



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

**WEDNESDAY, MARCH 10, 2021
9:45 A.M.**

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

PURSUANT TO THE PROVISIONS OF EXECUTIVE ORDER N-25-20 ISSUED BY GOVERNOR GAVIN NEWSOM ON MARCH 12, 2020, AND EXECUTIVE ORDER N-29-20 ISSUED BY GOVERNOR GAVIN NEWSOM ON MARCH 17, 2020 AND IN AN EFFORT TO PROTECT PUBLIC HEALTH AND PREVENT THE SPREAD OF COVID-19, THERE WILL 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.

1. **ACTION ITEMS**

A. **MINUTES**

Approve Minutes of the February 10, 2021 Engineering, Operations, and Water Resources Committee meeting.

2. **INFORMATION ITEMS**

A. **REGULATORY UPDATE: WATER USE EFFICIENCY (POWERPOINT)**

B. **RP-5 EXPANSION PROJECT UPDATE (POWERPOINT)**

RECEIVE AND FILE INFORMATION ITEM

C. **ENGINEERING AND CONSTRUCTION MANAGEMENT PROJECT UPDATES (POWERPOINT)**

3. **GENERAL MANAGER'S COMMENTS**

4. **COMMITTEE MEMBER COMMENTS**

5. **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, March 4, 2021.



Denise Garzaro, CMC

ACTION
ITEM
1A



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

**WEDNESDAY, FEBRUARY 10, 2021
9:45 A.M.**

COMMITTEE MEMBERS PRESENT via Video/Teleconference

Michael Camacho, Chair
Marco Tule

STAFF PRESENT

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

STAFF PRESENT via Video/Teleconference

Jasmin A. Hall, President
Christiana Daisy, Deputy General Manager
Kathy Besser, Executive Manager of External & Government Affairs/AGM
Randy Lee, Executive Manager of Operations/AGM
Christina Valencia, Executive Manager of Finance & Administration/AGM
Adham Almasri, Principal Engineer
Josh Biesiada, Project Manager II
Jerry Burke, Manager of Engineering
Andrea Carruthers, Manager of External Affairs
Javier Chagoyen-Lazaro, Manager of Finance & Accounting
Don Hamlett, Acting Deputy Manager of Integrated Systems Services
Jennifer Hy-Luk, Administrative Assistant II
Jason Marseilles, Deputy Manager of Engineering
Lisa Morgan-Perales, Senior Water Resources Analyst
Cathleen Pieroni, Manager of Inter-Agency Relations
Craig Proctor, Deputy Manager of Strategic Planning & Resources
Sushmitha Reddy, Manager of Laboratories
Jeanina Romero, Executive Assistant
Daniel Solorzano, Technology Specialist I
Teresa Velarde, Manager of Internal Audit
Brian Wilson, Senior Engineer

OTHERS PRESENT via Video/Teleconference

Maureen Erbeznik, Maureen Erbeznik and Associates

CALL TO ORDER

Committee Chair Michael Camacho called the meeting to order at 10:05 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. CONSENT ITEMS

The Committee:

- ◆ Approved Minutes of the January 13, 2021 Engineering, Operations, and Water Resources Committee meeting.

2A. ACTION ITEMS

The Committee:

- ◆ Recommended that the Board:
 1. Award a consultant contract for the Orchard Recycled Water Turnout Improvements, Project No. EN17041, to Cedro Construction, Inc., in the amount of \$128,297; and
 2. Authorize the General Manager to execute the consultant contract, subject to non-substantive changes;

as a Consent Calendar item on the February 17, 2021 Board meeting agenda.

