire Utilities Agency\*, a Municipal Water District, hereby certify that, per Government Code Section 54954.2, a copy of this agenda has been posted at the Agency's main office, 6075 Kimball Avenue, Building A, Chino, CA and on the Agency's website at <a href="www.ieua.org">www.ieua.org</a> at least seventy-two (72) hours prior to the meeting date and time above.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Board Secretary at (909) 993-1736 or <a href="mailto:dgarzaro@ieua.org">dgarzaro@ieua.org</a>, 48 hours prior to the scheduled meeting so that IEUA can make reasonable arrangements to ensure accessibility.

# CONSENT ITEM 1A



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

WEDNESDAY, APRIL 13, 2022 10:00 A.M.

#### **COMMITTEE MEMBER PRESENT**

Michael Camacho, Chair

#### **COMMITTEE MEMBER PRESENT via Video/Teleconference**

Marco Tule, Director

#### STAFF PRESENT

Shivaji Deshmukh, P.E., General Manager Christiana Daisy, P.E., Deputy General Manager Pierre Cavatte, Senior Engineer Denise Garzaro, Board Secretary/Office Manager Richard Lao, Senior Environmental Resources Planner Jason Marseilles, Manager of Engineering Vicky Salazar E.I.T., Associate Engineer Daniel Solorzano, Network Administrator Frank Sotomayor, Facilities Program Supervisor James Spears, Senior Engineer Travis Sprague, Principal Engineer Brian Wilson, P.E., CCM, Senior Engineer Jamal Zughbi, P.E., Senior Engineer

#### STAFF PRESENT via Video/Teleconference

Javier Chagoyen-Lazaro, Acting Assistant General Manager Joshua Aguilar, Senior Engineer Adham Almasri, Principal Engineer Tony Arellano, Safety Officer Pietro Cambiaso, Acting Director of Planning & Resources Robert Delgado, Manager of Maintenance Lucia Diaz, Manager of Facilities & Water System Programs Lisa Dye, Director of Human Resources Don Hamlett, Director of Information Technology Jennifer Hy-Luk, Administrative Assistant II Nolan King, Network Administrator Ryan Love, Deputy Manager of Operations Bonnie Marseilles. Administrative Assistant II Cathleen Pieroni, Senior Policy Advisor Sushmitha Reddy, Manager of Laboratories Jeanina Romero, Executive Assistant Yvonne Taylor, Administrative Assistant II Teresa Velarde, Manager of Internal Audit

Engineering, Operations, and Water Resources Committee April 13, 2022 Page 2

#### **CALL TO ORDER**

Committee Chair Michael Camacho called the meeting to order at 10:00 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 – 1E. CONSENT ITEMS

The Committee:

- ♦ Approved Minutes of the March 9, 2022 Engineering, Operations, and Water Resources Committee meeting.
- ♦ Recommended that the Board:
  - Approve Amendment No. 4600002893-001 to Liberty Landscape, Inc. to provide Landscape 'As-Needed Services' for an additional \$350,000 over the remaining contract term; and
  - Authorize the General Manager to execute the amendment to the service contract.
- and
  - 1. Award a service contract for the RP-1 Coating and Painting Services to Tony Painting, for a not-to-exceed amount of \$1,131,514;
  - 2. Increase the project PA22002 budget amount from \$750,000 to \$1,200,000; and
  - 3. Authorize the General Manager to execute the service contract;

#### and

- 1. Award a construction contract for the RP-1 East Influent Gate Replacement, Project No. EN21042, to Tharsos, Inc. in the amount of \$302,000;
- Approve a total project budget and FY 2021/22 budget transfer from the RP-4 Primary Clarifier Rehabilitation, Project No. EN17043 to the RP-1 East Influent Gate Replacement, Project No. EN21042, in the amount of \$175,000 in the RO/10800 Fund; and
- 3. Authorize the General Manager to execute the construction contract and budget transfer, subject to non-substantive changes;

#### and

- 1. Approve a \$40,000 increase to the construction change order for the RP-1 Solids Hot Water Loop Replacement, Project No. EN20065, to Ferreira Construction Co., increasing the not-to-exceed amount of \$180,000 to \$220,000, and increasing the contract from \$1,341,542 to \$1,381,542 (approximately 3% increase);
- Approve a total project budget and FY 2021/22 budget transfer from the RP-4 Primary Clarifier Rehabilitation, Project No. EN17043 to the RP-1 Hot Water Loop Replacement, Project No. EN20065, in the amount of \$210,000 in the RO/10800 Fund; and

3. Authorize the General Manager to execute the change order and budget amendment, subject to non-substantive changes;

as Consent Calendar items on the April 20, 2022 Board meeting agenda.

#### 2A - 2B. ACTION ITEMS

The Committee:

- Recommended that the Board:
  - 1. Award a construction contract for the RP-1 Disinfection Improvements, Project No. EN11039, to Innovative Construction Solutions, in the amount of \$8,575,000;
  - 2. Award a consulting contract for Engineering Services During Construction to Carollo Engineers, Inc. for a not-to-exceed amount of \$598,411;
  - 3. Approve a total project budget increase to the RP-1 Disinfection Improvements, Project No. EN11039, in the amount of \$4,450,000 in the RC/10900 Fund; and
  - 4. Authorize the General Manager to execute the construction contract, consultant contract, and budget increase, subject to non-substantive changes;

#### and

- 1. Approve a consultant contract amendment for the RP-5 Solids Handling Facility Future Uses RFP, Project No. EN20034.03, to GHD Inc. for a not-to-exceed amount of \$123,600, increasing the contract from \$148,865 to \$272,465 (83% increase);
- Approve a total project budget transfer and FY 2021/22 budget transfer from the RP-4 Primary Clarifier Rehab, Project No. EN17043 (Capital), to the RP-5 Solids Handling Facility Future Uses, Project No. EN20034.03 (O&M), in the amount of \$300,000 in the RO/10800 Fund; and
- 3. Authorize the General Manager to execute the contract amendment and budget transfer, subject to non-substantive changes;

as Consent Calendar items on the April 20, 2022 Board meeting agenda.

