



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

**WEDNESDAY, MAY 12, 2021
10:00 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 BE 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.

*A Municipal Water District

1. **CONSENT ITEMS**

A. **MINUTES**

Approve Minutes of the April 14, 2021 Engineering, Operations, and Water Resources Committee meeting.

B. **BIOSOLIDS TRANSPORTATION SERVICES CONTRACT**

Staff recommends that the Committee/Board:

1. Approve a three-year contract with two one-year renewal options with Denali Water Solutions, LLC for biosolids transportation and recycling services for approximately \$510,000 per year (renewals to be adjusted annually using the Consumer Price Index) not to exceed \$2,750,000 for five years; and
2. Authorize the General Manager to execute the contract.

C. **RP-3 BASIN IMPROVEMENTS – DIVERSION CONSTRUCTION CONTRACT AWARD**

Staff recommends that the Committee/Board:

1. Award a construction contract for the RP-3 Basin Improvement – New Diversion Structure, Project No. RW15003.05, to Metro Builders & Engineers Group, Ltd., in the amount of \$634,881; and
2. Authorize the General Manager to execute the construction contract, subject to non-substantive changes.

2. **ACTION ITEMS**

A. **STRATEGIC PLANNING & RESOURCES MASTER SERVICES CONTRACTS AWARD**

Staff recommends that the Committee/Board:

1. Award Strategic Planning & Resources Services Master Contracts to Brown & Caldwell, CDM Smith, GEI Consultants, GHD Inc., Kennedy-Jenks, Michael K. Nunley & Associates, Trussell Technologies, and Water Systems Consulting for five-year contract terms (with two, one-year extension options) to provide as-needed Planning & Compliance consulting services;
2. Authorize the Master Contracts with aggregate not-to-exceed amount of \$3,000,000; and
3. Authorize the General Manager to approve, subject to non-substantive changes, and execute the Master Contracts.

B. WEST VALLEY WATER DISTRICT ASSISTANCE AGREEMENT

Staff recommends that the Committee/Board authorize the General Manager to execute the West Valley Water District Assistance Agreement, subject to non-substantive changes.

3. INFORMATION ITEMS

A. CONSTRUCTION INDUSTRY TRENDS (POWERPOINT)

B. RP-5 EXPANSION PROJECT UPDATE (POWERPOINT)

RECEIVE AND FILE INFORMATION ITEM

C. ENGINEERING AND CONSTRUCTION MANAGEMENT PROJECT UPDATES (POWERPOINT)

4. GENERAL MANAGER'S COMMENTS

5. COMMITTEE MEMBER COMMENTS

6. COMMITTEE MEMBER REQUESTED FUTURE AGENDA ITEMS

ADJOURN

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, May 6, 2021.



Denise Garzaro, CMC

**CONSENT
ITEM
1A**



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

**WEDNESDAY, APRIL 14, 2021
10:00 A.M.**

COMMITTEE MEMBERS PRESENT via Video/Teleconference

Marco Tule, Chair
Jasmin A. Hall

STAFF PRESENT

Shivaji Deshmukh, General Manager
Kathy Besser, Executive Manager of External & Government Affairs/AGM
Christina Valencia, Executive Manager of Finance & Administration/AGM
Denise Garzaro, Board Secretary/Office Manager
Daniel Solorzano, Technology Specialist I

STAFF PRESENT via Video/Teleconference

Christiana Daisy, Deputy General Manager
Randy Lee, Executive Manager of Operations/AGM
Adham Almasri, Principal Engineer
Josh Biesiada, Project Manager II
Jerry Burke, Manager of Engineering
Pietro Cambiaso, Deputy Manager of Strategic Planning & Resources
Andrea Carruthers, Manager of External Affairs
Javier Chagoyen-Lazaro, Manager of Finance & Accounting
Lucia Diaz, Deputy Manager of Maintenance
Robert Delgado, Manager of Operations
Jennifer Hy-Luk, Administrative Assistant II
Sylvie Lee, Manager of Strategic Planning & Resources
Jason Marseilles, Deputy Manager of Engineering
Cathleen Pieroni, Manager of Inter-Agency Relations
Sushmitha Reddy, Manager of Laboratories
Jeanina Romero, Executive Assistant
Travis Sprague, Principal Engineer
Wilson To, Technology Specialist II
Teresa Velarde, Manager of Internal Audit
Brian Wilson, Senior Engineer
Jeff Ziegenbein, Manager of Regional Compost Operations
Jamal Zughbi, Senior Engineer/Project Manager

OTHERS PRESENT via Video/Teleconference

None

CALL TO ORDER

Committee Chair Marco Tule called the meeting to order at 10:02 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 – 1C. CONSENT ITEMS

The Committee:

- ◆ Approved Minutes of the March 10, 2021 Engineering, Operations, and Water Resources Committee meeting.
- ◆ Recommended that the Board:
 1. Approve the award of contract No. 4600003009 to David Wheeler's Pest Control, Inc. to provide pest control services for a not-to-exceed amount of \$400,000 over five years with a fixed price for services of two years with three one-year options to extend with CPI increases; and
 2. Authorize the General Manager to execute the service contract, subject to non-substantive changes;
- ◆ and
 1. Approve the award of contract No. 4600003010 to Managed Mobile, Inc. to provide on-site mobile fleet maintenance and repair services for a not-to-exceed amount of \$375,000 over five years with a fixed price period of two years with three one-year options to extend with CPI increases; and
 2. Authorize the General Manager to execute the service contract, subject to non-substantive changes;

as Consent Calendar items on the April 21, 2021 Board meeting agenda.

2A – 2C. ACTION ITEMS

The Committee:

- ◆ Recommended that the Board:
 1. Award a construction contract for the Haven Avenue Regional Sewer System Repairs, Project No. EN20056, to Charles King Company in the amount of \$1,575,000;
 2. Approve a contract amendment to GHD Inc. for engineering services during construction for the not-to-exceed amount of \$61,149, increasing the contract from \$217,309 to \$278,458 (approximately 28%); and
 3. Authorize the General Manager to execute the construction contract and the engineering contract amendment, subject to non-substantive changes;
- ◆ and

1. Award a construction contract for the NRW Pipeline Relining Along Cucamonga Creek, Project No. EN19027, to Charles King Company, in the amount of \$1,413,000; and
2. Authorize the General Manager to execute the construction contract, subject to non-substantive changes;

◆ and

1. Approve the award of the contract No. 4600003013 to Agilent Technologies, Inc. for the purchase and installation of laboratory instrumentation and ancillary services for a total not-to-exceed amount of \$311,890.40; and
2. Authorize the General Manager to execute the contract, subject to non-substantive changes;

as Consent Calendar items on the April 21, 2021 Board meeting agenda.

3A – 3E. INFORMATION ITEMS

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

- ◆ 3rd Quarter Strategic Planning and Resources Updates
- ◆ External Supply Sources
- ◆ Operations Division Quarterly Update
- ◆ RP-5 Expansion Project Update: April 2021
- ◆ Engineering and Construction Management Project Updates

4. GENERAL MANAGER'S COMMENTS

There were no General Manager's comments.

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.

ADJOURNMENT

With no further business, Committee Chair Tule adjourned the meeting at 11:21 a.m.

Respectfully submitted,

Denise Garzaro
Board Secretary/Office Manager

*A Municipal Water District

APPROVED: MAY 12, 2021

**CONSENT
ITEM
1B**

Date: May 19, 2021

To: The Honorable Board of Directors

ADD
From: Shivaji Deshmukh, General Manager

Committee: Engineering, Operations & Water Resources

05/12/21

Executive Contact: Randy Lee, Executive Manager of Operations/AGM

Subject: Biosolids Transportation Services Contract

Executive Summary:

The Agency produces approximately 70,000 wet tons of biosolids each year as a by-product of sewage treatment. The biosolids are processed and dewatered at Regional Water Recycling Plants No. 1 and 2 and need to be transported to the Inland Empire Regional Composting Facility (compost facility) where they are recycled into compost. The Agency also uses this hauling service to transport non-compostible material that is collected during sewage collection system cleaning process. Finally, the current hauling service can also provide biosolids hauling to other disposal sites in cases of emergency at the composting facility. The Agency's current transportation service contract expires in June 2021. A Request for Proposal was issued on PlanetBids on March 9, 2021 to secure a new contractor. There were two responsive bidders: Virmoantes Express, Inc., and Denali Water Systems, LLC (Denali). The proposals were evaluated and it was determined that Denali was the lowest responsible and responsive bidder and provides the best value for the Agency at approximately 15% less than the next bidder. Denali has extensive experience hauling biosolids around the region and was a previous contractor for the Agency under the business name Solid Solutions.

Staff's Recommendation:

1. Approve a three-year contract with two one-year renewal options with Denali Water Solutions, LLC for biosolids transportation and recycling services for approximately \$510,000 per year (renewals to be adjusted annually using the Consumer Price Index) not to exceed \$2,750,000 for 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:

RP-1: 10800 151151 560000 526520

RP-2: 10800 180152 560000 526520

Fiscal Impact (explain if not budgeted):

Not Applicable

Prior Board Action:

The IEUA Board approved a contract with Viramontes Express, Inc. for biosolids transportation services for 5 years not to exceed \$3,000,000 on May 20, 2015.

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:

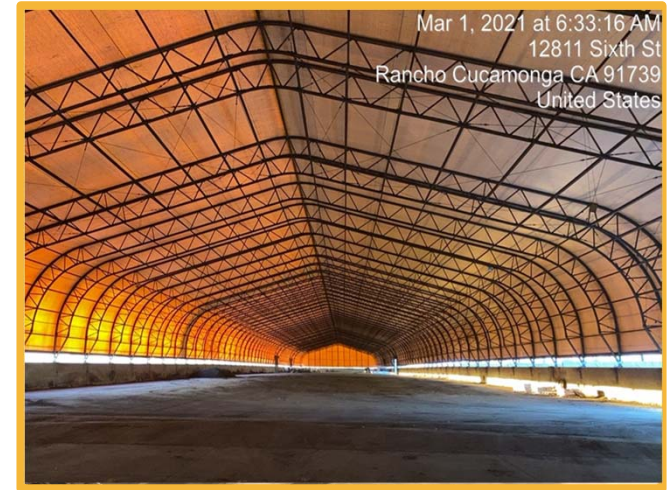
The IEUA Biosolids Transportation Services Contract is consistent with IEUA's Business Goal of Business Practices, specifically the Organics Management objective that IEUA will manage organics to meet regulatory compliance standards in a fiscally prudent and environmentally sustainable manner.

Attachments:

Attachment 1 - PowerPoint Presentation

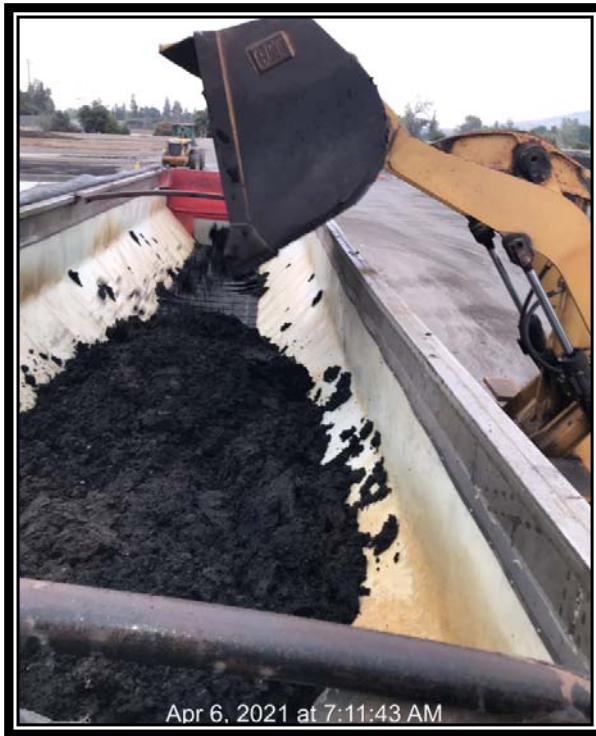
Attachment 2 - Contract

Biosolids Transportation Services



Jeff Ziegenbein
Manager of Regional Compost Authority
May 2021

Biosolids



- IEUA produces ~70,000 wet tons/year
 - 41,000 wet ton/yr from RP-1
 - 29,000 wet ton/yr from RP-2
- All biosolids hauled to IERCF



Transportation Service

- Issued RFP in March 2021
 - Haul biosolids to IERCF
 - Haul non-compostable material from sewage collection system to landfill
 - Back up destination as needed
- 2 bids:
 - Viramontes (current hauler)
 - Denali Water Solutions, LLC
- Lowest bidder:
 - Denali Water Solution, LLC



Denali Water Solutions

- Large residual management company across US
- Provide similar services to several wastewater treatment plants in region
 - Back up resources



Recommendation

1. Approve a three-year contract with two one-year renewal options with Denali Water Solutions, LLC for biosolids transportation and recycling services for approximately \$510,000 per year (renewals to be adjusted annually using the Consumer Price Index) not to exceed \$2,750,000 for five years; and
2. Authorize the General Manager to execute the contract.

