

AGENDA REGULAR MEETING OF THE BOARD OF DIRECTORS

WEDNESDAY, JULY 15, 2020 10:00 A.M.

INLAND EMPIRE UTILITIES AGENCY* Telecon: (415) 856-9169/Conference ID: 794 202 809#

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 ANY BOARD MEMBER MAY CALL INTO THE BOARD MEETING WITHOUT OTHERWISE COMPLYING WITH ALL BROWN ACT'S TELECONFERENCE REQUIREMENTS.

TELECONFERENCE ACCESSIBILITY FOR THE GENERAL PUBLIC:

In all efforts to prevent the spread of COVID-19, until further notice, the Inland Empire Utilities Agency will be holding all Board and Committee meetings by teleconferencing.

The meeting will be accessible at: (415) 856-9169 / Conf Code: 794 202 809#

This meeting is being conducted virtually by video and audio conferencing. There will be no public location available to attend the meeting; however, the public may participate and provide public comment during the meeting by calling into the number provided above. The public may also view the meeting live through the Agency's website. Alternatively, you may email your public comments to the Interim Board Secretary/Office Manager Laura Mantilla at lmantilla@ieua.org no later than 24 hours prior to the scheduled meeting time. Your comments will then be read into the record during the meeting.

<u>CALL TO ORDER OF THE INLAND EMPIRE UTILITIES AGENCY BOARD OF</u> DIRECTORS MEETING

FLAG SALUTE

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 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. PUBLIC HEARING

A. <u>2020 OBMP UPDATE SUBSEQUENT ENVIRONMENTAL IMPACT REPORT (Eng/Ops/WR)</u>

It is recommended that the Board:

- 1. Hold a public hearing to receive comments on the proposed Resolution No. 2020-7-13; and
- 2. After closing the public hearing:
 - a. Adopt Resolution No. 2020-7-13, certifying the Final Subsequent Environmental Impact Report, including the Mitigation Monitoring and Reporting Program, and the Findings of Fact and Statement of Overriding Considerations for the 2020 Optimum Basin Management Program Update; and
 - b. Authorize the Filing of Notice of Determination with the County Clerk and State Clearinghouse, Governor's Office of Planning and Research.

2. CONSENT ITEMS

NOTICE: All matters listed under the Consent Calendar are considered to be routine and non-controversial and will be acted upon by the Board by one motion in the form listed below. There will be no separate discussion on these items prior to the time the Board votes unless any Board members, staff or the public requests specific items be discussed and/or removed from the Consent Calendar for separate action.

A. MINUTES

The Board will be asked to approve the minutes from the June 3, 2020 Board Workshop/Meeting and June 17, 2020 Board Meeting.

B. REPORT ON GENERAL DISBURSEMENTS (Fin & Admin) Staff recommends that the Board approve the total disbursements for the month of May 2020, in the amount of \$13,298,742.89

C. <u>SALE OF ETIWANDA WASTE LINE CAPACITY UNITS</u> (Eng/Ops/WR) (Fin & Admin)

Staff recommends that the Board:

- 1. Approve the sale of seven (7) Etiwanda Waste Line capacity units to MVWD Plant 30 for \$1,505,000; and
- 2. Authorize the General Manager to execute the Capacity Right Agreement, subject to non-substantive changes.

D. <u>2020 LAND USE DEMAND MODEL</u> (*Eng/Ops/WR*)

Staff recommends that the Board:

- 1. Approve Task Order No. 6 with Chino Basin Watermaster for the 2020 Land Use Demand Model by Wildermuth Environmental, Inc., for the not-to-exceed amount of \$232,277; and
- 2. Authorize the General Manager to finalize and execute the Task Order, subject to non-substantive changes.

E. <u>RP-5 SOLIDS HANDLING FACILITY EVALUATION CONSULTANT CONTRACT AWARD</u> (Eng/Ops/WR)

Staff recommends that the Board:

- 1. Award a consultant contract for the RP-5 SHF Future Uses Evaluation, Project No. EN20034.03, to GHD Inc., for a not-to-exceed amount of \$148,864.50; and
- 2. Authorize the General Manager to execute the consultant contract, subject to non-substantive changes.

F. <u>CONTRACT AWARD FOR AGENCY-WIDE HAZARDOUS MATERIAL</u> <u>HANDLING SERVICES</u> (*Eng/Ops/WR*)

Staff recommends that the Board:

- Approve the award of contract No. 4600002925 to Radar Environmental to provide Hazardous Material Handling Services for a total not-to-exceed amount of \$300,000 over a two-year period with three 1-year options to extend with CPI increases; and
- 2. Authorize the General Manager to execute the service contract, subject to non-substantive changes.

G. PURCHASE OF AGENCY-WIDE INSURANCE FOR FY 2020/21 (Fin & Admin)

Staff recommends that the Board ratify the purchase of Agency-wide insurance policies providing coverage through Fiscal Year 2020/21, for the following amounts:

a. Excess General Liability insurance in the amount of \$419,506;

- b. Property, Boiler & Machinery insurance in the amount of \$500,076;
- c. Excess Workers' Compensation insurance in the amount of \$86,929; and
- d. Master Crime/Fraud insurance in the amount of \$20,740.

H. RP-4 AERATION BASIN DIFFUSER REPLACEMENT AND WALL REINFORCEMENT CONSTRUCTION CONTRACT AWARD

(Eng/Ops/WR) (Fin & Admin)

Staff recommends that the Board:

- 1. Award a construction contract for the Aeration Basin Diffuser Replacement and Wall Reinforcement, Project No. EN17110 to Genesis Construction, in the amount of \$4,102,444;
- 2. Approve a contract amendment to Carollo Engineers Inc., for engineering services during construction for a not-to-exceed amount of \$176,156; and
- 3. Authorize the General Manager to execute the contract and contract amendment, subject to non-substantive changes.

3. ACTION ITEMS

A. <u>CALIFORNIA ASSOCIATION OF SANITATION AGENCIES (CASA)</u>
<u>ELECTION OF DIRECTORS FOR FISCAL YEAR 2020/21 AND PROPOSED ANNUAL MEMBERSHIP DUES FOR CALENDAR YEAR 2021</u>

Staff recommends that the Board:

- 1. Approve or not approve the recommended slate of the four nominees to the four available Board seats; and
- 2. Approve the proposed CASA Annual Membership Dues Proposed Resolution for calendar year 2021.

B. <u>FISCAL YEAR 2020/21 PROPOSED BUDGET AMENDMENT AND</u> RATE RESOLUTIONS (Fin & Admin)

Staff recommends that the Board:

- 1. Approve the amendments to the FY 2020/21 Adopted Budget;
- Approve the inter-fund loan repayment of \$3 million from the Recycled Water fund to the Non-Reclaimable Wastewater in FY 2020/21; and
- 3. Adopt Rate Resolution Nos. 2020-7-1 through 2020-7-12.

C. RP-5 EXPANSION PROJECT CONSTRUCTION CONTRACT AWARD

(Eng/Ops/WR) (Fin & Admin)
Staff recommends that the Board:

- 1. Award a construction contract for the RP-5 Expansion, Project Nos. EN19001 and EN19006, to W.M. Lyles Co., in the amount of \$329,982,900; and
- 2. Authorize the General Manager to execute the contract and budget augmentation, subject to non-substantive changes.

4. <u>INFORMATION ITEMS</u>

- A. OPERATIONS DIVISION QUARTERLY UPDATE (POWERPOINT) (Eng/Ops/WR)
- B. <u>ENGINEERING AND CONSTRUCTION MANAGEMENT UPDATES</u> (POWERPOINT) (Eng/Ops/WR)
- C. <u>MWD UPDATE (ORAL)</u>
- D. <u>CBWM UPDATE (ORAL)</u>
- E. SAWPA UPDATE (ORAL)
- F. <u>CBP UPDATE (ORAL)</u>

RECEIVE AND FILE INFORMATION ITEMS

- G. GRANTS DEPARTMENT SEMI-ANNUAL UPDATE (POWERPOINT)
- H. TREASURER'S REPORT OF FINANCIAL AFFAIRS (WRITTEN/POWERPOINT) (Fin & Admin)
- I. PUBLIC OUTREACH AND COMMUNICATION (WRITTEN) (Community & Leg)
- J. STATE LEGISLATIVE REPORT AND MATRIX FROM WEST COAST ADVISORS (WRITTEN) (Community & Leg)
- K. FEDERAL LEGISLATIVE REPORT AND MATRIX FROM INNOVATIVE FEDERAL STRATEGIES (WRITTEN) (Community & Leg)
- L. <u>CALIFORNIA STRATEGIES</u>, <u>LLC MONTHLY ACTIVITY REPORT</u> (WRITTEN) (Community & Leg)

5. <u>AGENCY REPRESENTATIVES' REPORTS</u>

A. <u>SAWPA REPORT (WRITTEN)</u>
July 7, 2020 SAWPA Commission meeting.

B. MWD REPORT (WRITTEN)

July 14, 2020 Board meeting.

C. <u>REGIONAL SEWERAGE PROGRAM POLICY COMMITTEE REPORT</u>

July 2, 2020 Regional Sewerage Program Policy Committee meeting.

D. CHINO BASIN WATERMASTER REPORT (WRITTEN)

June 25, 2020 CBWM Board meeting.

E. CHINO BASIN DESALTER AUTHORITY (WRITTEN)

July 2, 2020 CDA Board meeting.

F. INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY

Next regular meeting is scheduled for August 3, 2020.

6. GENERAL MANAGER'S REPORT (WRITTEN)

7. BOARD OF DIRECTORS' REQUESTED FUTURE AGENDA ITEMS

8. DIRECTORS' COMMENTS

A. CONFERENCE REPORTS

This is the time and place for the Members of the Board to report on prescheduled Committee/District Representative Assignment meetings, which were held since the last regular Board meeting, and/or any other items of interest.

9. CLOSED SESSION

A. <u>PURSUANT TO GOVERNMENT CODE SECTION 54956.9(a) – CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION</u>

 Chino Basin Municipal Water District vs. City of Chino, Case No. RCV51010

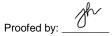
B. PURSUANT TO GOVERNMENT CODE SECTION 54957(b)(1) – PUBLIC EMPLOYMENT

Board Secretary/Office Manager

10. ADJOURN

*A Municipal Water District

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Board Secretary (909) 993-1944, 48 hours prior to the scheduled meeting so that the Agency can make reasonable arrangements.



Declaration of Posting

I, Laura Mantilla, Interim 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. at the Agency's main office, 6075 Kimball Avenue, Building A, Chino, CA on Thursday, July 9, 2020.

Laura Mantilla

PUBLIC HEARING

1A



Date: July 15, 2020

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

Committee: Engineering, Operations & Water Resources 07/08/20

Executive Contact: Christiana Daisy, Executive Manager of Engineering/AGM

Subject: 2020 OBMP Update Subsequent Environmental Impact Report

Executive Summary:

Chino Basin Watermaster (CBWM) developed the 2000 Optimum Basin Management Program (OBMP) to establish a groundwater management program that enhances safe yield and water quality of the Chino Basin, enabling users to cost-effectively utilize groundwater. IEUA serving as lead agency adopted the Program Environmental Impact Report (PEIR) in July 2000. CBWM initiated the 2020 OBMP Update report to update and incorporate an improved understanding of basin characteristics and address new challenges. Tom Dodson & Associates (TDA) has prepared a Subsequent Environmental Impact Report (SEIR) for the 2020 OBMP Update, with IEUA again serving as lead agency.

The SEIR determined that most potential adverse environmental impacts can be mitigated to a less than significant level and identified potential unavoidable significant impacts relating to Biological Resources, Greenhouse Gases, and Utilities and Service Systems. The Statement of Overriding Considerations show that program benefits outweigh these unavoidable significant impacts. Certification of the SEIR will allow it to function as a foundational environmental document for the Region for the next 20 to 30 years to help address basin challenges and enable future funding opportunities.

Staff's Recommendation:

- 1. Hold a public hearing to receive comments on the proposed Resolution No. 2020-7-13; and
- 2. After closing the public hearing:
- a. Adopt Resolution No. 2020-7-13, certifying the Final Subsequent Environmental Impact Report, including the Mitigation Monitoring and Reporting Program, and the Findings of Fact and Statement of Overriding Considerations for the 2020 Optimum Basin Management Program Update; and
- b. Authorize the Filing of Notice of Determination with the County Clerk and State Clearinghouse, Governor's Office of Planning and Research.

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

Account/Project Name:

Not applicable.

Fiscal Impact (explain if not budgeted):

Costs are borne by Chino Basin Watermaster. There is no fiscal impact to IEUA for adoption/certification of the SEIR.

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

Prior Board Action:

On July 12, 2000, the IEUA Board approved the OBMP PEIR. On May 21, 2008, the IEUA Board approved the Addendum to the OBMP PEIR and the Facilities Master Plan PEIR. On June 19, 2019, the IEUA Board adopted Resolution No. 2019-6-12, supporting the timely completion of the 2020 OBMP Update.

Environmental Determination:

Subsequent Environmental Impact Report

The SEIR package includes: Final Subsequent Environmental Impact Report (SEIR) for the OBMP Update, Responses to Comments, Mitigation Monitoring and Reporting Program, Findings of Fact and Statement of Overriding Considerations, and all other materials in the administrative record.

Business Goal:

The adoption of the Resolution is consistent with IEUA's Business Goals of Water Reliability by ensuring the sustainable production of groundwater in the region and Environmental Stewardship by ensuring projects will be implemented in accordance with federal, state, and local environmental laws.

Attachments:

Attachment 1 - SEIR Adoption Presentation 2020-07-15

Attachment 2 - Resolution No. 2020-7-13

Attachment 3 - Final OBMP Update Subsequent Environmental Impact Report

(https://www.ieua.org/obmpu-ceqa/)

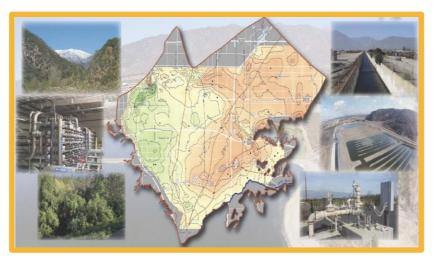
Attachment 4 - Mitigation Monitoring and Reporting Program

Attachment 5 - Findings of Fact and Statement of Overriding Considerations

Board-Rec No.: 20153

2020 OBMP Update Final Subsequent Environmental Impact Report











Background

2020 Optimum Basin Management Program Update (OBMPU)

- Led by Chino Basin Watermaster in collaboration with Basin stakeholders
- Goals remain the same: enhance basin water supplies, water quality, basin management and equitably finance the OBMP
- Addresses new water management challenges, protects stakeholders' collective interests and maintains water supply reliability

OBMPU Subsequent Environmental Impact Report (SEIR)

- Evaluates impacts of the activities covered by OBMPU
- Positions the Region to pursue new funding opportunities
- Prepared by Tom Dodson & Associates with IEUA as lead agency



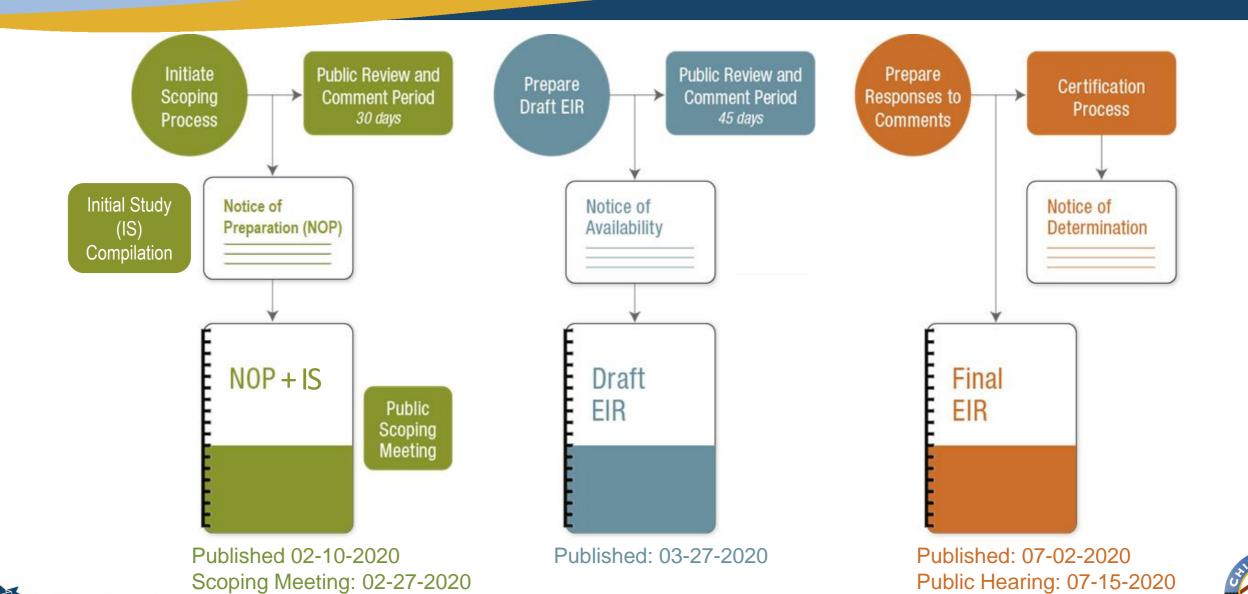






OBMPU CEQA Process

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT



Draft SEIR Findings

The Draft SEIR impact analysis found three CEQA topics with potential for significant impacts:

- <u>Biological Resources:</u> Individual OBMPU facilities may be developed and have operations within an area containing biological resources that cannot be avoided, even at the design level
- <u>Greenhouse Gas (GHG):</u> Despite implementation of mitigation measures designed to reduce greenhouse gas emissions, the combined envisioned projects of the OBMPU would still exceed the South Coast Air Quality Management District (SCAQMD) screening thresholds
- <u>Utilities and Service Systems</u>: Significant GHG emissions may result from the potential construction of water-related infrastructure

Mitigation measures reduce impacts to a less than significant level for the remaining topics

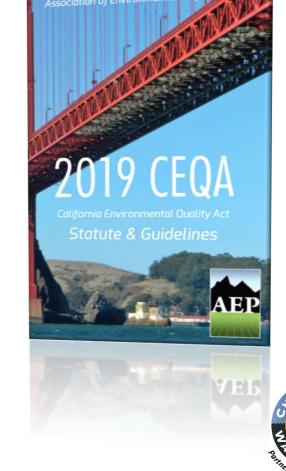




Draft SEIR Comments

IEUA received seven written comment letters during the 45-day Draft SEIR public review period

- 1. City of Ontario
- 2. California Department of Fish and Wildlife (CDFW)
- 3. Monte Vista Water District (MVWD)
- 4. San Bernardino County Department of Public Works
- 5. Orange County Water District (OCWD)
- 6. Riverside County Flood Control and Water Conservation District
- 7. State of California Department of Justice (SCDOJ)





Response to Comments: Primary Concerns

- City of Ontario & MVWD requested that the Storage Management Plan (SMP) be reviewed separately from the OBMPU
 - Response: An SMP Alternative review has been provided in the Final SEIR
- City of Ontario requested verification of the hydrology model used for the Hydrology and Water Quality topic analysis
 - Response: Wildermuth Environmental provided a technical memorandum which found that an updated model would result in the same impact conclusions under the Hydrology and Water Quality section.
 - Numerous additional comments from the City of Ontario regarding the Draft SEIR are also addressed in the Response to Comments.





Response to Comments: Primary Concerns

- CDFW stated the mitigation in the Draft SEIR was not specific
 - Response: Several mitigation measures were modified for clarity. Concerns over surface water diversions, including recycled water use, were addressed in several comment letters, and a detailed response has been provided in the Response to Comments.





Response to Comments: SEIR Revisions

The Final SEIR package includes the Responses to Comments, Mitigation Monitoring and Reporting Program (MMRP) and the Final SEIR, which has been modified as follows when compared to the Draft SEIR:

- 1. In response to MVWD and City of Ontario comment letters, a Storage Management Plan Only Alternative (Reduced Project Scope) was added to the Final SEIR.
 - Analyzed only components that met the goals of OBMPU Program Elements 8 and 9
 - Concluded that the Alternative would result in less significant environmental impacts but would not meet the core OBMPU objectives and is therefore infeasible





Response to Comments: SEIR Revisions

- 2. The Final SEIR contains clarifying edits to nearly all the mitigation measures to ensure that they are enforceable and comprehensible to the Implementing Agencies utilizing them in the future.
- 3. The Final SEIR contains clarifying edits to the Air Quality, Greenhouse Gas, and Energy Chapters to explain why operational emissions were not modeled.
- 4. The Final SEIR contains clarifying edits to the Project Description in response to comments by the City of Ontario. The Final SEIR states that no portion of the OBMPU prevents the future substitution of new sources of supply to meet the beneficial use requirements that currently receive recycled water.





Response to Comments: SEIR Revisions

- 5. The Final SEIR contains clarifying edits to the Hydrology and Water Quality chapter to explain that the results provided in the SEIR based on the 2017 version of the model, would not change under the 2020 update of the model.
- 6. The Final SEIR contains two new Appendices:
 - The Storage Framework Investigation (SFI)
 - Safe Yield Recalculation





Statement of Overriding Considerations

The proposed CEQA Findings of Fact and Statement of Overriding Considerations demonstrate that the benefits of adopting the OBMPU acceptably override potential unavoidable significant impacts. The benefits are (slide 1 of 2):

- Sustainable Water Supply
- Chino Desalter Program Expansion
- Maintain Hydraulic Control
- Climate Change Planning
- Expanded Water and Recycled Water Delivery, and Brine Waste Collection
- Maximum Benefit Objectives
- Creation of New Permanent Jobs
- Enable Management of Existing and Emerging Contaminants of Concern
- Economic Expansion
- Regional Benefits





Statement of Overriding Considerations

The proposed CEQA Findings of Fact, and Statement of Overriding Considerations demonstrate that the benefits of adopting the OBMPU acceptably override potential unavoidable significant impacts. The benefits are (slide 2 of 2):

- Leveraging unused storage space in the basin reduces reliance on imported water and may provide outside funding sources to implement the OBMPU and improves water quality through the recharge of high-quality water.
- Regional conveyance will support management of groundwater levels to reduce the
 potential for subsidence and ground fissuring and will enable an increase of
 production in areas currently constrained by poor water quality.
- The monitoring program ensures full compliance with regulatory requirements, ensures full support of basin management initiatives, and enables stakeholders to monitor the performance of the OBMPU.



SEIR Certification

- Final SEIR is a comprehensive document that fully addresses all comment letters received and meets CEQA requirements
 - Responses to Comments were provided to all commenting parties 10 days prior to this Public Hearing pursuant to CEQA
- CEQA Findings of Fact, and Statement of Overriding Considerations demonstrate that the benefits of adopting the OBMPU acceptably override potential unavoidable significant impacts
- Certification of the <u>OBMPU Final SEIR</u>, and Adoption of the <u>Mitigation Monitoring and</u>
 <u>Reporting Program</u>, <u>CEQA Findings of Fact</u>, and <u>Statement of Overriding Considerations</u>
 reflects the Board's approval of the potential OBMPU activities as presented in the
 environmental review process





Recommendation

- 1. Hold a public hearing to receive comments on the proposed Resolution No. 2020-7-13; and
- 2. After closing the public hearing:
 - a. Adopt Resolution No. 2020-7-13, certifying the Final Subsequent Environmental Impact Report, including the Mitigation Monitoring and Reporting Plan, and the Findings of Fact and Statement of Overriding Considerations, for the 2020 Optimum Basin Management Program Update; and
 - b. Authorize the Filing of Notice of Determination with the County Clerk and State Clearinghouse, Governor's Office of Planning and Research.

The adoption of the Resolution is consistent with *IEUA's Business Goals* of *Water Reliability* by ensuring the sustainable production of groundwater in the region and *Environmental Stewardship* by ensuring projects will be implemented in accordance with all federal, state, and local environmental laws.



RESOLUTION NO. 2020-7-13

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE INLAND EMPIRE UTILITIES AGENCY*, SAN BERNARDINO COUNTY, CALIFORNIA, CERTIFYING THE FINAL SUBSEQUENT ENVIRONMENTAL IMPACT REPORT FOR THE 2020 UPDATE OF THE CHINO BASIN OPTIMUM BASIN MANAGEMENT PROGRAM AND ADOPTING A MITIGATION MONITORING AND REPORTING PROGRAM, CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) FINDINGS OF FACT, AND A STATEMENT OF OVERRIDING CONSIDERATIONS

WHEREAS, the California Environmental Quality Act (CEQA) of 1970, as amended, requires that prior to approval of any project, the Lead Agency shall consider the potential impacts and effects of said project, consider alternatives to the project, and identify mitigation measures necessary to reduce or eliminate the impact of the project on the environment; and

WHEREAS, the Inland Empire Utilities Agency (IEUA) served as the Lead Agency for the 2000 Optimum Basin Management Program (OBMP) and had caused to be prepared a Program Environmental Impact Report (PEIR) for the OBMP that was certified and adopted on July 12, 2000, in accordance with CEQA and its implementing guidelines; and

WHEREAS, the IEUA serves as the Lead Agency for the 2020 Optimum Basin Management Program Update (OBMPU) and has caused to be prepared a Subsequent Environmental Impact Report (SEIR), for the evaluation of possible future program activities as envisioned in the OBMPU, in accordance with CEQA and its implementing guidelines; and

WHEREAS, the IEUA prepared and circulated a Notice of Preparation (NOP) to the public, responsible agencies and other interested parties for their review and comment on February 10, 2020, pursuant to CEQA Guidelines Section 15082; and

WHEREAS, pursuant to comments received on the scope and content of the SEIR in response to the NOP document, IEUA prepared and circulated a Draft SEIR assessing the project's environmental impact for public review; and

WHEREAS, IEUA issued the Notice of Completion (NOC) for the Draft SEIR on March 27, 2020 and the Draft SEIR was available for public review and comment from March 27, 2020 through May 11, 2020; and

WHEREAS, IEUA received seven (7) letters with comments and concerns regarding the content of the Draft SEIR for the OBMPU;

- WHEREAS, the Draft SEIR determined that the majority of potential adverse environmental impacts are either less than significant without mitigation or can be reduced to a level of less than significant with mitigation, including the following: Aesthetics, Agriculture and Forestry Resources, Air Quality, Cultural Resources, Energy, Geology and Soils, Hazards and Hazardous Materials, Hydrology and Water Quality, Land Use and Planning, Mineral Resources, Noise, Population and Housing, Public Services, Recreation, Transportation, Tribal Cultural Resources, and Wildfire; and
- **WHEREAS**, the Draft SEIR for the OBMPU identified potentially significant adverse environmental impacts relating to Biological Resources, Greenhouse Gas, and Utilities and Service Systems that have been assessed in the Statement of Overriding Considerations; and
- **WHEREAS**, IEUA has identified, considered, and disclosed project alternatives that could feasibly accomplish most of the basic objectives of the project, pursuant to CEQA Guidelines Section 15126.6; and
- **WHEREAS**, pursuant to comments received on the Draft SEIR, IEUA has revised mitigation measures in the Final OBMPU SEIR that have been deemed equivalent or more effective in mitigating potentially significant environmental impacts that in itself will not cause any potentially significant environmental impacts; and
- **WHEREAS**, IEUA provided a copy of the Responses to Comments to all Responsible Agencies on July 2, 2020, in accordance with CEQA Guidelines Section 15088; and
- **WHEREAS**, the Final OBMPU SEIR will be available for use as the base environmental document by any Responsible Agency proceeding to implement future site-specific projects under the OBMPU in accordance with programmatic procedures outlined in the State CEQA Guidelines Sections 15162, 15163, and 15168; and
- WHEREAS, the IEUA Board has received and has reviewed the Final OBMPU SEIR, consisting of the Draft SEIR, all Responses to Comments, and the Mitigation Monitoring and Reporting Program, the CEQA Findings of Fact and Statement of Overriding Considerations, and all other material in the administrative record; and
- **WHEREAS**, the Final OBMPU SEIR was prepared, published, circulated, reviewed, and completed in accordance with the requirements of CEQA and the CEQA Guidelines and constitutes an adequate, accurate, objective, and complete Final OBMPU SEIR in accordance with the requirements of CEQA and the CEQA Guidelines; and
- **WHEREAS**, the Final OBMPU SEIR reflects the independent judgment and analysis of the IEUA Board; and

Resolution No. 2020-7-13 Page 3

WHEREAS, the Final OBMPU SEIR reflects the best efforts of the IEUA Board to undertake all reasonably feasible and prudent actions to discover, analyze, disclose, and mitigate all potentially significant environmental impacts of the specific structures and facilities identified in the Final OBMPU SEIR; and

WHEREAS, pursuant to duly given public notice, the IEUA Board has held a full and fair public hearing on July 15, 2020 concerning the Final OBMPU SEIR and has considered all written and oral comments and testimony relating thereto and is fully advised thereon.

NOW, THEREFORE, LET BE IT RESOLVED, DETERMINED AND ORDEREDBY THE INLAND EMPIRE UTILITIES AGENCY AS FOLLOWS:

Section 1. A full and fair public hearing having been held on the Final SEIR prepared in connection with the OBMPU and completed in compliance with CEQA, as stated in the recitals herein, the IEUA hereby approves and certifies the Final SEIR for the OBMPU as before the IEUA Board at this time, which incorporates the written comments incorporated herein by reference, and all as more fully described in the Final SEIR, and adopts the Mitigation Monitoring and Reporting Program (Exhibit A), and CEQA Findings of Fact and Statement of Overriding Considerations (Exhibit B).

The Final SEIR's evaluation of the OBMPU reflects the Board of Directors' independent judgment and analysis based on the Board of Directors' review of the entirety of the administrative record, which record provides the information upon which this resolution is based and which the Board of Directors reviewed and considered prior to approving the project.

Section 2. IEUA hereby authorizes and directs the filing and posting of a Notice of Determination (NOD) as required by Section 21152 of the Public Resources Code, and that filing required pursuant to Section 21092 of the Public Resources Code by the IEUA General Manager with the Clerk of the Board of San Bernardino County, Los Angeles County Clerk, Riverside County Clerk, and the State Clearinghouse, Governor's Office of Planning and Research, as soon as possible following the adoption of this Resolution.

Section 3. IEUA hereby adopts the mitigation measures recommended as conditions of project approval in Sections 1 and 4 of the Final OBMPU SEIR, and the Mitigation Monitoring and Reporting Program prepared for the purpose of monitoring the changes which have been adopted or made a condition of project approval as described in Section 1 of this Resolution and all as more fully described in the Mitigation Monitoring and Reporting Program.

Section 4. This Resolution shall take effect upon adoption.

| Resolution No. | 2020-7-13 |
|----------------|-----------|
| Page 4 | |
| | |

ADOPTED this 15th day of July 2020.

Kati Parker
President of the Inland Empire
Utilities Agency* and of the
Board of Directors thereof

ATTEST:

Steven J. Elie Secretary/Treasurer of the Inland Empire Utilities Agency* and of the Board of Directors thereof

*A Municipal Water District

| Page 5 | |
|---|--|
| STATE OF CALIFORNIA |)) SS |
| COUNTY OF SAN BERNARDINO | |
| I, Steven J. Elie, Secretary/Treas | surer of the Inland Empire Utilities Agency*, DO |
| HEREBY CERTIFY that the foregoing F | Resolution being No. 2020-7-13, was adopted at |
| a regular Board Meeting on July 15, 202 | 20, of said Agency* by the following vote: |
| | |
| AYES: | |
| NOES: | |
| ABSTAIN: | |
| ABSENT: | |
| : | |
| | |
| | Steven J. Elie Secretary/Treasurer of the Inland Empire Utilities Agency* and of the Board of Directors thereof |
| | |
| | |
| (SEAL) | |
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| | |
| *A Municipal Water District | |

OBMPU MITIGATION MONITORING AND REPORTING PROGRAM

INITIAL STUDY MITIGATION MEASURES

| | Mitigation Measure | Implementation Schedule | Verification |
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| Aestheti AES-1: | Proposed facilities shall be designed in accordance with local design standards and integrated with local surroundings. Landscaping shall be installed in conformance with local landscaping design guidelines as appropriate to screen views of new facilities and to integrate facilities with surrounding areas. | The measure shall be incorporated into individual project design specifications, which shall be included in the construction contract as a contract specification and implemented by the contractor during construction. | A copy of the construction contract including this aesthetic mitigation measure shall be retained in the project file(s). Verification of implementation shall be based on field inspections by the Implementing Agency. ¹ Field notes documenting verification shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Aestheti | ics | | |
| AES-2: | The Mills Wetland Storage Basin Project shall be designed to include landscaping commensurate with the existing pastoral setting that exists at this site at present. The Implementing Agency shall utilize existing photos of the Mills Wetlands prior to construction to develop a landscape plan that the Implementing Agency and/or Watermaster deem acceptable as "commensurate with the existing pastoral setting." | The measure shall be incorporated into individual project design specifications, which shall be included in the construction contract as a contract specification and implemented by the contractor during construction. | A copy of the construction contract including this aesthetic mitigation measure shall be retained in the project file(s). The landscape plan shall also be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes documenting verification shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

¹ "Implementing Agency" as used throughout this Mitigation Monitoring and Reporting Program refers to the lead agency implementing a project under the Optimum Basin Management Program Update (e.g., the Inland Empire Utilities Agency (IEUA), Chino Basin Watermaster (Watermaster), or Watermaster Stakeholders).

| | Mitigation Measure | Implementation Schedule | Verification |
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| Aesthetic AES-3: | Future regional groundwater treatment facilities and other proposed facilities defined within the OBMPU at unknown locations shall either (1) Be located outside of scenic viewsheds identified in the General Plan or Municipal Code corresponding to a proposed location for a future facility, or (2) Undergo subsequent CEQA documentation to assess potential impacts from locating a future facility in an area that may contain scenic resources. | When groundwater treatment facilities and other proposed facilities defined within the OBMPU are being considered, the agency implementing the facility shall conduct the required evaluation of interference with locally identified scenic viewsheds prior to final site selection. Where scenic viewsheds cannot be avoided, any subsequent CEQA evaluation shall be prepared and processed prior to final site selection by the Implementing Agency. | The scenic viewshed evaluation shall be retained in the project file. Where a CEQA document is prepared and processed, a copy of the environmental document shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Aestheti | cs | | |
| AES-4: | Should the removal of trees be required for a specific project, the Implementing Agency shall comply with the local jurisdiction's tree ordinance, municipal code, or other local regulations. If no tree ordinance exists within the local jurisdiction, and a project will remove healthy trees as defined by a qualified arborist, (1) the Implementing Agency shall replace all trees removed at a 1:1 ratio, and (2) The specific location selected for a well shall avoid rock outcroppings and other scenic resources as defined in CEQA Guidelines Appendix G. If this cannot be accomplished a second tier CEQA evaluation shall be completed. | The measure shall be incorporated into individual project design specifications, which shall be included in the construction contract as a contract specification and implemented by the contractor during construction. Where required, the subsequent CEQA documentation shall be prepared prior to initiation of construction. | Where a CEQA document is prepared and processed, a copy of the environmental document shall be retained in the project file. A copy of the construction contract including this aesthetic mitigation measure shall be retained in the project file(s). Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes documenting verification shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
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| | Mitigation Measure | Implementation Schedule | Verification |
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| Aestheti | ics | | |
| AES-5: | Future proposed facilities defined within the OBMPU at unknown locations shall either (1) Be located within sites that avoid rock outcroppings and other scenic resources as defined in CEQA Guidelines Appendix G, or (2) Undergo subsequent CEQA documentation to assess potential impacts from locating a future facility in an area that may contain scenic resources. | When sites for OBMPU facilities are being considered, the agency implementing the facility shall conduct the required evaluation of conflict with locally identified scenic resources prior to final site selection. Where scenic resources cannot be avoided, any subsequent CEQA evaluation shall be prepared and processed prior to final site selection by the Implementing Agency. | The scenic resources evaluation shall be retained in the project file. Where a CEQA document is prepared and processed, a copy of the environmental document shall be retained in the project file. Field notes documenting the scenic resources evaluation shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
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| | Mitigation Measure | Implementation Schedule | Verification |
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| Aesthetic | cs OBMPU facility implementation will conform with design requirements | The measure shall be incorporated into | A copy of the construction contract including |
| ALC C. | established in the local jurisdiction planning documents, including but not limited to the applicable zoning code, except where such requirements conflict with the purpose or function of such facilities compliance is not required by California law. | individual project design specifications, which shall be included in the construction contract as a contract specification and implemented by the contractor during construction. | locally consistent design requirements shall be retained in the project file(s). Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes documenting verification shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Aestheti AES-7: | When OBMPU aboveground facilities are constructed in the future, the local agency design guidelines for the project site shall be followed to the extent that they do not conflict with the engineering and budget constraints established for the facility and except where such compliance is not required by California law. | When future OBMPU aboveground facilities are being considered, the agency implementing the facility shall conduct the required evaluation of local design guidelines prior to approval of final design. The local design guidelines shall be incorporated into individual project design specifications, which shall be included in the construction contract as a contract specification and implemented by the contractor during construction. | The local design guideline evaluation shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes documenting verification shall be retained in the project file. |
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| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Aesthetic AES-8: | Future OBMPU projects shall implement at least the following measures, unless they conflict with the local jurisdiction's light requirements, in which case the local jurisdiction's requirements shall be enforced: • Use of low-pressure sodium lights where security needs require such lighting to minimize impacts of glare; Projects within a 45-mile radius of the Mount Palomar Observatory and located within Riverside County must adhere to special standards set by the County of Riverside relating to the use of low-pressure sodium lights. • The height of lighting fixtures shall be lowered to the lowest level consistent with the purpose of the lighting to reduce unwanted illumination. • Directing light and shielding shall be used to minimize off-site illumination. • No light shall be allowed to intrude into sensitive light receptor areas. | The measure shall be incorporated into individual project design specifications, which shall be included in the construction contract as a contract specification and implemented by the contractor during construction. | A copy of the construction contract including this aesthetic mitigation measure shall be retained in the project file(s). Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes documenting verification shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Agriculto AGF-1 | ure and Forestry Resources For all proposed facilities in the southern portion of the Chino Basin | The measure shall be incorporated into | The agency proposing a new OBMPU facility |
| | (south of SH 60), the potential for impact to Important Farmlands (Prime Farmland, Farmland of Statewide Importance, or Unique Farmland) shall be determined prior to final site selection. If important farmland cannot be avoided and individually exceeds 5 acres or cumulatively exceeds 10 acres of important farmland lost to agricultural production over the life of the program, the agency implementing the project shall purchase-provide compensatory mitigation in the form of comparable important farmland permanently conserved in either a local or State- approved important farmland mitigation bank at a mitigation ratio of 1:1. The acquisition of this compensatory mitigation shall be completed within one year of initiating construction of the proposed facility and verification shall be documented with the Chino Basin Watermaster. | individual project design specifications. Where applicable, compensatory mitigation shall be acquired within one year of initiating construction of the proposed facility. | in the southern Chino Basin shall submit important farmland documentation to the Watermaster prior to initiating construction. If mitigation is required, a copy of the compensatory mitigation certification shall be retained in the project file(s) and made available to the Watermaster. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Agricultu AGF-2 | For all proposed facilities in the southern portion of the Chino Basin (south of SH 60), the potential for impact to Important Farmlands (Prime Farmland, Farmland of Statewide Importance, or Unique Farmland) shall be determined prior to final site selection. If Important Farmland cannot be avoided and individually exceeds 5 acres or cumulatively exceeds 10 acres of Important Farmland lost to agricultural production over the life of the program, the agency implementing the project shall relocate and avoid the site, or alternatively the agency shall conduct a California Land Evaluation and Assessment (LESA) model evaluation. If the evaluation determines the loss of Important Farmland will occur, the agency shall purchase provide compensatory mitigation in the form of comparable Important Farmland permanently conserved in either a local or State-approved Important Farmland mitigation bank at a mitigation ratio of 1:1. The acquisition of this compensatory mitigation shall be completed within one year of initiating construction of the proposed facility and verification shall be documented with the Chino Basin Watermaster. | Potential impacts to important farmlands shall be determined prior to final site selection. The measure shall be incorporated into individual project design specifications. The LESA shall be prepared prior to construction. Where applicable, compensatory mitigation shall be acquired within one year of initiating construction of the proposed facility. | The agency proposing a new OBMPU facility in the southern Chino Basin shall submit important farmland documentation to the Watermaster prior to initiating construction. If mitigation is required, a copy of both the LESA and the compensatory mitigation certification shall be retained in the project file(s). |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Agricultu AGF-3 | For all proposed facilities that may impact riparian woodland/forest land in the portion of the Chino Basin (SH 60), the potential for impacts to riparian woodland/forest land shall be determined prior to final site election. If important forest land cannot be avoided and permanently will exceed 5 acres in area, the agency implementing the project shall relocate and avoid the site, or alternatively the agency shall conduct an evaluation to determine if it qualifies with the State definition of "forest land." If the evaluation determines the permanent loss of important forest land will occur, the agency shall purchase provide compensatory mitigation in the form of comparable forest land permanently conserved in either a local or State-approved important forest land mitigation bank at a mitigation ratio of 1:1. Alternatively, the agency may carry out a forest land creation program at a 1:1 ratio for comparable woodland. The acquisition or creation of this compensatory mitigation shall be completed/initiated within one year of initiating construction of the proposed facility and verification shall be documented with the Chino Basin Watermaster. | The potential for impacts to riparian woodland/forest land shall be determined prior to final site selection. The measure shall be incorporated into individual project design specifications. Where applicable, compensatory mitigation shall be acquired, in accordance with the measures schedule. | The agency proposing a new OBMPU facility in the southern Chino Basin shall submit important farmland documentation to the Watermaster prior to initiating construction. If mitigation is required, a copy of the compensatory mitigation certification shall be retained in the project file(s). |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Geology GEO-1 | If a specific project is proposed within a designated Alquist-Priolo Fault Zone, the facility shall be relocated, if possible. If relocation is not possible, the project shall be designed in accordance with the California Building Code (CBC) and according to the recommendations generated by a project specific geotechnical study. If the project specific geotechnical study cannot mitigate potential seismic related impacts, then a second tier CEQA evaluation shall be | Where applicable, the geotechnical study shall be completed prior to completion of final design, as should the subsequent CEQA documentation, if required. The measures generated in the geotechnical investigation shall be incorporated into individual project design specifications, which shall be included | A copy of the geotechnical investigation shall be retained in the project file. Where applicable, a copy of the subsequent CEQA documentation for the individual project shall be retained in the project file. A copy of the construction contract including this geology/soils mitigation measure shall be |
| | completed. | in the construction contract as a contract specification and implemented by the contractor during construction. | retained in the project file(s). Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes documenting verification shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Geology GEO-2 | and Soils Prior to construction of each improvement, a design-level geotechnical investigation, including collection of site-specific subsurface data, if appropriate, shall be completed. The geotechnical evaluation shall identify all potential seismic hazards including fault rupture, and characterize the soil profiles, including liquefaction potential, expansive soil potential, subsidence, and landslide potential. The geotechnical investigation shall recommend site-specific design criteria to mitigate for seismic and non-seismic | The geotechnical study shall be completed prior to completion of facility design. The measures generated in the geotechnical investigation shall be incorporated into individual project design specifications, which shall be included in the construction contract as a contract specification and implemented by the contractor during construction. | A copy of the geotechnical investigation shall be retained in the project file(s). A copy of the construction contract including this geology/soils mitigation measure shall be retained in the project file(s). Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes documenting verification shall be |
| | hazards, such as special foundations and structural setbacks, and these recommendations shall be incorporated into the design of individual proposed projects. | | retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Geology GEO-3: | For each well development or other OBMPU project that is less than one acre in size requiring ground disturbing activities such as grading, the Implementing Agency shall identify best management practices (BMPs, such as hay bales, wattles, detention basins, silt fences, coir rolls, etc.) to ensure that the discharge of the storm runoff from the construction site does not cause erosion downstream | The BMPs identified pursuant to this measure, and the requirement that substantial erosion or sedimentation be restored to pre-discharge conditions shall be included in the construction contract as a contract specification and implemented by the contractor | A copy of the construction contract including this geology/soils mitigation measure shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes documenting verification shall be |
| | of the discharge point. If any substantial erosion or sedimentation occurs as a result of discharging storm water from a project construction site, any erosion or sedimentation damage shall be restored to pre-discharge conditions. | during construction. | retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Geology | and Soils | | |
| GEO-4: | For project-level development involving ground disturbance, a qualified paleontologist shall be retained to determine the necessity of conducting a study of the project area(s) based on the potential sensitivity of the project site for paleontological resources. If deemed necessary, the paleontologist shall conduct a paleontological resources inventory designed to identify potentially significant resources. The paleontological resources inventory would consist of: a paleontological resource records search to be conducted at the San Bernardino County Museum and/or other appropriate facilities; a field survey or monitoring where deemed appropriate by the paleontologist; and recordation of all identified paleontological resources. Treatment of any discovered paleontological resources shall follow the Phasing and corresponding actions identified under MM CUL-2. | The paleontologist shall be retained and the recommendation to conduct a study shall be completed prior to site selection and any study shall be completed prior to initiating construction. Any recordation of identified paleontological resources shall occur during construction. Any reports documenting management and findings for accidentally exposed resources shall be completed within one year of the discovery. | A copy of the site paleontological evaluation shall be retained in the project file. A copy of initial findings shall be provided to the Watermaster or Watermaster Stakeholders/Implementing Agencies and retained in the project file(s). A copy of the final report shall be retained in the project file(s). |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Hazards | and Hazardous Materials | | |
| HAZ-1: | For OBMPU facilities that handle hazardous materials or generate hazardous waste, the Hazardous Materials Business Plan prepared and submitted to the Certified Unified Program Agency shall incorporate best management practices designed to minimize the potential for accidental release of such chemicals Materials Business Plans . The facility managers shall implement these measures to reduce the potential for accidental releases of hazardous materials or wastes. The Hazardous Materials Business Plan shall be approved prior to operation of the given facility. | The Business Plan shall be completed prior to operation of an individual facility. | A copy of the Business Plan shall be retained in the project file and shall be submitted to the City or County for their records. This Plan shall be retained at the Project site and made available to employees working at the facility. Site inspections shall be performed to ensure compliance with the best management practices outlined in the Business Plan. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Hazards | and Hazardous Materials | | |
| HAZ-2: | The <u>Hazardous Materials</u> Business Plan shall assess the potential accidental release scenarios and identify the equipment and response capabilities required to provide immediate containment, control and collection of any released <u>hazardous</u> material. <u>Adequate funding shall be provided to acquire the Prior to issuance of the certificate of occupancy, each facility shall satisfy the Implementing Agency that necessary equipment, <u>has been installed and</u> train<u>ing of personnel has occurred</u> in responses and to obtain sufficient resources to control and prevent the spread of any accidentally released hazardous or toxic materials.</u> | The Business Plan shall be completed prior to operation of an individual facility. | A copy of the Business Plan shall be retained in the project file. This Plan shall be retained at the Project site and made available to employees working at the facility. Site inspections shall be performed to ensure adequate equipment has been provided and personnel have been adequately trained in accordance with the Business Plan. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Hazards HAZ-3: | and Hazardous Materials For the Prior to issuing the certificate of occupancy for any storage of any acutely hazardous material at an OBMPU facility, such as chlorine gas, modeling of pathways of release and potential exposure of the public to any released material shall be completed and specific measures, such as secondary containment, shall be implemented to the satisfaction of the Implementing Agency to ensure that sensitive receptors will not be exposed to significant health threats based on the toxic substance involved. | The modeling shall be completed prior to operation of a given proposed facility and measures to protect sensitive receptors implemented during construction. | A copy of the results of the modeling and any measures developed to minimize accidental exposure to hazardous materials shall be retained in the Project file. Site inspections shall be performed to ensure the proper procedures pertaining to storage and handling of acutely hazard waste are adhered to. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Hazards HAZ-4: | and Hazardous Materials All hazardous contaminated material shall be delivered to a licensed treatment, disposal or recycling facility that has the appropriate systems to manage the contaminated material without significant impact on the environment and be disposed of in accordance with California and federal law. | This measure shall be included in the construction contract as a contract specification and implemented by the contractor during construction. Additionally, this measure shall be implemented ongoing during operation. | A copy of the construction contract including this hazards mitigation measure shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes documenting verification shall be |
| | | | retained in the project file. During operations, records shall be kept documenting all hazardous waste disposal and site inspections by the Implementing Agency shall be performed to ensure adherence to this measure. |
| | | Responsible Party | Status / Date / Initials |
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| | Mitigation Measure | Implementation Schedule | Verification |
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| Hazards | and Hazardous Materials | | |
| HAZ-5: | Before determining that an area contaminated as a result of an accidental release is fully remediated, specific thresholds of acceptable clean-up shall be established and sufficient samples shall be taken within the contaminated area to verify that these clean-up thresholds have been met in compliance with state and federal law. | This measure shall be implemented following an accidental spill of any hazardous material at an OBMPU facility. | A copy of the specific threshold used for a spill shall be retained in the project file, and a copy of the sample test data verifying cleanup of the site shall also be retained in the project file. |
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| | Mitigation Measure | Implementation Schedule | Verification |
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| Hazards | and Hazardous Materials | | |
| HAZ-6: | Vector management plans shall be prepared and use of pesticides shall be reviewed and coordinated with the West Valley Mosquito and Vector Control District for approval prior to implementing vector control at any of the new or expanded storage basins. All pesticides shall be applied in accordance with State and label requirements to minimize potential for residual concentrations that may be considered adverse to public health and water quality. | This measure shall be included in the O&M contract as a contract specification and implemented by the contractor during vector control activities. Additionally, the Vector Management Plans shall be completed prior to operation of an individual facility. | A copy of the Vector Management Plans shall be retained in the project file(s). The Implementing Agency shall retain copies of correspondence with vector control agencies. Site inspections by the Implementing Agency shall be performed to ensure adherence to this measure. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Hazards HAZ-7: | All accidental spills or discharge of hazardous material during construction activities shall be reported to the County Fire Department Certified Unified Program Agency and shall be remediated in compliance with applicable state and local regulations regarding cleanup and disposal of the contaminant released. The contaminated waste will be collected and disposed of at an appropriately a licensed disposal or treatment facility. This measure shall be incorporated into the SWPPP prepared for each future facility developed under the OBMPU PEIR SEIR. Prior to accepting the site as remediated, the area contaminated shall be tested to verify that any residual concentrations meet the standard for future residential or public use of the site. | This measure shall be included in the construction contract as a contract specification and implemented by the contractor during construction, and shall be included as a measure in the SWPPP. | A copy of the SWPPP and construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes documenting verification shall be retained in the project file. |
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| | Mitigation Measure | Implementation Schedule | Verification |
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| Hazards | and Hazardous Materials | | |
| HAZ-8: | Prior to final site selection for future OBMPU facilities, the Implementing Agency shall obtain a Phase I Environmental Site Assessment (ESA) for the selected site. If a site contains contamination the agency shall either avoid the site by selecting an alternative location or shall remove any contamination (remediate) at the site to a level of concentration that eliminates hazard to employees working at the site and that will not conflict with the installation and future operation of the facility. For sites located on agricultural land, this can include soil contaminated with unacceptable concentrations of pesticides or herbicides that shall be remediated through removal or blending to reduce concentrations below thresholds of significance established for the particular pesticide or herbicide in compliance with California and federal law. | The Phase I shall be completed prior to initiation of construction. Where applicable, site remediation shall be included as part of the construction contract for each individual project. | A copy of the Phase I shall be retained in the project file(s). A copy of the construction contract including this hazards mitigation measure shall be retained in the project file(s). Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes documenting verification shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Hazards HAZ-9: | and Hazardous Materials Should an unknown contaminated site be encountered during construction of OBMPU facilities, all work in the immediate area shall cease; the type of contamination and its extent shall be determined; and the local CUPA Certified Unified Program Agency and other regulatory agencies (such as the DTSC or Regional Board) shall be | This measure shall be included in the construction contract as a contract specification and implemented by the contractor during construction. | A copy of the construction contract including this hazards mitigation measure shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. |
| | notified. Based on investigations of the contamination, the site may be closed and avoided or the contaminant(s) shall be remediated to a threshold acceptable to the Certified Unified Program Agency CUPA or other regulatory agency threshold and any contaminated soil or other material shall be delivered to an authorized treatment or disposal site. | | Field notes documenting verification shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

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| | and Hazardous Materials | | |
| HAZ-10: | Prior to finalizing site selection of an OBMPU facility with in an airport safety zone, input from the affected airport management entity shall be solicited. For projects within airport safety zones, facility design shall follow the guidelines of the appropriate airport land use compatibility plan to the extent feasible. If legitimate safety hazards are a potential conflict with an airport land use compatibility plan is identified, the Implementing Agency shall relocate the facility outside the area of conflict if feasible, or if the site is deemed essential, the Implementing Agency shall propose an alternative design that reduces any conflict to a less than significant level of conflict. As an example, a pump station or reservoir could be installed below ground instead of above ground. | The input from the Airport shall be obtained prior to finalizing site selection. Specific mitigation shall be included in the construction contract as a contract specification and implemented by the contractor during construction. | A copy of the Airport input and all correspondence with Airport management agencies shall be retained in the project file. If a facility must be installed within an Airport safety zone, a copy of the construction contract including this hazards mitigation measure shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes documenting verification shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| Mitigation Measure | Implementation Schedule | Verification |
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| Hazards and Hazardous Materials HAZ-11: Prior to initiating construction of proposed facilities, the Implementing Agency shall prepare and implement a Traffic Control Plan that contains comprehensive strategies for maintaining emergency access. Strategies shall include, but are not limited to, maintaining steel trench plates at the construction sites to restore access across open trenches and identification of alternate routing around construction zones. In addition, police, fire, and other emergency service providers (Iocal agencies, Caltrans, and other service providers) shall be notified of the timing, location, and duration of the construction activities and the location of detours and lane closures. The Implementing Agency shall ensure that the Traffic Control Plan and other construction activities are consistent with the San Bernardino County Operational Area Emergency Response Plan, and are reviewed and approved by the local agency with authority over the roadways. | This measure shall be included in the construction contract as a contract specification and implemented by the contractor during construction. The Traffic Control Plan shall be developed prior to initiation of construction. | A copy of the Traffic Control Plan shall be retained in the project file(s). Verification of implementation shall be based on field inspections by the Implementing Agency. Additionally, where applicable, correspondence with Caltrans, and/or the corresponding County or City traffic management division shall be retained in the project file. |
| | Responsible Party | Status / Date / Initials |
| | Implementing Agency | |

| Mitigation Measure | Implementation Schedule | Verification |
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| Hazards and Hazardous Materials | | |
| HAZ-12: During Prior to construction of facilities located in areas designated as High or Very High Fire Hazard Severity Zones (VHFHSZs) by CAL FIRE, fire hazard reduction measures shall be implemented and incorporated into a fire management plan for the proposed facility, and shall be implemented during construction. These measures shall address all staging areas, welding areas, or areas slated for development that are planned to use spark-producing equipment. These areas shall be cleared of dried vegetation or other material that could ignite. Any construction equipment that includes a spark arrestor shall be equipped with a spark arrestor in good working order. During the construction of the project facilities, all vehicles and crews working at the project site shall to have access to functional fire extinguishers at all times. In addition, construction crews shall have a spotter during welding activities to look out for potentially dangerous situations, including accidental sparks. This plan shall be reviewed by the Implementing Agency and CALFIRE and approved prior to construction within high and very high severity zones and implemented once approved. The fire management plan shall also include sufficient defensible space or other measures at a facility site located in a high or very high fire severity area to minimize fire damage to a level acceptable to the Implementing Agency CALFIRE. Furthermore, the Counties of Riverside and San Bernardine require businesses that use or store certain quantities of hazardous materials and submit a Hazardous Materials Business Plan (HMBP) that describes the hazardous materials usage, storage, and disposal to the Certified Unified Program Agency (CUPA). Further OBMPU facilities that meet these criteria must prepare an HMBP pursuant to the applicable local agency. | The input from CAL FIRE shall be obtained and the Fire Management Plan developed prior to initiating construction. This measure shall be included in the construction contract as a contract specification and implemented by the contractor during construction. | A copy of the Fire Control Plan shall be retained in the project file(s). Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes documenting verification shall be retained in the project file. During operations, records shall be kept documenting compliance with this measure; site inspections by Implementing Agencies inspection personnel shall be performed to ensure adherence to this measure. |
| | Responsible Party | Status / Date / Initials |
| | Implementing Agency | |

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| Land Us | e / Planning | | |
| LU-1: | Following selection of sites for future OBMPU-related facilities, each site and associated facility shall be evaluated for potential incompatibility with adjacent existing or proposed land uses. Where future facility operations can create significant incompatibilities (lighting, noise, use of hazardous materials, traffic, etc.) with adjacent uses, an alternative site shall be selected, or subsequent CEQA documentation shall be prepared that identifies the specific measures that will be utilized to reduce potential incompatible activities or effects to below significance thresholds established in the general plan for the jurisdiction where the facility will be located. | Site evaluation should be completed by the Implementing Agency during site selection, prior to construction. Where applicable, subsequent CEQA documentation shall be completed prior to initiation of construction. The measures generated in the subsequent CEQA documentation shall be incorporated into individual project design specifications, which shall be included in the construction contract as a contract specification and implemented by the contractor during construction. | Correspondence related to site selection shall be retained in the project file(s). Where applicable, a copy of the subsequent CEQA documentation for the individual project shall be retained in the project file. A copy of the construction contract including any land use related measures generated by the subsequent CEQA documentation (where applicable) shall be retained in the project file(s). Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes documenting verification shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Mineral MR-1: | Resources For each new groundwater treatment facility (regionally located or near existing well sites), Flood MAR facility, and MS4 compliance sites, the Implementing Agency shall locate these facilities outside of sites designated for the extraction of or as containing significant mineral resources (such as, located within MRZ-2 zones) or otherwise identified by the local jurisdiction as containing important mineral resources (such as, designated by the local general plan as being located within a mineral extraction related land use). Where it is not feasible to locate such facilities outside of sites designated for mineral resources, a subsequent CEQA documentation shall be | Site evaluation should be completed by the Implementing Agency during site selection, prior to construction. Where applicable, subsequent CEQA documentation shall be completed prior to initiation of construction. | Correspondence related to site selection shall be retained in the project file(s). Where applicable, a copy of the subsequent CEQA documentation for the individual project shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes documenting verification shall be retained in the project file. |
| | prepared that identifies specific measures that compensate for the loss of mineral resources. | Dognovajkla Dovin | Ctatus / Data / Initials |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Noise | | | |
| NOI-1: | The Watermaster and/or-Implementing Agency shall implement the following measures during construction: Include design measures where feasible to reduce the construction noise levels if necessary to comply with local noise ordinances, or seek a variance from local noise ordinance if otherwise not feasible to comply. 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 d | This measure shall be included in the construction contract as a contract specification and implemented by the contractor during construction. | A copy of the construction contract including this noise mitigation measure shall be retained in the project file. Verification of implementation shall be based on field inspections by Watermaster and/or the Implementing Agency. Field notes documenting verification shall be retained in the project file. |

| Mitigation Measure | Implementation Schedule | Verification |
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| Construction activities shall occur within the hours considered to be acceptable for construction by the applicable jurisdiction within which an individual project is constructed, except for activities, such as well drilling which are continuous, and for emergencies. Where no such restrictions are in place that limit hours of construction, construction shall be limited to the hours of 7 AM and 6 PM on weekdays, 8 AM and 5 PM on Saturdays, and at no time shall construction activities occur on Sundays or holidays, unless a declared emergency exists. | | |
| | Responsible Party | Status / Date / Initials |
| | Implementing Agency | _ |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Noise NOI-2: | The Watermaster and/or Implementing Agency shall require that all OBMPU-related aboveground facilities that include stationary noise generating equipment (such as emergency generators, blowers, pumps, motors, etc.) to 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. | This measure shall be included in the construction contract as a contract specification and implemented by the contractor during construction. | A copy of the construction contract including this noise mitigation measure shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes documenting verification shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Noise NOI-3: | For Prior to authorizing construction activities during non-standard working hours, or hours that are not exempt from compliance with applicable City or County noise ordinances (e.g., 24-hour well drilling), the Watermaster and/or Implementing Agency will secure a noise waiver from the appropriate jurisdiction if available. | This measure shall be included in the construction contract as a contract specification and implemented by the contractor during construction. The noise waiver shall be obtained prior to construction. | A copy of the noise waiver and the construction contract including this noise mitigation measure shall be retained in the project file. Verification of implementation shall be based on the construction permit issued by the Implementing Agency. Field notes documenting verification shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Noise NOI-4: | Injection and extraction wells shall be located as far from sensitive receptors as feasible. If new wells are to be constructed in the immediate vicinity of sensitive receptors, construction specification requirements shall include installation and maintenance of a temporary noise barrier (e.g. engineered sound wall or noise blanket) during 24-hour construction activities, to the extent feasible if necessary to comply with local noise ordinances. Specifications shall include use of appropriate materials that shall be installed to a height that intercepts the line of sight between the construction site and sensitive receptors in order to achieve maximum attenuation in an attempt to decrease construction area noise to as close as ambient noise levels as possible. Furthermore, where new wells are located adjacent to sensitive receptors, wells and any other associated noise generating facilities (i.e. associated treatment facilities, pumps, generators, etc.) shall be enclosed within a structure to attenuate noise to an acceptable level comply with the applicable noise threshold at the nearest sensitive receptor. | This measure shall be incorporated into the final design once a site has been selected for a well, and shall be included in the construction contract as a contract specification and implemented by the contractor during construction. | A copy of the construction contract including this noise mitigation measure shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes documenting verification shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Noise NOI-5: | The Watermaster and/or Implementing Agency shall require the construction contractor(s) to implement the following measures: • 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 to below the local jurisdiction's acceptable level of vibration, or where no level has been established, 72 vibration decibels (VdB), within 45 feet of existing residential structures and 35 feet of institutional structures (e.g., schools) during construction of the various OBMPU projects. Use of small rubber-tired bulldozers shall be enforced within these areas during grading operations to reduce vibration effects. • The construction contractor for any individual OBMPU project shall provide signs along the roadway identifying a phone number for adjacent property owners to contact with any complaint. During future construction activities for any individual OBMPU project with heavy equipment within 300 feet of occupied residences, vibration field tests shall be conducted at the property line near the nearest occupied residences. To the extent feasible, if vibrations exceed 72 VdB, the construction activities shall be revised to reduce vibration below this threshold. These measures may include, but are not limited to the following: use different construction methods, slow down | Implementation Schedule This measure shall be included in the construction contract as a contract specification and implemented by the contractor during construction. | Verification A copy of the construction contract including this noise mitigation measure shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes documenting verification shall be retained in the project file. |
| | construction activity, or other mitigating measures to reduce vibration at the property from where the complaint was received. | | |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Noise NOI-6: | Where an OBMPU project would be constructed adjacent to an existing or potential historic building, the Watermaster and/or Implementing Agency shall require, through contract specifications, a certified structural engineer to be retained to submit a report documenting evidence that the operation of vibration-generating equipment associated with the construction activities would not result in any structural damage to the adjacent historic building prior to construction commences. Contract specifications shall be included in the construction documents for the applicable OBMPU project development. | This measure shall be included in the construction contract as a contract specification and implemented by the contractor during construction. | A copy of the construction contract including this noise mitigation measure shall be retained in the project file. Results of the findings of the structural engineer shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes or reports documenting verification shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Noise NOI-7: | Where an OBMPU project would be constructed within 2 miles of a public airport, any new indoor facilities should be retrofitted designed as documented by a professional noise technical study, to minimize noise to a level that is within OSHA's permissible exposure limit (PEL). Employees working outside at an OBMPU project, either during construction or operation, shall be provided with ear protection to minimize noise to a level that is below OSHA's PEL to be utilized during periods of excessive noise caused by any aircraft overflights. | This measure shall be included in the construction contract as a contract specification and implemented by the contractor during construction. Additionally, this measure shall be implemented ongoing during operation. | A copy of the construction contract including this noise mitigation measure shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes documenting verification shall be retained in the project file. During operations, site inspections by Implementing Agency inspection personnel shall be performed to ensure adherence to this measure. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Populati POP-1: | If future OBMPU facilities must be located on parcels occupied by existing housing and displaces that housing as a result, the proponent of the facility Implementing Agency will assist with a relocation plan in conformance with Section 7260 et seq. of the California Government Code ("California Relocation Assistance Law" or the "Act") to ensure that short- and long-term housing of comparable quality and value are made available to the home owner(s) prior to initiating construction of the facility. | This measure shall be carried out prior to initiating construction and/or operation depending on the nature of the housing requirements. | The relocation plan shall be retained in the project file. Documentation of the actions taken to secure housing, where applicable, shall be retained in the project file, and the Implementing Agency shall verify that the housing is secured as required in this measure. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Public S | Services | | |
| PS-1: | OBMPU facilities shall be fenced or otherwise have access controlled to prevent illegal trespass to attractive nuisances, such as construction sites or recharge sites. | This measure shall be incorporated into the final site design, and shall be included in the construction contract as a contract specification and implemented by the contractor during construction. | A copy of the construction contract including this mitigation measure shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Public S PS-2: | OBMPU facilities proposed to be located within vacant parkland or OBMPU facilities proposed to be located within existing park or recreation facilities that would require more than one acre of disturbance shall be either (1) Relocated to avoid significant impacts to parkland or (2) Shall provide supplemental parkland within the corresponding jurisdiction equal or greater to the amount of parkland or recreation facilities lost as a result of implementation of the OBMPU facility. | This measure shall be implemented during site selection and shall be completed prior to operation of the proposed facility. | Documentation verifying the provision of the supplemental park land shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Recreation REC-1: | The Watermaster or Implementing Agency shall prepare subsequent CEQA documentation for any Park or Recreation facilities required to be developed as part of implementation of mitigation measure PS-2—i.e., in the event an OBMPU Facility would be result in loss of parkland or recreation facilities. | The subsequent CEQA documentation shall be completed prior to implementation of any park or recreation facility. | Where applicable, a copy of the subsequent CEQA documentation for the individual project shall be retained in the project file. Verification shall be based on the submission of the final CEQA documentation to the Implementing Agency. |
| | | Responsible Party | Status / Date / Initials |
| | | Watermaster or Implementing Agency | |

| Mitigation Measure | Implementation Schedule | Verification |
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| Transportation TRAN-1: For projects that may affect traffic flow along existing roadways, the Implementing Agency shall require that contractors prepare a construction traffic control plan prior to issuance of construction permits. Elements of the plan should include, but are not necessarily limited to, the following: • 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. | This measure shall be included in the construction contract as a contract specification and implemented by the contractor during construction. The Traffic Control Plan shall be developed prior to initiation of construction. | A copy of the Traffic Control Plan and construction contract shall be retained in the project file(s). Verification of implementation shall be based on field inspections by the Implementing Agency. Additionally, correspondence with Caltrans, and/or the corresponding County or City traffic management division shall be retained in the project file. |
| | Responsible Party | Status / Date / Initials |
| | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Utilities a | The Watermaster or Implementing Agency shall prepare subsequent CEQA documentation for the Agua de Lejos Treatment Plant and upgrades to the Chino Desalters, new groundwater treatment facilities at or near well sites and at regionally located sites once specific improvements or facility locations have been identified, and design of such improvements or new facilities has been drafted. | The subsequent CEQA documentation shall be completed prior to implementation of any of the facilities listed in this measure. | Where applicable, a copy of the subsequent CEQA documentation for the individual project shall be retained in the project file. Verification shall be based on the submission of the final CEQA documentation to the Implementing Agency. |
| | | Responsible Party | Status / Date / Initials |
| | | Watermaster or Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Utilities UTIL-2 | Implementation of a Drainage Plan to Reduce Downstream Flows. Prior to <u>issuance of permits for</u> construction of project facilities, the Watermaster or Implementing Agency shall prepare a drainage plan that includes design features to reduce stormwater peak concentration flows exiting the above ground facility sites (consistent with MS4 requirements) 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. | This measure shall be included in the site design and construction contract as a contract specification and implemented by the contractor during construction. The Drainage Plan shall be developed prior to initiation of construction. | A copy of the Drainage Plan and construction contract shall be retained in the project file(s). Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Watermaster or Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Utilities UTIL-3 | and Service SystemsThe contract with demolition and construction contractors for a given | This measure shall be included in the | A copy of the recycling plan, as well as copy |
| OTIL-5 | OBMPU Project shall include the requirement that all materials that can feasibly be recycled shall be salvaged and recycled. This includes but is not limited to wood, metals, concrete, road base and asphalt. The contractors for a given OBMPU Project shall submit a recycling plan to the Watermaster or Implementing Agency for review and approval prior to issuance of permits for the construction of demolition/construction activities. | construction contract as a contract specification and implemented by the contractor during construction. The recycling plan shall be developed and approved prior to construction. | of the construction contract including this mitigation measure shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Watermaster or Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Utilities (| and Service Systems The contract with demolition and construction contractors for a given OBMPU Project shall include the requirement that all soils that are planned to be exported from the site that can feasibly be recycled shall be recycled for re-use; alternatively, soils shall be reused on site to balance soil import/export. | This measure shall be included in the construction contract as a contract specification and implemented by the contractor during construction. | A copy of the construction contract including this mitigation measure shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Documentation of soils recycling shall be completed by the contractor and retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

SUBSEQUENT ENVIRONMENTAL IMPACT REPORT MEASURES

| | Mitigation Measure | Implementation Schedule | Verification |
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| Air Qua AQ-1 | When using construction equipment greater than 150 horsepower (>150 hp), the Construction Contractor shall ensure that off-road diesel construction equipment complies with the Environmental Protection Agency (EPA)/California Air Resources Board (CARB) Tier 4 emissions standards or equivalent and shall ensure that all construction equipment is tuned and maintained in accordance with the manufacturer's specifications. | This measure shall be implemented during construction of future OBMPU facilities, and shall be included in the construction contract as a contract specification. | A copy of the construction contract including this mitigation measure shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Air Qua AQ-2 | All actively graded areas within the Project site shall be watered at 2.1-hour watering intervals (e.g., 4 times per day) or a movable sprinkler system shall be in place to ensure minimum soil moisture of 12 percent (%) is maintained for actively graded areas. Moisture content can be verified with use of a moisture probe by the grading | This measure shall be implemented during construction of future OBMPU facilities, and shall be included in the construction contract as a contract specification. | A copy of the construction contract including this mitigation measure shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from |
| | contractor. | | inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| BIO-1 All future OBMPU Projects shall be required to consult with a qualified professional to determine the need for site-specific biological surveys. Where a site has been determined to require a site-specific survey by a qualified professional, in any case in which a future OBMPU project Where future project-related impacts will affect undeveloped land, or in which the Implementing Agency seeks State Funding, site surveys shall be conducted by a qualified biologist/ecologist. If sensitive species are identified as a result of the survey for which mitigation/compensation must be provided in accordance with regulatory requirements, the following subsequent mitigation actions will be taken: a. The project proponent shall provide compensation for sensitive habitat acreage lost by acquiring and protecting in perpetuity The survey(s) shall be conducted prior to operation to construction. Where applicable, compensatory habitate acquired prior to operation of the facility. A copy of the survey(s) and any acquired prior to operation of the facility. A copy of the survey(s) and any acquired prior to operation of the facility. A copy of the survey(s) and any acquired prior to operation of the facility. A copy of the survey(s) and any acquired prior to operation of the facility. A copy of the survey(s) and any acquired prior to operation of the facility. A copy of the survey(s) and any acquired prior to operation of the facility. A copy of the survey(s) and any acquired prior to operation of the facility. |
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| qualified professional to determine the need for site-specific biological surveys. Where a site has been determined to require a site-specific survey by a qualified professional, in any case in which a future OBMPU project Where future project-related impacts will affect undeveloped land, or in which the Implementing Agency seeks State Funding, site surveys shall be conducted by a qualified biologist/ecologist. If sensitive species are identified as a result of the survey for which mitigation/compensation must be provided in accordance with regulatory requirements, the following subsequent mitigation actions will be taken: a. The project proponent shall provide compensation for sensitive |
| (through property or mitigation bank credit acquisition) habitat for the sensitive species at a ratio of not less than 1:1 for habitat lost. The property acquisition shall include the presence of at least one animal or plant per animal or plant lost at the development site to compensate for the loss of individual sensitive species. b. The final mitigation may differ from the above values based on negotiations between the project proponent and USFWS and CDFW for any incidental take permits for listed species. The project proponent shall retain a copy of the incidental take permit as verification that the mitigation of significant biological resource impacts at a project site with sensitive biological resources has been accomplished. c. Preconstruction botanical surveys for special-status plant communities and special-status plant species will be conducted. In areas that were not previously surveyed because of access or timing issues or project design changes, pre-construction surveys for special-status plant communities and special-status plant species will be conducted before the start of ground-disturbing activities during the appropriate blooming period(s) for the species. |
| Responsible Party Status / Date / Initials |
| Implementing Agency |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Biologic BIO-2 | Biological Resources Management Plan (BRMP): During final design and prior to issuance of construction permits, a BRMP will be prepared to assemble the biological resources mitigation measures for each specific infrastructure improvement in the future. The BRMP will include terms and conditions from applicable permits and agreements and make provisions for monitoring assignments, scheduling, and responsibility. The BRMP will also discuss habitat replacement and revegetation, protection during ground-disturbing activities, performance (growth) standards, maintenance criteria, and monitoring requirements for temporary and permanent native plant community impacts. The parameters of the BRMP will be formed with the mitigation measures from the project-level EIR/EIS subsequent CEQA documentation, including terms and conditions as applicable from the USFWS, USACE, SWRCB/RWQCB, and CDFW. | The BRMP shall be developed during final design of a given project site. The measures developed in the BRMP shall be implemented during construction of future OBMPU facilities, and shall be included in the construction contract as a contract specification. | A copy of the BRMP shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| L | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Biological Res | sources | | |
| BIO-3 Prior wate regul Regi of Fis chan exter mitig provi exist or in- the s spec appri comp Typic wate ratio ratio habit anim Prop appri obtai Engii other facilii Thes perm outlir | r to discharge of fill or streambed alteration of state or federal purisdictional areas, the project proponent shall obtain alteration permits from the U.S. Army Corps of Engineers, local ional Water Quality Control Board and the California Department is and Wildlife. Any future project that must discharge fill into a mel or otherwise alter a streambed shall be minimized to the int feasible, and any discharge of fill not avoidable shall be gated through compensatory mitigation. Mitigation can be ided by restoration of temporary impacts, enhancement of ting resources, or purchasing into any authorized mitigation bank leieu fee program; by selecting a site of comparable acreage near site and enhancing it with a native riparian habitat or invasive cies removal in accordance with a habitat mitigation plan roved by regulatory agencies; or by acquiring sufficient pensating habitat to meet regulatory agency requirements. cally, regulatory agencies require mitigation for jurisdictional ers without any riparian or wetland habitat to be mitigated at a 1:1. For loss of any riparian or other wetland areas, the mitigation will begin at 2:1 and the ratio will rise based on the type of tat, habitat quality, and presence of sensitive or listed plants or hals in the affected area. A Habitat Mitigation and Monitoring posal shall be prepared and reviewed and approved by the copriate regulatory agencies. The project proponent will also in permits from the regulatory agencies (U.S. Army Corps of the regulatory agencies) (U.S. Army Corps of the regulatory agencies to jurisdiction over the proposed ty improvement) if any impacts to jurisdictional areas will occur. See agencies can impose greater mitigation requirements in their nits, but Caltrans the Implementing Agency will utilize the ratios and above as the minimum required to offset or compensate for acts to jurisdictional waters, riparian areas or other wetlands. | If necessary, the regulatory permits shall be obtained prior to ground disturbance within the jurisdictional area and the conditions of the regulatory permits shall be implemented as defined in the regulatory permits. | A copy of the regulatory permits shall be retained in the project file(s), and verification that all conditions have been implemented shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Biologic BIO-4 | Al Resources Jurisdictional Water Preconstruction Surveys: A federal and state jurisdictional water preconstruction survey will be conducted at least six months before the start of ground-disturbing activities to identify and map all jurisdictional waters in the project footprint and if possible within up to a 250-foot buffer around the project footprint, subject to legal property access restrictions. The purpose of this survey is to confirm the extent of jurisdictional waters within the project footprint and adjacent up to 250 foot buffer in areas where permission to enter was not previously granted and where aerial photograph interpretation was used to estimate the extent of these features. If possible, surveys would be performed during the spring, when plant species are in bloom and hydrological indicators are most readily identifiable. These results would then be | The survey(s) shall be conducted at least six months prior to construction during the spring, where possible. | A copy of the survey(s) shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | used to calculate impact acreages and determine the amount of compensatory mitigation required to offset the loss of wetland functions and values. | | |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Biologic BIO-5 | Resources It is illegal to "take" active bird nests of native birds, and if such nests are present at a project site, no take is allowed. To avoid an illegal take of active bird nests, any grubbing, brushing or tree removal will be conducted outside of the State identified nesting season (nesting season is approximately from February 15 through September 1 of a given calendar year). Alternatively, a nesting bird | Implementation Schedule Construction shall occur outside of the nesting season or a copy of the field survey documenting no nesting birds shall be completed prior to initiating construction within the nesting season. | The Implementing Agency shall document the dates of construction. If construction is proposed to occur within the nesting season, a copy of the field survey documenting the absence of nesting birds shall be retained in the project file. Any coordination with CDFW |
| | survey that demonstrates that no bird nests will be disturbed during project construction can be conducted by a qualified biologist no more than 14 days prior to initiation of ground disturbance; construction may only commence once a qualified biologist has demonstrated that no nesting birds are present at a given site. Alternatively, The Implementing Agency shall coordinate with the CDFW to conduct develop nesting bird surveys protocol will be completed, and methodology of surveys will be agreed upon. All nesting bird surveys will be conducted by a | | pertaining to nesting birds shall also be retained in the project file. |
| | qualified biologist prior to initiation of ground disturbance to demonstrate that no bird nests will be disturbed by project construction activities. The results of the nesting bird survey will be documented in a report submitted by the avian biologist to the Implementing Agency. The Implementing Agency, in coordination with CDFW and USFWS (as appropriate), may designate nest buffers outside of which construction activities may be allowed to proceed. | | |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Biologio | cal Resources All future OBMPU Projects shall be required to consult with a | The survey(s) shall be conducted prior to | A copy of the survey(s), and where required, |
| | qualified professional to determine the need for site-specific protocol burrowing owl surveys. Prior to commencement of construction activity where a site has been determined to require a protocol burrowing owl surveys survey by a qualified professional, or in locations that are not fully developed, a protocol burrowing owl survey will be conducted using the 2012 survey protocol methodology identified in the "Staff Report on Burrowing Owl Mitigation, State of California, Natural Resources Agency, Department of Fish and Game, March 7, 2012", or the most recent CDFW survey protocol available. Protocol surveys shall be conducted by a qualified biologist to determine if any burrowing owl burrows are located within the potential area of impact. If occupied burrows may be impacted, an impact minimization plan shall be developed and approved by in coordination with CDFW and submitted to the Implementing Agency that will protect the burrow in place or provide for passive relocation to an alternate burrow within the vicinity but outside of the project footprint in accordance with current CDFW guidelines. Active nests must be avoided with a 250-foot buffer until all nestlings have fledged. | construction. All actions pertaining to the discovery of burrowing owl shall occur prior to or during construction depending on the direction within the impact minimization plan. | the impact minimization plan, shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Biological Resources | | | |
| BIO-7 | Prior to commencement of construction activity on a project facility within a MSHCP/HCP plan area, consistency with that plan, or take authorization through that plan, shall be obtained. Through avoidance, compensation or a comparable mitigation alternative, each project shall be shown to be consistent with a MSHCP/HCP. | This measure shall be implemented prior to commencement of construction. | Documentation verifying consistency with the MSHCP/HCP shall be obtained by the Implementing Agency, and a copy of this documentation shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Biologi | cal Resources | | |
| BIO-8 | During the design phase of future OBMPU projects, the Implementing Agency shall place primary emphasis on the preservation of large, unbroken blocks of natural open space and wildlife habitat area, and protect the integrity of habitat linkages. As part of this emphasis, the Watermaster shall facilitate incorporate programs for purchase of lands, clustering of development to increase the amount of preserved open space, and assurances that the construction of facilities or infrastructure improvements meet standards identical to the environmental protection policies applicable to the specific facilities improvement by implementing agencies. | This measure shall be implemented during the design stage of each facility, and shall be included in the construction contract as a contract specification. | A copy of the construction contract and final design for each project shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| Mitigation Measure | Implementation Schedule | Verification |
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| BIO-9 Require facility designs and maintenance activities to be planned to protect habitat values and to preserve significant, viable habitat areas and habitat connection in their natural conditions. A qualified biologist shall be retained to determine the scope of the following for a given Project site: a. Within designated habitat areas of rare, threatened or endangered species, prohibit disturbance of protected biotic resources. b. Within riparian areas and wetlands subject to state or federal regulations, riparian woodlands, oak and walnut woodland, and habitat linkages, require that the vegetative resources which contribute to habitat carrying capacity (vegetative diversity, faunal resting sites, foraging areas, and food sources) are preserved in place or replaced so as not to result in a measurable reduction in the reproductive capacity of sensitive biotic resources. c. Within habitats of plants listed by the CNDDB or CNPS as "special" or "of concern," require that new facilities do not result in a reduction in the number of these plants, if they are present. | This measure shall be implemented during the design stage of each facility, and shall be included in the construction contract as a contract specification. | A copy of the construction contract and final design for each project shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | Responsible Party | Status / Date / Initials |
| | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| BIO-10 | Al Resources Maximize the preservation of individual oak, sycamore and walnut trees within proposed OBMPU facility sites. Preservation is defined within this measure as follows: existing oak, sycamore and walnut trees within a given Project site shall be retained within the site to the maximum extent feasible except where their preservations would interfere with functional and reasonable project design. Where the preservation of individual trees is not possible, the guidelines set forth in MM AES-4 regarding tree preservation and adherence to local ordinances thereof shall be followed. | This measure shall be implemented during the design stage of each facility, and shall be included in the construction contract as a contract specification. | A copy of the construction contract and final design for each project shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Biologic BIO-11 | Require the establishment of buffer zones adjacent to areas of preserved-biological resources as recommended and defined by the site Biologist. Such buffer zones shall be of adequate width to protect biological resources from grading and construction activities, as well as from the long-term use of adjacent lands. Permitted land modification activities with preservation and buffer areas are to be limited to those that are consistent with the maintenance of the reproductive capacity of the identified resources. The land uses and design of project facilities adjacent to a vegetative preservation area, as well as activities within the designated buffer area are not to be permitted to disturb natural drainage patterns to the point that vegetative resources receive too much or too little water to permit their ongoing health. In addition, landscape adjacent to areas of preserved biological resources shall be designed so as to avoid invasive species which could negatively impact the value of the | This measure shall be implemented during the design stage of each facility, and shall be included in the construction contract as a contract specification. | A copy of the construction contract and final design for each project shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | preserved resource. | | |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Biologic BIO-12 | As part of completion of the final site development, after ground disturbance has occurred Following construction activities within or adjacent to any natural area, the disturbed areas shall be revegetated using a plant mix of native plant species that are suitable for long term vegetation management at the specific site, which shall be implemented in cooperation with regulatory agencies and with oversight from a qualified biologist. The seeds mix shall be verified to contain the minimum amount of invasive plant species seeds | This measure shall be implemented during the construction, and shall be included in the construction contract as a contract specification. | A copy of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | reasonably available for the project area. | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Biologic BIO-13 | al Resources Clean Construction Equipment. During construction, equipment will be washed before entering the project footprint to reduce potential indirect impacts from inadvertent introduction of nonnative invasive plant species. Mud and plant materials will be removed from construction equipment when working in native plant communities, near special-status plant communities, or in areas where special-status plant species have been identified. | This measure shall be implemented during construction and shall be included in the construction contract as a contract specification. | A copy of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
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| | Mitigation Measure | Implementation Schedule | Verification |
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| Biologica | al Resources | | |
| BIO-14 | Personnel who work onsite will attend a Contractor Education and Environmental Training session conducted by a qualified biologist. The environmental training is likely to be required by the regulatory agencies and will cover general and specific biological information on the special-status plant species that may be present near the construction site, including the distribution of the resources, the recovery efforts, the legal status of the resources, and the penalties for violation of project permits and laws. The Contractor Education and Environmental Training sessions will be given before the initiation of construction activities and repeated, as needed, when new personnel begin work within the project limits. Daily updates and synopsis of the training will be performed during the daily safety ("tailgate") meeting. All personnel who attend the training will be required to sign an attendance list stating that they have received the Contractor Education and Environmental Training, and such tracking sheets shall be maintained for inspection by the Implementing Agency. | The Contractor Education and Environmental Training sessions will be given before the initiation of construction activities and repeated, as needed, when new personnel begin work within the project limits. Daily updates and synopsis of the training will be performed during the daily safety ("tailgate") meeting. The measure shall be included in the construction contract as a contract specification. | A copy of the construction contract shall be retained in the project file. Verification of implementation shall be based on the contractor to submit training attendance lists to the Implementing Agency. Field notes from inspections shall be retained in the project file. |
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| Biologic BIO-15 | Biological Monitor to Be Present during Construction Activities in areas where impacts to Riparian, Riverine, Wetland, Endangered Species or Endangered Species Critical habitat occurs. A biological monitor (or monitors) will be present onsite during construction activities that could result in direct or indirect impacts on sensitive biological resources (including listed species) and to oversee permit compliance and monitoring efforts for all special-status resources. A biological monitor (qualified biologist) is any person who has a bachelor's degree in biological sciences, zoology, botany, ecology, or a closely related field and/or has demonstrated field experience in and knowledge about the identification and life history of the special-status species or jurisdictional waters that could be affected by project activities. The biological monitor(s) will be responsible for monitoring the Contractor to ensure compliance with the Section 404 Individual Permit, Section 401 Water Quality Certification and the Lake and Streambed Alteration Agreement. Activities to ensure compliance would include performing construction-monitoring activities, including monitoring environmental fencing, identifying areas where special-status plant species are or may be present, and advising the Contractor of methods that may minimize or avoid impacts on these resources. Biological monitor(s) will be required to be present in all areas during ground disturbance activities and for all construction activities conducted within or adjacent to identified | Implementation Schedule This measure shall be implemented during construction and shall be included in the construction contract as a contract specification. | A copy of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections and from the biological monitor activities shall be retained in the project file. |
| | Environmentally Sensitive Areas, Wildlife Exclusion Fencing, and Non-Disturbance Zones <u>as defined by the Project biologist</u> . | | |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Biologic | al Resources | | |
| BIO-16 | Food and Trash: All food-related trash items (e.g., wrappers, cans, bottles, food scraps) will be disposed of in closed containers and removed at least once a week from the construction site. | This measure shall be implemented during construction and shall be included in the construction contract as a contract specification. | A copy of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| BIO-17 | Rodenticides and Herbicides: Use of rodenticides and herbicides in the project footprint will be restricted at the direction of the project biologist. This measure is necessary to prevent poisoning of special-status species and the potential reduction or depletion of the prey populations of special–status wildlife species. Where pesticides must be used, they must be used in full accordance with use instructions for the particular chemical and at the direction of the project biologist. | This measure shall be implemented during construction and shall be included in the construction contract as a contract specification. Additionally, this measure shall be implemented ongoing during operation. | A copy of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. During operations, site inspections by the Implementing Agency shall be performed to ensure adherence to this measure. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Biologic | al Resources | | |
| BIO-18 | Wildlife Exclusion Fencing: Exclusion barriers (e.g., silt fences) will be installed at the edge of the construction footprint and along the outer perimeter of Environmentally Sensitive Areas and Environmentally Restricted Areas <u>as defined by the Project biologist prior to the commencement of construction activities</u> to restrict special-status species from entering the construction area <u>during construction</u> . The design specifications of the exclusion fencing will be determined through consultation with the USFWS and/or CDFW, <u>as appropriate</u> . Clearance surveys will be conducted for special-status species after the exclusion fence is installed <u>in compliance with USFWS and/or CDFW requirements</u> . If necessary The project biologist shall determine the frequency in which clearance surveys will be conducted <u>daily to determine the efficacy of the exclusion fencing</u> . | This measure shall be implemented during the design stage of each facility, and shall be included in the construction contract as a contract specification. | A copy of the construction contract and final design for each project shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| BIO-19 | Equipment Staging Areas: Prior to the commencement of construction, the Project Proponent shall identify staging areas for construction equipment to be utilized during construction that will be located outside sensitive biological resources areas, including habitat for special-status species, jurisdictional waters, and wildlife movement corridors, to the maximum extent possible. | This measure shall be implemented during construction and shall be included in the construction contract as a contract specification. | A copy of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Biologic | al Resources | | |
| BIO-20 | Plastic mono-filament netting (erosion-control matting) or similar material will not be used in erosion control materials to prevent potential harm to wildlife. Materials such as coconut coir matting or tackified hydroseeding compounds will be used as substitutes. | This measure shall be implemented during construction and shall be included in the construction contract as a contract specification. | A copy of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| BIO-21 | al Resources Vehicle Traffic: During ground-disturbing activities, project-related vehicle traffic will be restricted within the construction area to established roads, construction areas, and other designated areas to prevent avoidable impacts. Access routes will be clearly flagged and off-road traffic outside of the designated areas will be prohibited. | This measure shall be implemented during construction and shall be included in the construction contract as a contract specification. | A copy of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

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| Biologic BIO-22 | Entrapment Prevention: All excavated, steep-sided holes or trenches more than 8 inches deep will be covered at the close of each working day with plywood or similar materials, or a minimum of one escape ramp constructed of earth fill for every 10 feet of trenching will be provided to prevent the entrapment of wildlife. Before such holes or trenches are filled, they will be thoroughly inspected for trapped animals. All culverts or similar enclosed structures with a diameter of 4 inches or greater will be covered, screened, or stored more than 1 foot off the ground to prevent use by wildlife. Stored material will be cleared for common and special-status wildlife species before the pipe is subsequently used or moved. | This measure shall be implemented during construction and shall be included in the construction contract as a contract specification. | A copy of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| Mitigation Measure | Implementation Schedule | Verification |
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| BIO-23 Weed Control Plan: Prior to the commencement of construction, a Weed Control Plan will be developed for the Implementing Agency by the Project Biologist to minimize or avoid the spread of weeds during ground-disturbing activities. In the Weed Control Plan, the following topics will be addressed: • A Schedule for noxious weed surveys shall be addressed. • Weed control treatments shall be addressed and ultimately implemented by the Implementing Agency, including permitted herbicides, and manual and mechanical methods for application; herbicide application will be restricted in Environmentally Sensitive Areas (as defined by the Project biologist). • The timing of the weed control treatment for each plant species shall be addressed. • Fire prevention measures shall be addressed. The Project Proponent shall maintain records demonstrating implementation of the Weed Control Plan, and shall make those records available to inspection by the Implementing Agency upon request. | The Weed Control Plan should be developed prior to construction commencement. The Weed Control Plan shall be implemented during construction and shall be included in the construction contract as a contract specification. | A copy of the Weed Control Plan and the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | Responsible Party | Status / Date / Initials |
| | Implementing Agency | |

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| Biologic BIO-24 | Dewatering/Water Diversion Plan: Open or flowing water may be present during construction. If construction is planned to occur where there is open or flowing water, prior to the commencement of construction the Project Proponent shall submit to the Implementing Agency a Dewatering Plan prepared in coordination with a strategy that is approved by the resource agencies (e.g., USACE, SWRCB/RWQCB, and CDFW, as | Implementation Schedule This measure shall be implemented during construction and shall be included in the construction contract as a contract specification. | A copy of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | appropriate). The Dewatering Plan shall identify how open or flowing water will be routed around construction areas, such as through the creation of cofferdams, will be used to dewater or divert water from the work area. If cofferdams are constructed, implementation of the following cofferdam or water diversion measures is recommended shall be implemented to avoid and lessen impacts on jurisdictional waters during construction: The cofferdams, filter fabric, and corrugated steel pipe are to be removed from the creek bed after completion of the project. The timing of work within all channelized waters is to be coordinated with the regulatory agencies. | | |
| | The cofferdam is to be placed upstream of the work area to direct base flows through an appropriately sized diversion pipe. The diversion pipe will extend through the Contractor's work area, where possible, and outlet through a sandbag dam at the downstream end. Sediment catch basins immediately below the construction site | | |
| | are to be constructed when performing in-channel construction to prevent silt- and sediment-laden water from entering the main stream flow. Accumulated sediments will be periodically removed from the catch basins. | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

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| Biological Resources | | | |
| BIO-25 | Permanent Water Diversion Projects: The Watermaster shall continue to prepare the annual Prado Basin Habitat Sustainability Monitoring Program. The Implementing Agency shall conduct a second-tier CEQA evaluation for proposed water diversion projects associated with the OBMPU. The potential impacts to Prado Basin and sensitive habitat (for example riparian, wetland, or critical habitat) from implementation of such diversion projects shall receive public review, including pertinent wildlife management agencies and interested parties. | This measure shall be implemented ongoing during operation; the Prado Basin Habitat Sustainability Monitoring Program shall continue to be implemented on its current schedule. The second-tier CEQA evaluation shall be completed prior to approval of permanent water diversion projects. | A copy of the second tier CEQA documentation shall be retained in the project file, and the Implementing Agency shall verify that the requirements in this measure have been completed. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Watermaster and the Implementing Agency | |

| Mitigation Measure | Implementation Schedule | Verification |
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| Cultural Resources CUL-1: Where a future discretionary project requiring a Negative Declaration or follow-on EIR is proposed within an existing facility that has been totally disturbed due to it undergoing past engineered site preparation (such as a well site or water treatment facility site), the agency implementing the OBMPU project will not be required to complete a follow on cultural resources report (Phase I Cultural Resources Investigation) unless the Implementing Agency is seeking State funding, in which case the Implementing Agency must prepare a Phase I Cultural Resources Investigation to satisfy State CEQAplus requirements. Where a Phase I Cultural Resources Investigation is not required, the following shall be required to minimize impacts to any accidentally exposed cultural resource materials: • Should any cultural resources be encountered during construction of these facilities, earthmoving or grading activities in the immediate area of the finds shall be halted and an onsite inspection shall be performed immediately by a qualified archaeologist. Responsibility for making this determination shall be with the Implementing Agency's onsite inspector. The archaeological professional shall assess the find, determine its significance, and make recommendations for appropriate mitigation measures within the guidelines of the California Environmental Quality Act. | This measure shall be implemented during construction and shall be included in the construction contract as a contract specification. | A copy of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | Responsible Party | Status / Date / Initials |
| | Implementing Agency | |

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| Cultural | Resources | | |
| CUL-2: | Where a future discretionary project requiring a Negative Declaration or follow-on EIR is proposed within an undisturbed site and/or a site that will require substantial earthmoving activities and/or excavation, and/or the Implementing Agency is seeking State funding, the agency implementing the OBMPU project shall complete a follow on cultural resources report (Phase I Cultural Resources Investigation) regardless of whether the Implementing Agency is seeking State funding. | This measure shall be implemented prior to the construction of any OBMPU Facility, and any ongoing monitoring shall occur during the corresponding period of construction. Where required, monitoring and any other measures recommended shall be included as part of the construction contract, and shall be carried out during construction. | A copy of all cultural resource reports and of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | Where a Phase I Cultural Resources Investigation is required, the following phases of identification, evaluation, mitigation, and monitoring shall be followed for a given OBMPU Project: | | |
| | Phase I (Identification): A Phase I Investigation to identify historical, archaeological, or paleontological resources in a project area shall include the following research procedures, as appropriate: Focused historical/archaeological resources records searches at SCCIC and/or EIC, depending on the project location, and paleontological resources records searches by NHMLAC, SBCM, and/or the Western Science Center in Hemet; Historical background research, geoarchaeological profile analysis, and paleontological literature review; Consultation with the State of California Native American Heritage Commission, Native American tribes in the surrounding area, pertinent local government agencies, and local historic preservation groups; Field survey of the project area by qualified professionals of the pertinent discipline and at the appropriate level of intensity as determined on the basis of sensitivity assessment and site conditions; Field recordation of any cultural resources encountered during the survey and proper documentation of the resources for incorporation into the appropriate inventories or databases. Phase II (Evaluation): If cultural resources are encountered in a proper documentation of the resources are encountered in a proper documentation of the resources are encountered in a proper documentation of the resources are encountered in a proper documentation of the resources are encountered in a proper documentation of the resources are encountered in a proper documentation of the resources are encountered in a proper documentation of the resources are encountered in a proper documentation of the p | | |
| | Phase II (Evaluation): If cultural resources are encountered in a project area, a Phase II investigation shall be required to evaluate the potential significance of the resources in accordance with the statutory/regulatory framework outlined above. A typical Phase II study consists of the following research procedures: | | |

| Mitigation Measure | Implementation Schedule | Verification |
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| Preparation of a research design to discuss the specific goals and objectives of the study in the context of important scientific questions that may be addressed with the findings and the significance criteria to be used for the evaluation, and to formulate the proper methodology to accomplish such goals; In-depth exploration of historical, archaeological, or paleontological literature, archival records, as well as oral historical accounts for information pertaining to the cultural resources under evaluation; Fieldwork to ascertain the nature and extent of the archaeological/paleontological remains or resource-sensitive sediments identified during the Phase I study, such as surface collection of artifacts, controlled excavation of units, trenches, and/or shovel test pits, and collection of soil samples; Laboratory processing and analyses of the cultural artifacts, fossil specimens, and/or soil samples for the proper recovery, identification, recordation, and cataloguing of the materials collected during the fieldwork and to prepare the assemblage for permanent curation, if warranted. Phase III (Mitigation): For resources that prove to be significant under the appropriate criteria, mitigation of potential project impact is required. Depending on the characteristics of each resource type and the unique aspects of significance for each individual resource, mitigation may be accomplished through a variety of different methods, which shall be determined by a qualified archaeologist, paleontologist, historian, or other applicable professional in the "cultural resources" field. Typical mitigation for historical, archaeological, or paleontological resources, however, may focus on the following procedures, | Implementation Schedule | Verification |
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| Data recovery through further excavation at an archaeological site or a paleontological locality to collect a representative sample of the identified remains, followed by laboratory processing and analysis as well as preparation for permanent curation; Comprehensive documentation of architectural and historical | | |
| data about a significant building, structure, or object using methods comparable to the appropriate level of the Historic American Buildings Survey (HABS) and the Historic | | |

| Mitigation Measure | Implementation Schedule | Verification |
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| American Engineering Record (HAER) for permanent curation at a repository or repositories that provides access to the public; • Adjustments to project plans to minimize potential impact on the significance and integrity of the resource(s) in question. 4. Phase **III-IV** (Monitoring): At locations that are considered sensitive for subsurface deposits of undetected archaeological or paleontological remains, all earth-moving operations shall be monitored continuously or periodically, as warranted, by qualified professional practitioners. Archaeological monitoring programs shall be coordinated with the nearest Native American groups, who may wish to participate, as put forth in MMs TCR-1 through TCR-3. | | |
| | Responsible Party | Status / Date / Initials |
| | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Cultural CUL-3: | After each phase of the studies required by mitigation measure CUL-2 has been completed, where required, a complete report on the methods, results, and final conclusions of the research procedures shall be prepared and submitted to South Central Coastal Information Center (SCCIC), Eastern Information Center (EIC), Natural History Museum of Los Angeles County (NHMLAC), and/or San Bernardino County Museum (SBCM), as appropriate and in addition to the lead-Implementing Agency for the project, for permanent documentation and easy references by future researchers. | The reports shall be completed after the corresponding study has been completed. | A copy of all cultural resource reports and of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Any correspondence with SCCIC, EIC, NHMLAC, and/or SBCM shall be retained in the project file, including verification of receipt of applicable reports. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