#### 3A - 3C. INFORMATION ITEMS

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

- Operations & Maintenance Department Quarterly Update
- ♦ RP-5 Expansion Project Update: April 2022
- Engineering and Construction Management Project Updates

#### 3. GENERAL MANAGER'S COMMENTS

General Manager Shivaji Deshmukh stated that as the Agency has been reporting, the status of the drought is severe for parts of Metropolitan Water District of Southern California's (MWD) service area receiving only State Water Project (SWP) supplies, which includes IEUA. He emphasized that the time to take action to reduce SWP demands is now. MWD presented an information item to its Board on April 12 proposing to establish a mandatory irrigation schedule, with outdoor watering allowed only one day per week for eight minutes per station. MWD could impose a \$2,000/AF penalty on all MWD water purchased for any agencies who do not comply. The Agency believes this proposal to be vague, overbroad, and challenging to enforce. He stated that customer agencies voiced concern as well and together sought an approach that allocated water to each retail agency. That action would trigger actions under their respective Water Shortage Allocation Plans. With guidance from legal counsel, IEUA submitted a comment letter opposing MWD's proposed irrigation restrictions. General Manager Deshmukh stated he provided comments at yesterday's Committee meeting, along with Cucamonga Valley Water District's Board President and Monte Vista Water District's Board President and General Manager. Together, they asked for the flexibility to institute their own allocation approach, which was ultimately supported by MWD General Manager Hagekhalil. Staff held a follow-up meeting with the general managers of our customer agencies this morning and discussions are underway to quickly establish a workable program to restrict imported water deliveries to just 40,000 AFY compared to the normal deliveries of approximately 65,000 AFY. He shared that this is a very dynamic situation that has fostered good collaboration with our customer agencies.

Director Camacho reported that MWD adopted an annual rate increase of 5 percent for 2023 and 2024. Metropolitan staff originally submitted a proposal for 8 percent annual increases in both years, but the Board pushed for consecutively lower rate options until this fourth option of a 5 percent increase in 2023 and another 5 percent increase in 2024 was approved by the Board. General Manager Hagekhalil was tasked with finding alternative sources of income for MWD to account for increased costs.

Director Camacho added that after much discussion, the MWD Board supported a contribution of \$20 million to advance planning studies that will help to inform a final Board decision on whether to construct Sites Reservoir.

General Manager Deshmukh also reported that at the MWD Water Planning and Stewardship Committee meeting, the Committee authorized their General Manager to negotiate an agreement consistent with the draft terms of the MWD/IEUA Exchange Agreement; and MWD's General Manager determined that the proposed action is exempt or otherwise not subject to CEQA.

#### 4. COMMITTEE MEMBER COMMENTS

There were no Committee member comments.

#### 5. COMMITTEE MEMBER REQUESTED FUTURE AGENDA ITEMS

There were no Committee member requested future agenda items.

#### <u>ADJOURNMENT</u>

With no further business, Committee Chair Camacho adjourned the meeting at 11:04 a.m.

Engineering, Operations, and Water Resources Committee April 13, 2022 Page 5

Respectfully submitted,

Denise Garzaro Board Secretary/Office Manager

\*A Municipal Water District



## CONSENT ITEM 1B



**Date:** May 18, 2022

To: The Honorable Board of Directors From: Shivaji Deshmukh, General Manager

**Committee:** Engineering, Operations & Water Resources 05/11/22

**Staff Contact:** Christiana Daisy, Deputy General Manager

Subject: Anti-Struvite Chemical Contract Award

#### **Executive Summary:**

During the dewatering operation of digested sludge, a waste stream referred to as centrate, is created. Centrate is the liquid separated from the anaerobic digested sludge during the dewatering process via centrifuges. The centrate cannot be reintroduced into the plant because of the high ammonia loading, thus it is discharged via a pressurized pipeline to the Non-Reclaimable Wastewater system. The constituents of centrate within a pressurized pipeline create an environment for struvite to form on pumps, pipe walls, and valves. The Agency currently uses an anti-struvite chemical to keep the struvite forming constituents in solution to avoid struvite build up in the pipeline.

The Agency's current anti-struvite chemical contract expires in June 2022. A Request for Proposal was issued on PlanetBids on January 4, 2022 to secure a new anti-struvite chemical supplier. There was one responsive bidder, Polydyne, Inc (Polydyne). The proposal was evaluated and product sample tested to determine that Polydyne was a responsible and responsive bidder. Polydyne's bid is approximately 25% higher than the current rate, but the proposed rate is in line with recent chemical cost increases due to supply chain issues. Polydyne is the current anti-struvite chemical supplier and has performed well in their current capacity.

#### **Staff's Recommendation:**

- 1. Approve a two-year contract, with three one-year renewal options, with Polydyne, Inc. for the supply of anti-struvite chemical (Flosperse 30S), for a potential total contract term of five years; and
- 2. Authorize the General Manager to execute the contract.

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

Account/Project Name:

N/A

Fiscal Impact (explain if not budgeted):

N/A

#### **Prior Board Action:**

The IEUA Board approved a contract with Polydyne, Inc. for anti-struvite chemical for five years on June 15, 2016.

#### **Environmental Determination:**

Not Applicable

N/A

#### **Business Goal:**

The IEUA Anti-Struvite Chemical Contract is consistent with IEUA's Business Goal of Business Practices, specifically the Operations objective that IEUA is committed to sustainable cost containment of operating and capital costs.