3A – 3D. INFORMATION ITEMS

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

- ◆ Regional Water Use Efficiency Annual Report – FY 2019/20
- ◆ Laboratory Semi-Annual Update
- ◆ RP-5 Expansion Project Update: February 2021
- ◆ Engineering and Construction Management Project Updates

4. GENERAL MANAGER'S COMMENTS

General Manager Shivaji Deshmukh stated that a presentation on the Recycled Water Program was given at the February 4, 2021 Policy Committee Meeting. The presentation included background and history of the development of the regional recycled water program, as well as a briefing on the challenges IEUA and the member agencies are currently facing regarding the recycled water program. Recycled water policy challenges and considerations include the need to develop a sustainable recycled water rate structure, the question of whether the region as a whole wants to continue to maximize local supply development (recycled water and external sources), and when it would be appropriate to ramp up water quality compliance investments.

General Manager Deshmukh noted that staff continues to work with The Metropolitan Water District of Southern California, the California Water Commission, and local agencies to see if the Water Storage Investment Program (WSIP) can be reconfigured to meet both local needs and state funding requirements. The Agency received comments from the City of Ontario and Cucamonga Valley Water District at the February 4, 2021 Policy meeting regarding the Agency's ongoing investigation on the WSIP program that was shared at the February 3, 2021 IEUA Board Workshop. The Agency plans to continue to work with stakeholders through the end of the year.

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 Camacho adjourned the meeting at 10:55 a.m.

Respectfully submitted,

Denise Garzaro
Board Secretary/Office Manager

*A Municipal Water District

APPROVED: MARCH 10, 2021

DRAFT

INFORMATION
ITEM
2A

Regulatory Update: Water Use Efficiency



Changes in Water Use Efficiency Regulatory Policy

2007: AB 1420

Urban water suppliers must demonstrate implementation of DMMs in 2010 UWMPs to be eligible for State grant and loan funding

2009: SB X7-7

Retail agencies must set a 20% reduction in gpcd water use by 2020 (and 10% reduction by 2015) for State grant and loan eligibility. **Water suppliers** must meet the goals

2018: SB 606/AB 1668

Urban retail water suppliers must calculate a WUO by 11/2023 and every year thereafter. Penalties for not meeting WUO are up to \$10,000/day (after a grace period)

Calculating an Urban Water Use Objective

Indoor Residential



+

Outdoor Residential



+

Outdoor CII



+

Water Losses



Indoor Standard =
 $55 \text{ GPCD} * \text{Pop.} * 365 \text{ days}$

GPCD will reduce to 52.5 by
2030 and 50 after 2030

Outdoor Target =
 $(\text{Act. Evaporation} - \text{Eto}) * (\text{Landscape Area}) * (\text{Evaporation Adj. Factor})$

DWR will provide residential
landscape area measurements for
each agency by Jan 2021

CII Outdoor Standard is TBD

DWR will develop
recommendations via a stakeholder
process.

Loss Target =
 $(\text{Loss Standard per Connection}) * (\text{Number of Connections})$

State to adopt water loss standards
for urban retail water providers by
1 July 2020.

+ Variances + Recycled Water Bonus

= Water Supplier's Unique Water Use Objective

Status of State Agencies Workgroups

Workgroup	Status	Deadline
Wholesale Water Loss	✓ Completed report to the legislature	
Urban Water Management Plan Guidebook (DWR)	<ul style="list-style-type: none"> Kick-off: March 10, 2020 Draft Guidebook Workshop: 9/16/20 	Early 2021 UWMPs due 7/1/2021
Annual Water Supply and Demand Assessment (DWR Guidance)	<ul style="list-style-type: none"> Kick-off: March 9, 2020 Webinar 1/27/2021 	Must be submitted with UWMP 7/1/21
Landscape Area Workgroup	<ul style="list-style-type: none"> Kick-off: February 26, 2020 Last mtg: 2/12/2021 	Jan. 1, 2021 to provide water suppliers w/data
Water Use Studies Workgroup (indoor water use study, variances, CII BMPs)	<ul style="list-style-type: none"> Kick-off: November 2019 Study not yet published 	Jan. 1, 2021
Standards, Methodologies, and Performance Measures Workgroup	<ul style="list-style-type: none"> Kick-off: October 28, 2020 Last mtg: 2/24/2021 	DWR recommendations to SWRCB by October 21, 2021
Data Streamlining Workgroup	<ul style="list-style-type: none"> Not yet kicked off 	No deadline