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| Cultural | Resources | | |
| CUL-4: | Prior to <u>commencement of</u> construction of OBMPU related facilities, the Watermaster and IEUA shall confer with the <u>Watermaster and</u> <u>Watermaster Parties/stakeholders</u> to establish a programmatic agreement with SHPO that will stipulate a set of mutually accepted guidelines that address research procedures and the types of potential cultural resources that may be excluded from further consideration before OBMPU Projects are implemented, such as common infrastructure features that are more than 50 years of age, but have a low potential to be considered historically significant, such as existing roadways and minor, utilitarian structures serving as pumphouses or reservoirs, as well as numerous historic-period buildings that are adjacent to the project boundaries but are unlikely to receive any direct or indirect impact. Once this agreement has been made with SHPO, Watermaster shall retain the agreement in the Project file, and shall ensure that all Stakeholder Parties are given copies of the agreement for reference on future OBMPU Projects. For OBMPU Projects that are in development prior to an agreement with SHPO, all types of cultural resources shall be considered by the professionals assessing historical resources within the project footprint; regardless, the steps provided in MM CUL-2 shall be followed to assess and minimize impacts to sensitive cultural resources within a given site. | This mitigation measure shall be initiated prior to the construction of any OBMPU facilities. | A copy of the SHPO agreement shall be retained in the Project file and, per the requirements in the measure, shall be provided by Watermaster to Watermaster Stakeholders to be utilized in future resource assessments for future OBMPU Projects. Correspondence with SHPO on this matter shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | IEUA and Watermaster, Watermaster Stakeholders/Implementing Agencies | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Energy EN-1: | Where feasible, future OBMPU Projects shall consider the use of alternative energy sources to serve the future OBMPU Facility energy demands. Examples of circumstances that would render use of alternative energy infeasible include, but are not limited to: lack of space within a given site for installation of alternative energy sources; fiscal infeasibility due to lack of efficiency of alternative sources of energy when compared to the energy demand for a given project; etc. | This measure shall be implemented during the design stage of each facility, and shall be included in the construction contract as a contract specification. | A copy of the construction contract and final design for each project shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Energy EN-2: | Future OBMPU Projects that are anticipated to utilize a substantial amount of energy for operations, such as regional groundwater treatment plants, pump stations, upgrades to expand capacity at existing water treatment plants, etc., shall undergo subsequent CEQA documentation to address assess operational energy demands and GHG emissions related to energy demands. The determination of whether a project will be a large consumer of energy shall be left to the Watermaster or Implementing Agency for the Project's discretion. | The subsequent CEQA documentation shall be completed prior to implementation of any of the facilities listed in this measure. | Where applicable, a copy of the subsequent CEQA documentation for the individual project shall be retained in the project file. Verification shall be based on the submission of the final CEQA documentation to the Implementing Agency. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agencies | |

| Mitigation Measure | Implementation Schedule | Verification |
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| Hydrology and Water Quality HYD-1: Watermaster shall review each Storage and Recover application, and estimate the surface and ground waresponse (estimate the potential for loss of pumping Watermaster shall then prepare a report that descrit and potential Material Physical Injury (MPI) to the shall develop mitigation requirements pursuant to I mitigate MPI caused by the proposed Storage and Program. The Storage and Recovery Program Appli (Implementing Agency) will develop mitigation meast these requirements established by the Watermaster shall be incorporated into their Storage and Recover application. Upon approval by Watermaster, these remeasures will be incorporated into the Storage and Program storage agreement. Applications that do not mitigate the potential for loss of pumping sustainabiling determined by the Watermaster based on the precessinal not be accepted and therefore will not be dever | Storage and Recovery Program application has been received. The mitigation developed depending on whether it applies to operation or construction related constraints, shall be implemented during the design phase, durin construction and/or shall be carried out through operations of the project. Any measures that shall be implemented during construction shall be included in the construction contract as a contract specification. | project file alongside the application. Additionally, a copy of the construction |
| | Responsible Party | Status / Date / Initials |
| | Watermaster and Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Hydrolog | gy and Water Quality | | |
| HYD-2: | To mitigate MPI caused by a proposed Storage and Recovery Program Application (as described above under HYD-1), the data gathered through Watermaster's comprehensive groundwater-level monitoring shall be used to identify potential impacts on pumping sustainability and to develop mitigation requirements to mitigate for these impacts. Potential mitigation includes, but is not limited to: (1) modifying the put and take cycles to minimize impacts to pumping sustainability, (2) strategically increasing supplemental water recharge to mitigate loss of pumping sustainability, (3) modifying a party's affected well (lowering pump bowls), (4) providing an alternate supply to the affected party to ensure it can meet its demands, (5) a combination of (1) through (4), and (6) the implementation of a monitoring program to verify the effectiveness of the mitigation actions. The operation of certain facilities proposed as part of the OBMPU can be used to implement these mitigation actions. | This measure shall be implemented once a Storage and Recovery Program application has been received. The mitigation developed, depending on whether it applies to operations or construction related constraints, shall be implemented during the design phase, during construction and/or shall be carried out through operations of the project. Any measures that shall be implemented during construction shall be included in the construction contract as a contract specification. | A copy of mitigation identified to mitigate pumping sustainability impacts shall be retained in the project file alongside the application. Additionally, a copy of the construction contract and final design for each project shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Watermaster and Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Hydrolog HYD-3: | Watermaster shall review each Storage and Recovery Program application, and estimate the surface and ground water systems response (estimate the potential for new land subsidence). Watermaster shall then prepare a report that describes the response and potential MPI to the Chino Basin, and shall develop mitigation requirements pursuant to MM HYD-4 to mitigate MPI caused by the proposed Storage and Recovery Program. The Storage and Recovery Program Applicant (Implementing Agency) will develop mitigation measures pursuant to these requirements established by the Watermaster; these measures shall be incorporated into their Storage and Recovery Program application. Upon approval by Watermaster, these mitigation measures will be incorporated into the Storage and Recovery Program storage agreement. Applications that do not adequately mitigate the potential for new land subsidence, which will be determined by the Watermaster, shall not be accepted and therefore will not be developed. | This measure shall be implemented once a Storage and Recovery Program application has been received. The mitigation developed, depending on whether it applies to operations or construction related constraints, shall be implemented during the design phase, during construction and/or shall be carried out through operations of the project. Any measures that shall be implemented during construction shall be included in the construction contract as a contract specification. | A copy of report prepared by Watermaster, as well as the Storage and Recovery Program storage agreement shall be retained in the project file alongside the application. Additionally, a copy of the construction contract and final design for each project shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Watermaster and Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Hydrolo, HYD-4: | To mitigate the potential for new land subsidence caused by a proposed Storage and Recovery Program Application (as described above under HYD-3), the data gathered through Watermaster's comprehensive groundwater-level and ground-level monitoring shall be used to identify the potential for new land subsidence and to develop mitigation requirements to mitigate for these impacts. Potential mitigation includes, but is not limited to: (1) limiting facilities and operations of the Storage and Recovery Programs to MZ-2 and -3, (2) modifying the put and take cycles to ensure the Storage and Recovery Program does not contribute to the lowering of groundwater-levels below the new land subsidence metric, (4) providing an alternate supply to MZ-1 producers to maintain groundwater-levels above the new land subsidence metric, to the extent that the Storage and Recovery Program operation affect them, (5) a combination of (1) through (4) above, and (6) the implementation of a monitoring program to verify the effectiveness of the mitigation actions. The operation of certain facilities proposed as part of the OBMPU can be used to implement these mitigation actions. | This measure shall be implemented once a Storage and Recovery Program application has been received. The mitigation developed, depending on whether it applies to operations or construction related constraints, shall be implemented during the design phase, during construction and/or shall be carried out through operations of the project. Any measures that shall be implemented during construction shall be included in the construction contract as a contract specification. | A copy of mitigation identified to mitigate new land subsidence impacts shall be retained in the project file alongside the application. Additionally, a copy of the construction contract and final design for each project shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Watermaster and Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Hydrolog HYD-5: | Watermaster shall estimate the reduction in net recharge and Safe Yield for each Storage and Recovery Program/Project and deduct it from water stored in each Storage and Recovery Program storage account, which will compensate for its impact on net recharge and Safe Yield. Watermaster shall review these impacts and develop mitigation requirements pursuant to the proposed Storage and Recovery Program The Storage and Recovery Program Applicant (Implementing Agency) will develop mitigation measures pursuant to the requirements established by Watermaster; these measures shall be incorporated into the Applicant's Storage and Recovery Program application. Upon approval by Watermaster, these mitigation measures shall be incorporated into the Storage and Recovery Program storage agreement. Applications that do not adequately mitigate adverse impacts on net recharge and Safe Yield, which will be determined by Watermaster, shall not be accepted and therefore will not be developed. | This measure shall be implemented on an ongoing basis throughout the life of the OBMPU, and shall apply once a Storage and Recovery Program application has been received. The mitigation developed, depending on whether it applies to operations or construction related constraints, shall be implemented during the design phase, during construction and/or shall be carried out through operations of the project. Any measures that shall be implemented during construction shall be included in the construction contract as a contract specification. | A copy of report prepared by Watermaster, as well as the Storage and Recovery Program storage agreement shall be retained in the project file alongside the application. Additionally, a copy of the construction contract and final design for each project shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Watermaster and Implementing Agency | |
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| | Mitigation Measure | Implementation Schedule | Verification |
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| HYD-6: | To mitigate impacts on net recharge and Safe Yield caused by a proposed Storage and Recovery Program Application (as described above under HYD-5), the Watermaster's comprehensive monitoring and modeling that estimates net recharge of the Chino Basin shall be used to identify potential and actual losses of net recharge and to develop mitigation requirements to mitigate impacts thereof. Potential mitigation includes, but is not limited to: (1) modifying the put and take cycles to minimize reductions in net recharge, (2) deducting the reduction in net recharge from its Storage and Recovery account, (3) recharge additional water to mitigate reductions in net recharge, (4) construct facilities in the southern part of the basin to eliminate the reduction of net recharge due to Storage and Recovery Programs, (5) a combination of (1) through (4), and (6) the implementation of a monitoring program to verify the effectiveness of the mitigation actions. The operation of certain facilities proposed as part of the OBMPU can be used to implement these mitigation actions. | This measure shall be implemented once a Storage and Recovery Program application has been received. The mitigation developed, depending on whether it applies to operations or construction related constraints, shall be implemented during the design phase, during construction and/or shall be carried out through operations of the project. Any measures that shall be implemented during construction shall be included in the construction contract as a contract specification. | A copy of mitigation identified to mitigate potential and actual losses of net recharge shall be retained in the project file alongside the application. Additionally, a copy of the construction contract and final design for each project shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Watermaster and Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Hydrolog | gy and Water Quality | | |
| HYD-7: | Watermaster shall estimate the projected impacts that each Storage and Recovery Program may have on Hydraulic Control and review these impacts and develop mitigation requirements for the proposed Storage and Recovery Program. The Storage and Recovery Program Applicant (Implementing Agency) will develop mitigation measures pursuant to the requirements established by Watermaster and MM HYD-8; these measures shall be incorporated into the Applicant's Storage and Recovery Program application. Upon approval by Watermaster, these mitigation measures shall be incorporated into the Storage and Recovery Program storage agreement. Applications that do not adequately mitigate adverse impacts on hydraulic control, which will be determined by Watermaster, shall not be accepted and therefore will not be developed. | This measure shall be implemented once a Storage and Recovery Program application has been received. The mitigation developed, depending on whether it applies to operations or construction related constraints, shall be implemented during the design phase, during construction and/or shall be carried out through operations of the project. Any measures that shall be implemented during construction shall be included in the construction contract as a contract specification. | A copy of report prepared by Watermaster, as well as the Storage and Recovery Program storage agreement shall be retained in the project file alongside the application. Additionally, a copy of the construction contract and final design for each project shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Watermaster and Implementing Agency | |

| Mitigation Measure | Implementation Schedule | Verification |
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| Hydrology and Water Quality HYD-8: To mitigate for potential impacts on Hydraulic Control caused by a proposed Storage and Recovery Program Application (as described above under HYD-7), the Watermaster's comprehensive monitoring and modeling that assesses the state of Hydraulic Control in Chino Basin shall be used to estimate groundwater outflow from Chino North to the Santa Ana River, assess the state of Hydraulic Control, determine if the Storage and Recovery Program will cause a loss of hydraulic control, and develop mitigation requirements to mitigate for impacts to the state of Hydraulic Control. Potential mitigation includes, but is not limited to: (1) modifying the put and take cycles to minimize discharges to the Santa Ana River and maintain Hydraulic Control, (2) construct facilities in the southern part of the basin to minimize discharges to the Santa Ana River and maintain Hydraulic Control, (3) a combination of (1) and (2), and (4) the implementation of a monitoring program to verify the effectiveness of the mitigation actions. The Project Description contains facilities and their operations that can be used to implement these mitigation actions. The operation of certain facilities proposed as part of the OBMPU can be used to implement these mitigation actions. | This measure shall be implemented once a Storage and Recovery Program application has been received. The mitigation developed, depending on whether it applies to operations or construction related constraints, shall be implemented during the design phase, during construction and/or shall be carried out through operations of the project. Any measures that shall be implemented during construction shall be included in the construction contract as a contract specification. | A copy of mitigation identified to mitigate impacts to hydraulic control shall be retained in the project file alongside the application. Additionally, a copy of the construction contract and final design for each project shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | Responsible Party | Status / Date / Initials |
| | Watermaster and Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Hydrolog HYD-9: | Watermaster shall review each Storage and Recovery Program application, and estimate the surface and ground water systems response (estimate the potential for water quality degradation). Watermaster shall then prepare a report that describes the response and potential MPI to the Chino Basin, and shall develop mitigation requirements to mitigate MPI caused by the proposed Storage and Recovery Program. The Storage and Recovery Program Applicant (Implementing Agency) will develop mitigation measures pursuant to these requirements established by the Watermaster and pursuant to MM HYD-10; these measures shall be incorporated into their Storage and Recovery Program application. Upon approval by Watermaster, these mitigation measures will be incorporated into the Storage and Recovery Program storage agreement. Applications that do not adequately mitigate the potential for water quality degradation, which will be determined by the Watermaster, shall not be accepted and therefore will not be developed. | This measure shall be implemented once a Storage and Recovery Program application has been received. The mitigation developed, depending on whether it applies to operations or construction related constraints, shall be implemented during the design phase, during construction and/or shall be carried out through operations of the project. Any measures that shall be implemented during construction shall be included in the construction contract as a contract specification. | A copy of report prepared by Watermaster, as well as the Storage and Recovery Program storage agreement shall be retained in the project file alongside the application. Additionally, a copy of the construction contract and final design for each project shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Watermaster and Implementing Agency | |

| Mitigation Measure | Implementation Schedule | Verification |
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| Hydrology and Water Quality HYD-10: To mitigate potential water quality degradation caused by a proposed Storage and Recovery Program Application (as described above under HYD-9), the data gathered through Watermaster's comprehensive groundwater-quality monitoring shall be used to identify changes in the direction and velocity for each plume that can be attributed to a Storage and Recovery Program that may impact its remediation or the water quality at wells, and to develop mitigation requirements to mitigate for any impacts related to the change in direction or velocity attributed to a Storage and Recovery Program. Potential mitigation includes, but is not limited to: (1) modifying the put and take cycles to minimize changes in the | Implementation Schedule This measure shall be implemented once a Storage and Recovery Program application has been received. The mitigation developed, depending on whether it applies to operations or construction related constraints, shall be implemented during the design phase, during construction and/or shall be carried out through operations of the project. Any measures that shall be implemented during construction shall be included in the construction contract as a contract specifi- | Verification A copy of mitigation identified to mitigate impacts to related to changes in the direction and velocity for each plume shall be retained in the project file alongside the application. Additionally, a copy of the construction contract and final design for each project shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| plume's direction and velocity that may impact remediation, (2) constructing facility improvements to mitigate impacts on existing remediation, or (3) a combination of (1) and 2, and (4) the implementation of a monitoring program to verify the effectiveness of the mitigation actions. The operation of certain facilities proposed as part of the OBMPU can be used to implement these mitigation actions. | cation. | in the project me. |
| | Responsible Party | Status / Date / Initials |
| | Watermaster and Implementing Agency | |

| Mitigation Measure | Implementation Schedule | Verification |
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| Hydrology and Water Quality | | |
| HYD-11: Watermaster shall periodically review current and projected Basin conditions and shall compare this information to the projected basin conditions assumed in the evaluation of the Storage and Recovery Program application process, compare the projected Storage and Recovery Program operations to actual Storage and Recovery Program operations. The Watermaster shall then make findings regarding the efficacy of the mitigation program and requirements required herein and by the Storage and Recovery Program storage agreements. Based on Watermaster's review and subsequent findings, where applicable, Watermaster shall require changes and/or modifications in the Storage and Recover Program storage agreements that will adequately mitigate MPI and related adverse impacts. The Watermaster shall continue to determine what Programs and Projects should be implemented or should be rejected based on their potential to contribute to or cause MPI or other adverse impacts to the Basin. | This measure shall be implemented on an ongoing basis throughout the life of the OBMPU. Storage agreement modifications shall occur when the Watermaster has made a determination that such changes are required. Any mitigation developed, depending on whether it applies to operations or construction related constraints, shall be implemented during the design phase, during construction and/or shall be carried out through operations of the project. Any measures that shall be implemented during construction shall be included in the construction contract as a contract specification. | A copy of the findings made by Watermaster, any changes in storage agreements, and any modified mitigation identified to mitigate impacts to the Basin shall be retained in the project file alongside the application. Additionally, a copy of the construction contract and final design for each project shall be retained in the project file. Verification of implementation shall be based on field inspections by IEUA, Watermaster, Watermaster Stakeholders/Implementing Agencies inspection personnel that verify that the requirements in this measure have been completed. Field notes from inspections shall be retained in the project file. |
| | Responsible Party | Status / Date / Initials |
| | Watermaster and Implementing Agency | |

| Mitigation Measure | Implementation Schedule | Verification |
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| Hydrology and Water Quality | | |
| HYD-12: Prior to the commencement of construction of any OBMPU project that will disturb less than one acre (i.e., that is not subject to the California Construction Stormwater General Permit), the Watermaster and/or-Implementing Agency shall require implementation of and construction contractor(s) shall select best management practices (BMPs) applicable to well development sites and any other OBMPU Projects that are less than one acre in size. BMPs shall include activities on each site to achieve a reduction in pollutants from stormwater discharge to the maximum extent practicable during the construction of each OBMPU facility, and to control urban runoff after each OBMPU facility is constructed and the well (if approved for operation post well testing) or other OBMPU facility is in operation. Examples of BMP(s) that would achieve a reduction in pollutants include, but are not limited to: The use of silt fences or coir rolls; The use of temporary stormwater desilting or retention basins; The use of water bars to reduce the velocity of stormwater runoff; The use of wheel washers on construction equipment leaving the site; The washing of silt from public roads at the access point to the site to prevent the tracking of silt and other pollutants from the site onto public roads; The storage of excavated material shall be kept to the minimum necessary to efficiently perform the construction activities required. Excavated or stockpiled material shall not be stored in water courses or other areas subject to the flow of surface water; and Where feasible, stockpiled material shall be covered with waterproof material during rain events to control erosion of | This measure shall be implemented during construction and shall be included in the construction contract as a contract specification. | A copy of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by the Watermaster and/or the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| soil from the stockpiles. | | |
| | Responsible Party | Status / Date / Initials |
| | Watermaster and/or Implementing Agency | |

| Mitigation Measure | Implementation Schedule | Verification |
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| Hydrology and Water Quality HYD-13: Implementation of a Grading and Drainage Plan. Prior to commencement of construction of project facilities, the Watermaster and/or Implementing Agency shall require that the Project Proponent submit either: (1) Prepare a No Net Discharge Report demonstrating that within each facility, surface runoff shall be collected and retained (for use onsite) or detained and percolated into the ground on the site such that site development results in no net increase in offsite stormwater flows. Detainment shall be achieved through Low Impact Development techniques whenever possible, and shall include techniques that remove the majority of urban storm runoff pollutants, such as petroleum products and sediment. The purpose of this measure is to remove the onsite contribution to cumulative urban storm runoff and ensure the discharge from the sites is treated to reduce contributions of urban pollutants to downstream flows and to groundwater; or, where it is not possible to eliminate stormwater flows off of a site or where otherwise appropriate, the Watermaster and/or Implementing Agency shall: (2) 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 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 | Implementation Schedule The No Net Discharge Report or Grading Plan and Drainage Plan shall be developed prior to construction, and the measures called for shall be implemented during construction and shall be included in the construction contract as a contract specification. | A copy of the No Net Discharge Report or Grading Plan and, Drainage Plan and construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by Watermaster and/or the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| accordance with local requirements. | Responsible Party | Status / Date / Initials |
| | Implementing Agency | |

| Mitigation Measure | Implementation Schedule | Verification |
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| Hydrology and Water Quality HYD-14: To minimize potential ground disturbances associated with installation and maintenance of (a) proposed monitoring equipment on, or (b) groundwater treatment at existing wells, the equipment and treatment facilities shall be installed within or along existing disturbed easements or right-of-way or otherwise disturbed areas, including access roads and pipeline or existing utility easements, whenever feasible. | This measure shall be implemented both during project specific design and during construction, and shall be included in the construction contract as a contract specification. | A copy of the construction contract shall be retained in the project file. Verification of implementation shall be based on field inspections by Implementing Agency inspection personnel that verify that the requirements in this measure have been completed. Field notes from inspections shall be retained in the project file. |
| | Responsible Party | Status / Date / Initials |
| | Implementing Agency | |

| Mitigation Measure | Implementation Schedule | Verification |
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| For long-term mitigation of site disturbances at OBMPU facility locations, all areas not covered by structures shall be covered with hardscape (concrete, asphalt, gravel, etc.), native vegetation and/or man-made landscape areas (for example, grass). Revegetated or landscaped areas shall provide sufficient cover to ensure that, after a two-year period, erosion will not occur from concentrated flows (rills, gully, etc.) and sediment transport will be minimal as part of sheet flows. These measures and requirements shall be applied to disturbed areas of abandoned well sites proposed for closure. | This measure shall be implemented both during project specific design and during construction, and shall be included in the construction contract as a contract specification. | A copy of the construction contract and final design for each project shall be retained in the project file. Verification of implementation shall be based on field inspections by Implementing Agency inspection personnel that verify that the requirements in this measure have been completed. Field notes from inspections shall be retained in the project file. |
| | Responsible Party | Status / Date / Initials |
| | Implementing Agency | |

| Mitigation Measure | Implementation Schedule | Verification |
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| Hydrology and Water Quality HYD-16: Prior to implementation commencement of construction of any recharge or stormwater retention basin projects as either existing on new basins, the Implementing Agency shall require submittal of an Operational Risk Management Plan that will be established prepared to the satisfaction of San Bernardino County Flood Control District (SBCFCD), Riverside County Flood Control District (RCFCD) Division of Safety of Dams (DSOD), and/or Division of Safety, as appropriate. This Plan shall be created specifically for each individual basin to ensure the safety of surrounding property and people from undue risks associated with water-related hazards (i.e. flooding). The Operational Risk Management of the construction of the construct | This measure shall be implemented both during project specific design and during construction, and shall be included in the construction contract as a contract specification. The management plan shall be developed before the recharge or stormwater retention basin commences operation. | A copy of the management plan and construction contract and final design for each project shall be retained in the project file. Verification of implementation shall be based on field inspections by Implementing Agency inspection personnel that verify that the requirements in this measure have been completed. Field notes from inspections shall be retained in the project file. Correspondence with SBCFCD or RCFCDWCD pertaining to this issue shall be retained in the project file. |
| water-related nazards (i.e. flooding). The Operational Risk Manament Plan will firmly establish a priority of flood-control functions of and above recharge or retention-related operations. Weather forecasts of upcoming storm events will be carefully monitored and the event of a significant forecasted storm-event, water deliveries the basins will be ceased until further notice is received from SBCFCD or RCFCD that it is safe for deliveries to resume. Additionally, each SBCFCD or RCFCD basin's will specific management plan will have a be developed, so as-to coordinate flood control along with surface water recharge or retention. This mitigation measure will ensure that people and property are not subject to additional risk associated with water-related hazards in Basin, and will allow SBCFCD or RCFCD to make full utilization of the basin's flood control capacity in the event of a storm. | in <u>o</u> | this issue shall be retained in the project file. |
| | Responsible Party | Status / Date / Initials |
| | Implementing Agency | |

| Mitigation Measure | Implementation Schedule | Verification |
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| Hydrology and Water Quality HYD-17: Prior to cleaning out, refurbishing or capping a well, samples will be obtained and chemically analyzed to ensure that the discharge does not contain any contaminants exceeding regulatory thresholds. If contaminants are discovered, then they shall be removed or lowered below the regulatory threshold prior to discharge to the environment. Discharge of non-stormwater into storm drains will require a NPDES permit from the Santa Ana Regional Water Quality Control Board (RWQCB). | This measure shall be implemented during prior to cleaning out, refurbishing or capping a well and shall be included in the construction contract as a contract specification. | A copy of the steps taken pertaining to cleaning out, refurbishing or capping a well shall be documented and retained in the project file, as should the construction contract. Should a NPDES permit be required, it shall be retained in the project file. Verification of implementation shall be based on field inspections by Implementing Agency inspection personnel that verify that the requirements in this measure have been completed. Field notes from inspections shall be retained in the project file. |
| | Responsible Party | Status / Date / Initials |
| | Implementing Agency | |

| Mitigation Measure | Implementation Schedule | Verification |
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| Hydrology and Water Quality HYD-18: All new and expanded water treatment facilities associated with the OBMPU shall ensure that any brine generated from the water treatment process that cannot be otherwise treated on-site is disposed of in accordance with state and local regulations—such as through disposal to a brine line (Non-Reclaimable Wastewater System, Etiwanda Wastewater Line, and Inland Empire Brine Line, etc.)—to prevent brine from being discharged into the local stormwater collection system. | This measure shall take place during the design phase for future new and expanded water treatment facilities projects. | A copy of the design documenting proper brine disposal shall be retained in the project file. Site inspections shall be performed to ensure the proper procedures pertaining to brine disposal are adhered to. |
| | Responsible Party | Status / Date / Initials |
| | Implementing Agency | |

| Mitigation Measure | Implementation Schedule | Verification |
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| Hydrology and Water Quality HYD-19: The Watermaster and/or Implementing Agency shall verify that any given OBMPU facility (excepting those located at existing facilities [wells, water treatment plants, etc.] and excepting the installation of in-line flow meters or other facilities required to be installed in a channel, such as diversion structures) is located outside of the 100-year floodplain by utilizing the FEMA FIRM panels for the selected area prior to project implementation. If a given project is located outside of the 100-year floodplain, then no subsequent CEQA documentation specific to floodplains are required. However, if a project is located within the 100-year floodplain either (1) a new location outside of the 100-year floodplain shall be selected, or (2) a | Verification of the site's location shall occur during the design phase for a given project. Where applicable, the second tier CEQA documentation shall be completed prior to construction of the given facility. | Where applicable, a copy of the subsequent CEQA documentation for the individual project shall be retained in the project file. Verification shall be based on the submission of the final CEQA documentation to the Implementing Agency. |
| second tier CEQA evaluation shall be completed that would address the given project's location within the 100-year floodplain. | Responsible Party | Status / Date / Initials |
| | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| | ultural Resources | | |
| TCR-1 | Where a future discretionary project requiring a Negative Declaration or follow-on EIR is proposed within an existing facility that has been totally disturbed due to it undergoing past engineered site preparation (such as a well site, water treatment facility, or wastewater treatment plant site), the agency implementing the OBMPU project will notify the three Tribes (Gabrieleño, Morongo, and San Manuel) under AB 52 but will point out that the project falls under the OBMPU evaluation and that the site is fully developed. No further cultural resources or TCR investigation will be conducted unless a Tribe identifies specific TCR resources/values at such site(s). | This measure shall be implemented prior to the commencement of construction for a given project. | A copy of the correspondence to the three tribes shall be retained in the project file(s). Verification shall be based on a copy of the correspondence that shall be provided to the Implementing Agency. |
| | | Responsible Party | Status / Date / Initials |
| | | IEUA, Watermaster, or Watermaster Stakeholders/Implementing Agencies | |

| | Mitigation Measure | Implementation Schedule | Verification |
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| Tribal Co | ultural Resources | | |
| TCR-2 | Where a future discretionary project requiring a Negative Declaration or follow-on EIR is proposed at an undisturbed site, the agency implementing the OBMPU project will initiate AB 52 consultation and a records search at the appropriate California Historical Resources Information System (CHRIS) center with at least a 0.5-mile search radius. The Native American Heritage Commission (NAHC) shall also be contacted to identify tribal representatives to contact as part of a Phase 1 cultural resources investigation. Finally, a site-specific survey will be conducted by a qualified professional archaeologist. During the survey, the archaeologist shall engage the designated tribal representative(s) based on responses from the NAHC consultation among the three Tribes. | This measure shall be implemented by the Implementing Agency prior to construction. | A copy of the correspondence to the three tribes, the results of the records search, and the site specific survey shall be retained in the project file(s). The designated tribal representative shall be documented in the project file. Documentation of correspondence with the NAHC shall be retained in the project file. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

| Mitigation Measure | Implementation Schedule | Verification |
|---|---|--|
| Tribal Cultural Resources TCR-3 If the AB 52 consultation results in a request to consult from one or more of the three Tribes, and the consultation results in a request for monitoring from one or more of the Tribes, the agency implementing the OBMPU project shall meet with the Tribe or Tribes and develop a "Cultural Resources Monitoring and Treatment Plan" (Plan) for the specific project. This Plan shall follow the general outline of the Plan provided in the Appendices of this document. If more than one Tribe requests field monitoring participation, the agency shall ask the requesting Tribes to determine which one will provide the monitor(s), as only a single Tribe's monitor(s) shall be funded in the monitoring effort. If the Tribes cannot identify a single tribal monitor, the agency shall select a single tribal monitor to monitor a project after reviewing qualifications of the recommended monitors. | This measure shall be implemented by the Implementing Agency prior to construction. The meeting with the Tribe shall occur after the Tribe(s) request to consult. The Plan shall be developed prior to initiation of construction and shall be incorporated as a specific measure into the construction contract. | A copy of the correspondence between the tribes and the Implementing agency, and the Cultural Resources Monitoring and Treatment Plan, shall be retained in the project file(s). The designated Tribe that will be monitoring the project shall be documented in the project file. Monitoring activities shall be included as a specific measure in the construction contract, which shall be retained in the project file. Field notes generated by the monitor shall be retained in the project file. Verification of implementation shall be based on field inspections by the Implementing Agency. Field notes from inspections shall be retained in the project file. |
| | Responsible Party | Status / Date / Initials |
| | Implementing Agency | |

| | Mitigation Measure | Implementation Schedule | Verification |
|----------------------|--|--|---|
| Utilities UTIL-5: | And Service Systems For future OBMPU Projects that do not have access to electrical or natural gas connections in the immediate vicinity (defined here as a 500-foot buffer from a given project site), and will require either extension of infrastructure or creation of new infrastructure to meet electricity and/or natural gas needs at a future OBMPU Facility site, subsequent CEQA documentation shall be prepared that fully analyzes the impacts that would result from extension or development of electrical energy or natural gas infrastructure. | Where applicable, the second tier CEQA documentation shall be completed prior to construction of the given facility. | Where applicable, a copy of the subsequent CEQA documentation for the individual project shall be retained in the project file. Verification shall be based on the submission of the final CEQA documentation to the Implementing Agency. |
| | | Responsible Party | Status / Date / Initials |
| | | Implementing Agency | |

FACTS AND FINDINGS REGARDING FINAL SUBSEQUENT ENVIRONMENTAL IMPACT REPORT FOR THE CHINO BASIN WATERMASTER OPTIMUM BASIN MANAGEMENT PROGRAM UPDATE (SCH# 2020020183) AND CANDIDATE STATEMENT OF OVERRIDING CONSIDERATIONS REGARDING THE ENVIRONMENTAL EFFECTS FROM IMPLEMENTING

THE OPTIMUM BASIN MANAGEMENT PROGRAM UPDATE

A. <u>INTRODUCTION</u>

The Inland Empire Utilities Agency (IEUA), in consultation with Chino Basin Watermaster (Watermaster) and Chino Groundwater Basin stakeholders, has prepared the Final Subsequent Environmental Impact Report (FSEIR or Final SEIR), State Clearinghouse (SCH) #2020020183, to analyze the Optimum Basin Management Program Update (referred to interchangeably herein as the "OBMPU," the "Project," or the "Program"). The OBMPU updates the Optimum Basin Management Plan (OBMP), and the FSEIR analyzes the environmental impacts of the OBMPU compared to what was previously analyzed in the 2000 Final Program Environmental Impact Report (OBMP PEIR), 2010 Peace II Supplemental EIR (2010 OBMP SEIR), and 2017 Addendum adopted to provide a temporary increase in Safe Storage Capacity (SSC) (2017 Addendum).

IEUA makes the findings described below. These findings are based on the facts presented in public hearings on this matter, presented in the staff reports, environmental documents, and other information presented to the IEUA and summarized in this document. A statement of overriding considerations is presented at the end of these facts and findings in compliance with Section 15093 of the State CEQA Guidelines. The total action that may be implemented by approval of the proposed OBMPU consists of all of the actions outlined in the FSEIR. The IEUA Board considered the OBMPU as a modification of the Optimum Basin Management Program (OBMP) which was based on the Peace I Agreement (Peace I) adopted by Watermaster, IEUA, and stakeholders in the Chino Basin in the year 2000.

IEUA in consultation with Watermaster concluded that a Subsequent EIR should be prepared to analyze the potential significant adverse environmental impacts that may result from implementing the OBMPU. IEUA based this determination to prepare a subsequent EIR for the OBMPU on the following factors: First, IEUA compared the proposed activities of the Project with those identified in the OBMP PEIR, Peace II SEIR, and 2017 Addendum. Second, IEUA determined that certain circumstances had changed in the 20 years since the adoption of the OBMP PEIR, and these changes in circumstances could result in a significant environmental impact. Finally, a decision was made to update the environmental database for continued implementation of the OBMP as modified by the OBMPU.

The FSEIR has been prepared as the complete environmental document that encompasses all the issues addressed in the Initial Study and the Draft SEIR (DSEIR) that were identified as having a potential to cause significant adverse environmental impacts. The FSEIR serves as an informational document intended for use by IEUA, Watermaster and Chino Groundwater Basin stakeholders (interested and responsible agencies and parties), and the general public in evaluating the potential environmental effects of implementing this Project. Based on the information in the OBMPU Initial Study, IEUA concluded that potential impacts associated with

implementation of this Project were less than significant or could be mitigated to a less than significant level with implementation of mitigation measures provided for all issues evaluated except; Air Quality, Biological Resources, Cultural Resources, Energy, Greenhouse Gas, Hydrology and Water Quality, Tribal Cultural Resources, and parts of Utilities and Service Systems. IEUA then prepared the Draft Subsequent Environmental Impact Report (DSEIR) to address these potentially significant issues.

Based upon data provided in the DSEIR, it was concluded that the Project could result in significant adverse impacts to biological resources because of the potential that a future OBMPU facility may be developed within an area containing biological resources that cannot be avoided, even at the design level. Therefore, the Program's contribution is considered cumulatively considerable, and would result in a significant or cumulatively considerable adverse impact under Biological Resources. Additionally, it was concluded that, even with the implementation of mitigation measures designed to reduce greenhouse gas emissions, the Program would still exceed the SCAQMD screening thresholds of 3,000 MTCO2e/yr and 10,000 MTCO2e/yr. Thus, exceedances of applicable SCAQMD regional GHG thresholds are considered significant and unavoidable, and OBMPU could create a significant cumulative impact to global climate change over the 30 year planning period. Finally, it was concluded that the proposed OBMPU could result in significant impacts related to the construction-related GHG emissions that would result from the extension of water-related infrastructure, as such water infrastructure impacts under Utilities and Service Systems are considered significant and unavoidable.

All other potential environmental issues evaluated in the DSEIR were determined to be less than significant either without mitigation or with implementation of the mitigation measures identified in the OBMPU Initial Study and the FSEIR.

Approval and implementation of the OBMPU over the next 30 years constitutes the "Project" that was evaluated in the DSEIR. It is the total Project outlined in Chapters 2 and 3 of the DSEIR that constitutes the Project considered in this FSEIR.

B. ENVIRONMENTAL REVIEW

The entire administrative record, including the OBMPU FSEIR and DSEIR, public comments and responses, IEUA Staff reports, and these facts, findings and statement of overriding considerations, serve as the basis for the IEUA's environmental determination. The IEUA Board's environmental determination is that the OBMPU FSEIR addresses all of the potential impacts from implementing the Project as outlined above and defined in detail in Chapter 3 of the OBMPU FSEIR. The detailed environmental impacts and proposed mitigation measures for the future development of the Project's facilities are presented in Chapter 4 of the OBMPU FSEIR, in the Chapter 1 Executive Summary and in the response to comments which is part of the OBMPU FSEIR. Alternatives to the Project are discussed in Chapter 5 of the OBMPU FSEIR. Evaluations of growth inducement, cumulative impacts, and irreversible commitment of resources are provided in Chapter 6, Topical Issues, of the OBMPU FSEIR. The findings outlined in the following section of this document contain a summary of the facts used in making findings and determinations for each environmental issues addressed in the OBMPU FSEIR.

1. Consideration and Certification of the FSEIR: The CEQA environmental review process for the OBMPU was initiated in February 2020 with the release of a Notice of Preparation (NOP) for public review and comment. The initial NOP review period began on February 10, 2020 and ended on March 10, 2020. The NOP was distributed to

responsible and interested agencies and organizations and the State Clearinghouse, and was provided by email to the Watermaster's mailing list. A scoping meeting was held on February 27, 2020 in the IEUA Board Room, in the City of Chino, California.

As previously indicated, this FSEIR has been prepared to address the issues identified above in Section A and provide an informational document intended for use by the Watermaster, IEUA, interested and responsible agencies and parties, and the general public in evaluating the potential environmental effects of implementing this Project. Technical documents relied upon for the analyses are provided in the appendices in Volume 2 of the DSEIR. The air quality and greenhouse gas emissions forecasts, and energy analysis were provided by Urban Crossroads; the cultural resources report was provided by CRM TECH; the hydrology and water quality analyses were provided by Wildermuth Environmental; and the biological analysis was provided by Jacobs. The NOP identified the full scope of environmental issues for focus in a Draft SEIR. After review of the NOP comments, the scope of the Draft SEIR (DSEIR) was finalized and no additional issues were added to the scope of the DSEIR beyond those mentioned in Section A of this document.

The DSEIR was released to the public for review and comment on March 27, 2020. The mandatory 45-day review period closed on May 11, 2020. A total of seven (7) comment letters were received on the DSEIR.

The FSEIR dated July 2, 2020 was transmitted to all interested parties, including public agencies that commented on the DSEIR, to fulfill the requirements of Public Resources Code Section 21092.5. The OBMPU FSEIR and all supporting material has been made available to the IEUA Board and a summary of the FSEIR and its findings presented directly to the Board for consideration in making its decision to certify the OBMPU FSEIR and approve the OBMPU.

The IEUA Board makes the following certifications pursuant to the California Environmental Quality Act Guidelines Section 15090. The Board finds and certifies that the OBMPU FSEIR has been completed in compliance with CEQA. The Board certifies that all voting members have reviewed and considered the FSEIR prior to approving the proposed OBMPU Project. In addition, all voting Board members have reviewed and considered the additional information presented at or prior to the public hearing on July 15, 2020. The Board further finds and certifies that the FSEIR reflects the independent judgment and analysis of IEUA, the Board and its Staff and the OBMPU FSEIR is adequate to make a decision for this Project.

- **2. Full Disclosure:** The IEUA Board finds and certifies that the OBMPU FSEIR constitutes a complete, accurate, adequate and good faith effort at full disclosure under CEQA.
- 3. Location of Record Proceedings: The documents and other materials which constitute the record of proceeding upon which this decision is based are in the custody of the IEUA located at 6075 Kimball Avenue, Chino, CA 91708. This information is provided in compliance with Public Resources Code Section 21081.6(a)(2).
- 4. Inland Empire Utilities Agency as Lead Agency under CEQA: The Inland Empire Utilities Agency is the "lead agency" as defined by CEQA Guidelines Section 15050. In compliance with its authority and responsibility for overseeing wastewater treatment and imported water for the Chino Basin, IEUA has prepared the Draft and Final SEIRs for the

Project, compiled these candidate Facts, Findings and Statement of Overriding Considerations in accordance with the CEQA Guidelines and the Public Resources Code, and will carry out all other duties and responsibilities required of a lead agency under the Public Resources Code and the State CEQA Guidelines.

C. FINDINGS

Presented below are the environmental findings made by IEUA after its review of the documents referenced above; and consideration of written and oral comments on the Project at public hearings, including all other information provided during the decision-making process. These findings provide a summary of the information contained in the FSEIR, related technical documents, and the public hearing record that have been referenced by the IEUA Board in making its decision to approve the OBMPU.

I. NON-SIGNIFICANT ENVIRONMENTAL CONSIDERATIONS THAT WILL HAVE NO IMPACT

The following issues were identified in the OBMPU FSEIR as having no potential to cause a significant impact. All of these issues were fully addressed and substantiated in the FSEIR. All the following references are to findings in the OBMPU FSEIR.

- 1. Agricultural and Forestry Resources: Impact (c)
- c) Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?
- <u>Finding:</u> No Impact (pg. 127, Initial Study [IS], [Appendix 8.2, Final Subsequent Environmental Impact Report (FSEIR)])
- <u>Facts:</u> The Chino Basin does not include zoning designations for forest land, timberland, or timberland zoned Timberland Production. The Project area borders the San Bernardino National Forest, but it does not overlap with the Chino Basin boundaries.

With no acreage designated for timberland development in the Chino Basin by any of the local jurisdictions, no potential exists to adversely impact timberland through conflicts with such land use designation.

- 2. Air Quality: Impacts (a) and (d)
- a) Would the project conflict with or obstruct implementation of the applicable air quality plan?

<u>Finding:</u> Less Than Significant Impact (pg. 4-21 to 4-22, FSEIR)

The OBMPU would be consistent with the South Coast Air Quality Management District (SCAQMD) Consistency Criterion No. 1 (The proposed Project will not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations or delay the timely attainment of air quality standards or the interim emissions reductions specified in the Air Quality Management Plan (AQMP), and No. 2 (The Project will not exceed the

assumptions in the AQMP based on the years of Project build-out phase), and as such would not result in or cause National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) violations. The Project does not propose a land use development but rather involves pump station, well construction, monitoring and associated improvements. The Project is therefore considered to be consistent with the AQMP, and therefore the Project would have a less than significant potential to conflict with or obstruct implementation of the applicable air quality plan and no mitigation is required.

d. Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Finding: Less Than Significant Impact (pg. 4-34 to 4-35, FSEIR)

Facts:

Potential odor sources associated with the proposed Project may result from construction equipment exhaust during construction activities and the temporary storage of typical solid waste (refuse) associated with the proposed Project's uses. Standard construction requirements would minimize odor impacts from construction. The construction odor emissions would be temporary, short-term, and intermittent in nature and would cease upon completion of the respective phase of construction and is thus considered less than significant. It is expected that Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with the lead agency's solid waste regulations. The Project would be required to comply with SCAQMD Rule 402 to prevent occurrences of public nuisances. Therefore, odors associated with the proposed Project construction and operations would be less than significant and no mitigation is required.

- 3. Cultural Resources: Impact (c)
- c) Would the project disturb any human remains, including those interred outside of formal cemeteries?

Finding: Less Than Significant Impact (pg. 4-99 to 4-100, FSEIR)

Facts:

Given the large size of the Chino Basin, there is a potential that a given OBMPU Project site could be located in a sensitive area. As such, in the event that human remains are inadvertently discovered during Project construction activities, the human remains could be inadvertently damaged, which could result in a significant impact. Implementation of the Project must comply with provisions of state law regarding discovery of human remains, including PRC Section 5097.98 and Health and Safety Code Section 7050.5. If human remains are accidentally exposed during site grading, Section 7050.5 of the California Health and Safety Code requires a contractor to immediately stop work in the vicinity of the discovery and notify the County Coroner, who must follow procedures to ensure the most likely descendant (MLD) has an opportunity to be consulted. Since this process is mandatory, no additional mitigation is required to ensure that the impacts to human remains will be less than significant.

- 4. Geology and Soils: Impacts (a[ii]) and (e)
- a(ii). Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: (ii) Strong seismic ground shaking?

<u>Finding:</u> Less Than Significant Impact (pg. 145-146, IS, [Appendix 8.2, FSEIR])

Facts:

As addressed under issue a(i) above, the Chino Basin is located within a region that is seismically active. In the event of an earthquake in Southern California, some seismic ground shaking would likely be experienced in the Project area sometime during the operational life of the facilities proposed as part of the OBMPU. Ground shaking could result in structural damage to new facilities, which in turn could affect operation of related systems. Some of the proposed facilities are non-habitable or will only require visits on an as-needed basis; however, the OBMPU proposes upgrades and improvements to existing facilities, and new facilities that currently or would require full time employees on-site. Therefore, structural and mechanical failure of facilities onset by seismic ground shaking could potentially threaten the safety of on-site workers.

The structural elements of proposed OBMPU facilities would undergo appropriate design-level geotechnical evaluations prior to final design and construction as required to comply with the California Building Code (CBC). The geotechnical engineer, as a registered professional with the State of California, is required to comply with the CBC and local codes while applying standard engineering practice and the appropriate standard of care required for projects in the San Bernardino and Riverside County areas. The California Professional Engineers Act (Building and Professions Code Sections 6700- 6799), and the Codes of Professional Conduct, as administered by the California Board of Professional Engineers and Land Surveyors, provides the basis for regulating and enforcing engineering practice in California. In addition, pipelines would be constructed according to industry standards using American Water Works Association (AWWA) guidelines. Compliance with these construction and building safety design standards would reduce potential impacts associated with ground shaking to a level of less than significant.

e. Would the project have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

Finding: No Impact (pg. 153, IS, [Appendix 8.2, FSEIR])

Facts:

Implementation of proposed OBMPU facilities would require the use of septic systems. The majority of facilities would be upgrades to existing infrastructure, wells, pipelines, and other water conveyance facilities that do not require septic systems. There is no planned use of on-site septic systems for the Project facilities. Therefore, no impact would occur related to soil suitability for septic systems.

5. Land Use / Planning

a. Would the project physically divide an established community?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 203, IS, [Appendix 8.2, FSEIR])

Facts:

The Project does not propose any action that could physically divide an established community. The physical division of an established community generally refers to the construction of features such as an interstate highway, railroad tracks, or permanent removal of a means of access, such as a local road or bridge that would impact mobility within an existing community or between a community and outlying area. At the Project specific level, the exact locations of the many of the proposed OBMPU have not yet been determined; however, there are no features of these facilities that would create a barrier or physically divide an established community. No impacts are anticipated.

6. Population and Housing: Impact (a)

a. Would the project induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

<u>Finding:</u> Less Than Significant Impact (pg. 241, IS, [Appendix 8.2, FSEIR])

Facts:

The facilities proposed to be implemented by the OBMPU are intended to ensure water supply reliability for the water agencies utilizing groundwater from the Chino Basin. However, regardless of whether the OBMPU is implemented, individual water agencies have identified individual actions that they can implement to meet future water demands within the Chino Basin. The OBMPU is growth accommodating, but it does not in and of itself create opportunities for additional people to move to the region, nor to construct additional facilities beyond those previously under consideration to accommodate the population envisioned within the applicable general plan at buildout within each community located in the Chino Basin. Based on this analysis, there is a less than significant potential for implementation of the OBMPU to cause or contribute to significant adverse population growth inducement within the Chino Basin.

Construction and operational of OBMPU facilities will require employees to accomplish each of these activities. Given the large area that makes up the Chino Basin, it is reasonable to assume that many employment opportunities would be filled by workers drawn from the Chino Basin area. As such, it is assumed that there would be an adequate number of workers within the Chino Basin that could be available for construction jobs and could commute to the temporary construction jobs rather than relocate and induce growth in the area. Furthermore, the overall OBMPU is anticipated to require about 30 new employees in support of facility operations. These employees are expected to be drawn from existing population. This population increase is minimal and is within the population increase anticipated to occur within the Chino Basin of the 20- and 30-year horizon. Therefore, the implementation of the proposed facilities and the overall OBMPU

would result in less than significant impacts related to inducement of population growth.

- 7. **Public Services:** Impacts (a), (c), and (e)
- a. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services: Fire protection?

<u>Finding:</u> Less Than Significant Impact (pg. 258, IS, [Appendix 8.2, FSEIR])

Facts:

The proposed OBMPU does not include construction of new homes or businesses that would result in a direct increase in population or create a substantial number of new jobs that would result in new residents of the Chino Basin area. Operational activities associated with the proposed OBMPU facilities could require fire department service in the unlikely event of a hazardous materials emergency or accident/medical emergency at a given site. Although proposed OBMPU facilities may result in limited additional demand on fire protection services, the implementation of the HMBP (Business Plans) and/or continuation of adopted safety standards and procedures by agencies implementing the proposed OBMPU facilities would result in a nominal increase in service due to the limited number of such facilities. Any OBMPU Project requiring structures will be required to meet building codes, including those related to fire protection. The indirect increase in population and the use of hazardous materials associated with the well development would result in a nominal potential increase in fire services. As a result, no new fire facilities would be required. Therefore, no environmental effects would occur because construction of a new fire facilities would not be required.

c. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered govern- mental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services: Schools?

Finding: Less Than Significant Impact (pg. 261, IS, [Appendix 8.2, FSEIR])

Facts:

Similar to the discussion under Fire and Police Protection above, the development of OBMPU facilities will not cause a significant demand for schools. Implementation of the OBMPU is not forecast to change existing land uses or independently increase either the number of residential units located within the Study Area or the number of students generated from the Study Area beyond that which is anticipated in the local agency general plans. Operation of the proposed OBMPU facilities is not forecast to require more than a total of 30 employees. School districts in the Chino Basin have adopted classroom loading standards (number of students per classroom) and collect development fees per square foot of residential, commercial and industrial development. Because the Project is not forecast to change land uses, or create activities that can increase demand for additional school capacity beyond that which is anticipated in the jurisdiction's General Plans, and because there are adopted standards and development fees are collected for new development, no potential for adverse impacts to schools is identified. No mitigation is required for schools on behalf of OBMPU projects.

e. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered govern- mental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services: Other public facilities?

<u>Finding:</u> Less Than Significant Impact (pg. 265, IS, [Appendix 8.2, FSEIR])

Facts: Similar to the discussion under Fire and Police Protection services above, the development of the OBMPU will not cause a significant demand for or increase in library services. It is not forecast that the OBMPU would change land uses or otherwise create activities that can increase demand for or increase in library services beyond that which is anticipated in the jurisdiction's General Plans. Operation of the OBMPU facilities are anticipated to a total of about 30 employees. Additionally, it is not forecast to change land uses or otherwise create activities that can increase demand for additional library capacity services beyond that which is anticipated in local agency general plans. Libraries are currently provided by the Counties and local agencies under authority of the various jurisdictions that comprise the Chino Basin. OBMPU projects will not produce any direct demand for library capacity or contribute to indirect demand for such services. Mitigation is not required to reduce potential library capacity impacts to a level of less than significant since none is forecast to occur. Overall levels of library service will also be increased based upon the future population as characterized by demands of the local agencies. No potential for any significant demand for library services is identified and no mitigation is required.

- **8. Transportation:** Impact (b)
- b. Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?

Finding: No Impact (pg. 279, IS, [Appendix 8.2, FSEIR])

Facts:

Vehicle miles traveled (VMT) in support of infrastructure construction and operation over the next 30 years will be responsive to the need for travel during both construction and operations. Unlike a development Project, traffic in support of OBMPU facilities will be sporadic (construction and operations) and based on demand, not discretional travel associated with a residence. Extraneous travel is not forecast to be carried out in support of OBMPU infrastructure facilities during either construction or operations. Therefore, future implementation of the OBMPU has no potential to conflict with or be inconsistent with State CEQA Guidelines Section 15064.3, Subdivision 3.

II. POTENTIALLY SIGNIFICANT IMPACTS THAT CAN BE MITIGATED BELOW A LEVEL OF SIGNIFICANCE (CEQA GUIDELINES § 15091(A)(1))

Pursuant to Section 21081(a) of the Public Resources Code and Section 15091(a)(1) of the State CEQA Guidelines, the IEUA Board finds that, for each of the following significant effects identified in the FSEIR, changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant effects on as identified in the FSEIR. The significant effects and mitigation measures are stated fully in the FSEIR. These findings are explained below and are supported by substantial evidence in the record of proceedings.

1. Aesthetics:

a. Would the project have a substantial adverse effect on a scenic vista?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 111, IS, [Appendix 8.2, FSEIR])

Facts:

The most significant visual resources in the Project area are the hills and mountains surrounding the Chino Basin, pastoral landscapes in and within view of the Project area and the Prado Basin wetlands that occur in the southern portion of the Chino Basin. The predominant scenic vistas in the program area, as identified in local General Plans (Cities of Upland, Pomona, Montclair, Chino Hills, Chino, Ontario, Rancho Cucamonga, Eastvale, Jurupa Valley, Fontana, Claremont, Pomona and Counties of San Bernardino and Riverside), are: the views of the San Gabriel, San Bernardino and Santa Ana Mountains, Chino Hills, Jurupa Hills, Puente Hills and San Jose Hills, Tonner Canyon, Prado Basin, the Chino farmlands, and certain road corridors.

For all 4 Project Categories, construction was determined to result in less than significant impacts due to the temporary nature of construction. Due to the varied footprints of the types of projects proposed, as well as the speculative nature of the locations for future OBMPU projects, mitigation was required to minimize the potential for an individual project to impact a scenic vista.

The implementation of Mitigation Measure (MM) **AES-1** would ensure that the proposed facilities' contribution to cumulative scenic vista impacts would be reduced to less than cumulatively considerable by meeting the local design and landscape standards. Furthermore, MM **AES-2** would ensure that the pastoral setting that presently exists at the Mills Wetland site is not lost due to implementation of the proposed storage basin Project; this will reduce scenic vista impacts to a level of less than significant. The implementation of MM **AES-3** will ensure that impacts to scenic resources from the implementation of future regional groundwater treatment facility projects will be avoided or assessed further in future CEQA documentation.

Ultimately, with the implementation of mitigation, no permanent significant adverse effect on a scenic vista or the visual character of the area is forecast to result from implementing the Project.

b. Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 113-114, IS, [Appendix 8.2, FSEIR])

Facts:

There are roadways classified as eligible for state scenic highway status within the Chino Basin; however, there are no officially designated scenic highways. Eligible state scenic highways include: State Route (SR) 142 south of SR 71 and SR 71 south of SR 83 (Caltrans, 2016). The most significant visual resources are the hills

and mountains surrounding the Chino Basin and the pastoral landscape that occurs in the southern portion of the Chino Basin. The activity with the highest potential to conflict with local agency design guidelines is construction disturbance of the landscape. Such disturbance can be reduced to an acceptable level by landscaping or revegetating disturbed areas.

In general, many of the groundwater treatment plants, wells, reservoirs, and conveyance facilities that are likely to be implemented under the OBMPU would be installed within existing, developed water facility sites, many of which are in commercialized or industrial areas. The existing facilities are surrounded by block walls and/or chain link fences and, in some cases, vegetative visual buffers. Additionally, some of these facilities are landscaped. As such, on-site operations, including the proposed OBMPU facilities that would be installed within developed sites, would generally not be visible from off-site, and the visual character of these sites would not change. As specific facilities are proposed in the future, the associated environmental impacts will be evaluated in a subsequent Project-specific CEQA evaluation to allow a final determination on future Project's specific impacts. Such review is appropriate and consistent with utilization of a program environmental document in accordance with Sections 15162 and 15168 of the State CEQA Guidelines.

The implementation of MM **AES-4** would ensure that the proposed facilities' impacts to scenic resources, such as trees, are minimized to a level of less than significant. Furthermore, MM **AES-5** would ensure that future facilities are either not located within sites containing scenic resources or undergo subsequent CEQA documentation to fully analyze the impacts thereof.

With implementation of mitigation as discussed above, development under the OBMPU will be consistent with current general plan requirements for protecting scenic resources and scenic highway visual values. No permanent loss of significant scenic resources will result from implementing the Project.

c. Would the project, in non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning or other regulations governing scenic quality?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 116, IS, [Appendix 8.2, FSEIR])

Facts:

The proposed OBMPU facilities will utilize a variety of types of sites including existing facilities, underground systems within road- and through-ways, and new sites that may be undeveloped or highly disturbed to meet OBMPU Objectives. Installation of surface facilities has a potential to modify the existing view or visual setting at future specific Project sites which could cause a substantial negative visual impact. All facilities will be required to comply with the local jurisdiction zoning codes and other regulations governing scenic quality. However, mitigation measures are required to ensure compliance with the applicable zoning code, and to ensure that the proposed facilities will conform with design requirements established by local jurisdictions.

Although the specific Project sites will be altered, and the impacts may be considered an adverse change, the change is not considered sufficient to be characterized as a significant adverse impact due to the limited area that will be impacted at any one facility, and the fact that the pipelines are not visible once construction is complete. The visual character and quality of the Project area is not forecast to be significantly degraded. The facilities would be constructed to meet current design standards.

The implementation of MM **AES-6** would ensure compliance with the applicable zoning code. Furthermore, MM **AES-7** would ensure that future facilities will conform with design requirements established by local jurisdictions.

Based on the specific criteria identified above, the existing visual character and quality of the site will be modified, but it will be modified in a manner consistent with the local City/County General Plans vision for roadways within their various jurisdictions. With adherence to community standards and through compliance with mitigation measures ensuring compliance with design requirements and zoning standards, the negative effects to aesthetics would be less than significant.

d. Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 118, IS, [Appendix 8.2, FSEIR])

Facts:

Some of the proposed OBMPU facilities will require the installation of night lighting, possibly including areas where little or no night lighting currently exists. The development of most of the proposed facilities are to be within existing facility sites, which already have some lighting features. Glare from new light fixtures that may be installed as part of proposed improvements has a potential to result in spill over lighting onto adjacent sensitive receptors such as residential, rural or wildlife habitat portions within the project area. Though no unusual or unique sources of light and glare are anticipated to be required in support of OBMPU facilities, mitigation to address the increased lighting that may result from the proposed OBMPU facilities is required.

The implementation of MM **AES-8** would ensure that light and glare impacts from future structures associated with the OBMPU are minimized to a level of less than significant.

With implementation of mitigation to ensure that this future increase in lighting does not result in a new source of substantial light or glare which would adversely affect day or nighttime views in the area, implementation of the OBMPU is not forecast to result in any significant light or glare effects.

Mitigation Measures

The IEUA has determined that the Project would have a potentially significant impact as a result of aesthetics or visual modifications from future OBMPU projects. Mitigation measures to reduce the impact to below a level of potential significance are provided below.

- AES-1: Proposed facilities shall be designed in accordance with local design standards and integrated with local surroundings. Landscaping shall be installed in conformance with local landscaping design guidelines as appropriate to screen views of new facilities and to integrate facilities with surrounding areas.
- AES-2: The Mills Wetland Storage Basin Project shall be designed to include landscaping commensurate with the existing pastoral setting that exists at this site at present. The Implementing Agency shall utilize existing photos of the Mills Wetlands prior to construction to develop a landscape plan that the Implementing Agency and/or Watermaster deem acceptable as "commensurate with the existing pastoral setting."
- AES-3: Future regional groundwater treatment facilities and other proposed facilities defined within the OBMPU at unknown locations shall either (1) Be located outside of scenic viewsheds identified in the General Plan or Municipal Code corresponding to a proposed location for a future facility, or (2) Undergo subsequent CEQA documentation to assess potential impacts from locating a future facility in an area that may contain scenic resources.
- AES-4: Should the removal of trees be required for a specific project, the Implementing Agency shall comply with the local jurisdiction's tree ordinance, municipal code, or other local regulations. If no tree ordinance exists within the local jurisdiction, and a project will remove healthy trees as defined by a qualified arborist, (1) the Implementing Agency shall replace all trees removed at a 1:1 ratio, and (2) The specific location selected for a well shall avoid rock outcroppings and other scenic resources as defined in CEQA Guidelines Appendix G. If this cannot be accomplished a second tier CEQA evaluation shall be completed.
- AES-5: Future proposed facilities defined within the OBMPU at unknown locations shall either (1) Be located within sites that avoid rock outcroppings and other scenic resources as defined in CEQA Guidelines Appendix G, or (2) Undergo subsequent CEQA documentation to assess potential impacts from locating a future facility in an area that may contain scenic resources.
- AES-6: OBMPU facility implementation will conform with design requirements established in the local jurisdiction planning documents, including but not limited to the applicable zoning code, except where such compliance is not required by California law.
- AES-7: When OBMPU above ground facilities are constructed in the future, the local agency design guidelines for the project site shall be followed to the extent that they do not conflict with the engineering and budget constraints established for the facility and except where such compliance is not required by California law.
- AES-8: Future OBMPU projects shall implement at least the following measures, unless they conflict with the local jurisdiction's light requirements, in which case the local jurisdiction's requirements shall be enforced:
 - Use of low-pressure sodium lights where security needs require such lighting to minimize
 - impacts of glare; Projects within a 45-mile radius of the Mount Palomar Observatory and located within Riverside County must adhere to special standards set by the County of Riverside relating to the use of low-pressure sodium lights.
 - The height of lighting fixtures shall be lowered to the lowest level consistent with the purpose of the lighting to reduce unwanted illumination.
 - Directing light and shielding shall be used to minimize off-site illumination.
 - No light shall be allowed to intrude into sensitive light receptor areas.

IEUA finds that implementation of the above measures can reduce potential adverse aesthetic impacts to a level of less than significant. As described in Section I of the IS, [Appendix 8.2, FSEIR], all potential aesthetic impacts associated with the OBMPU can be mitigated to a less than significant impact level. Mitigation measures would: minimize impacts to scenic vistas through enforcing future projects to meet local design standards; minimize visual impacts to the pastoral setting at the Mills Wetland site; minimize impacts to scenic resources through avoidance of such resources, or through assessment in subsequent CEQA documentation; minimize impacts to scenic resources such as trees through enforcement of compliance with local jurisdiction tree ordinance(s); minimize conflicts with regulations governing scenic quality through enforcing compliance with applicable zoning code and design requirements established by local jurisdictions; and, minimize light and glare impacts by enforcing local jurisdiction light and glare minimization standards. The above measures will be integrated into the proposed facilities that will be constructed without additional impacts on the environment. Since the Projects as analyzed above with the implementation of the above identified mitigation measures will not directly or indirectly cause significant adverse impact to aesthetic resources, the Project is not forecast to contribute to cumulatively significant aesthetic impacts within the Project area.

2. Agricultural and Forestry Resources:

a. Would the convert Prime Farmland, Unique Farmland or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 124-125, IS, [Appendix 8.2, FSEIR])

Facts:

The Chino Basin area historically contains significant agricultural resources; primarily dairy ranches and vegetable farms located in the southwestern portion of the County of San Bernardino. There are several areas of land designated by the California Department of Conservation as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance within the Chino Basin area which includes portions of Riverside County. Those new facilities located north of State Highway (SH) 60 will not cause the loss of any important farmland. Those located south of SH 60 have a potential to cause the loss of some important farmland soil resources. The facilities proposed as part of the OBMPU include development within possibly hundreds of acres of important farmland. To offset the impacts to important farmland in the southern Chino Basin, which may remove more than 100 acres of important farmland from production, projects can compensate for such impacts to farmland resources by participating in important farmland mitigation banks, either ones created in the local area or mitigation banks established in other areas of California.

The implementation of MM **AGF-1** would ensure the proposed facilities' contribution to project-specific or cumulative farmland impacts would be reduced to less than cumulatively considerable level of impact. If there is a determination of significance, then the implementing agency will either relocate and avoid the impact, or offset the loss by acquiring agricultural land conservation credits at a minimum ratio of 1:1.

With the implementation of mitigation to address any OBMPU facilities located within important farmland, through avoidance of important farmlands during site selection or through compensatory mitigation, the OBMPU would avoid or compensate for such impacts, thereby reducing impacts to a level of less than significant.

b. Would the project conflict with existing zoning for agricultural use or a Williamson Act contract?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 125-126, IS, [Appendix 8.2, FSEIR])

Facts:

The same circumstance exists for the six cities that no longer include any designated agricultural land. The Project cannot conflict with exist land use designations. On the other hand, there are five agencies, the two counties and the cities of Chino, Chino Hills and Eastvale that still have some land assigned agricultural designations. The critical issue for such designated land is whether such designated land constitutes "important farmlands" in contrast to low value (from an agricultural perspective) agricultural land, such as grazing land. Where future OBMPU water facilities or operations are proposed for implementation, a potential does exist for impact to important farmlands that are coincidental. However, mitigation is provided to minimize potential impacts to high value agricultural land.

The implementation of MM **AGF-2** includes the need to conduct a Land Evaluation Site Assessment (LESA) Model if a facility is proposed on land designated as important farmland. If there is a determination that the loss of farmland is significant based on the LESA Model, the implementing agency would offset the loss by acquiring agricultural land conservation credits at a minimum ratio of 1:1 so that potential impacts to land zoned for agriculture would be reduced to less than significant.

With the implementation of mitigation to address any OBMPU facilities located within important farmland, through avoidance or providing a LESA Model of important farmlands during site selection and through compensatory mitigation where important farmland exists, the OBMPU would avoid or compensate for agricultural impacts, thereby reducing impacts to a level of less than significant.

d. Would the project result in the loss of forest land or conversion of forest land to non-forest use?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 127-128, IS, [Appendix 8.2, FSEIR])

Facts:

The southern-most portion of the Chino Basin overlaps with riparian woodland areas along the Santa Ana River; Chino Creek; and Mill Creek; and in the Prado Basin. Certain areas of these riparian woodlands may qualify as forest land. Other than these specific areas, no contiguous area of forest land occur in the Chino Basin. Further, no jurisdictions have designated areas within their jurisdiction with zoning designations for forest land. Some of the OBMPU facilities, particularly

monitoring wells, other wells, and the proposed Mill Creek water storage basin could impact riparian woodland that might qualify as "forest land."

For all projects implemented in the Chino Basin that actually impact "forest land/riparian woodland" MM **AGF-3** shall be required when five acres or more of such woodland is impacted in support of OBMPU projects.

With the implementation of mitigation to address the loss of significant riparian woodland/forest land (defined as loss of over five acres), through compensatory mitigation where significant riparian woodland/forest land exists, the OBMPU would avoid or compensate for forestry impacts, thereby reducing impacts to a level of less than significant.

e. Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 128, IS, [Appendix 8.2, FSEIR])

Facts:

With the exceptions of impacts to Williamson Act lands, lands zone for agriculture and property zoned for forest land, a limited potential has been identified to convert agricultural land and forest land to water management uses from implementing the OBMPU Program Elements (Project Categories) in the Chino Basin.

The implementation of each mitigation involves avoidance as the first mitigation approach, but provides contingency measures to address impacts that cannot fully avoid these resources. Two of the mitigation measures require tests of onsite resources (the LESA Model or an evaluation to determine whether woodlands qualify as "forest land") to determine whether they qualify as resources of sufficient importance that would require mitigation of potential impacts.

For all Project Categories (1-4) mitigation measures **AGF-1**, **AGF-2**, and **AGF-3** can be implemented to reduce potentially significant adverse impacts to agricultural, forest, and timber resources to a less than significant impact level.

Mitigation Measures

The IEUA has determined that the Project would have a potentially significant impact as a result of the development proposed OBMPU facilities that have a reasonable possibility of removing some agricultural or forest land from operation. Mitigation measures to reduce the impact to below a level of potential significance are provided below.

AGF-1 For all proposed facilities in the southern portion of the Chino Basin (south of SH 60), the potential for impact to Important Farmlands (Prime Farmland, Farmland of Statewide Importance, or Unique Farmland) shall be determined prior to final site selection. If important farmland cannot be avoided and individually exceeds 5 acres or cumulatively exceeds 10 acres of important farmland lost to agricultural production over the life of the program, the agency implementing the project shall provide compensatory mitigation in the form of comparable important farmland permanently conserved in either a local or State- approved important farmland mitigation bank at a mitigation ratio of 1:1. The acquisition of this compensatory mitigation shall be completed within one

year of initiating construction of the proposed facility and verification shall be documented with the Chino Basin Watermaster.

- AGF-2 For all proposed facilities in the southern portion of the Chino Basin (south of SH 60), the potential for impact to Important Farmlands (Prime Farmland, Farmland of Statewide Importance, or Unique Farmland) shall be determined prior to final site selection. If Important Farmland cannot be avoided and individually exceeds 5 acres or cumulatively exceeds 10 acres of Important Farmland lost to agricultural production over the life of the program, the agency implementing the project shall relocate and avoid the site, or alternatively the agency shall conduct a California Land Evaluation and Assessment (LESA) model evaluation. If the evaluation determines the loss of Important Farmland will occur, the agency shall provide compensatory mitigation in the form of comparable Important Farmland permanently conserved in either a local or State-approved Important Farmland mitigation bank at a mitigation ratio of 1:1. The acquisition of this compensatory mitigation shall be completed within one year of initiating construction of the proposed facility and verification shall be documented with the Chino Basin Watermaster.
- AGF-3 For all proposed facilities that may impact riparian woodland/forest land in the portion of the Chino Basin (SH 60), the potential for impacts to riparian woodland/forest land shall be determined prior to final site election. If important forest land cannot be avoided and permanently will exceed 5 acres in area, the agency implementing the project shall relocate and avoid the site, or alternatively the agency shall conduct an evaluation to determine if it qualifies with the State definition of "forest land." If the evaluation determines the permanent loss of important forest land will occur, the agency shall provide compensatory mitigation in the form of comparable forest land permanently conserved in either a local or State-approved important forest land mitigation bank at a mitigation ratio of 1:1. Alternatively, the agency may carry out a forest land creation program at a 1:1 ratio for comparable woodland. The acquisition or creation of this compensatory mitigation shall be completed/initiated within one year of initiating construction of the proposed facility and verification shall be documented with the Chino Basin Watermaster.

IEUA finds that implementation of the above measures can reduce potential adverse impacts associated with the conversion of important agricultural and/or forest lands. The above measures can be implemented without causing additional adverse environmental impacts. The above measures will be integrated into the proposed facilities that will be constructed without additional impacts on the environment. Since the Project as analyzed above will not directly or indirectly cause significant adverse impact to agricultural lands, the Project is not forecast to contribute to cumulatively significant conversion of agricultural or forest lands within the State.

3. Air Quality

b. Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

<u>Finding:</u> Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 4-26 to 4-28, FSEIR)

<u>Facts:</u> The SCAQMD significance thresholds for criteria pollutants are as follows, along with the Project maximum daily emissions with mitigation implemented for Construction:

- VOC: <u>threshold</u> 75; <u>Project</u> 13.64; Exceeds Threshold? No
 NO_x: threshold 100; Project 87.93; Exceeds Threshold? No
- CO: threshold 550; Project 391.36; Exceeds Threshold? No
- SO_x: threshold 150; Project 0.92; Exceeds Threshold? No

PM₁₀: threshold 150; Project 12.58; Exceeds Threshold? No
 PM_{2.5}: threshold 55; Project 6.11; Exceeds Threshold? No

Mitigation is required to minimize impacts related to construction emissions, specifically to minimize NO_x emissions. MM $\mathbf{AQ-1}$ would minimize the horsepower of construction equipment, ensure that off-road diesel construction equipment conforms to Tier 4 standards, and ensure that all construction equipment is tuned and maintained in accordance with manufacturer specifications. MM $\mathbf{AQ-2}$ would ensure that all graded areas within future OBMPU Project sites are watered at 2.1 hour watering intervals or otherwise ensure a soil moisture of 12%. As such, OBMPU construction would not result in cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard; impacts are less than significant with mitigation.

The Project would not result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment. Backup generators would be used only in emergency situations and for routine testing and maintenance purposes and would not contribute a substantial amount of emissions capable of exceeding SCAQMD thresholds. As Project operations would not exceed SCAQMD thresholds, the Project would not violate an air quality standard or contribute to an existing violation. Therefore, Project operations would not result in a cumulatively considerable net increase of any criteria pollutant and impacts would be less than significant.

c. Would the project expose sensitive receptors to substantial pollutant concentrations?

Facts:

<u>Finding:</u> Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 4-34, FSEIR)

The SCAQMD screening look-up tables are utilized to determine localized significance thresholds (LSTs) and impacts thereof. The values vary between the Project Categories put forth as part of the OBMPU. Results of the LST analysis indicate that, the Project would not exceed the SCAQMD localized significance thresholds during construction (NO_x, CO, PM₁₀, and PM_{2.5} emissions are below thresholds for all Project Categories during construction). Therefore, sensitive receptors would not be exposed to substantial pollutant concentrations during Project construction.

After implementation of MM **AQ-1**—which would minimize the horsepower of construction equipment, ensure that off-road diesel construction equipment conforms to Tier 4 standards, and ensure that all construction equipment is tuned and maintained in accordance with manufacturer specifications—construction-source emissions would not exceed the applicable SCAQMD LSTs thresholds and would be less than significant.

The SCAQMD is responsible for issuing permits for the operation of stationary sources in order to reduce air pollution, and to attain and maintain the national and California ambient air quality standards in the South Coast Air Basin (SCAB). Upon compliance with SCAQMD permitting procedures, localized emissions from any

potential diesel generator would not result in substantial pollutant concentrations capable of exceeding operational LST thresholds. Therefore, the Project would not expose sensitive receptors to substantial pollutant concentrations and impacts would be less than significant.

At buildout of the Project, the highest daily traffic volumes generated at the roadways within the vicinity of the Project are expected to generate less than the highest daily traffic volumes generated at the busiest intersection in the CO "hot spot" analysis. As such, the Project would not likely exceed the most stringent 1-hour CO standard.

Ultimately, with implementation of mitigation, the OBMPU would have a less than significant potential to expose sensitive receptors to substantial pollutant concentrations.

Mitigation Measures

The IEUA has determined that the Project would have a potentially significant impact as a result of the emissions generated by the development proposed OBMPU facilities. Mitigation measures to reduce the impact to below a level of potential significance are provided below.

- AQ-1 When using construction equipment greater than 150 horsepower (>150 hp), the Construction Contractor shall ensure that off-road diesel construction equipment complies with the Environmental Protection Agency (EPA)/California Air Resources Board (CARB) Tier 4 emissions standards or equivalent and shall ensure that all construction equipment is tuned and maintained in accordance with the manufacturer's specifications.
- AQ-2 All actively graded areas within the Project site shall be watered at 2.1-hour watering intervals (e.g., 4 times per day) or a movable sprinkler system shall be in place to ensure minimum soil moisture of 12 percent (%) in maintained for actively graded areas. Moisture content can be verified with use of a moisture probe by the grading contractor.

IEUA finds that implementation of the above measures can reduce potential adverse impacts associated with the generation of emissions during construction of the proposed OBMPU facilities. The above measures can be implemented without causing additional adverse environmental impacts. The above measures will be integrated into the proposed facilities that will be constructed without additional impacts on the environment. Since the Project, as analyzed above will not cause significant adverse impact to air quality, implementation of the OBMPU is not forecast to result in any unavoidable Project specific or cumulatively considerable adverse impacts to air quality.

- **4. Biological Resources:** Impacts under Biological Resources, checklist questions "a," "b," and "d" are significant and cannot be mitigated below significance level. The discussion of this specific issue under Biological Resources is located below in Section C.3 of this document. The checklist questions under Biological Resources that can be mitigated to a level of less than significant are as follows:
- c. Would the project have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

<u>Finding:</u> Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 4-67 to 4-69, 4-71, and 4-76, FSEIR)

Based on the background review and subsequent windshield surveys, numerous jurisdictional waters occur in the Study Area where the OBMPU will be implemented. Many of the jurisdictional waters (built waterways) are heavily managed by local agencies, which serve public water needs, flood control, and agricultural production. As a result, some of these jurisdictional waters support few natural biological functions and values.

Direct impacts to man-made features would remove or disrupt the limited biological functions that these features provide. Direct impacts in natural areas would remove or disrupt the hydrology, vegetation, wildlife use, water quality conditions, and other biological functions provided by the resources. Temporary impacts on jurisdictional waters could result in a temporary loss of jurisdictional waters and could potentially increase erosion and sediment transport into adjacent areas. Indirect impacts on jurisdictional waters could indirectly impact adjacent or downstream jurisdictional waters.

A Jurisdictional Determination and subsequent approval of the determination by the regulatory agencies will be conducted on each facility as the design becomes available and construction of a particular facility is scheduled to occur within the foreseeable future. As stated above under Biological Resources issues "a" and "b", the mitigation strategy includes avoidance of impacts on sensitive habitat to the extent possible through requiring the following: acquisition of regulatory permits and implementing subsequent mitigation that would minimize impacts related to discharge of fill or streambed alteration of jurisdictional areas (BIO-3); require jurisdictional water preconstruction surveys to determine the potential impacts thereof, which will inform the mitigative actions required to minimize impacts to jurisdictional waters/areas (BIO-4); and, require specific measures pertaining to water diversion to minimize impacts to jurisdictional waters during construction (BIO-24); and, require the continued preparation of annual Prado Basin Habitat Sustainability Monitoring Program and review of impacts thereof in subsequent environmental documents should the monitoring program suggest that habitat is adversely impacted (BIO-25).

With implementation of mitigation measures outlined herein, unforeseen direct impacts, indirect impacts, and temporary impacts to natural and man-made water bodies would be mitigated to a level of less than significant. As such, the OBMPU would have a less than significant potential to have a substantial adverse effect on

state or federally protected wetlands through direct removal, filling, hydrological interruption, or other means.

e. Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 4-69 and 4-73, FSEIR)

Facts:

The proposed OBMPU that will be developed within the Chino Basin includes the following incorporated cities: Chino, Chino Hills, Eastvale, Fontana, Jurupa Valley, Montclair, Ontario, Pomona, Rancho Cucamonga, and Upland. The Basin includes limited areas of unincorporated Riverside and San Bernardino Counties. As such, future OBMPU Facilities would be subject to various local ordinances.

One of the main concerns under this issue is the potential for the OBMPU to conflict with a tree preservation policy. MM BIO-10, which requires the maximization of the preservation of trees. Furthermore, under Aesthetics, MM AES-4 requires the implementing agency to comply with the local jurisdiction's tree ordinance, municipal code, or other local regulations and provides subsequent requirements where a tree preservation ordinance does not exist, including completion of a second tier CEQA evaluation, to further minimize impacts thereof. Additionally, MM LU-1 ensures that the facilities associated with the OBMPU are developed to minimize conflicts with adjacent land uses, which would further minimize the OBMPU's potential to conflict with any local policies or ordinances protecting biological resources. With the implementation of the above mitigation measures, as well as the entirety of the compiled mitigation designed to minimize impacts to biological resources, impacts related to the OBMPU's potential to result in conflicts with local ordinances would be less than significant.

f. Would the project Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan??

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 4-69 and 4-72, FSEIR)

Facts:

The OBMPU is located within the Chino Basin, which includes a part of western Riverside County, and as such, areas located therein are subject to the Western Riverside County MSHCP. Other HCPs within the Chino Basin include the Oakmont Industrial Group HCP in Ontario and the North Fontana MSHCP in Fontana. OBMPU Facilities located within these areas would have a potential to conflict with the provisions of an HCP, therefore, mitigation is required to minimize impacts to a less than significant level. As such, MM BIO-7 would require verification of consistency with or require acquisition of take authorization through applicable habitat conservation plans (HCPs) or multiple species habitat conservation plans (MSHCPs) within a given site. Thus, impacts would be less than significant through avoidance, compensation or a comparable mitigation alternative, which will ensure that each Project will be shown to be consistent with the applicable MSHCP/HCP when implemented.

Mitigation Measures

IEUA has determined that the Project could have a potentially significant impact on biological resources checklist items "c," "e," and "f." Mitigation measures to reduce the impact to below a level of potential significance are provided below.

To reduce or prevent activities that may adversely affect rivers, streambeds or wetlands, the following mitigation measures will be incorporated into any specific projects and/or contractor specifications for future Project-related impacts to protect sensitive resources and habitat.

- Prior to discharge of fill or streambed alteration of state or federal water jurisdictional areas, the project proponent shall obtain regulatory permits from the U.S. Army Corps of Engineers, local Regional Water Quality Control Board and the California Department of Fish and Wildlife. Any future project that must discharge fill into a channel or otherwise alter a streambed shall be minimized to the extent feasible, and any discharge of fill not avoidable shall be mitigated through compensatory mitigation. Mitigation can be provided by restoration of temporary impacts, enhancement of existing resources, or purchasing into any authorized mitigation bank or in-lieu fee program; by selecting a site of comparable acreage near the site and enhancing it with a native riparian habitat or invasive species removal in accordance with a habitat mitigation plan approved by regulatory agencies; or by acquiring sufficient compensating habitat to meet regulatory agency requirements. Typically, regulatory agencies require mitigation for jurisdictional waters without any riparian or wetland habitat to be mitigated at a 1:1 ratio. For loss of any riparian or other wetland areas, the mitigation ratio will begin at 2:1 and the ratio will rise based on the type of habitat, habitat quality, and presence of sensitive or listed plants or animals in the affected area. A Habitat Mitigation and Monitoring Proposal shall be prepared and reviewed and approved by the appropriate regulatory agencies. The project proponent will also obtain permits from the regulatory agencies (U.S. Army Corps of Engineers, Regional Water Quality Control Board, CDFW and any other applicable regulatory agency with jurisdiction over the proposed facility improvement) if any impacts to jurisdictional areas will occur. These agencies can impose greater mitigation requirements in their permits, but the Implementing Agency will utilize the ratios outlined above as the minimum required to offset or compensate for impacts to jurisdictional waters, riparian areas or other wetlands.
- BIO-4 Jurisdictional Water Preconstruction Surveys: A federal and state jurisdictional water preconstruction survey will be conducted at least six months before the start of ground-disturbing activities to identify and map all jurisdictional waters in the project footprint and up to a 250-foot buffer around the project footprint, subject to legal property access restrictions. The purpose of this survey is to confirm the extent of jurisdictional waters within the project footprint and adjacent up to 250 foot buffer. If possible, surveys would be performed during the spring, when plant species are in bloom and hydrological indicators are most readily identifiable. These results would then be used to calculate impact acreages and determine the amount of compensatory mitigation required to offset the loss of wetland functions and values.

Implementation of the following mitigation measures will ensure that project design and site selection reduce impacts to sensitive biological resources to the extent feasible.

BIO-10 Maximize the preservation of individual oak, sycamore and walnut trees within proposed OBMPU facility sites. Preservation is defined within this measure as follows: existing oak, sycamore and walnut trees within a given Project site shall be retained within the site to the maximum extent feasible except where their preservations would interfere with functional and reasonable project design. Where the preservation of individual trees is not possible, the guidelines set forth in MM AES-4 regarding tree preservation and adherence to local ordinances thereof shall be followed.

Implementation of the following mitigation measures will ensure that project construction impacts to sensitive biological resources, including the potential effects of invasive species, are reduced to the extent feasible.

- BIO-24 Dewatering/Water Diversion Plan: If construction is planned to occur where there is open or flowing water, prior to the commencement of construction the Project Proponent shall submit to the Implementing Agency a Dewatering Plan prepared in coordination with the resource agencies (e.g., USACE, SWRCB/RWQCB, and CDFW, as appropriate). The Dewatering Plan shall identify how open or flowing water will be routed around construction areas, such as through the creation of cofferdams. If cofferdams are constructed, implementation of the following cofferdam or water diversion measures shall be implemented to avoid and lessen impacts on jurisdictional waters during construction:
 - The cofferdams, filter fabric, and corrugated steel pipe are to be removed from the creek bed after completion of the project.
 - The timing of work within all channelized waters is to be coordinated with the regulatory agencies.
 - The cofferdam is to be placed upstream of the work area to direct base flows through an appropriately sized diversion pipe. The diversion pipe will extend through the Contractor's work area, where possible, and outlet through a sandbag dam at the downstream end.
 - Sediment catch basins immediately below the construction site are to be constructed when performing in-channel construction to prevent silt- and sediment-laden water from entering the main stream flow. Accumulated sediments will be periodically removed from the catch basins.
 - BIO-25 Permanent Water Diversion Projects: The Watermaster shall continue to prepare the annual Prado Basin Habitat Sustainability Monitoring Program. A second-tier CEQA evaluation shall be conducted for proposed water diversion projects associated with the OBMPU. The potential impacts to Prado Basin habitat from implementation of such diversion projects shall receive public review, including pertinent wildlife management agencies and interested parties.

The following measures are also required to minimize impacts under biological resources, though these measures (**AES-4**, and **LU-1**) are provided under their respective sections herein.

IEUA finds that implementation of the above measures can reduce potential impacts to wetlands, impacts related to compliance with local policies or ordinances pertaining to the protection of biological resources, and impacts related to compliance with applicable MSHCPs/HCPs. The above measures can be implemented without causing additional adverse environmental impacts. The above measures will be integrated into the future development activities without additional impacts on the environment. Since the Project as analyzed above will not directly or indirectly cause significant adverse wetland, local policy or MSHCP/HCP impacts under biological resources with implementation of mitigation, the Project is not forecast to contribute to cumulatively considerable wetland, local policy or MSHCP/HCP impacts related to implementation of the OBMPU.

5. Cultural Resources

- a. Would the project cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?
- b. Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?

The facts and findings below apply both to impacts (a) and (b).

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 4-94 to 4-99, FSEIR)

Facts:

Since specific locations for the proposed wells have not been have yet to be determined, impacts to specific historical, archaeological, and paleontological resources are speculative. Previously unknown and unrecorded cultural resources may be unearthed during excavation and grading activities for individual projects. If previously unknown potentially unique buried archaeological or paleontological resources are uncovered during excavation or construction, significant impacts could occur. Therefore, mitigation will be implemented that would require site-specific studies to identify potentially significant historical, archaeological, and paleontological resources. Additional studies would minimize potential impacts to historical, archaeological, and paleontological resources.

MM **CUL-1** would exclude highly disturbed sites from requiring further cultural resource evaluation, unless the Implementing Agency is seeking state funding for the Project. Furthermore, MM **CUL-1** would require the Implementing Agency to adhere to procedures pertaining to treatment of cultural resources that may be accidentally discovered during earthmoving activities.

MM **CUL-2** would ensure that future OBMPU Projects that are located within undisturbed areas, within a site that will require substantial earthmoving activities and/or excavation, and/or the Implementing Agency is seeking State funding, will require a follow-on Phase I Cultural Resources Investigation. This mitigation measure includes several phases or steps beyond the completion of a Phase I Cultural Resources Investigation that would cover the identification, evaluation, mitigation, and monitoring associated with a given Project where resources may be located. This would ensure that adequate mitigation is provided in the event that significant cultural resources are located within a given OBMPU Project site.

MM CUL-3 would ensure that, after each phase of the studies required by MM CUL-2 has been completed, where required, a complete report on the methods, results, and final conclusions of the research procedures is prepared and submitted to SCCIC, EIC, NHMLAC, and/or SBCM. This would ensure that any discoveries are properly documented for future researchers that may seek information in the OBMPU Project area.

It can be anticipated that projects proposed under OBMPU may involve modifications to or may otherwise encounter common infrastructure features that are more than 50 years of age, but have a low potential to be considered historically significant, such as existing roadways and minor, utilitarian structures serving as pumphouses or reservoirs, as well as numerous historic-period buildings that are adjacent to the Project boundaries but are unlikely to receive any direct or indirect impact. A programmatic agreement, enforced through MM **CUL-4** would outline the proper treatment of such properties in future Project-specific studies, which will greatly streamline the design and completion of such studies, facilitate the SHPO review process, and minimize potential Project delays.

The potential construction impacts of the Project, in combination with other projects as a result of growth in the area, could contribute to a cumulatively significant impact specific historical, archaeological, and paleontological resources. Therefore, the Project's cumulative effects to specific historical, archaeological, and paleontological resources would be cumulatively considerable and cumulative impacts would require mitigation, as addressed above, to minimize impacts to a level of less than significant.

Mitigation Measures

IEUA has determined that the Project could have a potentially significant impact on unknown subsurface cultural resources. Mitigation measures to reduce the impact to below a level of potential significance are provided below.

CUL-1: Where a future discretionary project requiring a Negative Declaration or follow-on EIR is proposed within an existing facility that has been totally disturbed due to it undergoing past engineered site preparation (such as a well site or water treatment facility site), the agency implementing the OBMPU project will not be required to complete a follow on cultural resources report (Phase I Cultural Resources Investigation) unless the Implementing Agency is seeking State funding, in which case the Implementing Agency must prepare a Phase I Cultural Resources Investigation to satisfy State CEQA-plus requirements.

Where a Phase I Cultural Resources Investigation is not required, the following shall be required to minimize impacts to any accidentally exposed cultural resource materials:

- Should any cultural resources be encountered during construction of these
 facilities, earthmoving or grading activities in the immediate area of the finds shall
 be halted and an onsite inspection shall be performed immediately by a qualified
 archaeologist. Responsibility for making this determination shall be with the
 Implementing Agency's onsite inspector. The archaeological professional shall
 assess the find, determine its significance, and make recommendations for
 appropriate mitigation measures within the guidelines of the California
 Environmental Quality Act.
- CUL-2: Where a future discretionary project requiring a Negative Declaration or follow-on EIR is proposed within an undisturbed site and/or a site that will require substantial earthmoving activities and/or excavation, and/or the Implementing Agency is seeking State funding, the agency implementing the OBMPU project shall complete a follow on cultural resources report (Phase I Cultural Resources Investigation) regardless of whether the Implementing Agency is seeking State funding.

Where a Phase I Cultural Resources Investigation is required, the following phases of identification, evaluation, mitigation, and monitoring shall be followed for a given OBMPU Project:

1. Phase I (Identification): A Phase I Investigation to identify historical, archaeological, or paleontological resources in a project area shall include the following research procedures, as appropriate:

- Focused historical/archaeological resources records searches at SCCIC and/or EIC, depending on the project location, and paleontological resources records searches by NHMLAC, SBCM, and/or the Western Science Center in Hemet;
- Historical background research, geoarchaeological profile analysis, and paleontological literature review;
- Consultation with the State of California Native American Heritage Commission, Native American tribes in the surrounding area, pertinent local government agencies, and local historic preservation groups;
- Field survey of the project area by qualified professionals of the pertinent discipline and at the appropriate level of intensity as determined on the basis of sensitivity assessment and site conditions;
- Field recordation of any cultural resources encountered during the survey and proper documentation of the resources for incorporation into the appropriate inventories or databases.
- 2. Phase II (Evaluation): If cultural resources are encountered in a project area, a Phase II investigation shall be required to evaluate the potential significance of the resources in accordance with the statutory/regulatory framework outlined above. A typical Phase II study consists of the following research procedures:
 - Preparation of a research design to discuss the specific goals and objectives of the study in the context of important scientific questions that may be addressed with the findings and the significance criteria to be used for the evaluation, and to formulate the proper methodology to accomplish such goals;
 - In-depth exploration of historical, archaeological, or paleontological literature, archival records, as well as oral historical accounts for information pertaining to the cultural resources under evaluation:
 - Fieldwork to ascertain the nature and extent of the archaeological/paleontological remains or resource-sensitive sediments identified during the Phase I study, such as surface collection of artifacts, controlled excavation of units, trenches, and/or shovel test pits, and collection of soil samples;
 - Laboratory processing and analyses of the cultural artifacts, fossil specimens, and/or soil samples for the proper recovery, identification, recordation, and cataloguing of the materials collected during the fieldwork and to prepare the assemblage for permanent curation, if warranted.
- 3. Phase III (Mitigation): For resources that prove to be significant under the appropriate criteria, mitigation of potential project impact is required. Depending on the characteristics of each resource type and the unique aspects of significance for each individual resource, mitigation may be accomplished through a variety of different methods, which shall be determined by a qualified archaeologist, paleontologist, historian, or other applicable professional in the "cultural resources" field. Typical mitigation for historical, archaeological, or paleontological resources, however, may focus on the following procedures, aimed mainly at the preservation of physical and/or archival data about a significant cultural resource that would be impacted by the project:
 - Data recovery through further excavation at an archaeological site or a paleontological locality to collect a representative sample of the identified remains, followed by laboratory processing and analysis as well as preparation for permanent curation:
 - Comprehensive documentation of architectural and historical data about a significant building, structure, or object using methods comparable to the appropriate level of the Historic American Buildings Survey (HABS) and the Historic American Engineering Record (HAER) for permanent curation at a repository or repositories that provides access to the public;
 - Adjustments to project plans to minimize potential impact on the significance and integrity of the resource(s) in question.
- 4. Phase IV (Monitoring): At locations that are considered sensitive for subsurface deposits of undetected archaeological or paleontological remains, all earth-moving operations shall be monitored continuously or periodically, as warranted, by qualified professional practitioners. Archaeological monitoring programs shall be coordinated with the nearest Native American groups, who may wish to participate, as put forth in MMs TCR-1 through TCR-3.

- CUL-3: After each phase of the studies required by mitigation measure CUL 2 has been completed, where required, a complete report on the methods, results, and final conclusions of the research procedures shall be prepared and submitted to South Central Coastal Information Center (SCCIC), Eastern Information Center (EIC), Natural History Museum of Los Angeles County (NHMLAC), and/or San Bernardino County Museum (SBCM), as appropriate and in addition to the lead Implementing Agency for the project, for permanent documentation and easy references by future researchers.
- CUL-4: Prior to commencement of construction of OBMPU related facilities, the Watermaster and IEUA shall confer with the Watermaster and Watermaster Parties/stakeholders to establish a programmatic agreement with SHPO that will stipulate a set of mutually accepted guidelines that address research procedures and the types of potential cultural resources that may be excluded from further consideration before OBMPU Projects are implemented, such as common infrastructure features that are more than 50 years of age, but have a low potential to be considered historically significant, such as existing roadways and minor, utilitarian structures serving as pumphouses or reservoirs, as well as numerous historic-period buildings that are adjacent to the project boundaries but are unlikely to receive any direct or indirect impact. Once this agreement has been made with SHPO, Watermaster shall retain the agreement in the Project file, and shall ensure that all Stakeholder Parties are given copies of the agreement for reference on future OBMPU Projects. For OBMPU Projects that are in development prior to an agreement with SHPO, all types of cultural resources shall be considered by the professionals assessing historical resources within the project footprint; regardless, the steps provided in MM CUL-2 shall be followed to assess and minimize impacts to sensitive cultural resources within a given site.

IEUA finds that implementation of the above measures can reduce potential impacts to unknown subsurface cultural resources to a less than significant impact level. The above measures can be implemented without causing additional adverse environmental impacts. The above measures will be integrated into the future development activities without additional impacts on the environment. Since the Project as analyzed above will not directly or indirectly cause significant adverse impact related to cultural, archeological, or historical resources with implementation of mitigation, the Project is not forecast to contribute to cumulatively considerable cultural resource impacts required to support the Project.

6. Energy

- a. Would the project result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operations?
- b. Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

The facts and findings below apply both to impacts (a) and (b).

<u>Finding:</u> Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 4-117 to 4-118, FSEIR)

<u>Facts:</u>
OBMPU construction and operation would not result in inefficient, wasteful or unnecessary consumption of energy and would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency. Construction equipment use of fuel would not be atypical for the type of construction proposed because there are no aspects of the Project's proposed construction process that are unusual or energy-intensive, and Project construction equipment would conform to

the applicable California Ai Resources Board (CARB) emissions standards, acting to promote equipment fuel efficiencies.

California Code of Regulations (CCR) Title 13, Title 13, Motor Vehicles, Section 2449(d)(3) Idling, limits idling times of construction vehicles to no more than 5 minutes, thereby precluding unnecessary and wasteful consumption of fuel due to unproductive idling of construction equipment. Best Available Control Measures (BACMs) inform construction equipment operators of this requirement. Enforcement of idling limitations is realized through periodic site inspections conducted by County building officials, agency field inspectors, and/or in response to citizen complaints.

Diesel fuel would be supplied by County and regional commercial vendors. Indirectly, construction energy efficiencies and energy conservation would be achieved through the use of bulk purchases, transport and use of construction materials. The 2018 Integrated Energy Policy Report (IEPR) released by the California Energy Commission (CEC) has shown that fuel efficiencies are getting better within on and off-road vehicle engines due to more stringent government requirements. As such, Project construction energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

Operation of OBMPU facilities would not include any substantive new stationary or mobile sources of emissions, and therefore, by its very nature, will not generate substantive amounts of energy demand from Project operations. The Project does not propose a trip-generating land use or facilities that would generate any substantive amount of on-going energy demands. While it is anticipated that the Project would require intermittent maintenance, such maintenance would be minimal requiring a negligible amount of traffic trips on an annual basis.

Due to the scope of the OBMPU, there is a potential for certain types of OBMPU Facilities to require a substantial amount of operational energy, as such, mitigation that would accomplish the following is required to minimize impacts to a level of less than significant: implementing agencies shall consider use of alternative energy sources for future OBMPU Projects; and, for those OBMPU facilities that are anticipated to utilize a substantial amount of energy for operations, subsequent CEQA documentation to address operational energy demands. With implementation of these mitigation measures, and compliance with current Federal and State regulations pertaining to energy conservation, the proposed OBMPU is anticipated to have a less than significant impact on energy demand and resources.

Mitigation Measures

The IEUA has determined that the Project would have a potentially significant impact as a result of the energy demanded by construction and operation of facilities associated with the OBMPU. Mitigation measures to reduce the impact to below a level of potential significance are provided below.

EN-1 Where feasible, future OBMPU Projects shall use alternative energy sources to serve the future OBMPU Facility energy demands. Examples of circumstances that would render use of alternative energy infeasible include, but are not limited to: lack of space within a given site for installation of alternative energy sources; fiscal infeasibility due

to lack of efficiency of alternative sources of energy when compared to the energy demand for a given project; etc.

EN-2 Future OBMPU Projects that are anticipated to utilize a substantial amount of energy for operations, such as regional groundwater treatment plants, pump stations, upgrades to expand capacity at existing water treatment plants, etc., shall undergo subsequent CEQA documentation to assess operational energy demands and GHG emissions related to energy demands.

IEUA finds that implementation of the above measures can reduce potential adverse impacts associated with the energy demand anticipated as a result of construction and operational activities proposed by the OBMPU. The above measure can be implemented without causing additional adverse environmental impacts. The above measures will be integrated into the proposed facilities that will be constructed without additional impacts on the environment. Since the Project, as analyzed above will not cause significant adverse impact to energy, implementation of the OBMPU is not forecast to result in any unavoidable Project specific or cumulative adverse impacts to energy.

7. Geology/Soils

a(i). Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: (i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

Finding: Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 141-142, IS, [Appendix 8.2, FSEIR])

There are three faults delineated on the Alquist-Priolo Earthquake Fault Zoning Map within and adjacent to the Chino Basin: the Elsinore Fault Zone (Chino Fault), which crosses the western boundary of the Chino Basin; the Red Hill-Etiwanda Avenue Fault, which traverses the northern boundary of the Chino Basin; and, a segment of the Sierra Madre Fault Zone, Cucamonga Section passes through the northwestern portion of the Chino Basin. Many OBMPU facilities would be located within developed sites containing desalter or water treatment facilities. None of these sites is located within an Alquist Priolo Earthquake Fault Zone. Because not all Projects locations are determined at this time, there is the potential for projects to be constructed and operated within an Alquist-Priolo Fault Zone. Projects proposed as part of all Project Categories that would be operated within these zones could expose structures to potential substantial adverse effects; therefore, mitigation is required to minimize impacts under this issue.

The implementation of MM **GEO-1** would ensure new facilities are located outside of delineated fault zones, or otherwise minimize impacts if located within a fault zone.

Ultimately, through the implementation of mitigation that would ensure that new facilities are located outside of delineated fault zones, or if located within a fault zone are analyzed thoroughly through a site specific geotechnical report with specific design recommendations or through a second tier CEQA evaluation, fault rupture-related impacts would be less than significant. As specific facilities are

proposed in the future, the associated environmental impacts will be evaluated in a subsequent Project-specific CEQA evaluation to allow a final determination on each future Project's specific impacts. Such review is appropriate and consistent with utilization of a program environmental document in accordance with Sections 15162 and 15168 of the State CEQA Guidelines.

a(iii). Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: (iii) Seismic-related ground failure, including liquefaction?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 145-146, IS, [Appendix 8.2, FSEIR])

Facts:

Given that the locations of many of the proposed OBMPU facilities are presently unknown, it is possible that future OBMPU facilities could be located within an area with a high potential for liquefaction, as liquefaction is known to occur within the Chino Basin area. OBMPU facilities located on or within (underground facilities, such as pipelines) soils with a moderate to high potential for liquefaction could experience damage or failure as a result of liquefaction. Therefore, mitigation is required to minimize impacts under this issue.

The implementation of MM **GEO-2** would reduce the potential impacts from liquefaction and landslide hazards through a design level geotechnical investigation with implementation of specific design recommendations.

Ultimately, through the implementation of mitigation that would ensure that OBMPU facilities are analyzed thoroughly through a site-specific geotechnical report with specific design recommendations, liquefaction-related impacts would be controlled to a less than significant impact.

a(iv). Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: (iv) Landslides?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 147, IS, [Appendix 8.2, FSEIR])

Facts:

Landslides and mudflow hazards exist throughout the Chino Basin on steep hillsides and in creek and streambed areas. Given that the locations of many of the proposed OBMPU facilities are presently unknown, it is possible that future OBMPU facilities could be located within an area with a high potential for landslide. OBMPU facilities located in areas that are highly susceptible to landslide could experience damage or failure as a result of of this geotechnical hazard. Therefore, mitigation is required to minimize impacts under this issue.

The implementation of Mitigation Measure (MM) **GEO-2** would reduce the potential impacts from landslide hazards through a design level geotechnical investigation with implementation of specific design recommendations.

Ultimately, through the implementation of mitigation that would ensure that OBMPU facilities are analyzed thoroughly through a site-specific geotechnical report with

specific design recommendations, landslide-related impacts would be less than significant.

b. Would the project result in substantial soil erosion or the loss of topsoil?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 149, IS, [Appendix 8.2, FSEIR])

Facts:

Construction activities for proposed OBMPU facilities such as excavation and grading could result in soil erosion during rain or high wind events. Development of the proposed OBMPU facilities would result in construction activities that would need to comply with South Coast Air Quality Management District (SCAQMD) Rule 403 for dust control that would ensure the prevention and/or management of wind erosion and subsequent topsoil loss. Compliance with SCAQMD Rule 403 would ensure that construction activities that generate wind-induced soil erosion are below significance thresholds.

For OBMPU projects that would disturb less than an acre, no Storm Water Pollution Prevention Plan (SWPPP) would be required. However, in order to prevent erosion associated with runoff from construction sites for each Project, the implementing agency will abide by best management practices (BMPs) to ensure that the discharge of storm runoff from construction sites does not cause erosion downstream to the discharge point. The implementation of BMPs will be enforced through mitigation. Additionally, for OBMPU projects that are less than one acre in size, compliance with minimum BMPs, as specified by the San Bernardino County MS4 Permit (SARWQCB, 2016), shall include erosion and sediment control BMPs for the construction site. Adherence to these conditions and mitigation identified would ensure that potential soil erosion and loss of topsoil impacts would be minimized to less than significant.

The implementation of MM **GEO-3** would ensure that the proposed facilities associated with the OBMPU that are less than one acre in size would not exacerbate conditions related to erosion associated with runoff from construction sites through the implementation of BMPs.

For OBMPU projects that would disturb an acre or more, a SWPPP—in accordance with the requirements of the statewide Construction General Permit (CGP)—would be required. The SWPPP would identify best management practices (BMPs) to control erosion, sedimentation, and hazardous materials potentially released from construction sites into surface waters. Compliance with the CGP, required SWPPP, and identified BMPs would ensure soil erosion and loss of topsoil impacts would be reduced to a level of less than significant.

Ultimately, through the implementation of mitigation that would ensure that BMPs are implemented for projects that would occupy less than one acre, and through compliance with the CGP, required SWPPP, and identified BMPs, the potential for the OBMPU to result in substantial soil erosion or the loss of topsoil would be less than significant.

c. Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in onsite or offsite landslide, lateral spreading, subsidence, liquefaction or collapse?