#### **Attachments:**

Attachment 1 - PowerPoint Presentation

Attachment 2 - Contract

https://www.dropbox.com/s/nzgkuqjsfzg5178/Anti-struvite%20Chemical%20Polydyne%20Contract%204600003114.pdf?dl=0

Board-Rec No.: 22111





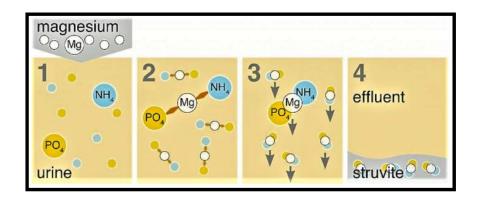


 Regional Water Recycling Plant No. 1 (RP-1) Dewatering Building











- Struvite = Magnesium + Ammonium + Phosphate
- -pH dependent: 8-9.5



- Anti-struvite chemical keeps struvite in suspension
  - Reduces struvite build up in piping
  - Maintains flow output, reduced dewatering runtimes





One proposal was received on January 18, 2022

#### **Bid Received**

Polydyne, Inc



Proposal was scored based on the pre-determined weighted criteria

#### **Selection Criteria**

- Prices and Fees
- Effectiveness/efficiency of proposed product as determined during anti-struvite chemicals trials
- References
- Completeness/Responsiveness, and accuracy of proposal
- Ability to comply with all Agency insurance requirements







- The evaluation of the proposal received concluded that Polydyne, Inc would provide the best value to the Agency
  - Supplier from June 2010 through June 2022
  - Current contract June 2016 through June 2022
- One of the largest producers of polymers/antiscalants
- Unit price increase of 25% for Flosperse 30S
  - Raw material and supply chain issues
  - -Forecasted FY2022/23 cost = \$220,000





- Approve a two-year contract, with three one-year renewal options, with Polydyne, Inc. for the supply of anti-struvite chemical (Flosperse 30S), for a potential total contract term of five years; and
- Authorize the General Manager to execute the contract.

The IEUA Anti-Struvite Chemical Contract is consistent with **IEUA's Business Goal of Business Practices**, specifically the Operations objective that IEUA is committed to sustainable cost containment of operating and capital costs.

# CONSENT ITEM 1 C



**Date:** May 18, 2022

To: The Honorable Board of Directors From: Shivaji Deshmukh, General Manager

Committee: Engineering, Operations & Water Resources 05/11/22

**Staff Contact:** Christiana Daisy, Deputy General Manager

Subject: RP-1 and RP-4 Generator Retrofits Construction Contract Award

#### **Executive Summary:**

The Regional Water Recycling Plant No.1 (RP-1) Tertiary Plant and the Regional Water Recycling Plant No.4 (RP-4) treat wastewater to produce Title 22 effluent for use in Inland Empire Utilities Agency's (IEUA) Recycled Water Distribution System. To provide backup power to the treatment plants in case of a power failure, the RP-1 Tertiary Plant is furnished with a 500 kW diesel emergency generator and RP-4 is furnished with a 2,000 kW diesel emergency generator. The generators are currently equipped with obsolete Electronic Modular Control Panels (EMCPs) that are nearing the end of their useful life. If the EMCPs were to fail, the RP-1 Tertiary Plant or RP-4 would be without critical emergency power. This project will upgrade the EMCPs at both locations, reducing risk, increasing safety, and providing IEUA with more visibility on the upgraded generator panels during load testing and power outages.

On February 28, 2022, IEUA issued an invitation for bids to the under \$2,000,000 prequalified electrical contractors. On March 30, 2022, two bids were received. Big Sky Electric, Inc. was the lowest responsive, responsible bidder with a bid price of \$175,100. The engineer's estimate was \$160,000.

#### **Staff's Recommendation:**

- 1. Award a construction contract for the RP-1 and RP-4 Generator Retrofits, Project No. EN22034, to Big Sky Electric, Inc., in the amount of \$175,100; 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:

EN22034/RP-1 RP-4 Generator Retrofits

Fiscal Impact (explain if not budgeted):

None.

#### **Prior Board Action:**

None.

#### **Environmental Determination:**

**Statutory Exemption** 

CEQA exempts a variety of projects from compliance with the statute. This project qualifies for the Common Sense Exemption as defined in Section 15061(b)(3) of the State CEQA Guidelines

#### **Business Goal:**

RP-1 and RP-4 Generator Retrofits Project is consistent with IEUA's Business Goal of Wastewater Management, specifically the Asset Management objective that IEUA will ensure the treatment facilities are well maintained, upgraded to meet evolving requirements, sustainability managed, and can accommodate changes in regional water use.

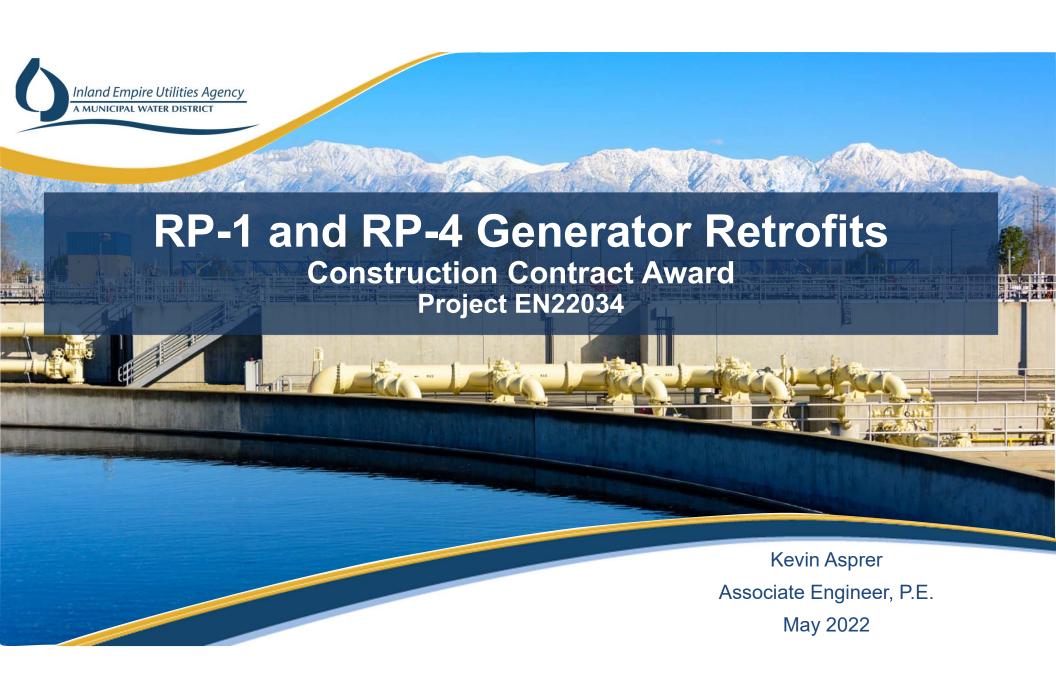
#### **Attachments:**

Attachment 1 - PowerPoint

Attachment 2 - Construction Contract

Board-Rec No.: 22107

## **Attachment 1**



## **Project Location**





Emergency Generator

Regional Plant No. 1 Tertiary

Regional Plant No. 4

2

## Inland Empire Utilities Agency A MUNICIPAL WATER DISTRICT

## **Background**

- Existing Emergency Generators provide emergency power
- Existing Electronic Modular Control Panels (EMCPs) are obsolete
- Increased risk if EMCP fails; emergency power would be unavailable to maintain wastewater treatment