The IEUA Biosolids Transportations Services Contract is consistent with the IEUA Business Goal of Business Practices, specifically the Organics Management objective that IEUA will manage organics to meet regulatory compliance standards in a fiscally prudent and environmentally sustainable manner.

**CONSENT
ITEM
1C**

Date: May 19, 2021

To: The Honorable Board of Directors

From: Shivaji Deshmukh, General Manager

Committee: Engineering, Operations & Water Resources

05/12/21

Executive Contact: Christiana Daisy, Deputy General Manager

Subject: RP-3 Basin Improvements - Diversion Construction Contract Award

Executive Summary:

The RP-3 Basin Improvement, Project No. RW15003.05, is a part of the Recharge Master Plan Update (RMPU) Projects which is a collaborative basin improvement project with the Chino Basin Watermaster. When fully completed, the RMPU projects will enhance the recharge efforts at the RP-3 Basin by adding nearly 2,921 acre-feet of storm water and 2,905 acre-feet of recycled water for groundwater recharge. The RP-3 Improvement consists of three construction efforts: demolition of abandoned structures, excavation of a new recharge basin, and construction of the new diversion structures. The demolition and excavation efforts were completed by James McMinn, Inc. in early 2020. The remaining basin improvement in RP-3 is the installation of the new diversion structure with new electrical and control systems. This will link the new recharge basin to storm water and recycled water flows for groundwater recharge.

On April 13, 2021, four bids were received. where Atom Engineering Construction, Inc., was the initial lowest apparent bidder with a bid price of \$427,398. On April 21, Atom withdrew its bid due to a numerical error in its cost. The next lowest and responsive bidder is Metro Builders & Engineers Group, Ltd., with a bid price of \$634,881 which is above the engineer's estimate of \$525,000.

Staff's Recommendation:

1. Award a construction contract for the RP-3 Basin Improvement - New Diversion Structure, Project No. RW15003.05, to Metro Builders & Engineers Group, Ltd., in the amount of \$634,881; and
2. Authorize the General Manager to execute the construction contract, subject to non-substantive changes.

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

Account/Project Name:

RW15003.05/RP-3 Basin Improvements

Fiscal Impact (explain if not budgeted):

None. Costs are equally shared with Chino Basin Watermaster. The budget of the RMPU Projects for Wineville, Jurupa, and RP-3 Basins also are supported by nearly \$8.4 million in federal and state grants: \$300 K from US Bureau of Reclamation and \$8.1 million from State Water Resources Control Board.

Prior Board Action:

On June 20, 2018, the Board of Directors approved two construction contracts, demolition and excavation work within RP-3, as part of the RMPU Projects, Project No. RW15003.05 to James McMinn, Inc. in the total amount of \$677,805.

On June 21, 2017, the Board of Directors awarded consulting engineering services for all RMPU projects under RW15003.00, to Carollo for the not-to-exceed amount of \$1,510,628.

Environmental Determination:

Program Environmental Impact Report (Finding of Consistency)

The RP-3 Basin Improvement Project was under a comprehensive Program Environmental Impact Report which the Board adopted as complete on March 15, 2017. Within this report specific mitigation measures are a part of the Project that will be implemented under the attached Mitigation Measures and Reporting Program (MMRP).

Business Goal:

The projects under the 2013 RMPU which include the RP-3 Basin Improvements Project are consistent with the IEUA's Business Goal of Water Reliability, specifically the Groundwater Recharge objective that IEUA will maximize groundwater recharge projects in the region through strategic, cost-effective partnerships, and development.

Attachments:

Attachment 1 - PowerPoint

Attachment 2 - RP-3 Mitigation Measures and Reporting Program (MMRP)

Attachment 3 - Construction Contract ([Click to Download](#))

Attachment 1

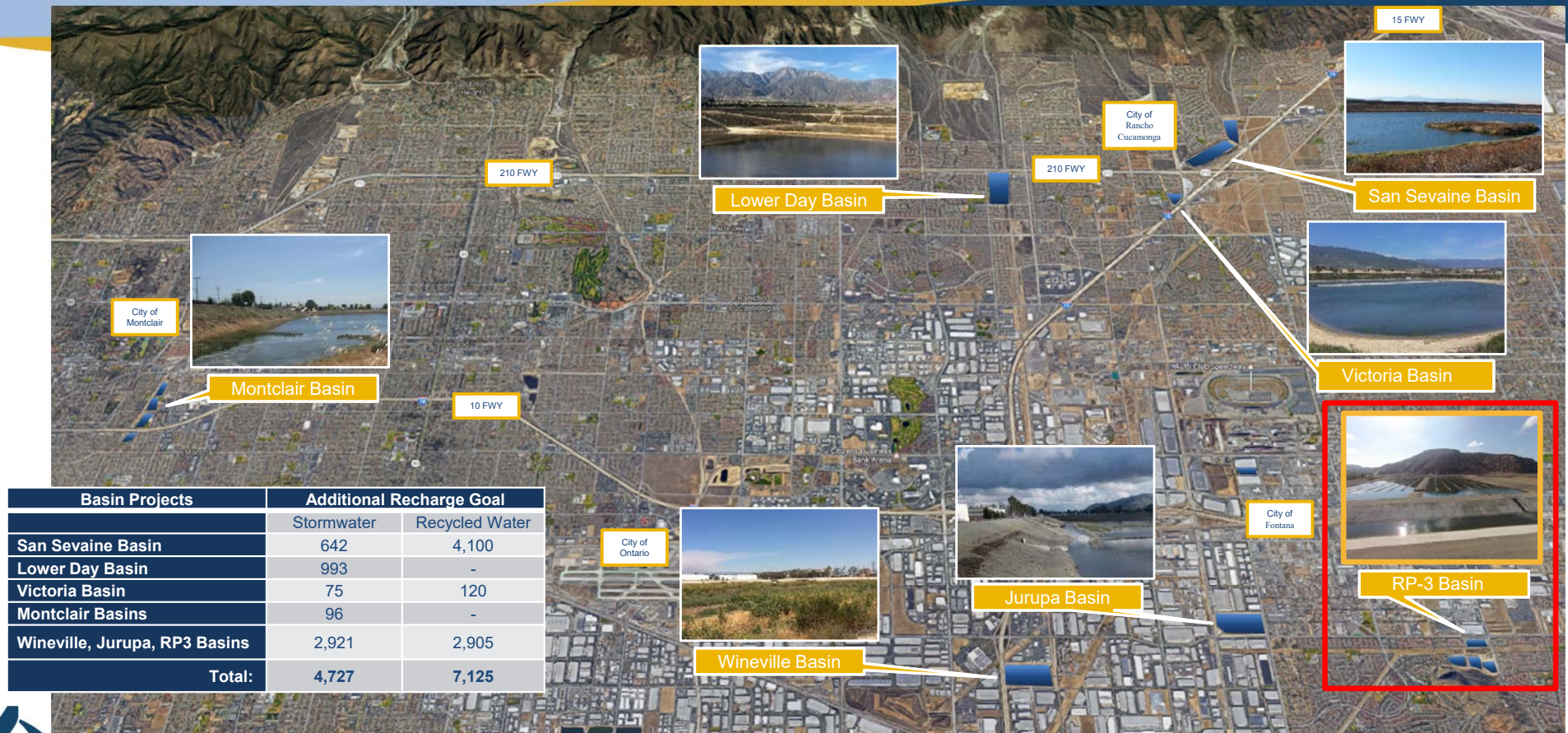
RP-3 Recharge Master Plan Update Projects

Construction Contract Award

Project No. RW15003.05



Recharge Master Plan Update (RMPU) – Projects/Goal



RP-3 Basin Improvements – Demolition (Completed)

- Agency owned recharge facility (decommissioned treatment plant)
- Four recharge basins added in 2006
- Demolish remaining five structures
- Purpose: prepare site for excavation



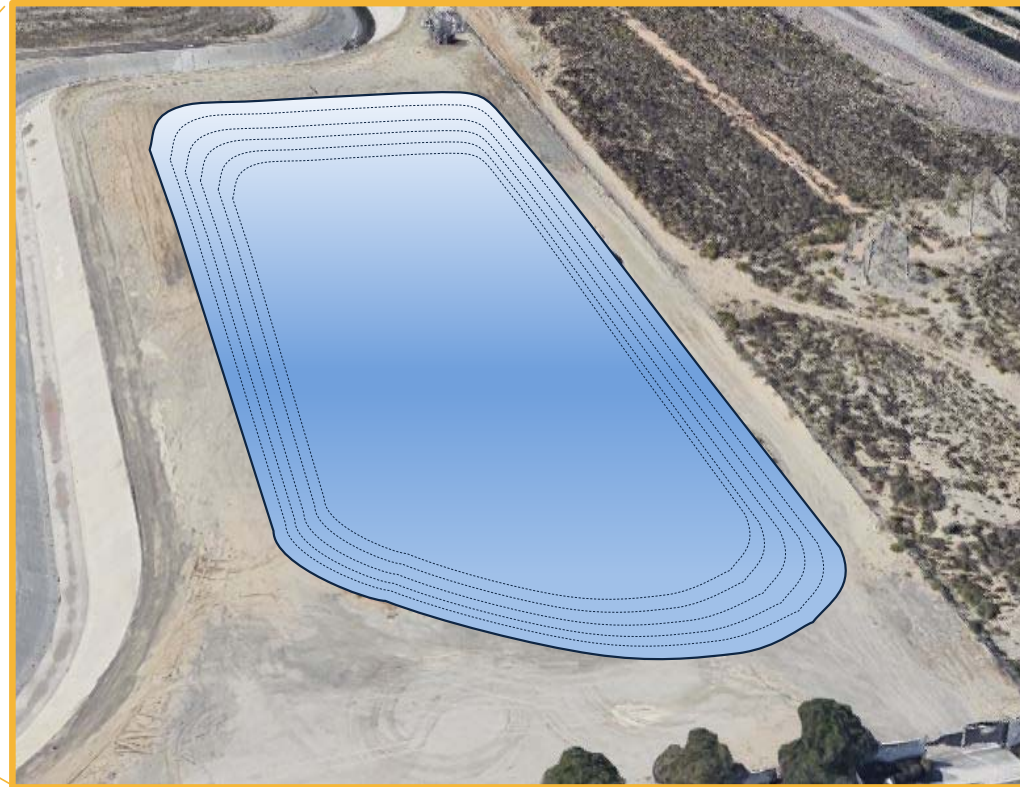
Aerial of RP-3 Recharge Basins



Aerial of Remaining Abandoned Structures

RP-3 Basin Improvements – Excavation (Completed)

- Excavate a new basin
- Remove 76,000 cubic yards of soil
- Create additional recharge area



Sketch of Completed New Basin Over Abandoned Structures

RP-3 Basin Improvements – New Diversion Structure

- Install new diversion structure
- Connects to existing stormwater pipe
- Place new electrical and control wires
- Purpose: finalize site for receiving additional SW and RW for groundwater recharge



Sketch of Completed New Basin Over Abandoned Structures

Contractor Selection

- Solicited through pre-qualified contractors on February 17, 2021
- Four bids received on April 13, 2021:

Proposals Received

Bidder's Name	Total
Atom Engineering Construction, Inc.	\$427,398
Metro Builders & Engineers Group, Ltd.	\$634,881
Ferreira Construction Co. Inc.	\$964,836
Genesis Construction	\$1,145,227
Engineer's Estimate	\$525,000

- On April 21, 2021, Atom Engineering requested to withdraw low bid due to clerical error
- Lower Responsive Bidder is Metro Builders & Engineers Group, LTD.

Project Budget and Schedule

Description	Estimated Cost
Design Services	\$171,000
IEUA Design and Pre-Design Services (actual cost)	\$171,000
Construction Services	\$199,952
IEUA Construction Services (actual cost)	\$154,952
IEUA Construction Services (continued)	\$45,000
Construction	\$1,448,348
Demolition Contract (completed)	\$121,970
Excavation Contract (completed)	\$628,009
Diversion/Control (this contract)	\$634,881
Contingency (10%)	\$63,488
Total Project Cost for RW15003.05 (RP3 Basin):	\$1,819,300
Total Project Budget for RW15003.05 & RW15003.06*:	\$16,482,900

Project Milestone	Date
Construction	
Demolition	Completed
Excavation	Completed
Diversion/Control	Dec. 2021

* Project supported by \$8.4 million in federal and state grants (\$300,000 from US Bureau of Reclamation and \$8.1 million from State Water Resources Control Board).

Recommendation

- Award a construction contract for the RP-3 Basin Improvements (Diversion and Controls), Project No. RW15003.05, to Metro Builders & Engineers Group, Ltd. in the amount of \$634,881; and
- Authorize the General Manager to execute the construction contract, subject to non-substantive changes.