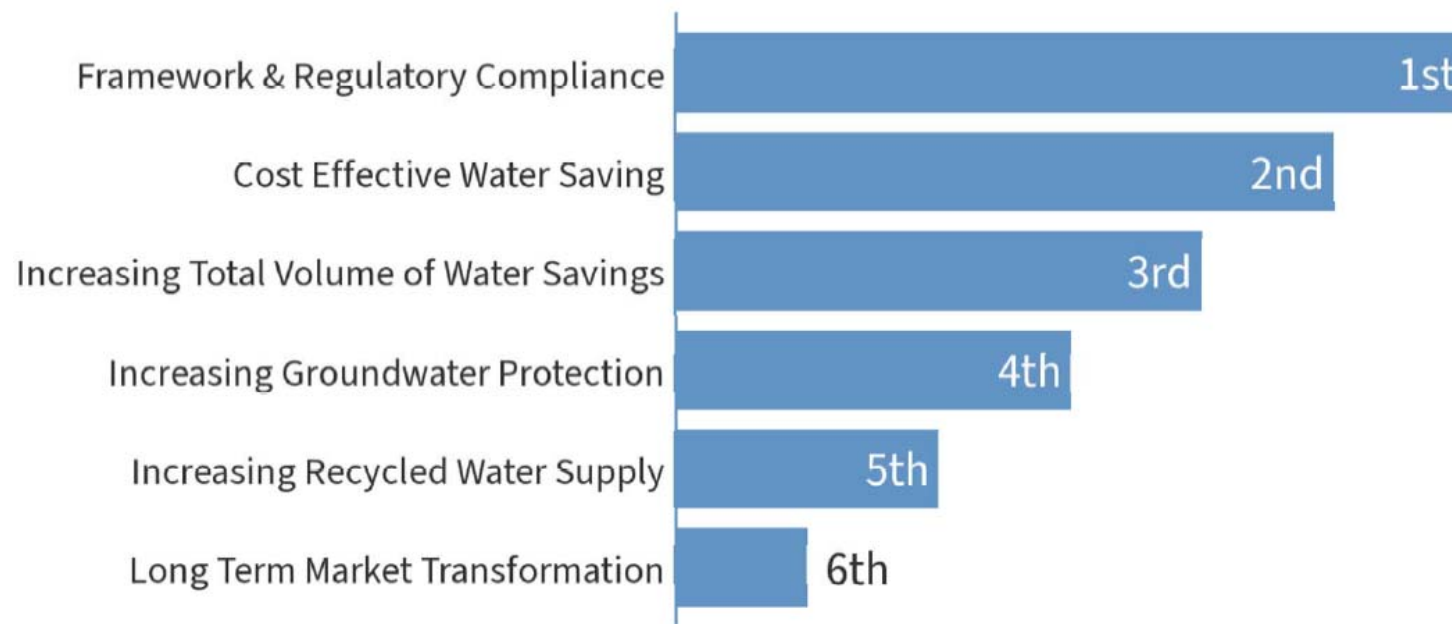
Data Sources – Supplier Landscape Area (LAs)

- LAs data is provided to suppliers by DWR
- DWR produced three classes of supplier level aggregated landscape areas
 - Irrigable-Irrigated (LAs-II)
 - Irrigable-Not-Irrigated (LAs-INI)
 - Not Irrigable (LAs-NI)
- Irrigable landscape area is the sum total of LAs-II and LAs-INI
 - Irrigable = LAs-II + LAs-INI
- All retail water suppliers will receive their landscape area by the end of March 2021
- LAM Stakeholder meeting in April 2021



Recent Survey of IEUA Member Agency WUE Priorities

What are Your Agency's Overall Objectives for WUE?