**RP-4 EMCP** 



**RP-1 Tertiary Plant EMCP** 

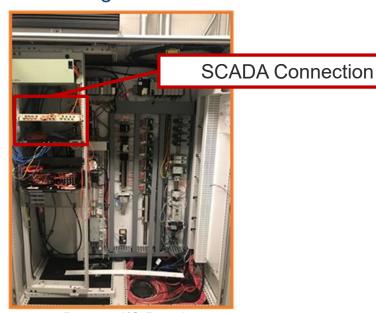
## Inland Empire Utilities Agency A MUNICIPAL WATER DISTRICT

### The Project

- Upgrade EMCP at the treatment plants.
- Install new conduits and communication connections to the SCADA Network for future SCADA integration
- Reduce risk, increase safety and provide IEUA with more visibility on the upgraded generator panels during load testing and power outages



**New EMCP** 



Remote I/O Panel



### **Contractor Selection**

#### Two bids were received on March 30, 2022:

Bidder's Name	Final Bid Amount
Big Sky Electric Inc.	\$175,100
Ferreira Construction Co., Inc.	\$180,084
Engineer's Estimate	\$160,000



## **Project Budget and Schedule**

Description	Estimated Cost EN22034
Design Services	\$9,894
IEUA Design Services (actuals)	\$9,894
Construction Services	\$17,510
IEUA Construction Services (~10%)	\$17,510
Construction	\$210,120
Construction Contract (this action)	\$175,100
Contingency (~20%)	\$35,020
Total Project Cost	\$237,524
Total Project Budget:	\$240,000

Project Milestone	Date
Construction	
Construction Contract Award	May 2022
Construction Completion	January 2023





- Award a construction contract for the RP-1 and RP-4 Generator Retrofits,
   Project No. EN22034, to Big Sky Electric, Inc., in the amount of \$175,100; and
- Authorize the General Manager to execute the contract, subject to nonsubstantive changes.

The RP-1 and RP-4 Generator Retrofits Project is consistent with *IEUA's business goal of Wastewater Management*, specifically the Asset Management objective that IEUA will ensure the treatment facilities are well maintained, upgraded to meet evolving requirements, sustainability managed, and can accommodate changes in regional water use.

## **Attachment 2**

#### **CONTRACT NUMBER: 4600003137**

#### Regional Plant No. 1 Regional Plant No. 4 Generator Retrofits

#### 1.0 CONTRACT

THIS CONTRACT made and entered into this <u>18th</u> day of <u>May</u>, <u>2022</u>, by and between **Big Sky Electric 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 IFB-JV-21-012, Project No. EN22034, Regional Plant No. 1 Regional Plant No. 4 Generator Retrofits 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 Section 4 Forms, Bid Price Schedule & Bid Forms, and accepted by IEUA, and set forth in this below.

Total Bid Price: \$175,100 Dollars and 00 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, 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 **Two Hundred Fifty (250)** calendar days after the Notice to Proceed. 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 Section 2 General Information, S., Liquidated Damages 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.
- 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, 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 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*,	CONTRACTOR
San Bernardino County, California.	
•	DocuSigned by:
By:	By: John Phillips
Shivaji Deshmukh	John Philips
General Manager	President

<sup>\*</sup> A Municipal Water District

# ACTION ITEM 2A



**Date:** May 18, 2022

To: The Honorable Board of Directors From: Shivaji Deshmukh, General Manager

**Committee:** Engineering, Operations & Water Resources 05/11/22

**Staff Contact:** Christiana Daisy, Deputy General Manager

**Subject:** Contract Award for RP-3 Basins Infiltration Restoration

#### **Executive Summary:**

Groundwater Recharge operations and maintenance requires periodic cleaning of basins to restore infiltration rates and optimize recharge. At this time, RP-3 Basin cells 1 and 4 require infiltration restoration to remove accumulated fine-grained storm sediments that have significantly reduce the site's recharge capacity. Restoration includes mechanical removal of these sediments. The RP-3 site was last restored in 2019. A request for proposal (RFP-GD-22-003) was prepared for the work. A job site walk was conducted on March 15, 2022 and was attended by three firms. The following bids were received from two firms.

JCE Equipment, Inc. \$163,500.00 Jeremy Harris Construction, Inc. \$166,733.00

Despite being the low bidder, JCE Equipment, Inc. was unable to meet the project schedule. Therefore, Jeremy Harris Construction, Inc. is the lowest bidder able to meet the project terms.

#### **Staff's Recommendation:**

It is recommended that the Board of Directors:

- 1. Approve the award of Contract No. 4600003133 to Jeremy Harris Construction, Inc. for the RP-3 Basins Infiltration Restoration Services for a not-to-exceed amount of \$166,733.00; 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:

Fiscal Impact (explain if not budgeted):

IEUA and Chino Basin Watermaster will cost share using their agreed upon pro rata cost-sharing methodology.

Full account coding (internal AP purposes only): 10300 - 161215 - 410000 - 521080 Project No.:

#### **Prior Board Action:**

None.

#### **Environmental Determination:**

Not Applicable

Earthwork services will comply with the State of California Department of Fish and Wildlife, Notification No. 1600-2009-0072-R6 Revision 2, dated February 15, 2010, Long Term Routine Maintenance Streambed Alteration Agreement for Existing Facilities.

#### **Business Goal:**

The RP-3 Basins Infiltration Restoration Contract is consistent with IEUA's Business Goal of Water Reliability to provide a reliable and cost-effective water supply and promoting sustainable water use throughout the region.