Finding: Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 151, IS, [Appendix 8.2, FSEIR])

Subsidence is the shrinking of earth material caused by natural or artificial removal Facts: This process occurs in poor, unconsolidated soils of underlying support. (sediment) and poorly compacted fills. Seismically induced groundshaking, both local and regional, and heavy rainfall contribute to naturally induced causes of The substantial lowering of groundwater may also result in subsidence. As identified in the OBMP FPEIR and this OBMPU FSEIR, a portion of the Chino Basin has experienced land subsidence related to extraction of groundwater from the area aquifer. The Project includes a robust discussion of subsidence within the Chino Basin under Hydrology and Water Quality (Subchapter 4.7 of the OBMPU FSEIR), and includes mitigation to address and minimize potential for new land subsidence from OBMPU implementation (MM HYD-3 and HYD-4). Given that the locations of many of the proposed OBMPU facilities are presently unknown, it is possible that any of the future OBMPU facilities could be located within a site with unstable soils, which could cause the facilities to experience damage or failure as a result; furthermore, groundwater pumping facilities, such as wells, could cause aquifer system compaction and land subsidence, which is known to occur within the Chino Basin. Additionally, subsidence and collapse could damage the proposed facilities and affect the safety of on-site or visiting employees. As such, mitigation is required to minimize impacts under this issue.

The implementation of MM **GEO-2** would reduce the potential impacts related to unstable soils through a design level geotechnical investigation with implementation of specific design recommendations for future OBMPU projects.

Ultimately, through the implementation of mitigation that would ensure that OBMPU facilities are analyzed thoroughly through a site-specific geotechnical report with specific design recommendations, the potential for OBMPU facilities to be significantly impacted through being located on a geologic unit or soil that is unstable, or that would become unstable as a result of the Project, and potentially result in onsite or offsite landslide, lateral spreading, subsidence, liquefaction or collapse would be less than significant.

d. Would the project be located on expansive soil, as defined in Table 18 1-B of the Uniform Building Code (1994), creating substantial risks to life or property?

<u>Finding:</u> Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 153, IS, [Appendix 8.2, FSEIR])

<u>Facts:</u> The entire Chino Basin generally has soils with low to moderate shrink-swell potential. When expansive soils swell, the change in volume can exert significant pressures on structural loads that are placed on them, such as loads resulting from structure foundations or underground utilities, and can result in structural distress

and/or damage. Most of the Chino Basin is comprised of old alluvial fans and valley deposits, which vary in composition. The specific soil properties of a site can vary on a small scale, and may include undetermined area soils that exhibit expansive properties. Given that the location of many future OBMPU facilities are unknown, there is a potential that such facilities could be installed within a site containing expansive soils. As such, mitigation is required to minimize impacts under this issue.

The implementation of MM **GEO-2** would reduce the potential impacts related to expansive soils through a design level geotechnical investigation with implementation of specific design recommendations for future OBMPU projects.

Ultimately, through the implementation of mitigation that would ensure that OBMPU facilities are analyzed thoroughly through a site-specific geotechnical report with specific design recommendations, the potential for OBMPU facilities to experience a significant adverse effect from being located on expansive soil, as defined in Table 18 1-B of the Uniform Building Code (1994), creating substantial risks to life or property would be less than significant.

f. Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 154-155, IS, [Appendix 8.2, FSEIR])

Facts:

Previous investigations in the region have identified the presence of significant paleontological resources where construction activities extend into or below the older alluvial sediment boundary. Since specific locations for the many OBMPU facilities have not been have yet to be determined, impacts to specific paleontological resources are speculative. Previously unknown and unrecorded paleontological resources may be unearthed during excavation and grading activities for individual projects, which could result in significant impacts. Therefore, mitigation will be implemented to address the potential for impacting paleontological resources.

The implementation of MM **GEO-4** would require a site-specific study to identify potentially significant paleontological resources, which would minimize potential impacts to paleontological resources.

Ultimately, through the implementation of mitigation that would require a site-specific study to identify potentially significant paleontological resources, the OBMPU will have a less than significant impact unique paleontological resources or unique geologic features.

Mitigation Measures

IEUA has determined that, because the Chino Basin contains substantial geological and soils-related constraints, the Project could experience potentially significant impact as identified in identified in Section VI of the IS, [Appendix 8.2, FSEIR]. Mitigation measures to reduce these impacts to below a level of potential significance are provided below.

- GEO-1: If a specific project is proposed within a designated Alquist-Priolo Fault Zone, the facility shall be relocated, if possible. If relocation is not possible, the project shall be designed in accordance with the California Building Code (CBC) and according to the recommendations generated by a project specific geotechnical study. If the project specific geotechnical study cannot mitigate potential seismic related impacts, then a second tier CEQA evaluation shall be completed.
- GEO-2: Prior to construction of each improvement, a design-level geotechnical investigation, including collection of site-specific subsurface data if appropriate, shall be completed. The geotechnical evaluation shall identify all potential seismic hazards including fault rupture, and characterize the soil profiles, including liquefaction potential, expansive soil potential, subsidence, and landslide potential. The geotechnical investigation shall recommend site-specific design criteria to mitigate for seismic and non-seismic hazards, such as special foundations and structural setbacks, and these recommendations shall be incorporated into the design of individual proposed projects.
- GEO-3: For each well development or other OBMPU projects that is less than one acre in size requiring ground disturbing activities such as grading, the Implementing Agency shall identify best management practices (BMPs, such as hay bales, wattles, detention basins, silt fences, coir rolls, etc.) to ensure that the discharge of the storm runoff from the construction site does not cause erosion downstream of the discharge point. If any substantial erosion or sedimentation occurs as a result of discharging storm water from a project construction site, any erosion or sedimentation damage shall be restored to pre-discharge conditions.
- GEO-4: For project-level development involving ground disturbance, a qualified paleontologist shall be retained to determine the necessity of conducting a study of the project area(s) based on the potential sensitivity of the project site for paleontological resources. If deemed necessary, the paleontologist shall conduct a paleontological resources inventory designed to identify potentially significant resources. The paleontological resources inventory would consist of: a paleontological resource records search to be conducted at the San Bernardino County Museum and/or other appropriate facilities; a field survey or monitoring where deemed appropriate by the paleontologist; and recordation of all identified paleontological resources. . Treatment of any discovered paleontological resources shall follow the Phasing and corresponding actions identified under MM CUL-2.

IEUA finds that implementation of the above measures can minimize geology and soils impacts to a less than significant level. The above measures can be implemented without causing additional adverse environmental impacts. The above measures will be integrated into the future development activities without additional impacts on the environment. Since the Project as analyzed above will not directly or indirectly cause significant adverse impact due to onsite or offsite geotechnical hazards with implementation of mitigation, the Project is not forecast to contribute to cumulatively considerable impacts due to geotechnical hazards to structures and facilities required to support the Project. Refer to the Hydrology and Water Quality discussion for additional measures that address subsidence.

8. Greenhouse Gas Emissions: Impacts under Greenhouse Gas Emissions were determined to be an unavoidable significant impact and cannot be mitigated below significance level. The discussion of Greenhouse Gas Impacts are below in Section C.3 of this document.

9. Hazards and Hazardous Materials

a. Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 170-171, IS, [Appendix 8.2, FSEIR])

Facts:

Installation of OBMPU facilities can require delivery of hazardous materials (such as petroleum products) to support their installation. Long term operation of some OBMPU facilities can require small quantities of hazardous materials, but typically only minimal quantities to keep equipment operating safely and efficiently. The anticipated construction activities required to develop OBMPU facilities will temporarily require the transport, use, and disposal of hazardous materials including gasoline, diesel fuel, hydraulic fluids, paint, and other similarly related materials. Operational activities could require modest quantities of hazardous materials, such as chemicals like chlorine (commonly in the form of sodium hypochlorite) to treat recycled water or potable water sources prior to distribution. The IS, [Appendix 8.2, FSEIR] identified several measures that would ensure that the use and generation of hazardous substances in support of OBMPU projects does not pose a significant hazard to workers, adjacent land uses and the environment.

Several mitigation measures were identified to minimize hazards and hazardous materials impacts including those that would: ensure that applicable OBMPU facilities' Business Plans incorporate best management practices designed to minimize the potential for accidental release of such chemicals; ensure that applicable OBMPU facilities' Business Plans identify the equipment and response capabilities required to provide immediate containment, control and collection of any released material (HAZ-1 & HAZ-2); ensure sensitive receptors will not be exposed to significant health threat by modeling the pathways of release and implementing specific measures that would minimize potential exposure to acutely hazardous materials (HAZ-3); ensure hazardous materials are disposed of and delivered to licensed facilities (HAZ-4); ensure the establishment of and adherence to specific thresholds of acceptable clean-up of hazardous materials (HAZ-5); and, ensure the preparation of and adherence to vector management plans (HAZ-6).

Additionally, the expansion of the storage bands within the Chino Basin has a potential to adversely impact known contamination plumes and unknown vadose zone contamination. These issues are addressed in the Subchapter 4.7 of the FSEIR, Hydrology & Water Quality in relation to increase groundwater storage and are all mitigable to a level of less than significant (See measures **HYD-1** through **HYD-11**).

Ultimately, through the implementation of substantive mitigation measures to minimize the potential for the OBMPU to create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials, the OBMPU would have a less than significant impact under this issue.

b. Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 173-174, IS, [Appendix 8.2, FSEIR])

Facts:

Both during construction and at specific facilities, such as water treatment facilities, a potential exists for accidental release of hazardous materials. releases of hazardous materials during construction or operations are readily controlled to a less than significant level of hazard through control or remediation of the material accidentally released. Because the construction equipment can contain enough petroleum products to damage the environment or expose people to hazardous emissions, the Agency requires compliance with Best Management Practices to manage clean-up of potential spills of hazardous materials during construction. This includes the Cal/OSHA regulations that provide for the proper labeling, storage, and handling of hazardous materials to reduce the potential harmful health effects that could result from worker exposure to hazardous materials. Agencies implementing OBMPU projects are required to comply with all relevant and applicable federal, state and local laws and regulations that pertain to the accidental release of hazardous materials during construction of proposed facilities—such as Health and Safety Code, Section 2550 et seq.—which can reduce potential impacts to the public or the environment regarding accidental release of hazardous materials to less than significant impact. A contingency mitigation measure is provided to ensure accidental releases and any related contamination do not significantly affect the environment at facility locations.

Operation of the proposed facilities could include the storage and use of chemicals. Any storage tanks would be designed in accordance with the applicable hazardous materials storage regulations for long-term use summarized in the Regulatory Framework. The delivery and disposal of chemicals to and from water and wastewater treatment facility sites would occur in full accordance with all applicable federal, state, and local regulations. Compliance with all applicable federal, state and local regulations regarding the handling, storage, transportation, and disposal of hazardous materials, and preparation and implementation of the Hazardous Materials Business Plan (HMBP) would reduce potential impacts to the public, employees, or the environment related to the transport, use, or disposal of hazardous materials to a less than significant impact.

Mitigation measure **HAZ-7** was identified to ensure remediation of an accidental spill or discharge of hazardous material in compliance with state and local regulations.

Ultimately, through the implementation of mitigation to minimize the potential for the OBMPU to create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment, the OBMPU would have a less than significant impact under this issue.

c. Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 176, IS, [Appendix 8.2, FSEIR])

Facts:

Due to the potentially extensive nature of facilities associated with implementing the OBMPU, it is possible that construction of proposed facilities would occur within one-quarter mile of a school. Construction activities would use limited quantities of hazardous materials, such as gasoline and diesel fuel. A Project proponent is required to comply with all relevant and applicable federal, State and local laws and regulations that pertain to the release of hazardous materials during construction of proposed facilities; compliance with these regulatons and compliance with MM **HAZ-1**—which would ensure remediation of an accidental spill or discharge of hazardous material in compliance with state and local regulations—would minimize impacts below significance thresholds.

Operation of proposed OBMPU facilities may also occur within one quarter mile of a school. As stated above under issue "b," the facilities proposed as part of the OBMPU may handle hazardous materials to serve water treatment operations. The established handling protocols would ensure that no significant operational impacts would occur as a result of OBMPU facility operations.

d. Would the project be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 178, IS, [Appendix 8.2, FSEIR])

Facts:

During construction of individual OBMPU facilities, it is possible that unknown contaminated soil and/or groundwater could be encountered during excavation, thereby posing a health threat to construction workers, the public, and the environment. Within the Chino Basin the contaminated locations can be divided into two categories. First, there are known surface contaminated sites of which there are more than 100 locations and which are generally limited in area. Second, there are larger legacy contamination sites that have cause extensive groundwater contamination plumes, such as the GE Flatiron plume. Therefore, mitigation will be implemented to prevent future site-specific conflicts or impacts between OBMPU facilities and such sites.

The implementation of MMs **HAZ-8** and **HAZ-9** would require site-specific studies to identify known hazardous materials risks or the potential for risk related to hazardous materials. These studies would identify recommendations and cleanup measures to reduce risk to the public and the environment from development on hazardous materials sites. Implementation of MMs **HAZ-8** and **HAZ-9** would reduce potential impacts to construction workers and the public from exposure to unknown affected soils. Therefore, impacts to the public or the environment related to hazardous materials sites would be less than significant.

e. Would the project, for a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?

Finding: Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 180-181, IS, [Appendix 8.2, FSEIR])

Facts: The following three airports are located within the Chino Basin boundaries: Chino Airport, Ontario International Airport, and Cable Airport in Upland. There are no private airstrips located within the Chino Basin. Most proposed facility locations have not yet been determined, and therefore, have the potential to be sited within an airport land use plan area, which in turn could result in a safety hazard to airport flight patterns, light, or navigation resulting in a significant impact. If a location within a safety zone is required compliance with mitigation can reduce potential environmental impacts to a less than significant level.

The implementation of MM **HAZ-10** would ensure compliance with the appropriate airport land use plan and coordination with the appropriate airport management agencies to ensure safety for people residing or working within the Project area. Implementation of MM **HAZ-10** would reduce potential impacts from development within an airport safety zone to a less than significant impact.

f. Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?

<u>Finding:</u> Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 183-184, IS, [Appendix 8.2, FSEIR])

Facts:

Major evacuation routes are located within the Chino Basin along major interstates, freeways and major north-south and east-west roads. The Project activities and facilities have no potential to permanently impact emergency evacuation plans or emergency response plans over the long-term. In the short-term, construction activities related to pipeline and other infrastructure system improvements located within existing road rights-of-way have a potential to interfere with such plans. Mitigation measure **HAZ-11** would be required to minimize impacts related to emergency access during construction. Operation of the proposed facilities would not impair or physically interfere with an adopted emergency response plan or emergency evacuation plan. Maintenance activities would require minimal trips and would not significantly impact the surrounding roadways.

The implementation of MM **HAZ-11** would require the preparation of a Traffic Control Plan with comprehensive strategies to reduce disruption to emergency access. This issue is also evaluated in the Traffic Section (Section XVII of the IS, [Appendix 8.2, FSEIR]) and implementation of mitigation will ensure that roads under construction remain passable or that alternative routes (detours) are available both during daily construction and at the end of the day after construction is completed. Therefore, potential significant impacts to emergency access would be reduced to less than significant.

g. Would the project expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 185-186, IS, [Appendix 8.2, FSEIR])

Facts:

CAL FIRE designates all areas immediately within or surrounding these areas as "Non-Very High Fire Hazard Severity Zone (Non-VHFHSZ). The proposed OBMPU facilities would generally not expose people or structures to a significant risk of loss, injury or death involving wildland fires. The use of spark-producing construction machinery within a fire risk area could create hazardous fire conditions and expose people or structures to wildfire risks. If OBMPU facilities must be installed within high or severe fire hazard areas, a potential exists to cause a significant wildfire hazard; therefore, mitigation is required to minimize the potential for such impacts to occur.

During operation, the proposed facilities would distribute recycled, imported, and treated water throughout the Project area, and these facilities would not be constructed of flammable materials or involve any spark- producing activities. However, many of the ancillary facilities will be supplied and operate on electricity. Therefore, mitigation must be implemented to minimize fire hazards at proposed OBMPU facilities in high and very high fire severity zones.

The implementation of MM **HAZ-12** would ensure implementation of fire hazard reduction measures during construction in areas designated as VHFHSZs to reduce the potential for wildfire impacts on people or structures to a less than significant impact. Operational impacts would also be reduced to a less than significant impact through the same measure. Therefore, with implementation of mitigation, potentially significant impacts related to wildland fire would be reduced to a level of less than significant.

Mitigation Measures

IEUA has determined that the Project could create significant health hazards or exposure to such hazards from construction and occupancy/operation of the future OBMPU facilities. Mitigation measures to reduce this impact to below a level of potential significance are provided below.

- HAZ-1: For OBMPU facilities that handle hazardous materials or generate hazardous waste, the Hazardous Materials Business Plan prepared and submitted to the Certified Unified Program Agency shall incorporate best management practices designed to minimize the potential for accidental release of such chemicals and will meet the standards required by California law for Hazardous Materials Business Plans. The facility managers shall implement these measures to reduce the potential for accidental releases of hazardous materials or wastes. The Hazardous Materials Business Plan shall be approved prior to operation of the given facility.
- HAZ-2: The Hazardous Materials Business Plan shall assess the potential accidental release scenarios and identify the equipment and response capabilities required to provide immediate containment, control and collection of any released hazardous material. Prior to issuance of the certificate of occupancy, each facility shall satisfy the Implementing Agency that necessary equipment, has been installed and training of

- personnel has occurred in responses and to obtain sufficient resources to control and prevent the spread of any accidentally released hazardous or toxic materials.
- HAZ-3: Prior to issuing the certificate of occupancy for any storage of any acutely hazardous material at an OBMPU facility, such as chlorine gas, modeling of pathways of release and potential exposure of the public to any released material shall be completed and specific measures, such as secondary containment, shall be implemented to the satisfaction of the Implementing Agency to ensure that sensitive receptors will not be exposed to significant health threats based on the toxic substance involved.
- HAZ-4: All hazardous contaminated material shall be delivered to a licensed treatment, disposal or recycling facility and be disposed of in accordance with California and federal law.
- HAZ-5: Before determining that an area contaminated as a result of an accidental release is fully remediated, specific thresholds of acceptable clean-up shall be established and sufficient samples shall be taken within the contaminated area to verify that these clean-up thresholds have been met in compliance with state and federal law.
- HAZ-6: Vector management plans shall be prepared and use of pesticides shall be reviewed and coordinated with the West Valley Mosquito and Vector Control District for approval prior to implementing vector control at any of the new or expanded storage basins. All pesticides shall be applied in accordance with State and label requirements to minimize potential for residual concentrations that may be considered adverse to public health and water quality.
- HAZ-7: All accidental spills or discharge of hazardous material during construction activities shall be reported to the Certified Unified Program Agency and shall be remediated in compliance with applicable state and local regulations regarding cleanup and disposal of the contaminant released. The contaminated waste will be collected and disposed of at a licensed disposal or treatment facility. This measure shall be incorporated into the SWPPP prepared or each future facility developed under the OBMPU SEIR. Prior to accepting the site as remediated, the area contaminated shall be tested to verify that any residual concentrations meet the standard for future residential or public use of the site.
- HAZ-8: Prior to final site selection for future OBMPU facilities, the implementing agency shall obtain a Phase I Environmental Site Assessment (ESA) for the selected site. If a site contains contamination the agency shall either avoid the site by selecting an alternative location or shall remove any contamination (remediate) at the site to a level of concentration that eliminates hazard to employees working at the site and that will not conflict with the installation and future operation of the facility. For sites located on agricultural land, this can include soil contaminated with unacceptable concentrations of pesticides or herbicides that shall be remediated through removal or blending to reduce concentrations below thresholds of significance established for the particular pesticide or herbicide in compliance with California and federal law.
- HAZ-9: Should an unknown contaminated site be encountered during construction of OBMPU facilities, all work in the immediate area shall cease; the type of contamination and its extent shall be determined; and the local Certified Unified Program Agency or other regulatory agencies (such as the DTSC or Regional Board) shall be notified. Based on investigations of the contamination, the site may be closed and avoided or the contaminant(s) shall be remediated to a threshold acceptable to the Certified Unified Program Agency or other regulatory agency threshold and any contaminated soil or other material shall be delivered to an authorized treatment or disposal site.
- HAZ-10: Prior to finalizing sit selection of an OBMPU facility within an airport safety zone, input from the affected airport management entity shall be solicited. For projects within airport safety zones, facility design shall follow the guidelines of the appropriate airport land use compatibility plan. If a potential conflict with an airport land use compatibility plan is identified, the implementing agency shall relocate the facility outside the area of conflict, or if the site is deemed essential, the implementing agency shall propose an alternative design that reduces any conflict to a less than significant level of conflict. As

an example, a pump station or reservoir could be installed below ground instead of above ground.

- HAZ-11: Prior to initiating construction of proposed facilities, the implementing agency shall prepare and implement a Traffic Control Plan that contains comprehensive strategies for maintaining emergency access. Strategies shall include, but are not limited to, maintaining steel trench plates at the construction sites to restore access across open trenches and identification of alternate routing around construction zones. In addition, police, fire, and other emergency service providers (local agencies, Caltrans, and other service providers) shall be notified of the timing, location, and duration of the construction activities and the location of detours and lane closures. The implementing agency shall ensure that the Traffic Control Plan and other construction activities are consistent with the San Bernardino County Operational Area Emergency Response Plan, and are reviewed and approved by the local agency with authority over the roadways.
- HAZ-12: Prior to construction of facilities located in areas designated as High or Very High Fire Hazard Severity Zones (VHFHSZs) by CAL FIRE, fire hazard reduction measures shall be incorporated into a fire management plan for the proposed facility, and shall be implemented during construction. These measures shall address all staging areas, welding areas, or areas slated for development that are planned to use spark-producing equipment. These areas shall be cleared of dried vegetation or other material that could ignite. Any construction equipment that includes a spark arrestor shall be equipped with a spark arrestor in good working order. During the construction of the project facilities, all vehicles and crews working at the project site shall have access to functional fire extinguishers at all times. In addition, construction crews shall have a spotter during welding activities to look out for potentially dangerous situations, including accidental sparks. This plan shall be reviewed by the Implementing Agency and CALFIRE and approved prior to construction within high and very high severity zones and implemented once approved. The fire management plan shall also include sufficient defensible space or other measures at a facility site located in a high or very high fire severity area to minimize fire damage to a level acceptable to the Implementing Agency.

Though the OBMPU would have a potential to result in some potentially significant adverse impacts as a result of implementing the Project, specific mitigation measures have been identified to reduce potential Project specific and cumulative (direct and indirect) effects to a less than significant impact level for hazards and hazardous material issues. Thus, the Project is not forecast to cause any unavoidable significant adverse hazards or hazardous material impacts.

10. Hydrology and Water Quality

- a. Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?
- b. Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such the project may impede sustainable groundwater management of the basin?

The facts and findings below apply both to impacts (a) and (b).

<u>Finding:</u> Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 4-199 to 4-205, FSEIR)

Facts: The OBMPU is a groundwater management program that requires physical projects proposed as part of the OBMPU in order to implement the program

elements. Wildermuth Environmental, Inc. (WEI) has modeled and analyzed the impacts that implementation of the OBMPU would have on the Chino Basin, and through the analysis contained in the FSEIR, have demonstrated that the OBMPU would result in a less than significant potential to violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality, and would result in a less than significant potential to substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the Project may impede sustainable groundwater management of the basin.

The table below is extracted from the FSEIR, and summarizes the impacts to the basin from the use of storage by future Storage and Recovery Program scenarios.

TABLE 4.7-4
SUMMARY OF CONCLUSIONS FOR OPERATIONAL BANDS 2, 3, AND 4,
AND SCENARIOS 2, 3 AND 4

| | Scenario | | | | |
|--|--|---|-------|-------------|-------|
| | 2C ¹ | 3A | 3B | 4A | 4B |
| Operational Bands | 2 | 2 and 3 | | 2, 3, and 4 | |
| Range in Managed Storage Used for Storage and Recovery Programs | 700,000 to 800,000 af | 700,000 to 900,000 af 700,000 to 1,000,0 | | ,000,000 af | |
| New Land Subsidence | None | | | | |
| Pumping Sustainability | No new pumping sustainability challenges | Potential new pumping sustainability challenges | | | |
| Average Annual Reduction in Net Recharge as a Percentage of Average Annual Storage Space Used | 2.41% | 1.5% | 1.48% | 1.46% | 1.50% |
| Hydraulic Control | Maintained | Maintained; however, the groundwater discharge through the CCWF is projected to increase and approach the Hydraulic Control standard. | | | |
| Contaminant Plumes | Potential MPI related to GE Flat Iron and Test Cell plumes | | | | |

¹ The annual reduction in net recharge for Scenarios 2A and 2B was estimated to be 2.41 percent. This loss in net recharge was mitigated in Scenario 2C by reducing the takes by the net recharge reduction. This type of mitigation may help maintain pumping sustainability in Scenario 2C. This mitigation was not included in Scenarios 3A, 3B, 4A, and 4B, and may contribute to the pumping sustainability challenges identified for these scenarios.

The groundwater level impacts are spatially varying, and they are embedded in the impact assessment for new land subsidence and pumping sustainability. The Storage and Recovery Program scenarios analyzed herein will cause a reduction in storage if the storage-induced reduction in net recharge is not accounted for. As mentioned earlier, one way to mitigate the storage program induced reduction in net recharge is to reduce the takes by the amount of reduced net recharge. Not addressing the storage program induced reduction in net recharge will reduce the Safe Yield allocated to the Appropriative Pool parties, cause overdraft, or both, and will cause pumping sustainability challenges.

Storage and Recovery Program Scenarios 2C, 3B, and 4B are projected to affect the direction and speed of the GE Flat Iron and Test Cell plumes.

Watermaster will periodically review current and projected basin conditions, compare this information to the projected basin conditions assumed in the evaluation of the Storage and Recovery Program application process, compare the projected Storage and Recovery Program operations to actual Storage and Recovery Program operations. Watermaster will then make findings regarding the efficacy of the mitigation program and requirements required herein and by the Storage and Recovery Program storage agreements. Based on Watermaster's review and subsequent findings, where applicable, Watermaster will then require changes and/or modifications in the Storage and Recover Program storage agreements that would adequately mitigate material physical inhury (MPI) and related adverse impacts. Mitigation measures are explained and provided below. These measures address each the issues outlined in Subchapter 4.7, Hydrology and Water Quality of the FSEIR under issues "a" and "b."

Note the FSEIR acknowledges that monitoring is not mitigation in and of itself, but it is essential to the Watermaster's mitigation process because it provides the necessary information to identify the potential for a significant adverse impact to the Chino Groundwater Basin. Data indicating a significant impact may be evolving will allow Watermaster to initiate any of the mitigation measures outlined below that can reduce or eliminate the potential impact identified through monitoring. The text below identifies how this can be accomplished.

Pumping Sustainability

MMs HYD-1 and HYD-2 address impacts related to pumping sustainability in the Chino Basin; these measures would ensure that Watermaster gathers the appropriate data to (1) determine whether future OBMPU projects would result in loss of pumping sustainability, and (2) respond with appropriate mitigation to minimize the potential loss of pumping sustainability that may occur from a Project or, where mitigation is not feasible, reject the Project. These measures would enable the Watermaster to prevent adverse impacts related to pumping sustainability that may result from implementation of future OBMPU Projects.

<u>Subsidence</u>

MMs HYD-3 and HYD-4 address potential new subsidence within the Chino Basin; these measures would ensure that Watermaster gathers the appropriate data to respond (1) determine whether future OBMPU projects would result in new subsidence, and (2) respond with appropriate mitigation to minimize the potential for new subsidence that may occur from a Project or, where mitigation is not feasible, reject the Project. These measures would enable the Watermaster to prevent adverse impacts related to new subsidence that may result from implementation of future OBMPU Projects.

Net Recharge and Safe Yield

MMs HYD-5 and HYD-6 address potential reduction in net recharge and impacts to Safe Yield within the Chino Basin; these measures would ensure that Watermaster gathers the appropriate data to (1) determine whether future OBMPU projects would result in potential reduction in net recharge and impacts to Safe Yield, and (2) respond with appropriate mitigation to minimize the potential for a reduction in net recharge and for impacts to Safe Yield that may occur from a Project or, where mitigation is not feasible, reject the Project. These measures would enable the Watermaster to prevent adverse impacts related to potential reduction in net

recharge and impacts to Safe Yield that may result from implementation of future OBMPU Projects.

Hydraulic Control

MMs **HYD-7** and **HYD-8** address potential adverse impacts to Hydraulic Control of the Chino Basin; these measures would ensure that Watermaster gathers the appropriate data to (1) determine whether future OBMPU projects would result in potential adverse impacts to Hydraulic Control, and (2) respond with appropriate mitigation to minimize potential adverse impacts to Hydraulic Control that may occur from a Project or, where mitigation is not feasible, reject the Project. These measures would enable the Watermaster to prevent adverse impacts to Hydraulic Control that may result from implementation of future OBMPU Projects.

Water Quality

MMs **HYD-9** and **HYD-10** address potential degradation of water quality within the Chino Basin; these measures would ensure that Watermaster gathers the appropriate data to (1) determine whether future OBMPU projects would result in potential degradation of water quality, and (2) respond with appropriate mitigation to minimize potential degradation of water quality that may occur from a Project or, where mitigation is not feasible, reject the Project. These measures would enable the Watermaster to prevent potential degradation of water quality that may result from implementation of future OBMPU Projects.

General Impacts to Groundwater from OBMPU Implementation

Mitigation measure **HYD-11** addresses the plan of response by Watermaster should the Basin conditions come to vary from the projections that have been modeled as part of the OBMPU (and all supporting documentation). This measure would enable Watermaster to modify previously agreed upon mitigation measures to address actual basin conditions and apply these measures to OBMPU projects that have obtained storage agreements and to future OBMPU projects. This allows for flexibility in how Watermaster approaches minimizing the groundwater issues outlined herein to below significance levels. Furthermore, Watermaster is able to accept or reject projects based on a Project's ability to avoid the basin constraints outlined herein, which will ultimately minimize impacts related to groundwater from implementation of the OBMPU to below significance thresholds.

Based on this information, the Project does not substantially decrease groundwater supplies or interfere substantially with groundwater recharge such the Project may impede sustainable groundwater management of the basin.

c(i). Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would: (i) result in substantial erosion or siltation onsite or offsite?

<u>Finding:</u> Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 4-208 to 4-210, FSEIR)

Facts: The majority of the proposed facilities would not alter the course of a stream or river; though the installation of some monitoring devices would be placed within surface water, these devices would not substantially impact the course of a stream

or river due to their small size. The construction of proposed facilities would require activities that would temporarily alter each Project site's existing ground surface and drainage patterns. Compliance with the CGP, SWPPP, County MS4 Permits, and BMPs enforced through mitigation provided below would minimize all construction impacts to less than significant levels. The presence of all new facilities at each Project site could change permeable and impermeable surfaces and alter the direction and volume of overland flows. As such, mitigation is required.

MM **HYD-12** would require implementation of BMPs for projects of less than one acre in size that would be comparable to the requirements of the CGP and SWPPP, which are required for larger projects.

During Project design, overland flows and drainage at each OBMPU Project site would be assessed and drainage facilities would be designed such that no net increase in runoff would occur, in accordance with the Riverside and San Bernardino County MS4 Permits. As required by MM **HYD-13**, either surface runoff shall be collected and retained or a grading and drainage plan would be developed during Project design and implemented to ensure no increase in offsite discharges would occur and no substantial increase in erosion or sedimentation would occur. Impacts would be less than significant with mitigation.

MM HYD-14 would require OBMPU projects at existing well sites to remain within disturbed areas wherever feasible to minimize the potential for further ground disturbance at these sites, which may result in substantial siltation or erosion. MM HYD-15 would require all disturbed areas that are not covered in hardscape or vegetation would be revegetated or landscaped at future OBMPU facility sites to minimize the potential for erosion on- or off-site.

The mitigation measures identified above are required to address potential impacts related to onsite drainage at future OBMPU facilities. Ultimately, with implementation of these mitigation measures, the OBMPU would have a less than significant potential to result in substantial or cumulatively considerable erosion or siltation onsite or offsite.

c(ii). Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would: (ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding onsite or offsite?

<u>Finding:</u> Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 4-212 to 4-214, FSEIR)

Facts:

The construction of proposed facilities would require activities that could temporarily alter each Project site's existing ground surface and drainage patterns. Compliance with the CGP, SWPPP, County MS4 Permits, and BMPs enforced through mitigation provided below would minimize all construction impacts to less than significant levels. The presence of all new facilities at each Project site could change permeable and impermeable surfaces and alter the direction and volume of overland flows. As such, mitigation is required to address the increased potential for flooding on- or off-site.

MM **HYD-12** would require implementation of BMPs for projects of less than one acre in size that would be comparable to the requirements of the CGP and SWPPP, which are required for larger projects. This measure would control urban runoff and thereby reduce potential on- and off-site flooding.

During Project design, overland flows and drainage at each OBMPU Project site would be assessed and drainage facilities would be designed such that no net increase in runoff would occur, in accordance with the Riverside and San Bernardino County MS4 Permits. As required by MM **HYD-13**, either surface runoff shall be collected and retained or a grading and drainage plan would be developed during Project design and implemented to ensure no increase in offsite discharges would occur and no substantial increased potential on- or off-site flooding would occur. Impacts would be less than significant with mitigation.

MM HYD-14 would require OBMPU projects at existing well sites to remain within disturbed areas wherever feasible to minimize the potential for further ground disturbance at these sites, which may result in on- or off-site flooding. MM HYD-15 is also required to ensure that a management plan for each storage or recharge basin is established to ensure the safety of surrounding property and people from undue risks associated with water-related hazards such as flooding. This measure would reduce the potential for flooding on- or off-site.

The mitigation measures identified above are required to address potential impacts related to onsite drainage at future OBMPU facilities. Ultimately, with implementation of these mitigation measures, the OBMPU would have a less than significant potential to substantially increase the rate or amount of surface runoff in a manner which would result in flooding onsite or offsite.

c(iii). Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would: (iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 4-215 to 4-217, FSEIR)

Facts:

The construction of proposed facilities would require activities that would temporarily alter each Project site's existing ground surface and drainage patterns, which could result in excess runoff. Compliance with the CGP, SWPPP, County MS4 Permits, and BMPs enforced through mitigation provided below would minimize all construction impacts to less than significant levels.

The presence of all new facilities at each Project site could change permeable and impermeable surfaces and alter the direction and volume of overland flows. As such, mitigation to address implementation of a drainage management plan or otherwise retain runoff onsite for each Project is required to reduce potential for OBMPU facilities to create or contribute runoff that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff.

MM **HYD-12** would require implementation of BMPs for projects of less than one acre in size that would be comparable to the requirements of the CGP and SWPPP, which are required for larger projects. This measure would control urban runoff and thereby reduce potential for substantial polluted runoff.

During Project design, overland flows and drainage at each OBMPU Project site would be assessed and drainage facilities would be designed such that no net increase in runoff would occur, in accordance with the Riverside and San Bernardino County MS4 Permits. As required by MM **HYD-13**, either surface runoff shall be collected and retained or a grading and drainage plan would be developed during Project design and implemented to ensure no increase in offsite discharges would occur and no substantial contribution of runoff to area drainage systems would occur. Impacts would be less than significant with mitigation.

MM HYD-14 would require OBMPU projects at existing well sites to remain within disturbed areas wherever feasible to minimize the potential for further ground disturbance at these sites, which may result in excess runoff. MM HYD-16 is also required to ensure that significant polluted runoff does not occur from contaminated discharge that may result from refurbishing or capping a well. Implementation of these mitigation measures would ensure that the Project does not contribute substantial runoff; as such, impacts are less than significant. MM HYD-17 is provided to ensure that brine generated by water treatment systems would be disposed of in a manner that would minimize the potential for release of polluted runoff.

The mitigation measures identified above are required to address potential impacts related to onsite drainage at future OBMPU facilities. Ultimately, with implementation of these mitigation measures, the OBMPU would have a less than significant potential to create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff.

c(iv). Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would: (iv) impede or redirect flood flows?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 4-219 to 4-220, FSEIR)

Facts:

The construction of proposed facilities would require activities that would temporarily alter each Project site's existing ground surface and drainage patterns, which could result in impeding or redirecting flood flows. Compliance with the CGP, SWPPP, County MS4 Permits, and BMPs enforced through mitigation provided below would minimize all construction impacts to less than significant levels.

The presence of all new facilities at each Project site could change permeable and impermeable surfaces and alter the direction and volume of overland flows. As such, mitigation to address implementation of a drainage management plan or otherwise retain runoff onsite for each Project is required to reduce potential for

OBMPU facilities to impede or redirect flood flows. Furthermore, given that the Chino Basin contains areas that are located within flood hazard zones, the development of several facilities in a given area may, when combined, result in a substantial potential to impede or redirect flows; as such, mitigation is required to minimize impacts thereof.

During Project design, overland flows and drainage at each OBMPU Project site would be assessed and drainage facilities would be designed such that no net increase in runoff would occur, in accordance with the Riverside and San Bernardino County MS4 Permits. As required by MM **HYD-13**, either surface runoff shall be collected and retained or a grading and drainage plan would be developed during Project design and implemented to ensure no increase in offsite discharges would occur and no substantial increased potential for impeding or redirecting flood flows would occur. Impacts would be less than significant with mitigation.

MM HYD-15 is also required to ensure that a management plan for each storage or recharge basin is established to ensure the safety of surrounding property and people from undue risks associated with water-related hazards such as flooding. This measure would ensure no substantial increased potential for impeding or redirecting flood flows would occur. The Chino Basin contains several areas in the 100-year floodplain, particularly given the creeks, channels, and Santa Ana River that are within or along the boundaries of the Chino Basin. As such, MM HYD-18 would ensure that future OBMPU projects located within a floodplain would be further evaluated to determine their potential to impede or redirect flood flows.

The mitigation measures identified above are required to address potential impacts related to onsite drainage at future OBMPU facilities. Ultimately, with implementation of these mitigation measures, the OBMPU would have a less than significant potential to impede or redirect flows.

d. Would the project In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 4-222 to 4-223, FSEIR)

Facts:

The presence of all new facilities at each Project site could create a new risk for pollutants within a given site to be released as a result of inundation. As such, mitigation to address implementation of a drainage management plan or otherwise retain runoff onsite for each Project is required to reduce potential for OBMPU facilities to risk release of pollutants from inundation. Furthermore, given that the Chino Basin contains areas that are located within flood hazard zones, the development of several facilities in a given area may, when combined, result in a substantial potential to release pollutants as a result of inundation; as such, mitigation is required to minimize impacts thereof.

As required by MM HYD-13, either surface runoff shall be collected and retained or a grading and drainage plan would be developed during Project design and implemented to ensure that pollutants are managed on site and the potential for

risk of release thereof due to inundation is minimized. Impacts would be less than significant with mitigation.

MM HYD-15 is also required to ensure that a management plan for each storage or recharge basin is established to ensure the safety of surrounding property and people from undue risks associated with water-related hazards such as flooding. This measure would ensure no substantial increased potential for release pollutants as a result of inundation would result from implementation of the OBMPU. The Chino Basin contains several areas in the 100-year floodplain, particularly given the creeks, channels, and Santa Ana River that are within or along the boundaries of the Chino Basin. As such, MM HYD-17 would ensure that future OBMPU projects located within a floodplain would be further evaluated to determine their potential to result in significant impacts related to flood inundation. MM HYD-18 is provided to ensure that brine generated by water treatment systems would be disposed of in a manner that would minimize the potential to release pollutants as a result of inundation.

The mitigation measures identified above are required to address potential impacts related to flooding and pollutant release at future OBMPU facilities. Ultimately, with implementation of these mitigation measures, the OBMPU would have a less than significant potential to risk release of pollutants due to potential Project inundation.

e. Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 4-223 to 4-224, FSEIR)

Facts:

Watermaster and the IEUA are co-permittees for the Chino Basin maximum-benefit SNMP incorporated in the Basin Plan (see Section 3.4.3.7 of Chapter 3 of the FSEIR). The Project will be operated such that there is no conflict with or obstruction of the Basin Plan. The current OBMPU contains a set of management programs that will improve the reliability and long-term sustainability of the Chino Basin and the water supply reliability of the Judgment Parties and sets the framework for the next 30 years of basin-management activities. The OBMPU specifically aims for sustainability in Goal No.3 - Enhance Management of the Basin. The intent of this goal is to encourage sustainable management of the Chino Basin to avoid Material Physical Injury, promote local control, and improve water-supply reliability for the benefit of all Chino Basin Parties. As such, the proposed OBMPU is not anticipated to conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan.

Mitigation Measures

The IEUA has determined that the Project may adversely impact the hydrology of the Chino Basin and water quality during construction and operation. Mitigation to reduce these potential impacts to below a level of potential significance is provided below.

HYD-1: Watermaster shall review each Storage and Recovery Program application, and estimate the surface and ground water systems response (estimate the potential for loss of pumping sustainability). Watermaster shall then prepare a report that describes

the response and potential Material Physical Injury (MPI) to the Chino Basin, and shall develop mitigation requirements pursuant to MM HYD-2 to mitigate MPI caused by the proposed Storage and Recovery Program. The Storage and Recovery Program Applicant (Implementing Agency) will develop mitigation measures pursuant to these requirements established by the Watermaster; these measures shall be incorporated into their Storage and Recovery Program application. Upon approval by Watermaster, these mitigation measures will be incorporated into the Storage and Recovery Program storage agreement. Applications that do not adequately mitigate the potential for loss of pumping sustainability, which will be determined by the Watermaster based on the preceding analysis, shall not be accepted and therefore will not be developed.

- HYD-2: To mitigate MPI caused by a proposed Storage and Recovery Program Application (as described above under HYD-1), the data gathered through Watermaster's comprehensive groundwater-level monitoring shall be used to identify potential impacts on pumping sustainability and to develop mitigation requirements to mitigate for these impacts. Potential mitigation includes, but is not limited to: (1) modifying the put and take cycles to minimize impacts to pumping sustainability, (2) strategically increasing supplemental water recharge to mitigate loss of pumping sustainability, (3) modifying a party's affected well (lowering pump bowls), (4) providing an alternate supply to the affected party to ensure it can meet its demands, (5) a combination of (1) through (4), and (6) the implementation of a monitoring program to verify the effectiveness of the mitigation actions. The operation of certain facilities proposed as part of the OBMPU can be used to implement these mitigation actions.
- HYD-3: Watermaster shall review each Storage and Recovery Program application, and estimate the surface and ground water systems response (estimate the potential for new land subsidence). Watermaster shall then prepare a report that describes the response and potential MPI to the Chino Basin, and shall develop mitigation requirements pursuant to MM HYD-4 to mitigate MPI caused by the proposed Storage and Recovery Program. The Storage and Recovery Program Applicant (Implementing Agency) will develop mitigation measures pursuant to these requirements established by the Watermaster; these measures shall be incorporated into their Storage and Recovery Program application. Upon approval by Watermaster, these mitigation measures will be incorporated into the Storage and Recovery Program storage agreement. Applications that do not adequately mitigate the potential for new land subsidence, which will be determined by the Watermaster, shall not be accepted and therefore will not be developed.
- HYD-4: To mitigate the potential for new land subsidence caused by a proposed Storage and Recovery Program Application (as described above under HYD-3), the data gathered through Watermaster's comprehensive groundwater-level and ground-level monitoring shall be used to identify the potential for new land subsidence and to develop mitigation requirements to mitigate for these impacts. Potential mitigation includes, but is not limited to: (1) limiting facilities and operations of the Storage and Recovery Programs to MZ-2 and -3, (2) modifying the put and take cycles to ensure the Storage and Recovery Program does not contribute to the lowering of groundwater-levels below the new land subsidence metric, (4) providing an alternate supply to MZ-1 producers to maintain groundwater-levels above the new land subsidence metric, to the extent that the Storage and Recovery Program operation affect them, (5) a combination of (1) through (4) above, and (6) the implementation of a monitoring program to verify the effectiveness of the mitigation actions. The operation of certain facilities proposed as part of the OBMPU can be used to implement these mitigation actions.
- HYD-5: Watermaster shall estimate the reduction in net recharge and Safe Yield for each Storage and Recovery Program/Project and deduct it from water stored in each Storage and Recovery Program storage account, which will compensate for its impact on net recharge and Safe Yield. Watermaster shall review these impacts and develop mitigation requirements pursuant to MM HYD-6 for the proposed Storage and Recovery Program. The Storage and Recovery Program Applicant (Implementing Agency) will develop mitigation measures pursuant to the requirements established by Watermaster; these measures shall be incorporated into the Applicant's Storage and Recovery Program application. Upon approval by Watermaster, these mitigation measures shall

be incorporated into the Storage and Recovery Program storage agreement. Applications that do not adequately mitigate adverse impacts on net recharge and Safe Yield, which will be determined by Watermaster, shall not be accepted and therefore will not be developed.

- HYD-6: To mitigate impacts on net recharge and Safe Yield caused by a proposed Storage and Recovery Program Application (as described above under HYD-5), the Watermaster's comprehensive monitoring and modeling that estimates net recharge of the Chino Basin shall be used to identify potential and actual losses of net recharge and to develop mitigation requirements to mitigate impacts thereof. Potential mitigation includes, but is not limited to: (1) modifying the put and take cycles to minimize reductions in net recharge, (2) deducting the reduction in net recharge from its Storage and Recovery account, (3) recharge additional water to mitigate reductions in net recharge, (4) construct facilities in the southern part of the basin to eliminate the reduction of net recharge due to Storage and Recovery Programs, (5) a combination of (1) through (4), and (6) the implementation of a monitoring program to verify the effectiveness of the mitigation actions. The operation of certain facilities proposed as part of the OBMPU can be used to implement these mitigation actions.
- HYD-7: Watermaster shall estimate the projected impacts that each Storage and Recovery Program may have on Hydraulic Control and review these impacts and develop mitigation requirements for the proposed Storage and Recovery Program. The Storage and Recovery Program Applicant (Implementing Agency) will develop mitigation measures pursuant to the requirements established by Watermaster and MM HYD-8; these measures shall be incorporated into the Applicant's Storage and Recovery Program application. Upon approval by Watermaster, these mitigation measures shall be incorporated into the Storage and Recovery Program storage agreement. Applications that do not adequately mitigate adverse impacts on hydraulic control, which will be determined by Watermaster, shall not be accepted and therefore will not be developed.
- HYD-8: To mitigate for potential impacts on Hydraulic Control caused by a proposed Storage and Recovery Program Application (as described above under HYD-7), the Watermaster's comprehensive monitoring and modeling that assesses the state of Hydraulic Control in Chino Basin shall be used to estimate groundwater outflow from Chino North to the Santa Ana River, assess the state of Hydraulic Control, determine if the Storage and Recovery Program will cause a loss of hydraulic control, and develop mitigation requirements to mitigate for impacts to the state of Hydraulic Control. Potential mitigation includes, but is not limited to: (1) modifying the put and take cycles to minimize discharges to the Santa Ana River and maintain Hydraulic Control, (2) construct facilities in the southern part of the basin to minimize discharges to the Santa Ana River and maintain Hydraulic Control, (3) a combination of (1) and (2), and (4) the implementation of a monitoring program to verify the effectiveness of the mitigation actions. The Project Description contains facilities and their operations that can be used to implement these mitigation actions. The operation of certain facilities proposed as part of the OBMPU can be used to implement these mitigation actions.
- HYD-9: Watermaster shall review each Storage and Recovery Program application, and estimate the surface and ground water systems response (estimate the potential for water quality degradation). Watermaster shall then prepare a report that describes the response and potential MPI to the Chino Basin, and shall develop mitigation requirements to mitigate MPI caused by the proposed Storage and Recovery Program. The Storage and Recovery Program Applicant (Implementing Agency) will develop mitigation measures pursuant to these requirements established by the Watermaster and pursuant to MM HYD-10; these measures shall be incorporated into their Storage and Recovery Program application. Upon approval by Watermaster, these mitigation measures will be incorporated into the Storage and Recovery Program storage agreement. Applications that do not adequately mitigate the potential for water quality degradation, which will be determined by the Watermaster, shall not be accepted and therefore will not be developed.

- HYD-10: To mitigate potential water quality degradation caused by a proposed Storage and Recovery Program Application (as described above under HYD-9), The data gathered through Watermaster's comprehensive groundwater-quality monitoring shall be used to identify changes in the direction and velocity for each plume that can be attributed to a Storage and Recovery Program that may impact its remediation or the water quality at wells, and to develop mitigation requirements to mitigate for any impacts related to the change in direction or velocity attributed to a Storage and Recovery Program. Potential mitigation includes, but is not limited to: (1) modifying the put and take cycles to minimize changes in the plume's direction and velocity that may impact remediation, (2) constructing facility improvements to mitigate impacts on existing remediation, or (3) a combination of (1) and 2, and (4) the implementation of a monitoring program to verify the effectiveness of the mitigation actions. The operation of certain facilities proposed as part of the OBMPU can be used to implement these mitigation actions.
- HYD-11: Watermaster shall periodically review current and projected Basin conditions and shall compare this information to the projected basin conditions assumed in the evaluation of the Storage and Recovery Program application process, compare the projected Storage and Recovery Program operations to actual Storage and Recovery Program operations. The Watermaster shall then make findings regarding the efficacy of the mitigation program and requirements required herein and by the Storage and Recovery Program storage agreements. Based on Watermaster's review and subsequent findings, where applicable, Watermaster shall require changes and/or modifications in the Storage and Recover Program storage agreements that will adequately mitigate MPI and related adverse impacts. The Watermaster shall continue to determine what Programs and Projects should be implemented or should be rejected based on their potential to contribute to or cause MPI or other adverse impacts to the Basin.
- HYD-12: Prior to the commencement of construction of any OBMPU project that will disturb less than one acre (i.e., that is not subject to the California Construction Stormwater General Permit), the Implementing Agency shall require implementation of and construction contractor(s) shall select best management practices (BMPs) to achieve a reduction in pollutants from stormwater discharge to the maximum extent practicable during the construction of each OBMPU facility, and to control urban runoff after each OBMPU facility is constructed and the well (if approved for operation post well testing) or other OBMPU facility is in operation. Examples of BMP(s) that would achieve a reduction in pollutants include, but are not limited to:
 - The use of silt fences or coir rolls:
 - The use of temporary stormwater desilting or retention basins;
 - The use of water bars to reduce the velocity of stormwater runoff;
 - The use of wheel washers on construction equipment leaving the site:
 - The washing of silt from public roads at the access point to the site to prevent the tracking of silt and other pollutants from the site onto public roads;
 - The storage of excavated material shall be kept to the minimum necessary to
 efficiently perform the construction activities required. Excavated or stockpiled
 material shall not be stored in water courses or other areas subject to the flow of
 surface water: and
 - Where feasible, stockpiled material shall be covered with waterproof material during rain events to control erosion of soil from the stockpiles.

HYD-13: Prior to construction of project facilities, the Implementing Agency shall either:

(1) Prepare a No Net Discharge Report demonstrating that each facility surface runoff shall be collected and retained (for use onsite) or detained and percolated into the ground on the site such that site development results in no net increase in offsite stormwater flows. Detainment shall be achieved through Low Impact Development techniques whenever possible, and shall include techniques that remove the majority of urban storm runoff pollutants, such as petroleum products and sediment. The purpose of this measure is to remove the onsite contribution to cumulative urban storm runoff and ensure the discharge from the sites is treated to reduce contributions of urban pollutants to downstream flows and to groundwater; or, where it is not possible to eliminate stormwater flows off of a site or where otherwise appropriate, the Watermaster and/or Implementing Agency shall:

- (2) 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 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.
- HYD-14: To minimize potential ground disturbances associated with installation and maintenance of (a) proposed monitoring equipment on, or (b) groundwater treatment at existing wells, the equipment and treatment facilities shall be installed within or along existing disturbed easements or right-of-way or otherwise disturbed areas, including access roads and pipeline or existing utility easements, whenever feasible.
- HYD-15: For long-term mitigation of site disturbances at OBMPU facility locations, all areas not covered by structures shall be covered with hardscape (concrete, asphalt, gravel, etc.), native vegetation and/or man-made landscape areas (for example, grass). Revegetated or landscaped areas shall provide sufficient cover to ensure that, after a two-year period, erosion will not occur from concentrated flows (rills, gully, etc.) and sediment transport will be minimal as part of sheet flows. These measures and requirements shall be applied to disturbed areas of abandoned well sites proposed for closure.
- HYD-16: Prior to commencement of construction of any recharge or stormwater retention basin projects as either existing or new basins, a management plan will be established to the satisfaction of San Bernardino County Flood Control District (SBCFCD), Riverside County Flood Control District (RCFCD), and/or Division of Safety. This plan shall be created specifically for each individual basin to ensure the safety of surrounding property and people from undue risks associated with water-related hazards (i.e. flooding). The Operational Risk Management Plan will firmly establish a priority of flood-control functions over and above recharge or retention-related operations. Weather forecasts of upcoming storm events will be carefully monitored and in the event of a significant forecasted storm-event, water deliveries to the basins will be ceased until further notice is received from SBCFCD or RCFCD that it is safe for Additionally, each SBCFCD or RCFCD basin's specific deliveries to resume. management plan will be developed, to coordinate flood control along with surface water recharge or retention. This mitigation measure will ensure that people and property are not subject to additional risk associated with water-related hazards in the Basin, and will allow SBCFCD or RCFCDWCD to make full utilization of the basin's flood control capacity in the event of a storm.
- HYD-17: Prior to cleaning out, refurbishing or capping a well, samples will be obtained and chemically analyzed to ensure that the discharge does not contain any contaminants exceeding regulatory thresholds. If contaminants are discovered, then they shall be removed or lowered below the regulatory threshold prior to discharge to the environment. Discharge of non-stormwater into storm drains will require a permit from the Santa Ana Regional Water Quality Control Board (RWQCB).
- HYD-18: All new and expanded water treatment facilities associated with the OBMPU shall ensure that any brine generated from the water treatment process that cannot be otherwise treated on-site is disposed of in accordance with state and local regulations—such as through disposal to a brine line (Non-Reclaimable Wastewater System, Etiwanda Wastewater Line, and Inland Empire Brine Line, etc.)—to prevent brine from being discharged into the local stormwater collection system.
- HYD-19: The Implementing Agency shall verify that any given OBMPU facility (excepting those located at existing facilities [wells, water treatment plants, etc.] and excepting the installation of in-line flow meters or other facilities required to be installed in a channel, such as diversion structures) is located outside of the 100-year floodplain by utilizing the FEMA FIRM panels for the selected area prior to project implementation. If a given project is located outside of the 100-year floodplain, then no subsequent CEQA

documentation specific to floodplains are required. However, if a project is located within the 100-year floodplain either (1) a new location outside of the 100-year floodplain shall be selected, or (2) a second tier CEQA evaluation shall be completed that would address the given project's location within the 100-year floodplain.

IEUA finds that implementation of the above measures can minimize hydrology and water quality impacts to a less than significant level. The above measures can be implemented without causing additional adverse environmental impacts. The above measures will be integrated into the future development activities without additional impacts on the environment. Since the Project as analyzed above will not directly or indirectly cause significant adverse impact due to the Chino Basin management actions proposed as part of the OBMPU, or to the water quality of the Chino Basin with implementation of mitigation provided above, the OBMPU is not forecast to contribute to cumulatively considerable hydrology and water quality impacts.

11. Land Use / Planning

b. Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

<u>Finding:</u> Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 205, IS, [Appendix 8.2, FSEIR])

Because the precise location for future wells is presently unknown, OBMPU facilities may be developed across other designated land uses. Per Government Code Section 53091, building ordinances of local cities or counties do not apply to the location or construction of facilities for the projection, generation, storage, treatment, or transmission of water or wastewater. Therefore, any Project facilities that conflict with local General Plan land use designations would not be subject to a conditional use permit or general plan amendment. The Watermaster or Implementing Agency would determine the most suitable locations to place facilities, taking into consideration surrounding land uses. The Watermaster or Implementing Agency would coordinate directly with local agencies with jurisdiction to ensure compatibility with existing adjacent land uses. Future OBMPU facilities may result in land use incompatibilities with adjacent uses; therefore, mitigation is required to ensure incompatibilities are minimized.

MM **LU-1** would ensure that the facilities associated with the OBMPU are developed in appropriate areas, and conform with the surrounding land uses or are developed to minimize conflicts with adjacent land uses. This measure will minimize impacts below significance thresholds.

Through compliance with the applicable land use plans, policies, and regulations, and through implementation of mitigation, the OBMPU would have a less than significant potential to conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect.

Mitigation Measures

The IEUA has determined that the Project may adversely impact water quality during construction and operation. Mitigation to reduce this impact to below a level of potential significance is provided below.

LU-1: Following selection of sites for future OBMPU-related facilities, each site and associated facility shall be evaluated for potential incompatibility with adjacent existing or proposed land uses. Where future facility operations can create significant incompatibilities (lighting, noise, use of hazardous materials, traffic, etc.) with adjacent uses, an alternative site shall be selected, or subsequent CEQA documentation shall be prepared that identifies the specific measures that will be utilized to reduce potential incompatible activities or effects to below significance thresholds established in the general plan for the jurisdiction where the facility will be located.

IEUA finds that implementation of the above measure can reduce potential land use conflicts. The above measures can be implemented without causing additional adverse environmental impacts. The above measure will be integrated into the future development activities without additional impacts on the environment. Since the Project as analyzed above will not directly or indirectly cause significant land use conflicts with implementation of mitigation, the Project is not forecast to contribute cumulatively to land use.

12. Mineral Resources

a. Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 208-209, IS, [Appendix 8.2, FSEIR])

Facts:

Mineral deposits in the Chino Basin are important to many industries, including construction, transportation and chemical processing. The value of mineral deposits within the Chino Basin area is enhanced by their close proximity to urban areas. However, these mineral deposits are endangered by the same urbanization that enhances their value. The only significant mineral resources that occur within or near the Project area are limestone, sand and gravel, crushed rock and rip rap. The location of these resources is primarily in the Jurupa and Pedley Hills, and also near the Santa Ana River. As such, there is a nominal potential for future OBMPU facilities to be located within a site containing mineral resources, which could result in the loss of available mineral resources. As such, mitigation is required in order to minimize potential impacts thereof.

The implementation of MM **MR-1** would ensure that the proposed facilities associated with the OBMPU would not result in significant loss of mineral resources through either relocation, or compensation for development proposed to be located within an area containing significant mineral resources.

Through compliance with the above mitigation measure, the OBMPU would have a less than significant potential to result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state.

b. Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 210, IS, [Appendix 8.2, FSEIR])

Facts:

As outlined in the documentation for the OBMP, including the Peace II Draft SEIR and the original OBMP PEIR, the only significant mineral resources that occur within or near the Project area are limestone, sand and gravel, crushed rock and rip rap. The location of these resources is primarily in the Jurupa and Pedley Hills, and also near the Santa Ana River. At the Project specific level, the facilities associated with the OBMPU, such as wells, monitoring devices, and other facilities outlined in the remaining Project Categories may have a very small impact on mineral resources. Some OBMPU facilities may be large enough to interfere with locally important mineral resources recovery sites, should these facilities be located within such sites. As such, mitigation is required to minimize potential impacts below significance thresholds.

Implementation of MM **MR-1** is sufficient to reduce the potential for impacts to mineral resources to a less than significant level through either relocation, or compensation for development proposed to be located within an area containing significant mineral resources.

Therefore, the installation and operation of OBMPU facilities has little potential to have a direct adverse impact on mineral resources, unless the parcel(s) selected for such facilities are within an active mining area or are designated for recovery of mineral resources. Implementation of MM MR-1 is sufficient to reduce the potential for impacts to mineral resources to a less than significant level.

Mitigation Measures

The IEUA has determined that—as described in Section XII of the IS, [Appendix 8.2, FSEIR]—limited mineral resources occur in the northern portion of the Chino Basin. There is a nominal potential for future OBMPU facilities to be installed within a mineral resource zones. As such, mitigation has been identified to minimize mineral resource impacts.

MR-1: For each new groundwater treatment facility (regionally located or near existing well sites), Flood MAR facility, and MS4 compliance site, the Implementing Agency shall locate these facilities outside of sites designated for the extraction of or as containing significant mineral resources (such as, located within MRZ-2 zones) or otherwise identified by the local jurisdiction as containing important mineral resources (such as, designated by the local general plan as being located within a mineral extraction related land use). Where it is not feasible to locate such facilities outside of sites designated for mineral resources, a subsequent CEQA documentation shall be prepared that identifies specific measures that compensates for the loss of mineral resources.

With implementation of this mitigation measure, the Project-related mineral resource impacts can be reduced below significance thresholds, and as such, the proposed Project will not cause unavoidable significant mineral resource impacts.

13. Noise

a. Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of a project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 228-229, IS, [Appendix 8.2, FSEIR])

Facts:

Implementation of the OBMPU would involve the installation of several new facilities related to the Program Elements. These facilities include wells, monitoring devices, conveyance pipelines, pump stations, reservoirs, storage basins, upgrades to treatment plants, new treatment plants, and new groundwater treatment facilities all within the Chino Basin.

Construction of the proposed OBMPU facilities would involve a variety of noise generating activities throughout the Chino Basin including 24-hour drilling activities for varying lengths of time depending on the depth to which each well must be drilled, trenching for new pipelines, etc. Because not all locations of the projects are determined at this time, the construction noise standards and/or regulations that would apply to each of the projects would depend on the agency with jurisdiction over each Project location. Noise during construction, depending upon the final location of facilities, may exceed local construction noise standards or violate local construction noise regulations. As a result, mitigation to address noise generated by construction activities is required.

Given the urbanized environment of much of the Chino Basin area, many of the aboveground facilities could operate in proximity or adjacent to existing noise-sensitive land uses, such as residential uses, schools, hospitals, etc. The operation of these facilities could potentially expose the adjacent sensitive receptors to noise levels that exceed local established exterior noise standards. Noise-generating equipment such as new above ground pump stations and other ancillary facilities must be designed to meet local nighttime ambient noise standards, such that local sensitive receptors, would not experience a substantial increase in noise, this will be enforced through the implementation of required mitigation measures.

MM NOI-1 would require the following: all construction activities to be conducted in accordance with the applicable noise regulations and standards, the implementation of noise reduction devices and techniques during construction activities, limits to construction hours, and advance notification of the surrounding noise-sensitive receptors to a construction site about upcoming construction activities and their hours of operation. This measure is anticipated to reduce the construction-related noise levels at nearby receptors to the maximum extent feasible, which is anticipated to be sufficient for the types of projects proposed as part of the OBMPU. MM NOI-2 will ensure that operational noise meets the applicable City or County noise level requirement, which will ensure that noise generating operational features at the proposed OBMPU facilities attenuate noise to a less than significant level. MM NOI-3 can ensure that construction activities outside of standard working hours secure a noise waiver, which will minimize conflicts with the applicable noise standards. MM NOI-4 will enforce noise

minimizing techniques that will ensure that the proposed well developments will not result in excessive operation or construction related noise.

Implementation of mitigation measures below is sufficient to ensure that the OBMPU would have a less than significant potential to result in a substantial temporary or permanent increase in ambient noise levels in the vicinity of a Project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies. No significant adverse impact is forecast to occur.

b. Would the project result in generation of excessive groundborne vibration or groundborne noise levels?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 232-233, IS, [Appendix 8.2, FSEIR])

Facts:

Construction of the OBMPU projects would include activities such as grading, excavation, and drilling, which would have the potential to generate low levels of groundborne vibration. Persons residing and working in an area located in proximity to a construction site could be exposed to excessive groundborne vibration or groundborne noise levels related to construction activities. Given the urbanized environment of much of the Chino Basin area, construction of OBMPU facilities may have some potential to create vibration at the nearest sensitive receptor to a given OBMPU site. The majority of OBMPU construction activities are anticipated to attenuate at the nearest sensitive receptor, however mitigation is provided below to minimize vibration to the greatest extent feasible, particularly given that the locations for many OBMPU facilities are presently unknown.

Implementation of MM **NOI-5** would discourage the use of construction equipment that generates high levels of vibration within specific distances from existing land uses that are located near active construction areas and would ensure vibration field testing and subsequent minimization near occupied residences. This will reduce the construction-related vibration levels experienced by these existing off-site land uses to a level of less than significant. Additionally, implementation of MM **NOI-6** would serve to ensure the safety of existing historic buildings by requiring a certified structural engineer to analyze and provide evidence that no structural damage would result at these buildings due to the Project's construction activities.

Operational vibration is anticipated to be less than significant given that there are no large pieces of heavy machinery that would be required to operate OBMPU facilities.

Ultimately, although construction related vibration could be experienced for some specific locations, impacts would be limited in scope and scale and substantially avoided or minimized with implementation of the MM NOI-5 and NOI-6; therefore, implementation of the OBMPU would have a less than significant potential to generate excessive groundborne vibration or noise through implementation of mitigation.

c. Would the project result in, for a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 234-235, IS, [Appendix 8.2, FSEIR])

Facts:

The following three airports are located within Chino Basin's boundaries: Chino Airport, LA/Ontario International Airport, and Cable Airport in Upland. There are no private airstrips located within the Chino Basin. Of the known locations in which OBMPU facilities will be located, there are a few that will be installed within a two-mile radius of the nearest airport. Additionally, given that the locations for many of the OBMPU facilities are presently unknown, there is a potential that future OBMPU facilities could be developed within the vicinity of an airport and within an airport land use plan. During both construction and operations of OBMPU facilities located within an airport land use plan or within two miles of an airport, there is a potential for employees working at, visiting or maintaining the site to be exposed to excessive noise from nearby airports. The facilities outside of airport land use plans would have no potential to be exposed to excessive airport-related noise. In order to protect employees working within facilities near airports, implementation of mitigation is required to minimize impacts thereof.

MM NOI-7 would ensure that projects located in close proximity to the airport would minimize exposure of persons working at or visiting a site to excessive noise levels.

Given that noise attenuates at a rate between 6 dBA for hard sites and 7.5 dBA for soft sites for each doubling of distance from the reference measurement, it is anticipated that excessive noise generated by nearby airports will not result in significant impacts to persons working in the vicinity of the proposed OBMPU projects with the implementation of mitigation addressed above.

Mitigation Measures

The IEUA has determined that the Project may cause significant short- and long- term noise impacts, as well as short-term vibration impacts, and may cause significant impacts to workers at future OBMPU sites near airports. The Chino Basin contains extensive areas with noise sensitive land uses. Due to these substantial noise constraints and the installation of future noise-producing OBMPU facilities in locations where such noise sensitive uses may exist, a potential for significant noise impacts from implementation of the OBMPU. However, several mitigation measures were identified to minimize noise impacts as outlined below:

NOI-1: The Implementing Agency shall implement the following measures during construction:

- Include design measures to reduce the construction noise levels if necessary to comply with local noise ordinances, or seek a variance from local noise ordinance if otherwise not feasible to comply. 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.
- Construction activities shall occur within the hours considered to be acceptable for construction by the applicable jurisdiction within which an individual project is constructed, except for activities, such as well drilling which are continuous, and for emergencies. Where no such restrictions are in place that limit hours of construction, construction shall be limited to the hours of 7 AM and 6 PM on weekdays, 8 AM and 5 PM on Saturdays, and at no time shall construction activities occur on Sundays or holidays, unless a declared emergency exists.
- NOI-2: The Implementing Agency shall require that all OBMPU-related aboveground facilities that include stationary noise generating equipment (such as emergency generators, blowers, pumps, motors, etc.) to 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.
- NOI-3: Prior to authorizing construction activities during non-standard working hours or hours that are not exempt from compliance with applicable City or County noise ordinances (e.g., 24-hour well drilling), the Implementing Agency will secure a noise waiver from the appropriate jurisdiction.
- NOI-4: Injection and extraction wells shall be located as far from sensitive receptors as feasible. If new wells are to be constructed in the immediate vicinity of sensitive receptors, construction specification requirements shall include installation and maintenance of a temporary noise barrier (e.g. engineered sound wall or noise blanket) during 24-hour construction activities, if necessary to comply with local noise ordinances. Specifications shall include use of appropriate materials that shall be installed to a height that intercepts the line of sight between the construction site and sensitive receptors in order to achieve maximum attenuation in an attempt to decrease construction area noise to as close as ambient noise levels as possible. Furthermore, where new wells are located adjacent to sensitive receptors, wells and any other associated noise generating facilities (i.e. associated treatment facilities, pumps, generators, etc.) shall be enclosed within a structure to attenuate noise to comply with the applicable noise threshold at the nearest sensitive receptor.
- NOI-5: The Implementing Agency shall require the construction contractor(s) to implement the following measure:
 - 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 to below the local

jurisdiction's acceptable level of vibration, or where no level has been established, 72 vibration decibels (VdB), within 45 feet of existing residential structures and 35 feet of institutional structures (e.g., schools) during construction of the various OBMPU projects. Use of small rubber-tired bulldozers shall be enforced within these areas during grading operations to reduce vibration effects.

- The construction contractor for any individual OBMPU project shall provide signs along the roadway identifying a phone number for adjacent property owners to contact with any complaint. During future construction activities for any individual OBMPU project with heavy equipment within 300 feet of occupied residences, vibration field tests shall be conducted at the property line near the nearest occupied residences. If vibrations exceed 72 VdB, the construction activities shall be revised to reduce vibration below this threshold. These measures may include, but are not limited to the following: use different construction methods, slow down construction activity, or other mitigating measures to reduce vibration at the property from where the complaint was received.
- NOI-6: Where an OBMPU project would be constructed adjacent to an existing or potential historic building, the Implementing Agency shall require, through contract specifications, a certified structural engineer to be retained to submit a report documenting evidence that the operation of vibration-generating equipment associated with the construction activities would not result in any structural damage to the adjacent historic building prior to construction commences. Contract specifications shall be included in the construction documents for the applicable OBMPU project development.
- NOI-7: Where an OBMPU project would be constructed within 2 miles of a public airport, any new indoor facilities should be designed as documented by a professional noise technical study, to minimize noise to a level that is within OSHA's permissible exposure limit (PEL). Employees working outside at an OBMPU project, either during construction or operation, shall be provided with ear protection to minimize noise to a level that is below OSHA's PEL to be utilized during periods of excessive noise caused by any aircraft overflights.

The IEUA finds that implementation of the above measures can reduce potential construction noise impacts to a less than significant impact level. The above measures can be implemented without causing additional adverse environmental impacts. The above measures will be integrated into the future development activities without additional impacts on the environment. Since the Project as analyzed above will not directly or indirectly cause significant construction noise impacts with implementation of mitigation, the Project is not forecast to contribute to cumulatively considerable noise during construction activities.

14. Population and Housing

b. Would the project displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?

<u>Finding:</u> Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 243, IS, [Appendix 8.2, FSEIR])

Facts:

No housing is proposed to be displaced or eliminated by the proposed OBMPU facilities varying footprints. The goal of the Project and the effect of the physical changes to the environment is to install infrastructure to enhance safe yield and water quality within the Chino Basin. However, given that the locations of the many of the OBMPU facilities are presently unknown, it is remotely possible that the development of specific facilities could adversely impact existing housing, though many of the OBMPU facilities will be located within existing sites utilized for water

and wastewater infrastructure. Implementation of mitigation is required to ensure that the OBMPU's potential to displace housing or persons is fully mitigated.

MM **POP-1** would ensure that the facilities associated with the OBMPU that must be located on parcels containing housing would be minimized through the provision of short- and long-term housing of comparable quality, thereby minimizing impacts below significance thresholds.

Ultimately, through the implementation of mitigation, the OBMPU is not forecast to cause a significant displacement of existing housing or persons.

Mitigation Measures

The IEUA has determined that the Project may displace a persons or housing, which could result in a significant impact. Mitigation measure to reduce this impact to below a level of potential significance is provided below.

POP-1: If future OBMPU facilities must be located on parcels occupied by existing housing and displaces that housing as a result, the Implementing Agency will assist with a relocation plan in conformance with Section 7260 et seq. of the California Government Code ("California Relocation Assistance Law" or the "Act") to ensure that short- and long-term housing of comparable quality and value are made available to the home owner(s) prior to initiating construction of the facility.

The IEUA finds that implementation of the above measure can reduce potential for a substantial number of people to be displaced to a less than significant impact level. The above measure can be implemented without causing additional adverse environmental impacts. The above measure will be integrated into the future development activities without additional impacts on the environment. Since the Project as analyzed above will not directly or indirectly cause substantial displacement of people or housing with implementation of mitigation, the OBMPU is not forecast to contribute to cumulatively considerable noise during construction or operational activities.

15. Public Services

b. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services: Police protection?

<u>Finding:</u> Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 259-260, IS, [Appendix 8.2, FSEIR])

Similar to the discussion under Fire Protection above, the development of OBMPU facilities will not cause a significant demand for police protection services. It is not forecast that the OBMPU would change land uses or otherwise create activities that can increase demand for additional police protection services beyond that which is anticipated in each jurisdiction's General Plans. Operational activities associated with the proposed OBMPU could require police department service in the unlikely event of an emergency or trespass at a given site. However, it is anticipated that all sites containing facilities associated with the proposed OBMPU

would be fenced, which would minimize the future need for police protection from trespass. The Chino Basin area is currently served by police departments and agencies under authority of the various jurisdictions that comprise the Chino Basin as discussed under Environmental Setting above. Overall levels of police service will be increased based upon the future population growth and demands of the local agencies within the Chino Basin. Though a significant demand for police protection services is not anticipated, contingency mitigation is proposed to address trespass issues.

Implementation of MM **PS-1** above would minimize the potential for trespass that could exacerbate police protection services. With implementation of this mitigation measure, the Project-related police protection impacts can be reduced to a less than significant impact level.

d. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services: Parks?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 263, IS, [Appendix 8.2, FSEIR])

Facts:

There is a potential that a proposed OBMPU facility could be located within existing parks or facilities designated for such uses. Construction and staging areas may result in the temporary closure of parks or portions of parks. However, several parks in the Chino Basin area would be available for use. This increased use of other parks would be temporary, during construction only. Once construction is completed, parks would return to serve their original purpose, with only slightly less parkland area available for use. In addition to development OBMPU facilities within existing parks, there is a potential for wells or other OBMPU facilities to be developed within a vacant site designated for park use, which would effectively minimize available designated parkland within the Chino Basin. As such, mitigation is provided below to ensure that, for OBMPU facilities located within vacant land designated for park uses, or OBMPU facilities larger than one acre in size within existing park facilities, additional parkland is developed to supplement the loss of this parkland or recreation facility.

Once in operation, the proposed OBMPU facilities would not directly increase the population as discussed under Police Protection, Fire Protection, and Schools, though there is a potential for this development to result in nominal (30 new employees over 30 years) indirect population growth. Overall demand for parks and recreation facilities will be increased based on the future population-based demands of the local agencies within the Chino Basin. The OBMPU is not anticipated to create activities that can substantially increase demand for additional park and recreation facilities beyond that which is anticipated in the jurisdiction's General Plans. Because there are adopted standards and development fees are collected for new development that are directed towards parks and recreation facilities, no other potential for adverse impacts to parks and recreation facilities are identified beyond those addressed through the mitigation provided below.

Implementation of MM **PS-2** above would minimize the potential for loss of park or recreational facilities as a result of OBMPU projects located within facilities designated for such uses. With implementation of this mitigation measure, the Project-related parks and recreation impacts can be reduced to a less than significant impact level.

Mitigation Measures

The IEUA has determined that the Project has little potential to impact public facilities. However, the following mitigation measure to reduce or remove any potential impact to police services, and to parks and recreation facilities to below a level of potential significance is provided below.

- PS-1: OBMPU facilities shall be fenced or otherwise have access controlled to prevent illegal trespass to attractive nuisances, such as construction sites or recharge sites.
- PS-2: OBMPU facilities proposed to be located within vacant parkland or OBMPU facilities proposed to be located within existing park or recreation facilities that would require more than one acre of disturbance shall be either (1) Relocated to avoid significant impacts to parkland or (2) Shall provide supplemental parkland within the corresponding jurisdiction equal or greater to the amount of parkland or recreation facilities lost as a result of implementation of the OBMPU facility.

The IEUA finds that implementation of these mitigation measures, the Project-related police protection and park/recreation impacts can be reduced to a less than significant impact level. The above measures can be implemented without causing additional adverse environmental impacts. The above measures will be integrated into the future development activities without additional impacts on the environment. Since the Project as analyzed above will not directly or indirectly cause a significant adverse impact to any public services with the implementation of mitigation, the Project is not forecast to contribute to cumulatively considerable public services.

16. Recreation

a. Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

<u>Finding:</u> Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 266, IS, [Appendix 8.2, FSEIR])

There is a potential for wells or other OBMPU facilities to be developed within a vacant site designated for park/recreation use, which would effectively minimize available designated recreation- and park-land within the Chino Basin. As such, mitigation is provided below to ensure that, for OBMPU facilities located within vacant land designated for park/recreation uses, or OBMPU facilities larger than one acre in size within existing park/recreation facilities, additional parkland/recreation land is developed to supplement the loss of this parkland or recreation facility.

Once in operation, the proposed OBMPU facilities would not directly increase the population, though there is a potential for this development to result in nominal indirect population growth. Overall demand for recreation facilities will be increased based on the future population-based demands of the local agencies within the Chino Basin. The OBMPU is not anticipated to create activities that can increase

demand for additional recreation facilities beyond that which is anticipated in the jurisdiction's General Plans, and because there are adopted standards and development fees are collected for new development that are directed towards recreation facilities, no other potential for adverse impacts to recreation facilities are identified beyond those addressed through the mitigation provided below.

Implementation of Mitigation Measure **PS-2** above would minimize the potential for loss of park or recreational facilities as a result of OBMPU projects located within facilities designated for such uses. As such, impacts are less than significant. With implementation of this mitigation measure, the Project-related recreation impacts can be reduced to a less than significant impact level.

b. Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 268, IS, [Appendix 8.2, FSEIR])

Facts:

The development of OBMPU facilities will not involve the construction or expansion of recreational facilities. There is a potential that a proposed well or other OBMPU-related facility could be located within parks or facilities designated for recreational use. Depending on the area required for the development of OBMPU facilities, an individual Project could result in the removal of all or a portion of a park or recreational facility. The removal of a facility could require the construction of new park or recreational facilities elsewhere to accommodate for the loss of the existing recreational facility. As such, mitigation is required to ensure that, should loss of recreation or park facilities occur, replacement occurs resulting in impacts to recreational facilities are minimized.

Implementation of MM **PS-2** above would minimize the potential for loss of park or recreational facilities as a result of OBMPU projects located within facilities designated for such uses. As such, impacts are less than significant. Implementation of MM **REC-1** would ensure that, should construction of recreation or park facilities be required as a part of the OBMPU, a subsequent CEQA determination will be prepared to ensure that impacts are appropriately assessed and mitigated. As such, impacts are less than significant. With implementation of this mitigation measure, the Project-related recreation impacts can be reduced to a less than significant impact level.

Mitigation Measures

The IEUA has determined that the Project has a potential to impact recreation facilities through the increased use of existing neighborhood and regional parks or other recreational facilities and may require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment. However, several mitigation measures were identified to minimize impacts to police protection and recreation/parks including those that would: minimize the potential for trespass that could exacerbate demand for police protection services; and, minimize the potential for loss of park or recreational facilities as a result of OBMPU projects through relocation or provision of supplemental parkland or recreation facilities, as demonstrated through the following mitigation measures:

MM **PS-2** under Public Services, above, is required to minimize impacts under recreation.

REC-1: The Implementing Agency shall prepare subsequent CEQA documentation for any Park or Recreation facilities required to be developed as part of implementation of mitigation measure PS-2—i.e., in the event an OBMPU Facility would be result in loss of parkland or recreation facilities.

The IEUA finds that with implementation of these mitigation measures, the Project-related recreation impacts can be reduced to a less than significant impact level. The above measures can be implemented without causing additional adverse environmental impacts, or subsequent CEQA evaluation. The above measures will be integrated into the future development activities without additional impacts on the environment. Since the Project as analyzed above will not directly or indirectly cause substantial adverse recreation impacts with implementation of mitigation, the Project is not forecast to contribute to cumulatively considerable recreation impacts.

17. Transportation

a. Would the project conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?

<u>Finding:</u> Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified

in the FSEIR. (pg. 278-279, IS, [Appendix 8.2, FSEIR])

The implementation of improvements proposed in Project Categories 1 through 4 of the OBMPU could occur concurrently. Based on a conservative assumption that the maximum trips by each Project category occur concurrently, there would be a maximum of several hundred two-way vehicle trips per day by construction workers and a maximum of several hundred two-way truck trips per day. The construction workers are expected to arrive at and depart from the work sites during a one-hour period at the start and end of the work day, respectively, while truck trips would be spread over the course of the work day. Both the worker trips and truck trips would be spread over different roads that provide access to the locations of the treatment facilities. Installation of certain facilities, such as pipelines, would occur within roadways, two-lane roads would likely require active traffic control (flaggers) to allow alternate one-way traffic flow on the available road width, and could possibly require full road closure (with detour routing around the construction work zone).

Once construction is completed, OBMPU facilities will either continue modified operations, or require a new employee base. Overall changes in traffic due to these OBMPU facilities would not make any major changes in traffic during operations, estimated to be 30 or so plus trips per day in the future. This potential operational impact is considered a less than significant impact to traffic flow or the circulation system without mitigation.

MM **TRAN-1** would be required to reduce potential impacts to traffic and transportation conditions. Implementation of this measure during construction, in conjunction with the temporary character of the construction impacts, is considered sufficient to ensure adequate flow of traffic in a safe manner for OBMPU facility installation. With implementation of this mitigation measure, the OBMPU would have a less than significant potential to conflict with a program, plan, ordinance or

policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities.

c. Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous inter- sections) or incompatible uses (e.g., farm equipment)?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 280-281, IS, [Appendix 8.2, FSEIR])

Facts:

OBMPU construction would not alter the physical configuration of the existing roadway network serving the area, and would not introduce unsafe design features. Also, although construction of the OBMPU facilities could temporarily increase the type of vehicles (i.e., trucks) that could be incompatible with predominantly automobile vehicles on local roadways that change to the mix of vehicles would stop when Project construction is completed. The potential conflicts between construction trucks and automobiles on local roadway are considered a less than significant impact through implementation of mitigation.

The implementation of MM **TRAN-1** would reduce the Project's contribution to potential construction traffic hazard impacts to less than significant. The above measure would reduce traffic hazards by requiring all construction activities to be conducted in accordance with an approved construction traffic control plan. Thus, through the environmental review and development permit process, subsequent Project-specific analysis would be needed to determine specific required elements of the traffic control plans. With implementation of this mitigation measure, the OBMPU would have a less than significant potential to substantially increase hazards due to a geometric design feature or incompatible uses.

d. Would the project result in inadequate emergency access?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 282-283, IS, [Appendix 8.2, FSEIR])

Facts:

The improvements proposed as part of the OBMPU would have less than significant impacts on emergency vehicle access from construction vehicles travelling on the roadways. Construction trucks generated by installation of OBMPU facilities would interact with other vehicles on Project area roadways, including emergency vehicles, but would not alter the physical configuration of the existing roadway network serving the area. While individual emergency vehicles could be slowed if travelling behind a slow-moving truck, per vehicle code requirements, vehicles must yield to emergency vehicles using a siren and red lights. As such, OBMPU facilities located outside of road rights-of-way (ROB) would have a less than significant impact to emergency access within the Chino Basin.

However, the implementation of OBMPU facilities that could require the closure of lanes during construction activities. Lane closures could result in potential access impacts on emergency vehicles. These potential impacts are considered a less than significant impact through implementation of mitigation.

The implementation of MM **TRAN-1** would reduce the Project's potential construction impacts and cumulative contribution to potential construction impacts on emergency access to a less than significant impact. The above measure would reduce impacts on emergency access by requiring all construction activities to be conducted in accordance with an approved construction traffic control plan and require coordination of timing, location, and duration of construction activities with emergency services such as police and fire. With implementation of this mitigation measure, the OBMPU would have a less than significant potential to result in inadequate emergency access.

Mitigation Measures

The IEUA has determined that the Project may adversely impact the local circulation system during construction. Mitigation measures to reduce this impact to below a level of potential significance are provided below.

- TRAN-1: For projects that may affect traffic flow along existing roadways, the Implementing Agency shall require that contractors prepare a construction traffic control plan prior to issuance of construction permits. Elements of the plan should include, but are not necessarily limited to, the following:
 - 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

The IEUA finds that implementation of the above measures can reduce potential adverse impacts to circulation and emergency access during construction and operation of the proposed roadway extension to a less than significant level. The above measure can be implemented without causing additional adverse environmental impacts. The above measure will be integrated into the future development activities without additional impacts on the environment. Since the Project as analyzed above will not directly or indirectly cause significant circulation system impacts or significant conflicts with emergency access or evacuations with implementation of mitigation, the Project is not forecast to contribute to cumulatively considerable transportation impacts.

18. Tribal Cultural Resources

- a. Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American Tribe, and that is listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or
- b. Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American Tribe, and that is a resourced determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?

The facts and findings below apply both to impacts (a) and (b).

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 4-246 to 4-248, FSEIR)

Facts:

The San Manuel Band of Mission Indians, Gabrieleño Band of Mission Indians -Kizh Nation, and Morongo Band of Mission Indians requested continued participation with this Project's CEQA process and future projects implemented under the OBMPU. Concerns expressed include the following: accidental exposure of subsurface cultural resources and proper management of such resources; concerns over exposure of human remains and proper management; and presence of Native American monitors during future ground disturbing activities. Through incorporation of mitigation measures, impacts to Tribal Cultural Resources are considered less that significant. The mitigation measures provide a hierarchy from which to approach future OBMPU Projects, involving (1, MM TCR-1) notification to the three tribes at Project sites that have been totally disturbed; (2, MM TCR-2) at undisturbed Project sites, AB 52 consultation will be initiated and a records search shall be performed as part of a site specific Phase I evaluation, and the site shall be surveyed; and, (3, MM TCR-3) development and implementation of a Cultural Resources Monitoring and Treatment Plan which may require monitoring and treatment of any resources located within a given site. Thus, with implementation of mitigation to protect tribal cultural resources, the Project would not cause significant unavoidable adverse impacts to tribal cultural resources.

Mitigation Measures

IEUA has determined that the Project could have a potentially significant impact on unknown subsurface tribal cultural resources. Mitigation measures to reduce the impact to below a level of potential significance are provided below.

TCR-1 Where a future discretionary project requiring a Negative Declaration or follow- on EIR is proposed within an existing facility that has been totally disturbed due to it undergoing past engineered site preparation (such as a well site, water treatment facility, or wastewater treatment plant site), the agency implementing the OBMPU project will notify the three Tribes (Gabrieleño, Morongo, and San Manuel) under AB 52 but will point out that the project falls under the OBMPU evaluation and that the site is

fully developed. No further cultural resources or TCR investigation will be conducted unless a Tribe identifies specific TCR resources/values at such site(s).

- TCR-2 Where a future discretionary project requiring a Negative Declaration or follow- on EIR is proposed at an undisturbed site, the agency implementing the OBMPU project will initiate AB 52 consultation and a records search at the appropriate California Historical Resources Information System (CHRIS) center with at least a 0.5-mile search radius. The Native American Heritage Commission (NAHC) shall also be contacted to identify tribal representatives tocontactaspartofaPhase1culturalresourcesinvestigation. Finally, a site- specific survey will be conducted by a qualified professional archaeologist. During the survey, the archaeologist shall engage the designated tribal representative(s) based on responses from the NAHC consultation among the three Tribes.
- TCR-3 If the AB 52 consultation results in a request to consult from one or more of the three Tribes, and the consultation results in a request for monitoring from one or more of the Tribes, the agency implementing the OBMPU project shall meet with the Tribe or Tribes and develop a "Cultural Resources Monitoring and Treatment Plan" (Plan) for the specific project. This Plan shall follow the general outline of one of the two Plans provided in Appendix 8 of this document. If more than one Tribe requests field monitoring participation, the agency shall ask the requesting Tribes to determine which one will provide the monitor(s), as only a single Tribe's monitor(s) shall be funded in the monitoring effort. If the Tribes cannot identify a single tribal monitor, the agency shall select a single tribal monitor to monitor a project after reviewing qualifications of the recommended monitors in light of the resources identified by the tribes. Monitoring activities and follow-on management of any discovered tribal cultural resources shall conducted be in accordance with the Cultural Resources Monitoring and Treatment Plan agreed upon for the specific project and specific project site.

IEUA finds that implementation of the above measures can reduce potential impacts to unknown subsurface tribal cultural resources to a less than significant impact level. The above measures can be implemented without causing additional adverse environmental impacts. The above measures will be integrated into the future development activities without additional impacts on the environment. Since the Project as analyzed above will not directly or indirectly cause significant adverse tribal cultural resource impact with implementation of mitigation, the Project is not forecast to contribute to cumulatively considerable tribal cultural resource impacts required to support the Project.

- 19. Utilities and Service Systems: Impacts under Utilities and Service Systems, checklist question "a" are significant and cannot be mitigated below significance level. The discussion of this specific issue under Utilities and Service Systems is located below in Section C.3 of this document. The checklist questions under Utilities and Service Systems that can be mitigated to a level of less than significant are as follows:
- b) Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?
- <u>Finding:</u> Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 4-261 to 4-262, FSEIR)
- The purpose of the proposed OBMPU is to address the drivers and trends that are shaping water management, specifically within Chino Basin. These drivers and trends have implications for the Parties who extract water from the Chino Basin and rely upon Safe Yield of the Chino Basin to serve the Parties' individual service areas. The purpose of implementing the proposed OBMPU facilities over a 30-

vear horizon is to enhance management of the Chino Basin through enhancing basin water supply and to improve water supply reliability, protect and enhance water quality, encourage sustainable management of the Basin to avoid MPI, and identify and use efficient and equitable methods to fund OBMPU implementation. Given that the proposed OBMPU is a groundwater basin management plan, the Project in and of itself is designed to ensure that the Parties that utilize Chino Basin groundwater have sufficient supply available to serve the demand of each individual service area. It is the responsibility of each of the Parties to utilize the data contained herein, and within the technical studies provided as Appendices to this OBMPU FSEIR, and the 2020 Optimum Basin Management Program Update Report to Project future demand within their individual service areas and determine how to meet demand given the circumstances within the Basin. However, as described within Subchapter 4.7, Hydrology and Water Quality, implementation of the OBMPU requires mitigation to ensure adequate management of the Basin as the individual OBMPU facilities are developed. This includes mitigation that addresses pumping sustainability, hydraulic control, and reduction in net recharge, which could, without mitigation, result in variability in available supply to Chino Basin parties.

Watermaster will periodically review current and projected basin conditions, compare this information to the projected basin conditions assumed in the evaluation of the Storage and Recovery Program application process, compare the projected Storage and Recovery Program operations to actual Storage and Recovery Program operations. Watermaster will then make findings regarding the efficacy of the mitigation program and requirements required herein and by the Storage and Recovery Program storage agreements. Based on Watermaster's review and subsequent findings, where applicable, Watermaster will then require changes and/or modifications in the Storage and Recover Program storage agreements that would adequately mitigate MPI and related adverse impacts. The mitigation provided under Subchapter 4.7, Hydrology and Water Quality, issue (b), would enable Watermaster to maintain sustainable management of the Basin, and thereby maintain sufficient water supply allocated to the Parties for the foreseeable future.

Based on this information, implementation of the OBMPU as a comprehensive program would have a less than significant potential to adversely impact sufficient water supplies available to serve the Project and reasonably foreseeable future development during normal, dry and multiple dry years, once mitigation is implemented.

Individual OBMPU Projects may demand water during construction; however, given the short period of construction, water demand during construction would not be substantial and would not require new or expanded water supply resources. Furthermore, the development of, for instance, new wells would not require expanded supply to operate beyond those created by the implementation of OBMPU Facilities as discussed above. Additionally, facilities such as storage basins would aid in the recharge and storage of the groundwater basin and would not require additional water for operation. Storage of the groundwater would enable sustainable management of the basin by preventing overdraft and protecting water quality of the basin, and also ensuring that Basin Water and storage capacity are put to maximum beneficial use while causing no MPI.

Ultimately, MMs HYD-1, HYD-2, HYD-5, HYD-6, HYD-7, HYD-8, HYD-9, HYD-10, and HYD-11 would create a hierarchy of checks and balances as part of the sustainable management of the Basin through continuous monitoring of known issues within the Basin and a comprehensive mitigative response to ensure that these issues do not result in a significant impact. No further mitigation is required to ensure that sufficient water supplies are available to serve the Parties within the Chino Basin.

c) Would the project result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 294, IS, [Appendix 8.2, FSEIR])

Facts:

As stated under the facts presented under issue "b" above, construction workers would temporarily require use of portable sanitary units during construction of the proposed wells and potentially during the installation of the proposed monitoring devices. Wastewater generated during construction of the proposed OBMPU facilities would be minimal, consisting of portable toilet waste generated by construction workers and therefore would not substantially impact wastewater treatment capacity. All conveyance systems, groundwater recharge, storage basins, wells, monitoring devices, and ancillary facilities would not generate wastewater during their operation. Therefore, impacts related to available wastewater treatment capacity for these facilities would be less than significant.

Those OBMPU projects that would include the development of new groundwater treatment facilities, upgrades to the Chino Desalters, and improvements to the Agua de Lejos Treatment Plant may generate new or expanded sources of brine waste generated by water treatment that would require treatment by the applicable wastewater treatment provider. Given that the amount of water proposed to be treated by these existing and proposed water treatment facilities is unknown, it is not possible to determine whether these facilities would require OCSD (or another agency responsible for managing brine waste) to expand the capacity of its treatment plant to accommodate the additional brine waste generated by these projects. As such, MM UTIL-1, which requires subsequent CEQA documentation to be prepared for certain projects is required to minimize potential impacts below significance thresholds. Therefore, with the implementation of mitigation, the potential for impacts related to capacity of area wastewater treatment plants would be below significance thresholds.

d) Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 296 IS, [Appendix 8.2, FSEIR])

Facts:

The development of OBMPU facilities is not anticipated to result in generation of solid waste in excess of the capacities of local infrastructure. However, given that development of several OBMPU facilities may require substantial earthmoving

activities that may result in substantial soil export, as such, mitigation is required to ensure that, in the event substantial soil export is required, soils of a usable quality are recycled for reuse.

Implementation of MM **UTIL-3** will ensure that construction and demolition materials that are salvageable are recycled, and thereby diverted from the local landfill, which will minimize the potential for OBMPU projects to generate waste in excess of local landfill capacities. Similarly, MM **UTIL-4** will ensure that soils that would generally be exported from a given construction site are salvaged where possible for ultimate reuse, thereby diverting this waste stream from the local landfill. This too will minimize the potential for OBMPU projects to generate waste in excess of local landfill capacities.

Ultimately, with the implementation of these mitigation measures, the OBMPU would have a less than significant potential to generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals.

e) Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

Finding:

Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the FSEIR. (pg. 297, IS, [Appendix 8.2, FSEIR])

Facts:

Implementation of proposed OBMPU facilities would comply with all City and County construction and demolition requirements during construction of the proposed facilities as described above in the regulatory setting. All excavated soil would be hauled offsite by truck to an appropriately permitted solid waste or re-use facility. The amount of soil to be disposed per day would not exceed the maximum permitted throughput for each waste type (i.e., non-hazardous and hazardous). Any hazardous materials collected on a given OBMPU Project site during either construction or operation will be transported and disposed of by a permitted and licensed hazardous materials service provider. OBMPU projects would be required, through the implementation of MM UTIL-2 to recycle construction and demolition materials beyond the mandated 50 percent diversion required by AB 939. Furthermore, MM UTIL-3 would require further diversion through the recycling of soils where possible for future OBMPU projects. The Projects would comply with all federal, State, and local statues related to solid waste disposal. Therefore, the proposed OBMPU would result in less than significant impacts related to construction waste generation.

The Cities and County in which a given Project would be located are required to comply with the California Integrated Waste Management Act of 1989, requiring diversion of solid waste from landfills through reuse and recycling. Facilities proposed as part of the OBMPU would be required to recycle as part of the projects' operational activities. As such, the operation of proposed OBMPU facilities would comply with federal, state, and local management and reduction statutes and regulations related to solid waste. Construction and operational impacts are therefore less than significant.

Mitigation Measures

IEUA has determined that the Project could have a potentially significant impact on utilities and service systems checklist items "b," "c," "d," and "e." Mitigation measures to reduce the impact to below a level of potential significance are provided below.

- UTIL-1 The Implementing Agency shall prepare subsequent CEQA documentation for the Agua de Lejos Treatment Plant and upgrades to the Chino Desalters, new groundwater treatment facilities at or near well sites and at regionally located sites once specific improvements or facility locations have been identified, and design of such improvements or new facilities has been drafted.
- UTIL-2 Implementation of a Drainage Plan to Reduce Downstream Flows. Prior to issuance of permits for construction of project facilities, the Implementing Agency shall prepare a drainage plan that includes design features to reduce stormwater peak concentration flows exiting the above ground facility sites (consistent with MS4 requirements) 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.
- UTIL-3 The contract with demolition and construction contractors for a given OBMPU Project shall include the requirement that all materials that can feasibly be recycled shall be salvaged and recycled. This includes but is not limited to wood, metals, concrete, road base and asphalt. The contractors for a given OBMPU Project shall submit a recycling plan to the Watermaster or Implementing Agency for review and approval prior to issuance of permits for the construction of demolition/construction activities.
- UTIL-4 The contract with demolition and construction contractors for a given OBMPU Project shall include the requirement that all soils that are planned to be exported from the site that can feasibly be recycled shall be recycled for re-use; alternatively, soils shall be reused on site to balance soil import/export.

The following measures are also required to minimize impacts under utilities and service systems, though these measures (HYD-1, HYD-2, HYD-5, HYD-6, HYD-7, HYD-8, HYD-9, HYD-10, and HYD-11) are provided under their respective section above.

IEUA finds that implementation of the above measures can reduce potential impacts to water supply, provision of wastewater management, and solid waste management under utilities and service systems. The above measures can be implemented without causing additional adverse environmental impacts. The above measures will be integrated into the future development activities without additional impacts on the environment. Since the Project as analyzed above will not directly or indirectly cause significant adverse water supply, provision of wastewater, or solid waste impacts under utilities and service systems with implementation of mitigation, the Project is not forecast to contribute to cumulatively considerable water supply, provision of wastewater, or solid waste impacts related to implementation of the OBMPU.

Based upon the findings presented in the FSEIR, the above described environmental issues have been determined by the IEUA to be: (1) adequately addressed in the FSEIR; and (2) impacted to a degree deemed by the IEUA to be less than significant with implementation of the mitigation measures identified above (where required) and summarized in the Mitigation Monitoring and Reporting Program. No substantial evidence was subsequently presented to or identified by the IEUA which further modified or otherwise altered IEUA's less-than-significant impact determinations for each of these environmental issues. Where mitigation has been required, these changes or alterations have been required in, or incorporated into the Project, and they avoid or substantially

lessen the significant environmental effects as identified in the FSEIR. The IEUA Board further finds that no additional mitigation measures or Project changes are required to reduce the potential impacts discussed above to a less than significant level.

This concludes the summary of environmental impacts that were identified in the FSEIR and the Initial Study as non-significant impacts without or with mitigation related to implementation of the Project.

III. POTENTIALLY SIGNIFICANT IMPACTS THAT CANNOT BE MITIGATED BELOW A LEVEL OF SIGNIFICANCE (CEQA GUIDELINES § 15091(A)(3))

The IEUA Board finds that despite the incorporation of extensive changes and alterations into the Project, approving and implementing the OBMPU will allow three environmental impacts to remain unavoidably significant because these impacts cannot be assured of mitigation to a less than significant level. These unavoidable significant adverse environmental impacts are related to biological resources, greenhouse gas emissions, and utilities and service systems (water supply). The impacts and the feasible mitigation measures identified to minimize them are summarized below. Thus, the potential for significant effects to occur for these issues would continue to exist regardless of whether or not the Project implements the Project changes and mitigation measures mandated by the IEUA Board in the FSEIR.

The potential impact to the above impact categories—Biological Resources, Greenhouse Gas Emissions, and Utilities and Service Systems—were concluded to be significant based on the whole record which demonstrated that these impacts could not be reduced below thresholds of significance by the changes to the Project (alternatives, mitigation measures or design changes) and still achieve Project objectives. This finding is based on a mix of varying Project locations containing potentially significant biological resources, and cumulative construction activities over the next 30 years generating substantial construction-related greenhouse gas emissions. To the extent that future Project development generates the emissions forecast from construction activities and to the extent that the future OBMPU facilities could be located—out of necessity—within sites containing significant biological resources, approval of the OBMPU contributes to the significant impacts as described in detail below. Thus, despite the incorporation of changes to the OBMPU, biological resources, greenhouse gas emissions, and utilities and service systems impacts cannot be fully mitigated to a level of less than significant.

Pursuant to Section 21081(a) of the Public Resources Code and Section 15091(a)(3) of the State CEQA Guidelines, the IEUA finds that, for each of the following significant effects, specific economic, legal, social, technological, or other considerations, including provision of employment opportunities for highly trained workers, make infeasible the mitigation measures or alternatives identified in the FSEIR. These findings are explained below and are supported by substantial evidence in the record of proceedings.

- **1. Biological Resources:** Only checklist items "(a)," "(b)," and "(d)" are discussed below as these are the only impact categories that are significant and unavoidable.
- a. Would the Project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

Finding:

Specific economic, legal, social, technological, or other considerations, including provision of employment opportunities for highly trained workers, make other mitigation measures or Project alternatives identified in the final EIR infeasible for the reasons set forth in Section D and E, below. (pg. 4-66, and 4-69 through 4-76, FSEIR)

Facts:

Potential impacts on jurisdictional waters, special-status plant communities, protected trees, special-status plant, and wildlife species (including critical habitat) will be analyzed for each facility as site-specific design has been established. Once a particular facility area of potential effect (APE) is established, the following steps will be taken during a detailed second-tier evaluation to assure resource impacts are quantified, and site specific measures are identified: In specific instances outlined in the FSEIR, no further biological resource impact analysis may be necessary; in other instances specified in the FSEIR, potentially significant impacts may occur, but specific mitigation can reduce such impacts to a less than significant level; and finally, in circumstances in which a site must be selected for OBMPU facility development where significant biological resources cannot be avoided or mitigated, a significant impact may occur. Future documentation may rely upon the procedures outlined in Sections 15162 and 15168 of the State CEQA Guidelines to determine the required level of CEQA documentation for future infrastructure projects.

The following steps shall occur to determine the level of significance at a given proposed OBMPU facility site:

- Each biological resource will be evaluated for its presence or absence, and for the presence of habitat that could support the resource or provide habitat for the resource. Suitable habitat was determined based on background review and identification of species-specific life-history requirements.
- Potential impacts on special-status wildlife species will be determined using a habitat-based approach where the presence of the species was assumed in suitable habitat. Habitats in the Project footprint and vicinity were determined through a combination of background review, habitat mapping during field surveys, and aerial photograph interpretation.
- Potential impacts on designated critical habitat will be based on the location
 of the critical habitat relative to the Project footprint and the presence of
 primary constituent elements (PCEs) associated with the critical habitat
 designation.