The RP-3 Basin Improvements Project is consistent with the **IEUA's Business Goal of Water Reliability** specifically the Groundwater Recharge objective that IEUA will maximize groundwater recharge projects in the region through strategic, cost-effective partnerships, and development.

Attachment 2

**RP-3 BASIN IMPROVEMENT
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE IEUA FMP PROGRAM EIR**

Mitigation Measures	Implementation, Monitoring, and Reporting Action	Responsibility	Monitoring Schedule
Aesthetics			
AES-2: All new permanent exterior lighting associated with proposed project components shall be shielded and directed downward to avoid any light intrusion to surrounding uses. The maximum light allowed beyond the property boundary adjacent to sensitive light receptors shall be limited to 1.5 candles.	<ul style="list-style-type: none"> • Include mitigation measure in project design specifications. • Ensure design specifications are included in construction contractor specifications. • Retain copies of design and contractor specifications in project files. • Perform site inspections to verify contractor compliance. Retain inspection records in the project file. 	Construction Contractor	Before, During and After Construction
AES-3: Development of the proposed project and associated facilities shall comply with existing and future lighting ordinances.	<ul style="list-style-type: none"> • Include mitigation measure in project design specifications. • Ensure design specifications are included in construction contractor specifications. • Retain copies of design and contractor specifications in project files. • Perform site inspections to verify contractor compliance. Retain inspection records in the project file. 	Construction Contractor	Before, During and After Construction

Mitigation Measures	Implementation, Monitoring, and Reporting Action	Responsibility	Monitoring Schedule
Agriculture and Forestry Resources			
Air Quality and Greenhouse Gas Emissions			
<p>AQ-1: The following measures shall be incorporated to minimize emissions of NOx and VOC associated with construction activities for the proposed facilities:</p> <ul style="list-style-type: none"> Construction activities shall require the use of 2010 and newer diesel haul trucks (e.g., material delivery trucks and soil import/export) to the extent feasible. Under conditions where it is determined that 2010 model year or newer diesel trucks are not readily available or obtainable for a project, the implementing party shall be required to provide this evidence to IEUA and shall instead use trucks that meet USEPA 2007 model year NOx emissions requirements. Off-road diesel-powered construction equipment greater than 50 horsepower shall meet Tier 3 emissions standards at a minimum and Tier 4 where available. Under conditions where it is determined that equipment meeting Tier 4 emission standards are not readily available or obtainable for a project, the implementing party shall be required to provide this evidence to IEUA and shall instead use USEPA Tier 3 equipment. 	<ul style="list-style-type: none"> Include mitigation measure in construction contractor specifications. Retain copies of contractor specifications in project files. Perform site inspections to verify contractor compliance. Retain inspection records in the project file. 	Construction Contractor	Before and During Construction
<p>AQ-2: For each individual FMP project, IEUA shall require by contract specifications that:</p> <ul style="list-style-type: none"> Construction-related equipment, including heavy-duty equipment, motor vehicles, and portable equipment, shall be turned off when not in use to avoid excessive idling. Construction operations shall minimize use of diesel-powered generators and rely on the electricity infrastructure where feasible. Construction trucks shall be routed away from congested streets or sensitive receptor areas where feasible. 	<ul style="list-style-type: none"> Include mitigation measure in construction contractor specifications. Retain copies of contractor specifications in project files. Perform site inspections to verify contractor compliance. Retain inspection records in the project file. 	Construction Contractor	Before and During Construction
Mitigation Measures	Implementation, Monitoring, and Reporting Action	Responsibility	Monitoring Schedule
<p>AQ-3: Unpaved roads on the project site used for any vehicular travel are required to be watered by water trucks at least four times per eight hour workday or otherwise sufficient to reduce fugitive dust (PM10 and PM2.5) emissions consistent with Rule 403.</p>	<ul style="list-style-type: none"> Include mitigation measure in construction contractor specifications. Retain copies of contractor specifications in project files. Perform site inspections to verify contractor compliance. Retain inspection records in the project file. 	Construction Contractor	Before and During Construction

Biological Resources

<p>BIO-3a: Prior to the start of construction of facilities, focused burrowing owl surveys shall be conducted to determine the presence/absence of burrowing owl adjacent to the project area. The focused burrowing owl survey must be conducted by a qualified biologist and following the survey guidelines included in the CDFW Staff Report on Burrowing Owl Mitigation (2012). If burrowing owl is observed within undeveloped habitat within or immediately adjacent to the project impact area, avoidance/minimization measures would be required such as establishing a suitable buffer around the nest (typically 500-feet) and monitoring during construction, or delaying construction until after the nest is no longer active and the burrowing owls have left. However, if burrowing owl avoidance is infeasible, a qualified biologist shall implement a passive relocation program in accordance with the <i>Example Components for Burrowing Owl Artificial Burrow and Exclusion Plans</i> of the CDFW 2012 Staff Report on Burrowing Owl Mitigation (CDFW, 2012).</p>	<ul style="list-style-type: none"> • Include mitigation measure in construction contractor specifications. • Retain copies of the Burrowing Owl survey reports in the project file. • Prepare reports to document any passive relocation program, and retain such reports in the project file. 	Construction Contractor	Before Construction
<p>BIO-4: The proposed improvement projects within the IEUA Service Area shall avoid, if possible, construction within the general nesting season of February 1 through August 31 for avian species protected under Fish and Game Code 3500 and the Migratory Bird Treaty Act (MBTA), if it is determined that suitable nesting habitat occurs on a project site. If construction cannot avoid the nesting season, a pre-construction clearance survey must be conducted to determine if any nesting birds or nesting activity is observed on or within 500-feet of a project site. If an active nest is observed during the survey, a biological monitor must be on site to ensure that no proposed project activities would impact the active nest. A suitable buffer will be established around the active nest until the nestlings have fledged and the nest is no longer active. Project activities may continue in the vicinity of the nest only at the discretion of the biological monitor.</p>	<ul style="list-style-type: none"> • Include mitigation measure in construction contractor specifications. • A qualified biologist will conduct pre-construction clearance survey as defined. • Prepare documentation to record results of the pre-construction survey. • Retain copies of pre-construction survey documentation in the project file. 	Construction Contractor	Before and During Construction

Mitigation Measures	Implementation, Monitoring, and Reporting Action	Responsibility	Monitoring Schedule
<p>BIO-6: Best Management Practices (BMPs) shall be incorporated into the design and construction phase of the project to ensure that no pollutants or silt drain into a federal or state protected jurisdiction area, including wetlands and riparian areas. Project design features (BMPs) to fulfill this mitigation requirement shall be clearly identified as part of project engineering plans prior to initiating construction.</p>	<ul style="list-style-type: none"> • Include mitigation measure in project design specifications. • Ensure BMPs are included in construction contractor specifications. • Retain copies of design and contractor specifications in project files. • Perform site inspections to verify contractor compliance. Retain inspection records in the project file. 	Construction Contractor	Before and During Construction
Hydrology and Water Quality			
<p>HYDRO-3: Implementation of a Grading and Drainage Plan. Prior to construction of project facilities, the IEUA shall prepare a grading and drainage plan that identifies anticipated changes in flow that would occur on site and minimizes any potential increases in discharge, erosion, or sedimentation potential in accordance with applicable regulations and requirements for the County of San Bernardino and/or the city in which the facility would be located. In addition, all new drainage facilities shall be designed in accordance with standards and regulations. The plan shall identify and implement retention basins, best management practices, and other measures to ensure that potential increases in storm water flows and erosion would be minimized, in accordance with local requirements.</p>	<ul style="list-style-type: none"> • Include mitigation measure in construction contractor specifications. • Prepare grading and drainage plan under applicable County/City regulations and requirements • Retain copies of the plan and records verifying implementation of the plan in the project file. 	Construction Contractor	Before and During Construction

Mitigation Measures	Implementation, Monitoring, and Reporting Action	Responsibility	Monitoring Schedule
Noise			
<p>NOISE-1: IEUA shall implement the following measures during construction:</p> <ul style="list-style-type: none"> • Include design measures where feasible to reduce the construction noise levels if necessary to comply with local noise ordinances. These measures may include, but are not limited to, the erection of noise barriers/curtains, use of advanced or state-of-the-art mufflers on construction equipment, and/or reduction in the amount of equipment that would operate concurrently at the construction site. • Place noise and groundborne vibration-generating construction activities whose specific location on a construction site may be flexible (e.g., operation of compressors and generators, cement mixing, general truck idling) as far as possible from the nearest noise- and vibration-sensitive land uses such as residences, schools, and hospitals. • Minimize the effects of equipment with the greatest peak noise generation potential via shrouding or shielding to the extent feasible. Examples include the use of drills, pavement breakers, and jackhammers. • Locate stationary construction noise sources as far from adjacent noise-sensitive receptors as possible, and require that these noise sources be muffled and enclosed within temporary sheds, insulation barriers if necessary to comply with local noise ordinances.. • Provide noise shielding and muffling devices on construction equipment per the manufacturer's specifications. • If construction is to occur near a school, the construction contractor shall coordinate the with school administration in order to limit disturbance to the campus. Efforts to limit construction activities to non-school days shall be encouraged. • For major construction projects, identify a liaison for surrounding residents and property owners to contact with concerns regarding construction noise and vibration. The liaison's telephone number(s) shall be prominently displayed at construction locations. • For major construction projects, notify in writing all landowners and occupants of properties adjacent to the construction area of the anticipated construction schedule at least two weeks prior to groundbreaking. 	<ul style="list-style-type: none"> • Include mitigation measure in construction contractor specifications. • Appoint a construction monitor to verify contractor compliance with noise measures. • Retain copies of monitoring records in the project file. • Appoint a Noise Concern Coordinator to respond to construction noise complaints. • Maintain log of concerns filed with the Coordinator and the resolution of each complaint. • Retain copies of the notification and concern log in the project file • Retain copies of notifications to all landowners and occupants of properties 	Construction Contractor	Before and During Construction
<p>NOISE-2: IEUA shall require that all FMP-related aboveground facilities that include stationary noise generating equipment (such as emergency generators, blowers, pumps, motors, etc.) minimize their audible noise levels by locating equipment away from noise-sensitive receptor areas, installing proper acoustical shielding for the equipment, and incorporating the use of parapets into building design to meet the applicable city or county noise level requirements at neighboring property lines.</p>	<ul style="list-style-type: none"> • Include mitigation measure in project design specifications. • Include mitigation measure in construction contractor specifications. • Perform construction site inspections to ensure compliance with noise ordinances. • Retain copies of site inspection logs or reports in project files. 	Construction Contractor	During Construction

Mitigation Measures	Implementation, Monitoring, and Reporting Action	Responsibility	Monitoring Schedule
NOISE-4: Prior to commencement of construction related to the FMP programs at a specific site that will endure for more than a few days and that are not emergency projects, IEUA will notify property owners within 300 feet regarding the scope and duration of work a minimum of 10 days prior to the start of such activity.	<ul style="list-style-type: none"> • Include mitigation measure in construction contractor specifications. • Initiate correspondence with property owners • Retain copies of the correspondence in the project file. 	Construction Contractor	Before Construction
NOISE-5: IEUA shall require the construction contractor(s) to implement the following measure: <ul style="list-style-type: none"> • Ensure that the operation of construction equipment that generates high levels of vibration including, but not limited to, large bulldozers, loaded trucks, pile-drivers, vibratory compactors, and drilling rigs, is minimized within 45 feet of existing residential structures and 35 feet of institutional structures (e.g., schools) during construction of the various FMP projects. Use of small rubber-tired bulldozers shall be encouraged within these areas during grading operations to reduce vibration effects. 	<ul style="list-style-type: none"> • Include mitigation measure in construction contractor specifications. • Retain copies of contractor specifications in project files. • Perform site inspections to verify contractor compliance. Retain inspection records in the project file. 	Construction Contractor	During Construction
Traffic and Transportation			
TT-1: For projects that may affect traffic flow along existing roadways, IEUA shall require that contractors prepare a construction traffic control plan. Elements of the plan should include, but are not necessarily limited to, the following: <ul style="list-style-type: none"> • Develop circulation and detour plans if necessary to minimize impacts to local street circulation. Use haul routes minimizing truck traffic on local roadways to the extent possible. • To the extent feasible, and as needed to avoid adverse impacts on traffic flow, schedule truck trips outside of peak morning and evening commute hours. • Install traffic control devices as specified in Caltrans' Manual of Traffic Controls for Construction and Maintenance Work Zones where needed to maintain safe driving conditions. Use flaggers and/or signage to safely direct traffic through construction work zones. • For roadways requiring lane closures that would result in a single open lane, maintain alternate one-way traffic flow and utilize flagger-controls. • Coordinate with facility owners or administrators of sensitive land uses such as police and fire stations, hospitals, and schools. Provide advance notification to the facility owner or operator of the timing, location, and duration of construction activities. 	<ul style="list-style-type: none"> • Include mitigation measure in construction contractor specifications. • Retain copy of Plan in the project file, including correspondence documenting approval of the Plan by the applicable local jurisdiction(s). • Perform site inspections to verify compliance with the Plan. • Retain copies of monitoring records in the project file. 	Construction Contractor	Before and During Construction
Utilities			
U-1: Implementation of a Drainage Plan to Reduce Downstream Flows. Prior to construction of project facilities, the IEUA shall prepare a drainage plan that includes design features to reduce stormwater peak concentration flows exiting the above ground facility sites so that the capacities of the existing downstream drainage facilities are not exceeded. These design features could include bio-retention, sand infiltration, return of stormwater for treatment within the treatment plant, and/or detention facilities.	<ul style="list-style-type: none"> • Include mitigation measure in project design specifications. • Ensure design specifications are included in construction contractor specifications. • Retain copy of Drainage Plan in the project file • Perform site inspections to verify compliance with the Plan. • Retain copies of design and contractor specifications in project files. 	Construction Contractor	Before and During Construction

ACTION
ITEM
2A

Date: May 19, 2021

To: The Honorable Board of Directors

From: Shivaji Deshmukh, General Manager

Committee: Engineering, Operations & Water Resources

05/12/21

Finance & Administration

05/12/21

Executive Contact: Christiana Daisy, Deputy General Manager

Subject: Strategic Planning & Resources Master Services Contracts Award

Executive Summary:

On December 8, 2020, the Agency solicited proposals for as-needed Strategic Planning & Resources consulting services in support of various programs, planning efforts, modeling, regulatory requirements, and overall project support and resource management.