#### **Attachments:**

Attachment 1: PowerPoint Presentation

Attachment 2: Contract No. 4600003133 linked:

https://www.dropbox.com/s/tot5b77ehanh0hp/JHC%20Draft.pdf?dl=0

Board-Rec No.: 22112













#### The Infiltration Restoration Process

- RP3 cells 1A and 1B, then cells 4A and 4B
- Drain by Gravity
- Dewatering by Pumping (IEUA staff)
- Dry Out Floors (2 weeks)
- Work Process
  - —Scrape material from side slopes
  - —Scrape material from floors
  - Haul away material
  - —Rip and smooth basin floors
- Clean Distribution Channel
  - —Scrape and stockpile material from distribution channel
  - Remove material from channel and haul away



## **Scraping and Stockpiling Sediment** in RP3 Cell 4B





## **Scraping Sediment in Distribution Channel**





#### **Contractor Selection**

- Site walk conducted on March 15, 2022
- Attended by three firms.
- Two bids were received on March 24, 2022

Bidder	Bid
JCE Equipment Inc.	\$163,500.00
Jeremy Harris Construction, Inc.	\$166,733.00

- Low bidder is unable to meet the project schedule
- Jeremy Harris Construction, Inc. is able to meet the project schedule
- IEUA and CBWM will cost share the RP3 Basins work using the basin's Pro Rata for Fiscal Year 2021/22 (IEUA 88% and CBWM 12%)





- Approve the award of Contract No. 4600003133 to Jeremy Harris Construction, Inc. for the RP3 Basins Infiltration Restoration Services for a not-to-exceed amount of \$166,733.00; and
- Authorize the General Manager to execute the contract, subject to non-substantive changes.

The Infiltration Restoration Project is consistent with IEUA's business goal of **Water Reliability** to develop and implement an integrated water resource management plan.

# ACTION ITEM 2B



**Date:** May 18, 2022

To: The Honorable Board of Directors From: Shivaji Deshmukh, General Manager

**Committee:** Engineering, Operations & Water Resources 05/11/22

**Executive Contact:** Christiana Daisy, Deputy General Manager

 $| \mathbf{v} |$ 

**Subject:** IEUA - Metropolitan Water District of Southern California Term Sheet for the Chino Basin Program Water Storage Investment Program Environmental Water Exchange

#### **Executive Summary:**

The Chino Basin Program (CBP) was deemed feasible by the California Water Commission (CWC) in November 2021 through the Water Storage Investment Program (WSIP) to be funded by Proposition 1 which comprises of a water exchange of 375,000 acre-feet (AF) over a 25-year term. Inland Empire Utilities Agency (IEUA) is seeking the cooperation and partnership of Metropolitan Water District of Southern California (Metropolitan) to implement this exchange with the California Department of Water Resources (DWR) and the California Department of Fish and Wildlife (CDFW). Metropolitan will coordinate with DWR and CDFW to develop operating terms that will facilitate this exchange.

A term sheet was developed by IEUA and Metropolitan to define the terms of the WSIP water exchange requirements for call years during the 25-year period. Metropolitan will receive an exchange of water from IEUA from water stored in the Chino Basin. During a call year, IEUA's performance requirements will consist of the local production of 40,000 AF of which 10,000 AF will be pumped back to Metropolitan's Rialto Pipeline and 30,000 AF will be distributed to local participating agencies. The coordination and implementation of the water exchange will be managed by a CBP operating committee made up of IEUA and Metropolitan staff.

#### **Staff's Recommendation:**

- 1. Approve the IEUA Metropolitan Water District of Southern California Term Sheet for the CBP WSIP environmental water exchange; and
- 2. Authorize the General Manager to negotiate terms and conditions consistent with the water exchange agreement terms for the development of a final agreement.

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

Account/Project Name:

There is no impact to budget with this action.

Fiscal Impact (explain if not budgeted):

N/A

Full account coding (internal AP purposes only): - - - Project No.:

#### **Prior Board Action:**

None

#### **Environmental Determination:**

Not Applicable

#### **Business Goal:**

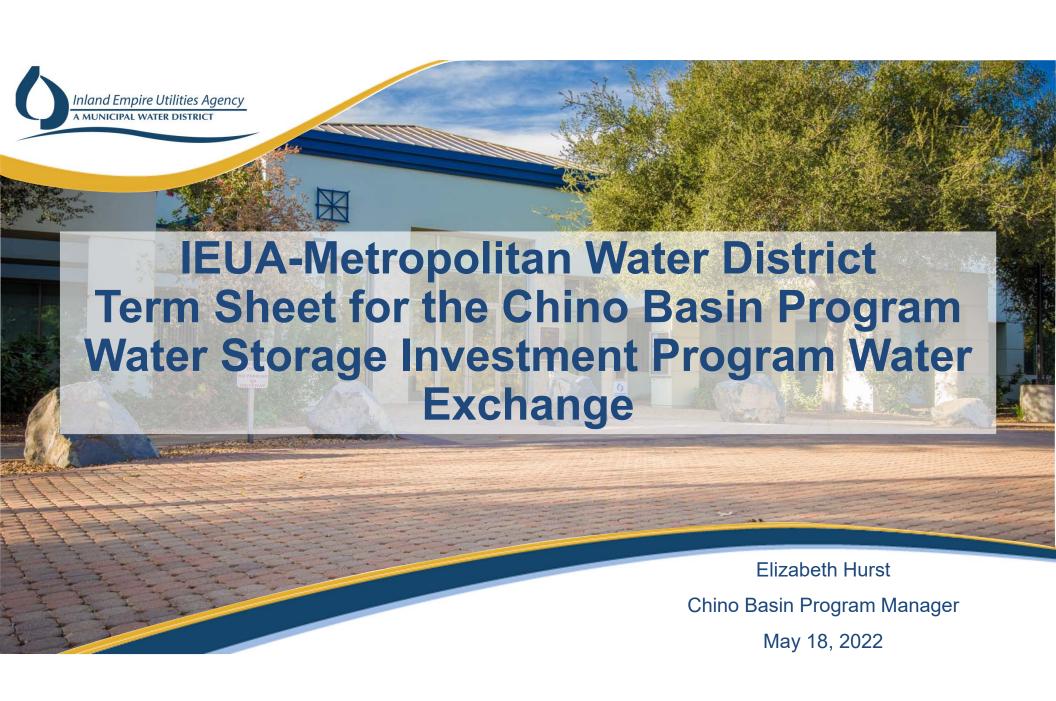
The IEUA - Metropolitan Term Sheet for the CBP WSIP Environmental Water Exchange supports IEUA's business goal of Water Reliability, of implementing an integrated water resources management plan providing reliable and cost-effective water supply and promoting sustainable water use throughout the region.