In determining the potential direct and indirect impacts associated with construction and operation impacts on biological resources, a number of assumptions and limitations are identified:

- Construction and operation impacts will be considered temporary if they
 can be fully restored to pre-disturbance conditions following construction.
 Temporary impacts would include construction staging areas, construction
 laydown areas, relocation of underground utilities, and other work space
 that would not be occupied by permanent above-ground facilities during
 Project operation.
- Impacts will be considered permanent when they have lasting effects beyond the Project construction period, or cannot be fully restored following

- construction. Permanent impacts would include new right-of-way for new or expanded facility or water conveyance systems, road crossings, electrical substations, maintenance and operations facilities, and monitoring stations.
- Certain jurisdictional waters types (wetlands) are especially sensitive to disturbance; therefore, impacts on these features will be considered permanent where these features cannot be restored to their pre-Project condition due to the permanent loss by new infrastructure.

Ultimately, because the Chino Basin contains many areas that may support candidate, sensitive, or special status species, and the specific sites in which future OBMPU facilities will be developed is presently unknown, a significant impact may occur. Because the individual projects implemented throughout the Program could result in potentially significant impacts on biological resources, mitigation measures were designed to avoid or reduce the impacts on these resources. The mitigation strategy includes avoidance of impacts on biological resources to the extent possible through requiring the following: preconstruction surveys and field verification of sensitive resources and mitigation to provide compensation for sensitive habitat lost (BIO-1); preparation of a Biological Resources Management Plan (BRMP) that would develop parameters with site-specific mitigation measures to minimize impacts to sensitive biological resources (BIO-2); conduct a preconstruction burrowing owl survey at OBMPU sites that are not fully developed (BIO-6); require facility design and maintenance activity to be planned to protect habitat, which would minimize the potential for OBMPU facilities to significantly modify sensitive habitat (BIO-9); require the establishment of buffer zones adjacent to sensitive biological resources to minimize any potential impacts thereof (BIO-11); revegetate areas disturbed by construction of OBMPU facilities to ensure that construction impacts to sensitive biological resources are minimized and to prevent invasive species from adversely impacting native biological resources (BIO-12); clean construction equipment to minimize introduction of non-native species that might adversely impact native biological resources on a given site (BIO-13); require contractor education and environmental training to ensure that personnel are informed of the protocols required to minimize impacts to biological resources at a given site (BIO-14); require that a biological monitor be present during construction where impacts to Riparian, Riverine, Wetland, Endangered Species or Endangered Species Critical habitat occurs to minimize impacts thereof (BIO-15); require that all trash is disposed of in closed containers to minimize the potential to attract or adversely impact sensitive biological species (BIO-16); restrict use of rodenticides and herbicides to prevent impacts to sensitive biological species (BIO-17); installation of wildlife exclusion fencing at the edge of the construction footprint and along the outer perimeter of Environmentally Sensitive Areas and Environmentally Restricted Areas to restrict special-status species from entering the construction area (BIO-18); require that equipment staging areas are delineated and enforced during construction at each site (BIO-19); restriction of Plastic mono-filament netting or similar material to prevent potential harm to wildlife (BIO-20); access roads will be clearly delineated to minimize potential for impacts to habitat located outside of these delineated areas (BIO-21); to prevent use of trenches and other similar features by wildlife, all excavated, steep-sided holes or trenches more than 8 inches deep will be covered at the close of each working day (BIO-22); and, required preparation and implementation of weed control plan to ensure the measures taken to prevent the spread of weeds do not adversely

impact sensitive biological resources, and conversely this plan shall ensure that invasive species do not adversely impact sensitive biological resources (BIO-23).

Given the speculative nature of the locations of proposed OBMPU Project, there is a potential that an individual OBMPU facility may be developed and have operations within an area containing important biological resources that cannot be avoided, even at the design level. Therefore, the program's contribution is considered cumulatively considerable, and would result in a significant or cumulatively considerable adverse impact. Furthermore, though substantial mitigation is provided to minimize impacts under most circumstances for future OBMPU facilities, no feasible mitigation exists to completely avoid the potential for the OBMPU to have a substantial unmitigable adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service. Thus, the proposed Project is forecast to cause significant unavoidable adverse impacts to biological resources, specifically under this issue.

b. Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

Finding:

Specific economic, legal, social, technological, or other considerations, including provision of employment opportunities for highly trained workers, make other mitigation measures or Project alternatives identified in the final EIR infeasible for the reasons set forth in Section D and E, below (pg. 4-64 to 4-65, 4-68 to 4-70, and 4-73 to 4-75, FSEIR)

Facts:

Critical habitat has been designated for several species adjacent to, directly overlapping, or in the general vicinity of the Program area, with significant concentration of such species along the Santa Ana River corridor and Prado Basin. The primary mitigation for potential impacts to critical habitat will be avoidance. Where avoidance is not feasible, MMs BIO-1 and BIO-7 will be implemented to minimize impacts to the maximum extent feasible. Mitigation is required to address potential impacts to riparian habitat or other sensitive natural communities, furthermore, the future OBMPU Facilities will be required to prepare site-specific subsequent environmental documentation to minimize impacts to riparian habitat or other sensitive natural communities where applicable.

As stated above under Biological Resources issue "a", the mitigation strategy includes avoidance of impacts on sensitive habitat to the extent possible through requiring the following: preconstruction surveys and field verification of sensitive resources and mitigation to provide compensation for sensitive habitat lost (BIO-1); preparation of a Biological Resources Management Plan (BRMP) that would develop parameters with site-specific mitigation measures to minimize impacts to sensitive biological resources (BIO-2); obtainment of regulatory permits and implementing subsequent mitigation that would minimize impacts related to discharge of fill or streambed alteration of jurisdictional areas (BIO-3); require jurisdictional water preconstruction surveys to determine the potential impacts thereof, which will inform the mitigative actions required to minimize impacts to jurisdictional waters/areas (BIO-4); protect migratory birds through conducting

grubbing, brushing or tree removal outside of nesting season or coordinating with the California Department of Fish and Wildlife (CDFW) (**BIO-5**); conduct a preconstruction burrowing owl survey at OBMPU sites that are not fully developed (**BIO-6**); and, verify consistency with or obtain take authorization through applicable habitat conservation plans (HCPs) or multiple species habitat conservation plans (MSHCPs) within a given site (**BIO-7**).

It is rare that critical habitat extends directly within the property owned by Project proponents because these areas are already generally maintained to support the OBMPU operations, not protect habitat. However, where either permanent or temporary disturbances will occur within critical habitat, mitigation will be provided to offset impacts to such habitat to the maximum extent feasible. Furthermore, though substantial mitigation is provided to minimize impacts under most circumstances for future OBMPU facilities, no feasible mitigation exists to completely avoid the potential for the OBMPU to have a substantial unmitigable adverse effect because certain areas that contain critical habitat for species may not be fully mitigable, and an unavoidable significant adverse biological resource impact may occur. Therefore, where avoidance cannot be achieved, the residual impact to critical habitat may be determined to be unavoidable, and therefore, significant.

d. Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Finding:

Specific economic, legal, social, technological, or other considerations, including provision of employment opportunities for highly trained workers, make other mitigation measures or Project alternatives identified in the final EIR infeasible for the reasons set forth in Section D and E, below (pg. 4-69 to 4-76, FSEIR)

Facts:

The proposed OBMPU will be developed within the Chino Basin, which contains many areas that could serve to enable movement of native resident or migratory fish or wildlife species, or serve established native resident or migratory wildlife movement corridors, or serve as native wildlife nursery sites. As such, future OBMPU Facilities will be required to perform these subsequent environmental analyses at the time individual infrastructure improvements are considered for funding. Mitigation is required to minimize impacts under this issue to a level of less than significant.

As stated above under Biological Resources issues "a," "b", and "c," The mitigation strategy includes avoidance of impacts on biological resources to the extent possible through requiring the following: preconstruction surveys and field verification of sensitive resources and mitigation to provide compensation for sensitive habitat lost (BIO-1); preparation of a Biological Resources Management Plan (BRMP) that would develop parameters with site-specific mitigation measures to minimize impacts to sensitive biological resources (BIO-2); protect migratory birds through conducting grubbing, brushing or tree removal outside of nesting season or coordinating with the California Department of Fish and Wildlife (CDFW) (BIO-5); conduct a preconstruction burrowing owl survey at OBMPU sites that are not fully developed (BIO-6); and, verify consistency with or obtain take authorization through applicable habitat conservation plans (HCPs) or multiple species habitat conservation plans (MSHCPs) within a given site (BIO-7); Place

primary emphasis on the preservation of large, unbroken blocks of natural open space and wildlife habitat area, and protect the integrity of habitat linkages (BIO-8); require facility design and maintenance activity to be planned to protect habitat, which would minimize the potential for OBMPU facilities to significantly modify sensitive habitat (BIO-9); require the establishment of buffer zones adjacent to sensitive biological resources to minimize any potential impacts thereof (BIO-11); revegetate areas disturbed by construction of OBMPU facilities to ensure that construction impacts to sensitive biological resources are minimized and to prevent invasive species from adversely impacting native biological resources (BIO-12); clean construction equipment to minimize introduction of non-native species that might adversely impact native biological resources on a given site (BIO-13); require contractor education and environmental training to ensure that personnel are informed of the protocols required to minimize impacts to biological resources at a given site (BIO-14); require that a biological monitor be present during construction where impacts to Riparian, Riverine, Wetland, Endangered Species or Endangered Species Critical habitat occurs to minimize impacts thereof (BIO-15); require that all trash is disposed of in closed containers to minimize the potential to attract or adversely impact sensitive biological species (BIO-16); restrict use of rodenticides and herbicides to prevent impacts to sensitive biological species (BIO-17); installation of wildlife exclusion fencing at the edge of the construction footprint and along the outer perimeter of Environmentally Sensitive Areas and Environmentally Restricted Areas to restrict special-status species from entering the construction area (BIO-18); require that equipment staging areas are delineated and enforced during construction at each site (BIO-19); restriction of Plastic mono-filament netting or similar material to prevent potential harm to wildlife (BIO-20); access roads will be clearly delineated to minimize potential for impacts to habitat located outside of these delineated areas (BIO-21); to prevent use of trenches and other similar features by wildlife, all excavated, steep-sided holes or trenches more than 8 inches deep will be covered at the close of each working day (BIO-22); and, required preparation and implementation of weed control plan to ensure the measures taken to prevent the spread of weeds do not adversely impact sensitive biological resources, and conversely this plan shall ensure that invasive species do not adversely impact sensitive biological resources (BIO-23).

Furthermore, though substantial mitigation is provided to minimize impacts under most circumstances for future OBMPU facilities, no feasible mitigation exists to completely avoid the potential for the OBMPU to have a substantial unmitigable adverse effect due to interfering substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impeding the use of native wildlife nursery sites. Accordingly, this impact cannot be reduced below a less than significant impact and must be concluded to be an unavoidable significant impact.

Mitigation Measures

The IEUA has determined that the Project could have a potentially significant impact on sensitive biological resources. Given the speculative nature of the locations of proposed OBMPU Project, there is a potential that an individual OBMPU facility may have to be developed and have operations within an area containing biological resources that cannot be avoided, even at the design level. Though substantial mitigation is provided to minimize impacts under most circumstances for future OBMPU facilities, no feasible mitigation exists to

completely avoid impacts to biological resources within the Chino Basin due to the significance of such resources within riparian areas, such as the Santa Ana River and Prado Basin. Below are the substantive mitigation measures addressed under Biological Resources:

To reduce or prevent activities that may adversely affect sensitive species to the extent feasible, the following mitigation measures will be incorporated into any specific projects and/or contractor specifications for future Project-related impacts to protect sensitive resources and habitat.

- BIO-1 All future OBMPU Projects shall be required to consult with a qualified professional to determine the need for site-specific biological surveys. Where a site has been determined to require a site-specific survey by a qualified professional, in any case in which a future OBMPU project will affect undeveloped land, or in which the Implementing Agency seeks State Funding, site surveys shall be conducted by a qualified biologist/ecologist. If sensitive species are identified as a result of the survey for which mitigation/compensation must be provided in accordance with regulatory requirements, the following subsequent mitigation actions will be taken:
 - a. The project proponent shall provide compensation for sensitive habitat acreage lost by acquiring and protecting in perpetuity (through property or mitigation bank credit acquisition) habitat for the sensitive species at a ratio of not less than 1:1 for habitat lost. The property acquisition shall include the presence of at least one animal or plant per animal or plant lost at the development site to compensate for the loss of individual sensitive species.
 - b. The final mitigation may differ from the above values based on negotiations between the project proponent and USFWS and CDFW for any incidental take permits for listed species. The project proponent shall retain a copy of the incidental take permit as verification that the mitigation of significant biological resource impacts at a project site with sensitive biological resources has been accomplished.
 - c. Preconstruction botanical surveys for special-status plant communities and special-status plant species will be conducted. in areas that were not previously surveyed because of access or timing issues or project design changes, preconstruction surveys for special-status plant communities and special-status plant species will be conducted before the start of ground-disturbing activities during the appropriate blooming period(s) for the species.
- BIO-2 Biological Resources Management Plan (BRMP): During final design and prior to issuance of construction permits, a BRMP will be prepared to assemble the biological resources mitigation measures for each specific infrastructure improvement in the future. The BRMP will include terms and conditions from applicable permits and agreements and make provisions for monitoring assignments, scheduling, and responsibility. The BRMP will also discuss habitat replacement and revegetation, protection during ground-disturbing activities, performance (growth) standards, maintenance criteria, and monitoring requirements for temporary and permanent native plant community impacts. The parameters of the BRMP will be formed with the mitigation measures from subsequent CEQA documentation, including terms and conditions as applicable from the USFWS, USACE, SWRCB/RWQCB, and CDFW.
- BIO-3 Prior to discharge of fill or streambed alteration of state or federal water jurisdictional areas, the project proponent shall obtain regulatory permits from the U.S. Army Corps of Engineers, local Regional Water Quality Control Board and the California Department of Fish and Wildlife. Any future project that must discharge fill into a channel or otherwise alter a streambed shall be minimized to the extent feasible, and any discharge of fill not avoidable shall be mitigated through compensatory mitigation. Mitigation can be provided by restoration of temporary impacts, enhancement of existing resources, or purchasing into any authorized mitigation bank or in-lieu fee program; by selecting a site of comparable acreage near the site and enhancing it with a native riparian habitat or invasive species removal in accordance with a habitat mitigation plan approved by regulatory agencies; or by acquiring sufficient compensating habitat to meet regulatory agency requirements. Typically, regulatory agencies require mitigation for jurisdi-

ctional waters without any riparian or wetland habitat to be mitigated at a 1:1 ratio. For loss of any riparian or other wetland areas, the mitigation ratio will begin at 2:1 and the ratio will rise based on the type of habitat, habitat quality, and presence of sensitive or listed plants or animals in the affected area. A Habitat Mitigation and Monitoring Proposal shall be prepared and reviewed and approved by the appropriate regulatory agencies. The project proponent will also obtain permits from the regulatory agencies (U.S. Army Corps of Engineers, Regional Water Quality Control Board, CDFW and any other applicable regulatory agency with jurisdiction over the proposed facility improvement) if any impacts to jurisdictional areas will occur. These agencies can impose greater mitigation requirements in their permits, but the Implementing Agency will utilize the ratios outlined above as the minimum required to offset or compensate for impacts to jurisdictional waters, riparian areas or other wetlands.

- BIO-4 Jurisdictional Water Preconstruction Surveys: A federal and state jurisdictional water preconstruction survey will be conducted at least six months before the start of ground-disturbing activities to identify and map all jurisdictional waters in the project footprint and up to a 250-foot buffer around the project footprint, subject to legal property access restrictions. The purpose of this survey is to confirm the extent of jurisdictional waters within the project footprint and adjacent up to 250 foot buffer. If possible, surveys would be performed during the spring, when plant species are in bloom and hydrological indicators are most readily identifiable. These results would then be used to calculate impact acreages and determine the amount of compensatory mitigation required to offset the loss of wetland functions and values.
- BIO-5 To avoid an illegal take of active bird nests, any grubbing, brushing or tree removal will be conducted outside of the State identified nesting season (nesting season is approximately from February 15 through September 1 of a given calendar year). Alternatively, a nesting bird survey that demonstrates that no bird nests will be disturbed during project construction can be conducted by a qualified biologist no more than 14 days prior to initiation of ground disturbance; construction may only commence once a qualified biologist has demonstrated that no nesting birds are present at a given site. The Implementing Agency shall coordinate with the CDFW to develop nesting bird survey protocol. The results of the nesting bird survey will be documented in a report submitted by the avian biologist to the Implementing Agency. The Implementing Agency, in coordination with CDFW and USFWS (as appropriate), may designate nest buffers outside of which construction activities may be allowed to proceed.
- BIO-6 All future OBMPU Projects shall be required to consult with a qualified professional to determine the need for site-specific protocol burrowing owl surveys. Prior to commencement of construction activity where a site has been determined to require a protocol burrowing owl surveys survey by a qualified professional, or in locations that are not fully developed, a protocol burrowing owl survey will be conducted using the 2012 survey protocol methodology identified in the "Staff Report on Burrowing Owl Mitigation, State of California, Natural Resources Agency, Department of Fish and Game, March 7, 2012", or the most recent CDFW survey protocol available. Protocol surveys shall be conducted by a qualified biologist to determine if any burrowing owl burrows are located within the potential area of impact. If occupied burrows may be impacted, an impact minimization plan shall be developed in coordination with CDFW and submitted to the Implementing Agency that will protect the burrow in place or provide for passive relocation to an alternate burrow within the vicinity but outside of the project footprint in accordance with current CDFW guidelines. Active nests must be avoided with a 250-foot buffer until all nestlings have fledged.
- BIO-7 Prior to commencement of construction activity on a project facility within a MSHCP/HCP plan area, consistency with that plan, or take authorization through that plan, shall be obtained. Through avoidance, compensation or a comparable mitigation alternative, each project shall be shown to be consistent with a MSHCP/HCP.
- BIO-8 During the design phase of future OBMPU projects, the Implementing Agency shall place primary emphasis on the preservation of large, unbroken blocks of natural open

space and wildlife habitat area, and protect the integrity of habitat linkages. As part of this emphasis, the Watermaster shall facilitate incorporate programs for purchase of lands, clustering of development to increase the amount of preserved open space, and assurances that the construction of facilities or infrastructure improvements meet standards identical to the environmental protection policies applicable to the specific facilities improvement by implementing agencies.

- BIO-9 Require facility designs and maintenance activities to be planned to protect habitat values and to preserve significant, viable habitat areas and habitat connection in their natural conditions. A qualified biologist shall be retained to determine the scope of the following for a given Project site:
 - Within designated habitat areas of rare, threatened or endangered species, prohibit disturbance of protected biotic resources.
 - b. Within riparian areas and wetlands subject to state or federal regulations, riparian woodlands, oak and walnut woodland, and habitat linkages, require that the vegetative resources which contribute to habitat carrying capacity (vegetative diversity, faunal resting sites, foraging areas, and food sources) are preserved in place or replaced so as not to result in an measurable reduction in the reproductive capacity of sensitive biotic resources.
 - c. Within habitats of plants listed by the CNDDB or CNPS as "special" or "of concern," require that new facilities do not result in a reduction in the number of these plants, if they are present.
- BIO-11 Require the establishment of buffer zones adjacent to areas of biological resources as recommended and defined by the site Biologist. Such buffer zones shall be of adequate width to protect biological resources from grading and construction activities, as well as from the long-term use of adjacent lands. Permitted land modification activities with preservation and buffer areas are to be limited to those that are consistent with the maintenance of the reproductive capacity of the identified resources. The land uses and design of project facilities adjacent to a vegetative preservation area, as well as activities within the designated buffer area are not to be permitted to disturb natural drainage patterns to the point that vegetative resources receive too much or too little water to permit their ongoing health. In addition, landscape adjacent to areas of preserved biological resources shall be designed so as to avoid invasive species which could negatively impact the value of the preserved resource.
- BIO-12 As part of completion of the final site development, after ground disturbance has occurred within or adjacent to any natural area, the disturbed areas shall be revegetated using a plant mix of native plant species that are suitable for long term vegetation management at the specific site, which shall be implemented in cooperation with regulatory agencies and with oversight from a qualified biologist. The seeds mix shall be verified to contain the minimum amount of invasive plant species seeds reasonably available for the project area.
- BIO-13 Clean Construction Equipment. During construction, equipment will be washed before entering the project footprint to reduce potential indirect impacts from inadvertent introduction of nonnative invasive plant species. Mud and plant materials will be removed from construction equipment when working in native plant communities, near special-status plant communities, or in areas where special-status plant species have been identified.
- BIO-14 Contractor Education and Environmental Training.

Personnel who work onsite will attend a Contractor Education and Environmental Training session conducted by a qualified biologist. The environmental training will cover general and specific biological information on the special-status plant species that may be present near the construction site, including the distribution of the resources, the recovery efforts, the legal status of the resources, and the penalties for violation of project permits and laws.

The Contractor Education and Environmental Training sessions will be given before the initiation of construction activities and repeated, as needed, when new personnel begin

work within the project limits. Daily updates and synopsis of the training will be performed during the daily safety ("tailgate") meeting. All personnel who attend the training will be required to sign an attendance list stating that they have received the Contractor Education and Environmental Training, and such tracking sheets shall be maintained for inspection by the Implementing Agency.

BIO-15 Biological Monitor to Be Present during Construction Activities in areas where impacts to Riparian, Riverine, Wetland, Endangered Species or Endangered Species Critical habitat occurs. A biological monitor (or monitors) will be present onsite during construction activities that could result in direct or indirect impacts on sensitive biological resources (including listed species) and to oversee permit compliance and monitoring efforts for all special-status resources.

A biological monitor (qualified biologist) is any person who has a bachelor's degree in biological sciences, zoology, botany, ecology, or a closely related field and/or has demonstrated field experience in and knowledge about the identification and life history of the special-status species or jurisdictional waters that could be affected by project activities. The biological monitor(s) will be responsible for monitoring the Contractor to ensure compliance with the Section 404 Individual Permit, Section 401 Water Quality Certification and the Lake and Streambed Alteration Agreement. Activities to ensure compliance would include performing construction-monitoring activities, including monitoring environmental fencing, identifying areas where special-status plant species are or may be present, and advising the Contractor of methods that may minimize or avoid impacts on these resources. Biological monitor(s) will be required to be present in all areas during ground disturbance activities and for all construction activities conducted within or adjacent to identified Environmentally Sensitive Areas, Wildlife Exclusion Fencing, and Non-Disturbance Zones as defined by the Project biologist.

- BIO-16 Food and Trash: All food-related trash items (e.g., wrappers, cans, bottles, food scraps) will be disposed of in closed containers and removed at least once a week from the construction site.
- BIO-17 Rodenticides and Herbicides: Use of rodenticides and herbicides in the project footprint will be restricted at the direction of the project biologist. This measure is necessary to prevent poisoning of special-status species and the potential reduction or depletion of the prey populations of special-status wildlife species. Where pesticides must be used, they must be used in full accordance with use instructions for the particular chemical and at the direction of the project biologist.
- BIO-18 Wildlife Exclusion Fencing: Exclusion barriers (e.g., silt fences) will be installed at the edge of the construction footprint and along the outer perimeter of Environmentally Sensitive Areas and Environmentally Restricted Areas as defined by the Project biologist prior to the commencement of construction activities to restrict special-status species from entering the construction area during construction. The design specifications of the exclusion fencing will be determined through consultation with the USFWS and/or CDFW, as appropriate. Clearance surveys will be conducted for special-status species after the exclusion fence is installed in compliance with USFWS and/or CDFW requirements. The project biologist shall determine the frequency in which clearance surveys will be conducted to determine the efficacy of the exclusion fencing.
- BIO-19 Equipment Staging Areas: Prior to the commencement of construction, the Project Proponent shall identify staging areas for construction equipment to be utilized during construction that will be located outside sensitive biological resources areas, including habitat for special-status species, jurisdictional waters, and wildlife movement corridors.
- BIO-20 Plastic mono-filament netting (erosion-control matting) or similar material will <u>not</u> be used in erosion control materials to prevent potential harm to wildlife. Materials such as coconut coir matting or tackified hydroseeding compounds will be used as substitutes.
- BIO-21 Vehicle Traffic: During ground-disturbing activities, project-related vehicle traffic will be restricted within the construction area to established roads, construction areas, and

other designated areas to prevent avoidable impacts. Access routes will be clearly flagged and traffic outside of the designated areas will be prohibited.

- BIO-22 Entrapment Prevention: All excavated, steep-sided holes or trenches more than 8 inches deep will be covered at the close of each working day with plywood or similar materials, or a minimum of one escape ramp constructed of earth fill for every 10 feet of trenching will be provided to prevent the entrapment of wildlife. Before such holes or trenches are filled, they will be thoroughly inspected for trapped animals. All culverts or similar enclosed structures with a diameter of 4 inches or greater will be covered, screened, or stored more than 1 foot off the ground to prevent use by wildlife. Stored material will be cleared for common and special-status wildlife species before the pipe is subsequently used or moved.
- BIO-23 Weed Control Plan: Prior to the commencement of construction, a Weed Control Plan will be developed for the Implementing Agency by the Project Biologist to minimize or avoid the spread of weeds during ground-disturbing activities. In the Weed Control Plan, the following topics will be addressed:
 - A Schedule for noxious weed surveys shall be addressed.
 - Weed control treatments shall be addressed and ultimately implemented by the Implementing Agency, including permitted herbicides, and manual and mechanical methods for application; herbicide application will be restricted in Environmentally Sensitive Areas (as defined by the Project biologist).
 - The timing of the weed control treatment for each plant species shall be addressed.
 - Fire prevention measures shall be addressed.

The Project Proponent shall maintain records demonstrating implementation of the Weed Control Plan, and shall make those records available to inspection by the Implementing Agency upon request.

Implementation of the Project specific mitigation measures would minimize construction-related impacts to the greatest extent feasible, including the potential for invasive species occupancy caused by Project-related disturbance of natural areas. However, under items "4(a)," "4(b)," and "4(d)"—which pertain to whether the Project would (a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?, (b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?, and (d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?—the substantive mitigation provided cannot guarantee minimization of impacts to these resources below significance levels.

The IEUA Board finds that with the implementation of the above measures, impacts to biological resources from future OBMPU Project implementation would be reduced or controlled to the maximum extent feasible because specific economic, legal, social, technological, or other considerations, including provision of employment opportunities for highly trained workers, make infeasible other mitigation measures or project alternatives identified in the FSEIR.

2. Greenhouse Gas Emissions

a) Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Finding:

Specific economic, legal, social, technological, or other considerations, including provision of employment opportunities for highly trained workers, make other mitigation measures or Project alternatives identified in the final EIR infeasible for the reasons set forth in Section D and E, below (pg. 4-150 to 4-152, FSEIR)

Facts:

The SCAQMD significance thresholds for greenhouse gas emissions generation are 3,000 metric tons of carbon dioxide equivalent per year (MTCO2e/yr) and 10,000 MTCO₂e/yr depending on the type of end use. The OBMPU is anticipated to generate 18,986.93 MTCO2e/yr as a result of OBMPU construction, which is beyond the SCAQMD 3,000 MTCO₂e/yr and 10,000 MTCO₂e/yr thresholds. The OBMPU will be required to comply with regulations imposed by the State of California and the SCAQMD aimed at the reduction of air pollutant emissions. A list of the regulations that OBMPU projects must comply with is provided on page 4-148 of the FSEIR. While no feasible mitigation measures have been identified that would reduce these emissions to levels that are less than significant, MM AQ-1 would minimize the horsepower of construction equipment, ensure that off-road diesel construction equipment conforms to Tier 4 standards, and ensure that all construction equipment is tuned and maintained in accordance with manufacturer specifications. MM AQ-2 would ensure that all graded areas within future OBMPU Project sites are watered at 2.1-hour watering intervals or otherwise ensure a soil moisture of 12% to control fugitive dust.

In terms of operational GHG emissions, the proposed Project involves the construction of wells, conveyance facilities and ancillary facilities, storage basins, recharge facilities, storage bands, desalters and water treatment facilities, and associated improvements. The proposed Project does not include any substantive new stationary or mobile sources of emissions, and therefore, by its very nature, OBMPU projects will not generate quantifiable GHG emissions from Project operations. The Project does not propose a trip-generating land use or facilities that would generate any substantive amount of on-going GHG emissions. While it is anticipated that the Project would require intermittent maintenance to be conducted, such maintenance would be minimal requiring a negligible amount of traffic trips on an annual basis. However, given that certain components of the OBMPU may require substantial electricity to operate, mitigation is required to ensure that subsequent CEQA documentation is prepared to address projects that generate substantial operational energy-related emissions. As such, MM EN-2 is also required as it addresses operational energy demands and potential GHG emissions.

With implementation of these mitigation measures, the OBMPU would generate greenhouse gas emissions beyond the SCAQMD thresholds, thereby resulting in a significant impact that cannot be mitigated to a level of less than significant with feasible mitigation.

b) Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Finding:

Specific economic, legal, social, technological, or other considerations, including provision of employment opportunities for highly trained workers, make other mitigation measures or Project alternatives identified in the final EIR infeasible for the reasons set forth in Section D and E, below (pg. 4-152, FSEIR)

Facts:

The Project would generate direct or indirect GHG emissions during construction that could result in a significant impact on the environment. Screening thresholds of 3,000 MTCO₂e/yr or 10,000 MTCO₂e/yr to determine if additional analysis is required is an acceptable approach for small projects. This approach is a widely accepted screening threshold used by numerous cities and counties in the SCAB and is based on the SCAQMD staff's proposed GHG screening threshold for stationary source emissions for non-industrial and industrial projects. The SCAQMD Interim GHG Threshold identifies a screening threshold to determine whether additional analysis is required. The Project will result in approximately 18,986.93 MTCO2e/yr from construction activities. As such, the Project would exceed the SCAQMD's recommended numeric thresholds of 3,000 MTCO2e and 10,000 MTCO2e/yr if they were applied. Thus, the Project has the potential to result in a cumulatively considerable impact with respect to GHG emissions.

Additionally, the Project involves construction activity and does not propose a tripgenerating land use or facilities that would generate any substantial amount of ongoing GHG emissions. However, the Project's short-term GHG emissions are above the 3,000 MTCO2e/yr and 10,000 MTCO2e/yr screening thresholds. As such, proposed Project has a significant potential to conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs.

Mitigation Measures

The IEUA has determined that the Project could contribute potentially significant greenhouse gas emissions. With implementation of the recommended Air Quality mitigation measures identified Subchapter 4.2 and 4.5, the Air Quality and Energy Sections of this Draft EIR, GHG emissions still exceed the SCAQMD screening thresholds of 3,000 MTCO₂e/yr and 10,000 MTCO₂e/yr. While greenhouse gas impacts are mitigated to the maximum extent feasible, no feasible mitigation exists to completely avoid generating significant greenhouse gas emissions within the Chino Basin. These mitigation measures (AQ-1, AQ-2, and EN-1) are provided under their respective sections above.

The IEUA Board finds that with the implementation of the above measures, impacts from greenhouse gas emissions generated by future OBMPU construction and operations would be reduced or controlled to the maximum extent feasible. Regardless, no feasible mitigation is available to minimize GHG emissions to below significance thresholds. Thus, exceedances of applicable SCAQMD regional thresholds are considered significant and unavoidable, and the construction of the Project could create a significant cumulative impact to global climate change.

- **3. Utilities and Service Systems:** Only checklist item "(a)" is discussed below as this is the only impact category that is significant and unavoidable.
- a) Would the project require or result in the relocation or construction of new or expanded water, electric power, or natural gas facilities, the construction or relocation of which could cause significant environmental effects?

Finding:

Specific economic, legal, social, technological, or other considerations, including provision of employment opportunities for highly trained workers, make other mitigation measures or Project alternatives identified in the final EIR infeasible for the reasons set forth in Section D and E, below (pg. 4-256 to 4-258, FSEIR and pg. 290 and 292, IS, [Appendix 8.2, FSEIR])

Facts:

The impact analysis for this question was broken down into the following categories, each were addressed in either the FSEIR or the IS, [Appendix 8.2, FSEIR]: water (FSEIR), wastewater (IS, [Appendix 8.2, FSEIR]), stormwater (IS, [Appendix 8.2, FSEIR]), electric power (FSEIR), natural gas (FSEIR), and telecommunications (IS, [Appendix 8.2, FSEIR]).

Water: The extension of infrastructure was determined to be significant because the OBMPU in and of itself would develop—almost solely—water infrastructure projects. As such, given that the proposed OBMPU is anticipated to result in a significant and unavoidable impact related to greenhouse gas from construction of the OBMPU facilities, the construction of the proposed water facilities associated with the OBMPU is anticipated to cause a significant impact. Therefore, impacts under this issue are considered significant and unavoidable.

As stated above under Greenhouse Gas issues "a" and "b", while no feasible mitigation measures have been identified that would reduce greenhouse gas emissions to levels that are less than significant, MM AQ-1 would minimize the horsepower of construction equipment, ensure that off-road diesel construction equipment conforms to Tier 4 standards, and ensure that all construction equipment is tuned and maintained in accordance with manufacturer specifications. MM AQ-2 would ensure that all graded areas within future OBMPU Project sites are watered at 2.1-hour watering intervals or otherwise ensure a soil moisture of 12%. Additionally, while MMs AQ-1, and AQ-2 address construction emissions, MM EN-2 is also required as it addresses operational energy demands and potential GHG emissions. As discussed throughout the FSEIR, the proposed OBMPU would not result in any cumulative impacts from developing the proposed water facilities except those identified under Greenhouse Gas. Project GHG impacts are mitigated to the greatest extent feasible, but the program will still contribute to global climate change through a cumulatively considerable contribution of greenhouse gases. As such, the Project would result in a cumulatively considerable/significant adverse impact related to construction or new or expansion or modifications to existing water facilities.

Wastewater: The extension of wastewater infrastructure was determined to be less than significant, as the few wastewater treatment facilities that would require upgrades or improvements, or the facilities that would require connection to a brine waste disposal pipeline as a result of OBMPU implementation were concluded to individually not anticipated to result in significant impacts. Given that the proposed

improvements have not been completely identified or designed, and that the specific improvements proposed are needed to fully analyze a Project, these improvements need to be further studied once the design has been drafted for each facility. As such, mitigation is required to minimize impacts below significance thresholds.

Implementation of MM **UTIL-1**—which requires the preparation of subsequent CEQA documentation for specific facilities requiring extension wastewater treatment infrastructure—is sufficient to reduce the potential for impacts related to construction of wastewater facilities.

During operation, the majority of the proposed OBMPU facilities would not require connection to the sewer system to operate because such facilities already exist or are not required to support the proposed facilities. As such, there would be less than significant potential for a significant impact related to operational impacts associated with the provision of wastewater treatment facilities that would serve the OBMPU projects.

Ultimately, through the implementation of mitigation, the OBMPU would have a less than significant potential require or result in the relocation or construction of new or expanded wastewater treatment facilities, the construction or relocation of which could cause significant environmental effects.

Stormwater: Implementation of proposed OBMPU would result in the addition of impervious surfaces that would increase stormwater quantity. This increase could affect on-site drainage patterns as well as off-site drainage volume and require the construction and operation of new and/or expanded stormwater drainage facilities. Mitigation is required to minimize impacts related to the extension of stormwater infrastructure at future OBMPU facilities.

Implementation of MM **UTIL-2** is sufficient to reduce the potential for impacts related to construction of stormwater facilities through the requirement that the Watermaster or implementing agency prepare a drainage plan prior to construction with facilities that will be included in the Project's final design.

Ultimately, through the implementation of mitigation, the OBMPU would have a less than significant potential require or result in the relocation or construction of new or expanded stormwater facilities, the construction or relocation of which could cause significant environmental effects.

Electric Power and Natural Gas: The proposed OBMPU would not cause or result in the need for additional energy producing facilities or energy delivery systems, which includes electricity and natural gas. Given that connection to the electrical power grid and connection to natural gas, where a connection to natural gas is required at future facilities, are minor components of the overall construction of OBMPU facilities and that the energy analysis concluded that impacts thereof would be less than significant, the provision of these facilities as part of the overall OBMPU would not cause a significant environmental effect.

However, there is a potential that specific OBMPU facilities may not have access to electricity or natural gas, and will require either extension of infrastructure or

creation of new infrastructure to meet electricity and/or natural gas needs at a future OBMPU site. As such, mitigation will be required to examine the environmental impacts thereof.

Because it is not known where future OBMPU facilities will be installed, there may be locations in which energy and/or natural gas services are not available within the immediate vicinity of a given OBMPU site. As such, MM **UTIL-5** would ensure that a subsequent CEQA documentation is prepared for projects that require extension or development of such infrastructure, which will ensure that any impacts are appropriately assessed and mitigated. Ultimately, through the implementation of mitigation, the OBMPU would have a less than significant potential require or result in the relocation or construction of new or expanded electric power or natural gas facilities, the construction or relocation of which could cause significant environmental effects.

Telecommunications: The types of facilities proposed as part of the OBMPU typically would not require extension of telecommunication services. However, given that the facilities proposed as part the OBMPU have not been designed, there is a potential for certain facilities (such as regional groundwater treatment facilities, and any other facilities proposed that would require full-time personnel on site) to require extension of telecommunication infrastructure as part of operation. As such, MM **UTIL-1** would suffice to ensure that impacts related to extension of infrastructure are minimized for the proposed OBMPU projects that would require telecommunication services by requiring Project-specific subsequent CEQA documentation.

Mitigation Measures

The IEUA has determined that the Project could contribute potentially significant constructionrelated greenhouse gas emissions, therefore resulting in a significant impact related to construction or new or expansion or modifications to existing water facilities under utilities and service systems. All other issues under utilities and service systems can be mitigated through the implementation of the following measures:

- UTIL-1 The Implementing Agency shall prepare subsequent CEQA documentation for the Agua de Lejos Treatment Plant and upgrades to the Chino Desalters, new groundwater treatment facilities at or near well sites and at regionally located sites once specific improvements or facility locations have been identified, and design of such improvements or new facilities has been drafted.
- UTIL-2 Implementation of a Drainage Plan to Reduce Downstream Flows. Prior to issuance of permits for construction of project facilities, the Implementing Agency shall prepare a drainage plan that includes design features to reduce stormwater peak concentration flows exiting the above ground facility sites (consistent with MS4 requirements) 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.
- UTIL-5 Future OBMPU Projects that do not have access to electrical or natural gas connections in the immediate vicinity (defined here as a 500-foot buffer from a given project site), and will require either extension of infrastructure or creation of new infrastructure to meet electricity and/or natural gas needs at a future OBMPU Facility site, subsequent CEQA documentation shall be prepared that fully analyzes the impacts that would result from extension or development of electrical or natural gas infrastructure.

The following measures are also required to minimize impacts under utilities and service systems, though these measures (HYD-1, HYD-2, HYD-5, HYD-6, HYD-7, HYD-8, HYD-9, HYD-10, and HYD-11) are provided under their respective section above.

With implementation of the recommended Air Quality mitigation measures identified Subchapter 4.2 and 4.5, the Air Quality and Energy Sections of this FSEIR, GHG emissions still exceed the SCAQMD screening thresholds of 3,000 MTCO₂e/yr and 10,000 MTCO₂e/yr. While impacts are mitigated to the maximum extent feasible (see **AQ-1**, **AQ-2**, and **EN-1** are provided under their respective sections, above), no feasible mitigation exists to completely avoid generating significant greenhouse gas emissions within the Chino Basin as a result of implementing these water infrastructure projects.

The IEUA Board finds that with the implementation of the above measures, impacts from greenhouse gas emissions generated by future OBMPU construction and operations would be reduced or controlled to the maximum extent feasible, thereby minimizing the potential for the OBMPU to cause a significant impact related to the extension of water infrastructure. Regardless, no feasible mitigation is available to minimize GHG emissions to below significance thresholds. Thus, exceedances of applicable SCAQMD regional thresholds are considered significant and unavoidable, and therefore the proposed OBMPU would result in significant and unavoidable impacts related to construction or new or expansion or modifications to existing water facilities.

Based upon the findings presented in the Final SEIR, the above described environmental issue has been determined by IEUA to be: (1) adequately addressed in the FSEIR; and (2) impacted to a degree deemed by IEUA to be significant and unavoidable because of the limited ability of the Project to fully mitigate biological resource, greenhouse gas emission, and utilities and service systems impacts. No substantial evidence was subsequently presented to or identified by IEUA which further modified or otherwise altered IEUA's significant and unavoidable impact finding with mitigation determined for these environmental issues. This concludes the summary of environmental impacts that were identified in the FSEIR as unavoidable significant adverse impacts even with mitigation related to implementation of the Project.

D. FINDINGS REGARDING SPECIFIC MITIGATION MEASURES

(1) Findings Regarding All Other Mitigation Measures

With the exception of those mitigation measures set forth in the adopted Mitigation Monitoring and Reporting Plan and explained in these findings, the IEUA Board finds that there are no feasible mitigation measures that would substantially lessen or avoid any significant effect that the Project would have on the environment.

E. FINDINGS REGARDING ALTERNATIVES TO THE PROPOSED ACTION

The California Environmental Quality Act (CEQA) requires discussion of "a range of reasonable alternatives to the Project, or to the location of the Project, which could feasibly attain most of the basic objectives of the Project but would avoid or substantially lessen any of the significant effects of the Project, and evaluate the comparative merits of the alternatives. (14 CCR §15126.6(a)). The EIR need not "consider alternatives which are infeasible." (14 CCR § 15126.6(a)).

Among the factors that may be taken into account when addressing the feasibility of alternatives are "site suitability, economic viability, availability of infrastructure, general plan consistency, other plans or regulatory limitations, jurisdictional boundaries (projects with a regionally significant impact should consider the regional context), and whether the proponent can reasonably acquire, control or otherwise have access to the alternative site (or the site is already owned by the proponent). No one of these factors establishes a fixed limit on the scope of reasonable alternatives." (CEQA Guidelines §15126.6(f)(1)).

The Project's purpose and objectives are as follows:

<u>Goal No. 1 - Enhance Basin Water Supplies.</u> The intent of this goal is to increase the water supplies available for Chino Basin Parties and improve water supply reliability. This goal applies to Chino Basin groundwater and all other sources of water available for beneficial use.

<u>Goal No.2 - Protect and Enhance Water Quality.</u> The intent of this goal is to ensure the protection of the long-term beneficial uses of Chino Basin groundwater.

<u>Goal No.3 - Enhance Management of the Basin.</u> The intent of this goal is to encourage sustainable management of the Chino Basin to avoid Material Physical Injury, promote local control, and improve water-supply reliability for the benefit of all Chino Basin Parties.

<u>Goal No. 4 - Equitably Finance the OBMP.</u> The intent of this goal is to identify and use efficient and equitable methods to fund OBMP implementation.

(1) Alternatives Considered But Rejected

Two alternatives considered were screened out for lack of feasibility. First, since management of water resources in the Chino Basin is an activity that cannot be conducted at another location, an alternative location is rejected as infeasible and unable to meet basic Project objectives because a project outside of the Chino Basin cannot achieve the fundamental Project objectives.

Second, the OBMPU is an integrated program/plan designed to incrementally implement the water infrastructure required to create a sustainable water supply and meet the forecast increase in water demand from growth in the Chino Basin over the next 30 years. The Watermaster and the stakeholders/parties spent the past two years developing an integrated program to establish sustainability of water resources in the Chino Basin. The OBMPU consists of a complex, complicated and integrated program that incorporates a mix of projects and operations that are designed to meet the primary re-stated objectives of the OBMPU to meet sustainable and sufficient water supply though 2050. Although minor tweaks or modifications to the OBMPU are likely to occur over the next 30 years, no major changes in the Program have been identified at this stage that can be implemented without harming its ability meet each of the essential OBMPU program objectives. For example, deferring installation of water-related infrastructure in any given year to reduce GHG would simply increase the amount of construction required in the following year, thus raising GHG emissions. Therefore, a reduction of the OBMPU scope in this manner would not achieve the fundamental Project objectives. However, a second "reduced project" alternative is proposed below (the "SMP Alternative"), as it singles out only those components of the OBMPU that would be needed to implement the 2020 Storage Management Plan (SMP) and Storage and Recovery Master Plan (SRMP).

Therefore, the OBMPU considers two alternatives: the "No Project-Baseline Alternative" and the "SMP Alternative".

(2) No Project / Baseline Alternative

(a) Description of Alternative

One of the alternatives that must be evaluated in an EIR is the "no project alternative," regardless of whether it is a feasible alternative to the Project, i.e. would meet the Project objectives or requirements. Under this alternative, the environmental impacts that would occur if the OBMPU Agreement programs are not implemented are evaluated. However, under a No Project alternative, water management activities in the Chino Basin do not go away. By default, the Chino Basin stakeholders would continue to implement the OBMP, which represents the "business as usual" approach to water resources management in the Basin. This alternative represents the continuation of OBMP programs under the approved Peace I and Peace II Agreements. The expanded storage approved in the 2017 Addendum to the OBMP enabled a short-term increase in groundwater storage, but it expires on June 30, 2021.¹ This alternative includes the installation of water infrastructure on an as-needed basis to meet the Peace I and II Agreement programs outlined in the OBMP, without installing those facilities required to achieve the objectives of the proposed OBMPU.

When the No Project Alternative is compared at a general level with the proposed Project facilities, the primary differences are:

- Project Category 1 Wells: a few wells may be installed to support continued OBMP implementation whereas the OBMPU envisions up to 78 new wells and support equipment, including up 60 ASR wells to support expanded storage and recovery capacity (not included under the OBMP);
- Project Category 2 pipelines and support facilities: up to 550,000 lineal feet of new pipeline would be installed to interconnect various new OBMPU facilities whereas under the OBMP some additional pipelines might be installed, without the new OBMPU facilities the amount of pipeline installation would be less;
- Project Category 3 storage basins: recharge facilities and storage bands, six new storage basins (310 acres estimated) and increased groundwater storage of up to 1,000,000 af are envisioned under the OBMPU, whereas no new storage basins are envisioned under the OBMP and maximum groundwater storage under the OBMP will soon return to 500,000 af;
- Project Category 4: desalter facility and water treatment facility development or expansions are envisioned under the OBMPU, and none of these expansions or new facilities are envisioned under the OBMP.

(b) Finding

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The IEUA Board finds that although this alternative would reduce potentially significant impacts identified in the FSEIR as compared to the Project in some areas, it would lead to greater impacts in others, including hydrology/water quality and utilities and service systems. Accordingly, this alternative cannot be considered environmentally superior to all other alternatives considered. (CEQA Guidelines §15126.6(e)(2)).

¹ Tom Dodson & Associates. (2017). Addendum No. 1 to the Optimum Basin Management Program Project. Page 2.

The IEUA Board finds that specific economic, legal, social, technological, or other considerations, including provision of employment opportunities for highly trained workers, make this alternative infeasible. (Public Resources Code §21081(a)(3), CEQA Guidelines §15091(a)(3).)

The IEUA Board identifies the following specific economic, legal, social, technological, or other considerations that make this alternative infeasible. The IEUA Board finds that each of these reasons, standing alone, renders this alternative infeasible:

- The IEUA Board finds that this alternative is infeasible as a matter of public policy because it would not achieve the Project objectives to the extent that the Project would.
- The IEUA Board finds that this alternative is infeasible because it would increase environmental impacts to hydrology/water quality by causing Basin-wide facilities required to ensure that ample water supply is available to meet future demand not to be developed. Further, under this alternative management of the Chino Basin would not address drivers and trends, including climate change, which can result in reduced groundwater recharge, increased evaporation, and reduced imported water supply.
- The IEUA Board finds that this alternative is infeasible because it would increase
 environmental impacts to utilities and service systems by causing Basin-wide facilities
 required to ensure that ample water supply is available to meet future demand not to be
 developed.

(c) Facts in Support of Finding

A summary comparative discussion of the no project alternative was conducted in terms of the specific issues evaluated in the FSEIR (air quality, biological resources, cultural resources, energy, greenhouse gas emissions, hydrology and water quality, tribal cultural resources, and utilities/service systems [extension of water, natural gas, and electrical power infrastructure and adequacy of water supply]). The following text assesses the impacts for the categories with unavoidable significant effects: Biological Resources, Greenhouse Gas Emissions, and Utilities and Service Systems.

Biological Resources: By eliminating the surface water storage facilities, the No Project/Baseline Alternative will have the less general biological resource impacts. In particular the elimination of surface water facilities in the vicinity of Prado Basin (Mill Creek) and related surface water diversions has a potential to eliminate the potentially significant impacts to "critical habitat" in Prado Basin. When mitigation is implemented—primarily avoidance of biologically sensitive areas or compensation to offset losses to sensitive biological resources—the proposed Project approaches the No Project/Baseline Alternative biological resource impacts, but a potential still exists for significant impacts. This is because it is assumed that in order to achieve management of water resources in the Basin under the OBMPU, a given project may be required at a specific location that may contain significant biological resources that cannot be avoided. As such, under this evaluation and set of assumptions the proposed Project effects on biological resources is considered to be greater than the No Project/Baseline Alternative.

<u>Greenhouse Gas</u>: Based on the preceding comparative evaluation of OBMPU and OBMP Project activities, the level of construction GHG impact is forecast to be substantially reduced for the No Project/Baseline Alternative because it would implement substantially fewer facilities. Similarly, it is forecast that this alternative's operations would require substantially less

electricity that would cause air emissions because most of the energy consuming facilities would not be constructed under this alternative. However, after mitigation is implemented—primarily through minimization of construction equipment emissions—the impact of the two alternatives would be different. GHG emissions might be reduced below the industrial threshold of 10,000 metric tons, but probably not below the residential threshold of 3,000 tons of GHG. As such, under this evaluation and set of assumptions the No Project/Baseline Alternative would have substantially less overall construction and operation emissions, but the impact of both alternatives may still be considered to be an unavoidable significant adverse impact.

<u>Utilities and Service Systems</u>: Utilities and service systems is another environmental issue where the two Project alternatives, OBMPU Alternative and No Project/Baseline Alternative, diverge in their potential environmental impacts. Under the No Project/Baseline Alternative it is anticipated that there would be challenges with managing the basin, including that total water demand is projected to grow from about 290,000 afy in 2015 to about 420,000 afy by 2040, for which several of the management programs proposed as part of the OBMPU address. As such, under the No Project/Baseline Alternative, the Basin-wide facilities required to ensure that ample water supply is available to meet future demand may not be developed, and as such a significant impact could occur. Under the OBMPU, unlike the No Project/Baseline Alternative, the Chino Basin would have sufficient water supplies available to serve the Project area through 2050 and reasonably foreseeable future development during normal, dry and multiple dry years, once mitigation is implemented.

For all other Utilities and Service Systems impacts discussed in the FSEIR, including extension of infrastructure (electricity, natural gas, and water), it is anticipated that the No Project/Baseline Alternative would result in substantially lower impacts. This is inclusive of the significant impact related to extension of water infrastructure that would result due to construction related GHG emissions.

Finally, under the No Project/Baseline Alternative, the ability to attain the goals and objectives as described under Chapter 3, Project Description, in this FSEIR would be virtually eliminated. The stakeholders in the Basin would be disabled in their attempt to collectively correct and mitigate conditions of water quality impairment and reduced water supplies (safe yield, and possibly recharge of recycled water in the upper portion of the Chino Basin) to meet their build out development needs.

(3) Storage Management Plan Only Alternative

(a) Description of Alternative

One component of the OBMPU that has been analyzed as part of the whole of the OBMPU in this FSEIR is the 2020 SMP. In order to support the design of optimized storage and recovery programs that are consistent with the 2020 SMP, implementation of the OBMPU also includes the development of a SRMP. An alternative that singles out implementation of activities in support of the SMP, and thereby the SRMP, would encompass the development of the majority of the facilities that meet the objectives of Program Elements (PEs) 8 and 9, refer to Exhibit 5, located within Chapter 3, the Project Description.

The SMP Alternative would enable the development of many of the facilities analyzed as part of the OBMPU—with only a few exceptions—at a reduced intensity. The SMP Alternative would omit the following facilities that were included as part of the scope of projects evaluated in the OBMPU:

- Approximately 100,000 LF of pipeline intended to be utilized to expand the recycled water system for indirect reuse
- New advanced water treatment systems
- Approximately 50,000 LF of pipeline intended to be utilized to conduct direct potable use (50,000 LF)
- Upgrades to an existing recycled water treatment plant to desalt effluent
- Restoration of the WFA Agua de Lejos Treatment Plant capacity for in-lieu recharge
- Stormwater diversion, storage, transfer, and recharge facilities:
 - o New storage basin: Chino Institute for Men
 - o Flood Managed Aquifer Recharge
 - Modifications to an existing basin Jurupa Basin
 - New storage basin: Lower Cucamonga Basin
 - New storage basin: Mills Wetlands
 - o Modifications to an existing basin: Riverside Basin
 - New storage basin: Vulcan Basin
 - o New storage basin: Confluence Project
- MS4 compliant projects

An SMP Alternative would include the following provisions regarding the use of storage space in the basin, identical to those identified and evaluated under the OBMPU SEIR:

- An aggregate amount of 800,000 af is reserved for the Parties' conjunctive-use activities (includes Carryover, Excess Carryover, and Supplemental Accounts) and Metropolitan's DYYP. This amount is referred to as the "First Managed Storage Band" (FMSB).
- The managed storage space between 800,000 and 1,000,000 af is reserved for Storage and Recovery Programs.
 - Storage and Recovery Programs that utilize the managed storage space above 800,000 af will be required to mitigate potential MPI and other adverse impacts as if the 800,000 af in the FMSB is fully used.
 - Renewal or extension of the DYYP agreement will require the DYYP to use storage space above the 800,000 af of the FMSB.

The facilities and/or improvements to existing facilities envisioned under an SMP Alternative to conduct a Storage and Recovery Program within the SMP are listed below, separated into Project Categories, commensurate with the manner in which the summary of all facilities was presented for the OBMPU.

The implementation of the facilities proposed as part of the SMP Alternative consists of construction and operation of the various facilities that are summarized below. These potential facilities are separated into four project categories: (1) Project Category 1: Well Development and Monitoring Devices; (2) Project Category 2: Conveyance Facilities and Ancillary Facilities; (3) Project Category 3: Storage Basins, Recharge Facilities, and Storage Bands; and, (4) Desalters and Water Treatment Facilities. Below are general descriptions of the facilities and operations proposed as part of the SMP Alternative.

Project Category 1: Well Development and Monitoring Devices

Well development includes up to 60 new ASR wells, 10 wells relocated to adjust up to 25,000 afy of pumping, and 8 new wells to expand desalter capacity for a total of 78 new wells. In addition, the SMP Alternative anticipates reconstruction and/or modification of up to 5 wells to mitigate loss of pumping capacity, and destruction and replacement of 5 wells. This category also includes the development of 100 monitoring wells, for a total of up to 178 wells, which

serve the varying purposes listed above and outlined below. The monitoring devices proposed as part of the SMP Alternative include up to 300 flow meters, 100 transducer data loggers and 3 extensometers installed in existing private wells.

Project Category 2: Conveyance Facilities and Related Infrastructure

This category includes the construction of about 400,000 LF of new pipelines, booster pump stations, reservoirs and minor appurtenances whose number, locations and capacities are presently unknown.

Project Category 3: Storage Basins and Recharge Facilities and Storage Bands

This Project Category includes the expansion of the maximum storage space (safe storage capacity) to be used within the Chino Basin from 600,000 af (through June 30, 2021) to between 700,000 af and 1,000,000 af going forward with various impacts that may result for each 100,000 af within this range of storage.

Project Category 4: Desalters and Water Treatment Facilities

The projects proposed under this category are: upgrades to the Chino Desalters, new groundwater treatment facilities at or near well sites and at regionally located sites, and improvements to existing groundwater treatment facilities.

Construction and operational scenarios for the facilities listed above are assumed to be identical to those analyzed and outlined in the OBMPU SEIR.

(b) Finding

The IEUA Board finds that specific economic, legal, social, technological, or other considerations, including provision of employment opportunities for highly trained workers, make this alternative infeasible. (Public Resources Code §21081(a)(3), CEQA Guidelines §15091(a)(3).)

The IEUA Board identifies the following specific economic, legal, social, technological, or other considerations that make this alternative infeasible. The IEUA Board finds that each of these reasons, standing alone, renders this alternative infeasible:

- The IEUA Board finds that this alternative is infeasible as a matter of public policy because it would not achieve the Project objectives to the extent that the Project would.
- The IEUA Board finds that this alternative is infeasible because the SMP Alternative would fail to fully meet Goal No. 2 of the OBMPU, which is to enhance basin water quality, as several of the facilities proposed to meet this objective are eliminated under this alternative.
- The IEUA Board finds that this alternative is infeasible because the SMP Alternative
 would eliminate the majority of the facilities proposed to meet the objectives of PE 2,
 which are required to meet the Project Goal No. 1, to Enhance Basin Water Supplies,
 and thus the SMP Alternative would not adequately meet this goal because it omits PE 2
 projects.
- The IEUA Board finds that this alternative is infeasible because the SMP Alternative narrows the range of projects such that the potential to acquire financing for projects

from a variety of sources would be proportionally narrowed, thereby diminishing the SMP Alternative's ability to meet OBMPU Goal No. 4.

 The IEUA Board finds that this alternative is infeasible for social and policy reasons because it would violate the principal of inclusion used by the Watermaster Board to develop the wide-range of projects that make up the OBMPU.

(c) Facts in Support of Finding

A summary comparative discussion of the no project alternative was conducted in terms of the specific issues evaluated in the FSEIR (air quality, biological resources, cultural resources, energy, greenhouse gas emissions, hydrology and water quality, tribal cultural resources, and utilities/service systems [extension of water, natural gas, and electrical power infrastructure and adequacy of water supply]). The following text assesses the impacts for the categories with unavoidable significant effects: Biological Resources, Greenhouse Gas Emissions, and Utilities and Service Systems.

Biological Resources: While direct impacts to Biological Resources would be substantially reduced and possibly less than significant under the SMP Alternative, indirect impacts to Biological Resources (diversion of surface flows into Prado Basin) would remain potentially significant and unavoidable. When mitigation is implemented—primarily avoidance of biologically sensitive areas or compensation to offset losses to sensitive biological resources—a potential for significant impacts to occur still exists under the SMP Alternative. This is because it is assumed that in order to achieve management of water resources in the Basin under the OBMPU, a given project may be required at a specific location in the southern portion of the Basin that may contain significant biological resources that cannot be avoided. As such, under this evaluation and set of assumptions the anticipated impacts from the OBMPU on biological resources are considered to be greater than the SMP Alternative.

Greenhouse Gas: Though greenhouse gas (GHG) emissions from construction would be considerably reduced under the SMP Alternative, a construction emissions reduction of approximately 47% would be required to fall below the SCAQMD 10,000 MTCO₂e/yr threshold, and an even more significant reduction of operating emissions of approximately 84% would be required to fall below the SCAQMD 3,000 MTCO₂e/yr threshold. Additionally, it is forecast that the SMP Alternative's operations would require less electricity that would cause GHG emissions because this alternative would permit a reduced scope of facilities that could be developed, thereby minimizing potential electricity consumption. As such, under this evaluation and set of assumptions, the SMP alternative would have reduced overall construction and operational emissions, though it is not anticipated that the SMP Alternative would eliminate the significant impact generated by construction-related GHG emissions.

<u>Utilities and Service Systems</u>: Given that the construction of water-related infrastructure would result in significant construction-related GHG emissions, the SMP Alternative would also result in a significant impact under Utilities and Service Systems, though the overall impacts under this issue would be reduced when compared to the OBMPU. For all other Utilities and Service Systems impacts discussed in EIR, it is anticipated that the SMP Alternative would result in lesser impacts than the OBMPU.

The SMP Alternative has comparable, if reduced environmental impacts for all of the resource issues, which is consistent with the SMP Alternative being a "reduced project" alternative, i.e., a component of the OBMPU. While the SMP Alternative could be postulated as the environmentally superior alternative—given that impacts are lessened in all categories except

Hydrology and Water Quality—the SMP Alternative would not meet the fundamental project objectives outlined in the OBMPU Project Description to the extent of the Proposed Project, which are to enhance basin water supplies through improving water supply reliability, protect and enhance water quality, enhance management of the Basin, and equitably finance the OBMPU.

(4) Conclusion

The IEUA Board finds that while No Project/Baseline Alternative and the SMP Alternative reduce environmental impacts as compared to the Proposed Project, they do not meet the project objectives to the extent that the Proposed Project does and lead to some environmental impacts that are greater than the Proposed Project.

As explained in the Statement of Overriding Considerations (see Section F, below), however, the IEUA Board has determined that the benefits of the Proposed Project outweigh any environmental impacts that will be caused by the Proposed Project because of overriding considerations.

Therefore, the IEUA Board is adopting the Proposed Project. The IEUA Board adopts and incorporates by reference herein the analysis in the FSEIR with regard to the Proposed Project and Project alternatives as identified in the FSEIR.

This concludes the summary of alternatives that were identified and considered in the FSEIR and their feasibility and capability to be implemented to reduce the identified significant impacts to biological resource, greenhouse gas emission, and utilities and service systems.

F. STATEMENT OF OVERRIDING CONSIDERATIONS

(1) Project Benefits

The IEUA Board finds that the Proposed Project would have the following economic, legal, social, technological, or other overriding benefits, including region-wide or statewide environmental benefits.

- 1. Sustainable Water Supply: The OBMPU would enable a more sustainable and reliable water supply within the Chino Basin as a result of the expanded safe storage capacity.
- 2. Chino Desalter Program Expansion: Desalter operations help manage the production, treatment, and distribution of highly treated potable water to cities and water agencies throughout the region. The Desalter Program purifies brackish groundwater extracted from the lower Chino Basin and distributes the drinking water to serve the dual purpose of providing a reliable water supply and managing groundwater quantity and quality in the region. The Program improves water supply reliability through enhanced local supplies reducing dependency on imported supplies, as well as water quality through salt and nitrate removal from the groundwater basin. Lastly, the Program is a key in helping achieve and maintain hydraulic control in the Basin.
- 3. Maintain Hydraulic Control: Hydraulic control prevents groundwater that is high in salinity and nitrates from spilling over the Chino Basin southern barrier into the Santa Ana River and downstream users. The OBMPU would enable the Watermaster and Stakeholders to

- maintain hydraulic control, and minimize subsidence, prevent material physical injury (MPI), and manage plume movement through extensive monitoring and mitigation efforts.
- 4. Climate Change Planning: The OBMPU would enable the Watermaster and stakeholders to better manage the Chino Basin in the face of the changing climate, which is forecast to cause reduced groundwater recharge, increased evaporation, and reduced imported water supply.
- 5. Expanded Water and Recycled Water Delivery, and Brine Waste Collection: The OBMPU would enable expanded infrastructure to deliver water and recycled water throughout the Basin, thereby expanding access to these water supplies. Furthermore, the OBMPU would enable expanded collection of brine waste generated by the expanded water treatment within the Basin. These efforts will contribute to the management of total dissolved solids or other compounds such as nitrate within the water drawn from the Chino Basin.
- 6. Maximum Benefit Objectives: The OBMPU would establish a foundation for meeting future salt and nutrient management objectives within the Chino Basin by enhancing water quality.
- 7. Creation of New Permanent Jobs: The OBMPU will create high-quality permanent job opportunities to serve future OBMPU facilities.
- 8. Enable Management of Existing and Emerging Contaminants of Concern: Program Element 6 will enable stakeholders to create a groundwater quality management plan that will enable management of existing and emerging contaminants, helping increase resiliency of the Basin. Furthermore, the OBMPU projects would contribute to the remediation of the contaminant Plumes within the Basin. This Program Element (1) proactively addresses new and near-future drinking water regulation; (2) enables stakeholders to make informed decisions on infrastructure improvements for water-quality management and regulatory compliance; (3) removes groundwater contaminants from the Chino Basin; (4) enables the Parties to produce or leverage their water rights that may be constrained by water quality; and (5) ensures that groundwater is pumped and thereby protects/enhances the Safe Yield of the Basin.
- 9. Economic Expansion: Increasing reliability of the water supply enables economic expansion in the region.
- 10. Regional Benefits: The OBMPU supports and enables projects with a regional focus, benefiting the larger Chino Basin area.
- 11. Construction of new storage/recharge facilities (1) increases recharge of high-quality stormwater that will protect/enhance the Safe Yield of the Basin, improve water quality, reduce dependence on imported water, increase pumping capacity in areas of low groundwater levels and areas of subsidence concern, and provide new supplies for blending water to support the recycled-water recharge program in the Basin; and (2) provides additional supplemental water recharge capacity for replenishment.
- 12. The development, implementation and optimization of Storage and Recovery Programs leverages unused storage space in the basin, reduces reliance on imported water

(especially during dry periods), potentially provides outside funding sources to implement the OBMP Update and improves water quality through the recharge of high-quality water.

- 13. The construction of regional conveyance and treatment projects enables producers in MZ1 and MZ2 to obtain water through regional conveyance, which supports management of groundwater levels to reduce the potential for subsidence and ground fissuring and enables the Parties to increase production in areas currently constrained by poor water quality.
- 14. The monitoring program ensures full compliance with regulatory requirements, ensures full support of basin management initiatives, and enables stakeholders to monitor the performance of the OBMP Update.

(2) Overriding Considerations

This section of the findings addresses the requirements in Public Resources Code Section 21081(b) and Section 15093(a) and (b) of the California Environmental Quality Act Guidelines, which require the Lead Agency to balance the economic, legal, social, technological, or other benefits, including region-wide or statewide environmental benefits, of a proposed project against its unavoidable significant adverse impacts, and to determine whether the project-related significant impacts can be acceptably overridden by the project benefits when the impacts/benefits are compared and balanced.

As outlined in Section C.3, above, the Proposed Project will contribute to cumulative, unavoidable significant adverse environmental impacts in three environmental categories: biological resources, greenhouse gas emissions, and utilities and service systems.

The IEUA Board finds that the previously-stated benefits of the Proposed Project, outlined in Section F.1 above, each individually constitutes a separate and independent basis that justifies approval of the Proposed Project and outweighs the unavoidable adverse environmental effects to biological resources, greenhouse gas emissions, and utilities and service systems that have been outlined above. Thus, even in the absence of one or more of the reasons set forth in Section F.1 above, the IEUA Board has determined that each remaining reason, or any combinations of reasons, is a sufficient basis for approving the Proposed Project, notwithstanding any significant and unavoidable impacts that may occur.

The expansion and improvements in facilities and infrastructure facilitated by the OBMPU are significant long-term benefits to all the communities in the Chino Basin. Furthermore, sustainable management, and thereby sustainable water supply of the Chino Basin is a significant benefit to the entities utilizing Chino Basin groundwater as their primary water supply. Expansion of water, recycled water, and brine waste infrastructure will enable enhanced storage, and enable the efficient conveyance and distribution of basin waters to Chino Basin water users, which is a benefit to the entire community of Chino Basin water users. The OBMPU will enable Watermaster and stakeholders to better anticipate how climate change will impact the Basin water supply, which will allow Watermaster and stakeholders to more accurately plan for the future. The provision of high quality, low salt and nutrient water within the Chino Basin through OBMPU implementation is a benefit to all users of Chino Basin waters, which have historically been impacted by agricultural and other uses that degraded water quality. Construction-related employment created by the proposed project would have an important short-term benefit to the Inland Empire communities, as would the long-term employment opportunities created by the operation of future OBMPU facilities. Ultimately, there are

numerous benefits from implementation of the OBMPU due to the importance of the sustainable provision of groundwater to users within the Chino Basin that would be facilitated through updated groundwater management of the Chino Basin through the implementation of the OBMPU.

Thus, the IEUA Board concludes that the benefits outlined above, that accrue to the community from authorizing the implementation of the Proposed Project, outweigh the unavoidable significant adverse impacts to biological resources, greenhouse gas emissions, and utilities and service systems identified in the FSEIR and described above. The social and economic benefits stated in the previous section are considered sufficient to offset the significant adverse effects that cannot be avoided if the project is implemented.

The IEUA Board's findings set forth in the preceding sections have identified all of the adverse environmental impacts and feasible mitigation measures which can reduce potential adverse environmental impacts to insignificant levels where feasible, or to the lowest achievable levels where significant unavoidable adverse environmental impacts remain. The findings have also analyzed alternatives to determine whether they are reasonable or feasible alternatives to the proposed action, or whether alternatives might reduce or eliminate the significant biological resources, greenhouse gas emissions, and utilities and service systems impacts of the proposed action. No feasible alternative can achieve the requisite minimization of biological resource, greenhouse gas emission, and utilities and service systems impacts without failing to meet the project goals and without causing a significant adverse impact to hydrology and water quality.

The OBMPU FSEIR presents evidence that implementing the proposed project will contribute to significant adverse biological resource, greenhouse gas emission, and utilities and service systems impacts which cannot be assuredly mitigated to an insignificant level. These significant impacts have been outlined above and presented in detail in the FSEIR and the IEUA Board finds that all feasible alternatives and mitigation measures have been adopted or identified for implementation by the IEUA, Watermaster, and/or other agencies, where appropriate. Nonetheless, the IEUA Board recognizes significant adverse effects remain after imposition of all feasible mitigation in the areas of biological resources, greenhouse gas emissions, and utilities and service systems, which can only be offset by the substantial list of benefits described in Section F.

The IEUA Board finds that the project's benefits are substantial as outlined in Section F of this document and that these benefits, individually and collectively, justify overriding the unavoidable significant adverse impacts associated with the Proposed Project. This finding is supported by the fact that the benefits listed above result in the Proposed Project fulfilling the objectives of implementing Chino Basin OBMPU vision for sustainable basin management, through integrating management of water supply, wastewater, and groundwater management over the next 30 years within the Chino Basin. Because the OBMPU is an extension of the existing OBMP, its implementation is deemed essential to sustainable management of the Chino Basin and achieving the objectives of the OBMP and OBMPU—to enhance basin water supply, protect and enhance water quality, enhance management of the basin, and equitably finance OBMPU implementation. The management of the Chino Basin cannot be attained at any other location, through reducing the scope of the OBMPU, or in another alternative manner without equal or greater adverse impacts.

Thus, the IEUA Board concludes that the proposed project's benefits offset the adverse impacts to biological resource, greenhouse gas emission, and utilities and service systems that may

result from implementing the OBMPU. The IEUA Board further finds that the benefits outlined above, when balanced against the unavoidable significant adverse environmental impacts, outweigh these impacts because of the environmental, social, and economic benefits which accrue to IEUA, Watermaster, and the stakeholders in its service area as outlined in Section F of this document.

As the CEQA Lead Agency for the proposed action, the IEUA Board has independently reviewed the applicable sections of this document and the OBMPU FSEIR, and fully understands the scope of impacts caused by implementation of the Proposed Project. Further, the IEUA Board finds that all potential adverse environmental impacts and all feasible mitigation measures to reduce these impacts have been identified in the FSEIR, public comment, and public testimony. These impacts and mitigation measures are discussed in Section C.1 through C.3, and the Board concurs with the facts and findings contained in those sections. The IEUA Board also finds that a reasonable range of alternatives was considered in the SEIR, as summarized in Section E of this document, and that no feasible alternatives which substantially lessen project impacts are available for adoption.

The IEUA Board concurs with the extensive environmental, economic and societal benefits identified above, which will accrue to the Chino Basin groundwater resources, the Board, Watermaster, the stakeholders, and the population residing within Chino Basin. The Board has balanced these substantial environmental, social and economic benefits against the unavoidable significant adverse environmental effects of the proposed project. Given that these substantial benefits will support the residents of the Chino Basin over the long term if the OBMPU is implemented, the IEUA Board hereby finds that the benefits identified herein, collectively and individually, outweigh the unavoidable, cumulative significant adverse biological resource, greenhouse gas emission, and utilities and service systems impacts, and hereby override these impacts to obtain the benefits listed in Section F that will result from approval and implementation of this project.

G. <u>CERTIFICATION OF THE FINAL SUBSEQUENT ENVIRONMENTAL IMPACT REPORT</u> (CEQA GUIDELINES § 15090)

The IEUA Board certifies that the Final Subsequent Environmental Impact Report, dated July 2, 2020, on file with IEUA as SCH#2020020183, has been completed in compliance with CEQA and the State CEQA Guidelines, that the EIR was presented to the Board of Directors, and that the Board of Directors reviewed and considered the information contained therein before approving the Proposed Project, and that the FSEIR reflects the independent judgment and analysis of the Board. (CEQA Guidelines § 15090.)

CONSENT CALENDAR ITEM

2A



MINUTES OF THE WORKSHOP OF THE INLAND EMPIRE UTILITIES AGENCY BOARD OF DIRECTORS

WEDNESDAY, JUNE 3, 2020 10:00 A.M.

DIRECTORS PRESENT via teleconference:

Kati Parker, President Jasmin A. Hall, Vice President Steven J. Elie, Secretary/Treasurer Michael Camacho Paul Hofer

DIRECTORS ABSENT:

None

STAFF PRESENT:

Shivaji Deshmukh, General Manager Daniel Solorzano, Technology Specialist I Wilson To, Technology Specialist II April Woodruff, Board Secretary/Office Manager

STAFF PRESENT via teleconference:

Kathy Besser, Executive Manager of External Affairs & Policy Development/AGM Christiana Daisy, Executive Manager of Engineering/AGM Christina Valencia, Executive Manager of Finance & Administration/AGM

Joshua Aguilar, Senior Engineer

Pietro Cambiaso, Deputy Manager of Planning & Environmental Compliance

Andrea Carruthers, Manager of External Affairs

Elizabeth Hurst, Senior Environmental Resource Planner

Sally Lee, Executive Assistant

Sylvie Lee, Manager of Planning & Environmental Resources

Scott Oakden, Manager of Operations & Maintenance

Cathleen Pieroni, Manager of Government Relations

Craig Proctor, Deputy Manager of Planning & Environmental Compliance

Teresa Velarde, Manager of Internal Audit

Jeff Ziegenbein, Manager of Regional Compost Operations

OTHERS PRESENT via Teleconference:

Jean Cihigoyenetche, JC Law Firm Peter Kavounas, Chino Basin Watermaster Edgar Tellez Foster, Chino Basin Watermaster Veva Weamer, WEI Water A meeting of the Board of Directors of the Inland Empire Utilities Agency* was held via teleconference on the above date.

President Parker called the meeting to order at 10:03 a.m. and led the Pledge of Allegiance to the flag. She stated that the meeting is being conducted virtually by video and audio conferencing. There will be no public location available to attend the meeting; however, the public may participate and provide comments during the meeting by calling into the number provided on the agenda. She added that the public may also view the meeting live through the Agency's website and alternatively, may email comments to the Board Secretary/Office Manager April Woodruff at awoodruff@ieua.org no later than 24 hours prior to the scheduled meeting time. Comments will then be read into the record during the meeting.

Board Secretary/Office Manager April Woodruff took a voice roll call to establish a quorum. A quorum was present.

PUBLIC COMMENT

President Parker stated that members of the public may address the Board. There were no public comments.

ADDITIONS TO THE AGENDA

President Parker asked if there were any changes/additions/deletions to the agenda. There were no changes/additions/deletions to the agenda.

WORKSHOP

REGULATORY CHALLENGES AND POTENTIAL SOLUTIONS

Executive Manager of Engineering/AGM Christiana Daisy introduced the regulatory challenges faced by the Recycled Water Program. She stated that staff would like to take an integrated approach to the management of water resources with the consideration of cost effectiveness and reliability. She continued that the Agency needs to be prepared to meet current compliance requirements but also prepare for anticipated future regulations. She gave an overview of stakeholder engagement regarding regulatory challenges. Manager of Planning & Environmental Resources Sylvie Lee explained the regulatory challenges faced by the recycled water program, potential effects of permit modifications, compliance risk and recommendations, and schedule of implementation for master plans. Ms. Daisy gave an outline of potential solutions to address the challenges and mitigate risks, considerations of an advanced water purification facility (AWPF), and the timeline regarding regulatory challenges and the Chino Basin Program (CBP).

Director Hofer asked if a financial analysis has been done to determine the cost per acre feet for the options provided. General Manager Deshmukh stated that staff's first step is to take the options to the CBP Ad Hoc Committee to discuss the finances of that potential program. Ultimately, staff will bring this item to the Board of Directors on the financial impacts of completing an AWPF within the presented schedule or a scenario of the Agency moving forward with the CBP. Director Elie commented that he would like to receive the approximate financial impacts for the various impacts throughout the process. General Manager Deshmukh stated that staff has been cautious in presenting the most accurate information with the impacts to rate payers in mind.

Ms. Veva Weamer of WEI Water and Deputy Manager of Planning & Environmental Resources Pietro Cambiaso reported on per- and polyfluoroalkyl substances (PFAS) monitoring in the Chino Basin. Ms. Weamer gave an overview of PFAS compounds, the State Water Resources Control Board Division of Drinking Water's advisory and notification levels for perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS), historical and recent monitoring of PFAS, methods used to test for PFAS by the Environmental Protection Agency, geological PFAS concentrations compared to notification levels, amount of total PFAS compounds detected out of the analyzed, PFAS detected in the Chino Basin area, and future required monitoring in the Chino Basin and regulations.

Deputy Manager of Planning & Environmental Compliance Pietro Cambiaso shared the Agency's next steps in regards to PFAS. Director Hofer asked how California's state regulations compare to federal regulations. Mr. Cambiaso stated that the federal level is set for 70 nanograms/liter for PFOA and PFOS combined. Each state establishes their own limits. California has a very low limit and lowers every year. Director Hofer asked if staff knew of any agencies who are pumping groundwater and are close to exceeding the no pump levels. Mr. Cambiaso stated that only one well was infected in Ontario from the models completed; however, this well was not being used because maintenance was being completed at that time. At this time, there are no drinking water wells in our service area with PFAS. Vice President Hall asked if there were any agencies taking the lead in studies on PFAS. Mr. Cambiaso stated that CASA and ACWA have been watching this matter closely. He also mentioned that staff is working with other agencies such as WMWD, EMWD, and OCWD.

CBWM General Manager Peter Kavounas closed the workshop with an update of the Optimum Basin Management Program (OBMP). Mr. Kavounas provided an overview of why the OBMP was created, OBMP implementation, non-replenishment water recharge levels, 2013 Recharge Master Plan Update (RMPU) projects and goals, RMPU Projects funding update, land subsidence management, geological vertical ground motion recorded, maximum benefit regarding the Salt Nutrient Management Plan update, update on maximum benefit, groundwater desalters, annual CDA pumping levels, benefits of recycled water, history of recycled water reuse levels, and OBMP investment and benefits.

Director Hofer asked how the Chino Basin's total dissolved solids (TDS) level compare to other basins in the state. Mr. Kavounas stated that he will get back to Director Hofer with an answer. Director Hall asked where staff is considering building the potential Advanced Purification Facility. General Manager Deshmukh stated that the current alternative is at the RP-4 site.

President Parker thanked Mr. Kavounas, Ms. Weamer, and IEUA staff for their presentations.

GENERAL MANAGER'S COMMENTS

General Manager Deshmukh reported that the Water Infrastructure Finance and Innovation Act (WIFIA) Loan Agreement with the EPA closed on May 27. The \$196,436,335 will fund approximately 44% of the RP-5 Expansion Project estimated at a total project budget of \$450 million (M) following the bid opening of the construction proposals on May 21. The WIFIA loan is payable over 35 years from the date of substantial completion, January 2026, at a fixed rate of 1.36% resulting in estimated gross savings of \$152.8M through the life of the loan, compared to current public financing rates. He mentioned that even at this very competitive rate, staff will be requesting Board approval for the issuance of interim short term financing to finance construction costs for the RP-5 Expansion and lower the all in cost of the WIFIA loan, as well as continue to seek other funding sources that provide additional cost savings. He also stated that the Inland Empire Utilities Agency's Water Quality Laboratory is officially certified as LEED Gold as of June 1, 2020. He gave an update on the Agency's response to the COVID-19 pandemic. He stated that the Agency will continue to look to the county and state guidelines for updates. Staff is revising and finalizing a return to work plan to ensure the safety of employees when they transition back into the office.

BOARD OF DIRECTORS REQUESTED FUTURE AGENDA ITEMS

There were no requested future agenda items.

DIRECTORS' COMMENTS

Director Elie congratulated staff on the closing of the WIFIA loan and he stated that the Agency will continue to look for ways to fund the RP-5 Expansion Project. Director Camacho and Director Hofer thanked the presenters for their presentations. President Parker also thanked staff on the closing of the WIFIA loan.

CLOSED SESSION

The Board went into Closed Session at 11:51 a.m., A. PURSUANT TO GOVERNMENT CODE SECTION 54956.9(d) – CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION: One case; 2. PURSUANT TO GOVERNMENT CODE SECTION 54957(b)(1) – PUBLIC EMPLOYMENT: Board Secretary/Office Manager.

The meeting resumed at 12:48 p.m., and General Counsel Jean Cihigoyenetche stated that the below-mentioned matters were discussed in Closed Session, and the Board took the following actions:

Regarding Conference with Legal Counsel – Anticipated Litigation:

First Case

Upon motion by Director Elie, seconded by Director Camacho, the motion carried (4:1):

M2020-6-4

MOVED, to reject the claim for damages by Raymond Scott Walker.

With the following roll call vote:

Ayes: Elie, Camacho, Hofer, Parker

Noes: None Absent: None Abstain: Hall

Regarding Conference with Legal Counsel – Public Employment:

Board Secretary/Office Manager

The Board took no reportable action

With no further business, President Parker adjourned the meeting at 12:49 p.m.

Steven J. Elie, Secretary/Treasurer

APPROVED: JULY 15, 2020



MINUTES OF THE MEETING OF THE INLAND EMPIRE UTILITIES AGENCY BOARD OF DIRECTORS

WEDNESDAY, JUNE 17, 2020 10:00 A.M.

DIRECTORS PRESENT via Teleconference:

Kati Parker, President Jasmin A. Hall, Vice President Steven J. Elie, Secretary/Treasurer Michael Camacho Paul Hofer

DIRECTORS ABSENT:

None

STAFF PRESENT:

Shivaji Deshmukh, General Manager Kathy Besser, Executive Manager of External Affairs & Policy Development/AGM Christina Valencia, Executive Manager of Finance & Administration/AGM Daniel Solorzano, Technology Specialist I Wilson To, Technology Specialist II April Woodruff, Board Secretary/Office Manager

STAFF PRESENT via Teleconference:

Christiana Daisy, Executive Manager of Engineering/AGM
Randy Lee, Executive Manager of Operations/AGM
Adham Almasri, Senior Engineer
Jerry Burke, Manager of Engineering
Andrea Carruthers, Manager of External Affairs
Javier Chagoyen-Lazaro, Manager of Finance & Accounting
Christopher Garcia, Environmental Resources Planner I
Don Hamlett, Acting Deputy Manager of Integrated Systems Services
Elizabeth Hurst, Senior Environmental Resource Planner
Sally Lee, Executive Assistant
Sylvie Lee, Manager of Planning & Environmental Resources
Jason Marseilles, Deputy Manager of Engineering
Scott Oakden, Manager of Operations & Maintenance
Cathleen Pieroni, Manager of Government Relations
Jesse Pompa, Manager of Grants

Craig Proctor, Deputy Manager of Planning & Environmental Resources

Sushmitha Reddy, Manager of Laboratories

Jeff Ziegenbein, Manager of Regional Compost Operations Jamal Zughbi, Senior Engineer/Project Manager

OTHERS PRESENT via Teleconference:

Jean Cihigoyenetche, JC Law Firm
Darren Hodge, PFM
John Monsen, National Parks Conservation Association
Brian Thomas, PFM

A meeting of the Board of Directors of the Inland Empire Utilities Agency* was held via teleconference on the above date.

President Kati Parker called the meeting to order at 10:02 a.m. and dispensed the Pledge of Allegiance to the flag. Board Secretary/Office Manager April Woodruff took a voice roll call to establish a quorum. A quorum was present.

PUBLIC COMMENT

President Parker stated that members of the public may address the Board. She stated that the meeting is being conducted virtually by video and audio conferencing. There will be no public location available to attend the meeting; however, the public may participate and provide public comment during the meeting by calling into the number provided above. She added that the public may also view the meeting live through the Agency's website. Alternatively, you may email your public comments to the Board Secretary/Office Manager April Woodruff at awoodruff@ieua.org no later than 24 hours prior to the scheduled meeting time. Your comments will then be read into the record during the meeting.

John Monsen from the National Parks Conservation Association gave a public comment on SB 307 and the Cadiz Water Mining Project. He explained the reasons why the project will not be able to meet the standards of SB 307. He further stated that Cadiz would have to convince the state and the commission that the project would not harm natural or cultural resources, watersheds or wildlife. Mr. Monsen stated he would like to meet with the IEUA Board individually to discuss the project, the Agency's water future, the Metropolitan 2020 Integrated Water Resources Plan, the Agency's Urban Water Management Plan, and any other water planning projects. President Parker thanked Mr. Monsen for his comments and stated that staff will contact him.

ADDITIONS TO THE AGENDA

President Parker asked if there were any changes/additions/deletions to the agenda. There were no changes/additions/deletions to the agenda.

CONSENT ITEMS

President Parker asked if there were any Board members wishing to pull an item from the Consent Calendar for discussion. Vice President Jasmin Hall requested Consent Calendar Item 1K and Item 1L be pulled for discussion and action. President Parker pulled Item 1M for discussion and action.

Upon motion by Director Camacho seconded by Director Elie, the motion carried (5:0):

M2020-6-2

MOVED, to approve the Consent Calendar.

- A. The Board approved the minutes from the May 6, 2020 Board Workshop/Meeting and May 20, 2020 Board Meeting.
- B. The Board approved the total disbursements for the month of April 2020, in the amount of \$12,392,970.89.
- C. The Board:
 - 1. Approved the FY 2020/21 Annual Audit Plan; and
 - 2. Directed the Manager of Internal Audit to implement the FY 2020/21 Annual Audit Plan.
- D. The Board:
 - 1. Approved a contract with P&RO Solutions to include installation, training, and licensing for five years for a not-to-exceed value of \$218,000; and
 - 2. Authorized the General Manager to execute the contract.
- E. The Board adopted the Fiscal Year 2020/21-2029/30 Ten-Year Forecast.
- F. The Board:
 - Awarded a five-year contract, with two one-year time extensions, to UtiliQuest, LLC., for utility marking services, for a not-to-exceed amount of \$900,000; and
 - 2. Authorized the General Manager to execute the contract, subject to nonsubstantive changes.
- G. The Board adopted Resolution No. 2020-6-1, amending the Agency's Salary Schedule/Matrix for all groups.

RESOLUTION 2020-6-1
RESOLUTION OF THE BOARD OF DIRECTORS OF THE INLAND EMPIRE UTILITIES AGENCY*, SAN BERNARDINO COUNTY, CALIFORNIA, APPROVING THE AMENDMENT OF THE AGENCY'S SALARY SCHEDULE/MATRIX (for full text, see Resolution Book)

Continued...

M2020-6-2, continued.

H. The Board adopted Resolution No. 2020-6-2, authorizing the General Manager or his designee to execute the USBR WaterSMART Drought Response assistance agreement and to submit all required documents to the USBR.

RESOLUTION 2020-6-2

RESOLUTION OF THE BOARD OF DIRECTORS OF THE INLAND EMPIRE UTILITIES AGENCY*, SAN BERNARDINO COUNTY, CALIFORNIA, AUTHORIZING THE INLAND EMPIRE UTILITIES AGENCY TO ENTER INTO A FINANCIAL ASSISTANCE AGREEMENT UNDER THE WATERSMART DROUGHT RESPONSE PROGRAM: DROUGHT RESILIENCY PROJECTS FOR FY 2021 WITH THE U.S. DEPARTMENT OF INTERIOR, BUREAU OF RECLAMATION AND DESIGNATING A REPRESENTATIVE TO EXECUTE THE FINANCIAL ASSISTANCE AGREEMENT, AND ANY AMENDMENTS THERETO FOR THE RECHARGE MASTER PLAN UPDATE, MONTCLAIR BASIN IMPROVEMENTS PROJECT (for full text, see Resolution Book)

I. The Board adopted Resolution No. 2020-6-3, establishing the appropriations limit for Fiscal Year 2020/21.

RESOLUTION 2020-6-3

RESOLUTION OF THE BOARD OF DIRECTORS OF THE INLAND EMPIRE UTILITIES AGENCY*, SAN BERNARDINO COUNTY, CALIFORNIA, ESTABLISHING AN APPROPRIATIONS OF LIMIT FOR FISCAL YEAR 2020/21 (for full text, see Resolution Book)

- J. The Board:
 - 1. Awarded the Water Quality Laboratory Test Contract to Eurofins Easton Analytical for a total not-to-exceed value of \$6,500,000 over a three-year period, with two one-year options to extend; and
 - 2. Authorized the General Manager to execute the contract, subject to non-substantive changes.
- K. PULLED
- L. PULLED
- M. PULLED

With the following roll call vote:

Ayes: Camacho, Elie, Hofer, Hall, Parker

Noes: None Absent: None Abstain: None

ACTION ITEM

RP-1 FLARE IMPROVEMENT CONSTRUCTION CONTRACT AWARD

Manager of Engineering Jerry Burke gave a presentation on the RP-1 flare improvement project. He stated that the existing flare is over 40 years old, has limited capacity, and is under more stringent regulations from South Coast Air Quality Management District (SCAQMD). The scope of the project is to replace the flare with a reliable and robust flare, and design and install a preselected Aereon three-flare system to have the capacity to treat future expansion at the plant. On May 14, 2020, IEUA received five bids and W.M. Lyles was the lowest, responsive, responsible bidder for a bid price of \$5,540,000. Mr. Burke then reviewed the project budget and schedule.

Vice President Hall stated that she had concerns regarding the monies being spent on upgrades and improvements for this project due to regulations constantly changing and added that some industries have decommissioned these types of flares. Mr. Burke stated the project was put on hold during design until IEUA had the latest regulations. He stated that IEUA staff, the designer, and flare manufacturer are confident this flare will meet future SCAQMD regulations.

Upon motion by Director Camacho, seconded by Director Elie, the motion carried (5:0):

M2020-6-3

MOVED. to:

- 1. Award a construction contract for the RP-1 Flare System Improvements, Project No. EN18006, to W.M. Lyles Co., in the amount of \$5,540,000;
- 2. Approve a contract amendment to Lee & Ro, Inc., for engineering services during construction for a not-to-exceed amount of \$182,550;
- 3. Approve a total project budget amendment in the amount of \$1,968,000 in the Regional Capital (RC) Fund; and
- 4. Authorize the General Manager to execute the contract, contract amendment, and budget augmentation, subject to non-substantive changes.

With the following roll call vote:

Ayes: Camacho, Elie, Hofer, Hall, Parker

Noes: None Absent: None Abstain: None

FORCE MAIN IMPROVEMENTS CONSTRUCTION CONTRACT AWARD

Manager of Engineering Jerry Burke gave a presentation on the regional force main improvements construction contract award. Mr. Burke stated the project is located in the city of Fontana. The project scope includes cleaning out the vaults to conduct a condition assessment and install 15 access vaults to perform inspections and maintenance of the facility. Mr. Burke stated that four bids were received in May from prequalified contractors and the lowest bid was from Ferreira Construction Company, Inc., for \$3,786,070. Mr. Burke explained why the bids were higher than the engineer's estimate and then reviewed the project budget and schedule.

Vice President Hall asked if the 15 percent increase of the total project budget was due to the higher cost of materials, the economy, and extended schedule. Mr. Burke stated that part of the increase is for the engineering services during construction of \$125,428. Mr. Burke stated IEUA asked the designer for record of their support cost after they had completed the plans and found that their engineering services during construction was higher, which contributed to the increase of the total price of the project.

Upon motion by Director Elie, seconded by Director Camacho, the motion carried (5:0):

M2020-6-4

MOVED, to:

- 1. Award a construction contract for the Regional Force Main Improvements, Project No. EN19025, to Ferreira Construction, Company, Inc., in the amount of \$3,786,070;
- 2. Approve a contract amendment to GHD, for engineering services during construction for a not-to-exceed amount of \$125,428;
- 3. Approve a total project budget amendment in the amount of \$627,000 in the Regional Capital (RC) fund; and
- 4. Authorize the General Manager to execute the contract, contract amendment, and budget augmentation, subject to non-substantive changes.

With the following roll call vote:

Ayes: Camacho, Elie, Hofer, Hall, Parker

Noes: None Absent: None Abstain: None

APPROVAL OF 2020A REFUNDING BONDS AND 2020B REVENUE NOTES

General Manager Shivaji Deshmukh stated that the approval of the 2020A Refunding Bonds and 2020B Revenue Notes were approved by the Commission of the Chino Basin Financing Authority meeting earlier today. General Manager Deshmukh explained that this item was listed on the consent calendar; however, due to the size and importance of this item, he recommended that the Board conduct a vote. He stated that the refunding bonds includes the fix-out of the 2008B Variable Rate bonds and the revenue notes are related to the RP-5 Expansion

Upon motion by Director Elie, seconded by Director Camacho, the motion carried (5:0):

M2020-6-5

MOVED, to:

 Adopt Resolution No. 2020-6-4, authorizing the issuance of the Chino Basin Regional Financing Authority Refunding Revenue Bonds, Series 2020A (Inland Empire Utilities Agency) (2020A Bonds) in the principal amount not-to-exceed \$75,000,000 and approve the execution and delivery of certain documents in connection therewith and certain other matters; and

RESOLUTION 2020-6-4

RESOLUTION OF THE BOARD OF DIRECTORS OF THE INLAND EMPIRE UTILITIES AGENCY*, SAN BERNARDINO COUNTY, CALIFORNIA, AUTHORIZING THE ISSUANCE OF NOT TO EXCEED \$75,000,000 REFUNDING REVENUE BONDS (INLAND EMPIRE UTILITIES AGENCY), SERIES 2020A AND APPROVING THE EXECUTION AND DELIVERY OF CERTAIN DOCUMENTS IN CONNECTION THEREWITH AND CERTAIN OTHER MATTERS (for full text, see Resolution Book)

2. Adopt Resolution No. 2020-6-5, authorizing the issuance of the Chino Basin Regional Financing Authority Refunding Revenue Notes, Series 2020B (Inland Empire Utilities Agency) (2020B Bonds) based on specified conditions, in the principal amount not-to-exceed \$250,000,000 and approve the execution and delivery of certain documents in connection therewith and certain other matters.

RESOLUTION 2020-6-5

RESOLUTION OF THE BOARD OF DIRECTORS OF THE INLAND EMPIRE UTILITIES AGENCY*, SAN BERNARDINO COUNTY, CALIFORNIA, AUTHORIZING THE ISSUANCE OF NOT TO EXCEED \$250,000,000 REVENUE NOTES (INLAND EMPIRE UTILITIES AGENCY INTERIM FINANCING) AND APPROVING THE EXECUTION AND DELIVERY OF CERTAIN DOCUMENTS IN CONNECTION THEREWITH AND CERTAIN OTHER MATTERS (for full text, see Resolution Book)

With the following roll call vote:

Ayes: Camacho, Elie, Hofer, Hall, Parker

Noes: None Absent: None Abstain: None

ADOPTION OF RESOLUTION NO. 2020-6-6 TO EXTEND THE EXPIRATION DATE OF RATE RESOLUTIONS

General Manager Shivaji Deshmukh stated that staff is recommending resolutions related to extending current rates beyond June 30, 2020 until rescinded by new resolutions. He stated that

today's presentation was presented to the Finance & Administration Committee on June 10; however, upon further review and discussions at the Regional Sewerage Technical and Policy Committees, it was determined that the focus of the presentation was more on the budget amendments rather than the rates themselves. Staff is recommending that the resolutions be presented to the Regional Committees in late June and early July and be brought forth in July for the Board's consideration. He further stated that staff is recommending no rate increases for the next fiscal year. General Manager Deshmukh stated he has communicated this with IEUA's member agencies.

Upon motion by Director Elie, seconded by Director Hofer, the motion carried (5:0):

M2020-6-6

MOVED, to:

 Adopt Resolution No. 2020-6-6, to extend the rates established with Resolution Nos. 2015-5-4 through 2015-5-6, 2016-6-7, and 2019-6-1 through 2019-6-8 set to expire on June 30, 2020 until rescinded by new resolutions adopted by the Board of Directors.

RESOLUTION 2020-6-6

RESOLUTION OF THE BOARD OF DIRECTORS OF THE INLAND EMPIRE UTILITIES AGENCY*, SAN BERNARDINO COUNTY, CALIFORNIA, EXTENDING RATES ESTABLISHED WITH RESOLUTION NOS. 2015-5-4 THROUGH 2015-5-6, 2016-6-7, AND 2019-6-1 THROUGH 2019-6-8 (for full text, see Resolution Book)

With the following roll call vote:

Ayes: Elie, Hofer, Camacho, Hall, Parker

Noes: None Absent: None Abstain: None

INFORMATION ITEMS

UPPER SANTA ANA RIVER MULTIPLE SPECIES HABITAT CONSERVATION PLAN UPDATE

Senior Environmental Resource Planner Elizabeth Hurst provided an update on the Upper Santa Ana River Multiple Species Habitat Conservation Plan. Ms. Hurst stated this is a collaborative regional project involving over 20 stakeholder agencies, including regulators, which began in 2014. Ms. Hurst discussed the IEUA projects included in the plan and the main components. She then reviewed the estimated annual preliminary cost, timeline, transition to implement, and next steps.

ENGINEERING AND CONSTRUCTION MANAGEMENT UPDATES

The Engineering and Construction Management Updates was received and filed by the Board.

RP-5 EXPANSION BID UPDATE

Deputy Manager of Engineering Jason Marseilles gave a presentation on the RP-5 Expansion bid update. He stated that the project team has been working on the design for the past five years.

Mr. Marseilles reviewed the bid phases from November 2018 through May 21, 2020. He noted that due to the Coronavirus, the March 26 bid date was delayed, and bids were received on May 21 by electronic submission. W.M. Lyles was the lowest bidder at approximately \$330 million. The project team reviewed their bid and deemed them responsive and responsible. Due to the cost disparity, two evaluations were started by Parsons and Arcadis, who were tasked with reviewing the bid phase addendum to quantify the cost impact of the additional scope of work. Mr. Marseilles explained the impacts to the cost of the bid. The engineer's estimate was revised from \$309 million to \$340 million.

Staff reviewed different project alternatives of rejecting bids to allow for further evaluation or to phase the liquid and solids portion of the project and concluded that these would be more costly to the Agency over the life of the project. Therefore, staff is recommending continuing with the award of the RP-5 construction contract. Mr. Marseilles discussed the construction team on the project, project budget, and schedule. He stated that this item will be presented to the Regional Committees and then brought forth to the Board on July 15. Mr. Marseilles further added that the project will be adequately funded by a Water Infrastructure Finance and Innovation Act (WIFIA) loan, State Revolving Funds (SRF) loans and paygo or revenue notes.

President Parker congratulated staff for the sales tax exemption, which will save IEUA up to \$6 million. President Parker stated that Mr. Marseilles has done a great job and announced that he was recently appointed as Deputy Manager of Engineering. General Manager Deshmukh stated that Senior Engineer Brian Wilson is a new employee and doing an excellent job of leading the effort. He further stated that staff will be providing updates to the Board on a monthly basis.

MWD UPDATE

General Manager Deshmukh reported that May represented the end of the 2020 Water Year. At its June Board meeting, MWD reported that State Water Project water deliveries were increased this Water Year to a total of 431,000 AF from a combination of Table A allocations (397,000 AF) and additional supplies from Articles 12(e) and 14(b) (34,000 AF). The increase in Table A Allocations from 15% to 20% last month allowed MWD to stop pumping from SWP groundwater storage programs as of June 1 and meet regional demands.

He stated that the 2020 Water Year has been dry for both Northern California and the Upper Colorado River Basin. However, wet conditions in the Lower Colorado River Basin are expected to increase Metropolitan supplies in 2020. Additionally, MWD's water sales have been trending 24% lower than budgeted, with water sales of 913.8 AF through April 2020. These 2020 Water sales are trending lower than 2019 water sales, which were historically low.

General Manager Deshmukh concluded that the MWD Board continued its deliberations on the process for selecting the District's new General Manager to replace Jeff Kightlinger, who is expected to leave his position by the end of the year. The Board is anticipated to adopt a recruitment process in July.

CBWM UPDATE

General Manager Deshmukh reported that the safe yield reset to 131,000 acre-feet per year was approved by the CBWM Board at its special meeting on May 22, 2020. The CBWM Board gave direction to staff to present the entire OBMP during the September meetings. The OBMPU SEIR is scheduled to be brought in front of the IEUA Board for consideration for adoption on July 15, 2020.

SAWPA UPDATE

General Manager Deshmukh reported that the Commission adopted Resolution No. 2020-06, establishing the Inland Empire Brine Line Rates for fiscal year (FY) 2020/21. The approved rates will remain the same as the current fiscal year through December 31, 2020. In January 2021, the rates will increase by 4 percent for the remainder of FY 20/21. In the interim SAWPA will perform an asset criticality study to determine risks to the Brine Line and assess current Brine Line reserves, which is expected to be completed by November 2020. The Commission unanimously authorized staff to execute a Task Order with JM Consultants in the amount of \$74,990 for the Roundtable of Regions Network Coordinator Project. He explained that the Roundtable of Regions is a Statewide Task Force formed in 2006 that focuses on Integrated Regional Water Management (IRWM). Staff provided a status update on the Disadvantaged Communities Involvement (DCI) Program. Commission unanimously approved a General Services Agreement with JPW Communications and approved a Task Order with JPW Communications for an amount not-to-exceed \$105,000 at \$35,000/year for 3 years for social media support for the Emerging Constituents Program Task Force. In accordance with the Project 26 (Roundtables/Task Forces) Committee agreement, staff provided the quarterly update to the Commission summarizing the group's ongoing activities and goals to be undertaken in FY 2020/21 by all the Roundtables and Task Forces.