On February 9, 2021, the Agency received 18 proposals, with nine firms invited for virtual interviews. The Technical Evaluation Committee consisted of nine members, including staff from IEUA's Strategic Planning & Resources, Asset Management, Contracts, and Grants Departments. Considering the Ten-Year Forecast and past use of consulting services contracts, the Evaluation Committee recommends establishing eight master services contracts with Brown & Caldwell, CDM Smith, GEI Consultants, GHD Inc., Kennedy-Jenks, Michael K. Nunley & Associates, Trussell Technologies, and Water Systems Consulting to provide the best value to the Agency. Staff recommends five-year Strategic Planning & Resources master services contracts, with the option of up to two, one-year extensions, and an aggregate total not-to-exceed amount of \$3,000,000 for all eight contracts.

Staff's Recommendation:

1. Award Strategic Planning & Resources Master Contracts to Brown & Caldwell, CDM Smith, GEI Consultants, GHD Inc., Kennedy-Jenks, Michael K. Nunley & Associates, Trussell Technologies, and Water Systems Consulting for five-year contract terms (with two, one-year extension options) to provide as-needed Planning & Compliance consulting services;
2. Authorize the Master Contracts with an aggregate not-to-exceed amount of \$3,000,000; and
3. Authorize the General Manager to approve, subject to non-substantive changes, and execute the Master Contracts

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

Account/Project Name:

Not applicable

Fiscal Impact (explain if not budgeted):

There will be no immediate budget impact. Task Orders, as part of these Master Contracts for as-needed services, will be developed and charged to specific capital or operations & maintenance budgets.

Prior Board Action:

None.

Environmental Determination:

Not Applicable

Business Goal:

The Planning and Compliance Consulting Master Services Contracts award is consistent with IEUA's Business Goal of Business Practices and Environmental Stewardship by ensuring ethical, cost-effective and environmentally sustainable regional planning principles, and compliance with all federal, state, and local environmental laws and regulations.

Attachments:

Attachment 1 - Presentation

Attachment 2 - Master Services Contracts

Link - <https://www.dropbox.com/sh/25i59shu1hrtl87/AADh1RB3YqPsmjKd1RQbMhyea?dl=0>

Strategic Planning & Resources Master Services Contracts Award



Background

- The Strategic Planning & Resources Department plans and implements regional projects and programs to meet current and future water/wastewater needs and regulatory requirements
 - Facilitate and develop regional water resources program
 - Develop feasibility reports, master plans, and environmental reports
 - Administers the pretreatment programs
 - Ensure facilities compliance with all local, state, and federal regulations
 - Implement energy projects and initiatives

Scope of Services

Support the various planning efforts and regulatory requirements

- Strategic Planning & Resources
 - Integrated water resources management
 - Water use efficiency programs & projects
 - Sustainability and energy management
 - Recycled water and sewer hydraulic models
 - Asset management
- Compliance and regulatory support
 - Water and wastewater treatment studies
 - Contaminant and waste source investigations
 - Remediation services
 - Stormwater services support
 - Air quality compliance support

Solicitation Process

- Request for Proposals (RFP) solicitation: December 2020 - February 2021
 - Incorporated loan/grant requirements to maximize eligibility
 - Pre-proposal meeting: 38 attendees; 20 consulting firms
 - 18 proposals received; held 9 virtual interviews
- Technical evaluation committee
 - Consisted of Strategic Planning & Resources, Contracts, Grants, and Asset Management staff

Selection Process

- Firms ranked based on ability and compliance with RFP criteria
 - Firm's history and reputation
 - Project team qualifications and past projects related experience
 - Ability to provide innovative, cost reducing solutions
 - Master contract familiarity
- Staff recommends establishing master contracts with 8 firms
 - Brown & Caldwell
 - CDM Smith
 - GEI Consultants
 - GHD Inc.
 - Kennedy-Jenks
 - Michael K. Nunley & Associates
 - Trussell Technologies
 - Water Systems Consulting

Recommendation

1. Award Strategic Planning & Resources Master Contracts to Brown & Caldwell, CDM Smith, GEI Consultants, GHD Inc., Kennedy-Jenks, Michael K. Nunley & Associates, Trussell Technologies, and Water Systems Consulting for five-year contract terms (with two, one-year extension options) to provide as-needed planning and compliance consulting services;
2. Authorize the Master Contracts with an aggregate not-to-exceed amount of \$3,000,000; and
3. Authorize the General Manager to approve, subject to non-substantive changes, and execute the Master Contracts.

*The Planning and Compliance Consulting Master Services Contracts award is consistent with IEUA's **Business Goal of Business Practices** and **Environmental Stewardship** by ensuring ethical, cost-effective and environmentally sustainable regional planning principles, and compliance with all federal, state, and local environmental laws and regulations.*

ACTION
ITEM
2B

Date: May 19, 2021

To: The Honorable Board of Directors

SSD
From: Shivaji Deshmukh, General Manager

Committee: Engineering, Operations & Water Resources

05/12/21

Executive Contact: Christiana Daisy, Deputy General Manager

Subject: West Valley Water District Assistance Agreement

Executive Summary:

In 2018, West Valley Water District (WVWD) needed supplemental water supplies as a result of one of its groundwater wells being out of service for maintenance. This groundwater supplied portions of eastern Fontana that overlapped IEUA's service area. IEUA does not have the infrastructure to supply imported water directly to WVWD; however, San Bernardino Valley Municipal Water District (Valley District) does have the infrastructure to provide the water from Metropolitan Water District (MWD). A temporary assistance agreement was executed to provide up to 800 acre-feet per year between IEUA, Valley District, MWD and WVWD. The agreement expired in December 2020.

As a result of the reliability that this agreement provided WVWD, WVWD desires to enter into an agreement that will allow up to 1,500 acre-feet per year of imported water supply during outages, emergencies, or loss of local water supply, similar to the previous agreement. The term of the agreement will be from January 2021 to December 2035. WVWD will receive imported water from MWD through Valley District and will reimburse IEUA for all payments and fees associated with the deliveries.

Staff's Recommendation:

Authorize the General Manager to execute the West Valley Water District Assistance Agreement, subject to non-substantive changes.

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

Account/Project Name:

Fiscal Impact (explain if not budgeted):

No impact. MWD will bill IEUA and WVWD will reimburse IEUA for all payments made per the agreement.

Prior Board Action:

In September 2018, the Board of Directors authorized the General Manager to execute a temporary assistance agreement among MWD, IEUA, Valley District and WVWD.

Environmental Determination:

Not Applicable

Business Goal:

The agreement 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.

Attachments:

Attachment 1 - PowerPoint

Attachment 2 - Agreement

WEST VALLEY WATER DISTRICT ASSISTANCE AGREEMENT

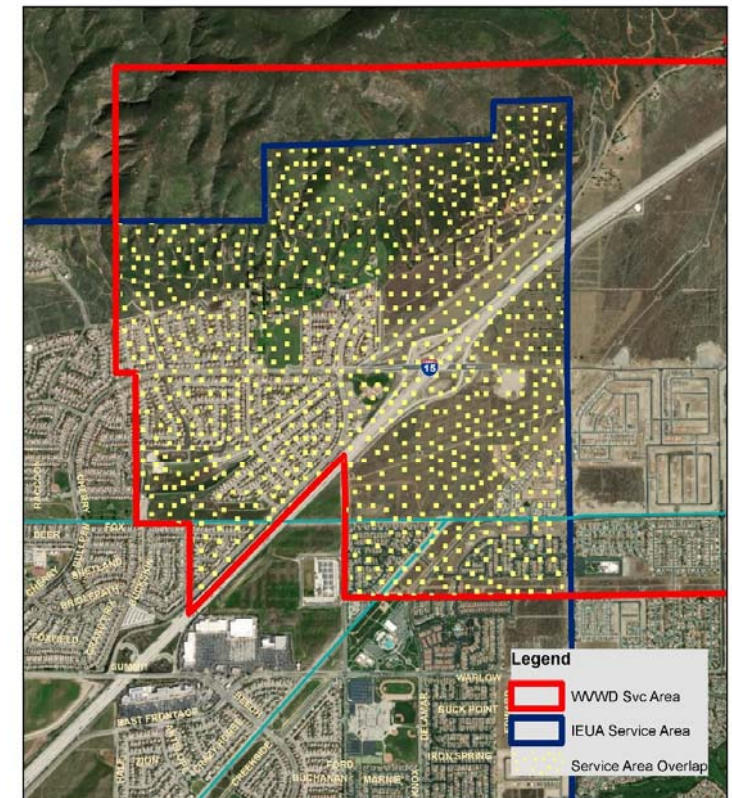


Background

- In 2018, West Valley Water District (WVWD) placed a groundwater well out of service for maintenance
- No alternative local supply to its service area located within IEUA boundary
- Requested delivery of imported water during well outage
- IEUA facilitated a temporary assistance agreement between Metropolitan Water District of Southern California (MWD), San Bernardino Valley Municipal Water District (Valley District) and WVWD with a maximum delivery of 500 acre-feet annually
- During the term, WVWD received a total of 1,385 acre-feet of imported water
- The agreement expired in December 2020

Assistance Agreement Terms

- Imported water delivery for outages, emergencies or loss of local supply
- Maximum of 1,500 acre-feet annually
- Effective from January 2021 to December 2035
- Valley District to deliver to WVWD service area located within IEUA's service area
- MWD to bill IEUA and WVWD to reimburse IEUA for all charges and fees



WWWD & IEUA Service Area Overlap

Recommendation

Authorize the General Manager to execute the West Valley Water District Assistance Agreement, subject to non-substantive changes

The agreement is consistent with 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.

AGREEMENT TO PROVIDE ASSISTANCE TO WEST VALLEY WATER DISTRICT

This Agreement to Provide Assistance to West Valley Water District (Agreement) is entered by The Metropolitan Water District of Southern California (Metropolitan), West Valley Water District (West Valley), San Bernardino Valley Municipal Water District (Valley District), and Inland Empire Utilities Agency (IEUA), collectively the “Parties.”

RECITALS

A. Metropolitan is a metropolitan water district organized under the Metropolitan Water District Act, codified at section 109-1, et seq. of West’s Appendix to the California Water Code, and is engaged in developing, storing, and distributing water in the counties of Los Angeles, Orange, Riverside, San Bernardino, San Diego, and Ventura. Metropolitan has an existing agreement with San Gabriel Valley Municipal Water District that allows for the delivery of water through the San Gabriel Valley Devil Canyon – Azusa Pipeline, of which Valley District also has 50% of capacity right up to Riverside Avenue in the City of Rialto.

B. West Valley is a County Water District, a public agency of the State of California, providing retail water to approximately 95,000 customers. West Valley’s service area overlaps five political jurisdictions: The Cities of Rialto, Fontana, Colton, and Jurupa Valley; and unincorporated areas of San Bernardino County, including the community of Bloomington.

C. Valley District is a public agency incorporated under the Municipal Water District Act of 1911 (California Water Code Section 71000 et seq., as amended) that is engaged in wholesale delivery of water in portions of the counties of San Bernardino and Riverside. Valley District is a State Water Contractor that primarily imports water into its service area through the State Water Project. Valley District has an existing connection on the San Gabriel Valley Devil Canyon – Azusa Pipeline that can also be used to deliver imported supplies from Metropolitan to a portion of West Valley’s service area that overlaps with IEUA’s service area.