#### **Attachments:**

Attachment 1 - Presentation

Attachment 2 - Term Sheet for WSIP Environmental Water Exchange

Board-Rec No.: 22103







✓ CWC Feasibility

Determination

✓ Receive comments on draft EIR

✓ Certify EIR

Local Participating Agency

Agreement Phase I

Metropolitan Agreement Phase I CBWM Storage

& Recovery
Application

Draft

Agreement Terms –

Resource Agencies:

CDFW

• DWR

Metropolitan

Finalize

Participating Agency

Agreements

Finalize Resource Agency Agreements Pre-Design for facilities to 30%

CWC Final Funding Award

*Nov-Dec 2021* 

Spring 2022

*Winter 2022* 

Summer 2023

Fall 2023





- The California Water Commission (CWC) deemed the Chino Basin Program (CBP) feasible for the Water Storage Investment Program (WSIP) funded by Proposition 1.
- The CBP will provide an environmental water exchange of 375,000 acre-feet for 25 years with the California Department of Water Resources (DWR) for pulse flows as called by the California Department of Fish and Wildlife.
- To facilitate the exchange, IEUA is seeking to partner with Metropolitan Water District of Southern California (Metropolitan) for the 25-year term.
- A term sheet between IEUA and Metropolitan will aide in the implementation of the water exchange. Metropolitan's Board of Directors approved the term sheet on April 12, 2022.
- The Regional Technical and Policy Committees were presented the term sheet as an information item at the late April/early May meetings.



### **Term Sheet Highlights**

- Metropolitan will work in good faith to develop operating terms and conditions with the state agencies to facilitate the exchange.
- Metropolitan will facilitate the release of water from Lake Oroville to ecosystem improvements during a call year.
- IEUA will coordinate up to 40,000 AF of local production during a call year which consist of 30,000 AF of in-lieu deliveries and 10,000 AF of direct pumping into Metropolitan's Rialto Pipeline.
- A "CBP Operating Committee" will be established to coordinate and administer an
  operating plan for local performance and water exchanges. The committee will consist of
  IEUA and Metropolitan staff from various departments.





- Approve the IEUA Metropolitan Water District of Southern California Term Sheet for the CBP WSIP environmental water exchange; and
- Authorize the General Manager to negotiate terms and conditions consistent with the water exchange agreement terms for the development of a final agreement.

The IEUA-Metropolitan Water District Term Sheet for the Chino Basin Program supports IEUA's business goal of Water Reliability by implementing an integrated water resources management plan that provides the region with reliable and cost-effective water supply and promotes sustainable water use.

#### **Attachment 2**

Term Sheet for Water Storage and Investment Program (WSIP) Environmental Water Exchange between Metropolitan Water District of Southern California (Metropolitan) and Inland Empire Utilities Agency (IEUA)

#### **Exchange Quantities**

- 1. WSIP is a water storage investment program funded by the California Water Commission (CWC) through Proposition 1 and Inland Empire Utilities Agency (IEUA).
- 2. The water exchange will total 375,000 acre-feet (AF) of water in increments (40,000 AF per call year maximum) over a 25-year agreement term.
- 3. IEUA will facilitate the production and storage of 375,000 AF of advanced treated recycled water supply in the Chino Groundwater Basin.
- 4. IEUA will deliver stored groundwater into the Metropolitan service area during call years. In exchange, Metropolitan will provide the water to facilitate the release of water from Oroville for ecosystem-improvement purposes (pulse flows).
- 5. When water is released from Lake Oroville for pulse flows, Metropolitan will receive an exchange of water from IEUA from water stored in the Chino Basin.
- 6. IEUA shall coordinate up to 40,000 AF of local production through a combination of in-lieu means (30,000 AF of capacity) and direct pumping into Metropolitan's Rialto Pipeline (10,000 AF of capacity).
- 7. This IEUA production fulfills IEUA's obligation under the exchange agreement.

#### **Operations**

- 8. The Environmental Water Exchange shall not negatively impact the water supply or system operations of the State Water Project (SWP), Metropolitan, or its member agencies.
- 9. Metropolitan will work in good faith to develop the operating terms and conditions and agreement with the State to facilitate the exchange.
- 10. California Department of Water Resources (DWR) will identify the annual capacity available for pulse flows. California Department of Fish and Wildlife (CDFW) will limit calls to below normal and dry years. DWR will preapprove the potential volume of pulse flows in any potential call year. If called by CDFW, the pulse flow release from Lake Oroville will occur in the Spring, with the water exchange between Metropolitan and IEUA taking place as agreed upon in the CBP Operating Committee.
- 11. Metropolitan has the ability to decline any annual call when IEUA is unable to show availability of exchange water, when Metropolitan operations limit the ability to receive exchange supplies from IEUA or when the exchange will negatively impact Metropolitan or its member agencies. Such actions shall be brought to the CBP Operating Committee for discussion.
- 12. A schedule for local performance and completing water exchanges will be established in the operating plan and administered by the CBP Operating Committee.
- 13. Pump-in/in-lieu deliveries shall be metered to account for all deliveries.
- **14.** Pump-in water will need to comply with Metropolitan's present and future pump-in water quality and system protection requirements.