IEUA Established Forum for Regional WUE Advocacy

“Divide and Conquer” meetings

Share Info

Regional Analysis

Comment Regionally, as appropriate



INFORMATION
ITEM
2B

RP-5 Expansion

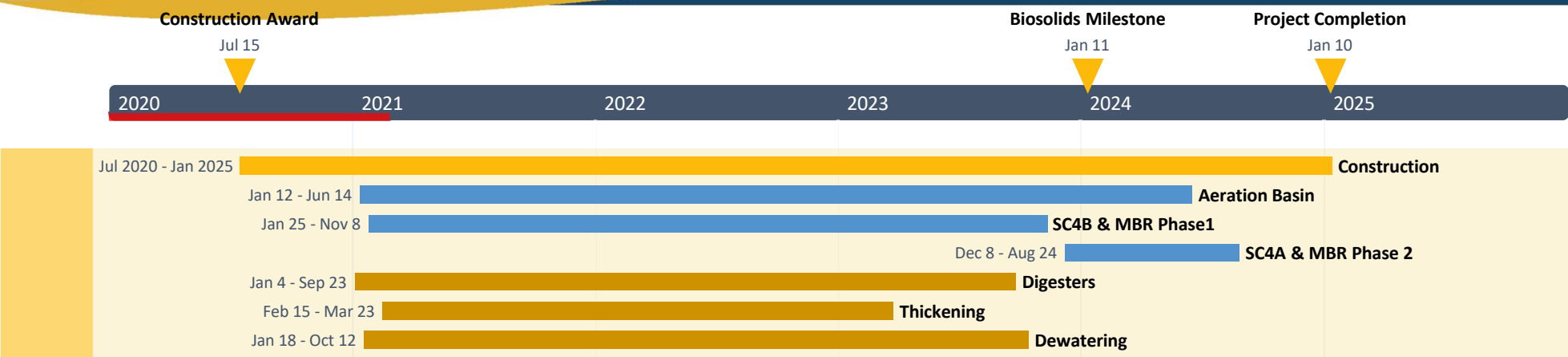
Project Update: March 2021

Project Nos. EN19001 and EN19006



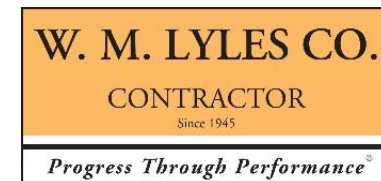
RP5: Project Status

Day 228 of 1640 = 14%



Role	Firm	Contract	This Month's Payment	Total Paid	% Complete
Contractor	WM Lyles	\$ 330,046,020	\$3,451,132	\$12,799,013	4%
Designer	Parsons	\$ 31,685,239	\$390,6356	\$23,412,912	75%
Construction Management	Arcadis	\$ 21,125,523	\$281,044	\$2,770,338	13%

RP-5: Construction Team



Partnering: 3/29/21



RP-5: Parsons - Management Team

PARSONS



Satish Kamath, PE, BCEE

Vice President, Company Officer

- Responsible for Parsons Performance
- Water/Wastewater Practice Lead in California
- RP-5 responsible for adequate resource availability



Ali Ahmadi, PhD, PE

Design Manager

- RP-5 coordinates efforts of design disciplines/team during construction

RP-5: Parsons

PARSONS



75 Years



**16,000+
Employees**



**\$4B+
Annual Revenue**



**10,000+
Degrees/Certifications**



- **28 countries**
- **50 states**



**National Water/Wastewater
Design Center in Pasadena, CA**

- **Water/Wastewater**
- **RP-5 Project**

RP-5: Arcadis - Management Team



Rick Farr

Vice President

- Responsible for West Region PM/CM
- RP-5 responsible for CM team resources and construction advisor to IEUA