D. IEUA is a Municipal Water District organized and existing pursuant to Section 71000, et seq. of the California Water Code and is authorized to secure and supply wholesale supplemental imported water to the western portion of the San Bernardino County. West Valley

is not a retail agency of IEUA but a portion of their service area is located within IEUA's service area.

E. In 2018, the Parties entered into a short-term agreement to provide up to 800 acre-feet of water per year to West Valley's customers in the eastern part of the City of Fontana that is within IEUA's service area due to a West Valley groundwater well that was temporarily taken out of service on May 24, 2018 for service and modifications. IEUA does not have infrastructure in place to deliver water to this part of its service area. Metropolitan delivered 800 acre-feet of water to Valley District and Valley District delivered that water to West Valley, on behalf of IEUA, pursuant to that agreement, which expired on December 31, 2020.

F. The Parties desire to enter into this Agreement in order to provide water to West Valley's service area in the eastern part of the City of Fontana within IEUA's service area in the event of outages, emergencies, or when there is a loss of local supply.

AGREEMENT

NOW, THEREFORE, in consideration of the foregoing recitals and the representations, warranties, covenants, and agreements contained in this Agreement and for other good and valuable consideration, the Parties hereby agree to the following terms and conditions of this Agreement.

1. Requests for Assistance. West Valley may request water deliveries during outages, emergencies, or when there is a loss of local supply. West Valley will coordinate with IEUA and Valley District on the monthly amount of imported water needed from Metropolitan. After coordinating with West Valley, IEUA will request delivery of water from Metropolitan and Valley District on behalf of West Valley.

2. Metropolitan Deliveries. To the extent there is sufficient unused capacity in the San Gabriel Valley Devil Canyon-Azusa Pipeline, Metropolitan will deliver the water to Valley District at Valley District's connection (Lytle Creek, Station, 1747+00) on the San Gabriel Valley Devil Canyon – Azusa Pipeline. The maximum amount of water that Metropolitan may deliver under this Agreement is 1,500 acre-feet per calendar year.

3. Valley District Deliveries. Valley District will deliver the water to West Valley and West Valley will provide the water to its customers within IEUA's service area.

4. Monthly Amounts. West Valley will coordinate with IEUA on the monthly amount of water requested. IEUA will provide to Metropolitan and Valley District the amounts of water delivered by 3:00 p.m. on the fifth business day after the end of the month to account for the supplies. Reconciliation of water deliveries will be allowed in subsequent monthly accounting.

5. Billing and Payment. IEUA will pay Metropolitan's rate for full service untreated water in effect at the time of the delivery of the water to Valley District's connection for use within IEUA's service area by West Valley customers. The delivery is subject to the capacity charge, readiness-to-serve charge, and all volumetric water rates in the same manner as deliveries made to IEUA through Metropolitan's distribution system and connections. Metropolitan will bill IEUA, and IEUA will pay Metropolitan, in accordance with the billing and payment provisions of Metropolitan's Administrative Code, as amended over time. West Valley will pay IEUA both IEUA and Metropolitan's fees, rates and charges as assessed by Metropolitan under this Agreement and in accordance with the provisions per IEUA Ordinance 104. Valley District shall have no responsibility for the cost of such water delivered to Valley District's connection for use within IEUA's service area by West Valley customers.

6. Department of Water Resources. Metropolitan will be responsible for any Department of Water Resources charges for the State Water Project supplies delivered to Valley District's connection under this Agreement.

7. Term. Upon execution, this Agreement is effective as of January 1, 2021 and terminates on December 31, 2035, unless cancelled in accordance with Section 8.

8. Cancellation. A Party may terminate this Agreement by providing at least 30 days written notice to all the other Parties.

9. Liability and Indemnification. Liability and indemnification shall be governed by section 4502 of Metropolitan's Administrative Code. Valley District and West Valley agree to the applicability of section 4502 of Metropolitan's Administrative Code in the same manner as that section applies to IEUA.

10. No Third-Party Rights. This Agreement is made solely for the benefit of the Parties and their respective permitted successors and assigns (if any). Except for such a permitted successor or assign, no other person or entity may have or acquire any right by virtue of this Agreement.

11. Ambiguities. Each Party and its counsel have participated fully in the drafting, review and revision of this Agreement. No rule of construction to the effect that ambiguities are to be resolved against the drafting Party shall be applied in the interpretation of this Agreement or any amendments or modifications thereof.

12. Entire Agreement. This Agreement constitutes the final, complete, and exclusive statement of the terms of the Agreement among the Parties pertaining to the subject matter and supersedes all prior and contemporaneous understandings or agreements of the Parties. No Party has been induced to enter into this Agreement by, nor is any Party relying on, any representation or warranty outside those expressly set forth in this Agreement.

13. Counterparts. This Agreement may be executed in two or more counterparts, each of which, when executed and delivered, shall be an original and all of which together shall constitute one instrument, with the same force and effect as though all signatures appeared on a single document.

[signatures on following page]

**THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA**

Jeffrey Kightlinger
General Manager

Dated

APPROVED AS TO FORM:

Marcia L. Scully
General Counsel

Dated

**SAN BERNARDINO VALLEY MUNICIPAL
WATER DISTRICT**

Heather Dyer
General Manager

Dated

APPROVED AS TO FORM:

Brendan Brandt
General Counsel

Dated

WEST VALLEY WATER DISTRICT

General Manager

Dated

APPROVED AS TO FORM:

Dated

INLAND EMPIRE UTILITIES AGENCY

Shivaji Deshmukh
General Manager

Dated

APPROVED AS TO FORM:

Jean Cihigoyenetché
Legal Counsel

Dated

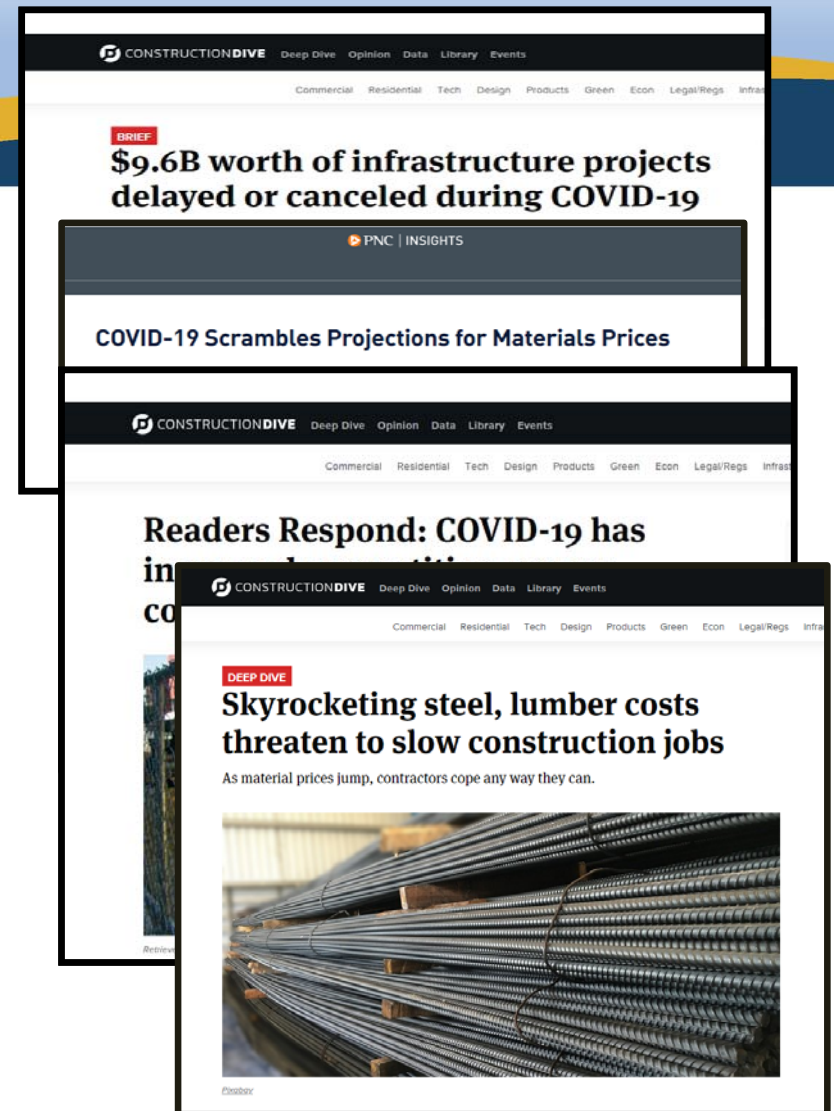
INFORMATION
ITEM
3A

Construction Industry Trends



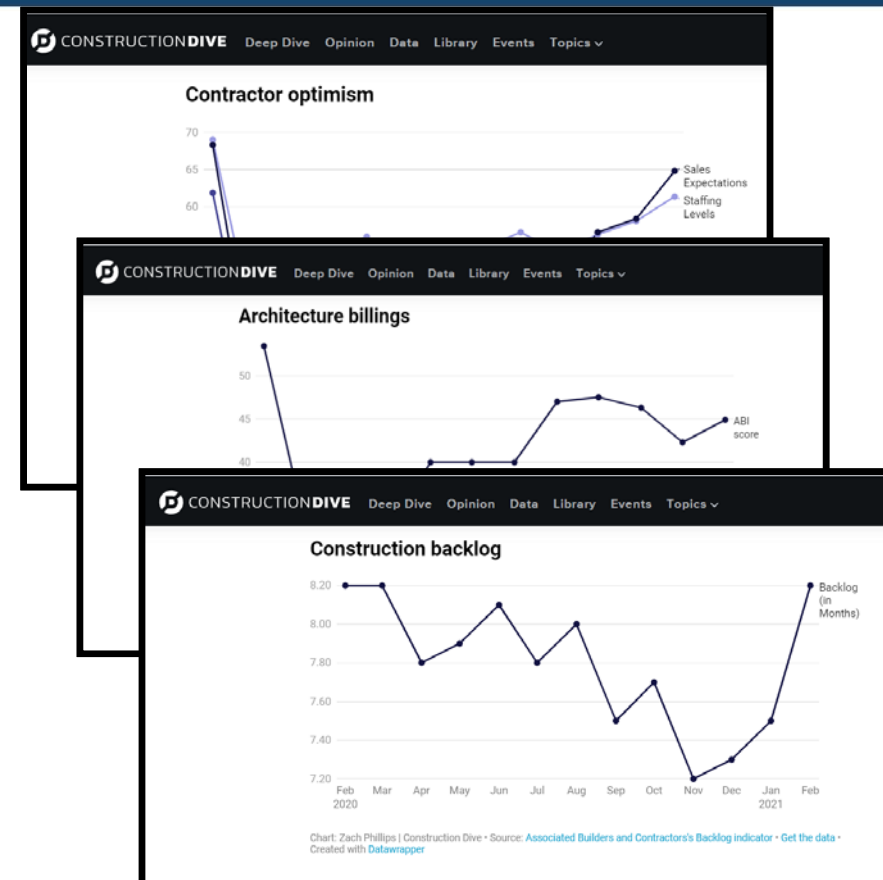
Current Construction Industry

- Covid 19 Impact
 - Uncertainty surrounding the duration and severity
 - Delayed and Cancelled Projects
- Procurement and Subcontractors vulnerable to Bankruptcy
 - Supply Chain Bottlenecks
 - Materials
 - Greater competition and diversification of contractors
 - More residential work
 - Less public works contracts



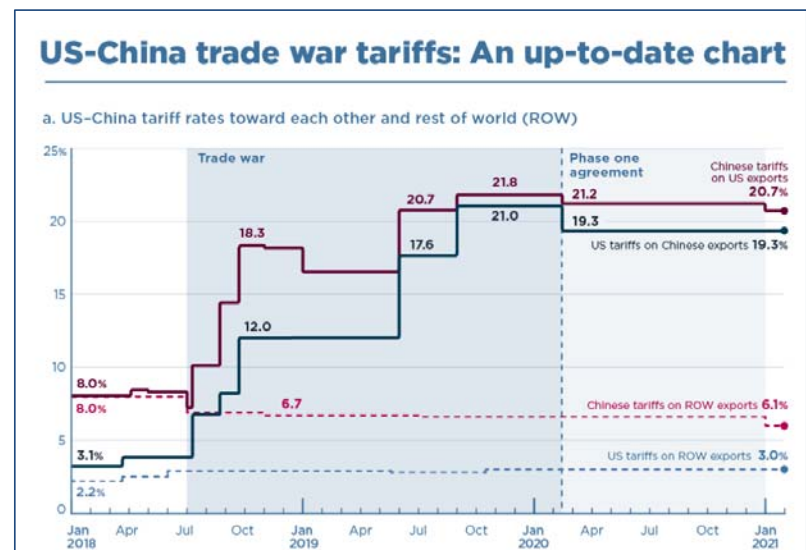
Current Construction Industry

- Consumer Confidence Improving
 - Architecture Billing Index Rebounding
 - Leading indicators of upcoming construction work. A 50+ index is good. Currently at 45 from a low of 30 in April 2020
- Construction Backlog
 - No longer fearing that backlog will dry up
 - Contractors started replenishing the backlog during first two months of 2021