- 15. A "CBP Operating Committee" will be established to coordinate IEUA and Metropolitan activities. The CBP Operating Committee will generate an annual operating plan in anticipation of a call year. The operating plan will consider the amount of call water, a performance schedule, the in lieu/pumpin split, operations and maintenance requirements, water quality monitoring, accounting, reporting, and performance certification/reconciliation.
- 16. Metropolitan shall have the right to withhold subsequent call year 'go' decisions should IEUA be unable to perform in a given year until such required performance is achieved.
- 17. Metropolitan will support future efforts by IEUA to obtain federal funding to offset program costs.
- 18. Metropolitan will work collaboratively and in a timely fashion with IEUA to explore additional benefits including opportunities for long term storage programs in the Chino Basin.

#### Cost

- 19. Metropolitan has no obligation to invest in the facilities required for the exchange.
- 20. IEUA will enter into a take or pay contract committing to pay the supply rate for the potential in-lieu delivery from the CBP (30 TAF). In non-call years, IEUA would get credited that amount toward their Metropolitan water purchases. In call years, Metropolitan would refund the supply rate charges to IEUA for the certified amount of in-lieu delivery from the CBP as part of the annual reconciliation process.
- 21. Pulse flow releases from Lake Oroville and subsequent reduction in Table A deliveries to Metropolitan from SWP facilities will affect schedules and quantities of SWP hydropower generation and pump load requirements. IEUA and Metropolitan will work with DWR to implement equitable accounting and reimbursement procedures to the satisfaction of all parties to account for any resulting changes in the variable operation and maintenance, power and replacement (OMP&R) component of Transportation Charges as designated in SWP water supply contracts. This accounting will include consideration of real time energy market considerations and be based on application of best practices for management of the SWP energy portfolio by DWR. Net costs or credits will be exchanged between IEUA and DWR by separate agreement and are not a responsibility of Metropolitan.

#### **Additional Benefits**

- 22. Metropolitan can borrow up to 40,000 AF of stored water from WSIP consistent with the IEUA/CWC agreement. This benefit is intended to provide flexibility to Metropolitan. IEUA will be made whole for direct costs resulting from such borrowing. Execution and payback of the borrowed water shall occur by the end of the agreement and be coordinated through the CBP Operating Committee.
- 23. Predelivery of water against future performance requirements will be allowed by mutual agreement and coordinated/administered by the CBP Operating Committee. In-lieu vs pump in strategies will be determined by CBP Operating Committee.

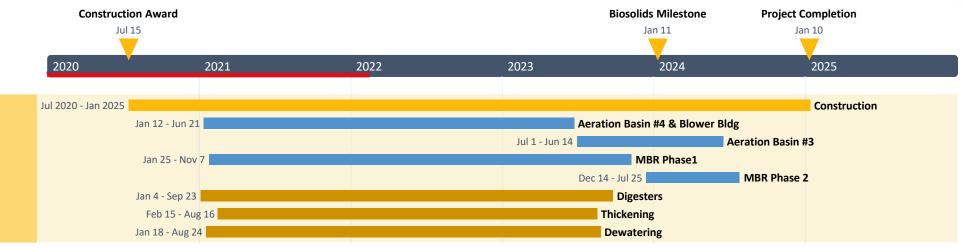
# INFORMATION ITEM 3A







Day 654 of 1640 = 40%



Role	Firm	Contract	This Month's Payment	Total Paid	% Complete
Contractor	WM Lyles	\$332,982,900	\$9,327,924	\$132,943,490	40%
Designer	Parsons	\$33,670,711	\$344,023	\$29,934,835	89%
Construction Management	Arcadis	\$21,125,523	\$407,650	\$7,697,737	36%