Dick Pascucci

Construction Manager

- RP-5 responsible for Construction Management Team and Inspections

RP-5: Arcadis



Arcadis at a Glance



Arcadis Generates
\$4.2 Billion in Revenues

Worldwide



27,000 +
Staff



70+
Countries

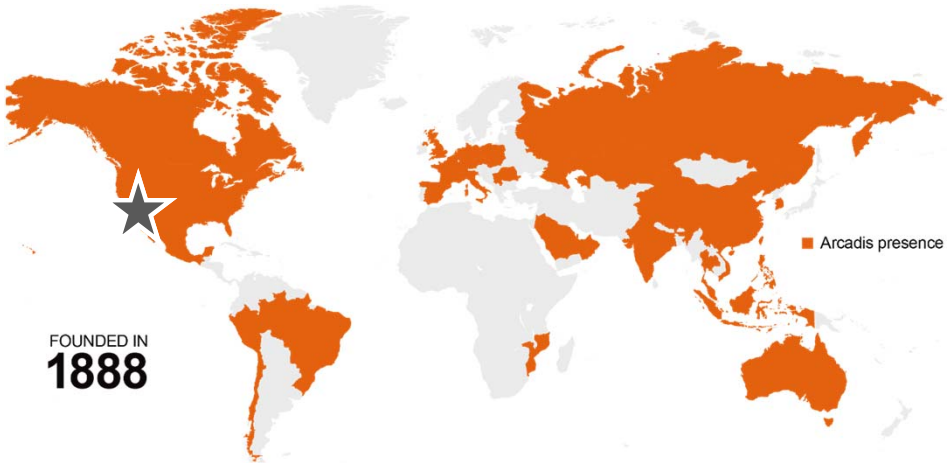
North America



5,000 +
Staff

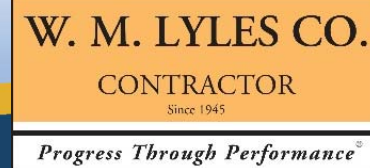


>120 +
Offices



- **RP-5 Project**

RP-5: W.M. Lyles Co. - Management Team



Stan Simmons
President/CEO



Grant Gourley
Vice President
Southern Division Manager



KEN STROSNIDER
EXECUTIVE VICE PRESIDENT
CHIEF OF OPERATIONS



JUAN AHUMADA
RP-5 PROJECT EXECUTIVE
SOUTHERN DIVISION

RP-5: W.M. Lyles Co. – Reference Projects

LACSD Palmdale WRP Stage 5 Plant Expansion Phase 1

- \$116M Expansion to 15 MGD
- 9 Final Sedimentation Tanks
- 6 Aeration Tanks
- RAS Pump Station



RP-5 Expansion Means:

- Sustained Revenue for 4 years
- Growth Opportunity for Employees



East County Advanced Water Purification Project

- \$320M Progressive DB
- 16 MGD WRF
- 11.5 MGD AWP Facility
- Solids Handling Facility

Stockton Regional Water Control Facility Improvements Project

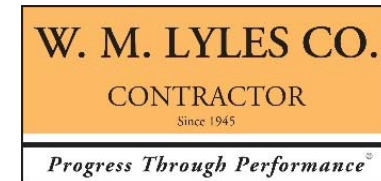
- \$204M Progressive DB
- 82 MGD major update + expansion to 105 MGD



OCSD Sludge Dewatering & Odor Control Project

- \$138M WW Construction
- 100 MGD Plant

RP-5: Construction Team



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

- Power Center 9
- Power Center 4
- Digesters
- Aeration Basin Channels
- Secondary Clarifier 4B/ MBR Phase 1



RP-5: January 26th Flyover



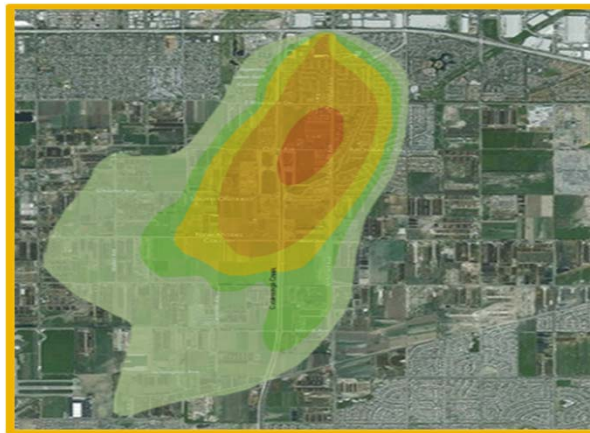
RP-5: January 26th Flyover Solids



Questions?