CBP UPDATE

General Manager Deshmukh reported that staff met with the CBP Ad Hoc Committee on June 11 to discuss the results of the Economic Evaluation. Staff will schedule individual stakeholder meetings in June and hold a stakeholder workshop in July. Staff is scheduled to resume conversations with Department of Water Resources and Department of Fish and Wildlife next week on June 25. Staff is also working on a joint ad-hoc meeting with CBWM.

THE FOLLOWING ITEMS WERE RECEIVED AND FILED BY THE BOARD

FY 2019/20 THIRD QUARTER BUDGET VARIANCE PERFORMANCE GOAL UPDATES, AND BUDGET TRANSFERS

TREASURER'S REPORT OF FINANCIAL AFFAIRS

2019 ANNUAL REPORT OF THE PRADO BASIN HABITAT SUSTAINABILITY COMMITTEE

FY 2019/20 FINANCIAL AUDIT - COMMUNICATIONS REQUIRED BY SAS 114

HUMAN RESOURCES: WORKLOAD INDICATORS REVIEW

RECYCLED WATER REVENUES AUDIT REPORT

APPROVALS AND DISBURSEMENTS AUTOMATION FOLLOW-UP REVIEW

INTERFUND TRANSACTIONS - FOLLOW-UP REVIEW

REPORT OF OPEN AUDIT RECOMMENDATIONS

INTERNAL AUDIT DEPARTMENT QUARTERLY STATUS REPORT FOR JUNE 2020

PUBLIC OUTREACH AND COMMUNICATION

STATE LEGISLATIVE REPORT AND MATRIX FROM WEST COAST ADVISORS

FEDERAL LEGISLATIVE REPORT AND MATRIX FROM INNOVATIVE FEDERAL STRATEGIES

CALIFORNIA STRATEGIES, LLC MONTHLY ACTIVITY REPORT

AGENCY REPRESENTATIVES' REPORTS

SAWPA REPORT

President Parker stated that the Brine Line rate increases were postponed to January 1, 2021.

MWD REPORT

Director Camacho stated that he had nothing additional to report.

REGIONAL SEWERAGE PROGRAM POLICY COMMITTEE REPORT

President Parker reported that the ten-year forecast, budget review, regional force main construction project, and RP-1 flare were approved by the Committee. CVWD had questions regarding value engineering and staff was able to address their questions.

CHINO BASIN WATERMASTER REPORT

Director Elie reported that Safe-Yield hearing is scheduled for June 26.

CHINO BASIN DESALTER AUTHORITY

President Parker reported that CDA relocated and showed a video of their new office. The South Archibald Plume Clean-up Project was discussed regarding purchasing land for a pipeline. They also created and approved their employee handbook.

INLAND EMPIRE REGIONAL COMPOSTING AUTHORITY

There was nothing to report.

GENERAL MANAGER'S REPORT

General Manager Deshmukh gave a brief update regarding COVID-19 impacts and his weekly email communication to staff and the Board. The Agency will reassess the return to work order. The Agency is working on creating a Pandemic Plan led by safety staff. The Human Resources department will continue to work on the Return to Work plan.

Director Elie commented that Board meetings are more effective if the Board members could attend in person with appropriate social distancing.

Director Hofer asked if members of the public would be able to make their public comments via teleconferencing or telephone during non-pandemic situations. General Counsel Jean Cihigoyenetche stated that this can be an option the Agency can practice through a change in policy. This will require for the technology to be available and set up for each meeting. Discussion ensued regarding the Brown Act.

BOARD OF DIRECTORS' REQUESTED FUTURE AGENDA ITEMS

There were no requested future agenda items.

DIRECTORS' COMMENTS

Director Hall stated she participated in the following webinars: CSDA Special District Legislative Days from May 22-28; Webinar on Environmental Surveillance of the Genetic Fingerprint of COVID-19 in Sewer Sheds on May 21; Water Research Foundation – Mapping Climate Exposure and Climate Information Needs to Water Utility Business on May 21; Webinar on COVID-19 Impact on the Energy Industry on May 27; ACWA Webinar on Common Geohazard Risks Facing California Water Agencies on June 2; American Water Works Association Webinar on Workforce, and COVID-19 Utility Solutions on June 5.

Director Elie stated he attended Bob Stockton's virtual memorial on June 12; participated as a panelist on the Chino Valley Chamber of Commerce Coronavirus Leadership seminar on June 16; and attended the City of Chino Council Meeting on June 16. Director Elie thanked staff for organizing the virtual walk-a-thon for the Meals on Wheels fundraiser.

President Parker also thanked staff for organizing the virtual walk-a-thon for the Meals on Wheels fundraiser. She shared that she had participated and emphasized the importance of the Meals on Wheels organization due to the stay at home order.

CLOSED SESSION

The Board went into Closed Session at 11:20 a.m., A. PURSUANT TO GOVERNMENT CODE SECTION 54956.9(a) – CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION: (1) Chino Basin Municipal Water District vs. City of Chino, Case No. RCV51010 B. PURSUANT TO GOVERNMENT CODE SECTION 54957(b)(1) – PUBLIC EMPLOYMENT: Board Secretary/Office Manager

The meeting resumed at 11:49 a.m., and General Counsel Jean Cihigoyenetche stated that the below-mentioned matters were discussed in Closed Session, and the Board took the following actions:

Regarding Conference with Legal Counsel – Existing Litigation:

Chino Basin Municipal Water District vs. City of Chino, Case No. RCV51010

The Board took no reportable action.

Regarding Conference with Legal Counsel – Public Employment

Board Secretary/Office Manager

The Board took no reportable action.

With no further business, President Parker adjourned the meeting at 11:52 a.m.

Steven J. Elie, Secretary/Treasurer

APPROVED: JULY 15, 2020

CONSENT CALENDAR ITEM

2B



Date: July 15, 2020

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

Committee: Finance & Administration 07/08/20

Executive Contact: Christina Valencia, Executive Manager of Finance & Administration/AGM

Subject: Report on General Disbursements

Executive Summary:

Total disbursements for the month of May 2020 were \$13,298,742.89. Disbursement activity included check payments of \$2,571,197.86 to vendors and \$8,503.96 for worker's compensation related costs. Electronic payments included Automated Clearing House (ACH) of \$5,528,015.23 and wire transfers (excluding payroll) of \$3,665,948.12. Total payroll was \$1,518,546.36 for employees and \$6,531.36 for the Board of Directors.

Staff's Recommendation:

Approve the total disbursements for the month of May 2020, in the amount of \$13,298,742.89

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

Fiscal Impact (explain if not budgeted):

Prior Board Action:

On June 17, 2020 the Board of Directors approved the April 2020 Report on General Disbursements totaling \$12,392,970.89.

Environmental Determination:

Not Applicable

Business Goal:

The report on general disbursements is consistent with the Agency's Business Goal of Fiscal Responsibility in providing financial reporting that accounts for general disbursements associated with operating requirements.

Attachments:

Attachment 1 - Background

Attachment 2 - Details of General Disbursements

Board-Rec No.: 20149

Background

Subject: Treasurer's Report of Financial Affairs

The Treasurer's Report of Financial Affairs for the month ended May 31, 2020 is submitted in a format consistent with State requirements. The monthly report denotes investment transactions that have been executed in accordance with the criteria stated in the Agency's Investment Policy (Resolution No. 2020-4-3).

Agency total cash, investments, and restricted deposits for the month of May 2020 was \$294.5 million, an increase of \$6.6 million from the \$287.9 million reported for the month ended April 2020. The increase was primarily due to receipt of \$8.0 million of property taxes.

The extreme volatility seen in the market in March and April has started to subside. Despite this and the rebound in equities from the March lows, caution abounds as many uncertainties in the economy remain. In response, PFM is actively working to ensure investments continue to be aligned with the pool's goal of safety of principal, liquidity, redeem shares, and frequently review investment valuation to ensure market changes do not adversely affect current investments.

Table 1 represents the unrestricted Agency investment portfolio, by authorized investment and duration, with a total portfolio amount of \$156.7 million. The Agency portfolio excludes cash and restricted deposits in the amount of \$137.8 million held by member agencies and with fiscal agents.

Table 1: Agency Portfolio

Allowoble

Investment Value as or

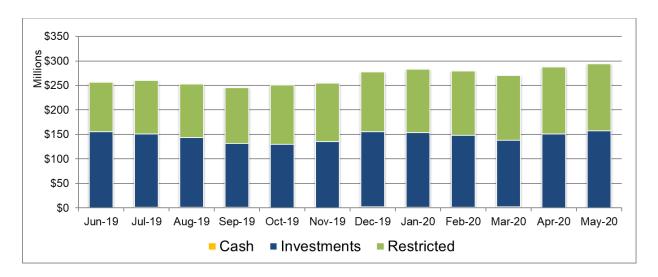
| Authorized Investments | Allowable Threshold (\$ million or %) | Investment Value as of May 31, 2020 (\$ million) | | | | Average Yield % | Portfolio% (Unrestricted) |
|----------------------------------|--|--|--------------|-----------------|---------|--------------------|---------------------------|
| | | Under 1 Year | 1-3 Years | Over 3 Years | Total | Tielu % | (Officestricted) |
| LAIF*- Unrestricted | \$75 | \$44.0 | \$0 | \$0 | \$44.0 | 1.378% | 28.11% |
| CAMP** – Unrestricted | n/a | 10.5 | | | 10.5 | .0670% | 6.73% |
| Citizens Business Bank – Sweep | 40% | 7.8 | | | 7.8 | 0.500% | 5.01% |
| Sub-Total Agency Managed | | \$62.4 | \$0 | \$0 | \$62.4 | 1.148% | 39.84% |
| Brokered Certificates of Deposit | 30% | \$3.1 | \$2.5 | \$0 | \$5.5 | 2.747% | 3.49% |
| Medium Term Notes | 30% | 0.3 | 12.1 | 5.9 | 18.3 | 2.556% | 11.70% |
| US Treasury Notes | n/a | | 21.8 | 20.2 | 42.0 | 2.379% | 26.81% |
| US Gov't Securities | n/a | 6.2 | 9.3 | 12.9 | 28.4 | 2.018% | 18.16% |
| Sub-Total PFM Managed | | \$9.6 | \$45.7 | \$39.0 | \$94.2 | 2.33% | 60.16% |
| Total | | \$72.0 | \$45.7 | \$39.0 | \$156.7 | 1.857% | 100.0% |

^{*}LAIF - Local Agency Investment Fund

Figure 1: Cash, Investments, and Restricted Deposits

^{**}CAMP - California Asset Management Program

^{+/-} due to rounding



Average days cash on hand is calculated using the monthly ending balance of unrestricted cash and cash equivalents divided by disbursements associated with operating expenses, debt service, and capital expenditures as recorded in the Agency's cash flow. The average days cash on hand for the month ended May 2020 increased from 256 days to 267 days as shown in Figure 2.

\$350 350 Days Cash on Hand \$300 300 263 256 248 243 228 233 219 \$250 218 250 \$200 200 \$150 150 \$100 100 \$50 50 \$0 Jul-19 Aug-19 Sep-19 Nov-19 Dec-19 Jan-20 Feb-20 Mar-20 Apr-20 Unrestricted Cash and Cash Equivalents 12 Mos Rolling Disbursements → Days Cash on Hand - 12 Mos Average Exp

Figure 2: Days Cash on Hand – 12 Month Rolling Average

Monthly cash and investment summaries are available on the Agency's website at: https://www.ieua.org/read-our-reports/cash-and-investment/

Attachment 2A

Vendor Checks

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| 232567 | 2200107371 | 05/07/2020 | USD | 773.72 | AIRGAS WEST INC PASADENA CA | 05/1.1/20 |
| 232568 | 2200107427 | 05/07/2020 | USD | 475.00 | ALISON LOUKEH & ASSOCIATES RIVERSIDE CA | 05/12/20 |
| 232569 | 2200107452 | 05/07/2020 | USD | 6,814.43 | BURRIEC WASTE INDUSTRIES INC FONTANA CA | 05/13/20 |
| 232570 | 2200107378 | 05/07/2020 | USD | 768.00 | CALIF WATER ENVIRONMENT ASSOC OAKLAND CA | 05/27/20 |
| 232571 | 2200107428 | 05/07/2020 | USD | 4,712.13 | CARBON ACTIVATED CORP COMPTON CA | 05/12/20 |
| 232572 | 2200107464 | 05/07/2020 | USD | 147.63 | CARL H TAYLOR III CRYSTAL RIVER FL | 05/12/20 |
| 232573 | | 05/07/2020 | | 1,777.50 | CHINO MFG & REPAIR INC CHINO CA | 05/14/20 |
| 232574 | 2200107405 | 05/07/2020 | USD | 2,609.02 | CINTAS CORPORATION LOC#150 PHOENIX AZ | 05/12/20 |
| 232575 | | 05/07/2020 | | 414.50 | CITY EMPLOYEES ASSOCIATES LONG BEACH CA | 05/13/20 |
| 232576 | | 05/07/2020 | | 928.68 | CITY OF CHINO CHINO CA | 05/13/20 |
| 232577 | 2200107367 | 05/07/2020 | USD | 506.45 | COLE PARMER INSTRUMENT CO CHICAGO IL | 05/11/20 |
| 232578 | | 05/07/2020 | | 93.00 | CONCENTRA MEDICAL CENTERS RANCHO CUCAMONGA CA | 05/13/20 |
| 232579 | | 05/07/2020 | | 881.92 | CONTROLLED MOTION SOLUTIONS INSANTA ANA CA | 05/12/20 |
| 232580 | 2200107447 | 05/07/2020 | USD | 191.00 | CUSIP GLOBAL SERVICES CHICAGO IL | 05/11/20 |
| 232581 | 2200107377 | 05/07/2020 | USD | 6,109.66 | DELL MARKETING L P PASADENA CA | 05/12/20 |
| 232582 | 2200107438 | 05/07/2020 | USD | 1,367.35 | EBIX INC ATLANIA CA | 05/14/20 |
| 232583 | 2200107376 | 05/07/2020 | USD | 1,387.08 | ENTENMANN-ROVIN CO LOS ANGELES CA | 05/18/20 |
| 232584 | 2200107461 | 05/07/2020 | USD | 125.00 | FRANCHISE TAX BOARD SACRAMENTO CA | 05/22/20 |
| 232585 | 2200107453 | 05/07/2020 | USD | 860.25 | FRONTIER COMMUNICATIONS CORP CINCINNATI OH | 05/18/20 |
| 232586 | 2200107437 | 05/07/2020 | USD | 5,230.00 | FUJITSU COMPUTER PRODUCTS SUNNYVALE CA | 1 |
| 232587 | 2200107442 | 05/07/2020 | USD | 12,467.46 | GRANICUS SAINT PAUL MN | 05/26/20 |
| 232588 | 2200107369 | 05/07/2020 | USD | 1,221.07 | HOME DEPOT CREDIT SERVICES PHOENIX AZ | 05/12/20 |
| 232589 | 2200107386 | 05/07/2020 | USD | 246.82 | HOSE-MAN INC IRWINDALE CA | 05/13/20 |
| 232590 | 2200107379 | 05/07/2020 | USD | 45.00 | IEPMA-HR RIVERSIDE CA | |
| 232591 | 2200107445 | 05/07/2020 | USD | 3,549.58 | INGERSOLL RAND COMPANY CHICAGO IL | 05/11/20 |
| 232592 | 2200107458 | 05/07/2020 | USD | 51.00 | INLAND EMPIRE UNITED WAY RANCHO CUCAMONGA CA | 05/12/20 |
| 232593 | 2200107435 | 05/07/2020 | USD | 3,914.75 | KRD MANAGEMENT CONSULTING LLC TEMBOULA CA | 05/12/20 |
| 232594 | 2200107395 | 05/07/2020 | USD | 1,970.20 | MIELE INC PRINCEION NJ | 05/13/20 |
| 232595 | 2200107432 | 05/07/2020 | USD | 19,584.00 | MWH CONSTRUCTORS INC BROOMFIELD CO | 05/12/20 |
| 232596 | 2200107392 | 05/07/2020 | USD | 775.11 | NALMANN HOBBS MATERIAL HANDLINLOS ANGELES CA | 05/14/20 |
| 232597 | 2200107404 | 05/07/2020 | USD | 370.27 | PATTEN SYSTEMS INC HUNITINGION BEACH CA | 05/13/2 |
| 232598 | 2200107365 | 05/07/2020 | USD | 995.63 | RBM LOCK & KEY ONTARIO CA | 05/13/2 |
| 232599 | 2200107408 | 05/07/2020 | USD | 734.96 | READY REFRESH BY NESTLE LOUISVILLE KY | 05/18/2 |
| 232600 | 2200107387 | 05/07/2020 | USD | 225.00 | RED WING BUSINESS ADVANTAGE DALLAS TX | 05/12/2 |
| 232601 | 2200107448 | 05/07/2020 | USD | 1,377.50 | RISE INTERPRETING INC ARLINGTON AZ | 05/19/2 |
| 232602 | 2200107389 | 05/07/2020 | USD | 2,450.00 | SAN BERNARDINO COUNTY SAN BERNARDINO CA | 05/13/2 |
| 232603 | 2200107373 | 05/07/2020 | USD | 36,866.00 | SAN BERNARDINO VALLEY MWD SAN BERNARDINO CA | 05/28/2 |
| 232604 | 2200107390 | 05/07/2020 | USD | 15,001.00 | SCAP ENCINTIAS CA | 05/20/20 |
| 232605 | | 05/07/2020 | | 421.13 | SHERIFF'S COURT SERVICES SAN BERNARDINO CA | 05/14/20 |
| 232606 | | 05/07/2020 | | 2,637.18 | SO CALIF GAS MONTEREY PARK CA | 05/15/2 |
| 232607 | 2200107410 | 05/07/2020 | USD | 170.00 | SOCIETY FOR MAINTENANCE AND ATLANTA GA | 05/18/2 |
| 232608 | | 05/07/2020 | | 759.59 | SOUTH COAST AQMD LOS ANGELES CA | 05/11/2 |
| 232609 | 2200107417 | 05/07/2020 | USD | 250.00 | STAFFING NETWORK LLC CAROL STREAM IL | 05/13/2 |
| 232610 | 2200107420 | 05/07/2020 | LUSD | 9.907.50 | STATEWIDE TRAFFIC SAFETY AND SPASADENA CA | 05/11/2 |

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| 232612 | 2200107406 0 | 5/07/2020 | USD | 38,494.94 | U S BANK ST LOUIS MO | 05/13 |
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| 232614 | 2200107388 0 | 5/07/2020 | USD | 1,338.28 | VERIZON WIRELESS DALLAS TX | 05/12 |
| 232615 | 2200107433 0 | 5/07/2020 | USD | 8,769.08 | VIRAMONIES EXPRESS INC CORONA CA | 05/20 |
| 232616 | 2200107446 0 | 5/07/2020 | USD | 2,106.25 | WESTWATER RESEARCH LLC BOISE ID | 05/20 |
| 232617 | 2200107381 0 | | | 4,280.28 | WM CORPORATE SERVICES INC LOS ANGELES CA | 05/14 |
| 232618 | 2200107397 0 | | | 257.83 | WORLDWIDE EXPRESS PASADENA CA | 05/12 |
| 232619 | 2200107471 0 | | | 294.94 | HOME DEPOT CREDIT SERVICES PHOENIX AZ | 05/12 |
| 232620 | 2200107489 0 | | | 47.41 | AIRGAS WEST INC PASADENA CA | 05/18 |
| 232621 | 2200107490 0 | · · · · · · | | | APPLEONE EMPLOYMENT SERVICES GLENDALE CA | 05/19 |
| 232622 | 2200107525 0 | *. *. | | | BADGER METER INC MILWAUKEE WI | 05/21 |
| 232623 | 2200107516 0 | | 0.00 | 355107 | voided by SHEATH - Printed incorrectly | 05/14 |
| 232624 | 2200107492 0 | | TICD | 192 00 | CALIF WATER ENVIRONMENT ASSOC OAKLAND CA | 06/03 |
| 232625 | 2200107492 0 | | | | CALIFORNIA STRATEGIES LLC SACRAMENTO CA | 06/01 |
| 232626 | 2200107508 0 | | | | CARRIER CORPORATION FARMINGTON CT | 05/18 |
| 232627 | 2200107308 0 | | | | CHINO BASIN WATER CONSERVATIONMONICLAIR CA | 05/19 |
| 232628 | 2200107499 0 | | | | CHINO HILLS FORD CHINO CA | 05/19 |
| | !!! | · · · · · · · · · · · · · · · · · · · | | | CHINO VALLEY UNIFIED SCHOOL DICHINO CA | 05/20 |
| 232629 | 2200107496 0 | | | | CINTAS CORPORATION LOC#150 PHOENIX AZ | 05/21 |
| 232630 | 2200107504 0 | * . * . | | | CITY OF CHINO CHINO CA | 05/21 |
| 232631 | 2200107526 0 | | | | Į. | 05/21 |
| 232632 | 2200107513 0 | *. *. | | | CIVILIEC ENGINEERING, INC. MONROVIA CA | 06/05 |
| 232633 | 2200107510 0 | | | , | CODESP HUNTINGTON BEACH CA | 05/18 |
| 232634 | 2200107487 0 | | | | COLE PARMER INSTRUMENT CO CHICAGO IL | 1 ' |
| 232635 | 2200107515 0 | | | | CONTROLWORKS, INC. CHINO CA | 05/20 |
| 232636 | 2200107509 0 | | | | CORRPRO COMPANIES INC DALLAS TX | 05/20 |
| 232637 | 2200107517 0 | | | · · | CSI ELECIRICAL CONTRACTORS INCSANTA FE SPRINGS CA | 05/19 |
| 232638 | 2200107527 0 | | | | CUCAMONGA VALLEY WATER DISTRICLOS ANGELES CA | 05/19 |
| 232639 | 2200107514 0 | * | • | ! | D & H WATER SYSTEMS INC OCEANSIDE CA | 05/19 |
| 232640 | 2200107533 0 | | | | DELGADO-ORAMAS III, JOSE M CHINO HILLS CA | 05/29 |
| 232641 | 2200107523 0 | | | , | DUPERON CORPORATION SAGINAW MI | 05/19 |
| 232642 | 2200107532 0 | *. *. | ! | , | EMPLOYMENT DEVELOPMENT DEPARTMSACRAMENTO CA | 05/19 |
| 232643 | 2200107502 | | ! | | EN POINTE TECHNOLOGIES SALES ILOS ANGELES CA | 05/19 |
| 232644 | 2200107529 0 | | | | FONTANA WATER COMPANY FONTANA CA | 05/20 |
| 232645 | 2200107531 0 | 05/14/2020 | USD | | FRONTIER COMMUNICATIONS CORP CINCINNATI OH | 05/21 |
| 232646 | 2200107524 | 05/14/2020 | USD | | G/M BUSINESS INTERIORS RIVERSIDE CA | 05/21 |
| 232647 | 2200107512 | 05/14/2020 | USD | 4,602.26 | CHD PASADENA CA | 05/18 |
| 232648 | 2200107491 | 05/14/2020 | USD | 283.87 | GRAYBAR ELECTRIC CO LOS ANGELES CA | 05/18 |
| 232649 | 2200107534 | 05/14/2020 | USD | 452.52 | LENING, SCOTT CHINO HILLS CA | 05/20 |
| 232650 | 2200107530 | 05/14/2020 | USD | 809.69 | LEVEL 3 COMMUNICATIONS LLC DENVER CO | 05/20 |
| 232651 | 2200107495 | | | 400.00 | LIEBERT CASSIDY WHITMORE LOS ANGELES CA | İ |
| 232652 | 2200107511 | | ! | | LILLESTRAND LEADERSHIP CONSULTCHINO HILLS CA | 06/04 |
| 232653 | 2200107498 | | | | LUDECA INC DORAL FL | 05/20 |
| 232654 | 2200107507 | | | | MAUREEN ERBEZNIK AND ASSOCIATELOS ANGELES CA | 05/26 |

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| 232657 | 2200107519 | 05/14/2020 | USD | 13,825.00 | MWH CONSTRUCTORS INC BROOMFIELD CO | 05/26/2020 |
| 232658 | 2200107518 | 05/14/2020 | USD | 7,450.00 | NYHART INDIANAPOLIS IN | 05/22/2020 |
| 232659 | ! | 05/14/2020 | : | 121.71 | OFFICE DEPOT PHOENIX AZ | 05/21/202 |
| 232660 | , | 05/14/2020 | : | 722.39 | READY REFRESH BY NESTLE LOUISVILLE KY | 05/26/202 |
| 232661 | | 05/14/2020 | 1 | 874.00 | SAN BERNARDINO COUNTY SAN BERNARDINO CA | 06/01/2020 |
| 232662 | ! | 05/14/2020 | | | SO CALIF GAS MONTEREY PARK CA | 05/22/2020 |
| 232663 | | 05/14/2020 | | | STATE WATER RESOURCES CNIRL BRSACRAMENTO CA | 06/01/2020 |
| 232664 | , | 05/14/2020 | 1 | | SWRCB ACCOUNTING OFFICE SACRAMENTO CA | 05/20/2020 |
| 232665 | ! | 05/14/2020 | 3 | | TRUKSPECT INC WHITTIER CA | 06/03/2020 |
| 232666 | ! | 05/14/2020 | ž. | ! | VECTORUSA TORRANCE CA | 05/19/2020 |
| 232667 | ! | 05/14/2020 | 1 | · · | VISTAGE WORLDWIDE INC LOS ANGELES CA | 05/18/2020 |
| 232668 | | 05/14/2020 | | ! | WORLDWIDE EXPRESS ALBANY NY | 06/01/2020 |
| 232669 | | 05/14/2020 | I . | | BUSINESS CARD WILMINGTON DE | 05/18/2020 |
| 232670 | | 05/14/2020 | | ! | U S BANK NA MINNEAPOLIS MN | 05/18/2020 |
| 232671 | | 05/21/2020 | | ! | AGILENT TECHNOLOGIES INC LOS ANGELES CA | 05/26/202 |
| 232672 | | 05/21/2020 | | | AIRGAS WEST INC PASADENA CA | 05/26/202 |
| 232673 | | 05/21/2020 | | | ARELIANO, TONY CHINO HILLS CA | 06/08/2020 |
| 232674 | | 05/21/2020 | | | ARMENDAREZ III, JESUS M FONTANA CA | ' ' |
| 232675 | | 2 05/21/2020 | | ! | BANNER BANK CARLSBAD CA | 05/27/2020 |
| 232676 | | 05/21/2020 | | ! | BECKER, NIKI CHINO HILLS CA | |
| 232677 | | 05/21/2020 | | ! | BROWN AND CALDWELL WALNUT CREEK CA | 06/09/2020 |
| 232678 | | 3 05/21/2020 | | | CALIF WATER ENVIRONMENT ASSOC OAKLAND CA | 06/10/2020 |
| 232679 | | 05/21/2020 | | | CARL H TAYLOR III CRYSTAL RIVER FL | 05/27/2020 |
| 232680 | 2200107702 | 05/21/2020 | USD | • | CARRIER CORPORATION FARMINGTON CT | 05/27/2020 |
| 232681 | | 05/21/2020 | | , | CHINO MFG & REPAIR INC CHINO CA | 05/28/2020 |
| 232682 | | 2 05/21/2020 | | , | CHINO VALLEY CHAMBER OF COMMERCHINO CA | 06/10/2020 |
| 232683 | | 3 05/21/2020 | | | CINIAS CORPORATION ONTARIO CA | 05/29/2020 |
| 232684 | 3 | 1 05/21/2020 | 1 | ! | CITY EMPLOYEES ASSOCIATES LONG BEACH CA | 05/28/202 |
| 232685 | | 1 05/21/2020 | | | CONCENIRA MEDICAL CENTERS RANCHO CUCAMONGA CA | 05/27/202 |
| 232686 | | 2 05/21/2020 | | | COUNTS UNLIMITED INC RIVERSIDE CA | 05/29/202 |
| 232687 | | 5 05/21/2020 | | | CUCAMONGA VALLEY WATER DISTRICTOS ANGELES CA | 05/27/202 |
| 232688 | , | 5 05/21/2020 | | 1 | DAVID WHEELER'S PEST CONTROL, NORCO CA | 06/01/202 |
| 232689 | , | 7 05/21/2020 | ! | , | DELL MARKETING L P PASADENA CA | 05/26/202 |
| 232690 | | 1 05/21/2020 | | | DORST-PORADA, DEBRA ONIARIO CA | 06/08/202 |
| 232691 | | 5 05/21/2020 | | | EN POINTE TECHNOLOGIES SALES ILOS ANGELES CA | 05/26/202 |
| 232692 | | 5 05/21/2020 | | , | FLW INC HUNTINGTON BEACH CA | 06/01/202 |
| 232692 | | 05/21/2020 | | • | FRANCHISE TAX BOARD SACRAMENIO CA | 06/08/202 |
| 232694 | | 7 05/21/2020 | | | FRONTIER COMMUNICATIONS CORP CINCINNATI OH | 06/01/202 |
| 232695 | | 7 05/21/2020 | | | GEI CONSULTANTS INC BOSTON MA | 05/27/202 |
| 232696 | 2200107676 | 6 05/21/2020 | TISD | | CHD PASADENA CA | 06/01/202 |
| 232696 | | B 05/21/2020 | | | HARPER & ASSOCIATES ENGINEERINCORONA CA | 05/29/202 |
| 232698 | | 5 05/21/2020 | | , | HEATH, SHARYL CHINO HILLS CA | 05, 25, 202 |
| 232030 | 2200107703 | 03/21/2020 | 1000 | 00.50 | The state of the s | |

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| 232700 | 2200107684 | 05/21/2020 | USD | 43,139.87 | HOWDEN ROOTS LLC DALLAS TX | 05/26/202 |
| 232701 | 2200107690 | 05/21/2020 | USD | 3,589.03 | HUBER TECHNOLOGY INC HUNTERSVILLE NC | 06/02/202 |
| 232702 | 2200107677 | 05/21/2020 | USD | 4,137.89 | ICE QUBE INC GREENSBURG PA | 05/27/202 |
| 232703 | 2200107704 | 05/21/2020 | USD | 76.00 | IGNACIO, JOEL CHINO HILLS CA | |
| 232704 | | 05/21/2020 | | 660.56 | INDUSTRIAL RUBBER & SUPPLY INCSAN BERNARDINO CA | 05/28/202 |
| 232705 | 2200107699 | 05/21/2020 | USD | 51.00 | INLAND EMPIRE UNITED WAY RANCHO CUCAMONGA CA | 05/29/202 |
| 232706 | | 05/21/2020 | | 220.86 | INLAND VALLEY DAILY BULLETIN COLORADO SPRINGS CO | 05/29/202 |
| 232707 | | 05/21/2020 | | | JAMES MOMINN INC RIVERSIDE CA | 06/02/202 |
| 232708 | 1 | 05/21/2020 | | 100.00 | JOHNSON, CAROLYN TENICE MONTCLAIR CA | 05/28/202 |
| 232709 | | 05/21/2020 | | | JOHNSON, TRENION CHINO HILLS CA | |
| 232710 | ! | 05/21/2020 | | | KAMAN INDUSTRIAL TECHNOLOGIES LOS ANGELES CA | 05/26/202 |
| 232711 | | 05/21/2020 | | , | LIEBERT CASSIDY WHITMORE LOS ANGELES CA | 05/29/202 |
| 232712 | | 05/21/2020 | | | LITTLE SISTER'S TRUCK WASH, INBONSALL CA | 06/05/202 |
| 232713 | | 05/21/2020 | | | LOPEZ, MARK CHINO HILLS CA | |
| 232714 | | 05/21/2020 | • | | LOS ANGELES TIMES PHOENIX AZ | 05/27/202 |
| 232715 | | 05/21/2020 | | | MIDPOINT BEARING ONTARIO CA | 05/26/202 |
| 232716 | | 05/21/2020 | | | O RINGS & THINGS FONTANA CA | 05/29/202 |
| 232717 | , | 05/21/2020 | | | OFFICE DEPOT PHOENIX AZ | 05/29/202 |
| 232718 | 1 | 05/21/2020 | , | | ONTARIO MUNICIPAL UTILITIES COONTARIO CA | 05/26/202 |
| 232719 | | 05/21/2020 | | , | PERKINELMER HEALTH SCIENCES INCHICAGO IL | 05/27/202 |
| 232720 | | 05/21/2020 | | | PROFORMA PRINTING SYSTEMS LOS ANGELES CA | 05/28/202 |
| 232721 | | 05/21/2020 | | | RBM LOCK & KEY ONTARIO CA | 05/29/202 |
| 232722 | | 05/21/2020 | | | REED, RANDALL J ALTA LOMA CA | 06/02/202 |
| 232723 | | 05/21/2020 | | | ROGERS, PETER J CHINO HILLS CA | 05/27/202 |
| 232724 | 1 | 05/21/2020 | | | SHERIFF'S COURT SERVICES SAN BERNARDINO CA | 05/28/202 |
| 232725 | ! | 05/21/2020 | 1 | | SIGNATURE SCUBA RANCHO CUCAMONGA CA | 06/08/202 |
| 232726 | | 05/21/2020 | | | SOUTHWEST ALARM SERVICE UPLAND CA | 05/28/202 |
| 232727 | | 05/21/2020 | | ' | STONE, DEBRA KAYE UPLAND CA | 05, 25, 25 |
| 232728 | | 05/21/2020 | | | SUNRISE COLLISION CENTER FONIANA CA | 06/08/202 |
| 232729 | | 05/21/2020 | ! | | SUPPLY SOLUTIONS CERRITOS CA | 05/26/202 |
| 232730 | | 05/21/2020 | | | TELEDYNE INSTRUMENTS INC CHICAGO IL | 05/27/202 |
| 232731 | | 05/21/2020 | ! | , | THE OFFICE EXPRESS COSIA MESA CA | 05/29/202 |
| 232732 | | 05/21/2020 | | | VERIZON BUSINESS ALBANY NY | 05/27/202 |
| 232733 | | 05/21/2020 | | ! | ZARETSKY BUILDING SOLUTIONS FOUNTAIN VALLEY CA | 05/27/202 |
| 232734 | | 05/21/2020 | | | ABTECH TECHNOLOGIES INC CARLSBAD CA | 06/03/202 |
| 232735 | | 05/28/2020 | | | AGILENT TECHNOLOGIES INC LOS ANGELES CA | 06/01/202 |
| 232736 | | 05/28/2020 | | | AIRCAS WEST INC PASADENA CA | 06/01/202 |
| 232737 | | 05/28/2020 | | , | ANDERSON, JOHN L CHINO CA | 06/05/202 |
| 232738 | | 05/28/2020 | | ! | BACIEE SYSTEMS INC GRAND FORKS ND | 06/08/202 |
| 232739 | , | 05/28/2020 | | | BAY CITY ELECIRIC WORKS POWAY CA | 06/08/20 |
| 232740 | | 05/28/2020 | | | BIA SOUTHERN CALIFORNIA IRVINE CA | 06/04/202 |
| 232740 | | 05/28/2020 | | | BOOT BARN INC IRVINE CA | 06/03/202 |
| 232741 | | 05/28/2020 | | | BREIG, ANNA VICTORVILLE CA | 06/05/202 |

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CITIZENS BUSINESS BANK

ONTARIO CA 917610000

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| 232743 232744 232745 232746 232747 232748 232749 232750 232751 232752 232753 232755 232755 232756 232755 232755 | 2200107921 2200107953 2200107922 2200107937 2200107945 2200107911 2200107948 2200107920 2200107942 2200107933 2200107924 2200107928 2200107928 2200107928 | 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 | USD | 384.00 1,357.50 227.00 362.12 2,394.06 609.56 63.80 1,185.00 30.54 1,010.82 | BRYCE FASTENER GILBERT AZ CALIF WATER ENVIRONMENT ASSOC OAKLAND CA CAMET RESEARCH, INC. GOLETA CA CHINO BASIN WATER CONSERVATIONMONICLAIR CA CHINO VALLEY UNIFIED SCHOOL DICHINO CA CINIAS CORPORATION LOC#150 PHOENIX AZ CINIAS FIRST AID & SAFETY LOCCINCINNATI OH CITY RENIALS INC ONIARIO CA DAVID WHEELER'S PEST CONIROL, NORCO CA DELL MARKETING L P PASADENA CA DELL SERVICE SALES OAKLAND CA | 06/05/2020 06/10/2021 06/05/2021 06/03/2021 06/02/2021 06/02/2021 06/01/2021 06/01/2021 |
|--|--|--|--|--|--|--|
| 232744 232745 232746 232747 232748 232749 232750 232751 232752 232752 232753 232754 232755 232756 | 2200107921 2200107953 2200107922 2200107937 2200107945 2200107911 2200107948 2200107920 2200107942 2200107933 2200107924 2200107928 2200107928 2200107928 | 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 | USD | 384.00 1,357.50 227.00 362.12 2,394.06 609.56 63.80 1,185.00 30.54 1,010.82 | CALIF WATER ENVIRONMENT ASSOC CAKLAND CA CAMET RESEARCH, INC. GOLETA CA CHINO BASIN WATER CONSERVATIONMONICLAIR CA CHINO VALLEY UNIFIED SCHOOL DICHINO CA CINIAS CORPORATION LOC#150 PHOENIX AZ CINIAS FIRST AID & SAFETY LOCCINCINNATI OH CITY RENTALS INC ONIARIO CA DAVID WHEELER'S PEST CONIROL, NORCO CA DELL MARKETING L P PASADENA CA | 06/05/202 06/03/202 06/02/202 06/02/202 06/01/202 |
| 232745 232746 232747 232748 232749 232750 232751 232752 232753 232753 232754 232755 232756 | 2200107953 2200107922 2200107937 2200107945 2200107934 2200107911 2200107948 2200107920 2200107942 2200107933 2200107924 2200107928 2200107928 2200107915 | 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 | USD | 1,357.50 227.00 362.12 2,394.06 609.56 63.80 1,185.00 30.54 1,010.82 | CAMET RESEARCH, INC. GOLETA CA CHINO BASIN WATER CONSERVATIONMONICIAIR CA CHINO VALLEY UNIFIED SCHOOL DICHINO CA CINIAS CORPORATION LOC#150 PHOENIX AZ CINIAS FIRST AID & SAFETY LOCCINCINNATI OH CITY RENIALS INC ONIARIO CA DAVID WHEELER'S PEST CONIROL, NORCO CA DELL MARKETING L P PASADENA CA | 06/05/202 06/03/202 06/02/202 06/02/202 06/01/202 |
| 232746 232747 232748 232749 232750 232751 232752 232753 232754 232755 232755 232756 | 2200107922 2200107937 2200107945 2200107934 2200107911 2200107948 2200107920 2200107942 2200107933 2200107924 2200107928 2200107915 | 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 | USD | 227.00 362.12 2,394.06 609.56 63.80 1,185.00 30.54 1,010.82 | CHINO BASIN WATER CONSERVATIONMONICIAIR CA CHINO VALLEY UNIFIED SCHOOL DICHINO CA CINIAS CORPORATION LOC#150 PHOENIX AZ CINIAS FIRST AID & SAFETY LOCCINCINNATI OH CITY RENIALS INC ONIARIO CA DAVID WHEELER'S PEST CONIROL, NORCO CA DELL MARKETING L P PASADENA CA | 06/05/202 06/03/202 06/02/202 06/02/202 06/01/202 |
| 232747 232748 232749 232750 232751 232752 232753 232754 232755 232756 | 2200107937 2200107945 2200107934 2200107911 2200107948 2200107920 2200107942 2200107933 2200107928 2200107928 2200107915 | 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 | USD USD USD USD USD USD USD USD | 362.12 2,394.06 609.56 63.80 1,185.00 30.54 1,010.82 | CHINO VALLEY UNIFIED SCHOOL DICHINO CA CINIAS CORPORATION LOC#150 PHOENIX AZ CINIAS FIRST AID & SAFETY LOCCINCINNATI OH CITY RENIALS INC ONIARIO CA DAVID WHEELER'S PEST CONIROL, NORCO CA DELL MARKETING L P PASADENA CA | 06/03/202 06/02/202 06/02/202 06/01/202 |
| 232748 232749 232750 232751 232752 232753 232754 232755 232756 | 2200107945 2200107934 2200107911 2200107948 2200107920 2200107942 2200107933 2200107924 2200107928 2200107915 | 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 | USD USD USD USD USD USD USD | 2,394.06 609.56 63.80 1,185.00 30.54 1,010.82 | CINIAS CORPORATION LOC#150 PHOENIX AZ CINIAS FIRST AID & SAFETY LOCCINCINNATI OH CITY RENIALS INC ONIARIO CA DAVID WHEELER'S PEST CONIROL, NORCO CA DELL MARKETING L P PASADENA CA | 06/02/202 06/02/202 06/01/202 |
| 232749 232750 232751 232752 232753 232754 232755 232756 | 2200107934 2200107911 2200107948 2200107920 2200107942 2200107933 2200107924 2200107928 2200107915 | 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 | USD USD USD USD USD USD | 609.56 63.80 1,185.00 30.54 1,010.82 | CINIAS FIRST AID & SAFETY LOCCINCINNATI OH CITY RENIALS INC ONIARIO CA DAVID WHEELER'S PEST CONIROL, NORCO CA DELL MARKETING L P PASADENA CA | 06/02/202 06/01/202 |
| 232750 232751 232752 232753 232754 232755 232756 | 2200107911 2200107948 2200107920 2200107942 2200107933 2200107924 2200107928 2200107915 | 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 | USD USD USD USD USD | 63.80 1,185.00 30.54 1,010.82 | CTTY RENTALS INC ONTARIO CA DAVID WHEELER'S PEST CONTROL, NORCO CA DELL MARKETING L P PASADENA CA | 06/02/202 06/01/202 |
| 232751 232752 232753 232754 232755 232756 | 2200107948 2200107920 2200107942 2200107933 2200107924 2200107928 2200107915 | 05/28/2020 05/28/2020 05/28/2020 05/28/2020 05/28/2020 | USD USD USD USD | 1,185.00 30.54 1,010.82 | DAVID WHEELER'S PEST CONTROL, NORCO CA DELL MARKETING L P PASADENA CA | 06/01/202 |
| 232752 232753 232754 232755 232756 | 2200107920 2200107942 2200107933 2200107924 2200107928 2200107915 | 05/28/2020 05/28/2020 05/28/2020 05/28/2020 | USD USD USD | 30.54 1,010.82 | DELL MARKETING L P PASADENA CA | |
| 232753 232754 232755 232756 | 2200107942 2200107933 2200107924 2200107928 2200107915 | 05/28/2020 05/28/2020 05/28/2020 | USD USD | 1,010.82 | | |
| 232754 232755 232756 | 2200107933 2200107924 2200107928 2200107915 | 05/28/2020 05/28/2020 | USD | , | | |
| 232755 232756 | 2200107924 2200107928 2200107915 | 05/28/2020 | | | DEPARIMENT OF HOUSING AND SACRAMENTO CA | 06/10/202 |
| 232756 | 2200107928 2200107915 | | TUSD | | DXP ENTERPRISES INC DALLAS TX | 06/01/202 |
| | 2200107915 | | | , | ENVIRONMENTAL EXPRESS CHARLESTON SC | |
| 232131 | | | | | FLUID METERING INC ATLANTA GA | 06/01/202 |
| 232758 | | 05/28/2020 | | , | FONTANA HERALD NEWS FONTANA CA | 06/03/202 |
| 232759 | | 05/28/2020 | | | FOSTER, DONALD CHINO HILLS CA | 06/02/202 |
| 232760 | | 05/28/2020 | |) | FRONTIER COMMUNICATIONS CORP CINCINNATI OH | 06/04/202 |
| 232761 | | 05/28/2020 | | ļ. | HOBBS, DIANA APPLE VALLEY CA | 06/03/202 |
| 232762 | | 05/28/2020 | | | HOME DEPOT CREDIT SERVICES PHOENIX AZ | 06/02/202 |
| 232762 | | 05/28/2020 | | | HORNE, WILLIAM YUCCA VALLEY CA | 06/02/202 |
| 232763 | | 05/28/2020 | | | IDEXX DISTRIBUTION INC WESTBROOK ME | ,, |
| 232765 | | 05/28/2020 | | | INGERSOLL RAND COMPANY CHICAGO IL | 06/05/202 |
| 232766 | | 05/28/2020 | | | ISA RESEARCH TRIANGLE PARK NC | , , , , , , , |
| 232767 | | 05/28/2020 | | | KIM'S MASTER AUTO REPAIR CHINO CA | 06/09/202 |
| 232767 | | 05/28/2020 | | ! | LIEBERT CASSIDY WHITMORE LOS ANGELES CA | 06/04/202 |
| 232769 | | 05/28/2020 | | , | LILLESTRAND LEADERSHIP CONSULTCHINO HILLS CA | 06/04/202 |
| 232770 | | 05/28/2020 | | | LITTLE SISTER'S TRUCK WASH, INBONSALL CA | 06/05/202 |
| 232771 | 2200107934 | 05/28/2020 | TISD | | MARCAB COMPANY INC ONTARIO CA | 06/10/20 |
| 232772 | | 05/28/2020 | | , | MILLER, ELMER L BLUE JAY CA | 50, 50, 50 |
| 232773 | | 05/28/2020 | | ļ. | MISCO WATER FOOTHILL RANCH CA | 06/02/20 |
| 232774 | | 05/28/2020 | | , | ONTARIO MUNICIPAL UTILITIES COONTARIO CA | 06/01/20 |
| 232775 | | 05/28/2020 | | | PANIHER PROTECTION ORANGE CA | 06/02/20 |
| | | 05/28/2020 | | | CUINN COMPANY LOS ANGELES CA | 06/01/20 |
| 232776 | | 05/28/2020 | | ! | RED WING BUSINESS ADVANTAGE DALLAS TX | 06/01/20 |
| 232777 | | 1 1 | 2 | ļ. | RESTEK CORP LANCASTER PA | 06/02/20 |
| 232778 | | 05/28/2020 | | | ROBERT H QUINTERO UPLAND CA | 06/01/20 |
| 232779 | | 05/28/2020 | | | ROSEMOUNT INC CHICAGO IL | 06/01/202 |
| 232780 | | 05/28/2020 05/28/2020 | | | SELIO, RICHARD CHINO HILLS CA | 06/04/20 |
| 232781 | | 3 05/28/2020 3 05/28/2020 | | 1 | SIGMA-ALDRICH INC ATLANIA GA | 06/01/20 |
| 232782 | | 3 05/28/2020 7 05/28/2020 | | | SMITH & LOVELESS INC LENEXA KS | 06/01/20 |
| 232783 | | 7 05/28/2020 3 05/28/2020 | | , | SO CALIF GAS MONTEREY PARK CA | 06/04/20 |
| 232784 | | 3 05/28/2020 3 05/28/2020 | | | SOUTHWEST ALARM SERVICE UPLAND CA | 06/02/202 |
| 232785 232786 | | 3 05/28/2020 3 05/28/2020 | | , | STORETRIEVE LLC PASADENA CA | 06/01/202 |

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| | | TTIZENS BUSII | NESS BA | NK | | ONTARIO CA | 917610000 |
|------------------------|-----------------------|---------------|---------|------------------|---|------------|------------|
| | 122234149 CHECK 2: | 31167641 | | | | | |
| Check | | | | | | | |
| Check number from to | Payment | Pmnt date | Crcy | Amount paid (FC) | Recipient/void reason code | | Enca./void |
| 232787 | 220010796 | 2 05/28/2020 | USD | 1,507.24 | SUPPLY SOLUTIONS CERRITOS CA | | 06/01/202 |
| 232788 | 220010794 | 1 05/28/2020 | USD | 1,279,103.67 | SWRCB ACCOUNTING OFFICE SACRAMENTO CA | | 06/04/202 |
| 232789 | 220010795 | 5 05/28/2020 | USD | 32,455.00 | TECHNICAL SYSTEMS INC LYNNWOOD WA | | 06/02/202 |
| 232790 | 220010797 | 7 05/28/2020 | USD | 300.00 | TENDIDO, LUCY CHINO CA | | 06/01/202 |
| 232791 | 220010795 | 7 05/28/2020 | USD | 95.00 | THE SHREDDERS LOS ANGELES CA | | 06/02/202 |
| 232792 | | 6 05/28/2020 | | 1,855.00 | THOMAS HARDER & CO INC ANAHEIM CA | | 06/05/202 |
| 232793 | 220010794 | 0 05/28/2020 | USD | 3,270.00 | U S BANK NA MINNEAPOLIS MN | | 06/02/202 |
| 232794 | 220010794 | 7 05/28/2020 | USD | 6,701.75 | US BANK VOYAGER FLEET SYSTEMS KANSAS CITY MO | | 06/02/202 |
| 232795 | 220010793 | 0 05/28/2020 | USD | 11,476.27 | VERIZON WIRELESS DALLAS TX | | 06/02/202 |
| 232796 | 220010796 | 1 05/28/2020 | USD | 31,869.50 | WATER SYSTEMS CONSULTING INC SAN LUIS OBISPO CA | | 06/04/202 |
| 232797 | 220010796 | 5 05/28/2020 | USD | 2,425.00 | WESTWATER RESEARCH LLC BOISE ID | | |
| 232798 | 220010796 | 4 05/28/2020 | USD | 27,673.00 | WOODARD & CURRAN INC BOSTON MA | | 06/02/202 |
| 232799 | 220010794 | 3 05/28/2020 | USD | 301.89 | WORLDWIDE EXPRESS PASADENA CA | | 06/01/202 |
| 232800 | 220010795 | 0 05/28/2020 | USD | 7,731.74 | XYLEM WATER SOLUTIONS USA INC CHICAGO IL | | 06/05/202 |
| * Payment method Check | | | USD | 2,571,197.86 | | | |

Total of all entries

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| Check number from to | Payment | Pmnt date | Crcy | Amount paid (FC) | Recipient/void reason code | Enca./void |
|----------------------|---------|-----------|------|------------------|----------------------------|------------|
| ** | | | USD | 2,571,197.86 | | |

Attachment 2B

Workers' Comp Checks

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1

Bank CBB CITIZENS BUSINESS BANK ONTARIO CA 917610000 Bank Key Acct number 122234149

Checks created manually

WOOMP

| Check number from to | Payment | Pmnt date | Crcy | Amount paid (FC) | Recipient/void reason code | Enca./void |
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| 05403 | 2200108092 | 05/06/2020 | USD | 90.00 | YORK RISK SERVICES GROUP INC RANCHO CUCAMONGA CA | 05/12/2020 |
| 05404 | 2200108093 | 05/06/2020 | USD | 79.39 | YORK RISK SERVICES GROUP INC RANCHO CUCAMONGA CA | 05/15/2020 |
| 05405 | 2200108094 | 05/06/2020 | USD | 115.54 | YORK RISK SERVICES GROUP INC RANCHO CUCAMONGA CA | 05/11/2020 |
| 05406 | | 05/06/2020 | | 4.00 | YORK RISK SERVICES GROUP INC RANCHO CUCAMONGA CA | 05/13/2020 |
| 05407 | 2200108096 | 05/06/2020 | USD | 495.12 | YORK RISK SERVICES GROUP INC RANCHO CUCAMONGA CA | 05/08/2020 |
| 05408 | | 05/06/2020 | | 925.50 | YORK RISK SERVICES GROUP INC RANCHO CUCAMONGA CA | 05/13/2020 |
| 05409 | | 05/06/2020 | | 2,967.58 | YORK RISK SERVICES GROUP INC RANCHO CUCAMONGA CA | 05/11/2020 |
| 05410 | 2200108099 | 05/06/2020 | USD | 145.00 | YORK RISK SERVICES GROUP INC RANCHO CUCAMONGA CA | 05/11/2020 |
| 05411 | 2200108100 | 05/06/2020 | USD | 90.00 | YORK RISK SERVICES GROUP INC RANCHO CUCAMONGA CA | 05/11/2020 |
| 05412 | | 05/06/2020 | | 462.90 | YORK RISK SERVICES GROUP INC RANCHO CUCAMONGA CA | 05/11/2020 |
| 05413 | 2200108102 | 05/06/2020 | USD | 117.38 | YORK RISK SERVICES GROUP INC RANCHO CUCAMONGA CA | 05/11/2020 |
| 05414 | 2200108103 | 05/06/2020 | USD | 20.28 | YORK RISK SERVICES GROUP INC RANCHO CUCAMONGA CA | 05/11/2020 |
| 05415 | 2200108104 | 05/13/2020 | USD | 90.00 | YORK RISK SERVICES GROUP INC RANCHO CUCAMONGA CA | 05/19/2020 |
| 05416 | | 05/13/2020 | | 488.48 | YORK RISK SERVICES GROUP INC RANCHO CUCAMONGA CA | 05/22/2020 |
| 05417 | 2200108106 | 05/13/2020 | USD | 856.18 | YORK RISK SERVICES GROUP INC RANCHO CUCAMONGA CA | 05/21/2020 |
| 05418 | 2200108107 | 05/13/2020 | USD | 158.40 | YORK RISK SERVICES GROUP INC RANCHO CUCAMONGA CA | 05/19/2020 |
| 05419 | | 05/13/2020 | | 171.94 | YORK RISK SERVICES GROUP INC RANCHO CUCAMONGA CA | 05/19/2020 |
| 05420 | 2200108109 | 05/20/2020 | USD | 291.15 | YORK RISK SERVICES GROUP INC RANCHO CUCAMONGA CA | 05/28/2020 |
| 05421 | 2200108110 | 05/20/2020 | USD | | YORK RISK SERVICES GROUP INC RANCHO CUCAMONGA CA | 05/27/2020 |
| 05422 | 2200108111 | 05/20/2020 | USD | | YORK RISK SERVICES GROUP INC RANCHO CUCAMONGA CA | |
| 05423 | | 05/27/2020 | | | YORK RISK SERVICES GROUP INC RANCHO CUCAMONGA CA | |
| 05424 | 2200108113 | 05/27/2020 | USD | 174.03 | YORK RISK SERVICES GROUP INC RANCHO CUCAMONGA CA | |
| Payment method Checks cr | reated manually | | USD | 8,503.96 | | |

Total of all entries

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| Check number from to | Payment | Pmnt date | Crcy | Amount paid (FC) | Recipient/void reason code | Enca./void |
|----------------------|---------|-----------|------|------------------|----------------------------|------------|
| ** | | | USD | 8,503.96 | | |

Attachment 2C

Vendor ACHs

| | /01/20 2 0 ~ 05/31/2020 | Treasurer Report | | 16.2 |
|-------|--|-------------------------|----------------------------|-----------------------|
| Check | Payee / Description | | | Amount |
| ACH | AQUA BEN CORPORATION | | | |
| | RP1-23,000 Lbs Hydro DAFT-4,600 Lbs Hydro | | 40364 40363 | 29,243.35 4,460.85 |
| | RP2-23,000 Lbs Hydro | floc 748E | 40370 | 22,304.25 |
| | | AQUA BEN CORPORATION | \$ | 56,008.45 |
| ACH | CHARLES P CROWLEY CO | | | |
| | Evalation of 5hp Uni | t,Power Cord | 26816 | 1,645.34 |
| | | CHARLES P CROWLEY CO | \$ | 1,645.34 |
| ACH | FISHER SCIENTIFIC | | | |
| | Microdidst Tube | d Eroo | 6878600 6878602 | 1,078.44 268.63 |
| | Flasks, Hach Total an | ottles,,Buffer Red,B | | 1,060.67 |
| | Lab Standard | occies, parier nea, s | 7155690 | 55.16 |
| | Buffer Blue | | 7155691 | 136.07 |
| | | FISHER SCIENTIFIC | \$ | 2,598.97 |
| ACH | ROYAL INDUSTRIAL SOL | UTIONS | | |
| | Battery Cart | | 6046-679508 | 85.56 |
| | Midget TD Fuses | urcing Module, Termin | 6046-679649 | 32.00 3,170.10 |
| | Conduit.Wire.Connect | ors, Clamps, Bodies, Co | 6046-679564 | 1,236.64 |
| | APC Smart UPS | <u> </u> | 6046-679444 | 3,084.80 |
| | Molex Cord Reel | | 6046-677461 | 2,524.75 |
| | MCP Circuit Breaker, | CB Handle Kit, Termin | 6046-679294 | 2,198.95 |
| | Fan | urcing Module, Termin | 6046-679577 | 3,181.51 145.46 |
| | | g Lites, Connectors, R | | 600.51 |
| | Covers | - | 6046-679980 | 25.62 |
| | Wallpack Lights | | 6046-679936 | 287.24 |
| | Arc Flash Face Shiel | as | 6046-679104 6046-679485 | 524.99 405.33 |
| | Float Switches Sealtight Connectors | ,Flex Connectors,Liq | | 3,432.51 |
| | Fan | 711011 001110000010,4 | 6046-679576 | 145.46 |
| | Reducer Washers | | 6046-680557 | 1.44 |
| | Deluxe Cord Grip | 36 - In | 6046-680192 | 198.53 |
| | Milliamp Process Cla | | 6046-680099 6046-679957 | 1,570.29 193.62 |
| | Lamps, Connectors, Red PVC Conduit | lucers | 6046-680081 | 48.49 |
| | Printer Kit, Labels | | 6046-680008 | 316.68 |
| | Wallpack Lights | | 6046-679937 | 287.24 |
| | | ROYAL INDUSTRIAL SOLU | UTIONS \$ | 23,697.72 |
| ACH | PACIFIC PARTS & CONT | ROLS | 7404950 | 0 500 00 |
| | VFD Startup | | I434750 | 2,560.00 |
| | | PACIFIC PARTS & CONTI | ROLS \$ | 2,560.00 |
| ACH | ENVIRONMENTAL RESOUR | CES ASSOC | 001610 | 100 01 |
| | Halomethanes | | 931610 | 182.01 139.76 |
| | Silica | | 934442 | T39./6 |
| | | ENVIRONMENTAL RESOUR | ana raaca d | 321.77 |

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| Check | Payee / Description | l . | | | Amount |
| ACH | GENESIS CONSTRUCTIO EN19001-Frnsh & Ins | N tll Crshd Misc Base GENESIS CONSTRUCTION | | | 37,854.00 37,854.00 |
| ACH | THATCHER COMPANY OF TP1-45,060 Lbs Alum TP1-45,240 Lbs Alum | inum Sulfate | 273688 273682 CALIFORNIA\$ | | 3,613.80 3,655.10 7,268.90 |
| ACH | ENVIRONMENTAL CONSU 3 Liter YCT | LTING & TES ENVIRONMENTAL CONSUL: | 127 FING & TES\$ | | 96.00 96.00 |
| ACH | CAROLLO ENGINEERS EN17110/EN17043-3/2 | 020-Professional Srvs | 0186091 | - | 14,902.95 14,902.95 |
| ACH | MCMASTER-CARR SUPPL 90 Spray Nozzles | Y CO MCMASTER-CARR SUPPLY | 38937031 CO \$ | | 1,428.39 1,428.39 |
| ACH | PALM AUTO DETAIL IN 3/20 Carwash Svcs f | IC /Agency Fleet Vehicle PALM AUTO DETAIL INC | | | 2,295.00 2,295.00 |
| ACH | ALFA LAVAL INC Long Arm Paddle | ALFA LAVAL INC | 280020835 | <u> </u> | 644.67 644.67 |
| ACH | O I ANALYTICAL CORF | | 238201 | # - | 43.33 |
| ACH | FcltMgmtRP1-Hazmat CCWRP-2/25 Vac Pump FcltMgmtRP1-Hazmat FcltMgmtRP2-Hazmat | Dspsl Rmvl-E-Wst,Flmm Dspsl Rmvl-Auto Bttrs Drnsprt Lqd Wst RP2 Dspsl Rmvl-Waste Oil- Dspsl Rmvl-Methane Fi Dspsl Rmvl-Waste Oil | KS2001244 KS2002184 KS2003083 KS2003191 KS2003157 | | 1,704.98 1,241.16 2,586.25 263.14 731.60 364.92 |
| ACH | A & G INSTRUMENT SE Onsite Calibration | of Flow Meters | 38155 | | 1,580.20 |
| ACH | INSIDE PLANTS INC FcltyMgt/Lab-4/20 I | A & G INSTRUMENT SER | VICE \$ | | 1,580.20 |

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|------------------|--|--|--|
| Check | Payee / Description | | Amoun |
| | INSIDE PLANTS INC | \$ | 636.00 |
| ACH | RSD Valve Actuators,Ball Valves,Swoosh Drain Filters Pleated Filters | 55320408-00 55319463-00 55321496-00 | 617.78 566.59 819.24 2,003.61 |
| ACH | PEST OPTIONS INC March 2020 GWR Weed Abatement Services | 346581 | 8,531.84 |
| | PEST OPTIONS INC | \$ | 8,531.84 |
| ACH * | OLIN CORP RP4-4,976 Gals Sodium Hypochlorite RP5-4,892 Gals Sodium Hypochlorite RP5-4,846 Gals Sodium Hypochlorite RP5-4,912 Gals Sodium Hypochlorite RP5-4,940 Gals Sodium Hypochlorite | 2816760 2809308 2811421 2812758 2815100 | 4,000.70 3,933.17 3,896.18 3,949.25 3,971.76 |
| | OLIN CORP | \$ | 19,751.06 |
| ACH | ALLIED UNIVERSAL SECURITY SERV January 2020 Monthly Patrol Service February 2020 Monthly Patrol Service March 2020 Monthly Patrol Service | 9932425 9945835 9945867 | 11,274.08 11,274.08 11,274.08 |
| | ALLIED UNIVERSAL SECT | JRITY SERV\$ | 33,822.24 |
| ACH | KAMBRIAN CORPORATION ISS-lyr Office Pro Plus Lics APK OLV DSL | KINV4531 | 4,540.00 |
| | KAMBRIAN CORPORATION | \$ | 4,540.00 |
| ACH | SIEMENS INDUSTRY INC Radar Level Transmitter | 5604247564 | 3,299.31 |
| | SIEMENS INDUSTRY INC | \$ | 3,299.3 |
| ACH | DOWNS ENERGY RP5-589.80 Gals Red Dyed Diesel Fuel | 0263337-IN | 1,104.0 |
| | DOWNS ENERGY | \$ | 1,104.0 |
| ACH | EUROFINS EATON ANALYTICAL LLC 3/31/2020 Water Sample Analysis Invoice L0435698 Overcharge Credit Invoice L0436278 Overcharge Credit Invoice L0458859 Overcharge Credit Invoice L0436279 Overcharge Credit Invoice L0435698 Overcharge Credit Invoice L0456325 Overcharge Credit Invoice L0448946 Overcharge Credit Invoice L0458861 Overcharge Credit Invoice L0458212 Overcharge Credit Invoice L0456525 Overcharge Credit Invoice L0456525 Overcharge Credit | L0505362 I0508901 I0508912 I0508932 I0508930 I0508933 I0508933 I0509137 I0509139 I0509140 | 650.00 50.00 50.00 50.00 50.00 50.00 100.00 50.00 |

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| Check | Payee / Description | 1 | | Amour |
| | Invoice L0458864 Ov Invoice L0457136 Ov Invoice L0457138 Ov 4/9/2020 Water Samp 4/8/2020 Water Samp 4/8/2020 Water Samp | vercharge Credit vercharge Credit ble Analysis ble Analysis ble Analysis | I0509142 I0509144 I0509150 L0506066 L0506065 L0506063 | 50.00 50.00 50.00 30.00 200.00 |
| | | EUROFINS EATON ANALY | FICAL LLC \$ | 110.00 |
| ACH | ELECTRO-CHEMICAL DE Total CL2 Sensor,El | WICES, INC Lectrode PH Gen Purpos | 70069 | 9,453.49 |
| | | ELECTRO-CHEMICAL DEV | ICES, INC \$ | 9,453.49 |
| ACH | MICROAGE Cisco Catalyst Swit | cch | 2103464 | 1,018.24 |
| | | MICROAGE | \$ | 1,018.24 |
| ACH | D & H WATER SYSTEMS 2 Water Champs | SINC | I2020-0398 | 49,999.27 |
| | | D & H WATER SYSTEMS | INC \$ | 49,999.27 |
| ACH | TRIPEPI SMITH AND A 3/1-3/31 Ad Hoc Cre 3/1-3/31 Drought Cr 2/1-2/29 Drought Cr 2/1-2/29 Ad Hoc Cre 1/1-1/31 Website Bu | eative Work reative Work reative Work eative Work | 4957 4956 4853 4852 4751 | 488.79 981.78 923.79 617.41 4,525.00 |
| | | TRIPEPI SMITH AND AS: | SOCIATES I\$ | 7,536.7 |
| ACH | ARCADIS U.S., INC. WR18028-2/2020 Prof | fessional Services | 34155974 | 21,916.33 |
| | | ARCADIS U.S., INC. | \$ · | 21,916.33 |
| ACH | PREMIUM PROMOTIONAL 27 Mens & 14 Ladies | LS s Long Sleeve TShirts | 2002069 | 754.5 |
| | | PREMIUM PROMOTIONALS | \$ | 754.53 |
| ACH | FERREIRA COASTAL CO EN20015-3/20 Pay Es EN20014-3/20 Pay Es | st 1 | PE 1-EN20015 PE 1-EN20014 | 117,626.15 24,696.20 |
| | | FERREIRA COASTAL CON | STRUCTION \$ | 142,322.35 |
| ACH | WEST COAST ADVISORS 4/20 Prof Svcs | | 12707 | 9,800.00 |
| | | WEST COAST ADVISORS | \$ | 9,800.00 |
| ACH | WALLACE & ASSOCIATE 4600002051-3/2-3/29 | ES CONSULTIN Prof Svcs | 2020-03-IEUA | 17,400.00 |
| | | | | |

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| Check | Payee / Description | | | | Amount |
| ACH | JC LAW FIRM 3/20 IEUA vs Spicer- 3/20 General Legal 3/20 RCA Legal 3/20 San Bernardino 3/20 Romero vs IEUA 3/20 Watermaster 3/20 Regional Contra | Transit Auth vs IEUA | 0720 0726 0727 0732 0731 0730 0728 | | 9,690.00 33,180.00 180.00 210.00 120.00 6,600.00 4,560.00 |
| | | JC LAW FIRM | \$ | | 54,540.00 |
| ACH | AMAZON BUSINESS Maintenance Best Pra 10 Gate Warning Sign Surge Protector Powe | actices Books ns Not Shipped er Strip Not Shipped | 1Y4N-CR3N-LR1 16VT-7JW9-HQ6 1HPN-W7P1-J3M | | 170.31 77.05- 53.80- |
| | • | AMAZON BUSINESS | \$ | | 39.46 |
| ACH | WESTLAND GROUP INC RA17007-1/1-2/14 Pro | of Svcs | 16723 | | 3,365.00 |
| | | WESTLAND GROUP INC | \$ | | 3,365.00 |
| ACH | SCHULER CONSTRUCTORS EN17045-3/1-3/23 Pro | | C1917-1 | | 9,213.53 |
| | | SCHULER CONSTRUCTORS | INC \$ | | 9,213.53 |
| ACH | CASCADE DRILLING LP RW19002-4/2020 Profe | essional Services | 12036705 | | 7,458.75 |
| | | CASCADE DRILLING LP | \$ | | 7,458.75 |
| ACH | RBC RESOURCES WR20028/WR20029-3/1 | -3/31 Prof Svcs | 15 | | 4,046.00 |
| | | RBC RESOURCES | \$ | | 4,046.00 |
| ACH | BUCKNAM INFRASTRUCT EN20038-3/2020 Profe EN20038-1/2020 Profe | essional Services | 358-01.08 358-01.06 | | 3,911.25 9,070.32 |
| | | BUCKNAM INFRASTRUCTU | RE GROUP I\$ | | 12,981.57 |
| ACH | MOMENTUM EN19001-3/2020 RP5 | Blueprint Project | MV-1191 | | 857.50 |
| | | MOMENTUM | \$ | | 857.50 |
| ACH | SO CALIF EDISON TrnrBsnRW-3/30-4/28 Trnr3&4-3/30-4/28 9 8thStBsn-3/27-4/27 CCWRP/TP-3/27-4/27 RP2MntLnchRm-4/1-5/ RP1-4/1-5/1 2450 Ph RP1StLts-4/1-5/1 34 SnSvn5PmpStn-3/31-4 PrdLS-3/31-4/29 34 | 16 Archibald Ave 1180 8th St 14950 Telephone Ave 1 16400 El Prado Rd ila St Phila /29 13785 Banyan | 3026143801 4/ 3024859341 4/ 3024625308 4/ 3018402051 4/ 3015770035 4/ 3016879871 4/ 3010508278 4/ 3049769445 4/ 3001323339 4/ | | 14.78 41.40 59.94 65.81 273.80 117.24 17.74 6,557.03 48.06 |

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| | RP5/TP5/HQA/B-3/2-3/ CCWRP/TP/RWPS-3/27-4 PrdDchlStn-3/31-4/29 | /31 6075 Kimball Ave 1/27 14950 Telephone 3 34 Johnson-Pine | 3023582932 3/ 3010610784 4/ 3043797988 4/ | | 94,363.75 27,546.28 728.21 |
| | | SO CALIF EDISON | \$ | : | 129,834.04 |
| ACH | IEUA EMPLOYEES' ASSO P/R DIR 5 5/8/20 Emp P/R 10 5/8/20 Employ | ployee Ded | HR 0088100 HR 0088200 | | 12.00 210.00 |
| | | IEUA EMPLOYEES' ASSO | CIATION \$ | | 222.00 |
| ACH | IEUA SUPERVISORS UN P/R 10 5/8/20 Employ | | HR 0088200 | | 330.00 |
| | | IEUA SUPERVISORS UNI | ON ASSOCIA\$ | | 330.00 |
| ACH | IEUA GENERAL EMPLOYI P/R 10 5/8/20 Employ | | HR 0088200 | | 1,106.60 |
| | | IEUA GENERAL EMPLOYE | ES ASSOCIA\$ | | 1,106.60 |
| ACH | IEUA PROFESSIONAL ET P/R 10 5/8/20 Employ | | HR 0088200 | | 576.00 |
| | | IEUA PROFESSIONAL EM | PLOYEES AS\$ | | 576.00 |
| ACH | DISCOVERY BENEFITS : P/R 10 5/8/20 Cafete | | HR 0088200 | | 4,175.26 |
| | | DISCOVERY BENEFITS I | NC \$ | | 4,175.26 |
| ACH | PATRICK W HUNTER P/R 10 5/8/2020 | | HR 0088200 | | 248.50 |
| | | PATRICK W HUNTER | \$ | | 248.50 |
| ACH | FRESQUEZ, ADRIAN Reim-3/27/20,3/29/20 | O OT Meals | 3/27,29 OT ME | ! | 17.64 |
| | | FRESQUEZ, ADRIAN | . \$ | | 17.64 |
| ACH | MCCHRISTY, KAREN Reim-4/15/20 Printe | r Ink,Folders | 4/15/20 OFF S | | 95.71 |
| | | MCCHRISTY, KAREN | \$ | | 95.71 |
| ACH | POMPA, JESSE Reim-PMI 2020 Certi: | ficate Renewal | 2020 PMI CERT | | 60.00 |
| | | POMPA, JESSE | \$ | | 60.00 |
| ACH | RECINTO, SARAH Reim-WEF 2020 Membe | rship Renewal | WEF 2020 MEME | 3 | 49.00 |
| | | RECINTO, SARAH | \$ | _ | 49.00 |
| | | | | | |

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|----------|--|--|---|------------|---|
| | DAFT-4,600 Lbs Hydro | | 40435 | | 4,460.85 |
| | 212 1,000 220 11,000 | AQUA BEN CORPORATION | \$ | | 33,704.20 |
| | | AQUA BEN CORFORATION | Y | | 33,701.20 |
| ACH | FISHER SCIENTIFIC Pesticide Stablcal Ampule Kit Bottle Poly Cyl 160 Water Sampling Bags Broken Glass Floor, | Alum Dish | 7328340 7576856 7328341 7513467 7651957 | | 448.41 472.45 216.64 561.49 272.82 |
| | | FISHER SCIENTIFIC | ਮ | | |
| ACH | HASCO OIL COMPANY, RP5Mnt-Mobil SHC Ra | | 0232488-IN | | 363.63 |
| | | HASCO OIL COMPANY, IN | NC. \$ | | 363.63 |
| ACH | LED Light Fixtures APC Smart UPSs Twin Head Emerg Lit Wire, Molded Case Ci EN19001-3/10-4/9 Pr Wire Solenoid Valves Hacksaw Blade Signaling Module, LE Coated Conduit Bodi | essed Plug, Coupling, R es rcuit, Enclosure, Flex oject Mgmt/Onsite Eng Ds, Base | 6046-679181 6046-679544 6046-680098 6046-680072 6046-680563 6046-680563 6046-680360 6046-680794 6046-680739 6046-680829 6046-680142 | | 26.14 1,470.91 1,630.83 213.00 3,672.64 3,247.43 668.05 615.94 38.07 463.72 194.08 1,589.87 13,830.68 |
| T) CTT | CANTER AND MATERIALED | | | | |
| ACH ' | SANTA ANA WATERSHED March 2020 Truck Di March 2020 Service | | 9686 9692 | | 4,221.57 82,166.75 |
| | | SANTA ANA WATERSHED | \$ | | 86,388.32 |
| ACH | UNDERGROUND SERVICE 2019 Dig Safe Board March 2020-285 Dig | CA Regulatory Fee - | DSB20191515 320200329 | | 338.67 480.25 |
| | | UNDERGROUND SERVICE | ALERT/SC \$ | | 818.92 |
| ACH | 1/20 Mosquito Contr | TO AND ol f/WW Trtmnt Facili ol f/WW Trtmnt Facili ol f/WW Trtmnt Facili | 2543 | . - | 604.24 612.18 1,145.07 |
| | | WEST VALLEY MOSQUIT | \$ dna c | | 2,361.49 |
| ACH | DEZURIK INC | | RPI/66005335 | | 485.96 |
| ACII | Plugs,Gaskets | | , | | |

| EN17049-11/2019 Pro MCMASTER-CARR SUPPL | essional Services essional Svcs rofessional Services | 0185931 0184997 | Page Date | 06/13/2020 Amount 746.80 3,098.40 |
|--|--|---|---|---|
| EN19051-3/2020 Profe EN17049-2/2020 Profe 4600002677-3/2020 Profe EN17049-11/2019 Pro | essional Services essional Svcs rofessional Services fessional Svcs | 0184997 0186419 | | 746.80 3,098.40 |
| EN17049-2/2020 Profe 4600002677-3/2020 Profe EN17049-11/2019 Profe MCMASTER-CARR SUPPL | essional Svcs rofessional Services fessional Svcs | 0184997 0186419 | | 3,098.40 |
| | CAROLLO ENGINEERS | | | 4,326.45 6,937.30 |
| | | \$ | | 15,108.95 |
| High Flow Muffler | Y CO | 39017786 | | 63.11 |
| | MCMASTER-CARR SUPPLY | CO \$ | | 63.11 |
| WILLIAMS SCOTSMAN I PL19005-5/7-6/6 Chi | NC no Basin Project Trai | 7767238 | | 2,171.46 |
| | WILLIAMS SCOTSMAN INC | C \$ | | 2,171.46 |
| ALFA LAVAL INC 5 Steering Paddle Wear Pad, Steering | W/Long Arm Paddle | 280023633 280021173 | | 3,190.00 1,389.09 |
| | ALFA LAVAL INC | \$ | | 4,579.09 |
| CASC ENGINEERING AN EN17042-1/2020 Prof | | 0041766 | | 2,215.00 |
| | CASC ENGINEERING AND | CONSULTIN\$ | | 2,215.00 |
| HACH COMPANY TP4Mnt-Process Vial | ,Mnt Case | 11906098 | | 1,236.61 |
| | HACH COMPANY | \$ | | 1,236.61 |
| TRUSSELL TECHNOLOGI SrcCntrl-2/1-3/31 N EC-3/1-3/31 RP1/RP4 | ES INC RWS Solids Discrepanc Free Chlorine Disinf | 0000007260 0000007242 | | 5,306.45 17,191.25 |
| | TRUSSELL TECHNOLOGIES | S INC \$ | | 22,497.70 |
| NATIONAL CONSTRUCTI 4/17/20-5/14/20 Pot | ON RENTALS ty/Handicap Potty/Sin | 5720827 | | 994.80 |
| | NATIONAL CONSTRUCTION | N RENTALS \$ | | 994.80 |
| TP1-4,898 Gals Sodi TP1-4,866 Gals Sodi TP1-4,836 Gals Sodi TP1-4,894 Gals Sodi TP1-4,926 Gals Sodi TP1-4,918 Gals Sodi | um Hypochlorite | 2810423 2809852 2809309 2808232 2810842 2807747 2807344 2804468 2804866 2806878 | | 3,960.50 3,942.82 3,937.99 3,912.26 3,888.14 3,934.78 3,960.50 3,954.07 3,865.63 3,989.45 3,929.95 |
| TTTTTT | P1-4,898 Gals Sodi P1-4,866 Gals Sodi P1-4,836 Gals Sodi P1-4,894 Gals Sodi P1-4,926 Gals Sodi P1-4,918 Gals Sodi P1-4,808 Gals Sodi | P1-4,904 Gals Sodium Hypochlorite P1-4,898 Gals Sodium Hypochlorite P1-4,866 Gals Sodium Hypochlorite P1-4,836 Gals Sodium Hypochlorite P1-4,894 Gals Sodium Hypochlorite P1-4,926 Gals Sodium Hypochlorite P1-4,918 Gals Sodium Hypochlorite P1-4,808 Gals Sodium Hypochlorite P1-4,962 Gals Sodium Hypochlorite | P1-4,898 Gals Sodium Hypochlorite 2809309 P1-4,866 Gals Sodium Hypochlorite 2808232 P1-4,836 Gals Sodium Hypochlorite 2810842 P1-4,894 Gals Sodium Hypochlorite 2807747 P1-4,926 Gals Sodium Hypochlorite 2807344 P1-4,918 Gals Sodium Hypochlorite 2804468 P1-4,808 Gals Sodium Hypochlorite 2804866 P1-4,962 Gals Sodium Hypochlorite 2806878 | P1-4,898 Gals Sodium Hypochlorite 2809309 P1-4,866 Gals Sodium Hypochlorite 2808232 P1-4,836 Gals Sodium Hypochlorite 2810842 P1-4,894 Gals Sodium Hypochlorite 2807747 P1-4,926 Gals Sodium Hypochlorite 2807344 P1-4,918 Gals Sodium Hypochlorite 2804468 P1-4,808 Gals Sodium Hypochlorite 2804866 |

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| ACH | GK & ASSOCIATES 46-2849-3/20 Prof Svcs-WO 46-2849-3/20 Prof Svcs-RH 46-2849-3/20 Prof Svcs-RG | 20-024 20-025 20-026 | 14,774.00 26,259.60 14,608.00 |
| | GK & ASSOCIATES | \$ | 55,641.60 |
| ACH | ADVANCED CHEMICAL TECHNOLOGY I 4/1/2020 Wtr Treatment Svc f/RP1,RP2,RP5 | 0330445-IN | 445.00 |
| | ADVANCED CHEMICAL TE | CHNOLOGY I\$ | 445.00 |
| ACH | ATOM ENGINEERING CONSTRUCTION EN20042-3/2020 Professional Services | 721 | 16,398.00 |
| | ATOM ENGINEERING CON | STRUCTION \$ | 16,398.00 |
| ACH | 3/12/2020 Water Sample Analysis 4/8/2020 Water Sample Analysis 3/10/2020 Water Sample Analysis 4/8/2020 Water Sample Analysis 4/15/2020 Water Sample Analysis 4/14/2020 Water Sample Analysis 3/18/2020 Water Sample Analysis | L0507268 L0506247 L0506263 L0506241 L0506490 L0507266 L0507265 L0507243 L0506749 L0506491 | 15.00 9,080.00 200.00 15,285.00 650.00 30.00 4,140.00 30.00 975.00 |
| | EUROFINS EATON ANALY | TICAL LLC \$ | 30,435.00 |
| ACH | EPI-USE AMERICA INC 3/2020 HCM Consulting | 263910383 | 1,550.00 |
| | EPI-USE AMERICA INC | \$ | 1,550.00 |
| ACH | CALIFORNIA WATER TECHNOLOGIES RP2-17,539 lbs Ferric Chloride Solution RP1-16,955 lbs Ferric Chloride Solution RP1-16,805 lbs Ferric Chloride Solution CCWRP-16,515 lbs Ferric Chloride Solution CCWRP-18,398 lbs Ferric Chloride Solution RP2-17,564 lbs Ferric Chloride Solution RP2-17,328 lbs Ferric Chloride Solution CCWRP-18,048 lbs Ferric Chloride Solution CCWRP-18,048 lbs Ferric Chloride Solution RP2-16,724.5 lbs Ferric Chloride Solution RP2-17,094 lbs Ferric Chloride Solution RP2-17,096 lbs Ferric Chloride Solution RP2-17,706 lbs Ferric Chloride Solution RP2-17,057 lbs Ferric Chloride Solution RP2-17,057 lbs Ferric Chloride Solution | 37261 37245 37039 36845 36521 36691 37249 36606 37223 37173 37068 36887 | 5,535.64 5,351.11 5,303.95 5,212.35 5,806.70 5,543.32 5,469.00 5,696.24 5,278.50 5,395.13 5,827.26 5,588.23 5,383.29 5,441.85 |
| | CALIFORNIA WATER TEC | CHNOLOGIES \$ | 76,832.57 |
| ACH | V3IT CONSULTING INC SAP BASIS March 2020 Support SAP March 2020 Support | V3IT2020IEUA(V3IT2020IEUA(| 6,184.00 636.00 |

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|------------------|--|------------|--|
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| | V3IT CONSULTING INC \$ | | 6,820.00 |
| ACH | MANAGED MOBILE INC Repair Parts/Labor for Agency Vehicles IN00-0196441 Repair Parts/Labor for Agency Vehicles IN00-0196249 Repair Parts/Labor for Agency Vehicles IN00-0195657 Repair Parts/Labor for Agency Vehicles IN00-0197520 Repair Parts/Labor for Agency Vehicles IN00-0197518 Repair Parts/Labor for Agency Vehicles IN00-0197148 Repair Parts/Labor for Agency Vehicles IN00-0197693 Repair Parts/Labor for Agency Vehicles IN00-0197149 Repair Parts/Labor for Agency Vehicles IN00-0197147 | | 738.07 2,706.22 333.91 171.36 171.36 161.20 323.86 161.20 161.20 |
| | MANAGED MOBILE INC \$ | | 4,928.38 |
| ACH | CSI SERVICES INC EN17042-1/2020-2/2020 Professional Servi 9663 | | 7,870.00 |
| | CSI SERVICES INC \$ | | 7,870.00 |
| ACH | AMAZON BUSINESS 8 Expansion Springs 1WC6-WK1P-KDL | | 77.52 |
| | AMAZON BUSINESS \$ | | 77.52 |
| ACH | PRO-CRAFT CONSTRUCTION INC EN19001-2/18 Water/Sewer Hookups f/Cnstr 18002-17 | - - | 9,446.66 |
| | PRO-CRAFT CONSTRUCTION INC \$ | | 9,446.66 |
| ACH | JWC ENVIRONMENTAL LLC CCWRPMnt-Tank WSeld Inlet,Tariff Charge 101895 | | 14,735.81 |
| | JWC ENVIRONMENTAL LLC \$ | | 14,735.81 |
| ACH | WESTLAND GROUP INC EN15012-11/30-2/29 Prof Svcs 17026 EN15012-9/11-11/30 Prof Svcs 16199R | | 2,415.00 18,447.50 |
| | WESTLAND GROUP INC \$ | | 20,862.50 |
| ACH | ALL CAL EQUIPMENT SERVICES INC Annual Certification, Inspection 59305 | | 975.00 |
| | ALL CAL EQUIPMENT SERVICES INC\$ | | 975.00 |
| ACH | REDWOOD ENERGY STORAGE LLC 3/20 RP1/RP5/CCWRP Energy Storage System 17 | | 9,975.33 |
| | REDWOOD ENERGY STORAGE LLC \$ | | 9,975.33 |
| ACH | REDWOOD ENERGY STORAGE II LLC 3/7/20-4/7/20 RP4 Energy Storage System 13 | | 27,225.33 |
| | REDWOOD ENERGY STORAGE II LLC \$ | | 27,225.33 |
| ACH | SO CALIF EDISON ZnRsvr-4/6-5/6 12749 6th St RP4-4/6-5/6 12811 6th St 3032567404 4/ 3012355379 4/ | | 175.43 324.11 |

| Report For 05 | : ZFIR TREASURER Inland Empire Utilities 5/01/2020 ~ 05/31/2020 Treasurer Report | Agency | Page 11 Date 06/13/2020 |
|------------------|---|---|--|
| Check | Payee / Description | | Amount |
| | BnaBsn-4/7-5/7 14017 Whittram Ped 30 CllgHgts/LwrDy/RP3Bsn/TrnrBsnl-3/31-4/29 22 RP4/TP4/RCA-4/6-5/6 12811 6th St 30 1630WPmpStn-3/27-4/27 1530 6th St 30 JrpBsn-4/7-5/7 13450 Jurupa 30 RP1-4/6-5/6 2450 Phila St 30 RP5/TP5/HOA/B-3/31-4/29 6075 Kimball Ave 30 DclzBsn-4/2-5/4 13978 Phila 30 | 13233596 4/ 38839479 4/ 25480073 4/ 01323341 4/ 23582932 4/ 24668725 4/ 27477844 4/ | 46.11 31.24 250.50 143,766.74 3,769.52 2,428.35 96,425.42 103,629.04 68.55 28.51 51.27 |
| | SO CALIF EDISON | \$ | 350,994.79 |
| ACH | SHELL ENERGY NORTH AMERICA LP 4/20 Gas Cmmdty-Core,2/20 Adj 11 | 00002880404 | 2,046.40 |
| | SHELL ENERGY NORTH AMER | ICA LP \$ | 2,046.40 |
| ACH | SHELL ENERGY NORTH AMERICA LP RP1/RP2/RP5/CCWRP-3/1-3/31 Power Usage 20 | 2003 | 165,095.82 |
| | SHELL ENERGY NORTH AMER | CICA LP \$ | 165,095.82 |
| ACH | | 2M0613-3484 2M0614-3484 2M0615-3484 2M0616-3484 | 19,139.76 17,977.46 |
| | SOLAR STAR CALIFORNIA V | LLC \$ | 47,148.52 |
| ACH | FOUNDATION HA ENERGY GENERATIO RP4/RWPS-3/1-3/31 12811 6th St-Wind Powe 25 | 71 | 5,323.09 |
| | FOUNDATION HA ENERGY GE | NERATIO\$ | 5,323.09 |
| ACH | RECINTO, SARAH Reim-SWRCB 2020 G2 Certificate Renewal 43 Reim-SWRCB 2019 G2 Certificate Exam Fees 43 | 444 2020 444 2019 | 125.00 145.00 |
| | RECINTO, SARAH | \$ | 270.00 |
| ACH | DELGADO, ROBERTO Emp Assist PC Loan Purchase PC | CLOAN | 1,472.64 |
| | DELGADO, ROBERTO | \$ | 1,472.64 |
| ACH | | 50820 50820A | 2,000.00 |
| | EMPOWER RETIREMENT | \$ | 2,025.00 |
| ACH | EMPOWER RETIREMENT P/R 10 5/8/20 Deferred Comp Ded HR | 0088200 | 76,395.47 |
| | EMPOWER RETIREMENT | \$ | 76,395.47 |

| Report For 05 | : ZFIR TREASURER /01/2020 ~ 05/31/2020 | Inland Empire Utiliti Treasurer Report | les Agency | Page Date | 12 06/13/2020 |
|------------------|--|---|--|--------------|---|
| Check | Payee / Description | | | | Amount |
| ACH | AQUA BEN CORPORATION RP1-23,000 Lbs Hydro DAFT-4,600 Lbs Hydro | ofloc 750A | 40486 40485 \$ | _ = | 29,243.35 4,460.85 33,704.20 |
| ACH | FISHER SCIENTIFIC Apha 15 Color Standa Nitrite Nitrogen Methylene Chloride (Methlyene Chloride (Electrodes Alum Dish |)ptima | 7731654 7899760 7899759 7899743 7813955 7731655 | | 266.32 67.01 861.08 430.53 281.58 164.80 |
| ACH | HASCO OIL COMPANY, | INC. | | | |
| | RP5Mnt-FM White Oil | | 0232804-IN | | 934.24 |
| | | HASCO OIL COMPANY, II | NC. \$ | | 934.24 |
| ACH | J R FILANC CONSRUCT: EN15012.01-4/20 Pay | | PE 6-EN15012. | | 100,361.87 |
| | | J R FILANC CONSRUCTION | ON CO INC \$ | | 100,361.87 |
| ACH | Hand Sanitizer, Touch Hand Sanitizer Hand Sanitizer Hand Sanitizer Foaming Anti Mic Har | ispensers nd Wash n Free Stands Dispens n Free Stands & Dispe nd Wash n Free Stands & Dispe | 79080332 79102133 79111416 79119401 79045711 | | 148.37 347.87 113.62 1,134.88 64.76 64.76 64.76 69.57 205.21 38.43 457.94 |
| | | WAXIE SANITARY SUPPLY | У \$ | | 2,710.17 |
| ACH | PETE'S ROAD SERVICE Tow Charge f/Veh 150 | 04 | 397838-00 | | 268.00 |
| | | PETE'S ROAD SERVICE | \$ | | 268.00 |
| ACH | GRAINGER INC RP2Mnt-Conduit Hole RP5Mnt-Step Drill B: CCWRPMnt-Electrical CCWTPMnt-V-Belts,Oi: RP1Mnt-Wall Shelf RP1Mnt-Outlet Strip- RP1Mnt-Cleaner Cart: | its Gloves-Class 2 Black 1 Filters -10 Outlets ridges | 9486049936 9486049928 9485172887 9484936290 | | 479.38 481.48 824.51 96.44 198.14 82.86 721.50 1,101.57 |
| | Inv-Fltr Crtrdgs.Rp. | lmnt Wndscks,Cbl Ts,K ,Hooks-Shower Curtain | 9490645778 | | 70.02 |

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|------------------|--|---|--------------|--|
| Check | Payee / Description | | | Amoun |
| ACH | R F MACDONALD RP1 Boiler #2 Burner Service Call | 291990 | | 978.00 |
| | R F MACDONALD | \$ | | 978.00 |
| ACH | KONICA MINOLTA BUSINESS SOLUTI 5/20 Lease Copiers-C759,808,658E,458E 5/20 Lease Copiers-C658,C308,C759,C659 | 35462062 35452061 | | 1,710.24 3,546.84 |
| | KONICA MINOLTA BUSINE | ESS SOLUTI\$ | | 5,257.08 |
| ACH | MCMASTER-CARR SUPPLY CO Stick Electrode, Welding Rod Fire Extinguisher Brackets Drinking Water Valve, Y Strainer | 38488993 39410617 38038905 | | 453.70 12.89 238.41 |
| | MCMASTER-CARR SUPPLY | CO \$ | | 705.00 |
| ACH | INDUSTRIAL SUPPLY CO 60' Aluminum Extention Ladder | 2646 | | 1,759.86 |
| | INDUSTRIAL SUPPLY CO | \$ | | 1,759.86 |
| ACH | | IE-324 20-1 IE-324 20-2 IE-311 20-1 IE-336 20-1 IE-334 20-1 IE-333 20-1 IE-328 20-1 | | 1,715.00 300.00 300.00 1,100.00 950.00 800.00 |
| | TOM DODSON & ASSOCIAT | res \$ | | 5,315.00 |
| ACH | W A RASIC CONSTRUCTION CO INC EN17042-4/20 Pay Est 15 | PE 15-EN17042 | | 21,318.00 |
| | W A RASIC CONSTRUCTION | ON CO INC \$ | | 21,318.00 |
| ACH | ATMAA INC Analysis Reduced Sulfur Compounds | 36327 | | 220.00 |
| | ATMAA INC | \$ | | 220.0 |
| ACH | W M LYLES COMPANY EN17110-4/20 Pay Est 1 EN17043-4/20 Pay Est 1 | PE 1-EN17110 PE 1-EN17043 | | 189,488.69 97,615.39 |
| | W M LYLES COMPANY | \$ | | 287,104.0 |
| ACH | KAESER COMPRESSORS RP1Mnt-Vent Valve Mnt Kit RP1Mnt-Omega Blower Oil-Fd Grd, Filters-N TPiMnt-Refrigeration Dryer | 913736858 913720268 913717905 | | 74.53 552.93 2,623.73 |
| | KAESER COMPRESSORS | \$ | | 3,251.1 |
| ACH | TRAUTWEIN CONSTRUCTION INC EN17049-4/20 Pay Est 9 | PE 9-EN17049 | | 554,815.9 |

| | | Amour |
|---|---|--|
| | | |
| RAUTWEIN CONSTRUCTI | ON INC \$ | 554,815.92 |
| oatement Services ment Services | 348461 348398 | 8,531.84 4,420.00 |
| EST OPTIONS INC | \$ | 12,951.84 |
| IC | | |
| | PE 16-EN14042 PE 4-EN19010 | 149,710.80 41,809.50 |
| TANEK CONSTRUCTORS | INC \$ | 191,520.30 |
| REPAIR CO | 027157 | 2,345.51 |
| - , | | 2,345.51 |
| AUGHAN'S INDUSTRIAL | REPAIR COS | <u> </u> |
| Hypochlorite | 2811420 2819614 2819108 2818798 2818797 2818171 2820596 2820597 2821064 2821065 2821597 2822355 2817707 2817706 2816759 2816300 2813283 2813603 2816086 2814244 2815620 2812759 2815101 | 4,003.13 3,946.03 3,987.84 3,944.42 3,950.86 3,947.64 3,918.76 3,968.54 4,104.06 3,971.76 3,923.52 3,957.29 3,957.29 3,978.19 4,092.03 3,952.46 3,949.29 3,970.19 3,873.67 3,884.93 3,965.33 |
| LIN CORP | \$ | 91,103.70 |
| LLC ortfolio Mgmt Svcs | SMA-M0320-161 | 6,396.98 |
| FM ASSET MANAGEMENT | LLC \$ | 6,396.98 |
| 12 | PE 12-EN17044 | 206,572.4 |
| IG SKY ELECTRIC INC | \$ | 206,572.4 |
| | 12 | 12 PE 12-EN17044 |

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| Check | Payee / Description | | | Amoun |
| | | ABATIX CORPORATION | \$ | 293.19 |
| ACH | ATOM ENGINEERING CO EN19041-4/20 Pay Es | | PE 3-EN19041 | 3,957.07 |
| | | ATOM ENGINEERING CO | ONSTRUCTION \$ | 3,957.07 |
| ACH | TRICO CORPORATION Oil Analysis Oil Analysis Oil Analysis Watchdog Desiccant Oil Analysis Oil Analysis | Breathers | P54821 P54815 P54812 175987 P54854 P54852 | 32.00 256.00 384.00 1,709.85 64.00 75.00 |
| | | TRICO CORPORATION | \$ | 2,520.85 |
| ACH | ELECTRO-CHEMICAL DE 2 Sensor S80 16 Membrane Replace | | 70126 70127 | 1,056.90 3,458.54 |
| | | ELECTRO-CHEMICAL DE | EVICES, INC \$ | 4,515.44 |
| ACH | SPIESS CONSTRUCTION EN22004-4/20 Pay Es EN21004-4/20 Pay Es | t 4 | PE 4-EN22004 PE 4-EN21004 | 249,863.06 5,747.50 |
| | | SPIESS CONSTRUCTION | N COMPANY IN\$ | 255,610.56 |
| ACH | MICROAGE 2 FirePOWER Service 2 FirePOWER Service 2 HP Thin Client To | | up 2104916 2104975 2105608 | 5,475.46 5,025.38 1,170.10 |
| | | MICROAGE | \$ | 11,670.94 |
| ACH | CALIFORNIA WATER TE RP1-17,800 lbs Ferr RP1-16,966 lbs Ferr | CCHNOLOGIES ic Chloride Solutior ic Chloride Solutior | n 37301 n 37338 | 5,618.02 5,354.78 |
| | | CALIFORNIA WATER TE | ECHNOLOGIES \$ | 10,972.80 |
| ACH | D & H WATER SYSTEMS Vacuum Enhancer | INC | I2020-0431 | 149.51 |
| | | D & H WATER SYSTEMS | S INC \$ | 149.51 |
| ACH | ARCADIS U.S., INC. WR18028-3/2020 Prof | essional Services | 34158116 | 2,405.20 |
| | | ARCADIS U.S., INC. | \$ | 2,405.20 |
| ACH | FERREIRA COASTAL CO EN20014-4/30 Pay Es EN20015-4/30 Pay Es | t 2 | PE 2-EN20014 PE 2-EN20015 | 24,486.25 39,368.00 |
| | | FERREIRA COASTAL CO | ONSTRUCTION \$ | 63,854.25 |

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|------------------|--|---|--|--|
| Check | Payee / Description | | | Amount |
| ACH | MANAGED MOBILE INC Repair Parts/Labor of Repair Parts/Labor of Repair Parts/Labor of Repair Parts/Labor of Repair Parts/Labor of Repair Parts/Labor of | for Agency Vehicles | IN00-0197577 IN00-0197578 IN00-0197717 IN00-0197196 IN00-0197195 IN00-0197194 | 638.36 237.01 721.50 161.20 161.20 161.20 |
| | | MANAGED MOBILE INC | \$ | 2,080.47 |
| ACH | PRIORITY BUILDING SI February 2020 Janito March 2020 Janitoria March 2020 Lab Janit | orial Service al Service | 67953 68314 68316 | 17,289.36 18,402.64 3,408.64 |
| | | PRIORITY BUILDING SE | RVICES LLC\$ | 39,100.64 |
| ACH | GILLIS + PANICHAPAN EN20051-1/20 Prof St FM20001-1/20 Prof St EN20051-3/1-3/24 Pro | vcs vcs | 107582J 107581J 107620J | 3,870.00 5,230.00 23,620.00 |
| | | GILLIS + PANICHAPAN | ARCHITECTS\$ | 32,720.00 |
| ACH | CSI SERVICES INC EN17042-3/31-4/4/20 | 20 Professional Servi | 9748 | 3,610.00 |
| | | CSI SERVICES INC | \$ | 3,610.00 |
| ACH | AMAZON BUSINESS Handbooks,Manuals Zipper File Bags Plastic Folders with Sludge Judge | h Prongs and Pockets | 146Q-GG9K-HWR 1436-VWPN-TCC 11DM-VQ9F-7RR 1NG1-FQHP-716 | 256.40 21.52 14.00 162.61 |
| | | AMAZON BUSINESS | \$ | 454.53 |
| ACH | JWC ENVIRONMENTAL L EP20003-WR Monster | | 101914 | 15,454.52 |
| | | JWC ENVIRONMENTAL LL | C \$ | 15,454.52 |
| ACH | GARRATT CALLAHAN COI RP1Mnt-Outside Labo RP1Mnt-Formula 125- RP1Mnt-Outside Labo | r/Parts LM-85 Gals | 1040856 1036946 1042708 | 750.00 5,303.08 750.00 |
| | | GARRATT CALLAHAN COM | PANY \$ | 6,803.08 |
| ACH | KIEWIT INFRASTRUCTU EN17082-4/20 Pay Es | | PE 6-EN17082 | 44,410.12 |
| | | KIEWIT INFRASTRUCTUR | E WEST CO \$ | 44,410.12 |
| ACH | SO CALIF EDISON MWDTrnt15T-4/15-5/1 BrksRWTrnOt-4/15-5/ BrksStBsn-4/14-5/14 MntclBsn-4/14-5/14 | 15 4349 Orchard St 10661 Silicon Ped | 3024905261 5/ 3032880824 5/ 3024530748 4/ 3024530725 4/ | 26.75 19.65 48.75 45.93 |

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|------------------|--|---|--------------------------------|------------|--------------------|
| Check | Payee / Description | | | | Amount |
| | HckryDm-4/7-5/7 1340 RP2MntLnchRm-4/1-5/1 | 00 Whittram Ave L 16400 El Prado Rd | 3025772313 4/ 3005927855 4/ | | 596.64 8,040.59 |
| | | SO CALIF EDISON | \$ | | 8,778.31 |
| ACH | IEUA EMPLOYEES' ASSO P/R 11 5/22/20 Emplo | | HR 0088300 | | 210.00 |
| | | IEUA EMPLOYEES' ASSOC | CIATION \$ | | 210.00 |
| ACH | IEUA SUPERVISORS UNI P/R 11 5/22/20 Emplo | | HR 0088300 | | 330.00 |
| | | IEUA SUPERVISORS UNIC | ON ASSOCIA\$ | | 330.00 |
| ACH | IEUA GENERAL EMPLOYI P/R 11 5/22/20 Emplo | | HR 0088300 | | 1,106.60 |
| | | IEUA GENERAL EMPLOYE | ES ASSOCIA\$ | | 1,106.60 |
| ACH | IEUA PROFESSIONAL EMPLO | | HR 0088300 | | 564.00 |
| | | IEUA PROFESSIONAL EM | PLOYEES AS\$ | | 564.00 |
| ACH | DISCOVERY BENEFITS I P/R 11 5/22/20 Cafet | | HR 0088300 | | 4,112.76 |
| | | DISCOVERY BENEFITS II | NC \$ | | 4,112.76 |
| ACH | PATRICK W HUNTER P/R 11 5/22/20 | | HR 0088300 | | 248.50 |
| | | PATRICK W HUNTER | \$ | | 248.50 |
| ACH | VALENCIA, CHRISTINA Valencia, C-ExpEpt-1, | /29/20 CSMFO Conferen | 1/29 CSMFO CO | | 300.48 |
| | | VALENCIA, CHRISTINA | \$ | | 300.48 |
| ACH | ARAMBULA, BLANCA Arambula,B-ExpRpt-2, | /4/20 Scl Dstrct Mtng | 2/4 SD MTTG C | | 220.06 |
| | | ARAMBULA, BLANCA | \$ | | 220.06 |
| ACH | RECINTO, SARAH Recinto,s-ExpRpt-3/ | 5/20 Rnwbl Ntrl Gs Wr | 3/5 RNWBL NTL | | 39.91 |
| | | RECINTO, SARAH | \$ | | 39.91 |
| ACH | ESTRADA, JIMMIE J Reim Monthly Health | Prem | HEALTH PREM | | 539.86 |
| | | ESTRADA, JIMMIE J | \$ | | 539.86 |
| ACH | LICHTI, ALICE Reim Monthly Health | Prem | HEALTH PREM | | 200.43 |
| | | LICHTI, ALICE | \$ | - - | 200.43 |