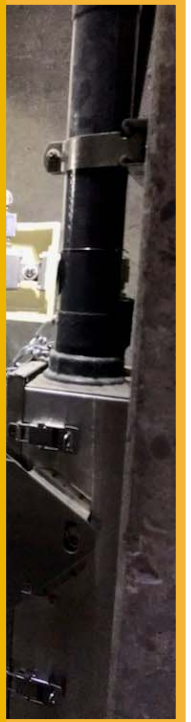


What This Means to IEUA

- Material Pricing/Delivery
 - Increasing cost
 - Steel tariffs ~ 25% announced in March 2018 Bottlenecks
- Shrinking Tax Revenue
 - Quarantine and business mandated shut-downs
 - Three stimulus packages
 - Cities and States are still feeling the impact of shrinking revenues
- Bid Pricing/Number of Bids
 - Currently within expectations
- Future Concerns
 - Project competition
 - Material competition



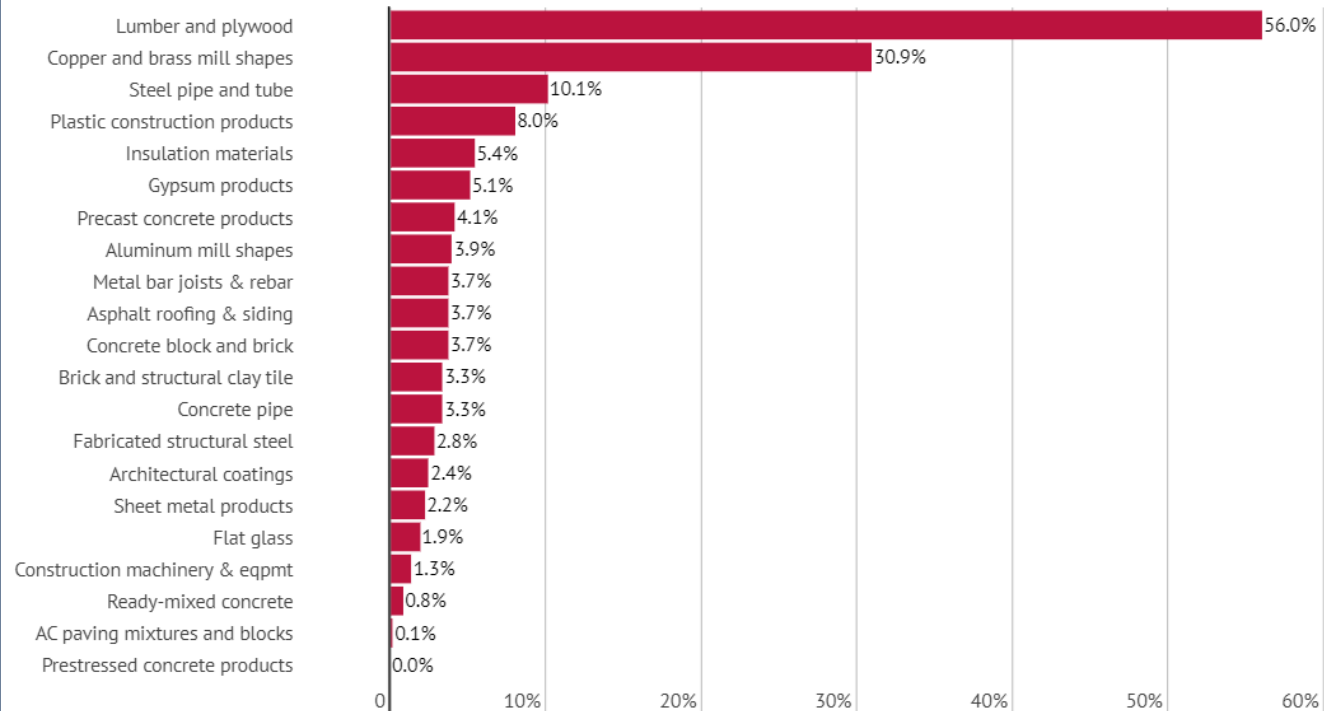
What This



Increasing Material Costs

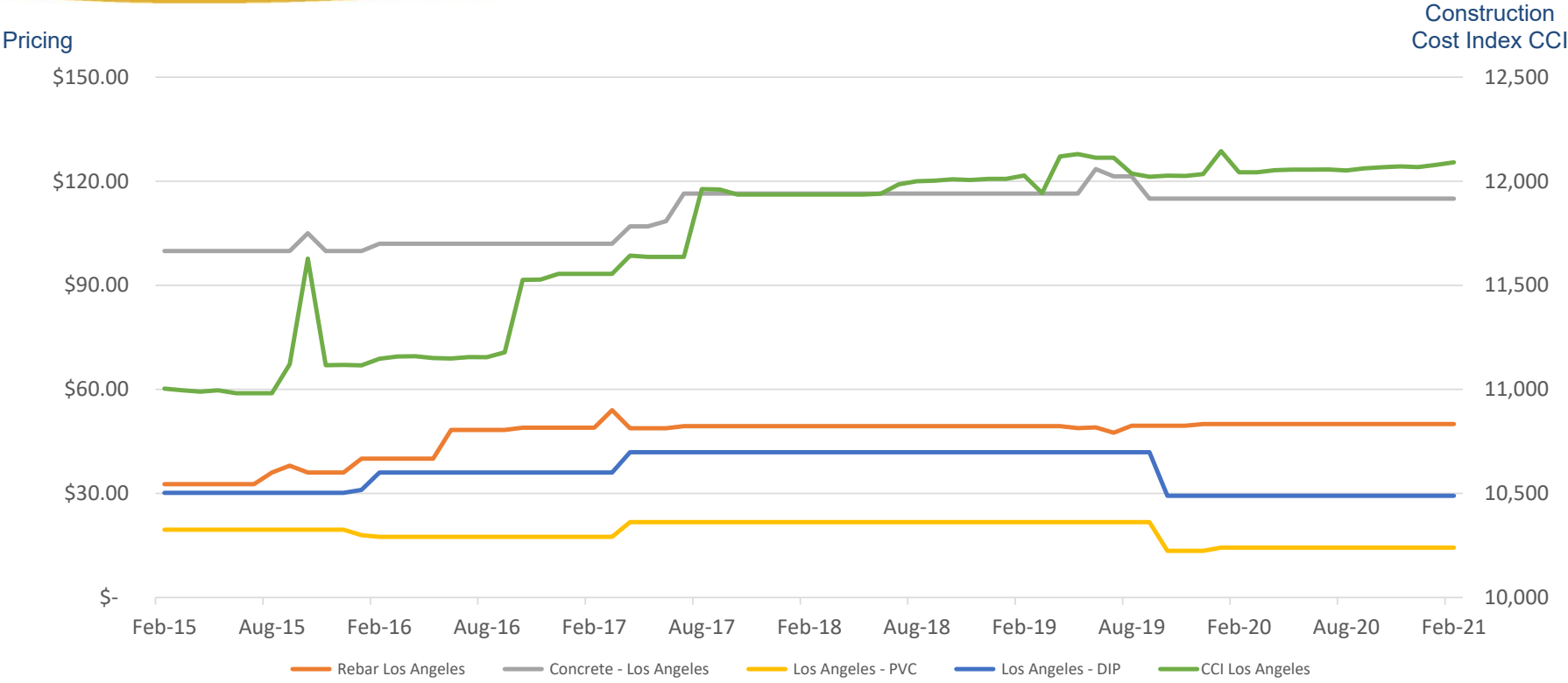
Construction Materials Price Movement - Last 12 Months