INFORMATION
ITEM
2C

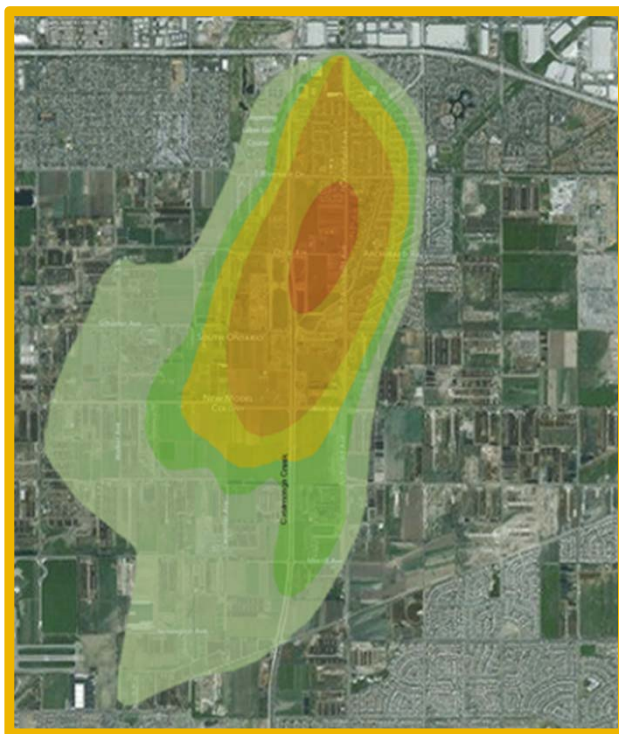
Engineering and Construction Management Project Updates



Jerry Burke, PE
Manager of Engineering
March 2021

TCE Plume Cleanup

Project Goal: Clean Up Groundwater



Total Project Budget: \$26.2 M
Project Completion: August 2021
Percent Complete: 90%

Project Construction Components	Contractor	Current Contract	Change Orders	Status
Well II-12 Drilling	Southwest	\$1.4 M	-	Completed
Well II-12 Equipping	Cora Constructors	\$3.1 M	-	In Progress
Monitoring Well MW-II-3	Yellow Jacket	\$424 K	60%	Completed
Monitoring Well MW-II-4/MM-II-5	Yellow Jacket	\$710 K	1%	In Progress
CDA RWI Pipeline	Ferreira	\$ 621 K	-	Completed
Chino II Decarbonator Construction	Pascal & Ludwig	\$2.5 M	7%	In Progress
Phase I Pipeline Construction	Gwinco	\$1.4 M	12%	Completed
Phase II Pipeline Construction	Gwinco	\$6.9 M	5%	In Progress
Phase III Pipeline Construction	Gwinco	\$1.8 M	9%	Completed

RP-1 Mechanical Restoration and Upgrades

Project Goal: Extend Asset Life

Total Project Budget: \$10 M

Project Completion: May 2021

Construction Percent Complete: 85%

Phase	Consultant/ Contractor	Current Contract	Amendments/ Change Orders
Design	Stantec	\$583 K	27%
Construction (Current)	Kiewit	\$6.6 M RS1	1%



RP-1 Hot Water Loop Replacement

Project Goal: Improve Reliability



Total Project Budget: \$1.4M
Project Completion: April 2021
Construction Percent Complete: 40%

Phase	Consultant Contractor	Current Contract	Amendments/ Change Orders
Design	In-house W/ Kennedy Jenks Support	\$25K	0%
Construction (Current)	Ferreira	\$996K	0%