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| Check | Payee / Description | | | | Amount |
| ACH | NOWAK, THEO T Reim Monthly Health | Prem NOWAK, THEO T | HEALTH PR | REM | 539.86 539.86 |
| ACH | SONNENBURG, ILSE Reim Monthly Health | Prem SONNENBÜRG, ILSE | HEALTH PE | REM | 200.43 200.43 |
| ACH | DYKSTRA, BETTY Reim Monthly Health | Prem DYKSTRA, BETTY | HEALTH PF | REM \$ | 200.43 |
| ACH | MUELLER, CAROLYN Reim Monthly Health | Prem MUELLER, CAROLYN | HEALTH PR | REM | 200.43 |
| ACH | GRIFFIN, GEORGE Reim Monthly Health | Prem GRIFFIN, GEORGE | HEALTH PF | REM | 200.43 |
| ACH | CANADA, ANGELA Reim Monthly Health | Prem CANADA, ANGELA | HEALTH PF | REM | 200.43 |
| ACH | CUPERSMITH, LEIZAR Reim Monthly Health | Prem CUPERSMITH, LEIZAR | HEALTH PF | REM | 200.43 |
| ACH | DELGADO-ORAMAS JR, Reim Monthly Health | | HEALTH PR | REM | 339.43 339.43 |
| ACH | GRANGER, BRANDON Reim Monthly Health | Prem GRANGER, BRANDON | HEALTH PF | REM | 169.72 169.72 |
| ACH | GADDY, CHARLES L Reim Monthly Health | Prem GADDY, CHARLES L | HEALTH PE | REM | 169.72 169.72 |
| ACH | BAKER, CHRIS Reim Monthly Health | Prem BAKER, CHRIS | HEALTH PI | REM | 30.72 30.72 |
| ACH | WEBB, DANNY C Reim Monthly Health | Prem | HEALTH P | REM – - | 139.00 |

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| Check | Payee / Description | | | | A | mount |
| | | WEBB, DANNY C | | \$ | 13 | 9.00 |
| ACH | HUMPHREYS, DEBORAH E Reim Monthly Health | E Prem | HEALTH | PREM | 16 | 9.72 |
| | | HUMPHREYS, DEBORAH E | | .\$ | 16 | 9.72 |
| ACH | MOUAT, FREDERICK W Reim Monthly Health | Prem | HEALTH | PREM | 16 | 9.72 |
| | | MOUAT, FREDERICK W | | \$ | 16 | 9.72 |
| ACH | MORGAN, GARTH W Reim Monthly Health | Prem | HEALTH | PREM | 13 | 9.00 |
| | | MORGAN, GARTH W | | \$ | 13 | 9.00 |
| ACH | ALLINGHAM, JACK Reim Monthly Health | Prem | HEALTH | PREM | 3 | 0.72 |
| | | ALLINGHAM, JACK | | \$ | 3 | 0.72 |
| ACH | MAZUR, JOHN Reim Monthly Health | Prem | HEALTH | PREM | 50 | 1.91 |
| | | MAZUR, JOHN | | \$ | 50 | 1.91 |
| ACH | HAMILTON, MARIA Reim Monthly Health | Prem | HEALTH | PREM | 13 | 9.00 |
| | | HAMILTON, MARIA | | \$ | 13 | 9.00 |
| ACH | RAMOS, CAROL Reim Monthly Health | Prem | HEALTH | PREM | 3 | 0.72 |
| | | RAMOS, CAROL | | \$ | 3 | 0.72 |
| ACH | FISHER, JAY Reim Monthly Health | Prem | HEALTH | PREM | 13 | 9.00 |
| | | FISHER, JAY | | \$ | 13 | 9.00 |
| ACH | KING, PATRICK Reim Monthly Health | Prem | HEALTH | PREM | 3 | 0.72 |
| | | KING, PATRICK | | \$ | 3 | 0.72 |
| ACH | HOWARD, ROBERT JAMES Reim Monthly Health | S Prem | HEALTH | PREM | 3 | 0.72 |
| | | HOWARD, ROBERT JAMES | | \$ | 3 | 0.72 |
| ACH | DIETZ, JUDY Reim Monthly Health | Prem | HEALTH | PREM | 13 | 9.00 |
| | | DIETZ, JUDY | | \$ | 13 | 9.00 |
| ACH | DAVIS, GEORGE Reim Monthly Health | Prem | HEALTH | PREM | 3 | 0.72 |

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|--------|--|---|---------|------|--------------------------|
| Check | Payee / Description | | | | Amou |
| | | DAVIS, GEORGE | | \$ | 30.7 |
| ACH | MONZAVI, TAGHI Reim Monthly Health | Prem | HEALTH | PREM | 30.7 |
| | | MONZAVI, TAGHI | | \$ | 30.7 |
| ACH | PETERSEN, KENNETH Reim Monthly Health | Prem | HEALTH | PREM | 200.4 |
| | | PETERSEN, KENNETH | | \$ | 200.4 |
| ACH | TRAUTERMAN, HELEN Reim Monthly Health | Prem | HEALTH | PREM | 200.4 |
| | | TRAUTERMAN, HELEN | | \$ | 200.4 |
| ACH | TIEGS, KATHLEEN Reim Monthly Health | Prem | HEALTH | PREM | 539.8 |
| | | TIEGS, KATHLEEN | | \$ | 539.8 |
| ACH | DIGGS, GEORGE Reim Monthly Health | Prem | HEALTH | PREM | 539.8 |
| | | DIGGS, GEORGE | | \$ | 539.8 |
| ACH | HAYES, KENNETH Reim Monthly Health | Prem | HEALTH | PREM | 539.8 |
| | | HAYES, KENNETH | | \$ | 539.8 |
| ACH | HUNTON, STEVE Reim Monthly Health | Prem | HEALTH | PREM | 169.7 |
| | | HUNTON, STEVE | | \$ | 169.7 |
| ACH | RODRIGUEZ, LOUIS Reim Monthly Health | Prem | HEALTH | PREM | 169.7 |
| | | RODRIGUEZ, LOUIS | | \$ | 169.7 |
| ACH | VARBEL, VAN Reim Monthly Health | Prem | HEALTH | PREM | 501.9 |
| | | VARBEL, VAN | | \$ | 501.9 |
| ACH | CLIFTON, NEIL Reim Monthly Health | Prem | HEALTH | PREM | 501.9 |
| | | CLIFTON, NEIL | | \$ | 501.9 |
| ACH | WELLMAN, JOHN THOMA Reim Monthly Health | | HEALTH | PREM | 501.9 |
| | | WELLMAN, JOHN THOMAS | | \$ | 501.9 |

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|------------------|---|--|-------------|---------------------------|
| Check | Payee / Description | | | Amoun |
| | Reim Monthly Health | Prem | HEALTH PREM | 200.43 |
| | | TROXEL, WYATT | \$ | 200.43 |
| ACH | CORLEY, WILLIAM Reim Monthly Health | Drom | HEALTH PREM | 501.91 |
| | Reim Monthly Health | CORLEY, WILLIAM | \$ | 501.91 |
| ACH | CALLAHAN, CHARLES | CORDET, WILDIAM | Y | |
| ACI | Reim Monthly Health | Prem | HEALTH PREM | 30.72 |
| | | CALLAHAN, CHARLES | \$ | 30.72 |
| ACH | LESNIAKOWSKI, NORBER Reim Monthly Health | | HEALTH PREM | 200.43 |
| | neim monerary measure | LESNIAKOWSKI, NORBEF | | 200.43 |
| ACH | VER STEEG, ALLEN J | | | |
| 11011 | Reim Monthly Health | Prem | HEALTH PREM | 169.72 |
| | | VER STEEG, ALLEN J | \$ | 169.72 |
| ACH | HACKNEY, GARY Reim Monthly Health | Prem | HEALTH PREM | 501.91 |
| | | HACKNEY, GARY | \$ | 501.91 |
| ACH | CAREL, LARRY | | | |
| | Reim Monthly Health | Prem | HEALTH PREM | 30.72 |
| | | CAREL, LARRY | \$ | 30.72 |
| ACH | TOL, HAROLD Reim Monthly Health | Prem | HEALTH PREM | 200.43 |
| | - | TOL, HAROLD | \$ | 200.43 |
| ACH | BANKSTON, GARY | | | 262.00 |
| | Reim Monthly Health | | HEALTH PREM | 362.93 |
| | | BANKSTON, GARY | \$ | 362.93 |
| ACH | ATWATER, RICHARD Reim Monthly Health | Prem | HEALTH PREM | 139.00 |
| | | ATWATER, RICHARD | \$ | 139.00 |
| ACH | FIESTA, PATRICIA | _ | | F01 01 |
| | Reim Monthly Health | | HEALTH PREM | 501.91 |
| | | FIESTA, PATRICIA | \$ | 501.93 |
| ACH | DIGGS, JANET Reim Monthly Health | Prem | HEALTH PREM | 678.86 |
| | - | DIGGS, JANET | \$ | 678.86 |

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|------------------|---|--|-------------|----------------------------|
| Check | Payee / Description | | | Amount |
| ACH | CARAZA, TERESA Reim Monthly Health | Prem CARAZA, TERESA | HEALTH PREM | 30.72 |
| ACH | SANTA CRUZ, JACQUELY Reim Monthly Health | | HEALTH PREM | 863.71 863.71 |
| ACH | HECK, ROSELYN Reim Monthly Health | Prem HECK, ROSELYN | HEALTH PREM | 30.72 30.72 |
| ACH | SOPICKI, LEO Reim Monthly Health | Prem SOPICKI, LEO | HEALTH PREM | 339.43 339.43 |
| ACH | GOSE, ROSEMARY Reim Monthly Health | Prem GOSE, ROSEMARY | HEALTH PREM | 139.00 139.00 |
| ACH | KEHL, BARRETT Reim Monthly Health | Prem KEHL, BARRETT | HEALTH PREM | 139.00 139.00 |
| ACH | RITCHIE, JANN Reim Monthly Health | Prem RITCHIE, JANN | HEALTH PREM | 139.00 139.00 |
| ACH | LONG, ROCKWELL DEE Reim Monthly Health | Prem LONG, ROCKWELL DEE | HEALTH PREM | 525.39 525.39 |
| ACH | FATTAHI, MIR Reim Monthly Health | Prem FATTAHI, MIR | HEALTH PREM | 139.00 139.00 |
| ACH | VERGARA, FLORENTINO Reim Monthly Health | Prem VERGARA, FLORENTINO | HEALTH PREM | 339.43 339.43 |
| ACH | ROGERS, SHIRLEY Reim Monthly Health | Prem ROGERS, SHIRLEY | HEALTH PREM | 200.43 |
| ACH | WALL, DAVID Reim Monthly Health | Prem WALL, DAVID | HEALTH PREM | 332.20 332.20 |

| Report For 05 | : ZFIR TREASURER /01/2020 ~ 05/31/2020 | Inland Empire Utilit: Treasurer Report | les Agency | Page 23 Date 06/13/2020 |
|------------------|--|---|-------------|----------------------------|
| Check | Payee / Description | | | Amount |
| ACH | CHUNG, MICHAEL Reim Monthly Health | Prem CHUNG, MICHAEL | HEALTH PREM | 169.72 169.72 |
| ACH | ADAMS, PAMELA Reim Monthly Health | Prem ADAMS, PAMELA | HEALTH PREM | 30.72 30.72 |
| ACH | BLASINGAME, MARY Reim Monthly Health | Prem BLASINGAME, MARY | HEALTH PREM | 525.39 525.39 |
| ACH | ANDERSON, KENNETH Reim Monthly Health | Prem ANDERSON, KENNETH | HEALTH PREM | 169.72 169.72 |
| ACH | MOE, JAMES Reim Monthly Health | Prem MOE, JAMES | HEALTH PREM | 30.72 30.72 |
| ACH | POLACEK, KEVIN Reim Monthly Health | Prem POLACEK, KEVIN | HEALTH PREM | 863.71 863.71 |
| ACH | ELROD, SONDRA Reim Monthly Health | Prem ELROD, SONDRA | HEALTH PREM | 169.72 169.72 |
| ACH | FRAZIER, JACK Reim Monthly Health | Prem FRAZIER, JACK | HEALTH PREM | 183.62 183.62 |
| ACH | HOAK, JAMES Reim Monthly Health | Prem HOAK, JAMES | HEALTH PREM | 139.00 139.00 |
| ACH | FOLEY III, DANIEL J Reim Monthly Health | Prem FOLEY III, DANIEL J. | HEALTH PREM | 193.20 193.20 |
| ACH | CLEVELAND, JAMES Reim Monthly Health | Prem CLEVELAND, JAMES | HEALTH PREM | 139.00 139.00 |
| ACH | LANGNER, CAMERON Reim Monthly Health | Prem | HEALTH PREM | 629.49 |

| Report For 05 | : ZFIR TREASURER /01/2020 ~ 05/31/2020 | Inland Empire Utili Treasurer Report | ties Agency | Page 24 Date 06/13/2020 |
|------------------|---|---|-------------|----------------------------|
| Check | Payee / Description | | | Amount |
| | | LANGNER, CAMERON | \$ | 629.49 |
| ACH | HAMILTON, LEANNE Reim Monthly Health | Prem | HEALTH PREM | 30.72 |
| , | · | HAMILTON, LEANNE | \$ | 30.72 |
| ACH | HOOSHMAND, RAY Reim Monthly Health | Prem | HEALTH PREM | 139.00 |
| | | HOOSHMAND, RAY | \$ | 139.00 |
| ACH | SCHLAPKOHL, JACK Reim Monthly Health | Prem | HEALTH PREM | 139.00 |
| | | SCHLAPKOHL, JACK | \$ | 139.00 |
| ACH | POOLE, PHILLIP Reim Monthly Health | Prem | HEALTH PREM | 30.72 |
| | | POOLE, PHILLIP | \$ | 30.72 |
| ACH | ADAMS, BARBARA Reim Monthly Health | Prem | HEALTH PREM | 169.72 |
| | | ADAMS, BARBARA | \$ | 169.72 |
| ACH | RUESCH, GENECE Reim Monthly Health | Prem | HEALTH PREM | 362.91 |
| | | RUESCH, GENECE | \$ | 362.91 |
| ACH | VANDERPOOL, LARRY Reim Monthly Health | Prem | HEALTH PREM | 856.19 |
| | | VANDERPOOL, LARRY | \$ | 856.19 |
| ACH | AMBROSE, JEFFREY Reim Monthly Health | Prem | HEALTH PREM | 339.43 |
| | | AMBROSE, JEFFREY | \$ | 339.43 |
| ACH | MERRILL, DIANE Reim Monthly Health | Prem | HEALTH PREM | 497.60 |
| | | MERRILL, DIANE | \$ | 497.60 |
| ACH | HÖUSER, ROD Reim Monthly Health | Prem | HEALTH PREM | 501.91 |
| | | HOUSER, ROD | \$ | 501.91 |
| ACH | RUSSO, VICKI Reim Monthly Health | Prem | HEALTH PREM | 193.20 |
| | | RUSSO, VICKI | \$ | 193.20 |
| ACH | HUSS, KERRY Reim Monthly Health | Prem | HEALTH PREM | 856.19 |

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|--------|---|--|-------------|----------------|
| Check | Payee / Description | | | Amoun |
| | | HUSS, KERRY | \$ | 856.19 |
| ACH | BINGHAM, GREGG Reim Monthly Health | Prem | HEALTH PREM | 525.39 |
| | | BINGHAM, GREGG | \$ | 525.39 |
| ACH | CHARLES, DAVID Reim Monthly Health | Prem | HEALTH PREM | 139.00 |
| | | CHARLES, DAVID | \$ | 139.00 |
| ACH | YEBOAH, ERNEST Reim Monthly Health | Prem | HEALTH PREM | 139.00 |
| | | YEBOAH, ERNEST | \$ | 139.00 |
| ACH | ALVARADO, ROSEMARY Reim Monthly Health | Prem | HEALTH PREM | 362.91 |
| | | ALVARADO, ROSEMARY | \$ | 362.91 |
| ACH | BARELA, GEORGE Reim Monthly Health | Prem | HEALTH PREM | 139.0 |
| | | BARELA, GEORGE | \$ | 139.00 |
| ACH | FETZER, ROBERT Reim Monthly Health | Prem | HEALTH PREM | 863.73 |
| | | FETZER, ROBERT | \$ | 863.7 |
| ACH | SPAETH, ERIC Reim Monthly Health | Prem | HEALTH PREM | 193.2 |
| | II. | SPAETH, ERIC | \$ | 193.2 |
| ACH | DAVIS, MARTHA Reim Monthly Health | Prem | HEALTH PREM | 30.7 |
| | | DAVIS, MARTHA | \$ | 30.7 |
| ACH | BRULE, CHRISTOPHER Reim Monthly Health | Prem | HEALTH PREM | 193.2 |
| | | BRULE, CHRISTOPHER | \$ | 193.2 |
| ACH | ROOS, JAMES Reim Monthly Health | Prem | HEALTH PREM | 200.4 |
| | | ROOS, JAMES | \$ | 200.4 |
| ACH | MULLANEY, JOHN Reim Monthly Health | Prem | HEALTH PREM | 332.2 |
| | | MULLANEY, JOHN | \$ | 332.2 |

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|------------------|---|--|---------------------------------------|----------------------------|
| Check | Payee / Description | | | Amoun |
| | Reim Monthly Health | Prem | HEALTH PREM | 525.39 |
| | | VALENZUELA, DANIEL | \$ | 525.39 |
| ACH | PACE, BRIAN | Droom | HEALTH PREM | 525.39 |
| | Reim Monthly Health | | | 525.39 |
| 3.011 | WING TOGERS | PACE, BRIAN | <u> </u> | |
| ACH | KING, JOSEPH Reim Monthly Health | Prem | HEALTH PREM | 139.00 |
| | | KING, JOSEPH | \$ | 139.00 |
| ACH | VILLALOBOS, HECTOR Reim Monthly Health | Drem | HEALTH PREM | 193.20 |
| | Reim Monthly Mealth | VILLALOBOS, HECTOR | \$ | 193.20 |
| ACH | BAXTER, KATHLEEN | VIIIIAIOBOD, IIICIOIC | | |
| ACII | Reim Monthly Health | Prem | HEALTH PREM | 193.20 |
| | | BAXTER, KATHLEEN | \$ | 193.20 |
| ACH | PENMAN, DAVID Reim Monthly Health | Prem | HEALTH PREM | 525.39 |
| | TOTAL POSTERLY TOUR | PENMAN, DAVID | \$ | 525.39 |
| ACH | ANGIER, RICHARD | | · · · · · · · · · · · · · · · · · · · | |
| 11011 | Reim Monthly Health | Prem | HEALTH PREM | 525.39 |
| | | ANGIER, RICHARD | \$ | 525.39 |
| ACH | MERRILL, DEBORAH Reim Monthly Health | Prem | HEALTH PREM | 362.91 |
| | • | MERRILL, DEBORAH | \$ | 362.91 |
| ACH | O'DEA, KRISTINE | | | |
| | Reim Monthly Health | | HEALTH PREM | 169.72 |
| | | O'DEA, KRISTINE | \$ | 169.72 |
| ACH | OAKDEN, LISA Reim Monthly Health | Prem | HEALTH PREM | 863.71 |
| | | OAKDEN, LISA | \$ | 863.73 |
| ACH | LAUGHLIN, JOHN | Parama | | 139.00 |
| | Reim Monthly Health | | HEALTH PREM | 139.00 |
| | | LAUGHLIN, JOHN | \$ | 139.00 |
| ACH | HUGHBANKS, ROGER Reim Monthly Health | Prem | HEALTH PREM | 193.20 |
| | | HUGHBANKS, ROGER | \$ | 193.20 |

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|--------|---|---|-------------|---------------------------|
| Check | Payee / Description | | | Amoun |
| ACH | SPENDLOVE, DANNY Reim Monthly Health | Prem SPENDLOVE, DANNY | HEALTH PREM | 169.72 169.72 |
| ACH | HOULIHAN, JESSE Reim Monthly Health | Prem HOULIHAN, JESSE | HEALTH PREM | 193.20 193.20 |
| ACH | WARMAN, EVELYN Reim Monthly Health | Prem WARMAN, EVELYN | HEALTH PREM | 30.72 30.72 |
| ACH | HERNANDEZ, DELIA Reim Monthly Health | Prem HERNANDEZ, DELIA | HEALTH PREM | 193.20 193.20 |
| ACH | AVILA, ARTHUR L Reim Monthly Health | Prem AVILA, ARTHUR L | HEALTH PREM | 193.20 193.20 |
| ACH | GUARDIANO, GARY Reim Monthly Health | Prem GUARDIANO, GARY | HEALTH PREM | 169.72 169.72 |
| ACH | POMERLEAU, THOMAS Reim Monthly Health | Prem POMERLEAU, THOMAS | HEALTH PREM | 30.72 30.72 |
| ACH | BARRER, SATURNINO Reim Monthly Health | Prem BARRER, SATURNINO | HEALTH PREM | 332.20 332.20 |
| ACH | LACEY, STEVEN Reim Monthly Health | Prem LACEY, STEVEN | HEALTH PREM | 724.71 724.71 |
| ACH | MILLS, JOHN Reim Monthly Health | Prem MILLS, JOHN | HEALTH PREM | 30.72 30.72 |
| ACH | REED, RANDALL Reim Monthly Health | Prem REED, RANDALL | HEALTH PREM | 664.39 664.39 |
| ACH | RAMIREZ, REBECCA Reim Monthly Health | Prem RAMIREZ, REBECCA | HEALTH PREM | 332.20 |

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|------------------|---|--|-------------|----------------------------|
| Check | Payee / Description | | | Amount |
| ACH | RAZAK, HALLA Reim Monthly Health | Prem RAZAK, HALLA | HEALTH PREM | 139.00 |
| ACH | OSBORN, CINDY L Reim Monthly Health | Prem OSBORN, CINDY L | HEALTH PREM | 332.20 332.20 |
| ACH | FESTA, GARY Reim Monthly Health | Prem FESTA, GARY | HEALTH PREM | 245.25 245.25 |
| ACH | MENDEZ, DAVID G Reim Monthly Health | Prem MENDEZ, DAVID G | HEALTH PREM | 193.20 193.20 |
| ACH | DELGADO, FLOR MARIA Reim Monthly Health | | HEALTH PREM | 139.00 139.00 |
| ACH | GROENVELD, NELLETJE Reim Monthly Health | Prem GROENVELD, NELLETJE | HEALTH PREM | 193.20 193.20 |
| ACH | BATONGMALAQUE, CHARI Reim Monthly Health | | HEALTH PREM | 562.23 562.23 |
| ACH | BOBBITT, JOHN Reim Monthly Health | Prem BOBBITT, JOHN | HEALTH PREM | 139.00 139.00 |
| ACH | NEIGHBORS, CLAUDIA Reim Monthly Health | Prem NEIGHBORS, CLAUDIA | HEALTH PREM | 193.20 193.20 |
| ACH | JONES, LONDON S Reim Monthly Health | Prem JONES, LONDON S | HEALTH PREM | 193.20 193.20 |
| ACH | CHENG, TINA Y Reim Monthly Health | Prem CHENG, TINA Y | HEALTH PREM | 200.43 200.43 |
| ACH | JACKSON, PATRICIA M Reim Monthly Health | Prem | HEALTH PREM | 169.72 |

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|--------|---|--|--|---|
| Check | Payee / Description | | | Amour |
| | | JACKSON, PATRICIA M | \$ | 169.72 |
| ACH | GIBSON, CONSTANCE A Reim Monthly Health | | HEALTH PREM | 139.00 |
| | | GIBSON, CONSTANCE A | \$ | 139.00 |
| ACH | GU, JASON Reim Monthly Health | Prem | HEALTH PREM | 169.7 |
| | | GU, JASON | \$ | 169.7 |
| ACH | KOPP, LINDA L Reim Monthly Health | Prem | HEALTH PREM | 193.2 |
| | | KOPP, LINDA L | \$ | 193.2 |
| ACH | SCHERCK, JOHN Reim Monthly Health | Prem | HEALTH PREM | 322.6 |
| | | SCHERCK, JOHN | \$ | 322.6 |
| ACH | 104896 WESTERN WATE 100150 HARRINGTON II 100150 HARRINGTON II 101706 CALOLYMPIC SI 100150 HARRINGTON II 100150 HARRINGTON II 1005316 PLUMBERS DEP 105213 BAVCO 104896 WESTERN WATE 101706 CALOLYMPIC SI 107522 LINDSAY ENGI 107780 SUPERIOR ELE 100951 POLYDYNE INC 105316 PLUMBERS DEP 107432 PMC ENGINEER 100150 HARRINGTON II 104896 WESTERN WATE 105570 SKALAR INC 107780 SUPERIOR ELE 100150 HARRINGTON II 104896 WESTERN WATE | TER CORP SON INC NDUSTRIAL PLASTICS LI R WORKS SUPPLY CO NDUSTRIAL PLASTICS LI NDUSTRIAL PLASTICS LI AFETY NDUSTRIAL PLASTICS LI NDUSTRIAL PLASTICS LI OT INC R WORKS SUPPLY CO AFETY NEERING, INC. CTRIC MOTOR SERVICE I OT INC ING LLC NDUSTRIAL PLASTICS LI | 2200106180 2200106218 2200106564 2200106017 2200105883 2200105796 2200105794 2200106565 2200106567 2200106567 2200106676 2200106677 2200106678 2200106825 2200106825 2200106827 2200106828 2200106949 2200106950 2200107046 | 1,408.5 9,670.7 2,097.9 3,049.0 4082.7 1,097.9 1,342.7 588.8 7,842.5 2,654.3 106.1 1,051.6 378.1 340.0 595.0 9,670.7 1,990.6 3,615.6 1,743.9 2,297.3 4,396.7 3,214.3 209.2 2,568.2 65,797.2 |
| ACH | CALTROL INC FS67CFR-237 | | CD99102690 | 550.9 |
| | | CALTROL INC | \$ | 550.9 |
| ACH | FISHER SCIENTIFIC Buret, Fiber Glass F | ilter,SOD Pot Tartrat | 8606987 | 874.8 |

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| Check | Payee / Description | | | Amount |
| | Intellical, Tube Cult Disp, Sodium Nit | ropr 8702284 | | 3,220.53 |
| | FISHER SCIENTIFI | C \$ | | 4,095.33 |
| ACH | NAPA GENUINE PARTS COMPANY Antifreeze, Blue Def, Brake Fluid 2.5 Gals Blue Def 4 Refund Core Deposits 2.5 Gals Blue Def 2.5 Gals Blue Def Air Filters BOOSPAC, Cable, Clamp, Tarp Stick Hose Gold NAPA GENUINE PAR | 4584-304780 4584-294802 4584-294059 4584-304164 4584-303596 4584-303564 4584-304670 TS COMPANY \$ | | 164.84 25.84 310.32- 25.84- 65.12 35.88 313.97 65.40 |
| ACH | PATTON SALES CORP | | | |
| | Round Tubes | 3969010 | | 387.38 |
| | PATTON SALES COR | P \$ | | 387.38 |
| ACH | RMA GROUP EN14042-2/17-3/15 Prof Svcs EN20019-2/17-3/15 Prof Svcs RMA GROUP | 69724 69725 \$ | | 141.00 721.51 862.51 |
| ACH | ROYAL INDUSTRIAL SOLUTIONS Wire Marker Books, Flex Connectors, Wi Wire, Socket Screw Terminals Wire Emergency Lite Fixtures Vinyl Rolls Molded Case Circuit Breaker Covers APC Smart UPSs | re C 6046-681593 6046-680637 6046-680840 6046-681111 6046-681270 6046-681170 6046-681441 6046-681106 | | 453.76 197.88 2,912.81 479.25 268.30 625.04 25.62 6,236.93 |
| | ROYAL INDUSTRIAL | SOLUTIONS \$ | | 11,199.59 |
| ACH | WAXIE SANITARY SUPPLY Hand Sanitizer | 79129297 | | 64.76 |
| | WAXIE SANITARY S | UPPLY \$ | | 64.76 |
| ACH | GRAINGER INC RP2Mnt-Y Strainers RP4Mnt-Machine Srew RP4Mnt-V-Belts, Washers, Lock Nuts, Mch RP1Mnt-Eye Wash Preservatives RP2Mnt-Relay-Time Delay RP1Mnt-Knee Pads-Flexible Style RP1Mnt-Lockout HASPs HQB-Fuse Block, Mounting Track RP2Mnt-Linear LED Bulbs RP1Mnt-Non Coded Air Tank-Hotdog 3 G RP1Mnt-Motor, V-Belts RP4Ops-Full Face Respirator Inv-Trigger Spray Bottles RP4Ops-Twin Cartridge Adapter, Chemic | 9504383424 9500920286 9504383432 9504494726 9505597428 9498312116 9507175173 9507175181 9507420421 9496264228 | | 78.83 14.27 275.53 19.57 124.45 27.24 215.94 24.54 140.08 220.35 144.68 289.00 76.59 91.55 |

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| Check | Payee / Description | | | | Amoun |
| | RP4Ops-3-Ring Binde Inv-Expansion Wedge | rs-1/2" Blue Anchors,Ball Valves | 948080087 949946503 | | 62.92 535.65 |
| | | GRAINGER INC | | \$ | 2,341.19 |
| ACH | ENVIRONMENTAL RESOU Volatiles, Trace Met | | 937137 | | 542.21 |
| | | ENVIRONMENTAL RESOURCE | CES ASSOC | \$ | 542.21 |
| ACH | STANDARD & POOR'S Fin-Analytical Svcs | CBRFA-RP5 Expansion | 11391682 | | 71,250.00 |
| | | STANDARD & POOR'S | | \$ | 71,250.00 |
| ACH | CHINO BASIN WATERMA 50% Cost Sharing - | STER SB88 GRCC | 2020-04-E | | 3,599.98 |
| | | CHINO BASIN WATERMAS | rer | \$ | 3,599.98 |
| ACH | BLACK & VEATCH CORP EN17044-1/2020 Prof EN17044-2/2020 Prof EN17044-3/2020 Prof | essional Services essional Services | 1313832 1316534 1317886 | | 6,955.00 7,031.25 2,971.25 |
| | | BLACK & VEATCH CORPOR | RATION | \$ | 16,957.50 |
| ACH | AMERICAN COMPRESSOR Separators, Air Filt | CO ers,Oil Filters | 200340-P | | 609.08 |
| | | AMERICAN COMPRESSOR (| CO | \$ | 609.08 |
| ACH | U S HOSE INC Parflex Hose, Pipe S | wivels,Pipe | 0136428-I | N | 225.75 |
| | | U S HOSE INC | | \$ | 225.7 |
| ACH | LOCKMASTERS USA IN Inv-Padlocks-STD & | C 2 1/2" shackles Blue | 1050837 | | 1,310.05 |
| | | LOCKMASTERS USA INC | | \$ | 1,310.05 |
| ACH | MCR TECHNOLOGIES IN ABB WaterMaster FET | | 38992 | | 1,710.23 |
| | | MCR TECHNOLOGIES INC | | \$ | 1,710.23 |
| ACH | PALM AUTO DETAIL IN 4/20 Carwash Svcs f | C /Agency Fleet Vehicle | 20499-4 | ·- | 2,155.00 |
| | | PALM AUTO DETAIL INC | | \$ | 2,155.00 |
| ACH | BABCOCK LABORATORIE East End Dissolved/ | S, INC POC Samples | CD02435-2 | 045 | 288.00 |
| | | BABCOCK LABORATORIES | , INC | \$ | 288.0 |
| ACH | ALFA LAVAL INC Upper Belt | | 280024085 | | 5,411.2 |

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| | | ALFA LAVAL INC | \$ | 5,411.23 |
| ACH | SCHNEIDER ELECTRIC Diff Pressure Trans | | 94167498 | 1,908.34 |
| | | SCHNEIDER ELECTRIC | SYSTEMS INC\$ | 1,908.34 |
| ACH | INLAND EMPIRE REGIO RP1/RP2-4/20 Biosol | | 90026493 | 410,552.80 |
| | | INLAND EMPIRE REGIO | NAL \$ | 410,552.80 |
| ACH | PARSONS WATER & INF EN19001/EN19006-2/2 | | 2004A395 | 169,586.08 |
| | | PARSONS WATER & INF | RASTRUCTURE\$ | 169,586.08 |
| ACH | RP1Mnt-Stblcl STDs, RP1Ops-Elctd Amtx A RP1Ops-Filter Modul Inv-Fiber Wipers TP4Mnt-Turb Flow Cl Inv-Turb Flow Clean | ean Syschk's Syschk's ne Caps & Electrodes LR | t 11911224 11917214 11919605 11927401 11939002 | 851.93 2,494.82 3,404.93 2,913.81 188.51 2,811.31 5,622.61 423.35 454.17 43.10 |
| | | HACH COMPANY | \$ | 19,208.54 |
| ACH | SHI INTERNATIONAL C Plumsail Dashboard | ORP Designer f/Outlook 3 | 6 B11576873 | 390.95 |
| | | SHI INTERNATIONAL CO | ORP \$ | 390.95 |
| ACH | MIKE BUBALO CONSTRU RCA-Column Repair | CTION CO IN | 2640 | 42,048.78 |
| | | MIKE BUBALO CONSTRU | CTION CO IN\$ | 42,048.78 |
| ACH | INSIDE PLANTS INC FcltyMgt/Lab-5/20 I | ndoor Plant Care | 79656 | 636.00 |
| | | INSIDE PLANTS INC | \$ | 636.00 |
| ACH | STANTEC CONSULTING EN15012-2/22-3/20 P EN14043-2/22-3/20 P EN17082-2/22-3/20 P | rof Svcs rof Svcs rof Svcs | 1641893 1642226 1644583 | 4,511.00 2,035.50 13,771.00 |
| | | STANTEC CONSULTING | INC \$ | 20,317.50 |
| ACH | RSD Pleated Filters Recovery Cylinder, T Time Delay Fuses Cube Fan | rap,Tee | 55320715-00 55322325-00 55321746-00 55321549-00 | 154.98 182.33 |

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| Check | Payee / Description | | | Amoun |
| | RSD | | \$ | 2,733.44 |
| ACH | SUNGARD AVAILABILITY SERVICES 6/20 Disaster Recovery Svc | 152740822 | | 853.00 |
| | SUNGARD AVAILABILITY | SERVICES | \$ | 853.00 |
| ACH | OLIN CORP TP1-4,836 Gals Sodium Hypochlorite TP1-4,736 Gals Sodium Hypochlorite TP1-4,896 Gals Sodium Hypochlorite TP1-4,834 Gals Sodium Hypochlorite TP1-4,942 Gals Sodium Hypochlorite RP5-4,894 Gals Sodium Hypochlorite RP5-4,842 Gals Sodium Hypochlorite RP4-4,832 Gals Sodium Hypochlorite | 2825068 2824689 2824413 2823895 2823300 2824415 2822888 2824414 | | 3,888.14 4,049.28 3,936.38 3,886.54 3,973.37 3,934.78 3,892.97 3,884.93 |
| | OLIN CORP | | \$ | 31,446.39 |
| ACH | ALLIED UNIVERSAL SECURITY SERV RP1-April 2020 Monthly Guard Service RP1-March 2020 Monthly Guard Service | 10018526 9924633 | | 5,129.96 5,129.96 |
| | ALLIED UNIVERSAL SECT | JRITY SERV | \$ | 10,259.92 |
| ACH | KAMBRIAN CORPORATION ISS-Office 365 ES | KINV4862 | | 3,578.70 |
| | KAMBRIAN CORPORATION | | \$ | 3,578.70 |
| ACH | SIEMENS INDUSTRY INC Transfer Invoice from Ponton for Payment | 560435217 | 8 | 2,856.45 |
| | SIEMENS INDUSTRY INC | | \$ | 2,856.45 |
| ACH | EUROFINS EATON ANALYTICAL LLC 4/14/2020 Water Sample Analysis 4/14/2020 Water Sample Analysis 4/21/2020 Water Sample Analysis | L0507459 L0507896 L0508431 | | 200.00 975.00 15.00 |
| | EUROFINS EATON ANALYT | FICAL LLC | \$ | 1,190.00 |
| ACH | ATKINSON, ANDELSON, LOYA, 2/2020 General Labor Advice 4/2020 General Labor Advice 3/2020 General Labor Advice | 590478 594556 592718 | <u> </u> | 7,001.50 2,680.00 4,053.50 |
| | ATKINSON, ANDELSON, I | LOYA, | \$ | 13,735.00 |
| ACH | MICROAGE Cisco Catlyst 3650-24TD-S Switch | 2106298 | | 4,148.49 |
| | MICROAGE | | \$ | 4,148.49 |
| ACH | CALIFORNIA WATER TECHNOLOGIES Phills-16,883 lbs Ferric Chloride Soluti RP1-17,428 lbs Ferric Chloride Solution RP1-17,969 lbs Ferric Chloride Solution | 37312 | | 5,328.68 5,500.41 5,671.26 |

| Report For 05 | : ZFIR TREASURER Inland Empire Utilities Agency 5/01/2020 ~ 05/31/2020 Treasurer Report | y Pa Da | ige 34 ite 06/13/202 |
|------------------|---|---|--|
| Check | Payee / Description | | Amoun |
| | CALIFORNIA WATER TECHNOLOGIES | \$ | 16,500.35 |
| ACH | V3IT CONSULTING INC SAP BASIS April 2020 Support April 2020 PR Error Approver/Multilevel V3IT2020 | IEUAO IEUAO | 6,184.00 3,818.50 |
| | V3IT CONSULTING INC | \$ | 10,002.50 |
| ACH | ARCADIS U.S., INC. EN19001/EN19006-3/2020 Professional Serv 34159498 | | 203,321.95 |
| | ARCADIS U.S., INC. | \$ | 203,321.95 |
| ACH | TITUS INDUSTRIAL GROUP INC EN20015-Manhole Cover Opening Tools, Tubi 8101 | _ | 148.91 |
| | TITUS INDUSTRIAL GROUP INC | \$ | 148.91 |
| ACH | FERREIRA COASTAL CONSTRUCTION EN20019-2/2020 Professional Services 5216-007 EN20019-3/2020 Professional Services 5216-007 | | 98,316.24 32,229.66 |
| | FERREIRA COASTAL CONSTRUCTION | \$ | 130,545.90 |
| ACH | WEST COAST ADVISORS 5/20 Prof Svcs 12727 | _ | 9,800.00 |
| | WEST COAST ADVISORS | \$ | 9,800.00 |
| ACH | MANAGED MOBILE INC Repair Parts/Labor for Agency Vehicles IN00-019 Repair Parts/Labor for Agency Vehicles IN00-019 Repair Parts/Labor for Agency Vehicles IN00-019 | 7759 | 366.50 2,198.66 240.30 |
| | MANAGED MOBILE INC | \$ | 2,805.46 |
| ACH | PACIFIC COURIERS INC April 2020 Messenger Svc & Lab Delivery 20-04-20 | 08 | 3,453.17 |
| | PACIFIC COURIERS INC | \$ | 3,453.17 |
| ACH | PRIORITY BUILDING SERVICES LLC April 2020 Janitorial Service 68813 | | 17,289.36 |
| | PRIORITY BUILDING SERVICES LL | C\$ | 17,289.36 |
| ACH | AMAZON BUSINESS Franklin Covey Leather Cover 1MW1-XGG 11 Sludge Judge Sampler System 13JP-N47 Dry Erase Laminated Wall Calendar 1G7K-HVV 4 Canopy Fittings Coupling Connectors 1MH3-6NQ Dry Erase Boards, Modular Organizer, Sanit 1GH7-3KX Surge Protector Power Strip 14DT-HNM 10 Gate Warning Signs 1MX7-PCC | W-GL7 N-L9H 6-KK1 3-RVX J-9GF | 92.87 1,786.73 37.66 365.24 1,476.81 53.80 77.05 |
| | AMAZON BUSINESS | \$ | 3,890.16 |
| ACH | TRANSENE COMPANY INC | | |

| | : ZFIR TREASURER Inland Empire Utiliti /01/2020 ~ 05/31/2020 Treasurer Report | Les Agency | Page 35 Date 06/13/2020 |
|-------|--|---|---|
| Check | Payee / Description | | Amount |
| | Red/Blue/Yellow Buffer Solutions | 179689 | 729.76 |
| | TRANSENE COMPANY INC | \$ | 729.76 |
| ACH | PRO-CRAFT CONSTRUCTION INC HQB Breakroom Floor Sink Stoppage Repair HQB Restrooms Toilet Maintenance | 18002-18 | 1,213.00 1,674.00 |
| | PRO-CRAFT CONSTRUCTIO | ON INC \$ | 2,887.00 |
| ACH | THE SOLIS GROUP EN14042-3/1-3/31 Prof Svcs EN13048-3/1-3/31 Prof Svcs EN17049-3/1-3/31 Prof Svcs WR15021-3/1-3/31 Prof Svcs | 5529 5528 5526 5527 | 1,881.00 79.50 1,817.00 1,817.00 |
| | THE SOLIS GROUP | \$ | 5,594.50 |
| ACH | RBC RESOURCES WR20028/WR20029-4/1-4/30 Prof Svcs | 16 | 5,236.00 |
| | RBC RESOURCES | \$ | 5,236.00 |
| ACH | CAPO PROJECTS GROUP LLC February 2020 Professional Services March 2020 Professional Services | 3661 3705 | 1,305.00 2,175.00 |
| | CAPO PROJECTS GROUP I | LLC \$ | 3,480.00 |
| ACH | VCLOUD TECH INC SolarWinds Network Licenses w/lst Year M | 12997-0 | 44,383.90 |
| | VCLOUD TECH INC | \$ | 44,383.90 |
| ACH | SO CALIF EDISON I/WLn-4/16-5/18 34 East End-Grand MWDTrnt18-4/16-5/18 13400 Betsy Ross Ct MWDCB14/20-4/16-5/18 5752 East Ave/475 1 MntclSpltBx-4/16-5/18 11294 Roswell Ave VctrBsn/MWDCB11-4/17-5/19 Victoria St/Ba 930RsvrPrjct-4/22-5/22 2950 Galloping Hi | 2305258691 5, 3045296064 5, 2264009051 5, | / 27.62 / 142.38 / 51.21 / 88.17 |
| | SO CALIF EDISON | \$ | 443.90 |
| ACH | FOUNDATION HA ENERGY GENERATIO RP4/RWPS-4/1-4/30 12811 6th St-Wind Powe | 2586 | 2,741.57 |
| | FOUNDATION HA ENERGY | GENERATIO\$ | 2,741.57 |
| ACH | HUBER, JENNIFER Reim-CWEA Certificate Renewal 2020 | 33986I 2020 | 192.00 |
| | HUBER, JENNIFER | \$ | 192.00 |
| ACH | MCCHRISTY, KAREN Reim-5/14/20 Printer Ink, Hand Sanitizer | 5/14/20 OFF | S 77.63 |
| | MCCHRISTY, KAREN | \$ | 77.63 |

| Report For 05 | : ZFIR TREASURER Inland Empire Utilit /01/2020 ~ 05/31/2020 Treasurer Report | ies Agency | Page 36 Date 06/13/2020 |
|------------------|--|--------------------------|----------------------------|
| Check | Payee / Description | | Amount |
| ACH | EMPOWER RETIREMENT P/R 11 5/22/20 Deferred Comp Ded Adj P/R 11 5/22/20 Deferred Comp Ded | 052220 ADJ HR 0088300 | 2,025.00- 82,205.03 |
| | EMPOWER RETIREMENT | \$ | 80,180.03 |
| ACH | EMPOWER RETIREMENT P/R 9 4/24/20 Deferred Comp Ded | HR 0087700 | 76,008.16 |
| | EMPOWER RETIREMENT | \$ | 76,008.16 |

Grand Total Payment Amount: \$ 5,528,015.23

Attachment 2D

Vendor Wires (excludes Payroll)

| Report For 05 | : ZFIR TREASURER /01/2020 ~ 05/31/2020 | Inland Empire Uti Treasurer Report | | jency | Page 1 Date 06/13/2020 |
|------------------|---|---------------------------------------|----------|------------------------|---------------------------|
| Check | Payee / Description | | | | Amount |
| Wire | EMPLOYMENT DEVELOPM P/R DIR 5 5/8/20 Ta | | HR | 0088100 | 400.18 400.18 |
| | | | | AKIII | 100.10 |
| Wire | INTERNAL REVENUE SE P/R DIR 5 5/8/20 Ta: | | HR | 0088100 | 2,562.64 |
| | | INTERNAL REVENUE | SERVICE | \$ | 2,562.64 |
| Wire | STATE DISBURSEMENT P/R 10 5/8/2020 P/R 10 5/8/2020 | UNIT | HR HR | 0088200 0088200 | 3,294.44 |
| | | STATE DISBURSEMEN | T UNIT | \$ | 3,492.44 |
| Wire | EMPLOYMENT DEVELOPM P/R 10 5/8/2020 Tax P/R 10 5/8/2020 Tax | es | HR HR | 0088200 0088200 | 58,750.38 12,362.26 |
| | | EMPLOYMENT DEVELO | PMENT DE | PARTM\$ | 71,112.64 |
| Wire | INTERNAL REVENUE SE P/R 10 5/8/2020 Tax | | HR | 0088200 | 329,968.06 |
| | | INTERNAL REVENUE | SERVICE | \$ | 329,968.06 |
| Wire | PUBLIC EMPLOYEES' R 5/20 Health Ins-Ret 5/20 Health Ins-Boa | irees,Employees | | 5652 5/20 5657 5/20 | 272,286.87 7,253.15 |
| | | PUBLIC EMPLOYEES' | RETIREM | ent s\$ | 279,540.02 |
| Wire | PUBLIC EMPLOYEES RE P/R 10 5/8/2020 Adj P/R 10 5/8/2020 PER | ustment | P/R I | 10 5/8 AD 0088200 | 12.53- 190,981.84 |
| | | PUBLIC EMPLOYEES | RETIREME | T SY\$ | 190,969.31 |
| Wire | METROPOLITAN WATER March 2020 Water Pu | | 10020 |) | 2,197,261.50 |
| | | METROPOLITAN WATE | R DISTRI | CT \$ | 2,197,261.50 |
| Wire | STATE DISBURSEMENT P/R 11 5/22/20 P/R 11 5/22/20 | UNIT | HR HR | 0088300 0088300 | |
| | , , , | STATE DISBURSEMEN | T UNIT | \$ | 3,492.44 |
| Wire | EMPLOYMENT DEVELOPM P/R 11 5/22/20 Taxe P/R 11 5/22/20 Taxe | s | HR HR | 0088300 0088300 | |
| | 1/10 11 0/22/20 10HC | EMPLOYMENT DEVELO | | | 69,780.90 |
| P.7. | | | | | |
| Wire | INTERNAL REVENUE SE P/R 11 5/22/20 Taxe | | HR | 0088300 | 323,059.91 |

| Report For 05 | : ZFIR TREASURER Inland Empire Utilities Agency /01/2020 ~ 05/31/2020 Treasurer Report | Page 2 Date 06/13/2020 |
|------------------|--|---------------------------|
| Check | Payee / Description | Amount |
| | INTERNAL REVENUE SERVICE \$ | 323,059.91 |
| Wire | PUBLIC EMPLOYEES RETIREMENT SY P/R 11 5/22/20 PERS HR 0088300 P/R 11 5/22 PERS Adj P/R 11 5/22 A | 186,921.47 11.61 |
| | PUBLIC EMPLOYEES RETIREMENT SYS | 186,933.08 |
| Wire | STATE BOARD OF EQUALIZATION 4/20 Sales Tax Deposit 23784561 4/20 | 7,375.00 |
| | STATE BOARD OF EQUALIZATION \$ | 7,375.00 |

Grand Total Payment Amount: \$ 3,665,948.12

Attachment 2E

Payroll-Net Pay-Directors

INLAND EMPIRE UTILITIES AGENCY

Ratification of Board of Directors

Payroll for May 8 ,2020 Presented at Board Meeting on July 15, 2020

| DIRECTOR NAME | GROSS PAYROLL | NET PAYROLL |
|------------------|---------------|-------------|
| Jasmin Hall | \$3,052.32 | \$1,895.67 |
| Katherine Parker | \$3,978.24 | \$1,274.43 |
| Michael Camacho | \$4,504.74 | \$1,695.10 |
| Steven J. Elie | \$5,198.24 | \$1,666.16 |
| Paul Hofer | \$0.00 | \$0.00 |
| TOTALS | \$16,733.54 | \$6,531.36 |

| | Count | Amount |
|------------------------|-------|------------|
| TOTAL EFTS PROCESSED | 4 | \$6,531.36 |
| TOTAL CHECKS PROCESSED | 0 | \$0.00 |
| CHECK NUMBERS USED | N | /A |

DIRECTOR PAYSHEETS IEUA/MWD/IERCA CBWM (alternate)/

CBWB (alternate)/SAWPA (alternate)

(Page 1 of 2)

MICHAEL CAMACHO EMPLOYEE NO. 1140 ACCOUNT NO. 10200 120100 100000 501010

APRIL 2020

| DATE | TYPE OF MEETING | ATTENDANCE | TOTAL COMPENSATION |
|-------------|--|---------------------|-----------------------|
| 04-07-20 | IEUA – Telecon mtg. w/General Manager S. Deshmukh | Yes (staff) | \$-0- |
| 04-09-20 | IEUA – Southern Coalition/Inland Caucus Mtg. Conference Call | Yes | \$260.00 |
| 04-13-20 | MWD – Standing Committee Meetings via Zoom | Yes | \$260.00 |
| 04-14-20 | IEUA – CBRFA/IEUA Board Meeting Dry Run (Microsoft Teams/Granicus) | Yes (same day) | \$-0~ |
| 04-14-20 | MWD – Standing Committee and Board Meetings via Zoom | Yes | \$260.00 |
| 04-15-20 | IEUA – CBRFA/IEUA Board Meeting via Microsoft Teams | Yes | \$260.00 |
| 04-22-20 | IEUA – Leadership Consulting Meeting via Zoom | Yes | \$260.00 |
| 04-23-20 | CBWM – Board Meeting via Gotomeeting | Yes | \$260.00 |
| 04-24-20 | IEUA – Telecon mtg. w/B. Bowcock re CBWM & Agency business | Yes | \$260.00 |
| 04-27-20 | IEUA – Telecon Mtg. w/J. Curatalo/CVWD re: Agency business | Yes | \$260.00 |
| 04-28-20 | MWD – Other Committee Meetings via Zoom | Yes | \$260.00 |
| 04-29-20 | CBWB – Board Meeting via Microsoft Teams | Yes | \$260.00 |
| IEUA/MWD/II | IMBURSEMENT ERCA f service per month per Ordinance No. 105, in | al. dia MWD marking | \$2,600.00 |

DIRECTOR PAYSHEETS IEUA/MWD/IERCA CBWM (alternate)/

CBWB (alternate)/SAWPA (alternate)

(Page 2 of 2)

| CBWM | |
|---|----|
| Up to 10 days of service per month per Ordinance No. 105 (i.e., \$135.00 – difference | |
| between Watermaster \$125.00 and Agency meetings \$260.00 (eff. 7/01/19), including MWD meetings. Chino Basin Watermaster does not compensate an alternate Director | |
| unless the alternate Director is attending on behalf of an absent primary Director. In | |
| accordance to Ordinance No. 98, Section 1, (i) Attendance at any meeting provided for | |
| under Sections 1.b, c, e, and f, shall also include payment to both the primary | |
| representative and the alternate representative to said body if they both attend said | |
| meeting. Record full amount on timesheet for attendance by alternates | |
| CBWB | |
| Up to 10 days of service per month per Ordinance No. 105. (i.e., \$160.00 – difference | |
| between CBWB (\$100.00 and Agency meetings \$260.00 (eff.7/01/19), including MWD meetings. CBWB pays directly to IEUA. Record full amount on timesheet. | |
| SAWPA | |
| Up to 10 days of service per month per Ordinance No. 105 (i.e., \$50.00 – difference | |
| between SAWPA (\$220.00 (eff. 1/20) and Agency meetings \$260.00 (eff. 7/01/19), | |
| including MWD meetings. SAWPA pays both primary and alternate for attendance, | |
| including mileage. | |
| | |
| | |
| Total No. of Meetings Attended | 12 |
| Total No. of Meetings Paid | 10 |

DIRECTOR SIGNATURE

Michael Camacho, Director

Stiviaji Deshmulh

DIRECTOR PAYSHEETS IEUA/CBWM/ CBWB CDA - alternate

(Page 1 of 2)

STEVEN J. ELIE EMPLOYEE NO. 1175 ACCOUNT NO. 10200 120100 100000 501010

APRIL 2020

| DATE | TYPE OF MEETING | ATTENDANCE | TOTAL COMPENSATION |
|--|---|---|--------------------|
| 04-03-20 | IEUA – Water Now Alliance (WNA) COVID-19 Response Peer-to-Peer Webcast (Panelist) via Zoom | Yes | \$260.00 |
| 04-07-20 | IEUA – Water Now Alliance (WNA) Leadership Conference Call | Yes | \$260.00 |
| 04-14-20 | IEUA – Chino Valley Corona Virus Leadership Update | Yes | \$260.00 |
| 04-14-20 | IEUA – CBRFA/IEUA Board Meeting Dry Run (Microsoft Teams/Granicus) | Yes (same day) | \$-0- |
| 04-15-20 | IEUA – CBRFA/IEUA Board Meetings via Microsoft Teams | Yes | \$260.00 |
| 04-17-20 | IEUA – SCWC Executive Committee Conference call | Yes | \$260.00 |
| 04-21-20 | IEUA – Mtg. w/S. Rose & J. Scott-Coe (MVWD) Conference Call | Yes | \$260.00 |
| 04-23-20 | CBWM – Board Meeting via Gotomeeting | Yes (decline pymt.) | \$-0-* |
| 04-24-20 | IEUA – SCWC Quarterly Board Meeting Conference Call | Yes | \$260.00 |
| 04-28-20 | Chino Hills City Council Meeting via Zoom | Yes | \$260.00 |
| 04-29-20 | CBWB – Chino Basin Water Bank Board Meeting via Microsoft Teams Meeting | Yes | \$260.00 |
| 04-30-20 | CBWM Mtg. w/Dir. Elie & CBWM GM P Kavounas via Microsoft Teams | Yes (decline pymt.) | \$-0-* |
| 04-30-20 | IEUA – CBP Ad Hoc Committee Meeting via Microsoft Teams | Yes | \$260.00 |
| IEUA | IMBURSEMENT | | \$2,600.00 |
| \$260.00 (eff. 0 | of service per month per Ordinance No. 105, including 07/01/19). IEUA pays both primary and alternate for at | | |
| \$260.00 (eff. 0 – difference be Chino Basin W | of service per month per Ordinance No. 105, including 7/01/19). IEUA pays both primary and alternate for attetween Watermaster \$125.00 and Agency meetings \$26/atermaster does not compensate an alternate Director and ing on behalf of an absent primary Director. In according | endance. (i.e., \$135.00 i0.00 (eff. 7/01/19). unless the alternate | |

DIRECTOR PAYSHEETS IEUA/CBWM/ CBWB

CDA - alternate

(Page 2 of 2)

| No. 98, Section 1, (i) Attendance at any meeting provided for under Sections 1.b, c, e, and f, shall also include payment to both the primary representative and the alternate representative to said body if they both attend said meeting. Record full amount on timesheet for attendance | |
|---|----|
| by alternates | |
| CDA | |
| Up to 10 days of service per month per Ordinance No. 105 (i.e., \$120.00 – difference between CDA (\$150.00 and Agency meetings \$260.00 (eff.7/01/19), including MWD meetings. CDA pays directly to IEUA. Record full amount on timesheet. | |
| CBWB | |
| Up to 10 days of service per month per Ordinance No. 105. (i.e., \$160.00 - difference between CBWB (\$100.00 and Agency meetings \$260.00 (eff.7/01/19), including MWD meetings. CBWB pays directly to IEUA. Record full amount on timesheet. | |
| Total No. of Meetings Attended | 13 |
| Total No. of Meetings Paid | 10 |

*Decline IEUA portion of CBWM

DIRECTOR SIGNATURE

Steven J. Elie, Director

DIRECTOR PAYSHEETS IEUA

(Page 1 of 1)

JASMIN A. HALL EMPLOYEE NO. 1256 ACCOUNT NO. 10200 120100 100000 501010

APRIL 2020

| DATE | TYPE OF MEETING | ATTENDANCE | TOTAL COMPENSATION |
|----------|--|----------------|--------------------|
| 04-09-20 | IEUA – CASA Board of Directors teleconference | Yes | \$260.00 |
| 04-13-20 | IEUA – Teleconference Meeting w/GM S. Deshmukh | Yes (staff) | \$-0- |
| 04-13-20 | IEUA – Assembly Member F. Rodriguez' Town Hall Telecon Meeting | Yes | \$260.00 |
| 04-13-20 | IEUA – San Bernardino County Town Hall Meeting via Zoom | Yes (same day) | \$-0- |
| 04-14-20 | IEUA – CBRFA/IEUA Board Meetings dry run (Microsoft Teams/Granicus) | Yes | \$260.00 |
| 04-15-20 | IEUA – CBRFA/IEUA Board Meetings | Yes | \$260.00 |
| 04-16-20 | IEUA – Virtual WEEA Meeting via Microsoft Teams | Yes | \$260.00 |
| 04-16-20 | IEUA – Latest Corona Virus Research Update Webcast | Yes (same day) | \$-0- |
| 04-20-20 | IEUA – Meeting w/C Hays to discuss business activity updates teleconference | Yes | \$260.00 |
| 04-20-20 | IEUA – CASA Membership teleconference Committee Meeting | Yes (same day) | \$-0- |
| 04-20-20 | IEUA – SARBS Board Installation via Zoom | Yes (same day) | \$-0- |
| 04-22-20 | IEUA – Meet with General Manager S. Deshmukh and L. Dye via Microsoft Teams | Yes (staff) | \$-0- |
| 04-22-20 | IEUA – Part two: Leveraging FEMA and other Federal Grant Funding Opportunities for COVID-19 Webcast | Yes | \$260.00 |
| 04-22-20 | IEUA – Water Advocacy Update and to Virtually Lobby Congress during Water Week via GoToWebinar | Yes (same day) | \$-,0- |
| 04-23-20 | IEUA – CASA Air Quality, Climate Change, and Energy Workgroup Meeting via Zoom Webinar | Yes | \$260.00 |
| 04-23-20 | IEUA – SCWC Stormwater Task Force Meeting via Zoom | Yes (same day) | \$-0- |

DIRECTOR PAYSHEETS IEUA/MWD SAWPA-alternate

(Page 2 of 2)

| 04-30-20 | IEUA – SCWC Trust Matters: Building and Maintaining Confidence through Communications via Zoom | Yes | \$260.00 |
|-----------------------|--|----------------|------------|
| 04-30-20 | IEUA – CAAWEF Board call telecon | Yes (same day) | \$-0- |
| IEUA Up to 10 days | CIMBURSEMENT of service per month per Ordinance No. 105, including 7/01/19). IEUA pays both primary and alternate for att | | \$2,340.00 |
| Total No. of | Meetings Attended | | 18 |
| Total No. of | Meetings Paid | | 9 |

DIRECTOR SIGNATURE

Jasmin Hall, Vice President

DIRECTOR PAYSHEETS IEUA/IERCA REGIONAL POLICY (alternate)

(Page 1 of 1)

PAUL HOFER EMPLOYEE NO. 1349 ACCOUNT NO. 10200 120100 100000 501010

APRIL 2020

| DATE | TYPE OF MEETING | ATTENDANCE | TOTAL COMPENSATION |
|------------------------------------|---|----------------------|--------------------|
| 04-14-20 | IEUA – CBRFA/IEUA Board Meeting Dry Run (Microsoft Teams/Granicus) | Yes | \$-0- |
| 04-15-20 | IEUA – CBRFA Commission Mtg & IEUA Board Meeting via Microsoft Teams | Yes | \$-0- |
| IEUA/IERCA Up to 10 days of | MBURSEMENT service per month per Ordinance No. 105, in | | \$-0- |
| | 7/01/19). IEUA pays both primary and alterr Committee Meeting | iate for attendance. | |
| (Up to 10 days o meetings at \$260 | f service per month per Ordinance No. 105, in .00 (eff. 07/01/19.) IEUA pays Regional Poli \$260.00, should reflect on timesheet) | | |
| Total No. of N | feetings Attended | man in a land | 2 |
| Total No. of N | leetings Paid | | 0 |

Director Hofer has waived all stipend payments.

DIRECTOR SIGNATURE

Paul Hofer, Director Deshmulh

IEUA DIRECTOR PAYSHEET IEUA/REGIONAL POLICY/ SAWPA/CDA/IERCA (alternate)

(Page 1 of 2)

KATI PARKER EMPLOYEE NO. 1362

ACCOUNT NO. 10200 1200100 100000 501010

APRIL 2020

| DATE | TYPE OF MEETING | ATTENDANCE | TOTAL COMPENSATION |
|--|---|---|--------------------|
| 04-02-20 | CDA - CDA Board Meeting via Zoom | Yes | \$260.00 |
| 04-07-20 | SAWPA – PA 24 and Commission Workshop via Zoom | Yes | \$40.00 |
| 04-13-20 | IEUA – Meeting w/Leadership Consultant via Skype | Yes | \$260.00 |
| 04-14-20 | IEUA – CBRFA/IEUA Board Meetings Dry Run (Microsoft Teams/Granicus) | Yes | \$260.00 |
| 04-15-20 | IEUA – CBRFA/IEUA Board Meetings via Microsoft Teams | Yes | \$260.00 |
| 04-21-20 | SAWPA – Regular Commission Meeting via Zoom | Yes | \$40.00 |
| 04-30-20 | IEUA – CBP Ad Hoc Committee Meeting via Microsoft Teams | Yes | \$260.00 |
| IEUA/IERCA Up to 10 days o \$260.00 (eff. 07. Regional Policy (Up to 10 days o \$260.00 (eff. 07. \$260.00, should) SAWPA Up to 10 days o SAWPA (\$220. meetings. SAW CDA Up to 10 days o \$260.00 (eff. 7/6 | f service per month per Ordinance No. 105, including (01/19). IEUA pays both primary and alternate for attention of service per month per Ordinance No. 105, including (01/19.) IEUA pays Regional Policy Committee membreflect on timesheet) f service per month per Ordinance No. 105 (i.e., \$40.0 (off. 1/20) and Agency meetings \$260.00 (off. 7/01) (PA pays both primary and alternate for attendance, in f service per month per Ordinance No. 105, including (01/19). Chino Desalter Authority will pay \$150.00 per d full amount on timesheet. CDA pays both primary and full amount on timesheet. CDA pays both primary and full amount on timesheet. CDA pays both primary and full amount on timesheet. | MWD meetings at bers (total amount of of of difference between of cluding MWD cluding mileage. MWD meetings at meeting directly to the | \$1,380.00 |
| | | | 7 |

IEUA DIRECTOR PAYSHEET IEUA/REGIONAL POLICY/ SAWPA/CDA/IERCA (alternate)

(Page 2 of 2)

Stiriaji Deshmukh

| Total No. of Me | etings Paid | 7 |
|-----------------------|------------------------|---|
| DIRECTOR SIGNATURE | Kati Parker, President | |

Attachment 2F

Payroll-Net Pay-Employees

| Non-Board Members | PP 10 Checks | PP 10 EFTs | PP 11 Checks | PP 11 EFTs | May |
|-------------------|--------------|--------------|--------------|--------------|----------------|
| NET PAY TO EE | \$0.00 | \$759,915.57 | \$0.00 | \$758,630.79 | \$1,518,546.36 |

INLAND EMPIRE UTITLIES AGENCY

Payroll for May 8, 2020

Presented at Board Meeting on July 15, 2020

| GROSS PAYROLL COSTS | | | \$1,379,007.09 |
|-----------------------|--------|--------------|----------------------|
| DEDUCTIONS | | | (\$619,091.52) |
| NET PAYROLL | | | 759,915.57 |
| NET PAYROLL BREAKDOWN | CHECKS | EFT | TOTAL |
| CHECKS USED | | | |
| TRANSACTION PROCESSED | 0 | 360 | 360 |
| AMOUNT | \$0.00 | \$759,915.57 | \$ <u>759,915.57</u> |
| | | | |

INLAND EMPIRE UTITLIES AGENCY

Payroll for May 22, 2020

Presented at Board Meeting on July 15, 2020

| GROSS PAYROLL COSTS | | | \$1,369,956.72 |
|-----------------------|--------|--------------|----------------|
| DEDUCTIONS | | | (\$611,325.93) |
| NET PAYROLL | | | 758,630.79 |
| NET PAYROLL BREAKDOWN | CHECKS | EFT | TOTAL |
| CHECKS USED | П | | |
| TRANSACTION PROCESSED | | 359 | 359 |
| AMOUNT | \$0.00 | \$758,630.79 | \$758,630.79 |
| | | | |

CONSENT CALENDAR ITEM

2C



Date: July 15, 2020

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

Committee: Engineering, Operations & Water Resources 07/08/20

Finance & Administration 07/08/20

Executive Contact: Christiana Daisy, Executive Manager of Engineering/AGM

Subject: Sale of Etiwanda Waste Line Capacity Units

Executive Summary:

The Monte Vista Water District (MVWD) is constructing an ion exchange water treatment plant known as Plant 30 located at 5616 San Bernardino St. in Montelair as identified on the (Attachment A) San Bernardino County Assessor Parcel Map. The facility is designed to pump and treat groundwater containing high levels of Nitrate and 1,2,3 Trichloropropane (TCP). The MVWD has submitted a capacity right application requesting to purchase seven (7) Etiwanda Waste Line Capacity Units and a check in the amount of \$1,505,000 for the 7 capacity units, to discharge brine wastewater at a rate not to exceed 105 gallons per minute from regeneration of its ion exchange and water softening systems.

The IEUA Ordinance No. 99 defines the manner in which MVWD may obtain and utilize Capacity Rights through Agreement with IEUA and sets forth the provisions governing disposal of wastewater into the Etiwanda Waste Line. Staff has verified there is available pipeline capacity for this brine discharge and the requested amount will meet the site's needs. The Capacity Right Agreement has been reviewed by the IEUA's General Counsel.

Staff's Recommendation:

- 1. Approve the sale of seven (7) Etiwanda Waste Line capacity units to MVWD Plant 30 for \$1,505,000; and
- 2. Authorize the General Manager to execute the Capacity Right Agreement, 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):

If approved, the Agency's Non-Reclaimable Wastewater (NC) Fund will be increased by \$1,505,000 from the sale of seven capacity units in FY 2019/20.

Prior Board Action:

None

Environmental Determination:

Not Applicable

Business Goal:

The sale of seven capacity units to MVWD Plant 30 is consistent with IEUA's Business Goal of Environmental Stewardship by meeting federal, state and local pretreatment regulations, helping to ensure protection of the water recycling plants, and safeguarding public health and the environment.

Attachments:

Attachment 1 - Powerpoint

Attachment 2 - Capacity Right Agreement No. 4600002894

Board-Rec No.: 20150

Sale of Etiwanda Waste Line Capacity Units









Recommendation

- 1. Approve the sale of seven (7) Etiwanda Waste Line capacity units to MVWD Plant 30 for \$1,505,000; and
- 2. Authorize the General Manager to execute the Capacity Right Agreement, subject to non-substantive changes.

The sale of seven capacity units to MVWD Plant 30 is consistent with *IEUA's Business Goal* of *Environmental Stewardship* by meeting federal, state, and local pretreatment regulations, helping to ensure protection of the water recycling plants, and safeguarding public health and the environment.



CAPACITY RIGHT AGREEMENT Agreement No. 4600002894

| THIS AGREEMENT is made and entered into this | day of | , 2020, between |
|--|----------------------------|----------------------|
| Inland Empire Utilities Agency, a Municipal Water | District, hereinafter call | ed "the Agency", and |
| the Monte Vista Water District, hereinafter referred | to as "User". | |

WHEREAS, the Agency owns and operates a system of pipelines for disposal of non-reclaimable and industrial wastewater, hereinafter called "Disposal System"; and

WHEREAS, the Agency's Board of Directors has adopted Ordinance No. 99, which ordains the manner in which a person may obtain and utilize Capacity Rights through Agreement with the Agency and sets forth provisions governing disposal of wastewater into the Disposal System. As used herein, Ordinance No. 99 includes any amendments or successor ordinances thereto; and

WHEREAS, User owns and operates an ion exchange water treatment facility to treat groundwater located in the City of Montclair, CA, identified on the attached (Exhibit A) Assessor Parcel Map APN: 1010-081-04-0000 of the County of San Bernardino, State of California; and

WHEREAS, User has reviewed Ordinance No. 99 and, pursuant to its terms and conditions, desires to purchase seven (7) capacity units to secure the right to dispose of ion exchange regeneration and water softener backwash to the Disposal System.

NOW, THEREFORE, IT IS AGREED between the Agency and User as follows:

- 1. INCORPORATION OF ORDINANCE. Ordinance No. 99, adopted by the Agency on June 18, 2014, and amended from time to time thereafter, is incorporated as part of this Agreement as set forth in full.
- 2. COMPLIANCE WITH ORDINANCE. User agrees to discharge only such wastes that are acceptable to the Agency and shall comply with all provisions of Ordinance No. 99 and any amendments thereto.
- 3. APPLICABLE REAL PROPERTY. The Capacity Right herein agreed upon applies to the real property described in Exhibit "A" attached and made a part hereof. User shall not convey title to said Capacity Right, sublet or rent the use of said Capacity Right or, in any manner, permit the use of said Capacity Right by others.
- 4. INITIAL CAPACITY CHARGE AND CAPACITY RIGHT. User, in consideration of this Agreement, agrees to pay the Agency the sum of One Million Five Hundred Five Thousand dollars (\$1,505,000) for the seven (7) Capacity Units. The Agency, in

consideration of User's request, agrees to provide User seven (7) Capacity Units and the qualified right to discharge a quantitative maximum discharge limit not to exceed one hundred five (105) gallons per minute.

5. SERVICE CHARGE. User, in consideration of this Agreement, agrees to pay the Agency the applicable monthly wastewater service charge including, but not limited to, the volumetric, capacity and strength charge, capital improvement program charge, and operation and maintenance charge, if applicable, as established and required by the Agency's resolution or amendment to Ordinance No. 99, which is adopted from time to time by the Agency's Board of Directors. The Agency shall invoice User directly for this charge.

IN WITNESS THEREOF, the Agency and User have executed this Agreement on the date first above written.

Inland Empire Utilities Agency ("the Agency")

| By/Signature: | | | |
|---------------|-------------------------|---------------|-------------------------------|
| Name: | Shivaji Deshmukh | | |
| Title: | General Manager | | |
| | | | |
| Monte Vista | Water District ("User") | | |
| By/Signature: | | By/Signature: | Sandra'S. Rose |
| Name: | Justin M. Scott-Coe | Name: | Sandra S. Rose |
| Title: | General Manager | Title: | President, Board of Directors |

Attachment A

Property Information Management System

San Bernardino County
Office of the Assessor



PROPERTY INFORMATION REPORT FOR PARCEL 1010-081-04-0000



Property Information

Property Address (Main Situs) Protected per CA. Govt. Code

Sect. 6254.21

Protected per CA. Govt. Code

Sect. 6254.21

Owner and Mailing Address MONTE VISTA COUNTY WATER

DISTRICT

Protected per CA. Govt. Code

Sect. 6254.21

Protected per CA. Govt. Code

Sect. 6254.21

Effective Date 02/28/1973

Parcel 1010081040000

Parcel Status ACTIVE

Parcel Type REAL PROPERTY

Property ID

Tax Status EXEMPT FROM

ASSESSMENT

Use Code VACANT

Land Access

Size 0 TO 4,999 SQ. FEET

Land Type PUBLIC FACILITIES

District ONTARIO

Resp Group SPECIAL PROPERTY

Resp Unit COMMERCIAL ZONE OR

USE

Current Owners

Name MONTE VISTA COUNTY WATER DISTRICT

Document Numbers

R/I SOLE OWNER

% Int 0.0000000

Type BILLED OWNER

Acquisition Date NONE

Document Date NONE

Inactive Date NONE

Legal Parcel Map

| Parcel Map Parcel Nbr Unit Book Page |
|--------------------------------------|
|--------------------------------------|

1010081040000

Legal Description

MONTE VISTA TRACT N 165 FT W 264 FT LOT 1 BLK 9 MEAS TO ST C/L .84 AC

No Legal Reason for Change Found

No Active Homeowner's Exemptions Found

Ptn. Monte Vista Tract, M.B. 11/34 City of Montclair Tax Rate Area 11008 THIS MAP IS FOR THE PURPOSE OF AD VALOREM TAXATION ONLY. 1008 SAN BERNARDINO 04) (01) 05) 02) 4.09 AC. 03 4.78 AC. 05) 8.01 AC. (07)

> Ptn. N.E.1/4, Sec.23 T.1S.,R.8W.

Assessor's Map Book 1010 Page 08 San Bernardino County

1010 - 08

09

REVISED

October 2004

CONSENT CALENDAR ITEM

2D



Date: July 15, 2020

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

Committee: Engineering, Operations & Water Resources 07/08/20

Executive Contact: Christiana Daisy, Executive Manager of Engineering/AGM

Subject: 2020 Land Use Demand Model

Executive Summary:

In 2015, a land use demand model (Model), based on General Plan land use data, was developed as part of the 2015 IEUA Urban Water Management Plan (UWMP). The Model is capable of forecasting water demands in the IEUA service area. The development of the Model was supported by city/retail agencies and used for their UWMPs. IEUA intends to update the Model based on current General Plans and also develop unit use factors to project demands for water, recycled water, and wastewater in 5-year increments to the furthest build-out date.

On February 2020, a Request for Proposal (RFP), with a scope of work developed with input from the Regional Technical Committee, was issued. Two proposals were received in April 2020 and evaluated by staff. During discussions with Chino Basin Watermaster (Watermaster), it was identified that efficiencies would be gained by having the Model update performed by Watermaster's consulting engineer, Wildermuth Environmental, Inc. (WEI). As a result, the RFP was canceled with no further action taken. The effort is proposed to be funded at a 50/50 cost between IEUA and Watermaster. The Regional Technical Committee recommended approval during its June 25, 2020 meeting.

Staff's Recommendation:

- 1. Approve Task Order No. 6 with Chino Basin Watermaster for the 2020 Land Use Demand Model by Wildermuth Environmental, Inc. for the not-to-exceed amount of \$232,277.00; and
- 2. Authorize the General Manager to finalize and execute the Task Order, subject to non-substantive changes.

Budget Impact Budgeted (Y/N): Y Amendment (Y/N): N Amount for Requested Approval: \$232,277 Account/Project Name:

2020 Land Use-Based Demand Model Update, Project PL20002 - \$116,138.50 (water fund) RO Planning Documents, Project PL17001 - \$116,138.50 (wastewater fund)

Fiscal Impact (explain if not budgeted):

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

Prior Board Action:

N/A

Environmental Determination:

Not Applicable

Business Goal:

The Land Use Demand Model update aligns with IEUA's Business Goals of Water Reliability, Wastewater Management, and Fiscal Responsibility by supporting regional water and wastewater forecasting and planning efforts.

Attachments:

Attachment 1 - Powerpoint

Attachment 2 - Land Use Demand Model Task Order No. 6

Board-Rec No.: 20152

2020 Land Use Demand Model









Recommendation

- 1. Approve Task Order No. 6 with Chino Basin Watermaster for the 2020 Land Use Demand Model with Wildermuth Environmental, Inc. for the not-to-exceed amount of \$232,277.00; and
- 2. Authorize the General Manager to finalize and execute the Task Order, subject to non-substantive changes.

The 2020 Land Use Demand Model aligns with *IEUA's Business Goals* of *Water Reliability*, *Wastewater Management, and Fiscal Responsibility* by supporting regional water and wastewater forecasting and planning efforts.



MASTER AGREEMENT BETWEEN CHINO BASIN WATERMASTER AND INLAND EMPIRE UTILITIES AGENCY REGARDING THE MANAGEMENT OF COLLABORATIVE PROJECTS

TASK ORDER NO. 6 2020 LAND USE DEMAND MODEL

This Task Order is made and entered into as of the ____ day of July, 2020 by and between the Chino Basin Watermaster, hereinafter referred to as "Watermaster" and the Inland Empire Utilities Agency, hereinafter referred to as "IEUA" (each a "Party" and collectively, the "Parties").

In consideration of the mutual promises, covenants, and conditions as addressed in the Master Agreement between Chino Basin Watermaster and Inland Empire Utilities Agency Regarding Management of Collaborative Projects dated September 28, 2017 ("Master Agreement") and as specifically hereinafter set forth, the Parties do hereby agree as follows:

1. PURPOSE

The purpose of this Task Order is to govern the update of the Land Use Demand Model for IEUA. In 2015, a land use-based water demand model (Model) was developed as part of the 2015 IEUA Urban Water Management Plan (UWMP). The Model was based on General Plan land use data of existing and future development in each city and retail agency boundaries within the IEUA service area. The various land use categories were grouped into 13 main categories that were utilized for the development of corresponding water unit use factors and demands. This Model was capable of forecasting water demands for each city and retail agency in order to be totaled as a regional demand for the IEUA service area.

In anticipation of developing the 2020 IEUA UWMP, IEUA intends to update the 2015 Model to reflect existing and future Developments based on current General Plans with added unit use factors for water, recycled water, and wastewater demands in 5-year increments to the furthest build-out date. In communication between IEUA and Watermaster, it was recommended that the services of Watermaster's engineer, Wildermuth Environmental, Inc. (WEI) to update the Model would minimize duplication of efforts by both IEUA and Watermaster.

2. SCOPE

WEI will serve as the consultant to update the Model with oversight and input from IEUA and Watermaster. WEI and their subconsultant Karen Johnson will coordinate with each City and Retail agency to collect the relevant General Plan information to update the Model. All work will be completed in a timely manner and will meet the proposed schedule within reasonable circumstance. The request for proposal and planned scope of

work encompassed by this Task Order is attached hereto as **Exhibit A**.

3. <u>IEUA RESPONSIBILITIES</u>

IEUA agrees to provide project management and contract administration services that include, but are not limited to:

- Engagement and management of consulting services as needed;
- Coordination and communication with the project team;
- Providing access to associated available information and data; and,
- Payment of consultant invoices.

4. WATERMASTER RESPONSIBILITIES

Watermaster agrees that it and its employees and consultants will cooperate with IEUA and its contractors in the performance of services under this Task Order and will provide any necessary documentation and information in Watermaster's possession.

5. TOTAL BUDGET AND COST ALLOCATION

Unless the scope of work is changed, and an increase is authorized by the Parties, the total projected cost for the activities to be undertaken pursuant to this Task Order is Two hundred and thirty two thousand two hundred seventy seven dollars (\$232,277) ("Budget"). The Parties agree that the Budget will be shared 50/50.

6. MAXIMUM COSTS TO WATERMASTER

The costs to be required of Watermaster under this Agreement shall not exceed its share of the Total Budgeted Cost, as shown in Section 5 above, or \$116,138.50.

7. MAXIMUM COSTS TO IEUA

The costs to be required of IEUA under this Agreement shall not exceed its share of the Total Budgeted Cost, as shown in Section 5 above, or \$116,138.50.

8. <u>TERM</u>

Work to be undertaken pursuant to this Task Order shall be initiated upon the Effective Date, as described in Section 10, below. The terms of this Task Order shall remain effective until Watermaster's receipt of IEUA's share of costs expended, so that IEUA may close out the activities.

9. REIMBURSEMENT

IEUA's reimbursement of Watermaster for work performed under this Task Order shall be as provided in Article 3 of the September 2017 Master Agreement.

10. <u>EFFECTIVE DATE</u>

This Task Order No. 6 will become effective upon execution by both Parties.

| CHINO | BASIN WATERMASTER | |
|--------|---------------------------|---|
| | | |
| Ву | | _ |
| | PETER KAVOUNAS | _ |
| | General Manager | |
| | | |
| | | |
| | | |
| INLANI | D EMPIRE UTILITIES AGENCY | |
| | | |
| Ву | | |
| - / | SHIVAJI DESHMUKH | _ |
| | General Manager | |

IN WITNESS WHEREOF, the Parties have executed this Agreement on the day and year and at the

place first above written.



REQUEST FOR PROPOSALS

RFP-JV-20-003

FOR

CONSULTING SERVICES FOR THE 2020 LAND USE-BASED DEMAND MODEL UPDATE PROJECT NO. PL20002

FEBRUARY 2020

PROPOSALS DUE MARCH 26, 2020 BY 3:00 PM (PST)

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REQUEST FOR PROPOSALS

For

Consulting Services

For The

2020 LAND USE-BASED DEMAND MODEL UPDATE PROJECT NO. PL20002

FEBRUARY 2020

1. REQUEST FOR PROPOSALS

Proposals are being accepted by Inland Empire Utilities Agency (hereinafter referred to as "IEUA"), a Municipal Water District, for Consulting Services (hereinafter referred to as "Consultant") required for the 2020 Land Use-Based Demand Model Update (hereinafter referred to as "Model").

2. PROCESSING OF PROPOSALS

A non-mandatory pre-proposal meeting will be held on Tuesday, March 10, 2020 at 2:00 PM with prospective Consultants at IEUA Headquarters, located on 6075 Kimball Ave, Building B, Chino, California, 91708.

Any relevant questions concerning the Request For Proposals (RFP) for the Scope of Work other than those asked at the pre-proposal meeting shall be directed in writing to IEUA:

Liza Muñoz Inland Empire Utilities Agency P.O. Box 9020 Chino Hills, California 91708

Email: Imunoz@ieua.org

All questions must be received prior to 5:00 PM on March 16, 2020. The answers to these questions will be sent to all prospective Consultants. No answers will be given on an individual basis.

To receive consideration, 5 (five) copies of the proposal, one complete electronic copy of the proposal (provided on USB drive), and one separately sealed fee proposal envelope must be received at IEUA's Headquarters located on 6075 Kimball Ave, Building A, Chino, California, 91708 by 3:00 pm on March 26, 2020 and addressed to the attention of Liza Muñoz. The package of the five proposals and one electronic copy shall be clearly marked "Consulting Services for the 2020 Land Use-Based Demand Model Update – DO NOT OPEN" and the fee proposal envelope marked "FEE PROPOSAL - Consulting Services for the 2020 Land Use-Based Demand Model Update - DO NOT OPEN". All proposals will be held in confidence prior to the opening date of all proposals. IEUA reserves the right, after opening the proposals, to reject any or all proposals, or, to accept proposal(s) that in its sole judgment, are in the best interest of IEUA.

Prospective Consultants assume the risk of any delay in mail or handling of mail by IEUA's employees. Applicants are therefore responsible for ensuring that proposals are received on time at the specified

<u>location</u> by the specified time whether they are sent by mail or delivered in person. Oral, telegraphic, or telephonic proposals or modifications will not be considered. More than one proposal from an individual, firm, partnership, corporation or association under the same or different names shall not be considered.

3. IEUA DESCRIPTION

Inland Empire Utilities Agency (IEUA) is a regional sewage treatment and water agency that provides wastewater treatment, solids handling, and recycled water to the west end of San Bernardino county. Its 242 square mile service area includes the cities of Upland, Montclair, Ontario, Fontana, Chino and Chino Hills; Cucamonga Valley Water District which services the City of Rancho Cucamonga and the unincorporated areas of San Bernardino County, including the Chino Agricultural Preserve. IEUA, a special assessment district, is governed by a five seat publicly elected Board of Directors. Each director is assigned to one of the five divisions which are: Division 1 - Upland/Montclair; Division 2 - Ontario/ Agricultural Preserve; Division 3 - Chino/ Chino Hills; Division 4 - Fontana; Division 5 - Rancho Cucamonga. The Regional Technical and Policy Committees provide information on technical and policy issues, and there are representatives from each of the contracting agencies on these committees.

Five regional water recycling plants are used to treat wastewater from IEUA's service area. They are: Regional Water Recycling Plant No. 1 (RP-1), located in the City of Ontario; Regional Water Recycling Plant No. 2 (RP-2), located in the City of Chino; Regional Water Recycling Plant No. 4 (RP-4), located in the City of Rancho Cucamonga; and Carbon Canyon Water Recycling Facility (CCWRF), located in the City of Chino and Regional Water Recycling Plant No. 5 (RP-5), located in the City of Chino. In conjunction to these facilities, IEUA maintains and operates a desalter facility, Chino I Desalter, in the City of Chino and biosolids composting facility, Inland Empire Composting Facility, in the City of Rancho Cucamonga on behalf of the Chino Basin Desalter Authority and Inland Empire Regional Composting Authority, respectively. IEUA is also the Metropolitan Water District of Southern California (MWD) representative for the contracting agencies.

The water resource inventory for the IEUA service area is made up of Stormwater, Recycled Water, Local Surface Water, Groundwater, and Imported Water.

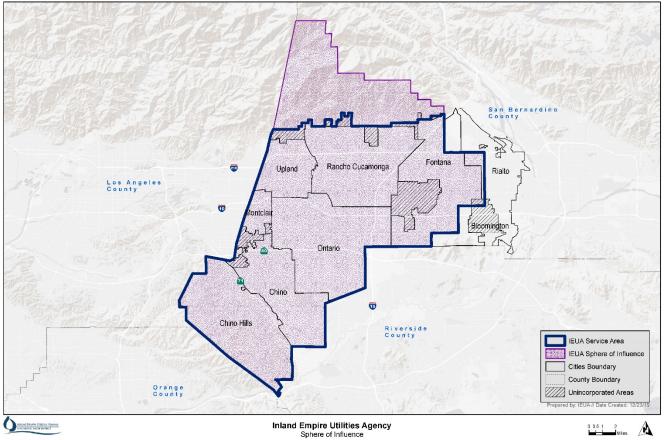
- Stormwater comes primarily from rain and snow starting in the San Gabriel Mountains and moving down through the Santa Ana watershed and diverted into groundwater recharge basins.
- Recycled water is generated from IEUA's four recycling plants.
- Local surface water is similar to stormwater, but the water is diverted and treated at a water treatment facility within the service area.
- Groundwater makes up for the majority of the area's annual water supply and comes primarily from the Chino basin and from basins adjacent to the Chino Basin. These basins include Cucamonga, Rialto, Lytle Creek, Colton, and the Six Basins groundwater basins.
- Imported water is purchased from MWD. The focus of this effort will primarily deal with recycled water and groundwater. The following provides a brief overview of these water supply sources.

4. PROJECT DESCRIPTION

IEUA is seeking professional services from a qualified consultant to update the comprehensive land use-based water demand model developed in 2015. The model will be based on the latest General Plan land use data and will incorporate existing and future development in the region for the next 25+ years. The model scenarios and corresponding results will support updates of the Urban Water Management Plan, Recycled Water Program Strategy, wastewater flow projections, Integrated Resources Plan and others. The model

boundary shall be IEUA's sphere of influence which includes the cities of Chino, Chino Hills, Fontana, Montclair, Ontario, Rancho Cucamonga, Rialto, and Upland. See Figure 1.

Figure 1 - IEUA Sphere of Influence



5. SCOPE OF WORK

The consultant shall perform the following tasks, including but not limited to:

- Review available information to familiarize with the extent and quality of existing information.
 - Land Use Based Demand Model Development Technical Memorandum May 2016
 - Land Use Based Demand Model in Excel format 2015
 - Land Use Based Demand Model in Access format 2015
- Review General Plans for each agency to identify existing and future development in land use. The
 consultant shall evaluate all relevant General Plans within the IEUA sphere of influence until a build-out
 date as specified in general plans.
- Coordinate with each City and Retail agency to collect the following information at a minimum:
 - Shapefiles that include General Plan land use category (existing, future, development/build out year) and acreage
 - Factors associated with each of the land use categories for: water, recycled water, and wastewater

- The land use data shall be formatted in a way that aligns with each City and Retail Agency boundary.
- The land use data shall also roll up to align with the IEUA sphere of influence boundary.
- Based on the updated City and Retail Agency's information, develop the following:
 - Consolidate the City and Retail Agency's land use categories into IEUA's land use categories, as developed during the 2015 Land Use-Based Demand Model, and provided below:

| Table 1: 2015 LAND USE CATEGORIES |
|---------------------------------------|
| Residential Very Low (1 – 2 AF/AC/YR) |
| Residential Low (3 – 7 AF/AC/YR) |
| Residential Medium (8 – 14 AF/AC/YR) |
| Residential High (15 – 24 AF/AC/YR) |
| Residential Very High (25+ AF/AC/YR) |
| Commercial |
| Industrial |
| Public/Institutional |
| Parks, Schools, Irrigation |
| Agriculture |
| Vacant |
| Non-Irrigated |
| Unique Water Users |
| |

- Develop/update unit factors for water, recycled water, and wastewater demands for each land category. Coordinate with each City and Retail agency on the unit factor development for their service area.
- These factors shall be applied to each land use category from Table 1 on a per-acre basis. The calculated demand per land use area shall be in acre-foot per acre (AF/AC) and incorporated into the overall demand forecast.
- The Model shall have a summary page indicating statistics for each City and Retail Agency, including but not limited to land use categories as shown in Table 1, corresponding unit factors; and water, recycled water and wastewater demands in 5-year increments beginning in 2020 through 2050.
- The Model and corresponding data shall be standardized in such a manner that will allow for streamlined data collecting, processing and updating from General Plans.
- Update adjustment factors based on socio-economic conditions, climate change, densification of existing lands, conservation, and unbilled consumption. Provide supporting narratives on how the adjustments were developed.
- Provide recommendations for Model improvements or efficiencies (i.e. user-friendly updates, scenario development, web-based model for consolidation of inputs, updates, scenarios, results) for IEUA's consideration.

- Meetings/Workshops Provide resources to lead meetings as described:
 - Kickoff meeting Attend a meeting with IEUA to discuss scope of work and schedule of completion.
 Duration of two hours.
 - As needed conference calls with IEUA for tracking progress and status updates. Duration of one hour per week.
 - Monthly meetings Once a month, a meeting to be held at IEUA headquarters to discuss progress and review interim model update demonstrations. Duration of two hours.
 - Agency meetings Coordinate and conduct at least four (4) meetings with each City and Retail Agency to obtain the data, develop unit factors and finalize the model update. Duration of two hours for each meeting to be held at City/Retail Agency offices.
 - Modeling Workshops Conduct two (2) workshops with IEUA and City/retail agencies: 1) a kickoff workshop to provide an overview of the data needs, collection process, Model update and schedule and 2) before the completion of the final deliverables, demonstrate demand forecasting for each City/Retail Agency and for the regional demand in the IEUA sphere of influence. Duration of four (4) hours for each workshop to be held at IEUA headquarters.

6. DELINEATION OF RESPONSIBILITIES

A. Responsibilities of the Consultant

IEUA intends to employ a Consultant who will provide the services necessary to complete the described scope of work. If the responsibility for any services required to complete the project are not specifically delineated herein, the Consultant is responsible for such activity.

- The Consultant shall keep IEUA informed at all times, on regular basis, the status of the project and inform IEUA of decisions regarding the project as they are made. The Consultant may be called upon to attend meetings during any phase of the work as required by IEUA to give technical advice or to inform various groups on the status or nature of the project.
- 2) Insurance: The Consultant shall provide insurance while executing the work required under any contract which may result from submittal of his/her proposal. The insurance shall be provided by a firm acceptable to IEUA and the firm shall insure the Consultant and any one directly or indirectly employed by the Consultant. The firm shall also provide additional insurance for the Agency, and its officers, agents, and employees under the policy or policies outlined in specific endorsement. Specific insurance requirements shall be as specified in the negotiated contract. A sample contract is attached to this Request for Proposal as Attachment H.
- 3) FEDERAL, STATE, AND LOCAL LAWS: The Bidder and all sub-Bidders shall comply with all applicable federal, state, and local laws, rules, and regulations including any permitting requirements and their related costs:
 - No contractor or subcontractor may be listed on a bid proposal for a public works project (Submitted on or after March 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)].

- No contractor or subcontractor may be awarded a contract for public work on a public works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.
- This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.
- 4) Invoices: The Consultant shall submit invoices on a monthly basis in accordance with the IEUA's invoice format.
- 5) Extra Work: If at any time during the project, the Consultant receives instructions outside the scope of work, he shall immediately notify IEUA and confirm the verbal statement in writing. No compensation will be made to the Consultant without a fully executed amendment prior initiating the extra work. If the nature of the instruction is such that an investigation is required to determine whether the work is outside the Consultant's contracted scope, the Consultant must notify IEUA within seven (7) calendar days of receiving the instruction. If IEUA does not receive the request for extra compensation within the seven days, no extra compensation will be paid for the work even if it is determined to be outside the Engineer's contracted scope.

B. Responsibilities of IEUA

IEUA shall provide to the Consultant all documents, studies, plans and specifications which are in IEUA's possession and will be useful in the study of the work described in the Scope of Work. However, the Consultant shall review IEUA's records, select the desired reference items and provide the required reproduction.

C. Termination of Contract

IEUA reserves the right to terminate any contract which may result from this proposal at any time with thirty (30) days written notice. In such cases, the Consultant shall be paid for work done through the termination date and all work done to that date shall become the property of IEUA.

7. CONTRACT DOCUMENT PREPARATION

A. Preliminary and Interim Documents

All preliminary and interim documents shall be submitted electronically in both Microsoft Word and PDF formats.

B. Final Documents

The Technical Memorandum and User Guide shall be processed using Microsoft Word and will be 8½"x11" in size and bound. The updated Land Use-based Demand Model and GIS shapefiles shall be submitted on a USB drive.

8. SUBMITTALS

The Consultant shall keep IEUA informed of the basic decisions as they are made and shall seek IEUA's input. The Consultant shall document all decisions in the evaluations as described under the Project Description. The contract documents shall be submitted to IEUA for a 14-day review period.

- A Technical Memorandum (TM) summarizing the process used to develop/update the recycled water and water demands, and wastewater flow projections which include the following, not limited to: assumptions, land use unit factor development/methodologies, model input summaries, demand projections by member agency in 5-year increments through 2050
- Updated Land Use-based Demand Model and GIS shapefiles
- A written User Guide for updating data and running the model.

9. PROJECT SCHEDULE

It is the goal of IEUA to complete the 2020 Land Use-Based Demand Model Update by the end of January 2021. The overall project schedule is included in Attachment A. Each proposing Consultant shall review the time allotted to complete the work. The Consultant shall develop sub-schedules to meet the desired completion date.

10. PAYMENT TO CONSULTANT

Payments to Consultant for services provided will be made by IEUA based on monthly invoices upon verification and approval by IEUA's Project Manager. The Consultant shall be responsible for the submission of invoices in accordance with IEUA's invoice format and include the following:

- Summary of work completed for the period
- Itemized labor rates and hours for each consultant's staff member
- Subconsultant charges
- Direct expenses

11. PROPOSAL FORMAT

The body of the proposal shall include the following items. Items referenced as an attachment shall be included in the appendices of the proposal. The proposal should include the following information as a minimum:

- A detailed proposed scope of work and technical approach based upon the information contained in the "Project Description" section of this Request for Proposal.
- Descriptions of the specific experience and capabilities relative to the scope of work of the designated Project Manager, Project Engineer, and support staff. Key personnel assigned to the project shall not be reassigned without prior written approval from IEUA.

- A description of the project team's past record of performance on similar projects, with references. This
 will include a discussion of such factors as control of costs, innovations, quality of work and ability to
 meet schedules.
- Information about projects, which the interested firm has completed within the past five years. This information shall include, for each project, a brief description of the project and recommendations from the project owner with contact information.
- A description of the proposed management approach for the project, including the method of keeping IEUA informed on the progress of the project.
- A description of any joint venture and/or proposed subcontract arrangements which would be utilized during the project.
- An organizational chart of Consultant's proposed team.
- Proposed time schedule for completion of each phase of the Work. A minimum of 14 working days shall
 be included for IEUA staff review period. The schedule as listed in the Project Schedule section is the
 maximum desirable. Commitment, by Consultant, to a shorter schedule will be considered to be a
 positive item in the selection process.
- Work Effort: The Consultant shall provide, in the body of the proposal, fully itemized schedule of
 estimated effort for each task for the entire project, expressed in work hours, for each employee
 classification required to complete each phase of the work.
- Fee Schedule: The Consultant shall provide, in a separate sealed envelope, a fully itemized proposed fee to perform all scope items listed above broken down by phase and task. The Fee Schedule should be based on a Work Breakdown Structure showing major project elements and associated level of efforts (i.e., labor hours) for each key project staff plus expenses.
- A list of current and past projects with IEUA: The Consultant shall list all contracts with IEUA in the last five (5) years. Include project name, contract value, IEUA Project Manager, and Consultant key staff involved.
- The Consultant should consider presenting to IEUA "Optional" tasks which go above and beyond those items listed in the proposal scope of work that improve and/or enhance the project. These Optional tasks should have a separate line item with their associated fees.
- If a sub-consultant is to be used, work hours for each sub-consultant shall be listed separately for each Work element. The fees to be paid to sub-consultants shall be shown separately for each phase and for each sub-consultant.
- After all other parameters have been evaluated, the fee envelope of the most qualified Consultant will be opened and the estimated fee will be negotiated.
- Exceptions to this Request for Proposals: Any changes from the provisions of this Request for Proposals and Sample of Standard Contract, which are desired by the Consultant, shall be specifically noted in the attached Exception Form (Attachment C).

- Documentation that personal or organization conflicts of interest prohibited by law do not exist. (The Consultant is subject to State and Federal conflict of interest)
- Firms shall complete and return with their proposal the Workers' Compensation Certificate form provided (Attachment D).
- The Consultant shall include 2-page résumés for the project key team members. The résumés shall provide specific information about the team member's experience with similar type projects.
- The Consultant shall complete and return with their proposal the Business Ownership Information form provided (Attachment G).

12. SELECTION OF CONSULTANT

A. Qualifications

The Consultant may be a single firm or a joint venture and must show evidence of technical capability and experience in the key areas identified in the Scope of Work. The experience presented should be for a period covering the last five (5) years. The Consultant shall also be familiar with the regulatory constraints, which will govern this project. The consulting firm cannot submit a proposal as both a prime and a sub-consultant or a joint venture.

B. Criteria for Selection

Selection among the proposals received shall be based upon (but not necessarily in the order given) the following:

- The firm's organization, history, reputation, location and capability to perform all aspects of the work.
- The firm's ability to provide innovative, creative, cost reducing alternatives to meet IEUA's needs.
- Qualifications and experience of the personnel and project team to be assigned to the project including appropriate professional registrations.
- Ability to commence work immediately after execution of the contract and complete the required work within the desired time and allotted budget including any project funding requirements.
- Thoroughness of the Consultant's scope of the proposed work and realistic plan for completion of the project.
- Proposed staffing work effort.
- Exceptions to the request for proposals taken by the Consultant.
- Past experience on IEUA projects.

C. Interviews

Interviews may be scheduled with some or all of the Consultants who submit a proposal. Each Consultant shall be ranked based on the interview and an evaluation of the before-mentioned criteria. Following the ranking of the proposals received by IEUA, the fee envelop for the top ranked Consultant will be opened. The top ranked Consultant and IEUA will then negotiate the terms of the Contract. IEUA's Board of Directors shall approve the final selection.

D. Notification of Unsuccessful Consultants

Unsuccessful potential Consultants shall be notified as soon as possible by IEUA following determination at whatever point in the selection process such determination is made.

E. Negotiation of Contract

After selection of a Consultant, IEUA and the Consultant shall negotiate the contract under which the work shall be performed. All items submitted in the Consultant's Proposal shall be subject to negotiation.

F. Conflict of Interest Information

Information on possible conflicts of interest shall be provided in the Proposal. Such information shall be taken into account in making a decision on the selection of the Consultant to perform the work.

G. Public Records Policy

Responses to this Request for Proposal (RFP) and the documents constituting any Contract entered into thereafter becomes the exclusive property of IEUA and shall be subject to the California Public Records Act (Government Code Section 6250 et seq.). IEUA's use and disclosure of its records are governed by this Act.

Those elements in each Proposal which Consultant considers to be trade secrets, as that term is defined in Civil Code Section 3426.1(d), or otherwise exempt by law from disclosure, should be prominently marked as "TRADE SECRET", "CONFIDENTIAL", or "PROPRIETARY", by Consultant. IEUA will use its best efforts to inform Consultant of any request for disclosures of any such document. IEUA, shall not in any way, be liable or responsible for the disclosure of any such records including, without limitation, those so marked if disclosure is deemed to be required by law or by an order of the Court.

In the event of litigation concerning disclosure of information the Consultant considers exempt from disclosure, IEUA will act as a stakeholder only, holding the information until otherwise ordered by a court or other legal process. If IEUA is required to defend an action arising out of a Public Records Act requests, for any of the contents of a Consultant's proposal marked "Trade Secret", "Confidential", or "Proprietary", Consultant shall defend and indemnify IEUA from all liability, damages, costs, and expenses, including attorneys' fees, in any action or proceeding arising under the Public Records Act.

To ensure confidentiality, Consultants are instructed to enclose all "Trade Secret", "Confidential", or "Proprietary", data in separate, labeled, sealed envelopes, which are then included with the Bid/Proposal documents. Because the Bid/Proposal documents are available for review by any person following the Bid/Proposal opening, and during the review period, and after an award of a contract resulting from an Invitation to Bid/Request for Proposal, IEUA shall not in any way be held responsible for disclosure of any "Trade Secret", "Confidential", or "Proprietary" documents that are <u>not</u> contained in labeled envelopes.

13. OTHER GOVERNMENTAL AGENCIES

The pricing, terms and conditions in the awarded contract are available for use by any other public agency (i.e. city, county, district, public agency, municipality or state agency) wishing to utilize the services of the selected consultant. The participating public agency will work directly with the consultant to establish its own contract, scope of work and payment terms, holding IEUA harmless from all liability.

14. AVAILABLE REFERENCE MATERIAL

The following is a list of available reference materials:

1. 2015 Land Use-Based Water Demand Model Technical Memorandum

15. ATTACHMENTS

See following pages.