CUMMING
Building Value Through Expertise

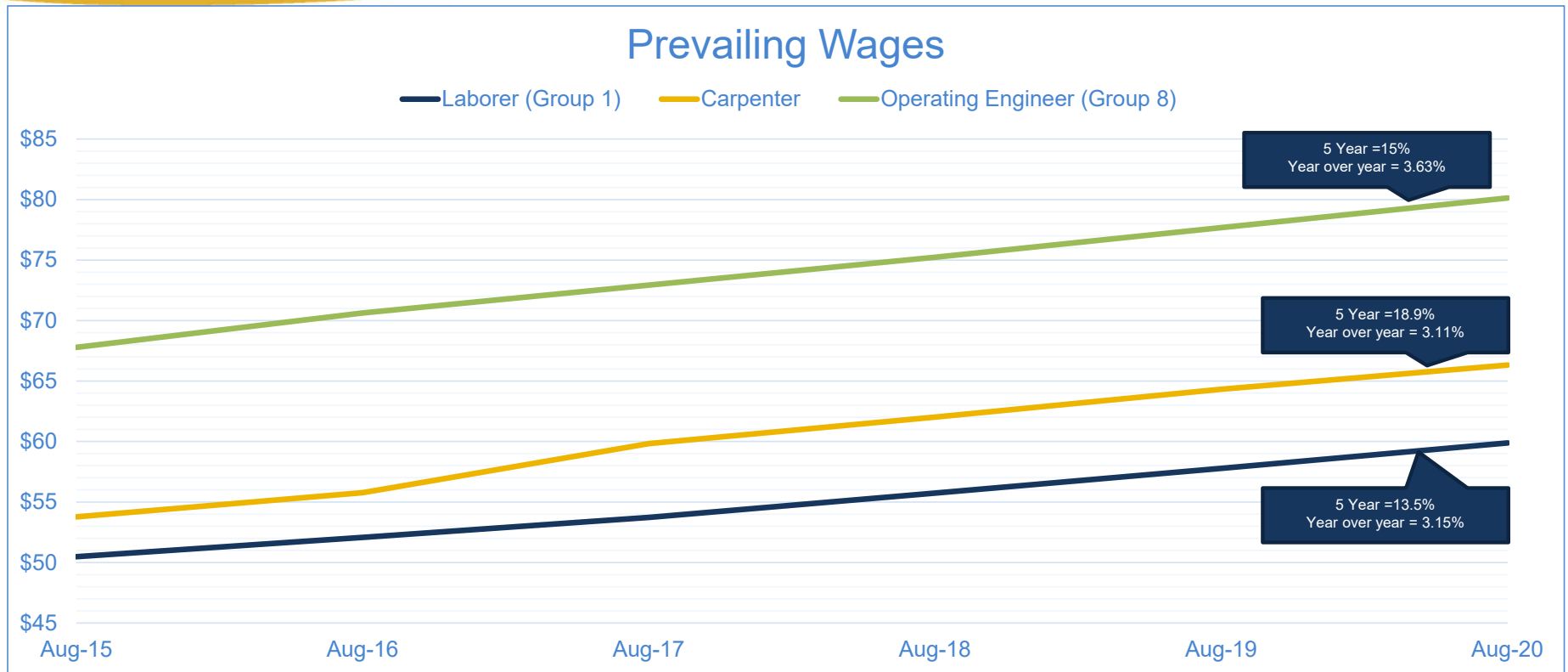


Sources:
US Bureau of Labor Statistics

Material Costs Indices

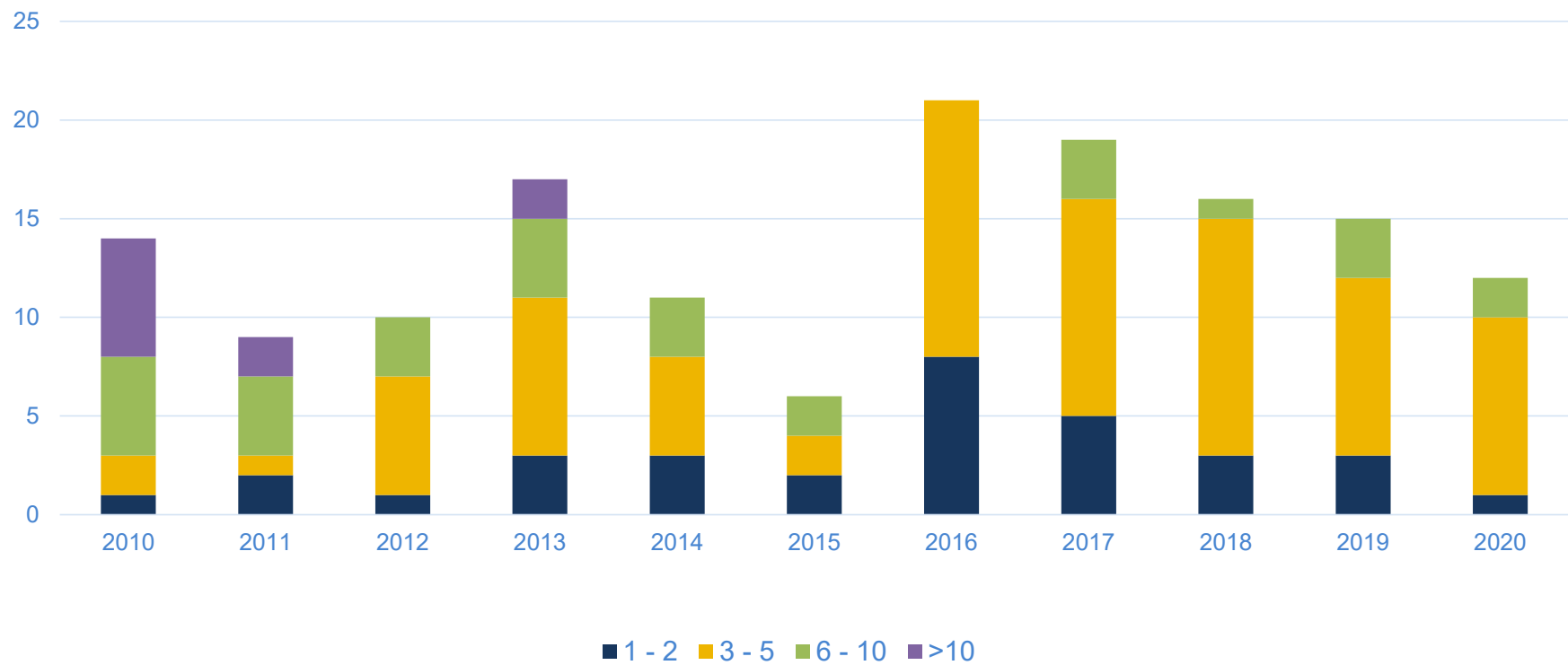


Labor Costs



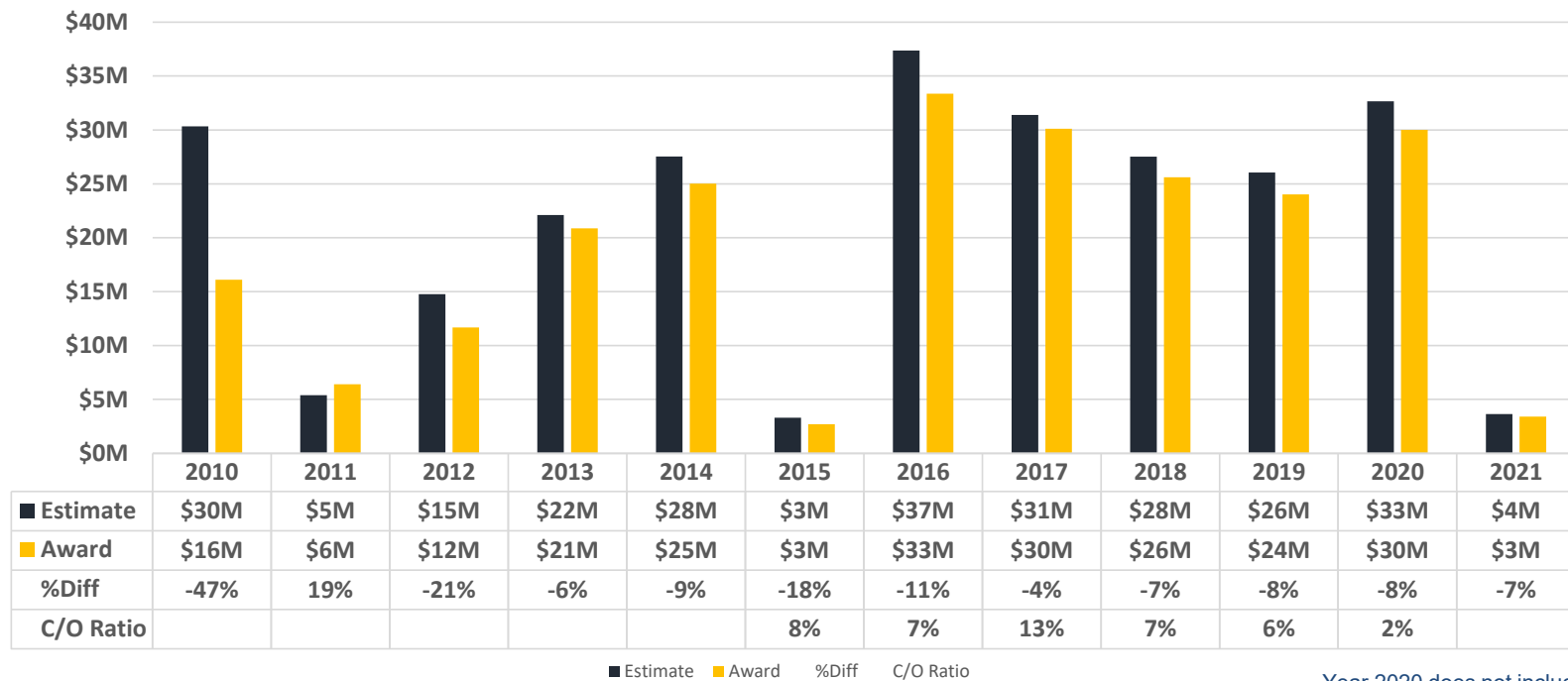
Average Number of Bids Received

Ten Years (2010 - 2020)



Engineer's Estimate vs. Bid Award

Ten Years (2010/2020)



Year 2020 does not include RP-5

What IEUA is Doing.....

- Project Marketing
 - Contractor Engagement
- Continue to Monitor Trends
 - Industry
 - Contractors
 - Other Agencies
- Reputation Management
 - Professional and Fair
 - Client of Choice



INFORMATION
ITEM
3B

RP-5 Expansion Project Update: May 2021

Project Nos. EN19001 and EN19006



RP5: Project Status

Day 289 of 1640 = 17.6%

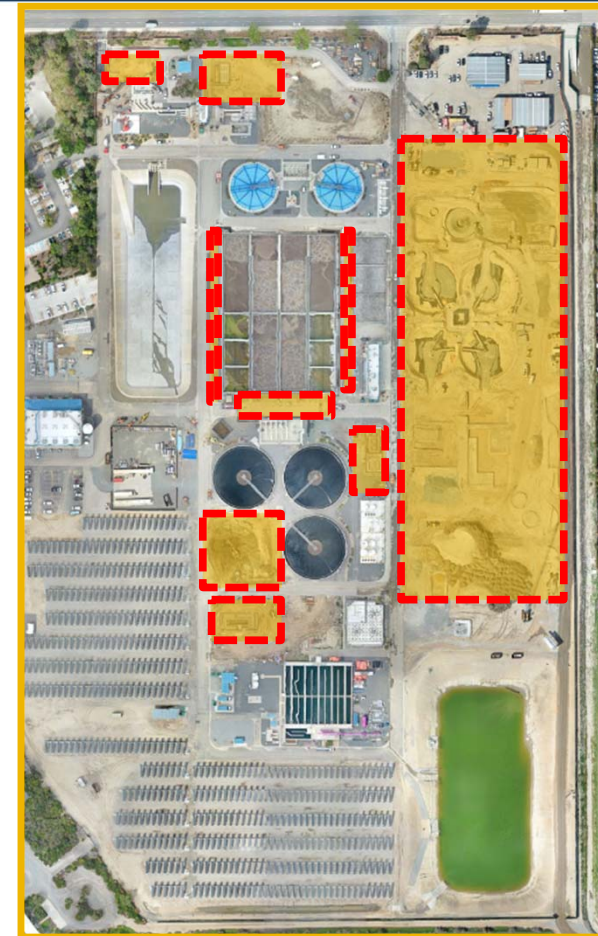


Role	Firm	Contract	This Month's Payment	Total Paid	% Complete
Contractor	WM Lyles	\$ 330,047,427	\$19,969,950	\$34,934,257	10.6%
Designer	Parsons	\$ 33,637,098	\$392,547	\$26,030,856	77.3%
Construction Management	Arcadis	\$ 21,125,523	\$274,385	\$3,337,124	16%

RP-5: Major Activity Areas This Month & Next Month

- Power Center 9
- Fine Screen
- Influent Pump Station
- Power Center 6
- Aeration Basin
- Secondary Clarifier 4B/ MBR Phase 1
- Power Center 4
- Digesters
- Thickening Building