Data date: 4/30/2022

### **RP-5: Major Activity Areas**



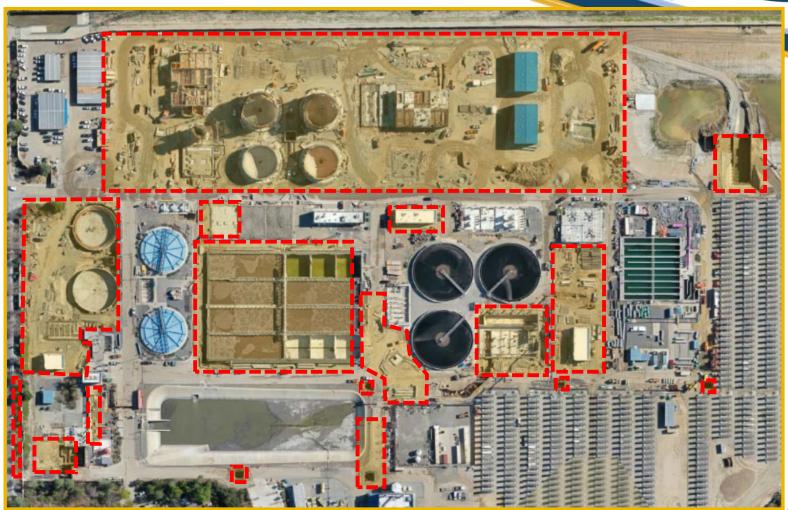
#### **Construction Staff**

• WML Craft: 211

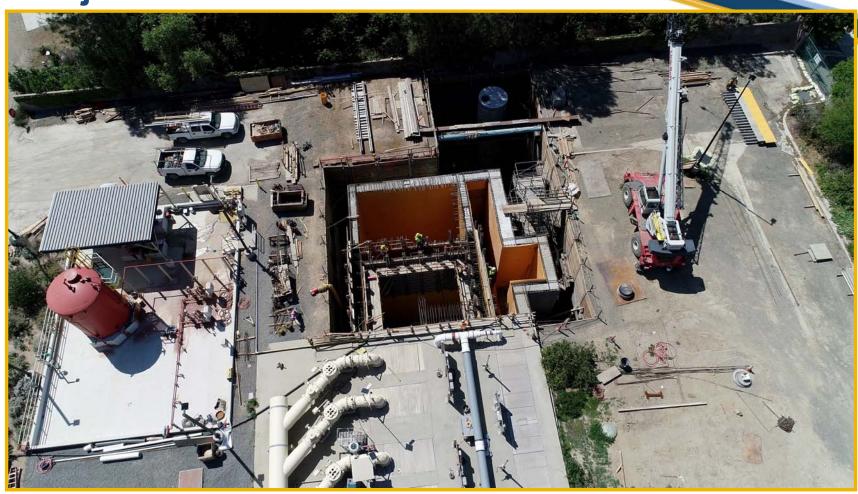
• WML Project: 33

• IEUA & CM: 15

• Total: 259







**Influent Pump Station** 

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT





**Fine Screens** 





**Primary Clarifiers** 





**Aeration Basin** 





**Blower Building #2** 





**Blower Building #2** 





Membrane Bioreactor (MBR) Phase 1









**MBR Return Activated Sludge Pumps** 









**Thickening Building** 









**Acid Phase Digester & Building** 





**Gas Phase Digesters** 











**Gas Phase Digesters** 

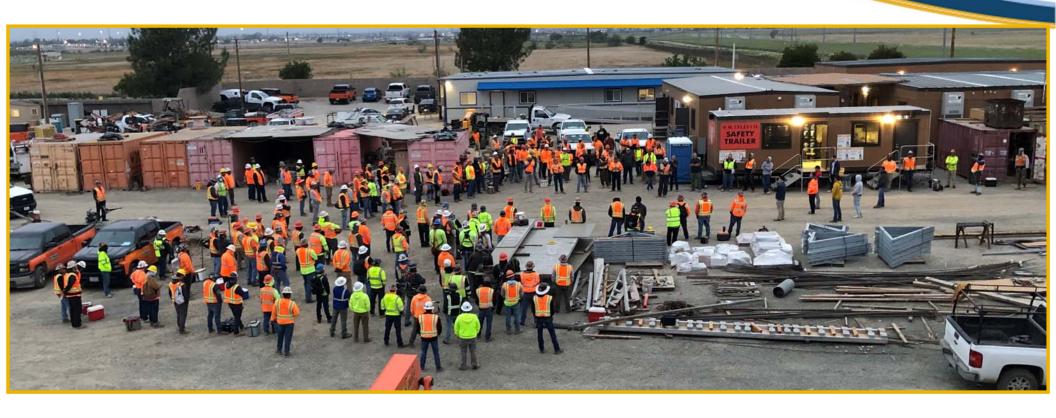




**Dewatering Building** 



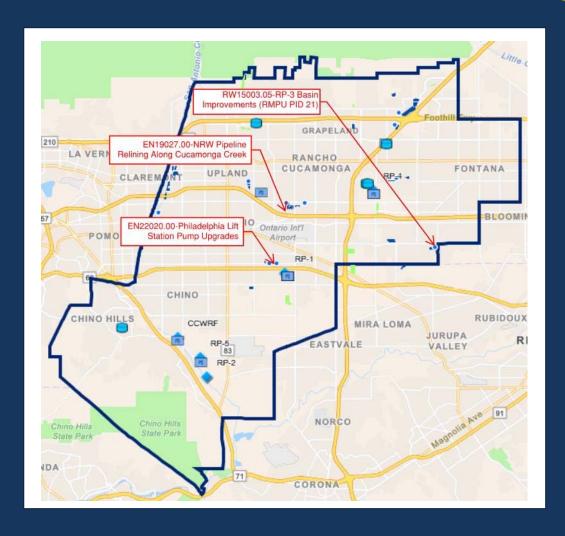






# INFORMATION ITEM 3B

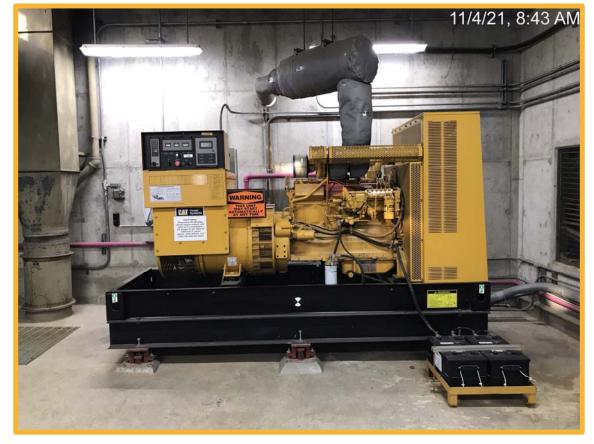




## Project Location Map

#### **Philadelphia Lift Station Pump Upgrades**

Project Goal: Rehabilitate/Repair Existing Assets



**Existing Generator** 



Total Project Budget: \$2.5M

Project Completion: January 2025

Design Percent Complete: 10%

Phase	Consultant/ Contractor	Current Contract	Amendments/ Change Orders	
Design (Current)	Stantec Consulting, Inc.	\$287k	0%	
Construction	TBD	<b>\$0</b>	0%	
Project Management Team				
Project Manager: Biesiada, Josh			sh	

Project Manager:	Biesiada, Josh
Assistant/Associate Engineer:	Trott, Megan
Administrative Assistant:	Wallace & Associates
Inspector:	TBD

#### **RP-3 Basin Improvements**

Project Goal: Increase Storm and Recycled Water Recharge



Total Project Budget: \$1.8M
Project Completion: June 2022
Construction Percent Complete: 75%

Phase	Consultant/ Contractor	Current Contract	Amendments/ Change Orders	
Design	Carollo	\$137k	21%	
Construction (Current)	Metro Builders/James McMinn, Inc.	\$750k	10.65%	
Project Management Team				
Pı	oject Manager:	Ignacio, Joel		
Assistant/Associate Engineer:		Wood & Associates		
Administrative Assistant:		GK & Associates		
Inspector:		Jones, Nick		



**Butterfly Valve** 

### NRW Pipeline Relining Along Cucamonga Creek

Inland Empire Utilities Agency

A MUNICIPAL WATER DISTRICT

Project Goal: Extend Asset Life



Total Project Budget: \$2.3M
Project Completion: June 2022
Construction Percent Complete: 95%

Consultant/ Current Amendments/

Phase	Contractor	Contract	Change Orders	
Design	Michael Baker International	\$127k	305%	
Construction (Current) Charles King Company		\$1.4M	-0.35%	
Project Management Team				
Project Manager:		Zughbi, Jamal		
Assistant/Associate Engineer:		Ferrer, Karen		
Administrative Assistant:		Wood Consulting		
Inspector:		GK & Associates		