ATTACHMENT A – PROJECT SCHEDULE

| DATE | DESCRIPTION |
|-------------------|------------------------------------|
| February 24, 2020 | Issue RFP |
| March 26, 2020 | Proposals due |
| April 13, 2020 | Notify selected consultant |
| May 20, 2020 | Award consulting services contract |
| January 31, 2021 | Complete scope of work |

ATTACHMENT B – CONSULTING SERVICES INVOICE

| Company | | | | Pay Estimate No.: | | Contract Date: | 8 | Invoice Date: | | |
|-----------|-------------|-----------------|--|----------------------------|------------|----------------------|---------------------------------|---------------------------------|------------------|-----------------------|
| Address: | • | | | Contract No.: | | IEUA Project | Uanager: | This Period: | From: | e e |
| | | | | | | 12011110,001 | | | To: | |
| Proj Nam | | | | | | | | Invoice No /C | onsult Ref | |
| ORIGINA | | RACT: | | | | | | | | |
| | SAP Line | | | Original Contract Value | Total Th | is Period | Total | to Date | Progress to | Remaining Contract |
| PO No. | Item | WBS Element No. | Item Description | COIN act value | To: | | To: | | Date | Value |
| | No. | | | Amount (\$) | % Complete | | % Complete | | % Complete | Amount (\$) |
| | | | | (,, | | (4) | | () | | |
| | | | | | | | · | | | |
| | | | | | | | | | | |
| | | | Charles Orderinal Conducate | | | | | | | |
| | | | Subtotal Original Contract: | | | | ı | d- | | |
| CONTRAC | TAUE | NDWENTS: | | | | | | | | |
| | SAP | | | Amended | Total Th | is Period | Total | to Date | Progress | Remaining |
| PO No. | Line | WBS Element No. | Amendment Description | Contract Value | From: | | From: | | to | Contract |
| 1:0:140. | Item | WES LICITOR NO. | Americanera bescription | | To: | | To: | | Date | Value |
| | No. | | | Amount (\$) | % Complete | Amount (\$) | % Complete | Amount (\$) | % Complete | Amount (\$) |
| | × | | | | | | - | | | |
| | - | | | 1- | | | | | | |
| | S | | Subtotal Contract Amendments: | | | | | | | |
| | | | Total Contract with Amendments: | | |] | 1 | | 1 | |
| | | | | | _ | | _ | | | |
| | | PAYUE | NT SU UU ARY FOR THIS PERIOD: | | P | RIOR PAY u en | T SU UU ARY: | | | ř |
| | | | | From: To: | | | | From: To: | | |
| | | | Amount Earned Original Contract | 10. | | lm. | unt Formed Or | iginal Contract | | |
| | | | Amount Earned Original Contract Amount Earned Amendments | | | | | iginai contract d Amendments | | |
| | | | Back Charges | | | · | mount Earno | Back Charges | | |
| | | | Amount Due This Period | že. | | I в | ior Payments | | | |
| | | | 2 | | S/ | | | | <u> </u> | k A |
| | | | TOTAL PAYMENT SUMMARY: | 5 | | _ | CONTRACT | SCHEDULE SI | JUUARY: | |
| | | | | Total Co | ntract | | act Start Date: | | | |
| | | | | | | account SASSA | tract Duration: | | | |
| | | | Total Original Contract | | | • | mpletion Date: me Extension: | | | |
| | | | Total Contract Amendments | | | | mpletion Date : | | | |
| | | | Total Payments to Date | | | | 10 | DUPLETION S | U UU ARY: | |
| | | | Back Charges | | | Contract | Time Expired: | | | |
| | | | Payment this period | | | Contract Vi | ork Complete: | | | |
| | | | Balance of Contract | 27 | | | | | | |
| | | | | | | | | | | |
| Consultar | t Anner | nual: | | | | | | | | |
| Title: | - calcles | autact/ | Signature: | | | Date: | | | | _ |
| | | | | | | | | | | |

 Inland Empire Utilities Agency Approvals:

 Project Engineer:
 Date:
 Exec Mgr / CFO:
 Date:

 Dept. Manager:
 Date:
 General Manager:
 Date:

Inland Empire Utilities Agency Approvals:

RFP-JV-20-003 13

Date:

ATTACHMENT C – EXCEPTION FORM

EXCEPTION FORM

Should your firm take exception to <u>ANY</u> of the terms and conditions or other contents provided in the Request for Proposal, submit the following form with your proposal. If no exception(s) are taken, enter "NONE" for the first item. Make additional copies of this form if necessary.

| Page Number: | Section Title: | |
|-------------------|------------------|--|
| Paragraph Number: | Exception Taken: | |
| | | |
| | | |
| | | |
| Page Number: | Section Title: | |
| Paragraph Number: | Exception Taken: | |
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| Page Number: | Section Title: | |
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| | Section Title: | |
| Paragraph Number: | Exception Taken: | |
| | | |
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| | | |

ATTACHMENT D - WORKERS' COMPENSATION INSURANCE CERTIFICATE

WORKERS' COMPENSATION CERTIFICATE

The Consultant shall execute this form to acknowledge and comply with the requirements of California Labor Code, Sections 1860 and 1861:

I am aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and on behalf of my Consultant, I will comply with such provisions before commencing the performance of the work of any contract entered into.

| Signature | Company Name |
|--------------|--------------------------|
| | |
| | |
| | |
| Printed Name | Business License Number |
| Timed Name | Business Electise Number |
| | |
| | |
| | |
| Title | Date |

ATTACHMENT E - CONSULTANT IDENTIFICATION

| 1. | Legal name of Consultant | : <u>.</u> | | |
|-----|---|----------------------|------------------------------------|---------|
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | Email Address: | | | |
| 7. | Type of Business: | | | |
| | ☐ Sole Proprietor | ☐ Partnership | ☐ Corporation | |
| | Other: | | | |
| | If corporation, indicate St | ate where incorporat | ed: | |
| 8. | Business License numbe business is located. | r issued by the City | where the Consultant's principal p | lace of |
| | Number: | Issuing City: _ | | |
| 9. | Federal Tax Identification | Number: | | |
| 10. | | | | |

ATTACHMENT F - NON-COLLUSION AFFIDAVIT

NON-COLLUSION AFFIDAVIT

| State of California |) | |
|---|--|---|
| County of |) ss.) | |
| | , being first duly s | sworn, deposes and says |
| proposal that the proposal partnership, company, associally collusive or sham; that the Bi or sham proposal, and has resider or anyone else to put has not in any manner, direct anyone to fix the proposal feelement of the proposal fee, body awarding the Contract of the proposal fee or any breakdow thereto, or paid, and will in | is not made in the inciation, organization, organization, organization, organization, organization, organization, organization as sham proposal, or otly or indirectly, sougher or the Bidder or an or of that of any other of anyone interested in further, that the Bidder or the connot pay, any fee to | ("Bidder") the party making the foregoing nterest of, or on behalf of, any undisclosed person or corporation; that the proposal is genuine and not or indirectly solicited any other Bidder to put in a false thy colluded, conspired, connived, or agreed with any that anyone shall refrain from bidding; that the Bidder to by agreement, communication, or conference with any other Bidder, or to fix any overhead, profit, or cost Bidder, or to secure any advantage against the public of the proposed Contract; that all statements contained the der has not, directly or indirectly, submitted his or he tents thereof, or divulged information or data relative any corporation, partnership, company association per or agent thereof to effectuate a collusive or shame |
| Signature | | Company Name |
| Printed Name | | Consultant License Number |
| Title | | Date |

ATTACHMENT G - BUSINESS OWNERSHIP INFORMATION

Business Ownership Information Are you a WMDVBE* certified business? Yes No *(Women, Minority, Disabled, Veteran Business Enterprise) Certification must be received from California Public Utilities Commission clearing House. Call Toll Free: 800-359-7998 or 415-928-6892 for additional information. Please check those that apply: Women-Owned Business Disabled-Owned Business Disabled-Owned Business Hispanic-Owned Business Caucasian-American-Owned Business Underrepresented Asian-Owned Business

All firms need to be registered with IEUA. Please logon to www.ieua.org and under the heading of Procurements, click on the registration tab. This will allow your firm to access solicitations for the commodities or services that apply. Additionally, other agencies have access to the vendor information in the Bid Net system which will increase your access for available solicitations.

ATTACHMENT H – SAMPLE OF STANDARD CONTRACT



CONTRACT NUMBER: 460000XXXX FOR

CONSTRUCTION TRAILER UTILITY CONNECTION PROJECT NO. EN19001/19006

| THIS | CONTRACT (th | ne "Contract"), is made | and entered into | this | day of | |
|---------|-------------------|---|----------------------|----------------|------------------|------------|
| | , by and between | en the Inland Empire U | tilities Agency, a l | Municipal W | ater District, o | rganized |
| | • | ounty of San Bernardi | • | | | |
| offices | s located in [lo | interchangeably referred cation] (hereinafter ref XXXXXXXXXXXXXXX, F | ferred to as "Cor | nsultant"), fo | - | - |
| NOW, | THEREFORE, | in consideration of the | mutual promises a | and obligation | ons set forth he | erein, the |
| parties | s agree as follow | vs: | | | | |
| 1. | PROJECT MAI | NAGER ASSIGNMENT | : All technical dir | ection relate | ed to this Conti | ract shall |
| | come from the | designated Project Ma | nager. Details of t | the Agency's | s assignment a | are listed |
| | below | | | | | |

Project Manager: [Name], P.E., Senior Engineer

Address: 6075 Kimball Avenue

Chino, California 91708

Telephone: (909) 993-Facsimile: (909) 993-1982

Email:

2. <u>CONSULTANT ASSIGNMENT</u>: Special inquiries related to this Contract and the effects of this Contract shall be referred to the following:

Consultant: Address:

Telephone:

Email:

- 3. <u>ORDER OF PRECEDENCE</u>: The documents referenced below represent the Contract Documents. Where any conflicts exist between the General Terms and Conditions, or addenda attached, then the governing order of precedence shall be as follows:
 - A. Amendments to Contract Number 460000XXXX
 - B. Contract Number 460000XXXX General Terms and Conditions.
 - C. Project Manager's Request for Proposal (**Exhibit A**)
 - D. Consultant's Proposal dated XXXXXXXX
- 4. <u>SCOPE OF WORK AND SERVICES</u>: Consultant's services and responsibilities shall be in accordance with <u>Project Manager's Request for Proposal</u>, as outlined in **Exhibit A** which is referenced herein, attached hereto, and made a part hereof (hereinafter "Work").
- 5. FAMILIARITY WITH SCOPE OF WORK: By execution of this Agreement, Consultant warrants that:
 - (1) It has thoroughly investigated and considered the scope of the Work under this Agreement to be performed, based on all available information; and
 - (2) It carefully considered how the Work should be performed; and
 - (3) It fully understands the difficulties and restrictions attending the performance of the Work under this Agreement; and
 - (4) It has the professional and technical competency to perform the Work and the production capacity to complete the Work in a timely manner with respect to the Scope of Work.
- 5. <u>TERM</u>: The term of this Contract shall extend from the date of the Notice to Proceed and terminate on [date] unless agreed to by both parties, reduced to writing, and amended to this Contract.
- 6. <u>COMPENSATION</u>: Agency shall pay Consultant's once-monthly, properly-executed invoice, approved by the Project Manager, within thirty (30) days following receipt of the invoice by IEUA. Invoices shall include the name of assigned personnel, fully-burdened hourly billing rate, dates worked, a brief description of work, as well as the Contract Number 460000XXXX for payment. Payment shall be withheld for any service which does not meet Agency requirements or have proven unacceptable until such service is revised, the invoice resubmitted and accepted by the Project Manager. Consultant's original invoice shall be submitted electronically to apgroup@ieua.org. Should Consultant engage in any public works activity covered under California prevailing wage laws (California Labor Code §1720 et seq.) in excess of \$1,000.00 in billing value, Consultant shall provide with all public works invoicing certified payroll verifying that Consultant has paid prevailing wage in accordance with the Department of Industrial Relations requirements as stipulated in SB-854 [http://www.dir.ca.gov/Public-Works/Certified-Payroll-Reporting.html].

In compensation for the Work represented by this Contract, Agency shall pay Consultant NOT-TO-EXCEED a maximum total of **\$XXXXX.00** for all services provided in accordance with **Exhibit A**, referenced herein, attached hereto, and made a part hereof.

Agency may, at any time, make changes to the Scope of Work, including additions, reductions, and changes to any or all of the Work, as directed in writing by the Agency. Such changes shall be made by an Amendment to the Contract. Any changes shall be made by a written Amendment to the Contract. Consultant's invoice must be submitted according to milestones achieved by Consultant and accepted by the Agency's Project Manager, and shall include a breakdown by items completed, all associated labor provided, labor hours supplied and associated hourly rates, dates worked, the current monthly amount due, and the cumulative amount invoiced to-date against this Contract, using the Agency's standard Excel-based invoicing template **Exhibit B**. Invoice shall not be submitted in advance and shall not be dated earlier than the actual date of submittal. A copy of subject Excel invoicing template shall be furnished by the Agency's Project Manager.

7. <u>CONTROL OF THE WORK</u>: The Consultant shall perform the Work in compliance with the Work Schedule. If performance of the Work falls behind schedule, the Consultant shall accelerate the performance of the Work to comply with the Work Schedule as directed by the Project Manager. If the nature of the Work is such that Consultant is unable to accelerate the Work, Consultant shall promptly notify the Project Manager of the delay, the causes of the delay, and submit a proposed revised Work Schedule.

8. <u>FITNESS FOR DUTY:</u>

- A. Fitness: Consultant on the Jobsite:
 - 1. shall report for work in a manner fit to do their job;
 - shall not be under the influence of or in possession of any alcoholic beverages or of any controlled substance (except a controlled substance as prescribed by a physician so long as the performance or safety of the Work is not affected thereby); and
 - shall not have been convicted of any serious criminal offense which, by its nature, may have a discernible adverse impact on the business or reputation of Agency.
 - 4. <u>Compliance:</u> Consultant shall advise all Consultant and subcontractor personnel and associated third parties of the requirements of this Contract ("Fitness for Duty Requirements") before they enter on the Jobsite and shall immediately remove from the Jobsite any employee determined to be in violation of these requirements. Consultant shall impose these requirements on its Subcontractors. Agency may cancel the Contract if Consultant violates these Fitness for Duty Requirements.

B. California Department of Industrial Relations: For all public works performed in excess of \$1,000.00, SB854 is applicable:

Effective January 1, 2015: The call for bids and contract documents must include the following information:

- 1. No contractor or subcontractor may be listed on a bid proposal for a public works project (submitted on or after March 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)].
- No contractor or subcontractor may be awarded a contract for public work on a public works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.
- 3. This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations. As such, a PWC-100 shall be generated under the direction of the IEUA Project Manager or their designee.

C. Confined Space Work:

- 1. Precautions and Programs:
 - a. The Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the work or the activities of subcontractors, suppliers, and others at the work site.
 - b. The Contractors and subcontractors shall comply with the provisions of the Safety and Health Regulations for Construction, promulgated by the Secretary of Labor under Section 107 of the "Contract Work Hours and Safety Standards Act," as set forth in Title 29 C.F.R. If the Agency is notified of an alleged violation of the Occupational Safety and Health Standards referred to in this Section and it is established that there is a violation, the Contractor shall be subject to liquidated damages as provided in the Contract.
 - c. The Contractor and all subcontractors shall comply with the provisions of the Occupational Safety and Health Standards, promulgated by the United States Secretary of Labor under the "Occupational Safety and Health Act of 1970," as set forth in Title 29, C.F.R. Where an individual State act on occupational safety and health standards has been approved by federal authority, then the provisions of said state act shall control.

- d. The Contractor shall take all necessary precautions for the safety of, and shall provide the necessary supervision, control, and direction to prevent damage, injury, or loss to:
 - 1) All employees on the work or work site and other persons and organizations who may be affected thereby;
 - 2) All the work and materials and equipment to be incorporated therein, whether in storage or on or off the work site; and
 - 3) All other property at the site.
- e. Contract work requiring confined space entry must follow Cal-OSHA Regulation 8 CCR, Sections 5157 5158. This regulation requires the following to be submitted to IEUA for approval prior to the start of the project:
 - Proof of training on confined space procedures, as defined in Cal-OSHA Regulation 8 CCR, Section 5157. This regulation also requires the following to be submitted to IEUA for approval prior to the entry of a confined space:
 - 2) A written plan that includes identification of confined spaces within the construction site, alternate procedures where appropriate, contractor provisions, specific procedures for permit-required and non-permit required spaces, and a rescue plan.
- f. The Contractor must also submit a copy of their Safety Program or IIPP prior to the start of the project for approval by the IEUA Safety Department.
- 9. <u>INSURANCE</u>: During the term of this Contract, the Consultant shall maintain at Consultant's sole expense, the following insurance.
 - A. <u>Minimum Scope of Insurance</u>: Coverage shall be at least as broad as:
 - 1. Commercial General Liability (CGL): Insurance Services Office (ISO) Form CG 00 01 covering CGL on an "occurrence" basis, including products and completed operations, property damage, bodily injury and personal & advertising injury with limits no less than \$1,000,000 per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location (ISO CG 25 03 or 25 04) or the general aggregate limit shall be twice the required claim limit.
 - 2. Automobile Liability: ISO Form Number CA 00 01 covering any auto (Code 1), or if Consultant has no owned autos, covering hired, (Code 8) and non-

- owned autos (Code 9), with limit no less than \$1,000,000 per accident for bodily injury and property damage.
- 3. Workers' Compensation and Employers Liability: Workers' compensation limits as required by the State of California, with Statutory Limits, and Employer's Liability Insurance with limit of no less than \$1,000,000 per accident for bodily injury or disease.
- 4. Professional Liability (Errors and Omissions): Insurance appropriates to the Consultant's profession, with limit no less than \$1,000,000 per occurrence or claim, \$2,000,000 aggregate.
- B. <u>Deductibles and Self-Insured Retention</u>: Any deductibles or self-insured retention must be declared to and approved by the Agency. At the option of the Agency, either: the insurer shall reduce or eliminate such deductibles or self-insured retention as respects the Agency, its officers, officials, employees and volunteers; or the Consultant shall procure a bond guaranteeing payment of losses and related investigations, claims administration and defense expenses.
- C. <u>Other Insurance Provisions</u>: The policies are to <u>contain</u>, or be <u>endorsed to contain</u>, the following provisions:
 - 1. General Liability and Automobile Liability Coverage
 - a. Additional Insured Status: The Agency, its officers, officials, employees, and volunteers are to be covered as additional insureds on the CGL policy with respect to liability arising out of work or operations performed by or on behalf of the Consultant including materials, parts or equipment furnished in connection with such work or operations. General liability coverage can be provided in the form of an endorsement to the Consultant's insurance (at least as broad as ISO Form CG 20 10 11 85 or both CG 20 10, CG 20 26, CG 20 33, or CG 20 38; and CG 20 37 forms if later revisions used).
 - b. Primary Coverage: The Consultant's insurance coverage shall be primary insurance coverage at least as broad as ISO CG 20 01 04 13 as respects the Agency, its officer, officials, employees and volunteers. Any insurance or self-insurance maintained by the Agency, its officers, officials, employees, volunteers, property owners or engineers under contract with the Agency shall be excess of the Consultant's insurance and shall not contribute with it.
 - c. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the Agency, its officers, officials, employees or volunteers.

- d. The Consultant's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
- e. The Consultant may satisfy the limit requirements in a single policy or multiple policies. Any such additional policies written as excess insurance shall not provide any less coverage than that provided by the first or primary policy.
- 2. Workers' Compensation and Employers Liability Coverage

The insurer hereby grants to Agency a waiver of any right to subrogation which any insurer of said Consultant may acquire against the Agency by virtue of the payment of any loss under such insurance. Consultant agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the Agency has received a waiver of subrogation endorsement from the insurer.

3. All Coverages

Each insurance policy required by this contract shall be <u>endorsed</u> to state that coverage shall not be suspended, voided, canceled by either party, reduced in coverage or in limits except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to the Agency.

- D. <u>Acceptability of Insurers</u>: All insurance is to be placed with insurers with a current A.M. Best's rating of no less than A-:VII, and who are admitted insurers in the State of California.
- E. <u>Verification of Coverage</u>: Consultant shall furnish the Agency with original certificates and amendatory endorsements or copies of the applicable policy language effecting coverage required by this clause. All certificates and endorsements are to be received and approved by the Agency before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the Consultant's obligation to provide them. The Agency reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.
- F. <u>Submittal of Certificates</u>: Consultant shall submit all required certificates and endorsements to the following:

Inland Empire Utilities Agency, a Municipal Water District Attn: Angela Witte P.O. Box 9020 Chino Hills, California 91709

10. <u>LEGAL RELATIONS AND RESPONSIBILITIES</u>

- A. <u>Professional Responsibility</u>: The Consultant shall be responsible, to the level of competency presently maintained by other practicing professionals performing the same or similar type of work.
- B. <u>Status of Consultant</u>: The Consultant is retained as an independent Consultant only, for the sole purpose of rendering the services described herein and is not an employee of the Agency.
- C. Observing Laws and Ordinances: The Consultant shall keep itself fully informed of all existing and future state and federal laws and all county and city ordinances and regulations which in any manner affect the conduct of any services or tasks performed under this Contract, and of all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the same. The Consultant shall at all times observe and comply with all such existing and future laws, ordinances, regulations, orders and decrees, and shall protect and indemnify, as required herein, the Agency, its officers, employees and agents against any claim or liability arising from or based on the violation of any such law, ordinance, regulation, order or decree, whether by the Consultant or its employees.
- D. <u>Subcontract Services</u>: Any subcontracts for the performance of any services under this Contract shall be subject to the written approval of the Project Manager. For this project subcontractor list law shall apply.
- E. <u>Grant-Funded Projects:</u> This project is / is not grant-funded. [For Federal/State grant/loan-funded projects, the Consultant shall be responsible to comply with all grant requirements related to the Project. These may include, but shall not be limited to: Davis-Bacon Act, Endangered Species Act, Executive Order 11246 (Affirmative Action Requirements), Equal Opportunity, Disadvantaged Business Enterprise (DBE) Requirements, Competitive Solicitation, Record Retention and Public Access to Records, and Labor Compliance and Compliance Review. Federal funds have additional requirements. Please reference the flow-down requirements attached hereto and made a part hereof as **Exhibit C.**]
- F. <u>Conflict of Interest</u>: No official of the Agency who is authorized in such capacity and on behalf of the Agency to negotiate, make, accept or approve, or to take part in negotiating, making, accepting or approving this Contract, or any subcontract relating to services or tasks to be performed pursuant to this Contract, shall become directly or indirectly personally interested in this Contract.
 - Consultant understands and acknowledges that executing this Agreement may inhibit the Consultant from engaging in future contracts, jobs, or agreements with the Agency that is, or can be considered, related to the Scope of Work due to a potential conflict of interest.
- G. <u>Equal Opportunity and Unlawful Discrimination</u>: During the performance of this Contract, the Consultant shall not unlawfully discriminate against any employee or

employment applicant because of race, color, religion, sex, age, marital status, ancestry, physical or mental disability, sexual orientation, veteran status or national origin. The Agency is committed to creating and maintaining an environment free from harassment and discrimination. To accomplish these goals the Agency has established procedures regarding the implementation and enforcement of the Agency's Harassment Prohibition and Equal Employment Opportunity commitments. Please refer to IEUA Policies A-29 (Equal Employment Opportunity) and A-30 Harassment Prohibition for detailed information or contact the Agency's Human Resources Administrator. A copy of either of these Policies can be obtained by contacting the Project Manager for your respective Contract. Please advise any of your staff that believes they might have been harassed or discriminated against while on Agency property, to report said possible incident to either the Project Manager, or the Agency's Human Resources Administrator. Please be assured that any possible infraction shall be thoroughly investigated by the Agency.

Н. Non-Conforming Work and Warranty: Consultant represents and warrants that the Work and Documentation shall be adequate to serve the purposes described in the Contract. For a period of not less than one (1) year after acceptance of the completed Work, Consultant shall, at no additional cost to Agency, correct any and all errors in and shortcomings of the Work or Documentation, regardless of whether any such errors or shortcoming is brought to the attention of Consultant by Agency, or any other person or entity. Consultant shall within three (3) calendar days, correct any error or shortcoming that renders the Work or Documentation dysfunctional or unusable and shall correct other errors within thirty (30) calendar days after Consultant's receipt of notice of the error. Upon request of Agency, Consultant shall correct any such error deemed important by Agency in its sole discretion to Agency's continued use of the Work or Documentation within seven (7) calendar days after Consultant's receipt of notice of the error. If the Project Manager rejects all or any part of the Work or Documentation as unacceptable and agreement to correct such Work or Documentation cannot be reached without modification to the Contract, Consultant shall notify the Project Manager, in writing, detailing the dispute and reason for the Consultant's position. Any dispute that cannot be resolved between the Project Manager and Consultant shall be resolved in accordance with the provisions of this Contract. The Consultant's liability with respect to any claims arising out of the Work and the Consultant shall bear no liability whatsoever for any consequential loss, injury or damage incurred by the Agency, including but not limited to, claims for loss of use, loss of profits and loss of markets.

I. Disputes:

1. All disputes arising out of or in relation to this Contract shall be determined in accordance with this section. The Consultant shall pursue the work to completion in accordance with the instruction of the Agency's Project Manager notwithstanding the existence of dispute. By entering into this Contract, both parties are obligated, and hereby agree, to submit all disputes arising under or relating to the Contract, which remain unresolved after the exhaustion of the procedures provided herein, to independent arbitration. Except as

- otherwise provided herein, arbitration shall be conducted under California Code of Civil Procedure Sections 1280, et. seq, or their successor.
- 2. Any and all disputes during the pendency of the work shall be subject to resolution by the Agency Project Manager and the Consultant shall comply, pursuant to the Agency Project Manager instructions. If the Consultant is not satisfied with any such resolution by the Agency Project Manager, they may file a written protest with the Agency Project Manager within seven (7) calendar days after receiving written notice of the Agency's decision. Failure by Consultant to file a written protest within seven (7) calendar days shall constitute waiver of protest, and acceptance of the Agency Project Manager's resolution. The Agency's Project Manager shall submit the Consultant's written protests to the General Manager, together with a copy of the Agency Project Manager's written decision, for his or her consideration within seven (7) calendar days after receipt of said protest(s). The General Manager shall make his or her determination with respect to each protest filed with the Agency Project Manager within ten (10) calendar days after receipt of said protest(s). If Consultant is not satisfied with any such resolution by the General Manager, they may file a written request for arbitration with the Project Manager within seven (7) calendar days after receiving written notice of the General Manager's decision.
- 3. In the event of arbitration, the parties hereto agree that there shall be a single neutral Arbitrator who shall be selected in the following manner:
 - a. The Demand for Arbitration shall include a list of five names of persons acceptable to the Consultant to be appointed as Arbitrator. The Agency shall determine if any of the names submitted by Consultant are acceptable and, if so, such person shall be designated as Arbitrator.
 - b. In the event that none of the names submitted by Consultant are acceptable to Agency, or if for any reason the Arbitrator selected in Step (a) is unable to serve, the Agency shall submit to Consultant a list of five names of persons acceptable to Agency for appointment as Arbitrator. The Consultant shall, in turn, have seven (7) calendar days in which to determine if one such person is acceptable.
 - c. If after Steps (a) and (b), the parties are unable to mutually agree upon a neutral Arbitrator, the matter of selection of an Arbitrator shall be submitted to the San Bernardino County Superior Court pursuant to Code of Civil Procedure Section 1281.6, or its successor. The costs of arbitration, including but not limited to reasonable attorneys' fees, shall be recoverable by the party prevailing in the arbitration. If this arbitration is appealed to a court pursuant to the procedure under California Code of Civil Procedure Section 1294, et. seq., or their successor, the costs of arbitration shall also include court costs associated

- with such appeals, including but not limited to reasonable attorneys' fees which shall be recoverable by the prevailing party.
- 4. Joinder in Mediation/Arbitration: The Agency may join the Consultant in mediation or arbitration commenced by a subcontractor on the Project pursuant to Public Contracts Code Sections 20104 et seq. Such joinder shall be initiated by written notice from the Agency's representative to the Consultant.
- 11. INDEMNIFICATION: Consultant shall indemnify the Agency, its directors, employees and assigns, and shall defend and hold them harmless from all liabilities, demands, actions, claims, losses and expenses, including reasonable attorneys' fees, which arise out of or are related to the negligence, recklessness or willful misconduct of the Consultant, its directors, employees, agents and assigns, in the performance of work under this Contract, to the extent caused by Consultant's negligence or willful misconduct. Notwithstanding the foregoing, to the extent that this Contract includes design professional services under Civil Code Section 2782.8, as may be amended from time to time, such duties of Consultant to defend and to indemnify Agency shall only be to the full extent permitted by Civil Code Section 2782.8.
- 12. OWNERSHIP OF MATERIALS AND DOCUMENTS/CONFIDENTIALITY: The Agency retains ownership of any and all partial or complete reports, drawings, plans, notes, computations, lists, and/or other materials, documents, information, or data prepared by the Consultant and/or the Consultant's subcontractor(s) pertaining to this Contract. Any modifications or reuse of such materials for purposes other than those intended by the Contract shall be at the Agency's sole risk and without liability to Consultant. Said materials and documents are confidential and shall be available to the Agency from the moment of their preparation, and the Consultant shall deliver same to the Agency whenever requested to do so by the Project Manager and/or Agency. The Consultant agrees that same shall not be made available to any individual or organization, private or public, without the prior written consent of the Agency.

13. TITLE AND RISK OF LOSS:

- A. <u>Documentation:</u> Title to the Documentation shall pass to Agency when prepared; however, a copy may be retained by Consultant for its records and internal use. Consultant shall retain such Documentation in a controlled access file, and shall not reveal, display or disclose the contents of the Documentation to others without the prior written authorization of Agency or for the performance of Work related to the Project.
- B. <u>Material:</u> Title to all Material, field or research equipment, and laboratory models, procured or fabricated under the Contract shall pass to Agency when procured or fabricated, and such title shall be free and clear of any and all encumbrances. Consultant shall have risk of loss of any Material or Agency-owned equipment of which it has custody.

C. <u>Disposition:</u> Consultant shall dispose of items to which Agency has title as directed in writing by the Agreement Administrator and/or Agency.

14. PROPRIETARY RIGHTS:

- A. <u>Rights and Ownership:</u> Agency's rights to inventions, discoveries, trade secrets, patents, copyrights, and other intellectual property, including the Information and Documentation, and revisions thereto (hereinafter collectively referred to as "Proprietary Rights"), used or developed by Consultant in the performance of the Work, shall be governed by the following provisions:
 - 1. Proprietary Rights conceived, developed, or reduced to practice by Consultant in the performance of the Work shall be the property of Agency, and Consultant shall cooperate with all appropriate requests to assign and transfer same to Agency.
 - If Proprietary Rights conceived, developed, or reduced to practice by Consultant prior to the performance of the Work are used in and become integral with the Work or Documentation, or are necessary for Agency to have complete enjoyment of the Work or Documentation, Consultant shall grant to Agency a non-exclusive, irrevocable, royalty-free license, as may be required by Agency for the complete enjoyment of the Work and Documentation, including the right to reproduce, correct, repair, replace, maintain, translate, publish, use, modify, copy or dispose of any or all of the Work and Documentation and grant sublicenses to others with respect to the Work and Documentation.
 - 3. If the Work or Documentation includes the Proprietary Rights of others, Consultant shall procure, at no additional cost to Agency, all necessary licenses regarding such Proprietary Rights so as to allow Agency the complete enjoyment of the Work and Documentation, including the right to reproduce, correct, repair, replace, maintain, translate, publish, use, modify, copy or dispose of any or all of the Work and Documentation and grant sublicenses to others with respect to the Work and Documentation. All such licenses shall be in writing and shall be irrevocable and royalty-free to Agency.
- B. <u>No Additional Compensation:</u> Nothing Set forth in this Contract shall be deemed to require payment by Agency to Consultant of any compensation specifically for the assignments and assurances required hereby, other than the payment of expenses as may be actually incurred by Consultant in complying with this Contract.
- 15. <u>INFRINGEMENT:</u> Consultant represents and warrants that the Work and Documentation shall be free of any claim of trade secret, trade mark, trade name, copyright, or patent infringement or other violations of any Proprietary Rights of any person. Consultant shall defend, indemnify and hold harmless, Agency, its officers, directors, agents, employees, successors, assigns, servants, and volunteers free and harmless from any and all liability, damages, losses, claims, demands, actions, causes of action, and costs

including reasonable attorney's fees and expenses arising out of any claim that use of the Work or Documentation infringes upon any trade secret, trade mark, trade name, copyright, patent, or other Proprietary Rights.

Consultant shall, at its expense and at Agency's option, refund any amount paid by Agency under the Contract, or exert its best efforts to procure for Agency the right to use the Work and Documentation, to replace or modify the Work and Documentation as approved by Agency so as to obviate any such claim of infringement, or to put up a satisfactory bond to permit Agency's continued use of the Work and Documentation.

16. <u>NOTICES</u>: Any notice may be served upon either party by delivering it in person, or by depositing it in a United States Mail deposit box with the postage thereon fully prepaid, and addressed to the party at the address set forth below:

Agency: Warren T. Green

Manager of Contracts

Inland Empire Utilities Agency, a Municipal Water District

P.O. Box 9020

Chino Hills, California 91709

Consultant:

Any notice given hereunder shall be deemed effective in the case of personal delivery, upon receipt thereof, or, in the case of mailing, at the moment of deposit in the course of transmission with the United States Postal Service.

- 17. <u>SUCCESSORS AND ASSIGNS</u>: All of the terms, conditions and provisions of this Contract shall inure to the benefit of and be binding upon the Agency, the Consultant, and their respective successors and assigns. Notwithstanding the foregoing, no assignment of the duties or benefits of the Consultant under this Contract may be assigned, transferred or otherwise disposed of without the prior written consent of the Agency; and any such purported or attempted assignment, transfer or disposal without the prior written consent of the Agency shall be null, void and of no legal effect whatsoever.
- 18. PUBLIC RECORDS POLICY: Information made available to the Agency may be subject to the California Public Records Act (Government Code Section 6250 et seq.) The Agency's use and disclosure of its records are governed by this Act. The Agency shall use its best efforts to notify Consultant of any requests for disclosure of any documents pertaining to this work.

In the event of litigation concerning disclosure of information Consultant considers exempt from disclosure, (e.g., "Confidential," "Proprietary" or "Trade Secret,") Agency shall act as a stakeholder only, holding the information until otherwise ordered by a court or other legal process. If Agency is required to defend an action arising out of a Public Records Act request for any of the information Consultant has marked "Confidential," "Proprietary" or "Trade Secret," Consultant shall defend and indemnify Agency from all liability, damages, costs, and expenses, including attorneys' fees, in any action or proceeding arising under the Public Records Act.

- 19. <u>CERTIFICATION UNDER LABOR CODE SECTION 1861 BY CONSULTANT</u>: I, the undersigned Consultant, am aware of the provisions of Section 3700 et seq. of the Labor Code which requires every employer to be insured against liability for Worker's Compensation or to undertake self-insurance in accordance with the provisions of the Code, and I, the undersigned Consultant, agree to and will comply with such provisions before commencing the performance of the work of this Agreement.
- 20. <u>RIGHT TO AUDIT</u>: The Agency reserves the right to review and/or audit all Consultant's records related to the Work. The option to review and/or audit may be exercised during the term of the Contract, upon termination, upon completion of the Contract, or at any time thereafter up to twelve (12) months after termination of the Contract. The Consultant shall make all records and related documentation available within three (3) working days after said records are requested by the Agency.
- 21. <u>LIQUIDATED DAMAGES</u>: Liquidated Damages, in the amount of \$500 per day, may be assessed by the Agency for each calendar day that the Contractor fails to complete the services in accordance with the Work Schedule. Any and all Liquidated Damages assessed by the Agency will be taken as a direct credit against the Contractor's invoice for the missed services. The Contractor's acceptance of this contract, shall serve to indicate acceptance of this Liquidated Damages clause, and the daily assessment of damages expressed in this section
- 22. <u>INTEGRATION</u>: The Contract Documents represent the entire Contract of the Agency and the Consultant as to those matters contained herein. No prior oral or written understanding shall be of any force or effect with respect to those matters covered by the Contract Documents. This Contract may not be modified, altered or amended except by written mutual agreement by the Agency and the Consultant.
- 22. <u>GOVERNING LAW</u>: This Contract is to be governed by and constructed in accordance with the laws of the State of California, County of San Bernardino.
- 23. <u>TERMINATION FOR CONVENIENCE</u>: The Agency reserves and has the right to immediately suspend, cancel or terminate this Contract at any time upon written notice to the Consultant. In the event of such termination, the Agency shall pay Consultant for all authorized and Consultant-invoiced services up to the date of such termination.
- 24. <u>FORCE MAJEURE</u>: Neither party shall hold the other responsible for the effects of acts occurring beyond their control; e.g., war, riots, strikes, natural disasters, etcetera.
- 25. <u>NOTICE TO PROCEED</u>: No services shall be performed or furnished under this Contract unless and until this document has been properly signed by all responsible parties and a Notice to Proceed order has been issued to the Consultant.
- 26. <u>AGENCY-PROVIDED INFORMATION AND SERVICES</u>: The Agency shall furnish Consultant available studies, reports and other data pertinent to Consultant's services; obtain or authorize Consultant to obtain or provide additional reports and data as required;

- furnish to Consultant services of others required for the performance of Consultant's services hereunder, all subject to Agency's prior approval, and Consultant shall be entitled to use and rely upon all such information and services provided by the Agency or others in performing Consultant's services under this Agreement.
- 27. THIRD PARTIES: The services to be performed by Consultant are intended solely for the benefit of the Agency. No person or entity not a signatory to this Agreement shall be entitled to rely on Consultant's performance of its services hereunder, and no right to assert a claim against Consultant by assignment of indemnify rights or otherwise shall accrue to a third party as a result of this Agreement of the performance of Consultant's services hereunder.

IN WITNESS WHEREOF, the parties hereto have caused the Contract to be entered as of the day and year written above.

| INLAND EMPIRE U (A Municipal Water | JTILITIES AGENCY: District) | [Company]: | |
|---------------------------------------|--------------------------------|---------------------------------|--------|
| [Signatory] [Title] | (Date) | [Signatory] [Title] | (Date) |
| | [Balance Of This F | Page Intentionally Left Blank] | |

Table 1
Work Breakdown Structure and Line-Item Fee Estimate
2020 Land Use Based Water Demand Model Update

| | | | | | L | abor (p | erson l | nours) | | | C | Other Direct Charges | | | | |
|--|-------|--------------|--------------|----------|-------------|---------------|---------|--------|-------------|----------|---------|----------------------|---------|---|-------------|----------|
| | | | WEI | Staff | | ou | | | Total Labor | | | | Total (| DDCs | Total Proje | ct Costs |
| Description | | = | , | _ | itor | ohns | Mult | | Total Easo. | | Twestel | Repro- | Total | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | |
| | ø | Principal II | Senior II | Staff II | Tech Editor | Karen Johnson | к Кер | Person | Co | st | Travel | duction | Subtask | Task | Subtask | Task |
| | Notes | Pri | Ø | ", | Тес | Каі | Task | Hours | Subtask | Task | | | | | | |
| k 1 - Define objectives and fine-tune scope of work | | | | | | | | | | \$10,294 | | | | \$220 | | \$10,514 |
| 1 Prepare for and attend kick-off meeting | | 4 | 8 | | | 4 | 1 | 16 | \$3,376 | | \$110 | | \$110 | | \$3,486 | |
| 2 Develop list of data needs based on kick-off meeting | | | 6 | | | 2 | 1 | 8 | \$1,568 | | | | | | \$1,568 | |
| 3 Review list with IEUA and Watermaster and update per discussion | | | 4 | | | | 1 | 4 | \$812 | | | | | | \$812 | |
| 4 Draft document summarizing schedule, data needs, collection process, methodology | | 4 | 4 | | | 2 | 1 | 10 | \$2,214 | | | | | | \$2,214 | |
| 5 Prepare for and attend Workshop #1 with IEUA staff and its agencies | а | | 8 | | | 4 | 1 | 12 | \$2,324 | | \$110 | | \$110 | | \$2,434 | |
| k 2 - Collect and compile data | | | | | | | | | | \$18,826 | | | | \$0 | | \$18,826 |
| Collect and compile GIS shapefiles developed in 2015 of existing and future land use, boundary files, and available aerial photography from IEUA | | N | 1 | 3 | | | 1 | 4 | \$695 | | | | | | \$695 | |
| Collect and compile available GIS shapefiles of existing (2019/2020), general plan land uses, boundary files, and aerial photography | | | | | | | | | | | | | | | | |
| 2.2.1 Cities (7) and county (1) within IEUA's sphere of influence (SOI) | | | 2 | 6 | | 2 | 1 | 10 | \$1,740 | | | | | | \$1,740 | |
| 2.2.2 Additional Watermaster agencies (JCSD and Pomona) cities (3) and counties (1) | | | 8 | 16 | | 4 | 1 | 28 | \$4,948 | | | | | | \$4,948 | |
| Collect and compile water billing data for previous 5 years, and any water demand unit factors from water agencies and cities | | | | | | | | | | | | | | | | |
| 2.3.1 IEUA agencies (8) | | | | | | 24 | 1 | 24 | \$4,200 | | | | | | \$4,200 | |
| 2.3.2 Additional Watermaster agencies (JCSD and Pomona) | | | | | | 6 | 1 | 6 | \$1,050 | | | | | | \$1,050 | |
| Collect and compile sewer flow data, sewer master plans, and any flow factors from sewer collection agencies (7) | | | 4 | 4 | | 27 | 1 | 35 | \$6,193 | | | | | | \$6,193 | |
| k 3 - Update land use data into categories | | | | | | | | | | \$81,168 | | | | \$2,335 | | \$83,503 |
| 1 Develop list of land use categories based on IEUA and Watermaster's needs | | 2 | 4 | | | 2 | 1 | 8 | \$1,688 | | | | | | \$1,688 | |
| 2 Review list with IEUA and Watermaster and update per discussion | | | 2 | | | 2 | 1 | 4 | \$756 | | | | | | \$756 | |
| 3 Develop the existing (2020) land use shapefiles modifying existing land use datasets | | | | | | | | | | | | | | | | |
| for IEUA agencies, update 2015 shapefiles based on comparison of 2014 data and 2019 aerials; land uses may need to be modified for new categories | | 4 | 12 | 36 | | 16 | 1 | 68 | \$12,192 | | | | | | \$12,192 | |
| for additional Watermaster agencies (JCSD and Pomona) using Watermaster's land use database, any other data provided by the agencies, or generate from aerials | | 4 | 16 | 24 | | 8 | 1 | 52 | \$9,636 | | | | | | \$9,636 | |
| 4 Prepare draft maps of existing land uses for each land use agency | | | | | | | | | | | | | | | | |
| 3.4.1 IEUA agencies (7 cities) | | | 8 | 16 | | | 1 | 24 | \$4,248 | | | \$140 | \$140 | | \$4,388 | |
| 3.4.2 Additional Watermaster agencies (cities of Eastvale, Jurupa Valley and Pomona) | | | 4 | 8 | | | 1 | 12 | \$2,124 | | | \$60 | \$60 | | \$2,184 | |
| Develop draft future land use shapefiles based on vacant lands and changed land uses | | 4 | 30 | 70 | | 16 | 1 | 120 | \$21,422 | | | | | | \$21,422 | |



Table 1
Work Breakdown Structure and Line-Item Fee Estimate
2020 Land Use Based Water Demand Model Update

| Description | | | | L | abor (p | person | hours) | | Other Dire | | | | |
|--|--------------------|-------------|---------------|--------|-----------------|--------|--------|------------|--------------|---------|------------|-------------|----------|
| | | WEI | Staff | | son | o Mult | | Total Labo | or | | Total ODCs | Total Proje | ct Costs |
| | | 른 | | ditor | Johns | | | | Travel | Repro- | | | |
| y g | Senior II Staff II | Tech Editor | Karen Johnson | sk Rep | Person Hours | | ost | duction | Subtask Task | Subtask | Task | | |
| | L | | | Ĕ | × | Task | | Subtask | Task | | | | |
| 3.6 Prepare draft maps of future land uses for each land use agency | | | | | | | | 4 | | 4 | 40.0 | | |
| 3.6.1 IEUA agencies (7 cities) | | 8 | 24 | | | 1 | 32 | \$5,560 | | \$840 | \$840 | \$6,400 | |
| 3.6.2 Additional Watermaster agencies (cities of Eastvale, Jurupa Valley and Pomona) | | 4 | 12 | | | 1 | 16 | \$2,780 | | \$360 | \$360 | \$3,140 | |
| Review the existing and future land use maps with each land use agency for review and determine development year | | | | | | | | | | | | | |
| 3.7.1 IEUA agencies (7 cities plus San Antonio Water Company or County) | | 40 | | | 15 | 1 | 55 | \$10,745 | \$605 | | \$605 | \$11,350 | |
| 3.7.2 Additional Watermaster agencies (cities of Eastvale, Jurupa Valley and Pomona) | | 15 | | | 10 | 1 | 25 | \$4,795 | \$330 | | \$330 | \$5,125 | |
| 3.8 Update existing and future land use shapefiles per comets received | 4 | 6 | 18 | | | 1 | 28 | \$5,222 | | | | \$5,222 | |
| Task 4 - Update water demands and wastewater unit factors | | | | | | | | | \$44,346 | | \$2,200 | | \$46,546 |
| Analyze water consumption data to disaggregate into land use categories and identify unique water users for each agency | 4 | 8 | | | 40 | 1 | 52 | \$9,676 | | | | \$9,676 | |
| 4.2 Develop assumptions for wastewater unit factors for appropriate land use types | 4 | 4 | 8 | | 24 | 1 | 40 | \$7,376 | | | | \$7,376 | |
| 4.3 Review data and resulting unit factors with IEUA and its agencies | | | | | | | | | | | | | |
| 4.3.1 Water demand factors with IEUA agencies (8) | | 32 | | | 32 | 1 | 64 | \$12,096 | \$880 | | \$880 | \$12,976 | |
| 4.3.2 Water demand factors with additional Watermaster agencies (JCSD and Pomona) | | 8 | | | 8 | 1 | 16 | \$3,024 | \$440 | | \$440 | \$3,464 | |
| 4.3.3 Wastewater factors with sewer agencies (Regional Contracting Agencies are 6 IEUA cities CVWD) | | 12 | | | 24 | 1 | 36 | \$6,636 | \$880 | | \$880 | \$7,516 | |
| 4.4 Review data and water demand and wastewater unit factors with IEUA and Watermaster | | 2 | | | 8 | 1 | 10 | \$1,806 | | | | \$1,806 | |
| 4.5 Update information based on input and additional data from each agency | 2 | 2 | | | 16 | 1 | 20 | \$3,732 | | | | \$3,732 | |
| Task 5 - Develop adjustment factors | | | | | | | | | \$9,088 | | \$0 | | \$9,088 |
| Review documentation, where available, on the impacts of socio-economic conditions, climate change, densification of existing lands, conservation, etc. on water demands | | 6 | | | 16 | 1 | 22 | \$4,018 | | | | \$4,018 | |
| 5.2 Update adjustment factors, as needed, for existing and future conditions based on socio-economic conditions, climate change, densification of existing lands, conservation, and unbilled consumption | 4 | 6 | | | 16 | 1 | 26 | \$5,070 | | | | \$5,070 | |
| Task 6 - Prepare water demand and wastewater generation forecast model | | | | | | | | | \$14,086 | | \$0 | | \$14,086 |
| 6.1 Prepare spreadsheet model that estimates water demands and wastewater projections for each agency based on land use and unit factors in 5-year increments from 2020-2050 | 2 | 8 | | | 6 | 1 | 16 | \$3,200 | | | | \$3,200 | |
| 6.2 Draft tables and graphics summarizing model results | 2 | 6 | 10 | | 4 | 1 | 22 | \$4,084 | | | | \$4,084 | |
| 6.3 Prepare for and attend Workshop #2 with IEUA staff and its agencies on model results | | 6 | | | 6 | 1 | 12 | \$2,268 | | | | \$2,268 | |
| 6.4 Update model based on comments received at workshop | 2 | 8 | 6 | | 8 | 1 | 24 | \$4,534 | | | | \$4,534 | |
| Task 7 - Prepare Technical Memorandum and Final Deliverables | | | | | | | | | \$30,330 | | \$700 | | \$31,030 |
| 7.1 Draft technical memorandum | 8 | 32 | 12 | 8 | 36 | 1 | 96 | \$17,908 | | | | \$17,908 | |



Table 1
Work Breakdown Structure and Line-Item Fee Estimate
2020 Land Use Based Water Demand Model Update

| Description | | Labor (person hours) | | | | | | | | | | Other Direct Charges | | | | | |
|---|---|----------------------|-----------|----------|-------------|---------|------|-----------------|-------------|-----------|---------|----------------------|------------|------------|------------|-----------|--|
| | | | WEI | Staff | | t son | | | Total Labor | | | | Total (| DDCs | Total Proj | ect Costs | |
| | | = | = | | itor | Johnson | Mult | | - Otal East | | | Repro- | . Ottail C | Total ODOS | | | |
| | | Principal II | Senior II | Staff II | Tech Editor | en Je | Rep | Person Hours | Cost | | Iravai | duction | Subtask | Task | Subtask | Task | |
| | | Pri | Š | S | | Kar | Task | | Subtask | Task | | | Sublask | Iask | Subtask | Task | |
| 7.2 Review technical memorandum with IEUA and Watermaster staff | | | 6 | | | 4 | 1 | 10 | \$1,918 | | | | | | \$1,918 | | |
| 7.3 Finalize technical memorandum | d | 4 | 8 | 6 | 4 | 8 | 1 | 30 | \$5,580 | | | \$600 | \$600 | | \$6,180 | | |
| 7.4 Prepare deliverable of final data/document including the shapefiles of existing and future land uses with metadata and the model with instructions on how to use and update | | | 12 | 12 | 4 | | 1 | 28 | \$4,924 | | | \$100 | \$100 | | \$5,024 | | |
| Task 8 - Project management, monthly meetings and as-needed conference calls | | | | | | | | | | \$18,024 | | | | \$660 | | \$18,684 | |
| 8.1 Prepare for and participate in monthly meetings with IEUA and Watermaster staff | е | | 24 | | | 12 | 1 | 36 | \$6,972 | | \$660 | | \$660 | | \$7,632 | | |
| 8.2 Prepare for and participate in up to four conference calls with IEUA and Watermaster staff | | | 2 | | | 2 | 4 | 16 | \$3,024 | | | | | | \$3,024 | | |
| 8.3 Project management | е | 2 | 4 | | | | 6 | 36 | \$8,028 | | | | | | \$8,028 | | |
| Total Project excluding Watermaster Agencies | | 64 | 355 | 231 | 16 | 380 | | 1046 | | \$195,361 | \$3,245 | \$1,680 | | \$4,925 | | \$200,286 | |
| Total Project including Watermaster Agencies | | 70 | 416 | 291 | 16 | 420 | | 1213 | | \$226,162 | \$4,015 | \$2,100 | | \$6,115 | | \$232,277 | |

- a -- Workshop #1 will consist of an overview of the data needs, collection process, model update and schedule
- b -- The water demands projections and adjustment factors will be reviewed in Workship #2 (Task 6.5)
- c -- Workshop #2 will consist of an overview of the demand forecasting model for each agency and IEUA
- d Assumes 5 hard copies of the technical memorandum will be prepared
- e Assumes a project duration of six months



CONSENT CALENDAR ITEM

2E



Date: July 15, 2020

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

Committee: Engineering, Operations & Water Resources 07/08/20

Executive Contact: Christiana Daisy, Executive Manager of Engineering/AGM

Subject: RP-5 Solids Handling Facility Evaluation Consultant Contract Award

Executive Summary:

In early 2001, Inland Empire Utilities Agency (IEUA) developed an Organics Management Strategy Business Plan followed by the construction of the Regional Water Recycling Plant No. 5 (RP-5) Solids Handling Facility (SHF) and the Renewable Energy Efficiency Project (REEP) cogeneration facility. The SHF produced biogas from cow manure and food waste for power generation at the REEP from 2006 to 2007; however, over this time frame, these facilities were operated inconsistently due to a lack of gas production and excessive maintenance at the SHF. In early 2010, IEUA leased the SHF and REEP to a third party, Inland BioEnergy (lead by Burrtec, Inc.), which operated the system as a food waste digestion facility while surplus power was sold to IEUA as part of the lease agreement. At the end of March 2019, the lease agreement with Burrtec came to an end. As a result, IEUA would like to evaluate viable alternatives and plans for future use of the RP-5 SHF. On March 26, 2020, IEUA advertised a request for proposals for a consultant to evaluate the future uses of the RP-5 SHF. On April 23, 2020, IEUA received three proposals. A selection committee determined that GHD was the most qualified and provided the best value for this project with a proposal price of \$148,864.50. GHD has the technical experience to make this project a success and has worked well with IEUA on past projects. GHD's fee proposal is within the project budget and was determined to be comprehensive and reasonable.

Staff's Recommendation:

- 1. Award a consultant contract for the RP-5 SHF Future Uses Evaluation, Project No. EN20034.03, to GHD Inc., for a not-to-exceed amount of \$148,864.50; and
- 2. Authorize the General Manager to execute the contract, subject to non-substantive changes.

 $\textbf{Budget Impact} \ \ \textit{Budgeted (Y/N):} \ \ \textit{Y} \quad \textit{Amendment (Y/N):} \ \ \textit{N} \quad \textit{Amount for Requested Approval:}$

Account/Project Name:

EN20034.03/RP-5 SHF Future Uses Evaluation

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 a Statutory Exemption as defined in Section 15262 of the State CEQA Guidelines. When the project will be implemented will be subject to future environmental evaluation.

Business Goal:

The RP-5 SHF Future Uses Evaluation Project is consistent with IEUA's Business Goal of Wastewater Management, specifically the Asset Management and Water Quality objectives that IEUA will ensure that systems are well maintained, upgraded to meet evolving requirements, sustainably managed, and can accommodate changes in regional water use to protect public health, the environment, and meet anticipated regulatory requirements.

Attachments:

Attachment 1 - PowerPoint

Attachment 2 - Consultant Contract (Click for Attachment)

Board-Rec No.: 20162

Attachment 1

RP-5 SHF Future Uses Evaluation Consultant Contract Award Project No. EN20034.03

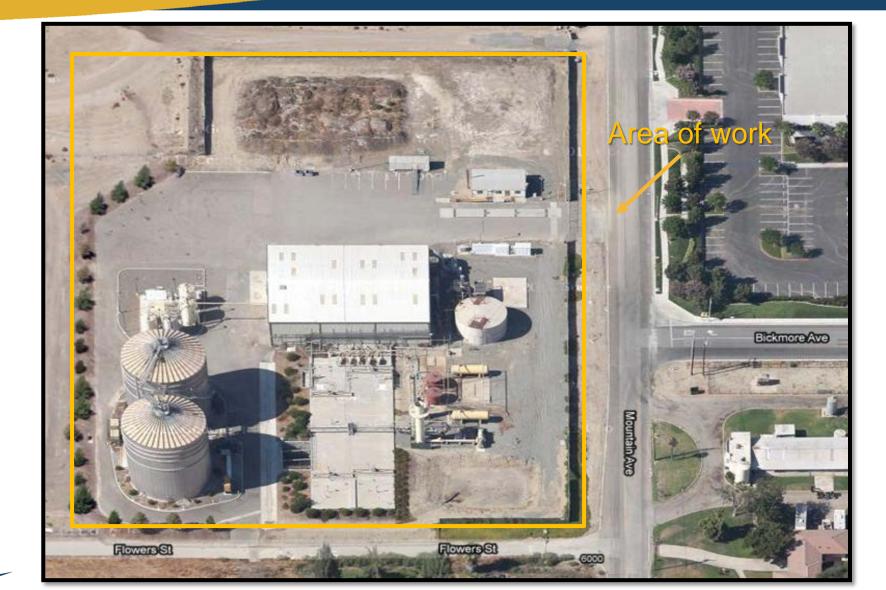








Regional Water Recycling Plant No. 5 Project Location





Project Background

- Constructed and operated from 2002 to 2007
- Inconsistently produced sufficient biogas to generate power
- SHF and REEP operation was suspended in 2008
- In 2010, IEUA leased the facility to Inland BioEngergy
- Surplus power was sold to IEUA
- Inland BioEnergy Lease Agreement ended 2019



Existing Solids Handling Building



Project Scope

- RP-5 SHF is currently inactive
- REEP will be utilized after RP-5 Expansion Project
- Evaluate alternatives for RP-5 SHF future use
- Consultant /scope evaluation includes:
 - Meeting, Site Visits, Condition Assessment
 - Business Case Evaluation
 - Commercial Real Estate Evaluation
 - Final Evaluation Report



Existing Steel Digesters



Consultant Selection

- Evaluation and Selection Committee
 - Engineering, Construction Management, Operations, Maintenance, and Planning
- On April 23, 2020, IEUA received three proposals

| Proposals Received | | | | | | |
|--------------------|--|--|--|--|--|--|
| GHD, Inc. | | | | | | |
| Carollo | | | | | | |
| Biogas | | | | | | |

- Justification for selecting GHD
 - Experience, qualifications, and staff-hour allocation



Project Budget and Schedule

| Description | Estimated Cost |
|--|----------------|
| Design Services - Evaluation | \$198,865 |
| Design Consultant Contract (this action) | \$148,865 |
| IEUA Services | \$50,000 |
| Construction | N/A |
| Contingency (~15%) | \$30,000 |
| Total Project Cost: | \$228,865 |
| Total Project Budget (parent): | \$500,000* |
| Remaining Budget (parent): | \$291,329* |

^{*} This is a re-occurring yearly project that is set-up for small projects that are requested during the Fiscal Year. There were six projects requested utilizing this budget for FY 2019/20.

| Project Milestone | Date |
|------------------------------|---------------|
| Evaluation | |
| Consultant Contract Award | July 2020 |
| Evaluation Completion | December 2020 |



Recommendation

 Award a consultant contract for the RP-5 SHF Future Uses Evaluation, Project No. EN20034.03, to GHD Inc., for a not-toexceed amount of \$148,864.50; and

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

The RP-5 SHF Future Uses Evaluation Project is consistent with *IEUA's Business Goal of Wastewater Management*, specifically the Asset Management and Water Quality objectives that IEUA will ensure that systems are well maintained, upgraded to meet evolving requirements, sustainably managed, and can accommodate changes in regional water use to protect public health, the environment, and meet anticipated regulatory requirements.





CONTRACT NUMBER: 4600002924

FOR

ENGINEERING CONSULTING SERVICES FOR RP-5 SOLIDS HANDLING FACILITY FUTURE USES EVALUATION

THIS CONTRACT (the "Contract"), is made and entered into this _____ day of ______, by and between the Inland Empire Utilities Agency, a Municipal Water District, organized and existing in the County of San Bernardino under and by virtue of the laws of the State of California (hereinafter interchangeably referred to as "IEUA" and "Agency") and GHD Inc. with offices located in Irvine, California (hereinafter referred to as "Consultant"), for Engineering Consulting services in support of Regional Plant No. 5 (RP-5) Solids Handling Facility Future Uses Evaluation, Project No. EN20034.03.

NOW, THEREFORE, in consideration of the mutual promises and obligations set forth herein, the parties agree as follows:

 PROJECT MANAGER ASSIGNMENT: All technical direction related to this Contract shall come from the designated Project Manager. Details of the Agency's assignment are listed below.

Project Manager: Jamal Zughbi, P.E., Senior Engineer

Address: 6075 Kimball Avenue

Chino, California 91708

Telephone: (909) 993-1698 Facsimile: (909) 993-1982 Email: jzughbi@ieua.org

2. <u>CONSULTANT ASSIGNMENT</u>: Special inquiries related to this Contract and the effects of this Contract shall be referred to the following:

Consultant: Kim Domptail, Project Manager Address: 320 Goddard Way, Suite 200

Irvine, California 92618

Telephone: (949) 230-1062

Email: kim.domptail@ghd.com

- 3. <u>ORDER OF PRECEDENCE</u>: The documents referenced below represent the Contract Documents. Where any conflicts exist between the General Terms and Conditions, or addenda attached, then the governing order of precedence shall be as follows:
 - A. Amendments to Contract Number 4600002924
 - B. Contract Number 4600002924 General Terms and Conditions.
 - C. Project Manager's Request for Proposal RFP-JV-20-005 (Exhibit A)
 - D. Consultant's Proposal dated April 23, 2020 (Exhibit B)
- 4. <u>SCOPE OF WORK AND SERVICES</u>: Consultant's services and responsibilities shall be in accordance with Project Manager's Request for Proposal, as outlined in **Exhibit A** which is referenced herein, attached hereto, and made a part hereof (hereinafter "Work").
- 5. FAMILIARITY WITH SCOPE OF WORK: By execution of this Agreement, Consultant warrants that:
 - (1) It has thoroughly investigated and considered the scope of the Work under this Agreement to be performed, based on all available information; and
 - (2) It carefully considered how the Work should be performed; and
 - (3) It fully understands the difficulties and restrictions attending the performance of the Work under this Agreement; and
 - (4) It has the professional and technical competency to perform the Work and the production capacity to complete the Work in a timely manner with respect to the Scope of Work.
- 5. <u>TERM</u>: The term of this Contract shall extend from the date of the Notice to Proceed and terminate on June 30, 2021, unless agreed to by both parties, reduced to writing, and amended to this Contract.
- 6. <u>COMPENSATION</u>: Agency shall pay Consultant's once-monthly, properly-executed invoice, approved by the Project Manager, within thirty (30) days following receipt of the invoice by Agency. Invoices shall include the name of assigned personnel, fully-burdened hourly billing rate, dates worked, a brief description of work, as well as the Contract Number 4600002924 for payment. Payment shall be withheld for any service which does not meet Agency requirements or have proven unacceptable until such service is revised, the invoice resubmitted and accepted by the Project Manager. Consultant's original invoice shall be submitted electronically to apgroup@ieua.org. Should Consultant engage in any public works activity covered under California prevailing wage laws (California Labor Code §1720 et seq.) in excess of \$1,000.00 in billing value, Consultant shall provide with all public works invoicing certified payroll verifying that Consultant has paid prevailing wage in accordance with the Department of Industrial Relations requirements as stipulated in SB-854 [http://www.dir.ca.gov/Public-Works/Certified-Payroll-Reporting.html].

In compensation for the Work represented by this Contract, Agency shall pay Consultant NOT-TO-EXCEED a maximum total of **\$148,864.50** for all services provided in accordance with **Exhibit A**, referenced herein, attached hereto, and made a part hereof.

Agency may, at any time, make changes to the Scope of Work, including additions, reductions, and changes to any or all of the Work, as directed in writing by the Agency. Such changes shall be made by an Amendment to the Contract. Any changes shall be made by a written Amendment to the Contract. Consultant's invoice must be submitted according to milestones achieved by Consultant and accepted by the Agency's Project Manager, and shall include a breakdown by items completed, all associated labor provided, labor hours supplied and associated hourly rates, dates worked, the current monthly amount due, and the cumulative amount invoiced to-date against this Contract, using the Agency's standard Excel-based invoicing template **Exhibit C**. Invoice shall not be submitted in advance and shall not be dated earlier than the actual date of submittal. A copy of subject Excel invoicing template shall be furnished by the Agency's Project Manager.

7. <u>CONTROL OF THE WORK</u>: The Consultant shall perform the Work in compliance with the Work Schedule. If performance of the Work falls behind schedule, the Consultant shall accelerate the performance of the Work to comply with the Work Schedule as directed by the Project Manager. If the nature of the Work is such that Consultant is unable to accelerate the Work, Consultant shall promptly notify the Project Manager of the delay, the causes of the delay, and submit a proposed revised Work Schedule.

8. FITNESS FOR DUTY:

- A. Fitness: Consultant on the Jobsite:
 - 1. shall report for work in a manner fit to do their job;
 - shall not be under the influence of or in possession of any alcoholic beverages or of any controlled substance (except a controlled substance as prescribed by a physician so long as the performance or safety of the Work is not affected thereby); and
 - shall not have been convicted of any serious criminal offense which, by its nature, may have a discernible adverse impact on the business or reputation of Agency.
 - 4. <u>Compliance:</u> Consultant shall advise all Consultant and subcontractor personnel and associated third parties of the requirements of this Contract ("Fitness for Duty Requirements") before they enter on the Jobsite and shall immediately remove from the Jobsite any employee determined to be in violation of these requirements. Consultant shall impose these requirements on its Subcontractors. Agency may cancel the Contract if Consultant violates these Fitness for Duty Requirements.
- B. California Department of Industrial Relations: For all public works performed in excess of \$1,000.00, SB854 is applicable:

Effective January 1, 2015: The call for bids and contract documents must include the following information:

- 1. No contractor or subcontractor may be listed on a bid proposal for a public works project (submitted on or after March 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)].
- No contractor or subcontractor may be awarded a contract for public work on a public works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.
- 3. This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations. As such, a PWC-100 shall be generated under the direction of the IEUA Project Manager or their designee.

C. Confined Space Work:

- 1. Precautions and Programs:
 - a. The Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the work or the activities of subcontractors, suppliers, and others at the work site.
 - b. The Contractors and subcontractors shall comply with the provisions of the Safety and Health Regulations for Construction, promulgated by the Secretary of Labor under Section 107 of the "Contract Work Hours and Safety Standards Act," as set forth in Title 29 C.F.R. If the Agency is notified of an alleged violation of the Occupational Safety and Health Standards referred to in this Section and it is established that there is a violation, the Contractor shall be subject to liquidated damages as provided in the Contract.
 - c. The Contractor and all subcontractors shall comply with the provisions of the Occupational Safety and Health Standards, promulgated by the United States Secretary of Labor under the "Occupational Safety and Health Act of 1970," as set forth in Title 29, C.F.R. Where an individual State act on occupational safety and health standards has been approved by federal authority, then the provisions of said state act shall control.
 - d. The Contractor shall take all necessary precautions for the safety of, and shall provide the necessary supervision, control, and direction to prevent damage, injury, or loss to:

- 1) All employees on the work or work site and other persons and organizations who may be affected thereby;
- 2) All the work and materials and equipment to be incorporated therein, whether in storage or on or off the work site; and
- 3) All other property at the site.
- e. Contract work requiring confined space entry must follow Cal-OSHA Regulation 8 CCR, Sections 5157 5158. This regulation requires the following to be submitted to IEUA for approval prior to the start of the project:
 - Proof of training on confined space procedures, as defined in Cal-OSHA Regulation 8 CCR, Section 5157. This regulation also requires the following to be submitted to IEUA for approval prior to the entry of a confined space:
 - 2) A written plan that includes identification of confined spaces within the construction site, alternate procedures where appropriate, contractor provisions, specific procedures for permit-required and non-permit required spaces, and a rescue plan.
- f. The Contractor must also submit a copy of their Safety Program or IIPP prior to the start of the project for approval by the IEUA Safety Department.
- 9. <u>INSURANCE</u>: During the term of this Contract, the Consultant shall maintain at Consultant's sole expense, the following insurance.
 - A. <u>Minimum Scope of Insurance</u>: Coverage shall be at least as broad as:
 - 1. Commercial General Liability (CGL): Insurance Services Office (ISO) Form CG 00 01 covering CGL on an "occurrence" basis, including products and completed operations, property damage, bodily injury and personal & advertising injury with limits no less than \$1,000,000 per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location (ISO CG 25 03 or 25 04) or the general aggregate limit shall be twice the required claim limit.
 - 2. Automobile Liability: ISO Form Number CA 00 01 covering any auto (Code 1), or if Consultant has no owned autos, covering hired, (Code 8) and non-owned autos (Code 9), with limit no less than \$1,000,000 per accident for bodily injury and property damage.
 - 3. Workers' Compensation and Employers Liability: Workers' compensation limits as required by the State of California, with Statutory Limits, and

- Employer's Liability Insurance with limit of no less than \$1,000,000 per accident for bodily injury or disease.
- 4. Professional Liability (Errors and Omissions): Insurance appropriates to the Consultant's profession, with limit no less than \$1,000,000 per occurrence or claim, \$2,000,000 aggregate.
- B. <u>Deductibles and Self-Insured Retention</u>: Any deductibles or self-insured retention must be declared to and approved by the Agency. At the option of the Agency, either: the insurer shall reduce or eliminate such deductibles or self-insured retention as respects the Agency, its officers, officials, employees and volunteers; or the Consultant shall procure a bond guaranteeing payment of losses and related investigations, claims administration and defense expenses.
- C. <u>Other Insurance Provisions</u>: The policies are to <u>contain</u>, or be <u>endorsed to contain</u>, the following provisions:
 - 1. General Liability and Automobile Liability Coverage
 - a. Additional Insured Status: The Agency, its officers, officials, employees, and volunteers are to be covered as additional insureds on the CGL policy with respect to liability arising out of work or operations performed by or on behalf of the Consultant including materials, parts or equipment furnished in connection with such work or operations. General liability coverage can be provided in the form of an endorsement to the Consultant's insurance (at least as broad as ISO Form CG 20 10 11 85 or both CG 20 10, CG 20 26, CG 20 33, or CG 20 38; and CG 20 37 forms if later revisions used).
 - b. Primary Coverage: The Consultant's insurance coverage shall be primary insurance coverage at least as broad as ISO CG 20 01 04 13 as respects the Agency, its officer, officials, employees and volunteers. Any insurance or self-insurance maintained by the Agency, its officers, officials, employees, volunteers, property owners or engineers under contract with the Agency shall be excess of the Consultant's insurance and shall not contribute with it.
 - c. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the Agency, its officers, officials, employees or volunteers.
 - d. The Consultant's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
 - e. The Consultant may satisfy the limit requirements in a single policy or multiple policies. Any such additional policies written as excess insurance

shall not provide any less coverage than that provided by the first or primary policy.

2. Workers' Compensation and Employers Liability Coverage

The insurer hereby grants to Agency a waiver of any right to subrogation which any insurer of said Consultant may acquire against the Agency by virtue of the payment of any loss under such insurance. Consultant agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the Agency has received a waiver of subrogation endorsement from the insurer.

3. All Coverages

Each insurance policy required by this contract shall be <u>endorsed</u> to state that coverage shall not be suspended, voided, canceled by either party, reduced in coverage or in limits except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to the Agency.

- D. <u>Acceptability of Insurers</u>: All insurance is to be placed with insurers with a current A.M. Best's rating of no less than A-:VII, and who are admitted insurers in the State of California.
- E. <u>Verification of Coverage</u>: Consultant shall furnish the Agency with original certificates and amendatory endorsements or copies of the applicable policy language effecting coverage required by this clause. All certificates and endorsements are to be received and approved by the Agency before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the Consultant's obligation to provide them. The Agency reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.
- F. <u>Submittal of Certificates</u>: Consultant shall submit all required certificates and endorsements to the following:

Inland Empire Utilities Agency, a Municipal Water District Attn: Angela Witte P.O. Box 9020 Chino Hills, California 91709

10. <u>LEGAL RELATIONS AND RESPONSIBILITIES</u>

A. <u>Professional Responsibility</u>: The Consultant shall be responsible, to the level of competency presently maintained by other practicing professionals performing the same or similar type of work.

- B. <u>Status of Consultant</u>: The Consultant is retained as an independent Consultant only, for the sole purpose of rendering the services described herein and is not an employee of the Agency.
- C. Observing Laws and Ordinances: The Consultant shall keep itself fully informed of all existing and future state and federal laws and all county and city ordinances and regulations which in any manner affect the conduct of any services or tasks performed under this Contract, and of all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the same. The Consultant shall at all times observe and comply with all such existing and future laws, ordinances, regulations, orders and decrees, and shall protect and indemnify, as required herein, the Agency, its officers, employees and agents against any claim or liability arising from or based on the violation of any such law, ordinance, regulation, order or decree, whether by the Consultant or its employees.
- D. <u>Subcontract Services</u>: Any subcontracts for the performance of any services under this Contract shall be subject to the written approval of the Project Manager. For this project subcontractor list law shall apply.
- E. <u>Conflict of Interest</u>: No official of the Agency who is authorized in such capacity and on behalf of the Agency to negotiate, make, accept or approve, or to take part in negotiating, making, accepting or approving this Contract, or any subcontract relating to services or tasks to be performed pursuant to this Contract, shall become directly or indirectly personally interested in this Contract.
 - Consultant understands and acknowledges that executing this Agreement may inhibit the Consultant from engaging in future contracts, jobs, or agreements with the Agency that is, or can be considered, related to the Scope of Work due to a potential conflict of interest.
- F. Equal Opportunity and Unlawful Discrimination: During the performance of this Contract, the Consultant shall not unlawfully discriminate against any employee or employment applicant because of race, color, religion, sex, age, marital status, ancestry, physical or mental disability, sexual orientation, veteran status or national origin. The Agency is committed to creating and maintaining an environment free from harassment and discrimination. To accomplish these goals the Agency has established procedures regarding the implementation and enforcement of the Agency's Harassment Prohibition and Equal Employment Opportunity commitments. Please refer to IEUA Policies A-29 (Equal Employment Opportunity) and A-30 Harassment Prohibition for detailed information or contact the Agency's Human Resources Administrator. A copy of either of these Policies can be obtained by contacting the Project Manager for your respective Contract. Please advise any of your staff that believes they might have been harassed or discriminated against while on Agency property, to report said possible incident to either the Project Manager, or the Agency's Human Resources Administrator. Please be assured that any possible infraction shall be thoroughly investigated by the Agency.

G. Non-Conforming Work and Warranty: Consultant represents and warrants that the Work and Documentation shall be adequate to serve the purposes described in the Contract. For a period of not less than one (1) year after acceptance of the completed Work, Consultant shall, at no additional cost to Agency, correct any and all errors in and shortcomings of the Work or Documentation, regardless of whether any such errors or shortcoming is brought to the attention of Consultant by Agency, or any other person or entity. Consultant shall within three (3) calendar days, correct any error or shortcoming that renders the Work or Documentation dysfunctional or unusable and shall correct other errors within thirty (30) calendar days after Consultant's receipt of notice of the error. Upon request of Agency, Consultant shall correct any such error deemed important by Agency in its sole discretion to Agency's continued use of the Work or Documentation within seven (7) calendar days after Consultant's receipt of notice of the error. If the Project Manager rejects all or any part of the Work or Documentation as unacceptable and agreement to correct such Work or Documentation cannot be reached without modification to the Contract, Consultant shall notify the Project Manager, in writing, detailing the dispute and reason for the Consultant's position. Any dispute that cannot be resolved between the Project Manager and Consultant shall be resolved in accordance with the provisions of this Contract. The Consultant's liability with respect to any claims arising out of the Work and the Consultant shall bear no liability whatsoever for any consequential loss, injury or damage incurred by the Agency, including but not limited to, claims for loss of use, loss of profits and loss of markets.

H. <u>Disputes</u>:

- All disputes arising out of or in relation to this Contract shall be determined in accordance with this section. The Consultant shall pursue the work to completion in accordance with the instruction of the Agency's Project Manager notwithstanding the existence of dispute. By entering into this Contract, both parties are obligated, and hereby agree, to submit all disputes arising under or relating to the Contract, which remain unresolved after the exhaustion of the procedures provided herein, to independent arbitration. Except as otherwise provided herein, arbitration shall be conducted under California Code of Civil Procedure Sections 1280, et. seq, or their successor.
- 2. Any and all disputes during the pendency of the work shall be subject to resolution by the Agency Project Manager and the Consultant shall comply, pursuant to the Agency Project Manager instructions. If the Consultant is not satisfied with any such resolution by the Agency Project Manager, they may file a written protest with the Agency Project Manager within seven (7) calendar days after receiving written notice of the Agency's decision. Failure by Consultant to file a written protest within seven (7) calendar days shall constitute waiver of protest, and acceptance of the Agency Project Manager's resolution. The Agency's Project Manager shall submit the Consultant's written protests to the General Manager, together with a copy of the Agency Project Manager's written decision, for his or her consideration within seven (7) calendar days after receipt of said protest(s). The General Manager shall make his or her determination with respect to each protest filed with the

Agency Project Manager within ten (10) calendar days after receipt of said protest(s). If Consultant is not satisfied with any such resolution by the General Manager, they may file a written request for arbitration with the Project Manager within seven (7) calendar days after receiving written notice of the General Manager's decision.

- 3. In the event of arbitration, the parties hereto agree that there shall be a single neutral Arbitrator who shall be selected in the following manner:
 - a. The Demand for Arbitration shall include a list of five names of persons acceptable to the Consultant to be appointed as Arbitrator. The Agency shall determine if any of the names submitted by Consultant are acceptable and, if so, such person shall be designated as Arbitrator.
 - b. In the event that none of the names submitted by Consultant are acceptable to Agency, or if for any reason the Arbitrator selected in Step (a) is unable to serve, the Agency shall submit to Consultant a list of five names of persons acceptable to Agency for appointment as Arbitrator. The Consultant shall, in turn, have seven (7) calendar days in which to determine if one such person is acceptable.
 - c. If after Steps (a) and (b), the parties are unable to mutually agree upon a neutral Arbitrator, the matter of selection of an Arbitrator shall be submitted to the San Bernardino County Superior Court pursuant to Code of Civil Procedure Section 1281.6, or its successor. The costs of arbitration, including but not limited to reasonable attorneys' fees, shall be recoverable by the party prevailing in the arbitration. If this arbitration is appealed to a court pursuant to the procedure under California Code of Civil Procedure Section 1294, et. seq., or their successor, the costs of arbitration shall also include court costs associated with such appeals, including but not limited to reasonable attorneys' fees which shall be recoverable by the prevailing party.
- 4. Joinder in Mediation/Arbitration: The Agency may join the Consultant in mediation or arbitration commenced by a subcontractor on the Project pursuant to Public Contracts Code Sections 20104 et seq. Such joinder shall be initiated by written notice from the Agency's representative to the Consultant.
- 11. INDEMNIFICATION: Consultant shall indemnify the Agency, its directors, employees and assigns, and shall defend and hold them harmless from all liabilities, demands, actions, claims, losses and expenses, including reasonable attorneys' fees, which arise out of or are related to the negligence, recklessness or willful misconduct of the Consultant, its directors, employees, agents and assigns, in the performance of work under this Contract, to the extent caused by Consultant's negligence or willful misconduct. Notwithstanding the foregoing, to the extent that this Contract includes design professional services under Civil Code Section 2782.8, as may be amended from time to time, such duties of

Consultant to defend and to indemnify Agency shall only be to the full extent permitted by Civil Code Section 2782.8.

12. OWNERSHIP OF MATERIALS AND DOCUMENTS/CONFIDENTIALITY: The Agency retains ownership of any and all partial or complete reports, drawings, plans, notes, computations, lists, and/or other materials, documents, information, or data prepared by the Consultant and/or the Consultant's subcontractor(s) pertaining to this Contract. Any modifications or reuse of such materials for purposes other than those intended by the Contract shall be at the Agency's sole risk and without liability to Consultant. Said materials and documents are confidential and shall be available to the Agency from the moment of their preparation, and the Consultant shall deliver same to the Agency whenever requested to do so by the Project Manager and/or Agency. The Consultant agrees that same shall not be made available to any individual or organization, private or public, without the prior written consent of the Agency.

13. TITLE AND RISK OF LOSS:

- A. <u>Documentation:</u> Title to the Documentation shall pass to Agency when prepared; however, a copy may be retained by Consultant for its records and internal use. Consultant shall retain such Documentation in a controlled access file, and shall not reveal, display or disclose the contents of the Documentation to others without the prior written authorization of Agency or for the performance of Work related to the Project.
- B. <u>Material:</u> Title to all Material, field or research equipment, and laboratory models, procured or fabricated under the Contract shall pass to Agency when procured or fabricated, and such title shall be free and clear of any and all encumbrances. Consultant shall have risk of loss of any Material or Agency-owned equipment of which it has custody.
- C. <u>Disposition:</u> Consultant shall dispose of items to which Agency has title as directed in writing by the Agreement Administrator and/or Agency.

14. PROPRIETARY RIGHTS:

- A. <u>Rights and Ownership:</u> Agency's rights to inventions, discoveries, trade secrets, patents, copyrights, and other intellectual property, including the Information and Documentation, and revisions thereto (hereinafter collectively referred to as "Proprietary Rights"), used or developed by Consultant in the performance of the Work, shall be governed by the following provisions:
 - 1. Proprietary Rights conceived, developed, or reduced to practice by Consultant in the performance of the Work shall be the property of Agency, and Consultant shall cooperate with all appropriate requests to assign and transfer same to Agency.
 - 2. If Proprietary Rights conceived, developed, or reduced to practice by Consultant prior to the performance of the Work are used in and become

integral with the Work or Documentation, or are necessary for Agency to have complete enjoyment of the Work or Documentation, Consultant shall grant to Agency a non-exclusive, irrevocable, royalty-free license, as may be required by Agency for the complete enjoyment of the Work and Documentation, including the right to reproduce, correct, repair, replace, maintain, translate, publish, use, modify, copy or dispose of any or all of the Work and Documentation and grant sublicenses to others with respect to the Work and Documentation.

- 3. If the Work or Documentation includes the Proprietary Rights of others, Consultant shall procure, at no additional cost to Agency, all necessary licenses regarding such Proprietary Rights so as to allow Agency the complete enjoyment of the Work and Documentation, including the right to reproduce, correct, repair, replace, maintain, translate, publish, use, modify, copy or dispose of any or all of the Work and Documentation and grant sublicenses to others with respect to the Work and Documentation. All such licenses shall be in writing and shall be irrevocable and royalty-free to Agency.
- B. <u>No Additional Compensation:</u> Nothing Set forth in this Contract shall be deemed to require payment by Agency to Consultant of any compensation specifically for the assignments and assurances required hereby, other than the payment of expenses as may be actually incurred by Consultant in complying with this Contract.
- 15. <u>INFRINGEMENT:</u> Consultant represents and warrants that the Work and Documentation shall be free of any claim of trade secret, trade mark, trade name, copyright, or patent infringement or other violations of any Proprietary Rights of any person.

Consultant shall defend, indemnify and hold harmless, Agency, its officers, directors, agents, employees, successors, assigns, servants, and volunteers free and harmless from any and all liability, damages, losses, claims, demands, actions, causes of action, and costs including reasonable attorney's fees and expenses arising out of any claim that use of the Work or Documentation infringes upon any trade secret, trade mark, trade name, copyright, patent, or other Proprietary Rights.

Consultant shall, at its expense and at Agency's option, refund any amount paid by Agency under the Contract, or exert its best efforts to procure for Agency the right to use the Work and Documentation, to replace or modify the Work and Documentation as approved by Agency so as to obviate any such claim of infringement, or to put up a satisfactory bond to permit Agency's continued use of the Work and Documentation.

16. <u>NOTICES</u>: Any notice may be served upon either party by delivering it in person, or by depositing it in a United States Mail deposit box with the postage thereon fully prepaid, and addressed to the party at the address set forth below:

Agency: Warren T. Green

Manager of Contracts

Inland Empire Utilities Agency, a Municipal Water District

P.O. Box 9020

Chino Hills, California 91709

Consultant: Kim Domptail, Project Manager

Project Manager

GHD Inc.

320 Goddard Way, Suite 200 Irvine, California 92618

Any notice given hereunder shall be deemed effective in the case of personal delivery, upon receipt thereof, or, in the case of mailing, at the moment of deposit in the course of transmission with the United States Postal Service.

- 17. <u>SUCCESSORS AND ASSIGNS</u>: All of the terms, conditions and provisions of this Contract shall inure to the benefit of and be binding upon the Agency, the Consultant, and their respective successors and assigns. Notwithstanding the foregoing, no assignment of the duties or benefits of the Consultant under this Contract may be assigned, transferred or otherwise disposed of without the prior written consent of the Agency; and any such purported or attempted assignment, transfer or disposal without the prior written consent of the Agency shall be null, void and of no legal effect whatsoever.
- 18. PUBLIC RECORDS POLICY: Information made available to the Agency may be subject to the California Public Records Act (Government Code Section 6250 et seq.) The Agency's use and disclosure of its records are governed by this Act. The Agency shall use its best efforts to notify Consultant of any requests for disclosure of any documents pertaining to this work.

In the event of litigation concerning disclosure of information Consultant considers exempt from disclosure, (e.g., "Confidential," "Proprietary" or "Trade Secret,") Agency shall act as a stakeholder only, holding the information until otherwise ordered by a court or other legal process. If Agency is required to defend an action arising out of a Public Records Act request for any of the information Consultant has marked "Confidential," "Proprietary" or "Trade Secret," Consultant shall defend and indemnify Agency from all liability, damages, costs, and expenses, including attorneys' fees, in any action or proceeding arising under the Public Records Act.

- 19. <u>CERTIFICATION UNDER LABOR CODE SECTION 1861 BY CONSULTANT</u>: I, the undersigned Consultant, am aware of the provisions of Section 3700 et seq. of the Labor Code which requires every employer to be insured against liability for Worker's Compensation or to undertake self-insurance in accordance with the provisions of the Code, and I, the undersigned Consultant, agree to and will comply with such provisions before commencing the performance of the work of this Agreement.
- 20. <u>RIGHT TO AUDIT</u>: The Agency reserves the right to review and/or audit all Consultant's records related to the Work. The option to review and/or audit may be exercised during the term of the Contract, upon termination, upon completion of the Contract, or at any time thereafter up to twelve (12) months after termination of the Contract. The Consultant shall make all records and related documentation available within three (3) working days after said records are requested by the Agency.

- 21. <u>INTEGRATION</u>: The Contract Documents represent the entire Contract of the Agency and the Consultant as to those matters contained herein. No prior oral or written understanding shall be of any force or effect with respect to those matters covered by the Contract Documents. This Contract may not be modified, altered or amended except by written mutual agreement by the Agency and the Consultant.
- 22. <u>GOVERNING LAW</u>: This Contract is to be governed by and constructed in accordance with the laws of the State of California, County of San Bernardino.
- 23. <u>TERMINATION FOR CONVENIENCE</u>: The Agency reserves and has the right to immediately suspend, cancel or terminate this Contract at any time upon written notice to the Consultant. In the event of such termination, the Agency shall pay Consultant for all authorized and Consultant-invoiced services up to the date of such termination.
- 24. <u>FORCE MAJEURE</u>: Neither party shall hold the other responsible for the effects of acts occurring beyond their control; e.g., war, riots, strikes, natural disasters, etcetera.
- 25. <u>NOTICE TO PROCEED</u>: No services shall be performed or furnished under this Contract unless and until this document has been properly signed by all responsible parties and a Notice to Proceed order has been issued to the Consultant.
- 26. <u>AGENCY-PROVIDED INFORMATION AND SERVICES</u>: The Agency shall furnish Consultant available studies, reports and other data pertinent to Consultant's services; obtain or authorize Consultant to obtain or provide additional reports and data as required; furnish to Consultant services of others required for the performance of Consultant's services hereunder, all subject to Agency's prior approval, and Consultant shall be entitled to use and rely upon all such information and services provided by the Agency or others in performing Consultant's services under this Agreement.
- 27. <u>THIRD PARTIES</u>: The services to be performed by Consultant are intended solely for the benefit of the Agency. No person or entity not a signatory to this Agreement shall be entitled to rely on Consultant's performance of its services hereunder, and no right to assert a claim against Consultant by assignment of indemnify rights or otherwise shall accrue to a third party as a result of this Agreement of the performance of Consultant's services hereunder.

IN WITNESS WHEREOF, the parties hereto have caused the Contract to be entered as of the day and year written above.

| INLAND EMPIRE UTILITIES AGEN | CY: | GHD INC.: | |
|------------------------------|--------|--------------------------|-----------|
| (A Municipal Water District) | | 0 | |
| | | Jan Sk | 6/24/2020 |
| Shivaji Deshmukh | (Date) | Paul Hermann | (Date) |
| General Manager | | Principal/Vice President | |

Exhibit A



March 26, 2020

REQUEST FOR PROPOSALS

ENGINEERING CONSULTING SERVICES FOR

RP-5 SOLIDS HANDLING FACILITY
FUTURE USES EVALUATION

RFP-JV-20-005

Project No. EN20034.03

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Request for Proposals

to provide

ENGINEERING CONSULTING SERVICES FOR

RP-5 SOLIDS HANDLING FACILITY FUTURE USES EVALUATION

RFP-JV-20-005

Project No. EN20034.03

March 26, 2020

1. REQUEST FOR PROPOSALS

Proposals are being accepted by the Inland Empire Utilities Agency (IEUA) or (Agency), a Municipal Water District, for Engineering Consulting Services (hereinafter referred to as "Consultant") required for the Regional Plant No. 5 (RP-5) Solids Handling Facility (SHF) Future Uses Evaluation.

2. PROCESSING OF PROPOSALS

To receive consideration, submit an electronic copy of the proposal through PlanetBids and upload it to the Response File, and also submit separately the cost proposal (consulting services fee) and upload to the Cost File within PlanetBids by April 23, 2020 to the attention of Jordan Villalobos. No hard copies shall be delivered to the Agency's physical address. For information, IEUA's Headquarters is located on 6075 Kimball Ave, Building A, Chino, California, 91708. The package of the electronic copy of the proposal shall be clearly marked "RP-5 SOLIDS HANDLING FACILITY - FUTURE USES EVALUATION" and the fee proposal electronic copy marked "FEE PROPOSAL - RP-5 SOLIDS HANDLING FACILITY - FUTURE USES EVALUATION - DO NOT OPEN". All proposals will be held in confidence prior to the opening date.

An optional pre-proposal briefing, and site tour will be held on April 2, 2020, 9:00 AM with prospective Consultants at the RP-5 SHF located on 16090 Mountain Ave, Chino, CA 91710. Personal Protection Equipment (PPE) including hard hats, vests, glasses, footwear, etc. will not be provided by IEUA and they will be required during the tour. Due to current COVID-19 situation, recommended social distancing shall be enforced during the site tour.

Any relevant questions concerning the Request for Proposals (RFP) or the Scope of Work other than those asked at the pre-proposal meeting shall be directed in writing to IEUA's Project Manager:

Jamal Zughbi, P.E. Inland Empire Utilities Agency P.O. Box 9020 Chino Hills, California 91709 (909) 993-1698 Email: jzughbi@ieua.org

All questions must be received prior to April 13, 2020. Answers to these questions will be sent to all prospective Consultants. No answers will be given on an individual basis.

IEUA reserves the right, after opening the proposals, to reject any or all proposals, or, to accept proposal(s) that in its sole judgment, are in the best interest of IEUA.

Prospective Consultants assume the risk of any delay in mail or handling of mail by IEUA's employees. Applicants are therefore responsible for ensuring that proposals are received on time at the specified location by the specified time whether they are sent by mail or delivered in person. Oral, telegraphic, or telephonic proposals or modifications will not be considered. More than one proposal from an individual, firm, partnership, corporation or association under the same or different names shall not be considered.

3. INLAND EMPIRE UTILITIES AGENCY DESCRIPTION

IEUA is a regional sewage treatment and water agency that provides sewage treatment, solids waste handling, composting, wholesale water delivery and recycled water to the west end of San Bernardino County. Its 242 square mile service area includes the cities of Upland, Montclair, Ontario, Fontana, Chino and Chino Hills; Cucamonga Valley Water District which services the city of Rancho Cucamonga and the unincorporated areas of San Bernardino County, including the Chino agricultural preserve.

4. PROJECT BACKGROUND

The Inland Empire Utilities Agency (IEUA) commissioned an Organic Management Study in August 2000. This resulted in the development of an Organics Management Strategy Business Plan followed by the construction of the RP-5 SHF and the Renewable Energy Efficiency Project (REEP) cogeneration facility located behind IEUA's Headquarters Building B. The SHF went into operation in phases between 2002 and 2007 with the intent to process cow manure and food wastes, produce biogas and generate power. The REEP facility construction was completed in 2006 and partially commissioned in 2007. However, the operation of both facilities was suspended in early 2008 for further evaluation. In conclusion, and in early 2010, IEUA decided to lease the SHF and REEP to a third party, Inland BioEnergy (lead by Burrtec Inc.) which operated the system as a food waste digestion facility while surplus power was sold to IEUA as part of the Power Purchase Agreement between IEUA and Burrtec. At the end of March 2019, the Lease Agreement with Burrtec came to an end. As a result, IEUA would like to evaluate alternative uses for the facilities and/or site and develop a plan as detailed in the Project Description section below.

IEUA seeks the services of a Consultant to evaluate the future uses of the RP-5 SHF and prepare a detailed report/plan including supporting documents to help IEUA Executive Management select the most feasible and cost effective option outlined in the Consultant's evaluation report.

A. Environmental Review

IEUA will be responsible for the preparation and processing of all environmental review documents. However, the Consultant shall provide the engineering support needed to incorporate the environmental review/impact into the evaluation, where applicable. This will include the review of the Program Environmental Impact Report and adopted mitigation measures that have to be included in the project design.

If the project description changes from that stated in the Program Environmental Impact Report, IEUA will be responsible for preparing and processing the required environmental review documents. The Consultant will, however, provide the engineering support, needed to incorporate the adopted mitigation measures into the project evaluation, if required. Consultant shall have an allowance of \$10,000 in their fee estimate for this task item.

5. PROJECT DESCRIPTION

As discussed in the Project Background section above, the RP-5 SHF is currently idle and not being utilized. Some of the equipment and systems condition may range from good to fair to obsolete as they were used for various applications/services since 2005. Therefore, IEUA is exploring options with regards to its future use. The successful consultant shall prepare a list of all viable options and provide a detailed evaluation of each option, supported with financial analysis, pros and cons, business case evaluation, etc. The Consultant shall prepare a detailed evaluation report with executive summary and present to key Agency staff and guide them through the options, justifications, conclusion and recommendation.

These options/alternatives may include, but not limited, to the following:

- 1- Do nothing, maintain the facilities as-is, retain land
- 2- Demolish the facilities and sell the land
- **3-** Demolish the facility, regrade, build a warehouse and lease for 20 years
- **4-** Sell the property and equipment as is
- 5- Lease the facilities to a third party to operate for an extended period (~20 years)
- 6- Sell the equipment to a third party (As-is) and retain the land; and,
- **7-** Enter into partnership with third party firms

Note: Food waste handling and processing, if any, shall all be done by others. The Agency will not be involved in any food waste processes.

RP-5 Solids Handling Facility Future Uses Evaluation Project No. EN20034.03

6. SCOPE OF WORK

The Consultant shall provide the engineering services discussed and specified under this section and other sections such as Project Background, Project Description, and other requirements specified throughout the document.

The Consultant shall thoroughly investigate the RP-5 SHF, visually assess the overall condition of the facility including structures, flare, mechanical, electrical and control equipment, review available plans and specifications (as applicable), and gather necessary technical and commercial data that will be needed for cost analysis and evaluation of all feasible options.

Below is a brief description of each of the potential options that need to be detailed and evaluated by the Consultant. The Consultant may add to the options below as he/she sees it fit for this project.

Option 1 – Do Nothing, Maintain the Facilities As-Is, Retain Land

This option would allow the site to stay in the current condition and to keep it dormant as is without any beneficial uses. Prior to mothballing the facilities, they would need to be cleaned. It is assumed that all solids from the process tanks such as the below grade plug flow digester and above ground steel digesters would be transferred to an off-site facility for treatment and disposal.

Option 2 – Demolish the Facilities and Sell the Land

This option would entail full and complete demolition of the site facilities (digesters, buildings and mechanical and electrical equipment, etc.) and then restoration of the site for sale to develop commercial warehouses. The Consultant shall work with a commercial real estate appraisal company to assess its value for this alternative. A cost estimate for full demolition of all site facilities, including below grade equipment, and restoration of the site, shall be prepared. Analysis shall also include the estimated sale value after restoring the site for commercial sale.

Note: Some of the equipment has value so this option should include auctioning off assets.

Option 3 – Demolish, regrade the facility, build a warehouse and lease for 20 years

This option may allow the Agency to invest in the real estate sector and generate some revenue while keeping the land. The property value would continue to appreciate over the potential 20-year lease period. **Option 4 – Sell the Property and Equipment As Is**

RP-5 Solids Handling Facility Future Uses Evaluation Project No. EN20034.03

Request for Proposals March 26, 2020 This option would entail a sale of the property and all the equipment in its current condition. The Consultant shall work with a commercial real estate appraisal company to assess its value. Analysis shall estimate the deduction value that may be resulted from demolition of the equipment and restoring the site by interested developers and investment firms.

Option 5 – Revive the Operation of the Facilities by Third Party – Lease Agreement

This alternative is similar to Option 4, except that in this case the SHF would be operated by a third party and retrofit costs will borne by the third party. To provide a basis for the cost comparison for this alternative, the previous monthly lease agreement terms with Burrtec may be used. Allowance for inflation will be applied.

There are two sub options to this alternative:

Option 5.1) The third party would lease the entire site as-is for an extended time period of 20-years. The lease holder shall be responsible for restoring the equipment for the intended operations as well as ongoing maintenance of the equipment. The lease holder will be responsible for all permit fees as required.

Option 5.2) The third party would purchase the equipment in its current condition and then lease the property for an extended time period of 20-years. Responsibility for equipment maintenance would rest with the lease holder. At the end of the term, the lease holder may abandon equipment in place or dismantle and haul away the equipment as needed.

In both cases, the 20- year lease option would allow transfer of permits to the third party (if allowed by SCAQMD) to reduce IEUA's liability. The third party would have the option to sell the biogas to IEUA for use in the REEP engines subject to successful negotiation to avoid the need to buy emission credits at SHF. Or the third party may also consider digester gas conversion to CNG or RNG with pipeline injection.

Option 6 – Sell the equipment to a third party (As-is) and retain the land

Consultant shall evaluate this option based on visual inspection and assessment of the existing equipment and systems. It shall be the responsibility of the buyer to dismantle and haul away the equipment. No guarantees shall be provided by IEUA regarding the condition, functionality and performance of the equipment. Equipment will be sold as-is.

Option 7– Enter into partnership with third party firms

Consultant shall reach out to firms that have shown interest in utilizing the facility and discuss in general terms if they have any valid offers to IEUA which may bring tangible revenue without considerable financial contribution from IEUA.

IEUA has been approached by multiple companies and firms who showed interest in the RP-5 SHF in terms of using the facility for food waste (and other organic materials) processing for the purpose of power generation or digester gas conversion to CNG or RNG. IEUA did not discuss any future utilization specifics with any firm. The list of firms contacted IEUA and toured the facility will be provided to the successful consultant after contract award. The Consultant shall reach out to these companies and discuss their potential approach and investment plans.

Additionally, IEUA is in the process of receiving bids for the RP-5 Expansion Project which involves major upgrades of the existing wastewater treatment facilities. The RP-5 Expansion Project will utilize a small area on the south-east corner of the RP-5 SHF for a drain sump pump system which should not interfere with the RP-5 SHF operations. The RP-5 Expansion Project will also utilize the existing parking lot at the RP-5 SHF for subcontractor landing area and trucks parking. Construction of the RP-5 Expansion Project will last approximately five years. If a successful third party investing proposal appears to be beneficial to IEUA, arrangements can be made to expand the parking lot to the north side to accommodate the abovementioned subcontractor trucks.

In addition to the meeting identified below, Consultant shall plan for additional meetings appropriate for the Project's level of complexity. For all Project Meetings/Workshops, the Consultant shall be responsible for providing meeting agendas, preparing meeting handouts, and taking notes to prepare final meeting minutes. Agendas shall be submitted to IEUA for review a minimum of 24 hours prior to respective dates. Action items from Meetings/Workshops shall be submitted to IEUA within 24 hours following the conclusions of such milestones. The Consultant shall provide scope items including, but not limited to, the following:

A. KICKOFF MEETING

Prior to proceeding with the project, the Consultant shall review all necessary documents and shall attend an informal meeting to receive IEUA's input. There will be no design effort required from the Consultant as part of this project. However, consulting engineering services shall be provided as specified throughout the RFP.

B. ENVIRONMENTAL REVIEW

As stated in the Project Background and elsewhere in this RFP, IEUA will be responsible for the preparation and processing of the required environmental review documents. The Consultant shall provide IEUA with detailed project descriptions, maps, technical data and other applicable information required to prepare and submit the permit applications as required.

C. EVALUATION REPORT (TECHNICAL MEMORANDA)

The Consultant shall prepare a complete Evaluation Report composed of an executive summary describing the project and highlighting findings, conclusions and recommendations. The Report shall also include subsequent technical memoranda (TMs) as outlined below. The TMs shall provide all the necessary information required for IEUA to select the most cost effective option. The Consultant shall provide a full Business Case Evaluation (BCE) of all alternatives and options included in the Report. The BCE shall show cost and revenues for future uses, revenue from selling the property, lease or revenue sharing from operating the food waste digester and beneficial uses of the biogas from the project. The BCE shall be prepared following IEUA's Business Case Evaluation Manual included in Attachment J.

The following are the required TMs:

Technical Memorandum No. 1 - Executive Summary

Technical Memorandum No. 2 - Options Analysis – Provide Separate

Subsection for Each Option

Technical Memorandum No. 3 - Regulatory Requirements and Permits;

AQMD, IEBL, etc.

Technical Memorandum No. 4 Conclusions and Recommendations

- D. Schedule Review and confirm the project schedule with sufficient details to show significant milestones, reviews, permits, and interdependency of significant elements. See Attachment "B" for the anticipated project schedule.
- E. Evaluation Report Review Meeting and Presentations
 Upon review of the final Evaluation Report by IEUA staff, the Consultant shall
 participate in a meeting to discuss the report and IEUA comments on the report.
 The Consultant shall incorporate final agreed upon comments and resubmit the
 report for further action and/or records. If requested by IEUA Executive
 Management, the Consultant shall prepare a PowerPoint with findings and
 recommendations and present to the Board of Directors to facilitate the decision
 making process.

7. DELINEATION OF RESPONSIBILITIES

A. RESPONSIBILITIES OF THE CONSULTANT

IEUA intends to employ a Consultant who will provide the services necessary to complete the described scope of work. If the responsibility for any services required to complete the project are not specifically delineated herein, the Consultant is responsible for such activity.

- i. Survey The Consultant shall complete any required field surveys. IEUA will not provide field surveys.
- ii. Soil Borings N/A
- iii. The Consultant shall keep IEUA informed, on regular basis, regarding the status of the current phase of the project and the decisions regarding the project as they are made. The Consultant may be called upon to attend meetings during any phase of the work as required by IEUA to give technical advice or to inform various groups on the status or nature of the project.
- iv. Insurance The Consultant shall provide insurance while executing the work required under any contract which may result from submittal of his/her proposal per the requirements in the sample contract attached to this Request for Proposal as Attachment C.
- v. Invoices The Consultant shall submit invoices in accordance with Requirements in Section 11-Payment to Consultant.
- vi. Project Construction Cost N/A.
- vii. Extra Work If at any time during the project, the Consultant receives instructions outside the scope of work, they shall immediately notify IEUA and confirm the verbal statement in writing. No compensation will be made to the Consultant without a fully executed amendment prior to initiating the extra work.
- viii. Calculations (where applicable) Example: Gas production estimates and associated power generation, estimated cost of retrofits, other

B. RESPONSIBILITIES OF IEUA

IEUA shall provide to the Consultant available documents, studies, plans and specifications which are in IEUA's possession and might be useful in the evaluation and analysis of the Work described. However, the Consultant shall review IEUA's records, select the desired reference items and provide the required reproduction.