**Construction Staff
112**



RP-5: Major Activities

Power Center 9 Fine Screens Aeration Basin



RP-5: Major Activities

MBR Phase 1



RP-5: Major Activities: Acid Phase Digester

4/1/21: Exterior forms



RP-5: Major Activities: Acid Phase Digester

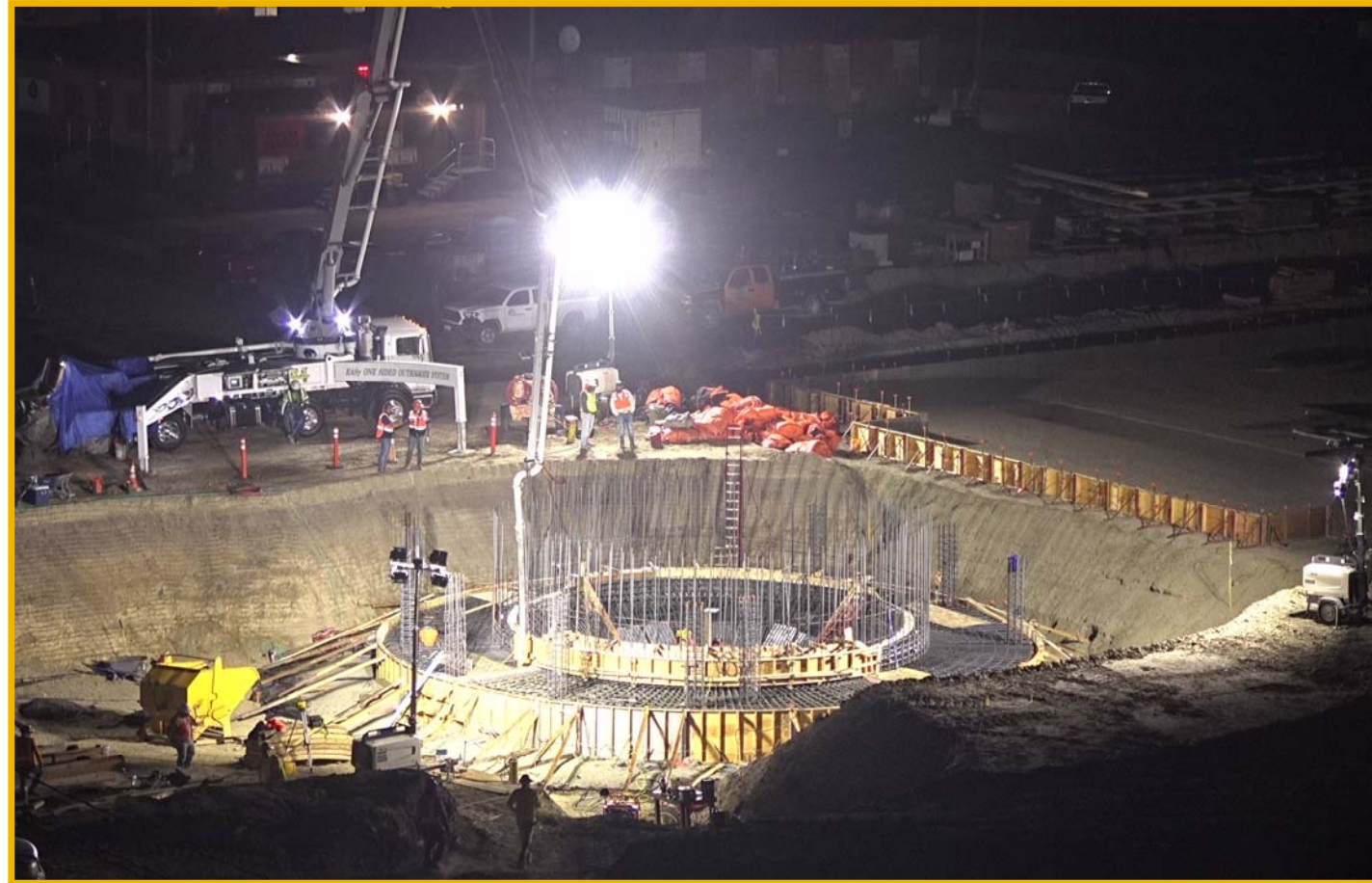
4/15/21: Rebar complete ready for pour



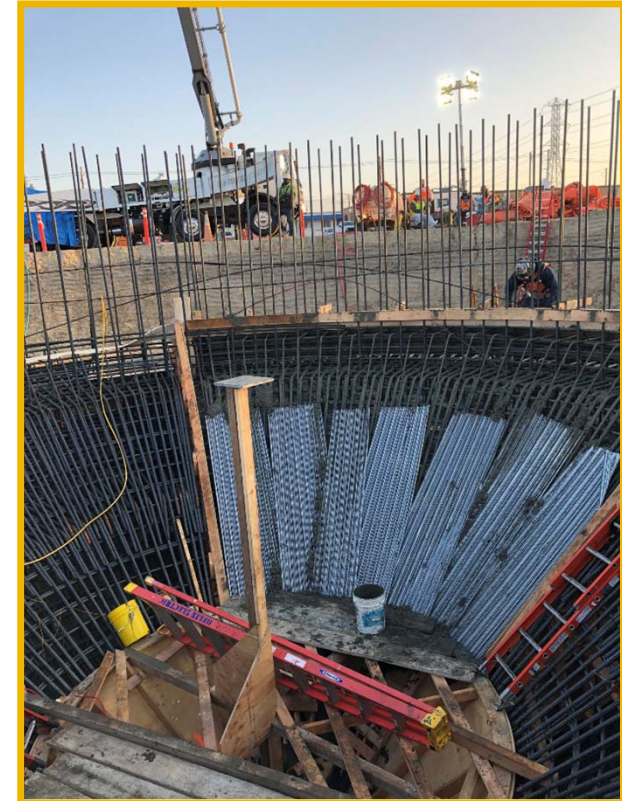
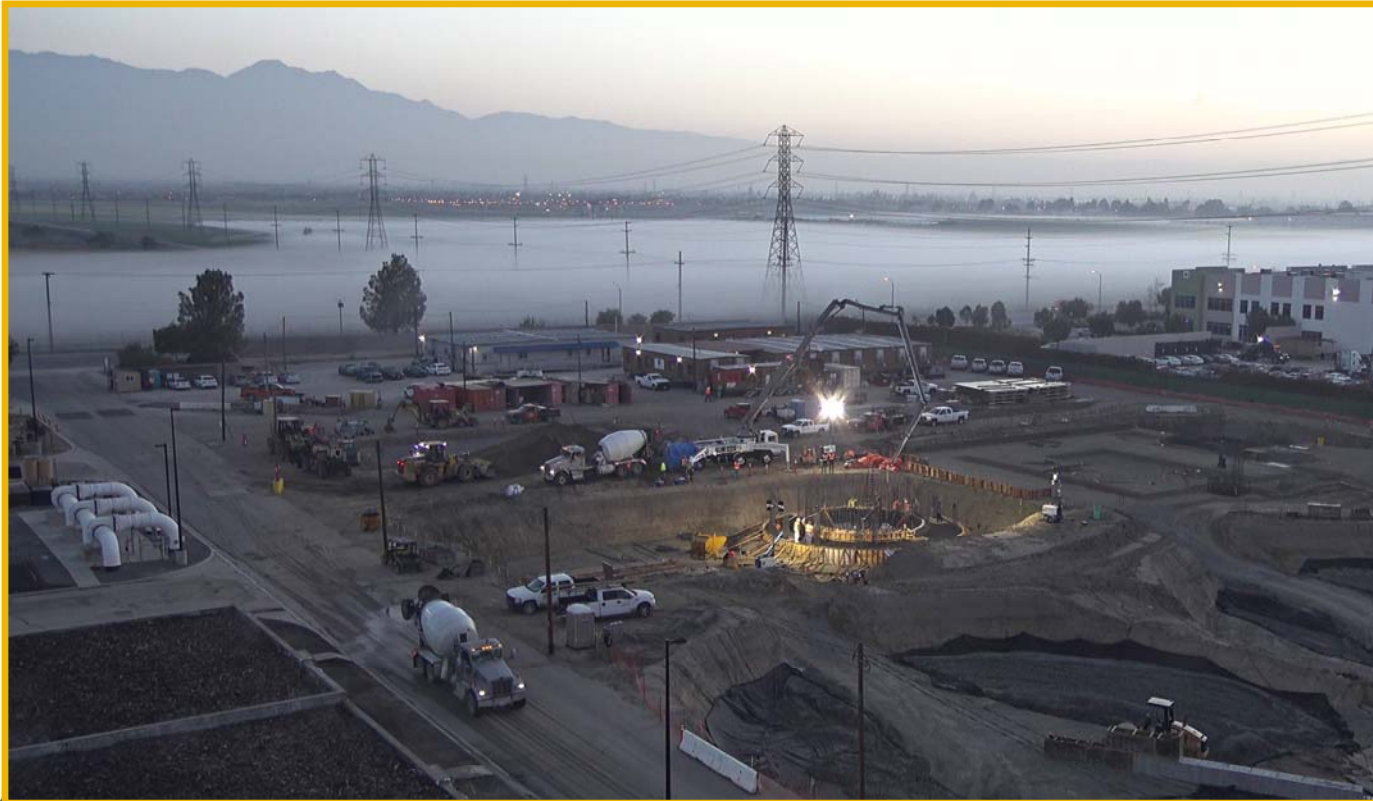
RP-5: Major Activities: Acid Phase Digester

4/16/21

- 12:00 am crews & equipment
- 2:00 am concrete starts



RP-5: Major Activities: Acid Phase Digester



RP-5: Major Activities: Acid Phase Digester

4/16/21

- 12:00 am crews & equipment
- 2:00 am concrete starts
- 11:30 am complete
- 230 yards



RP-5: Major Activities – Solids Looking North



RP-5: Major Activities- Gas Phase Digesters



RP-5: Major Activities – Thickening Bldg.



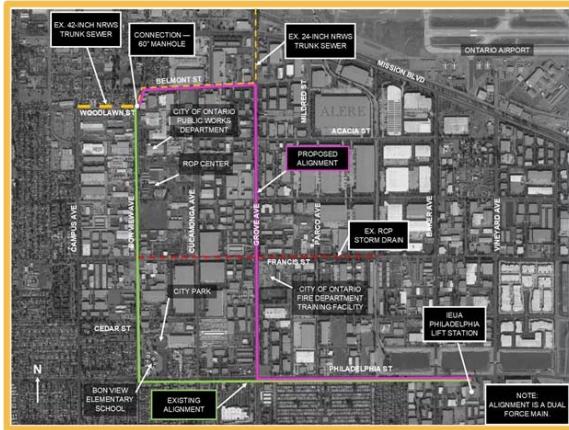
RP-5: Major Activities - Dewatering Bldg.



Questions?

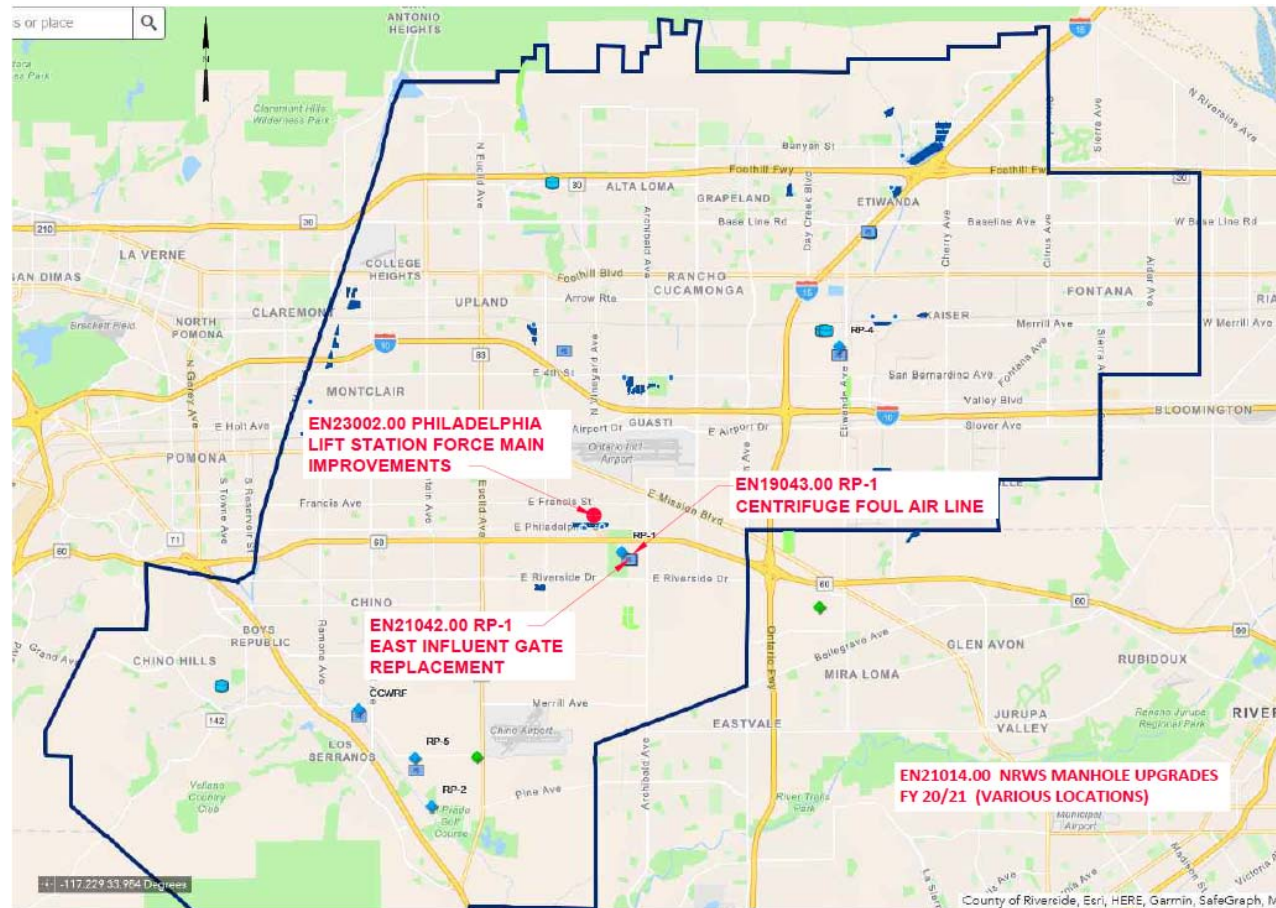
INFORMATION
ITEM
3C

Engineering and Construction Management Project Updates



Jerry Burke, P.E.
Manager of Engineering
May 2021

Project Location Map



RP-1 Centrifuge Foul Air Line

Project Goal: Extend Asset Life and Improve Performance

Total Project Budget: \$445 K
Project Completion: July 2021
Percent Complete: 10%

Phase	Consultant/ Contractor	Current Contract	Amendments/ Change Orders
Design	Kennedy Jenks	\$67 K	180%
Construction (Current)	WM Lyles Co	\$99 K	0%



NRWS Manhole Upgrades FY 20/21

Project Goal: Extend Asset Life



Total Project Budget: \$180 K
Project Completion: May 2021
Construction Percent Complete: 75%

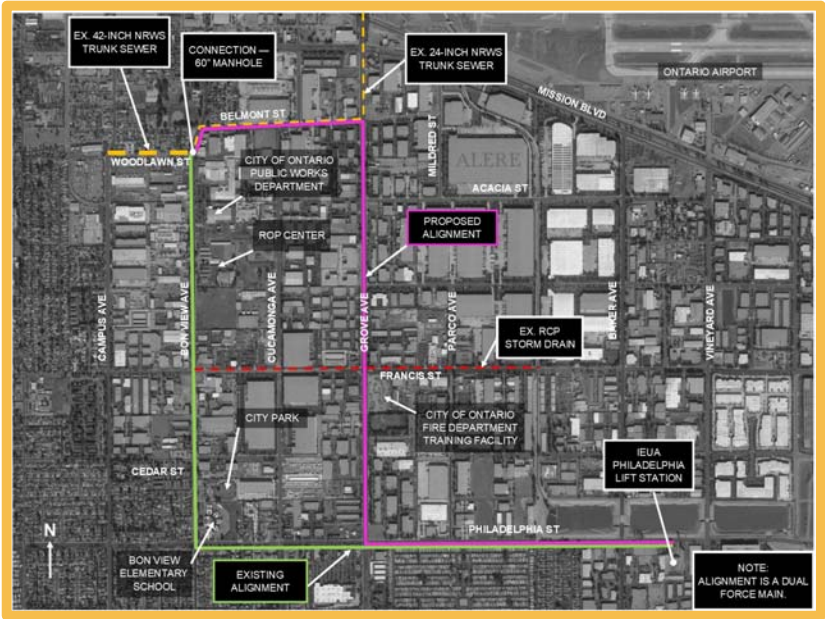
Phase	Consultant Contractor	Current Contract	Amendments/ Change Orders
Design	In-house	N/A	0%
Construction (Current)	Norstar Plumbing and Engineering, Inc.	\$72 K	0%

Philadelphia Lift Station Force Main Improvements

Project Goal: Extend Asset Life and Improve Performance

Total Project Budget: \$18 M
Project Completion: December 2022
Construction Percent Complete: 85%

Phase	Consultant Contractor	Current Contract	Amendments/ Change Orders
Design (Current)	GHD	\$812 K	48%
Construction	TBD	\$0	0%



RP-1 East Influent Gate Replacement

Project Goal: Rehabilitate and Repair Existing Assets



Total Project Budget: \$450 K
Project Completion: March 2023
Design Percent Complete: 0%

Phase	Consultant Contractor	Current Contract	Amendments/ Change Orders
Design	Stantec	\$43 K	0%
Construction	TBA	TBA	0%