IEUA staff shall be available to discuss and provide examples of accepted procedures within IEUA for the review and processing of submittals as applicable.

C. TERMINATION OF CONTRACT

IEUA reserves the right to terminate any contract which may result from this proposal at any time with thirty (30) days written notice. In such cases, the Consultant shall be paid for work done through the termination date and all work done to that date shall become the property of IEUA.

8. SUBMITTALS/DELIVERABLES

- **A.** Draft Evaluation Report
 - a. 10 hard copies
 - b. Electronic: CD or Flash Drive
 - c. PDF of the compiled report (email)
- **B.** Final Evaluation Report
 - a. 3 hard copies
 - a. Electronic: CD or Flash Drive
 - b. PDF of the compiled report (email)
- **C.** Meetings
 - a. Kickoff meeting
 - b. Site Investigations as needed
 - c. Report review meeting
 - d. Board presentation, if requested

9. PROJECT SCHEDULE

It is the goals of IEUA to complete project by the end of November 2020, in accordance with the funding requirements. IEUA intends to maintain the established project schedule. Each proposing Consultant shall review the time allotted to complete the Work. The Consultant shall develop these sub-schedules in a way to meet the desired construction date. The overall project schedule is included in Attachment "B".

Adherence to the project schedules is of primary importance. The successful Consultant shall be required to meet (or exceed) all schedule milestones.

10. PAYMENT TO CONSULTANT

The Project Contract will be paid on a time and material basis with a not-to-exceed total amount. Payments to Consultant for services provided will be made by IEUA based on monthly invoices upon verification and approval by IEUA's Project Manager. The Consultant shall be responsible for the submission of invoices in accordance with IEUA's invoice format and including the following:

- Percent complete and percent spent for every project phase/task per Attachment "D"
- Itemized labor rates and hours
- Subconsultant charges
- Direct expenses
- Status report indicating major accomplishments, any budget and scheduling issues, and a look ahead schedule listing deliverables and activities planned for the next period

11. PROPOSAL FORMAT

The body of the proposal shall include the following items. Items referenced as an attachment shall be included in the appendices of the proposal. The proposal should include the following information as a minimum:

- A detailed proposed scope of work and technical approach based upon the information contained in the "Scope of Work" section of this Request for Proposal.
- Descriptions of the specific experience and capabilities relative to the scope of work of the designated Project Manager, Project Engineer, and support staff. Key personnel assigned to the project shall not be reassigned without prior written approval from IEUA
- A description of the project team's past record of performance on similar projects, with references. This will include a discussion of such factors as control of costs, innovations, quality of work and ability to meet schedules.
- Information about projects, which the interested firm has completed within the past five years. This information shall include, for each project, a brief description of the project, facility size, name, address, telephone number and recommendations from the facility owner.

- A description of the proposed management approach for the project, including the method of keeping IEUA informed on the progress of the project.
- A description of any joint venture and/or proposed subcontract arrangements which would be utilized during the project.
- An organizational chart of Consultant's proposed team.
- Proposed time schedule for completion of each phase of the Work. A minimum
 of 14 working days shall be included for IEUA staff review period. The schedule
 provided in Attachment "B" is the minimum desirable. Commitment, by
 Consultant, to a shorter schedule will be considered to be a positive item in the
 selection process.
- Work Effort: The Consultant shall provide, in the body of the proposal, fully itemized schedule of estimated effort for each task for the entire project, expressed in work hours, for each employee classification required to complete each phase of the work.
- Fee Schedule: The Consultant shall provide, in a **separate sealed envelope**, a fully itemized proposed fee to perform all scope items listed above broken down by phase and task. The Fee Schedule should be based on a Work Breakdown Structure showing major project elements and associated level of efforts (i.e., labor hours) for each key project staff plus expenses.
- A list of current and past projects with IEUA: The Consultant shall list all contracts with IEUA in the last five (5) years. Include project name, contract value, IEUA Project Manager, and Consultant key staff involved.

The Consultant should consider presenting to IEUA "Optional" tasks which go above and beyond those items listed in the proposal scope of work that improve and/or enhance the project. These Optional tasks should have a separate line item with their associated fees.

If a sub-consultant is to be used, work hours for each sub-consultant shall be listed separately for each Work element. The fees to be paid to sub-consultants shall be shown separately for each phase and for each sub-consultant.

After all other parameters have been evaluated, the fee envelope of the most qualified Consultant will be opened and the estimated fee will be negotiated.

• Exceptions to this Request for Proposals: Any changes from the provisions of this Request for Proposals and Sample of Standard Contract, which are desired by the Consultant, shall be specifically noted in the attached Exception Form (Attachment "E").

- Documentation that personal or organization conflicts of interest prohibited by law do not exist. (The Consultant is subject to State and Federal conflict of interest)
- Firms shall complete and return with their proposal the Workers' Compensation Certificate form provided (Attachment "F").
- The Consultant shall include 2-page résumés for the project key team members. The résumés shall provide specific information about the team member's experience with similar type projects.
- The Consultant shall complete and return with their proposal the Business Ownership Information form provided (Attachment "I")

12. SELECTION OF CONSULTANT

A. QUALIFICATIONS

The Consultant may be a single firm or a joint venture and must show evidence of technical capability and experience in the key areas identified in the Scope of Work. Also, construction administration experience will be considered. The experience presented should be for a period covering the last five (5) years. The Consultant shall also be familiar with the regulatory constraints, which will govern this project. The consulting firm cannot submit a proposal as both a prime and a sub-consultant or a joint venture.

B. CRITERIA FOR SELECTION

Selection among the proposals received shall be based upon (but not necessarily in the order given) the following:

- The firm's organization, history, reputation, location and capability to perform all aspects of the work.
- The firm's ability to provide innovative, creative, cost reducing alternatives to meet IEUA's needs.
- Qualifications and experience of the personnel and project team to be assigned to the project including appropriate professional registrations.
- Ability to commence work immediately after execution of the contract and complete the required work within the desired time and allotted budget including any project funding requirements.

RP-5 Solids Handling Facility Future Uses Evaluation Project No. EN20034.03

- Thoroughness of the Consultant's scope of the proposed work and realistic plan for completion of the project.
- Proposed staffing work effort.
- Exceptions to the request for proposals taken by the Consultant.
- Past experience on IEUA projects.

C. INTERVIEWS

Interviews may be scheduled with some or all of the Consultants who submit a proposal. Each Consultant shall be ranked based on the interview and an evaluation of the before mentioned criteria. Following the ranking of the proposals received by IEUA, the fee envelope for the top ranked Consultant will be opened. The top ranked Consultant and IEUA will then negotiate the terms of the Contract. IEUA's Board of Directors shall approve the final selection.

D. NOTIFICATION OF UNSUCCESSFUL CONSULTANTS

Unsuccessful potential Consultants shall be notified as soon as possible by IEUA following determination at whatever point in the selection process such determination is made.

E. NEGOTIATION OF CONTRACT

After selection of a Consultant, IEUA and the Consultant shall negotiate the contract under which the work shall be performed. All items submitted in the Consultant's Proposal shall be subject to negotiation.

F. CONFLICT OF INTEREST INFORMATION

Information on possible conflicts of interest shall be provided in the Proposal. Such information shall be taken into account in making a decision on the selection of the Consultant to perform the work.

G. PUBLIC RECORDS POLICY

Responses to this Request for Proposal (RFP) and the documents constituting any Contract entered into thereafter becomes the exclusive property of IEUA and shall be subject to the California Public Records Act (Government Code Section 6250 et seq.). IEUA's use and disclosure of its records are governed by this Act.

Those elements in each Proposal which Consultant considers to be trade secrets, as that term is defined in Civil Code Section 3426.1(d), or otherwise exempt by law from disclosure, should be prominently marked as "TRADE SECRET", "CONFIDENTIAL", or "PROPRIETARY", by Consultant. IEUA will use its best efforts to inform Consultant of any request for disclosures of any such document. IEUA, shall not in any way, be liable or responsible for the disclosure of any such records including, without limitation, those so marked if disclosure is deemed to be required by law or by an order of the Court.

In the event of litigation concerning disclosure of information the Consultant considers exempt from disclosure, IEUA will act as a stakeholder only, holding the information until otherwise ordered by a court or other legal process. If IEUA is required to defend an action arising out of a Public Records Act requests, for any of the contents of a Consultant's proposal marked "Trade Secret", "Confidential", or "Proprietary", Consultant shall defend and indemnify IEUA from all liability, damages, costs, and expenses, including attorneys' fees, in any action or proceeding arising under the Public Records Act.

To insure confidentiality, Consultants are instructed to enclose all "Trade Secret", "Confidential", or "Proprietary", data in separate, labeled, sealed envelopes, which are then included with the Bid/Proposal documents. Because the Bid/Proposal documents are available for review by any person following the Bid/Proposal opening, and during the review period, and after an award of a contract resulting from an Invitation to Bid/Request for Proposal, IEUA shall not in any way be held responsible for disclosure of any "Trade Secret", "Confidential", or "Proprietary" documents that are <u>not</u> contained in labeled envelopes.

13. AVAILABLE REFERENCE MATERIAL

The following are a list of available reference materials:

- 1. Past design drawings
- 2. IEUA GIS database, which includes street centerlines, IEUA facilities, land use, parcel maps, etc.

These and any other existing documentation will be available for download by the successful Consultant via IEUA FTP site upon request.

14. ATTACHMENTS

The following attachments are included in the RFP:

Attachment "A" – Vicinity Map

Attachment "B" – Project Schedule

Attachment "C" – Sample of Standard Contract

Attachment "D" - Example Consulting Services Invoice Summary

Attachment "E" - Exception Form

Attachment "F" - Workers' Compensation Insurance Certificate

Attachment "G" – Consultant Identification and Ownership Information

Attachment "H" - Non-Collusion Affidavit

Attachment "I" – Business Ownership Information

Attachment "J" - Business Case Evaluation Form

ATTACHMENT A

VICINITY MAP

Vicinity Map



RP-5 Solids Handling Facility 16090 Mountain Ave Chino, CA 91710

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ATTACHMENT B

PROJECT SCHEDULE

ATTACHMENT B

PROJECT SCHEDULE

| Estimated Completion Date | Action/Milestone |
|----------------------------------|---|
| 3/26/2020 | RFP Release |
| 4/02/2020 | Preproposal Briefing - Job Walk |
| 4/23/2020 | Proposal Due Date |
| 6/10/2020 | Engineering/Ops Committee Presentation |
| 6/17/2020 | Consultant Contract Award |
| 6/29/2020 | Project Kickoff Meeting/Notice to Proceed |
| 10/30/2020 | Draft Evaluation Report Review Meeting |
| 11/15/2020 | Final Evaluation Report Submittal |

ATTACHMENT C

SAMPLE OF STANDARD CONTRACT

SAMPLE OF STANDARD CONTRACT



CONTRACT NUMBER: 4600000XXX FOR

| DESIGN O | F(|) |
|--|--|---|
| of, 201X, by and I Municipal Water District, o Bernardino under and by virtu referred to as "IEUA"), and (hereinafter referred to as " | ntract"), is made and entered between the Inland Empire organized and existing in the of the laws of the State of Canada (and the state of Canada (and the state), of the state of Canada (and the state), and the state of the | Utilities Agency, a ne County of San alifornia (hereinafter (XX and, California neering services to |
| NOW, THEREFORE, in consect forth herein, the parties a | sideration of the mutual promi gree as follows: | ses and obligations |
| | IGNMENT: All technical dire designated Project Manager | |
| Project Manager: Address: | 6075 Kimball Avenue, Bldg Chino, California 91708 | . B |
| Telephone: Facsimile: Email: | (909) 993- (909) 993- <u>@ieua.org</u> | |
| | NT: Special inquiries related that hall be referred to the following | |
| Consultant: Address: | | |
| Telephone: Facsmile: Email: | | |

1.

2.

- 3. <u>ORDER OF PRECEDENCE</u>: The documents referenced below represent the Contract Documents. Where any conflicts exist between the General Terms and Conditions, or addenda attached, then the governing order of precedence shall be as follows:
 - A. Amendments to Contract Number 4600000xxx.
 - B. Contract Number 4600000xxx General Terms and Conditions.
 - C. Consultant's letter proposals dated xxxxxxxxxxxxxx

Consultant shall deliver the following:

NOTE: Consultant shall advise IEUA within two (2) weeks of any changes to the written Scope of Work/Schedule based upon discussions from the Design Review Meetings. Any changes must be made in writing by an Amendment to the Contract. Work initiated without written approval, shall be at Consultant's own risk, and shall not be reimbursed by IEUA.

- 5. <u>TERM</u>: The term of this Contract shall extend from the date of the Notice to Proceed, and terminate upon acceptance of the designed recycled water pipeline construction by IEUA's Board of Directors, unless agreed to by both parties, reduced to writing, and amended to this Contract.
- 6. <u>COMPENSATION</u>: IEUA shall pay Consultant's properly executed invoice approved by the Project Manager within thirty (30) days following receipt of the invoice. Payment will be withheld for any service which does not meet or exceed IEUA requirements or have proven unacceptable until such service is revised, the invoice resubmitted, and accepted by the Project Manager. Invoices shall include Contract Number 4600000XXX. Mail one original invoice to IEUA's Accounts Payable Department, with a copy to the Project Manager.

IEUA may at any time make changes to the Work including additions, reductions, and changes to any or all of the Work, as directed in writing by IEUA. Such changes shall be made by an Amendment to the Contract. The NOT-TO-EXCEED Amount and Work Schedule shall be equitably adjusted, if required, to account for such changes and shall be set forth in the Amendment.

In compensation for the work represented by this Contract, IEUA shall pay Consultant's in accordance with the attached fee schedules, which are both attached hereto and made a part hereof, up to a combined maximum total of **\$XXXXXX** for all services provided. Payment shall be made only after review and acceptance of the work by IEUA's Project Manager.

7. <u>CONTROL OF THE WORK</u>: Consultant shall perform the Work in compliance with the work schedule. If performance of the Work falls behind schedule, the Consultant shall accelerate the performance of the Work to comply with the work schedules directed by the Project Manager. If the nature of the Work is such that Consultant is unable to accelerate the Work, Consultant shall promptly notify the Project Manager of the delay, the causes of the delay, and submit a proposed revised work schedule.

8. FITNESS FOR DUTY:

- A. Fitness: Consultant and its Subcontractor personnel on the Jobsite:
 - 1. shall report for work in a manner fit to do their job;
 - 2. shall not be under the influence of or in possession of any alcoholic beverages or of any controlled substance (except a controlled substance as prescribed by a physician so long as the performance or safety of the Work is not affected thereby); and
 - shall not have been convicted of any serious criminal offense which, by its nature, may have a discernible adverse impact on the business or reputation of IEUA.
- B. Inspection: Searches by IEUA authorized personnel may be made of lockers, storage areas, vehicles, persons or personal effects on IEUA-owned, or leased property at various times without prior announcement. To the extent necessary, IEUA may also coordinate with local law enforcement to conduct a search of persons or personal effects to detect evidence of unlawful drug use or the presence of pyrotechnics, explosives, firearms, weapons, or facsimiles thereof, alcoholic beverages and illegal drugs ("Prohibited Items"). Prohibited Items must not be brought onto, or kept on, IEUA property.
- C. <u>Compliance</u>: Consultant shall advise all personnel and associated third parties of the requirements of this Contract ("Fitness for Duty Requirements") before they enter on the Jobsite and shall immediately remove from the Jobsite any employee determined to be in violation of these requirements. Consultant shall impose these requirements on its Subcontractors. IEUA may cancel the Contract if Consultant violates these Fitness for Duty Requirements.
- 9. <u>INSURANCE</u>: During the term of this Contract, the Consultant shall maintain at Consultant's sole expense, the following insurance.
 - A. Minimum Scope of Insurance:

- 1. General Liability: \$1,000,000 combined single limit per occurrence for bodily injury, personal injury and property damage. Coverage shall be at least as broad as Insurance Services Office form number GL 0001-87 covering Comprehensive General Liability. If Commercial General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to this Project/location, or the general aggregate limit shall be twice the required occurrence limit.
- 2. Automobile Liability: \$1,000,000 combined single limit per accident for bodily injury and property damage. Coverage shall be at least as broad as Insurance Services Office form number CA 00 01 87, covering Automobile Liability, including "any auto."
- Workers' Compensation and Employers Liability: Workers' compensation limits as required by the Labor Code of the State of California and employers Liability limits of \$1,000,000 per accident.
- 4. Professional Liability insurance in the amount of \$1,000,000 per claim.
- B. <u>Deductibles and Self-Insured Retention</u>: Any deductibles or self-insured retention must be declared to and approved by IEUA. At the option of IEUA, either: the insurer shall reduce or eliminate such deductibles or self-insured retention as respects IEUA, its officers, officials, employees and volunteers; or the Consultant shall procure a bond guaranteeing payment of losses and related investigations, claims administration and defense expenses.
- C. <u>Other Insurance Provisions</u>: The policies are to <u>contain</u>, or be <u>endorsed</u> <u>to contain</u>, the following provisions:
 - 1. General Liability and Automobile Liability Coverage
 - a. IEUA, its officers, officials, employees, volunteers, property owners and any engineers under contract to IEUA are to be covered as additional insureds, endorsements GL 20 11 07 66, CG2010 1185 and/or CA 20 01 (Ed. 0178), as respects: liability arising out of negligent activities performed by or on behalf of the Consultant, products and completed operations of the Consultant, premises owned, occupied or used by the Consultant, or automobiles owned, leased, hired or borrowed by the Consultant. The coverage shall contain

- no special limitations on the scope of protection afforded to IEUA, its officers, officials, employees or volunteers.
- b. The Consultant's insurance coverage shall be primary insurance as respects IEUA, its officer, officials, employees and volunteers. Any insurance or self-insurance maintained by IEUA, its officers, officials, employees, or volunteers shall be excess of the Consultant's insurance and shall not contribute with it.
- c. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to IEUA, its officers, officials, employees or volunteers.
- d. The Consultant's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
- e. The Consultant may satisfy the limit requirements in a single policy or multiple policies. Any Such additional policies written as excess insurance shall not provide any less coverage than that provided by the first or primary policy.
- 2. Workers' Compensation and Employers Liability Coverage

The insurer shall agree to waive all rights of subrogation against IEUA, its officers, officials, employees and volunteers for losses arising from work performed by the Consultant for IEUA.

3. All Coverages

Prior to cancellation of any policy required herein, the policies shall be endorsed to state, 30 days advanced cancellation notice will be mailed to IEUA, except if policies cancelled for non-payment of premium, then 10 days advance notice will be mailed.

- D. <u>Acceptability of Insurers</u>: With the exception of Professional Liability Insurance, all insurance is to be placed with insurers with a Best's rating of no less than A:VII, and who are admitted insurers in the State of California. Professional Liability Insurance is to be placed with insurers with a Best's rating of no less than B:VII, and who are admitted insurers in the State of California.
- E. <u>Verification of Coverage</u>: Consultant shall furnish IEUA with certificates of insurance and with original endorsements effecting coverage required by IEUA for themselves and all subcontractors prior to commencing work or allowing any subcontractor to commence work under any subcontract. The certificates and endorsements for each insurance

policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. All certificates and endorsements are to be approved by IEUA before work commences. IEUA reserves the right to require complete, certified copies of all required insurance policies, at any time.

F. <u>Submittal of Certificates</u>: Consultant shall submit all required certificates and endorsements to the following:

Inland Empire Utilities IEUA Attn: Warren Green, Manager Safety & Risk P.O. Box 9020 Chino Hills, California91709

10. <u>LEGAL RELATIONS AND RESPONSIBILITIES</u>

- A. <u>Professional Responsibility</u>: The Consultant shall be responsible, to the level of competency presently maintained by other practicing professionals performing the same or similar type of work.
- B. <u>Status of Consultant</u>: The Consultant is retained as an independent Consultant only, for the sole purpose of rendering the services described herein, and is not an employee of IEUA.
- C. Observing Laws and Ordinances: Consistent with the standard of skill and care set forth in 10.A, Professional Responsibility, the Consultant shall keep itself fully informed of all relevant existing state and federal laws and all relevant county and city ordinances and regulations which pertain to structural engineering services or tasks performed under this Contract, and of all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the same. The Consultant shall at all times observe and comply with all such existing laws, ordinances, regulations, orders and decrees, and shall to the extent of Consultant's negligence, protect and indemnify, as required herein, IEUA, its officers, employees and agents against any claim or liability arising from or based on the violation of any such law, ordinance, regulation, order or decree, whether by the Consultant or its employees.
- D. <u>Subcontract Services</u>: Any subcontracts for the performance of any services under this Contract shall be subject to the written approval of the Project Manager.
- E. <u>Grant Funded Projects:</u> This project will not be grant-funded.

- F. <u>Conflict of Interest</u>: No official of IEUA who is authorized in such capacity and on behalf of IEUA to negotiate, make, accept or approve, or to take part in negotiating, making, accepting or approving this Contract, or any subcontract relating to services or tasks to be performed pursuant to this Contract, shall become directly or indirectly personally interested in this Contract.
- G. Equal Opportunity and Unlawful Discrimination: During the performance of this Contract, the Consultant shall not unlawfully discriminate against any employee or employment applicant because of race, color, religion, sex, age, marital status, ancestry, physical or mental disability, sexual orientation, veteran status or national origin. IEUA is committed to creating and maintaining an environment free from harassment and To accomplish these goals IEUA has established discrimination. procedures regarding the implementation and enforcement of IEUA's Harassment Prohibition and Equal Employment Opportunity commitments. Please refer to IEUA Policies A-29 (Equal Employment Opportunity) and A-30 Harassment Prohibition for detailed information or contact IEUA's Human Resources Administrator. A copy of either of these Policies can be obtained by contacting the Project Manager for your respective Contract. Please advise any of your staff that believes they might have been harassed or discriminated against while on IEUA property, to report said possible incident to either the Project Manager, or IEUA's Human Resources Administrator. Please be assured that any possible infraction will be thoroughly investigated by IEUA.
- H. Non-Conforming Work and Warranty: Consistent with the standard of skill and care set forth in Section 10.A, Professional Responsibility, Consultant represents and warrants that the Work and Documentation shall be adequate to serve the purposes described in the Contract. If the Project Manager rejects all or any part of the Work or Documentation as unacceptable, and agreement to correct such Work or Documentation cannot be reached without modification to the Contract, Consultant shall notify the Project Manager, in writing, detailing the dispute and reason for Consultant's position. Any dispute that cannot be resolved between the Project Manager and the Consultant, shall be resolved in accordance with the Dispute Section of this Contract.

I. <u>Disputes</u>:

 All disputes arising out of or in relation to this Contract shall be determined in accordance with this section. The Consultant shall pursue the work to completion in accordance with the instruction of IEUA's Project Manager notwithstanding the existence of dispute. By entering into this Contract, both parties are obligated, and hereby agree, to submit all disputes arising under or relating to the Contract, which remain unresolved after the exhaustion of the procedures provided herein, to independent arbitration. Except as otherwise provided herein, arbitration shall be conducted under California Code of Civil Procedure Sections 1280, et. seq, or their successor.

- 2. Any and all disputes during the pendency of the work shall be subject to resolution by IEUA Project Manager and the Consultant shall comply, pursuant to IEUA Project Manager in-If the Consultant is not satisfied with any such structions. resolution by IEUA Project Manager, they may file a written protest with IEUA Project Manager within seven (7) calendar days after receiving written notice of IEUA's decision. Failure by Consultant to file a written protest within seven (7) calendar days shall constitute waiver of protest, and acceptance of IEUA Project Manager's resolution. IEUA's Project Manager shall submit the Consultant's written protests to the General Manager, together with a copy of IEUA Project Manager's written decision, for his or her consideration within seven (7) calendar days after receipt of said protest(s). The General Manager shall make his or her determination with respect to each protest filed with IEUA Project Manager within ten (10) calendar days after receipt of said protest(s). If Consultant is not satisfied with any such resolution by the General Manager, they may file a written request for arbitration with the Project Manager within seven (7) calendar days after receiving written notice of the General Manager's decision.
- 3. In the event of arbitration, the parties hereto agree that there shall be a single neutral Arbitrator who shall be selected in the following manner:
 - a. The Demand for Arbitration shall include a list of five names of persons acceptable to the Consultant to be appointed as Arbitrator. IEUA shall determine if any of the names submitted by Consultant are acceptable and, if so, such person will be designated as Arbitrator.
 - b. In the event that none of the names submitted by Consultant are acceptable to IEUA, or if for any reason the Arbitrator selected in Step (a) is unable to serve, IEUA shall submit to Consultant a list of five names of persons acceptable to IEUA for appointment as Arbitrator. The Consultant shall, in turn, have seven (7) calendar days in which to determine if one such person is acceptable.

- c. If after Steps (a) and (b), the parties are unable to mutually agree upon a neutral Arbitrator, the matter of selection of an Arbitrator shall be submitted to the San Bernardino County Superior Court pursuant to Code of Civil Procedure Section 1281.6, or its successor. The costs of arbitration, including but not limited to reasonable attorneys' fees, shall be recoverable by the party prevailing in the arbitration. If this arbitration is appealed to a court pursuant to the procedure under California Code of Civil Procedure Section 1294, et. seq., or their successor, the costs of arbitration shall also include court costs associated with such appeals, including but not limited to reasonable attorneys' fees which shall be recoverable by the prevailing party.
- 4. Joinder in Mediation/Arbitration: IEUA may join the Consultant in mediation or arbitration commenced by a contractor on the Project pursuant to Public Contracts Code Sections 20104 et seq. Such joinder shall be initiated by written notice from IEUA's representative to the Consultant.
- 11. <u>INDEMNIFICATION:</u> Consultant shall indemnify IEUA, its directors, employees and assigns, and shall defend and hold them harmless from all liabilities, demands, actions, claims, losses and expenses, including reasonable attorneys' fees, which arise out of or are related to the negligence, recklessness or willful misconduct of the Consultant, its directors, employees, agents and assigns, in the performance of work under this contract.
- 12. OWNERSHIP OF MATERIALS AND DOCUMENTS/CONFIDENTIALITY: IEUA retains ownership of any and all partial or complete reports, drawings, plans, notes, computations, lists, and/or other materials, documents, information, or data prepared by the Consultant and/or the Consultant's subcontractor(s) pertaining to this Contract. Said materials and documents are confidential and shall be available to IEUA from the moment of their preparation, and the Consultant shall deliver same to IEUA whenever requested to do so by the Project Manager and/or IEUA. The Consultant agrees that same shall not be made available to any individual or organization, private or public, without the prior written consent of IEUA.

Said materials and documents shall not be changed or used for purposes other than those set forth in the Contract without the prior written approval of Consultant. If IEUA reuses the materials and documents without Consultant's prior written consent, changes or uses the materials and documents other than as intended hereunder, IEUA shall do so at its sole risk and discretion, and Consultant shall not be liable for any claims and/or damages resulting from use

or connected with the release of or any third party's use of the reused materials or documents.

13. <u>TITLE AND RISK OF LOSS</u>:

- A. <u>Documentation:</u> Title to the Documentation shall pass, subject to payment therefore, to IEUA when prepared; however, a copy may be retained by Consultant for its records and internal use. Consultant shall retain such Documentation in a controlled access file, and shall not reveal, display or disclose the contents of the Documentation to others without the prior written authorization of IEUA or for the performance of Work related to the project.
- B. <u>Material:</u> Title to all Material, field or research equipment, subject to payment therefore, and laboratory models, procured or fabricated under the Contract shall pass to IEUA when procured or fabricated, and such title shall be free and clear of any and all encumbrances. Consultant shall have risk of loss of any Material or IEUA-owned equipment of which it has custody.
- C. <u>Disposition:</u> Consultant shall dispose of items to which IEUA has title as directed in writing by the Agreement Administrator and/or IEUA.

14. PROPRIETARY RIGHTS:

- A. <u>Rights and Ownership:</u> IEUA's rights to inventions, discoveries, trade secrets, patents, copyrights, and other intellectual property, including the Information and Documentation, and revisions thereto (hereinafter collectively referred to as "Proprietary Rights"), used or developed by Consultant in the performance of the Work, shall be governed by the following provisions:
 - 1. Proprietary Rights conceived, developed, or reduced to practice by Consultant in the performance of the Work shall be the property of IEUA, and Consultant shall cooperate with all appropriate requests to assign and transfer same to IEUA.
 - 2. If Proprietary Rights conceived, developed, or reduced to practice by Consultant prior to the performance of the Work are used in and become integral with the Work or Documentation, or are necessary for IEUA to have complete enjoyment of the Work or Documentation, Consultant shall grant to IEUA a non-exclusive, irrevocable, royalty-free license, as may be required by IEUA for the complete enjoyment of the Work and Documentation, including the right to reproduce, correct, repair, replace, maintain, translate, publish, use, modify, copy or dispose of any or all of the Work and Documentation and grant

- sublicenses to others with respect to the Work and Documentation.
- 3. If the Work or Documentation includes the Proprietary Rights of others, Consultant shall procure, at no additional cost to IEUA, all necessary licenses regarding such Proprietary Rights so as to allow IEUA the complete enjoyment of the Work and Documentation, including the right to reproduce, correct, repair, replace, maintain, translate, publish, use, modify, copy or dispose of any or all of the Work and Documentation and grant sublicenses to others with respect to the Work and Documentation. All such licenses shall be in writing and shall be irrevocable and royalty-free to IEUA.
- 4. Notwithstanding anything to the contrary herein, Consultant's Work and Documentation shall not be changed or used for purposes other than those set forth in the Contract, without the prior written approval of the Consultant. If IEUA reuses the Work or Documentation without Consultant's prior written consent, changes or uses the Work or Documentation other than as intended hereunder, IEUA shall do so at its sole risk and discretion, and Consultant shall not be liable for any claims and or damages resulting from use or connected with the release of or any third party's use of the reused materials or documents.
- B. <u>No Additional Compensation:</u> Nothing Set forth in this Contract shall be deemed to require payment by IEUA to Consultant of any compensation specifically for the assignments and assurances required hereby, other than the payment of expenses as may be actually incurred by Consultant in complying with this Contract.
- 15. <u>INFRINGEMENT:</u> Consultant represents and warrants that the Work and Documentation shall be free of any claim of trade secret, trade mark, trade name, copyright, or patent infringement or other violations of any Proprietary Rights of any person.

Consultant shall defend, indemnify and hold harmless, IEUA, its officers, directors, agents, employees, successors, assigns, servants, and volunteers free and harmless from any and all liability, damages, losses, claims, demands, actions, causes of action, and costs including reasonable attorney's fees and expenses to the extent of Consultant's negligence for any claim that use of the Work or Documentation infringes upon any trade secret, trade mark, trade name, copyright, patent, or other Proprietary Rights.

Consultant shall, at its expense and at IEUA's option, refund any amount paid by IEUA under the Contract, or exert its best efforts to procure for IEUA the

right to use the Work and Documentation, to replace or modify the Work and Documentation as approved by IEUA so as to obviate any such claim of infringement, or to put up a satisfactory bond to permit IEUA's continued use of the Work and Documentation.

16. <u>NOTICES</u>: Any notice may be served upon either party by delivering it in person, or by depositing it in a United States Mail deposit box with the postage thereon fully prepaid, and addressed to the party at the address set forth below:

IEUA: Warren Green

Manager of Contracts and Procurement

Inland Empire Utilities IEUA 6075 Kimball Avenue, Building A

Chino, California 91708

Consultant:

Any notice given hereunder shall be deemed effective in the case of personal delivery, upon receipt thereof, or, in the case of mailing, at the moment of deposit in the course of transmission with the United States Postal Service.

- 17. <u>SUCCESSORS AND ASSIGNS</u>: All of the terms, conditions and provisions of this Contract shall inure to the benefit of and be binding upon IEUA, the Consultant, and their respective successors and assigns. Notwithstanding the foregoing, no assignment of the duties or benefits of the Consultant under this Contract may be assigned, transferred or otherwise disposed of without the prior written consent of IEUA; and any such purported or attempted assignment, transfer or disposal without the prior written consent of IEUA shall be null, void and of no legal effect whatsoever.
- 18. PUBLIC RECORDS POLICY: Information made available to IEUA may be subject to the California Public Records Act (Government Code Section 6250 et seq.) IEUA's use and disclosure of its records are governed by this Act. IEUA shall use its best efforts to notify Consultant of any requests for disclosure of any documents pertaining to Consultant.

In the event of litigation concerning disclosure of information Consultant considers exempt from disclosure; (e.g., Trade Secret, Confidential, or Proprietary) IEUA shall act as a stakeholder only, holding the information until otherwise ordered by a court or other legal process. If IEUA is required to defend an action arising out of a Public Records Act request for any of the information Consultant has marked "Confidential," "Proprietary," or "Trade Secret, " Consultant shall defend and indemnify IEUA from all liability,

damages, costs, and expenses, including attorneys' fees, in any action or proceeding arising under the Public Records Act.

- 19. RIGHT TO AUDIT: IEUA reserves the right to review and/or audit all Consultants' records related to the Work. The option to review and/or audit may be exercised during the term of the Contract, upon termination, upon completion of the Contract, or at any time thereafter up to twelve (12) months after final payment has been made to Consultant. The Consultant shall make all records and related documentation available within three (3) working days after said records are requested by IEUA.
- 20. <u>INTEGRATION</u>: The Contract Documents represent the entire Contract of IEUA and the Consultant as to those matters contained herein. No prior oral or written understanding shall be of any force or effect with respect to those matters covered by the Contract Documents. This Contract may not be modified, altered or amended except by written mutual agreement by IEUA and the Consultant.
- 21. <u>GOVERNING LAW</u>: This Contract is to be governed by and constructed in accordance with the laws of the State of California.
- 22. <u>TERMINATION FOR CONVENIENCE</u>: IEUA reserves and has the right to immediately suspend, cancel or terminate this Contract at any time upon written notice to the Consultant. In the event of such termination, IEUA shall pay Consultant for all authorized and Consultant-invoiced services up to the date of such termination.
- 23. <u>FORCE MAJEURE</u>: Neither party shall hold the other responsible for the effects of acts occurring beyond their control; e.g., war, riots, strikes, natural disasters, etcetera.
- 24. <u>NOTICE TO PROCEED</u>: No services shall be performed or furnished under this Contract unless and until this document has been properly signed by all responsible parties and a Notice to Proceed order has been issued to the Consultant.

IN WITNESS WHEREOF, the parties hereto have caused the Contract to be entered as of the day and year written above.

| Shivaji Deshmukh General Manager | (Date) | [Signatory] [Title] | (Date) |
|-------------------------------------|--------|------------------------|--------|

RP-5 Solids Handling Facility Future Uses Evaluation Project No. EN20034.03

ATTACHMENT D SAMPLE CONSULTANT SERVICE INVOICE



INLAND EMPIRE UTILITIES AGENCY CONSULTING SERVICES INVOICE

| Consultant: | | · · · · · · · · · · · · · · · · · · · | | Pay Estimate No | : | Contract Date | : | Invoice Date: | | |
|-------------|---------------|---------------------------------------|---|-----------------|-----------------------|------------------|---------------------------------------|------------------|------------------|-------------------|
| Address: | | | Contract No.: | | IEUA Project Manager: | | This Period: From: | | | |
| | | | | | | | _ | | To: | |
| Contract Na | me: | | | • | | • | | Invoice No. / Co | nsult Ref No. | |
| ORIGINAL (| CONTRAC | T: | | | | | | | | |
| | | | | Original | Total Thi | e Deriod | Total | to Date | Progress | Remaining |
| | SAP Line | | | Contract Value | From: | | From: | | _ | _ |
| PO No. | Item | WBS Element No. | Item Description | Contract value | To: | | To: | | to Date | Contract Value |
| | No. | | | Amount (\$) | % Complete | Amount (\$) | % Complete | Amount (\$) | % Complete | Amount (\$) |
| | | | | \$0.00 | 0% | \$0.00 | #DIV/0! | \$0.00 | #DIV/0! | \$0.00 |
| | | | | \$0.00 | 0% | \$0.00 | #DIV/0! | \$0.00 | #DIV/0! | \$0.00 |
| | | | | \$0.00 | 0% | \$0.00 | #DIV/0! | \$0.00 | #DIV/0! | \$0.00 |
| | | | | 40.00 | | 40.00 | mDIVIO: | 40.00 | #51170: | |
| | | | Subtotal Original Contract: | \$0.00 | | \$0.00 | | \$0.00 | | \$0.0 |
| | | | | | , | | • | | , | |
| CONTRACT | AMENDM | ENTS: | | | | | | | | |
| | SAP | | | Amended | Total Thi | s Period | Total | to Date | Progress | Remaining |
| PO No. | Line | WBS Element No. | Amendment Description | Contract Value | From: | | From: | | to | Contract |
| 10110. | Item | WES Element No. | American Description | | To: | | To: | | Date | Value |
| | No. | | | Amount (\$) | % Complete | Amount (\$) | % Complete | Amount (\$) | % Complete | Amount (\$) |
| | | | | | | \$0.00 | | \$0.00 | 0% | 0% |
| | | | | | | \$0.00 | | \$0.00 | 0% | 0% |
| | | | | | | \$0.00 | | \$0.00 | 0% | 0% |
| | | | | | | \$0.00 | | \$0.00 | 0% | 0% |
| | | | Subtotal Contract Amendments: | \$0.00 | | \$0.00 | | \$0.00 | | \$0.0 |
| | | | Total Contract with Amendments: | \$0.00 | | \$0.00 | | \$0.00 | | \$0.0 |
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| | | | PAYMENT SUMMARY FOR THIS PERIOD: | From: | | PRIOR PAYN | IENT SUMMARY: | From: | | |
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| | | | Amount Earned Original Contract Amount Earned Amendments | | \$0.00 \$0.00 | l . | d Original Contract med Amendments | | \$0.00 \$0.00 | |
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| | | | | Total | Contract | | Contract Start D | ate: | | |
| | | | | | | | Contract Durat | ion: | | |
| | | | | | | Cont | tract Completion D | ate: 1/0/1900 | | |
| | | | Total Original Contra | I | \$0.0 | | ized Time Extens | | | |
| | | | Total Contract Amendmen | | \$0.0 | | ised Completion D | ate: 1/0/1900 | | |
| | | | Total Adjusted Contra | I | \$0.0 | 1 | | | | |
| | | | Total Payments to Da | | \$0.0 | 1 | | MPLETION SUMI | MARY: | |
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| | | | Payment this period | od | \$0. | 00 Cor | ntract Work Compl | ete: #DIV/0! | | |
| | | | Balance of Contra | ct | \$0. | 00 | | | | |
| Consultant | Approval | • | | | | | | | | _ |
| Consumant | ppi ovai | | | | | | | | | |
| Title: | | | Signature: | | _ | Date: | | | | |
| Inland Emp | oire Utilitie | es Agency Approvals: | | | | | | | | |
| | | | | Date | | aniatast Occ. 11 | leu: | | _ | ata: |
| Project | t Engineer: | | | Date: | | | gr: | | | ate: |
| Supervising | Engineer | | | Date: | | General Manag | er. | | п | ate: |

ATTACHMENT E **EXCEPTION FORM**

EXCEPTION FORM

Should your firm take exception to <u>ANY</u> of the terms and conditions or other contents provided in the Request for Proposal, submit the following form with your proposal. If no exception(s) are taken, enter "NONE" for the first item. Make additional copies of this form if necessary.

| Page Number: | Section Title: | |
|-----------------------|---------------------------------|--|
| Paragraph Number: _ | Exception Taken: | |
| | | |
| | | |
| | | |
| Page Number: | Section Title: | |
| Paragraph Number: _ | Exception Taken: | |
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| | Section Title: Exception Taken: | |
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| | | |
| Page Number: | Section Title: | |
| Paragraph Number: _ | Exception Taken: | |
| | | |
| | | |

ATTACHMENT FWORKERS' COMPENSATION CERTIFICATE

WORKERS' COMPENSATION CERTIFICATE

The Consultant shall execute this form to acknowledge and comply with the requirements of California Labor Code, Sections 1860 and 1861:

I am aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and on behalf of my Consultant, I will comply with such provisions before commencing the performance of the work of any contract entered into.

| Signature | Company Name | | | | |
|--------------|-------------------------|--|--|--|--|
| | | | | | |
| Printed Name | Business License Number | | | | |
| | | | | | |
| Title | Date | | | | |

ATTACHMENT G CONSULTANT IDENTIFICATION

CONSULTANT IDENTIFICATION

| 1. | Legal name of Consultant: |
|--------|---|
| 2. | Street Address: |
| 3. | Mailing Address: |
| 4. | Business Telephone: |
| 5. | Facsimile Telephone: |
| 6. | Email Address: |
| 7. | Type of Business: |
| | □ Sole Proprietor □ Partnership □ Corporation Other: |
| - | f corporation, indicate State where incorporated: |
| 8. | Business License number issued by the City where the Consultant's principal place of business is located. |
| 1 | Number: Issuing City: |
| 9. | Federal Tax Identification Number: |
| 10 | . Consultant's Project Manager: |
| | |

ATTACHMENT HNON-COLLUSION AFFIDAVIT

NON-COLLUSION AFFIDAVIT

| State of California) | |
|---|--|
| County of) | SS. |
| , being | first duly sworn, deposes and says |
| the foregoing proposal that the proposal is nundisclosed person, partnership, company, as proposal is genuine and not collusive or sha solicited any other Bidder to put in a false or scolluded, conspired, connived, or agreed wit proposal, or that anyone shall refrain from b directly or indirectly, sought by agreement, conthe proposal fee or the Bidder or any other element of the proposal fee, or of that of any of the public body awarding the Contract of anyon statements contained in the proposal are true or indirectly, submitted his or her proposal function, or divulged information or data relations. | ("Bidder") the party making of made in the interest of, or on behalf of, any ssociation, organization, or corporation; that the m; that the Bidder has not directly or indirectly sham proposal, and has not directly or indirectly h any Bidder or anyone else to put in a sham idding; that the Bidder has not in any manner, ormunication, or conference with anyone to fix Bidder, or to fix any overhead, profit, or cost ther Bidder, or to secure any advantage against one interested in the proposed Contract; that all e; and, further, that the Bidder has not, directly ee or any breakdown thereof, or the contents we thereto, or paid, and will not pay, any fee to ciation, organization, proposal depository, or to collusive or sham proposal. |
| Signature | Company Name |
| Printed Name | Consultant License Number |
| Title | Date |

RP-5 Solids Handling Facility Future Uses Evaluation Project No. EN20034.03

Request for Proposals March 26, 2020

ATTACHMENT IBUSINESS OWNERSHIP INFORMATION

BUSINESS OWNERSHIP INFORMATION

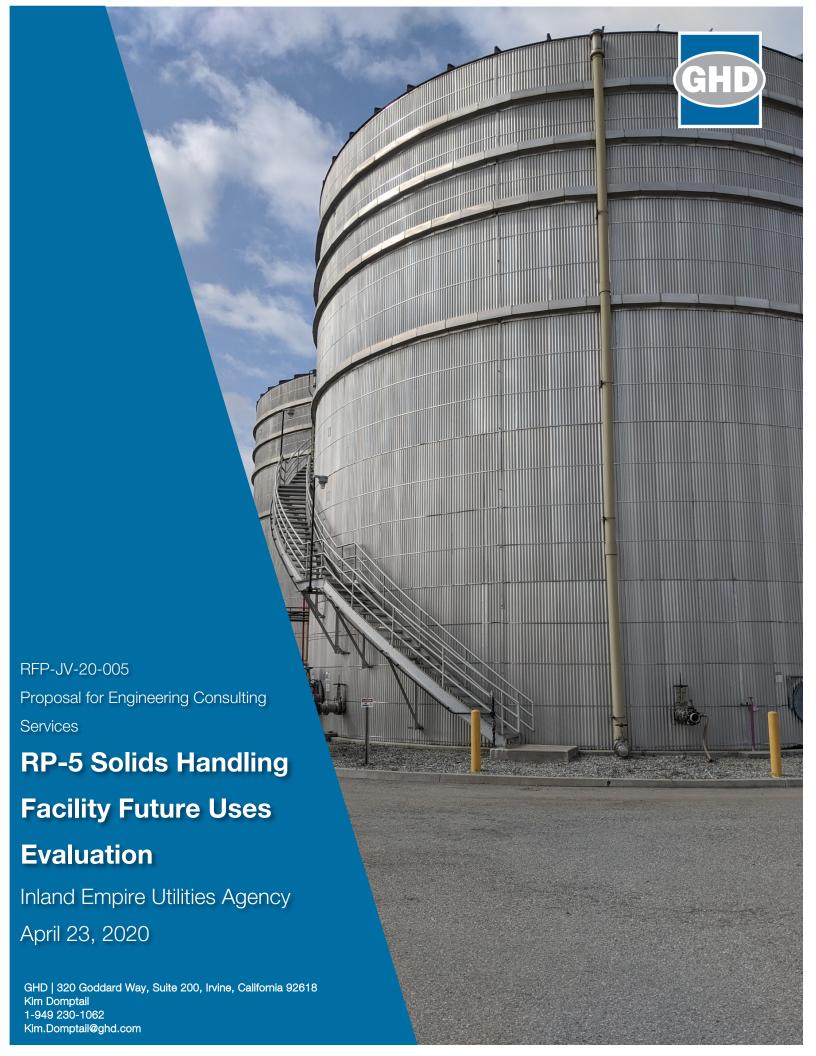
| Business | | | • | Information | | | |
|----------|-------------------|-----------|-------------------------|---------------|-------------------------|-----------------|-------------|
| Are | you | a | WMDVBE* | certified | business? | C Yes | C No |
| *(W | omen, Minority, I | Disabled. | Veteran Business Enterp | rise) | | | |
| Cert | ification mus | st be r | eceived from Calif | ornia Public | Utilities Commis | sion clearing H | House. Call |
| Toll | Free: 800-35 | 9-799 | 8 or 415-928-6892 | for additiona | l information. Plea | ase check those | that apply: |
| | Women-Ow | ned B | usiness | | African-America | n-Owned Busin | ness |
| | Disabled-Ov | wned l | Business | | Veteran-Owned | Business | |
| | Native-Ame | erican- | Owned Business | | Hispanic-Owned | Business | |
| ☐ Bus | Caucasian-A | Americ | an-Owned | | Underrepresented | d Asian-Owned | Business |

All firms need to be registered with IEUA. Please logon to www.ieua.org and under the heading of Procurements, click on the registration tab. This will allow your firm to access solicitations for the commodities or services that apply. Additionally, other agencies have access to the vendor information in the Bid Net system which will increase your access for available solicitations.

ATTACHMENT JBUSINESS CASE EVALUATION MANUAL

| The IEUA business case evaluation manual and spreadsheet can be found in the link below: |
|--|
| https://ieua.sharefile.com/d-s420c15fccf045e39 |
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Exhibit B





April 23, 2020

Jamal Zughbi, P.E. Inland Empire Utilities Agency P.O. Box 9020 Chino Hills, California 91709

Proposal for Engineering Consulting Services for RF-5 Solids Handling Facility Future Uses Evaluation

Dear Mr. Zughbi and Members of the Selection Panel,

GHD Inc. (GHD) is pleased to submit this proposal to provide Engineering Consulting Services for RP-5 Solids Handling Facility Future Uses Evaluation (RFP-JV-20-005). We understand that IEUA seeks to assess all viable options for the future utilization of the Regional Plant No. 5 (RP-5) Solids Handling Facility (SHF) and the land itself, including maintaining as-is, divesting the equipment and/or the land, new development opportunities for the site, and reviving the organics management operations through leases or partnerships with third-party firms.

GHD's waste management service line is keenly interested in managing this project under the water market, similar to the IEUA Digester 6 and 7 Rehabilitation projects, for the following reasons:

- The City of Rialto (and other pilot facilities) went through similar business case needs that resulted in the conversion
 of the Enertech Biosolids processing plant becoming the Anaergia Rialto Bioenergy Facility, for which GHD was the
 Engineer or Record (EOR) on all demolishment and construction improvements.
- The recent organics diversion regulations (AB1826 and SB1383) are large drivers that could make this property very attractive to the waste industry and therefore to IEUA.
- As leaders in the design, construction, operation, maintenance, and redevelopment of organics management facilities, we have industry relationships with the developers who would potentially be able to reuse this asset and property.

We have a comprehensive understanding of the solid waste landscape in Southern California, through a number of projects including the Lystek Organic Processing project at Goleta Sanitary District, the Waste Management Sun Valley Transfer Station in Los Angeles, and the Rialto Bioenergy Facility which will be the largest food waste anaerobic digestion facility in the country when completed by the end of 2020. Our proposed core team members are local to Southern California, highly experienced in solids handling and management and understand the regulatory drivers behind sustainable waste management initiatives as well the social and market drivers. Furthermore, the IEUA will benefit from GHD's connected global network of waste management and planning specialists with over 25 years of industry experience.

GHD multi-disciplinary team includes a strategic alliance and partnership with Jones Lang LaSalle (JLL). JLL is one of the worldwide leaders in commercial real estate brokerage and property management. Our team's expertise in engineering, organics management facility development, business case evaluation, environmental assessment, permitting, and property and real estate disposals provides IEUA with the most comprehensive and experienced team and resources to perform the work. In addition, to maintain continuity and our high level of service to IEUA, GHD will maintain directorship from Jamal Awad and introduce Kim Domptail to manage the project.

We are committed to meeting IEUA's quality and schedule expectations utilizing the key personnel identified in this proposal. GHD looks forward to expanding our services to IEUA and to participating in the RP-5 SHF Future Uses Evaluation. Should you have any questions regarding this proposal, please contact Kim Domptail at 949-230-1062 or via email at Kim.Domptail@ghd.com.

Sincerely,

Kim Domptail Project Manager Jamal Awad, PhD., P.E. Project Director

amal Awad



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1. Firm Profile

GHD is one of the world's **leading professional services companies**, operating in the global markets of water, energy and resources, transportation, environment, and property and buildings. We provide engineering, environmental, and construction services to public and private sector clients.

Established in 1928 and privately owned by our people, GHD operates across **five continents** and employs 10,000 people in more than 200 offices to deliver projects with **high standards of safety**, **quality**, **and ethics** across the entire asset value chain.

Our network of engineers, planners, scientists, project managers, and designers collaborate to **improve the built**, **economic**, **and social environment of the communities** we serve. In everything we do, we look at projects from a total life cycle perspective.

Driven by a **client service led culture**, we connect the knowledge, skill, and experience of our people with innovative practices, technical capabilities, and robust systems to create **lasting community benefits**. Our commitment to client satisfaction and responsiveness is a cornerstone of our organizational and project management philosophy, which embraces a **flat**, **non-hierarchical structure** in which senior management actively directs and supports our project work and interaction with clients.

In alignment with the global demands of water, energy, and urbanization, our aim is to exceed client expectations and contribute to their success. For more information, visit www.ghd.com.











1.1 Local Experience

GHD prides itself on its history to its commitment and endeavors with strategic partners on projects from successful start to successful finish.

GHD's Long Beach and Irvine offices comprise more than 70 technical and administrative staff and professionals serving all of our market sectors. These professionals will serve as project leads on all assignments covering the subject project. Highlights of the expertise provided by this personnel involve high capital and dynamic milestones associated with ocean water desalination plants; water, wastewater, and waste management site planning, linear infrastructure; hard core process engineering; environmental remediation; construction management (including SWPPP); transportation; and property & buildings. Our Irvine office is supported by over 400 professionals in our 18 California offices; a network of technical staff and engineers that can enhance our project team with specialty services as needed.

Furthermore, our expertise and design hubs throughout North America involved in concurrent projects in the waste management and asset advisory service lines will support the local project team.

Select Recent IEUA Projects Supported by GHD

- RP-1 Digesters 6 & 7 Roof Repairs
- Carbon Canyon Water Recycling Facility – Asset Management and Improvements Pkg III
- Wineville Extension Recycled Water Pipeline
- Format of IEUA "Front End" Contract Documents
- Engineering Design Guidelines
- Reservoir 1158 RCRA Closure

Full list of projects provided in **Section 3**.



1.2 Organics Management Experience

The waste management sector is undergoing a revolution. Regulatory, societal, and economic drivers are transforming organic waste into beneficial resources through innovative technologies. This has resulted in an aggressive expansion of organics management programs and facilities around the globe. In addition, it will further drive infrastructure development to handle the millions of tons of organics created by this revolution.

GHD has been at the forefront of this paradigm shift through the successful delivery of sustainable waste management solutions encompassing waste diversion practices and circular economy principles. Today's communities and businesses are increasingly recycling organic waste due to changing regulations and public desires in support of greenhouse gas and waste reduction goals.

GHD is a leader in the design, construction, operation, maintenance, and redevelopment of organics management facilities.

For this assignment, we will utilize our industry relationships with some of the leading entities in the organic / food waste and energy nexus to identify a potential win for IEUA.

Globally, we have completed over 100 organics management projects. At

the core of our approach is the development and implementation of practical, proven, cost-effective, and tailored organics management programs. Our reputation as an industry leader in the field of solid waste management is built on a portfolio that has successfully delivered many innovative, first-of-their-kind facilities across the globe. Our team of diverse professionals delivers integrated solutions for projects such as anaerobic digestion (AD) facilities, composting, biogas utilization and renewable energy production. We are also a trusted advisor to many

jurisdictions and provide owner's representative services to manage organics projects and programs.

We are technology-neutral and have experience with all feedstock, including source-separated organics (SSO), organics extracted from municipal solid waste (MSW), yard waste, agricultural organics and biosolids. Our recent project experience includes:

- Anaergia Rialto Bioenergy Facility | Rialto, California
- Lystek Organic Material Recovery Center | Fairfield, California
- Lystek Skid Mounted Organics / Biosolids Processing | Goleta, California
- Waste Management Transfer Station (TS) and Material Recovery Facility (MRF) | Sun Valley, California
- Suez Composting Facility in the Saint-Laurent borough | Montréal, Québec
- Suez Montréal East Anaerobic Digestion Facility | Montréal, Québec
- Maple Reinders / Christiaens Group Organic Waste Processing Facility Tunnel Composting | Guelph, Ontario, Canada
- Orgaworld / Renewi Organics Processing Facility Tunnel Composting | London, Ontario, Canada
- Disco Road Organics Processing Facility | Toronto, Ontario, Canada
- Dufferin Organics Processing Facility Expansion | Toronto, Ontario, Canada

For more details on the completed projects, please see **Section 3**.





1.3 Business Case Evaluation Experience

The business case is the critical document underpinning an investment decision. Business cases take various forms depending on the needs of the owning institution and the jurisdiction. However the elements for a successful business case are the same universally:

 Demonstrating the logic for investment – the decision of whether and how to invest must be demonstrated by evidencesupported and transparent logic. Decision-makers should draw comfort from the business case that the right type of investment to address the identified problems is being executed at the right time, in alignment with the organization's strategic goals, and with confidence that it can be delivered as promised. Ideally, the business case development process should inform the direction For this assignment, we will build on IEUA's existing tools and departmental policies for Business Case Evaluation and bring best-practice insights from elsewhere. Our business case development specialists will ensure the final document is compelling and clear.

business case development process should inform the direction of strategic and technical options analysis through an inquiry driven approach, rather than simply documenting the approach taken.

- A compelling and accessible form the business case is the key tool for communication and action
 by executive management and other critical decision-makers. Too often, a business case morphs into an
 extended technical analysis and design document and the strength of the narrative underpinning the
 investment is reduced or lost completely. Business case developers must understand the audience for
 the document and manage the form appropriately.
- Use of robust analysis techniques complex projects generate complex outcomes, and 'is it worth it?' is not a simple question to answer. That is why business cases use robust analysis tools and techniques including financial modeling (including whole-of-life costs e.g. net present cost), wider economic analysis, and risk analysis.

GHD Advisory has a team of commercially focused professionals dedicated to business case development and feasibility analysis. Our team of engineers, economists, accountants and other specialists are experienced in developing the elements for a successful business case.

We have worked across all infrastructure sectors with a large number of public and private sector clients in the US and Canada as well as Australia and New Zealand and bring considerable cross-jurisdictional knowledge of 'best-practice'. We specialize in delivering business cases without a disciplinary bias, bringing these insights into the investment requirement and delivering effective option analysis techniques. In particular, we bring experience and capability in cost-benefit analysis, complex financial modeling and wider economic impact assessment.

Applying IEUA's Business Case Tool and GHD's Triple 'T' formula for success

Tactics

What's our objective, how do we leverage strengths and minimize risks, threats

Techniques

Applying leading edge techniques to gather evidence

Tailoring

Who is the audience, what is the most important to sponsors, and what adds value



1.4 Property and Real Estate Experience

Our business case evaluation (BCE) capability is tightly integrated with our property and real estate experience. GHD's Matthew Barkley and Jonathan Elton bring extensive experience with property and real estate assessments for infrastructure development across a range of industries, including strategic divestment of surplus property.



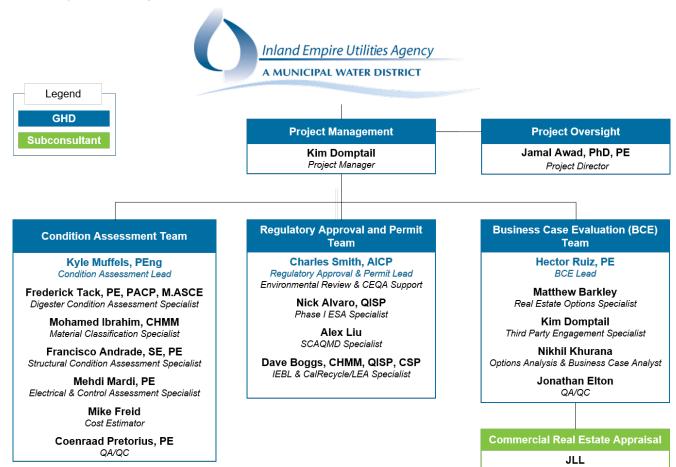
Jones Lang LaSalle (JLL) is a strategic partner of GHD. JLL is one of the worldwide leaders in commercial real estate brokerage and property management. JLL provides GHD with the research and resources to adequately evaluate and value strategic reuse of real estate assets. The information provided by JLL (absorption rates, local market values, and local and regional real estate trends) allows GHD to maximize value of our client's surplus and redundant assets.

2. Project Team

GHD's experienced and professional staff, along with our subconsultant, shown in the Organizational Chart below, bring together the resources, technical skills, and experience necessary to successfully complete this study. Biography summaries highlighting our key project team members experience and identifying their project roles and responsibilities is provided in Table 2.2 below. The estimated work hours each team member will contribute to this project is listed in the Work Effort on page 26. Resumes for the project team members are included in **Appendix A**.

2.1 Project Team Organization

Figure 2.1: Project Team Organization Chart





2.2 Key Project Team Member Biographies



Jamal Awad, PhD, PE | Project Director

Jamal has over 25 years of extensive experience in water quality, water and wastewater treatment planning, and engineering. He is sought after nationally to support creative implementation of engineering solutions and innovative technologies assessments. Currently, Jamal is the Deputy Owner Engineer/Technical Lead for the \$115M WRD GRIP AWTF Progressive Design Build project and has also managed the delivery of the Formatting of the IEUA Front End Contract Documents and IEUA Engineering Design Guidelines Project which had significant stakeholders' involvement and multiple Workshops to establish IEUA design preferences.



Kim Domptail | Project Manager

Kim is an environmental engineer with over 10 years of experience in the organic waste management, biogas, energy and climate change mitigation sectors. She has managed waste/biogas planning and feasibility studies in 20 countries across Latin America, Asia and Africa. As part of GHD's Innovative Waste Solutions group and Future Energy initiative, she is currently involved in several clean energy and organic waste processing projects in California. Specific project experience includes the development of a Renewable Technologies Site Master Plan evaluating different alternatives to beneficially use the available landfill gas and space at a local landfill, and support to Lystek food waste & biosolids processing project at Goleta Sanitary District.



Kyle Muffels, PEng | Lead for Condition Assessment

Kyle specializes in the material receiving, transfer, and processing of digestate and municipal solid waste including food waste, with a specific focus on material offtake as a class A or B soil amendment, fertilizers, and heat and power reclamation and generation. He regularly completes internal project management of various design disciplines, local and state permitting, construction management, contract administration, and detailed design engineering services involving site development and process. Kyle is currently the Project Manager for the RP-1 Digesters 6 & 7 Roof Repairs and significantly contributed to the Formatting of IEUA Front End Contract Documents.



Charles Smith, AICP, LEED AP BD+C | Lead for Environmental Review

Charles has over 25 years of experience in environmental impact assessment services for utility and public works infrastructure projects. He has managed CEQA environmental documentation to include program- and project-level Environmental Impact Reports, Initial Studies/Mitigated Negative Declarations, Mitigation Monitoring and Reporting Programs, and supporting technical studies for a broad range of waste management, water resources, energy, and transportation projects. Charles' local client experience includes a Recycled Water Master Plan EIR for Riverside Public Utilities, and numerous task orders for the County of Los Angeles Department of Public Works.



Hector Ruiz, PE | Lead for Business Case Evaluation

Hector has more than 25 years of experience in water and wastewater engineering and management. His experience with water and wastewater systems includes working side-by-side with maintenance and operations personnel on the upgrade, retrofit, condition assessment, and replacement of an agency's vertical and horizontal assets. As a former head of engineering and as a general manager of a public agency in South Orange County, Hector brings the experience of having worked for many years with water and wastewater operators and maintenance technicians in effectively planning and managing the rehabilitation, upgrade, and replacement of an agency's assets, and as such, understands the value of asset management from an owner's perspective.





Frederick Tack, PE, PACP, M.ASCE | Digester Condition Assessment Specialist

Frederick offers over 16 years of experience specializing in the engineering, planning, design, and rehabilitation of solids handling facilities. He has extensive experience delivering rehabilitation projects as the project manager for the award-winning City of Phoenix 91st Avenue WWTP Anaerobic Digester Condition Assessment and Rehabilitation project and as the current technical lead for the IEUA RP-1 Digesters 6 & 7 Rehabilitation project. Frederick will be able to apply his lessons learned as OE and guide IEUA on the solids process review of this contract.



Mohamed Ibrahim | Material Classification Specialist

Mohamed has over 19 years in the environmental field in various applications from public to the private sector. Support included quality assurance, control, and management over various environmental liabilities projects including identifying, investigating, managing, mitigating, and monitoring from chemical, physical, and radiological impacts. Mohamed's most recent employment includes supporting multiple large private oil & gas and railroad clients in waste management, including profile generation, manifesting, and TSDF/transporter coordination and reporting. Mohamed also possess effective procedure development having assisting his current client in development of such, targeted communication, good organization, and excellent people skills, including training both client and company staff.



Francisco Andrade, SE, PE | Structural Condition Assessment Specialist

Francisco has over 10 years of experience in civil and structural design, engineering, and project management for numerous complex projects and the ability to professionally and effectively interact with clients, contractors and other professionals. Knowledgeable in planning, code design standards, and construction inspection. Responsible for supervising, overseeing and coordinating lead project engineers and designers. Engineer of record and engineer in charge for multiple national and international projects. Local project involvement includes the Rialto Bioenergy Facility and IEUA On-Call Engineering Services.



Mehdi Mardi, PE | Electrical & Control Condition Assessment Specialist

Mehdi is a professional electrical engineer with over 20 years of experience in the Electrical, Instrumentation and Control (I&C) fields in various industries including water and waste water, oil & gas, petrochemical, cryogenic and industrial gases. Mehdi has been involved in electrical and I&C design, construction and commissioning on various projects including pump stations, desalination and water and wastewater treatment plants, industrial gas production, hydro power generation, land field gas, oil and gas field projects. He has experience in Medium and low voltage motor controls and distribution, as well as instrumentation design. Local project involvement includes the Rialto Bioenergy Facility.



Coenraad Pretorius, PE | QA/QC for Condition Assessment

Coenraad has over 25 years of experience in process design for water and wastewater treatment. His experience includes biological nutrient removal, secondary treatment design, capacity rating, process modeling and oxygen transfer, as well as grit removal. Recently he has focused on process control, in particular SRT control, and energy saving strategies, including optimization of mixing and aeration in aeration basins as well as mixing in anaerobic digesters. In South Africa, Coenraad also worked on low maintenance systems (including pond systems), industrial effluent treatment, acid mine drainage and treatment of potable water. Coenraad is GHD's North America Service Line Leader for wastewater treatment and recycling.





Mike Freid | Condition Assessment – Cost Estimator (Construction / Demolition)

Mike Freid has been with GHD since 1999 and offers more than 30 years of local construction experience. He specializes in cost estimating, constructability review, construction inspection, dispute resolution, and contract negotiations and management of water and wastewater related projects. Mike's background includes providing construction and commissioning services for water and wastewater treatment facilities, water mains, water supply/storage, well pumps, booster pumps, sewer lift stations, reinforced concrete structures, steel fabrication, and installation of large and small diameter collection and distribution pipeline projects.



Nick Alvaro, QISP | Regulatory Approvals & Permits - Phase I Assessment

Nick is a Qualified Industrial Stormwater Practitioner (QISP) with over thirteen years of professional experience working within the environmental industry with a primary focus on investigation and assessment, health & safety, compliance, and case management. His project experience includes Phase I and II environmental site assessments, environmental compliance reviews and audits, permitting, site conceptual modeling, agency coordination, field project planning and execution, contractor oversight, and full cycle project management. Nick has experience completing on site facility health & safety and environmental assessments and compliance audits. He has completed a variety of project assessments impacted by multiple contaminants including petroleum hydrocarbons, chlorinated solvents, pesticides, and heavy metals.



Alex Liu | Air Quality / SCAQMD Specialist

Alex is a SCAQMD certified permitting professional (CPP) and an accredited Low Carbon Fuel Standards (LCFS) lead verifier with 5 years of experience in air quality projects in California, Texas, Washington, and Virginia. Before consulting, he was a regulator and permit engineer at state environmental quality agency, which enables him to always keep up with the change in regulations. His experience include NSR permit application, rule assessment, BACT/T-BACT analysis, GHG and air emission inventory, GHG verification, CEQA/NEPA evaluation, and 40 CFR 60, 61, and 63 compliance for manufacturing, solid waste and energy sectors in the South Coast Air Basin and the State of Texas. Alex is also proficient in Title V, Non-Attainment NSR and PSD permitting at the state and federal level, as well as computer based air dispersion modeling (HARP2, AERMOD) for toxic and health impact evaluation.



Dave Boggs, CHMM, QISP, CSP | Regulatory Approvals & Permits

Dave is a Certified Hazardous Materials Manager (CHMM) and Qualified Industrial Stormwater Practitioner (QISP) with over 15 years' experience managing and performing regulatory compliance, permitting, due diligence, and assessment and remediation projects. He is on the forefront of upcoming regulations and the impacts they will have on his clients. Dave is co-chair of the Industrial Environmental Coalition of Orange County Hazardous Materials Committee and has lead hazardous materials and waste trainings for industry in Los Angeles and San Diego through the Industrial Environmental Association (IEA). Dave leads investigation and remediation projects driving risk based solutions to successfully close environmental assessment and remediation projects and reduce client's costs. Dave works closely with the Los Angeles Regional Water Quality Control Board (RWQCB) and Santa Ana RWQCB to negotiate effective solutions for his clients.



Matthew Barkley | Real Estate Options Specialist

Accomplished economist with a successful track record in delivering PMOs, designing strategic risk management strategies, performing portfolio optimizations, and developing cost-benefit models to improve capital programs and project expenditures. Consulted clients in streamlining resources for \$200M capital program, developing and executing global capital project and facilities management PMOs, designing portfolio strategies for redundant assets, and pioneering innovative insurance solutions to improve risk management.





Jonathan Elton | QA/QC for Business Case Evaluation

Jonathan is a results driven senior leader with a proven record of consistently delivering practical and implementable solutions to the toughest challenges. He relishes working in complex, multistakeholder environments and has wide experience in heavily regulated industries, politically sensitive locations and highly competitive markets in the US and around the world. In his executive career with Royal-Dutch Shell he managed the disposal of 697 sites, more than 30 of which were in California. In addition as a Board member in the Surplus Property Roundtable, he provided collective direction for a 501C3 non-profit organization of 25 major corporations dedicated to the sustainable rehabilitation of environmentally challenged real estate in North America.



Nikhil Khurana | Options Analysis and Business Case Analysis

Nikhil has a diverse set of experiences and interests in infrastructure development, particularly in the water and energy sectors, with a focus on extracting the most value from infrastructure investments. As part of GHD Advisory he has managed numerous business case, economic analysis, financial modeling, master planning, logistics and transaction advisory engagements – all with the aim of optimizing investment outcomes. Nikhil draws on his earlier process engineering experience in GHD's Water Technology group, where he was involved in process design of wastewater, desalination and water treatment plants, including several biosolids treatment and disposal projects.

3. Relevant Project Experience

GHD's relevant project references are commensurate with our project management and technical approach, combining our strengths in understanding organics and solids handling processes locally, nationally and internationally, along with being technically sound in business case practices and familiarity with the IEUA.

This section provides an overview of (1) our recent organics management project experience, (2) master planning, option analysis and BCE experience, and (3) extensive collaboration with IEUA on a number of current and past projects.

3.1 Organics Management Project Experience

GHD has completed organics management projects for a broad range of clients including regional municipalities, metropolitan governments, cities, and private developers as well as members of the agricultural, industrial, and commercial sectors. A selection of recent projects is presented below.

GHD recently serviced several organic waste management facilities each incorporating different technologies for organics / food waste pre-processing and processing, either using anaerobic digestion or composting, and various options for the management of the biogas, digestate and/or final compost. We consistently strive to increase our knowledge and expertise base by understanding the latest and best innovations in the field that can enhance environmental performance and capital and operating cost efficiencies and are proud to share these experiences with IEUA.



Anaergia Rialto Bioenergy Facility | Rialto, California

The Rialto Bioenergy Facility will convert up to 1,000 tpd of food waste and biosolids to renewable energy using two 3.5 Mgal anaerobic digesters, dryers and a pyrolysis unit. The biogas will be used for power generation (4.6 MW via CHP engines) and upgraded for delivery into the local natural gas pipeline. GHD provided detailed design and permitting services for the development of the facility, which will be the largest food waste anaerobic digestion system in the country when complete in 2020.





Lystek Organic Material Recovery Center | Fairfield, California

GHD provided detailed design and construction management service as part of the Design-Build-Own-Operate Project Team for the construction of the 150,000 tpy, state-of-the-art, Organic Material Recovery Center (OMRC) at the Fairfield Suisun Sewer District (FSSD) Wastewater Treatment Plant in Fairfield, California.



Lystek Skid Mounted Organics / Biosolids Processing | Goleta, California

GHD is providing grant administration services to Lystek's skid mounted pilot project, which aims at demonstrating the efficiency of a depackaging process and thermal hydrolysis technology for processing SSO, such as food waste from cafeterias at University of California, Santa Barbara, and biosolids.



Waste Management Transfer Station (TS) and Material Recovery Facility (MRF) | Sun Valley, California

GHD is providing architectural and engineering services for Waste Management (WM) Sun Valley TS/MRF at its Bradley West Landfill site. In addition to the conventional materials recycling equipment area, the facility includes a food waste receiving and pre-processing area using Anaergia OREX press in response to California AB 1826 diversion targets.



Disco Road Organics Processing Facility | Toronto, Ontario, Canada

GHD assisted with the development of a SSO material processing facility at the Disco Road Transfer Station from preliminary design, through to permitting, construction administration, commissioning, and warranty support. The facility was designed to process 75,000 tpy of SSO using wet pre-processing operations and anaerobic digestion.



Dufferin Organics Processing Facility Expansion | Toronto, Ontario, Canada

GHD successfully completed the coordination of SSO pre-processing technology prequalification, permitting, engineering studies, preliminary design, and development of an RFP to procure a DBOM contract for the expansion of a SSO material processing facility at the Dufferin Waste Management Facility from 25,000 tpy to 55,000 tpy.



Maple Reinders / Christiaens Group Organic Waste Processing Facility - Tunnel Composting | Guelph, Ontario, Canada

GHD provided project management services for the design review, construction oversight, contract administration, and commissioning of a 30,000 tpy OWPF capable of processing SSO waste into a reusable compost material.



Orgaworld / Renewi Organics Processing Facility - Tunnel Composting | London, Ontario, Canada

The London SSO Processing Facility is a 150,000 tpy tunnel composting facility processing organic waste consisting primarily of kitchen waste and diapers. GHD provided engineering services for the design, permitting, and construction of the facility, as well as operational support after the facility began operations in 2007.



3.1.1 Profiles for Select Organics Management Projects

Client

W. M. Lyles Co., on behalf of Rialto Bioenergy Facility, LLC (a wholly owned subsidiary of Anaergia Services, LLC)

Reference

Yaniv Scherson, Anaergia 949-874-1118

Date

2017 - Ongoing

Value

Confidential

Relevance

Repurposing existing biosolids drying facility into bioenergy facility

Team Members Involved

Kyle Muffels – Project Manager & Design Manager Kim Domptail – Project Coordinator Dave Boggs – Environmental Lead

Client

Lystek International

Reference

Jim Dunbar 707-419-0084

Date

2018 - Ongoing

Value

Confidential

Relevance

Organics processing project at a water resource recovery facility

Team Members Involved

Kim Domptail – Project Manager Kyle Muffels – Technical Advisor

Rialto Bioenergy Facility, CA

Project Description

GHD provides detailed design and permitting services for the development of the Rialto Bioenergy Facility (RBF), an innovative resource recovery facility that will convert approximately 1,000 tons per day (tpd) of organic waste from municipal waste streams into renewable electricity,



renewable natural gas (RNG), and fertilizer products.

When completed in 2020, the RBF will be the largest food waste anaerobic digestion facility in the country. GHD's services include:

- Site design development
- Construction documents and permits
- Structural engineering
- Mechanical engineering
- Electrical and instrumentation and control
- Process engineering
- Fire protection
- Equipment procurement
- · Cybersecurity and network design
- HAZOP

Skid Mounted Organics / Biosolids Processing at Goleta Sanitary District, CA

Project Description

GHD is providing grant administration services to Lystek's organics management pilot project at Goleta Sanitary District (GSD).

The system can process digested biosolids from GSD and source-separated food waste from the University of California Santa Barbara (UCSB), including pre- and post-consumer food waste from the campus dining commons. The food waste is pre-processed using Smicon depackaging equipment, a European technology producing a



clean, high-organic slurry at about 15-30% solids and less than 1% contamination by weight.

The system also includes Lystek patented thermal hydrolysis reactor and two identical 8-cubic meter mesophilic anaerobic digesters for testing different codigestion ratio of biosolids and food waste, as well as different configuration and refeeding ratio of thermal hydrolysis product.

The Project was awarded a US\$1.5 million grant from the California Energy Commission (CEC)'s Electric Program Investment Charge (EPIC) Program and will provide other facilities with the ability to demonstrate the mobile units in the future.



3.2 Business Case Evaluation Experience

OCWR Renewable Technologies Site Master Plan | California

GHD developed a Renewable Technologies Site Master Plan (RTSMP) for the Prima Deshecha Landfill in San Juan Capistrano, CA, formulating and evaluating different alternatives for the use of the available landfill gas and site, as well as procurement & contractual approaches.

Option Analysis/Business Case for Wannon Water | Victoria, Australia

GHD Advisory worked closely with design and engineering teams to deliver a preliminary business case to Treasury that addressed the economic, commercial and technical requirements. The project established the planning and operational framework to assess Wannon Water in addressing the long term objectives required to meet its expanding customer base requirements. The preliminary business case was subsequently approved by Department of Treasury and Finance.

Cost-Benefit Analysis - West Basin Ocean Water Desalination Plant | California

GHD is currently developing a detailed financial model and quantitative & qualitative cost-benefit analysis for a >\$500m desalination facility proposed for El Segundo beach in Southern California. The analysis will form a core component of the final business case and investment decision for the client, West Basin Municipal Water District.

Great Tasting Water Business Case | Victoria, Australia

GHD developed a business case for treatment plant upgrades investment in improving the aesthetic (salt-related) quality of tap water supply to several tourist-centric towns in Victoria's southwest coast. This included broad consideration of typically-ignored social, health and economic benefits that could be derived from the project and foster improved quality-of-life. GHD worked with academics and the water utility to quantify expected community health benefits from reduced obesity and improved dental health.

Value-for-Money Analysis - Doheny Desalination Plant | California

GHD developed a detailed economic model to estimate and optimize cash-flows over the project lifetime, for assorted 5 to 15 mgd desalination plant options for the proposed Desalination Plant at Dana Point, Orange County. Considerations included Californian water governance and economic, regulatory and financial drivers, including complex rebate arrangements and grant conditions; Different project delivery options with and without private sector partnerships. This included detailed financial analysis and probabilistic risk assessment underlying a value-for-money (VfM) analysis.

Lithium Conversion Facility Location Study | Worldwide

GHD was engaged by a confidential multinational lithium company to determine the optimum location for a ~\$500 mil chemical conversion facility to produce final lithium carbonate and hydroxide product from lithium ore. The study was wide in scope, investigating options across the US, Canada, Europe and SE Asia. GHD used a robust methodology to identify critical drivers for location choice, reviewed market access and future trends, logistics networks, as well as analysis of waste, permitting and input cost implications. GHD tailored its options selection process to provide efficient methods to narrow down the options for location, using strategic-level shortlists to then develop detailed alternatives for further investigation.

Site & Property Acquisition Review and Best Practices

GHD evaluated and benchmarked a leading big-tech firm's data center site acquisition procedures, processes, and tools. The evaluation provided insights and identified best practices being implemented by the acquisition team and within similar industries to increase efficiently and consistency during site evaluation and purchase. These identified practices were used to develop a standalone site acquisition playbook that provides the site negotiators best practices when evaluating site attributes, engaging with due diligence vendors, and coordination with internal stakeholders. This playbook is being used across the tech company's data center program with a projected CAPEX of >\$20B over the next 5 years.



3.2.1 Profiles for Select Business Case Evaluation Projects

Client

Orange County Waste and Recycling (OCWR)

Reference

Jeff Arbour 714-380-8731

Date

2018 - 2019

Value

Confidential

Relevance

Business Case Evaluation for beneficial uses of landfill gas and available property.

Key Individuals Involved

Kyle Muffels – Project Manager Kim Domptail – BCE Lead and Project Coordinator Dave Boggs – Environmental Lead

Client

Wannon Water

Reference

Simon Hermans, General Manager +61 3 5565 6631

Date

2017-2019

Value

Confidential

Relevance

Project Alternative Analysis and Optimization

Team Members Involved

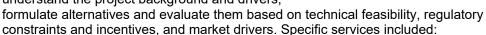
Nikhil Khurana

OCWR Renewable Technologies Site Master Plan, CA

Project Description

GHD developed a RTSMP for the Prima Deshecha Landfill in San Juan Capistrano, CA, evaluating the use and siting of renewable energy technologies applicable to landfill gas (LFG) generated at the site, including compressed natural gas (CNG) fueling, RNG pipeline injection, and power generation.

The Team worked directly with OCWR to understand the project background and drivers,



- Identification of potential technologies
- Regulatory review
- · High-level financial analysis
- Site evaluation
- Concept design (civil, electrical)
- Gas collection and control strategy
- Technology cost comparison
- Review of procurement and contracting strategies

The RTSMP will allow the successful implementation of projects ensuring continuous use of the LFG, regulatory compliance, protection of the surrounding communities, and a source of revenues.

Option Analysis/Business Case for Wannon Water, Hamilton, Victoria

Project Description

Wannon Water's Warnambool Sewage
Treatment Plant (WSTP) services
Warnambool and the nearby townships of
Koroit and Allansford. After recent optimization
works and minor capital upgrades that
maximized the treatment capacity of the
existing assets at the plant, the STP was
operating at the limit of its treatment capacity
and did not have spare capacity to
accommodate the significant increases in



domestic and industrial wastewater loads that are projected to occur by 2040. GHD undertook the development of a business case that addressed the problem definition, benefits identification, strategic response analysis, and project options assessment applied to evidence the need and effectiveness of the proposal Warnambool STP upgrade. The business case for the ~\$40mil upgrade (the authorities largest capital project) included:

- A detailed strategic options analysis undertaken in 2016 determined that the additional treatment capacity should be centralized at the existing plant
- Concept design investigations and options analyses conducted in 2017 concluded that the preferred solution involved treating the additional wastewater loads with Intermittently Decanted Extended Aeration (IDEA) tanks and a new inlet pump station, new inlet works and additional aeration capacity.

The preliminary business case was subsequently approved by Department of Treasury and Finance and the project is currently in construction phase.



3.3 Current and Past Projects with IEUA

| Project Name and Contract Number | Contract Value | IEUA Project Manager | Key GHD Staff |
|--|----------------------|-------------------------|--|
| Philadelphia Force Main Improvement 4600002572 | \$812,257 | Adham Almasri | Casey Raines (PM), Greg Watanabe, Pedro Alavrez, Matt Winkelman |
| Regional Force Main Improvement 4600002572 | \$324,317 | Adham Almasri | Casey Raines (PM), Greg Watanabe, Pedro Alavrez, Matt Winkelman, Francisco Andrade |
| IEUA On-Call Engineering Services 4600002557 | \$728,956 | Jerry Burke | |
| Technical review of valve submittal for specification compliance (Completed) | \$6,500 | Adham Almasri | |
| Asset Management Gap Analysis for IEUA (Ongoing) | \$135,780 | Joel | |
| Training of IEUA Project Managers on Engineering Design Guidelines and updated Front End Documents (Ongoing) | \$80,000 | Jamal Zugbhi | Jamal Awad (PM), Roop Lutchman, |
| Jurupa RW Option Financial Model CCWRF HVAC Upgrades | \$59,250 \$20,995 | Jerry Adham Almasri | Hector Ruiz, Ryan |
| 6. Reservoir 1158 RCRA Closure Environmental Reviews | \$12,575 | Jamal Zugbhi | Kristensen, Greg Watanabe, Casey |
| Collection System Asset Management program management support (Ongoing) | \$95,000 | Joel | Raines, Simon Driml, Pedro Alavrez, |
| 8. IEUA Engineering Standard Details development (Ongoing) | \$96,000 | Jamal Zugbhi | Francisco Andrade, Mike Southworth, Leila Munla, Mehdi |
| Development and Implementation of Asset Management Strategy and AM Ready Specifications at RP-5 | \$98,000 | Jason | Mardi, Richard MacKenzie, Dave Boggs |
| Recycled Water Line on Carpenter Avenue Engineering Services | \$25,000 | Adham Almasri | Doggs |
| 11. RP-1 modifications to hypochlorite feed facilities (Ongoing) | \$47,896 | Jamal Zugbhi | |
| 12. Review for the 930 Zone Valve Replacement Project | \$7,000 | Adham Almasri | |
| Carpenter Avenue Recycled Water Line Repair Engineering Services | \$45,000 | Adham Almasri | |
| IEUA Noise 4600002508 | \$16,617 | Claudia Neighbors | Christopher Andrews (PM) |
| Carbon Canyon Water Facility 4600002484 | \$226,424 | Adham Almasri | Jamal Awad (PM), Leila Munla, Ryan Kristensen, Francisco Andrade, Mike Southworth, Mehdi Mardi, Simon Driml |
| Digester 6 & 7 Roof Repairs 4600002328 | \$779,796 | Jamal Zughbi | Kyle Muffels (PM), Casey Raines, Frederick Tack |
| IEUA Front End Contract Documents 4600002218 | \$120,000 | Jerry Burke | Jamal Awad (PM), Greg Watanabe, Casey Raines, Ryan Kristensen |
| Engineering Consultant Standards 4600001811 | \$74,986 | Joshua Aguilar | Jamal Awad (PM), Greg Watanabe |



| Project Name and Contract Number | Contract Value | IEUA Project Manager | Key GHD Staff |
|--|-------------------------|-------------------------|---|
| Wineville Recycled Water Pipeline Extension and Additional Services 4600000873 | \$947,795, \$142,216 | Adham Almasri | Greg Watanabe (PM), Casey Raines |
| Haven Ave RSS Repair 4600002832 | \$211,458 | Adham Almasri | Casey Raines (PM), Greg Watanabe, Pedro Alavrez, Andy Leung, Parastou Hooshialsadat |

4. Project Understanding, Approach, and Methodology

4.1 Project Understanding

We understand IEUA commissioned an Organics Management Study in August 2000. The study set a policy objective for IEUA to develop an Organics Management Program that would help protect Chino Groundwater Basin from dairy manure contamination. The subsequent Organics Management Strategy Business Plan, released in May 2001, included the construction of several anaerobic digesters and cogeneration facilities at IEUA's wastewater treatment plants to process dairy washwater.

The first demonstration pilot plant was constructed adjacent to RP-5 in four phases:

- Phase IA was the construction in 2001-2002 of one rectangular, below-grade plug flow digester with grants from USDA/NRCS and CEC. The anticipated power generation was 500 kW. The design was intended to be expanded in phases to about four times the initial capacity of 1.2 million gallon (MG).
- Phase IB was the modification in 2005 of the plug flow digester to a partially mixed digester with a grant from Western United Resources Development, Inc. The anticipated power generation was an additional 443 kW.
- Phase II was the construction in 2005-2006 of two steel, above-ground vertical complete-mix digesters with 1.2 MG capacity each with a grant from CEC. The digesters were based on European technology and commissioned in May 2007. They were built to allow the introduction of food waste and the anticipated power generation was about 1,500 kW.
- The RP-5 Renewable Energy Efficiency Project (REEP) was established in April 2003 with a grant from DOE and the REEP cogeneration facility was completed in June 2007.

IEUA operated the RP-5 SHF/REEP facility from 2003 to 2009 when the project was suspended. An independent evaluation of RP-5 SHF/REEP in August 2009 concluded that the facility was not viable using manure as the primary feed based on conventional economics. Based on an evaluation of various alternatives, the study recommended that IEUA pursue the concept of third-party operation in the short term – less than 15 years and retain the option of converting RP-5 SHF to a municipal digestion facility in the long term if other circumstances warrant.

In 2010, IEUA entered into a lease agreement with Inland BioEnergy (led by Burrtec Inc.) which operated the facility to digest food waste provided by local commercial sources. The excess power was sold to IEUA as part of a Power Purchase Agreement. The lease agreement with Burrtec came to an end in March 2019.

IEUA seeks a consultant to perform a BCE of profitable alternative future uses of the RP-5 SHF to select its preferred option for implementation.

The figure below illustrates the main steps of the BCE as defined in IEUA BCE manual, along with key considerations and our preliminary understanding for each of the steps in this particular assignment. The BCE process will test, confirm and analyze this preliminary description.



Figure 4.1: Overall BCE Process Flow for this Assignment based on IEUA BCE Manual

Define the drivers State the problem Formulate alternatives Analyze the alternatives

Key Considerations and Preliminary Understanding

- IEUA owns a 10-acre site with idle assets (e.g., building, digesters).
- The third-party lease agreement ended in March 2019 and IEUA would like to evaluate potential future uses of the facilities and/or site.
- Based on previous evaluations, success is most often achieved when an entity with its core business in the area takes over operations.
- This BCE aims at identifying the most cost effective use of the RP-5 SHF
 & REEP facilities and/or site, most likely excluding operations by IEUA.
- · Define the options strategically
- · Define specific detailed alternatives for investigation
- Current alternatives, to be reviewed jointly during the BCE process, include:
 - · Alt 1: Do nothing, maintain the facilities as-is, retain land.
 - · Alt 2: Demolish the facilities and sell the land.
 - · Alt 3: Demolish the facility, build a warehouse and lease for 20 years.
 - Alt 4: Sell the property and equipment as-is.
 - Alt 5: Lease the facilities to a third-party to operate for ~20 years.
 - Alt 6: Sell the equipment to a third party (as-is) and retain the land.
 - Alt 7: Enter into partnership with third-party firms (various options).
- · Task 1: High-level condition assessment and cost estimates.
- Task 2: Environmental review, permit/approvals review, Phase I ESA.
- Task 3: Options analysis, Land appraisal; Third-party engagement; BCE
- Recommend and report
- Draft and Final Evaluation Report
- · Presentation to IEUA Board as needed

As mentioned in the above figure, alternatives will be reviewed and reconfirmed as part of the business case process. For the alternatives currently identified by IEUA, the tables below summarize our preliminary understanding of the main costs/benefits to take into account for each option and the potential advantages/disadvantages for planning considerations.



Table 4.1: Preliminary Discussion of Alternatives 1 through 4

| | Alternative 1 Do nothing, maintain the facilities as-is, retain land | Alternative 2 Demolish the facilities and sell the land | Alternative 3 Demolish the facility, regrade, build a warehouse and lease for 20 yrs. | Alternative 4 Sell the property and equipment as-is |
|-------------------------|--|--|---|---|
| Capital Outlays | Sampling/material- handling/cleaning of residual waste materials Maintain de- energization/LOTO | Hazardous materials assessment Engineering Cost to demolish all abovegrade and below-grade structures Temporary utilities Cost to remediate Cost to rough-grade | Hazardous materials assessment Engineering Cost to demolish all aboveand below-grade structures Land use change approval Temporary utilities Cost to remediate Cost to regrade Cost to build warehouse | Hazardous materials assessment Engineering |
| Benefits | | Credit for scrap value(s)Income generated from selling the land | Credit for scrap value(s)Monthly income from warehouse lease | Income generated from selling the land and equipment as-is |
| Annual Running Costs | Administration Annual maintenance cost while out of service Maintain LOTO controls Maintain site securities Maintain stormwater controls and reporting | Maintain stormwater controls and reporting Administration until deal closed (accounting and real estate) | Administration (accounting and real estate) | Administration (accounting and real estate) until deal closed |
| R&R Costs | • N/A | • N/A | • N/A | • N/A |
| Net Present Value | TBD in this study | TBD in this study | TBD in this study | TBD in this study |
| | | | | |
| Advantages | IEUA retains ownership for potential future uses. | Larger buyer market | Maintain landownership and generate annual revenue | Capitalize on waste management market |
| Disadvantages | Potential liability risks associated with unstaffed site. | IEUA loses an asset for potential future uses. Increased engineering and capital to prepare site for sale. | Significant investment required. Warehouse outside of IEUA core business, difficult to compete. | IEUA loses an asset for potential future uses. Less engineering and capital to prepare site for sale |



Table 4.2: Preliminary Discussion of Alternatives 5 through 7

| | Alternative 5.1 | Alternative 5.2 | Alternative 6 | Alternative 7 |
|-------------------------|--|---|--|--|
| | Lease equipment and site to a third-party to operate for an extended period (~20 years) | Sell equipment and lease site to a third-party to operate for an extended period (~20 years) | Sell the equipment to a third- party (as-is) and retain the land | Enter into partnership with third-party firms (various options) |
| Capital Outlays | Hazardous materials assessment Engineering Utility interconnection management | Hazardous materials assessment Engineering Utility interconnection management | EngineeringDe-energization/LOTO | Engineering |
| Benefits | Income generated from lease or revenue sharing from operations | Income generated from selling the equipment Income generated from lease or revenue sharing from operations | Income generated from selling the equipment | • TBD |
| Annual Running Costs | Site maintenance borne by third-party Administration, including contract administration | Site maintenance borne by third-party Administration, including contract administration | Administration Annual maintenance cost while out of service Maintain LOTO controls Maintain site securities Maintain stormwater controls and reporting | Site maintenance borne by third-party Administration, including contract administration |
| R&R Costs | Borne by third-party | Borne by third-party | • N/A | Borne by third-party |
| Net Present Value | TBD in this study | TBD in this study | TBD in this study | TBD in this study |
| | 1 | | | |
| Advantages | Potential beneficial synergies with RP5 expansion Re-value contract/income with a 3rd party* | Potential beneficial synergies with RP5 expansion Re-value contract/income with a 3rd party* | IEUA retains ownership of the land for potential future uses. | Potential beneficial synergies with RP5 expansion Re-value contract/income with a 3rd party* |
| Disadvantages | Maintain site and contract administration | Maintain site and contract administration | Land sits idle without revenue | Maintain site and contract administration |



4.2 Approach

Our overall approach consists of four main tasks as summarized below.

| Tasks | Key Activities | Deliverables / Outputs |
|---|--|---|
| Task 0: Strategic initiation & project management Task 1: High level condition assessment and cost estimates | Kick-off meeting Project administration Regular communication with IEUA staff Background information/as-built retrieval Field evaluation (specialty equipment / digesters, material classification, civil / utilities, electrical) Gather quotes from specialty equipment manufacturing for condition / refurbishment quotes (depending on available information on last service record) Develop/review comprehensive equipment list including | Meeting notes Monthly status reports Regular updates as needed Depending on the final list of alternatives selected for evaluation, outputs may include: Estimated costs and assumptions to mothball facilities (Option 1) Estimated costs & assumptions to demolish reclaim, rough-grade for selling land or building warehouse (Option 2 & 3) Condition assessment and estimated value of equipment to sell (Options 4 & 6) or reuse by third-party (Options 5 & 7) |
| Task 2: Environmental review | maintenance/warranty records. Estimate costs Review Program Environmental Impact Report (EIR) and identify adopted mitigation measures that need to be included in each option. Support environmental permit applications (if required and as needed). Review current permits and monitoring requirements from AQMD, IEBL, etc. for each option. Perform Phase I Environmental Site Assessment. | Summary table of the adopted mitigation measures from the Program EIR relevant to each option Project information to support environmental permit applications (if required and as needed) Analysis of regulatory requirements and permits Phase I ESA report |
| Task 3: Business Case Evaluation | Alignment and opportunity framing workshop Real estate appraisal and market information review, assess best timing and timeline for any lease/sale Confidential discussions with credible and funded interested third parties BCE using IEUA BCE tool based on estimated costs from Task 1 and Task 2 Incorporate review and feedback from IEUA's BCE Technical Reviewers | Confirmation of business case drivers (in the form of problem statements) Strategic options list Detailed alternatives list Real estate appraisal and market information report BCE spreadsheet Options analysis |
| Task 4: Reporting | Draft and Final Evaluation Report Presentation to the Board (if requested) | Draft and Final Evaluation report, including: TM1 - Executive Summary TM2 - Options Analysis TM3 - Regulatory Requirements and Permits TM4 - Conclusions and Recommendations PowerPoint Presentation (if requested) |



4.3 Detailed Methodology Workflow

Task 0: Strategic Initiation, Project Management and Reporting

| Tasks | Key Considerations | | |
|------------------------------------|--|--|--|
| Full mobilization | Within a week of contract award, GHD will work to execute the Agreement and fully mobilize the Team. | | |
| Kick-off meeting with IEUA team | award (provided contrac | held (in person or teleconference) within 10 calendar days of contract t execution) in order to review the business case drivers, proposed project management, available information and agree on timeline and | |
| | Draft kick-off meeting agenda with IEUA team: | | |
| | Introductions | Team introductionsUpdates since the RFP and proposal submission | |
| | Technical details | Review objectives and business case drivers (to be explored further in the framing workshop) | |
| | | Access to existing permits, Access of AQMD and Brine Line monitoring requirements (costs) | |
| | | Access to appropriate current contacts | |
| | | Outline real estate approach | |
| | | Review and discuss use of BCE tool | |
| | Deliverables & schedule | Align on deliverable content & formatAlign on proposed milestone dates | |
| | Project approach | Agree on communication protocols between IEUA team and GHD Agree on communication protocols between GHD and third | |
| | | parties | |
| | Contract | Review contract (if needed) | |
| | administration | Monthly status reports (format, timing) | |
| | | Invoices (format, timing) | |
| Ongoing communication | GHD's Project Management Team will be available throughout the duration of the study to coordinate with IEUA team, provide regular project updates and answer questions as needed. | | |
| Monthly status reports | • | hments during the period | |
| | Any budget or scheduling issues | | |
| | Look ahead schedule listing deliverables and activities planned for the next period. Ad hoc updates will also be submitted for any urgent and material developments as/when they arise. | | |
| Deliverables / Outputs | Kick-off meeting notes / decision log Monthly status reports for July, August, September, and October | | |



Task 1: High level condition assessment and cost estimates

| Tasks | Key Considerations | |
|---|--|--|
| Background information/as-built retrieval | Ensure that existing documentation is representative of current conditions. This includes information covering all engineering disciplines involving civil, structural, mechanical, electrical, and process/instrumentation. GHD will work with IEUA staff and reach out to the former consultant if needed, to ascertain as-built information developed during the course of the improvements made to the Site. Intent is to have the design drawings or calculations of all physical site improvement features made to the site. | |
| | Develop/review comprehensive equipment list including maintenance/warranty records. | |
| Field evaluation | Review and validate that the current conditions reflect background/as-built drawings and lists. This is to be performed by specialists in each engineering discipline, civil, structural, mechanical, electrical/controls. | |
| Quotations | Optional for specialty equipment based on client's desires or need to fulfill information gaps depending on degree of maintenance records. | |
| | GHD will also ascertain current market value for disposal and scrap costs. | |
| Estimate costs | GHD will provide a Class 5 capital cost estimate per recommended practices defined by the Association for the Advancement of Cost Engineering (AACE) intended for project budget purposes. The methodology used to develop this cost estimate is considered to have an accuracy range of +30 percent to +100 percent on the high side and -20 percent to -50 percent on the low side. | |
| Deliverables / | Depending on the final list of alternatives selected for evaluation, outputs may include: | |
| Outputs | Estimated costs and assumptions to mothball facilities (Option 1) | |
| | Estimated costs and assumptions to demolish, reclaim, rough-grade for selling land or building warehouse (Option 2 & 3) | |
| | Condition assessment and estimated value of equipment to sell (Options 4 & 6) or reuse by third-party (Options 5 & 7) | |

Task 2: Environmental review

Program EIR review

| Tasks | Key Considerations |
|--|--|
| Environmental support (as required) | GHD acknowledges that IEUA will be responsible for the preparation and processing of all environmental review documents for the project. We understand these to include California Environmental Quality Act (CEQA) documentation, as well as environmental permits. |
| | As required, GHD will provide IEUA with project descriptions, maps, technical data, and other applicable information as needed for IEUA to prepare and submit environmental permit applications. |
| Review Program EIR and incorporate the adopted mitigation measures into the project evaluation | GHD will review the Program EIR to identify adopted mitigation measures to be included in the project design for each alternative. |
| | We will provide a summary table of these mitigation measures, compiled from the EIR Mitigation Monitoring and Reporting Program (MMRP), which identifies the mitigation activity, responsible party, and timeframe for implementation. |
| Deliverables / Outputs | Summary table of the adopted mitigation measures from the Program EIR relevant to each option |
| | Project information to support environmental permit applications (if required and as needed) |



Regulatory Requirements and Permits

| Tasks | Key Considerations |
|--|---|
| Review existing permits and programs from current facility use | GHD will review and identify the existing environmental permits and programs including air, hazardous materials and waste, stormwater, wastewater, CalRecycle and the Inland Empire Brine Line (IEBL). |
| Evaluate permit and program needs for future use scenarios | GHD will identify the significant regulatory permits and programs required for each use scenario. We will evaluate permit transferability as well as whether IEUA, or another entity, will have responsibility for managing and maintaining the permits and programs. |
| Deliverables / Outputs | Summary of Regulatory Requirements and Permits |

Phase I Environmental Site Assessment (ESA)

A Phase I ESA will be required if selling the property to determine the potential for recognized environmental conditions (RECs). We propose to perform a Phase I ESA as part of this assignment to identify potential environmental risks (RECs) that could affect land value. If the Phase I ESA does not identify any potential RECs, the BCE will assume no significant deductions in land value. If the Phase I ESA does identify potential RECs (which is the most likely scenario since this is an industrial site that received waste over many years), further investigation will be required. A Phase II ESA is outside the current scope of this assignment.

The Phase I ESA for the Site will be tailored based on the type of property and will be conducted in general accordance with the ASTM Standard. The Phase I ESA will consist of the following four primary components:

| Tasks | Key Considerations |
|----------------|--|
| Records Review | A review of standard state and federal record resources, as well as records regarding current and prior uses of the site and adjoining properties. |
| | Computerized search of federal and state database at specified distances, which may yield information related to the use, storage and/or discharge of hazardous substances and/or petroleum products on or close to the site, including permits, notices of violation, registered underground and above-ground storage tanks (UST/AST), etc. |
| | Standard historical record sources such as fire insurance maps, city directories, aerial photographs, topographic maps, etc. to identify uses of the site since if was first developed or back to 1940, whichever is earlier. This review may uncover evidence of prior excavation, structure additions/demolitions, or other activities with the potential to have released hazardous substances and/or petroleum products. |
| | Environmental cleanup liens and/or activity and use limitations (AULs) connected with the site. |

Reconnaissance

A Site reconnaissance including review of the former and ongoing operations, waste/chemical handling, and waste/chemical storage practices associated with the Site and a walk through inspection of any Site structures and surrounding grounds will be conducted.

The objective of the Site reconnaissance is to obtain information indicating the likelihood of identifying RECs in connection with the Site. Such indications may include:

- Evidence of surficial contamination related to releases, leaks, or emissions of hazardous substances or petroleum products
- Potential presence of polychlorinated biphenyl (PCB) containing liquids in electrical, hydraulic, or other equipment, including transformers, capacitors, switch gear, starters, circuit breakers, and lamp ballasts
- Source and type of wastewater generated at the facility, the location and configuration of site wastewater sewers, and the ultimate receptor(s) of wastewater discharges
- Air emissions sources and discharge points

Observation of these activities is primarily confined to the Site under evaluation, although



| Tasks | Key Considerations |
|---------------------------|--|
| | problematic off-site activities are also reviewed. During the Site reconnaissance, a photographic record of pertinent features is obtained. |
| Interviews | Interviews of individuals associated with the Site will be conducted and will include one or more of past and current owners, Key Site Managers, operators, and occupants of the Site familiar with the historic and current use and operating practices of the Site, to the extent practicable. |
| | The objective of interviews is to obtain information indicating potential RECs in connection with the Site's historical operating conditions and practices. |
| Summary Report | The information collected from the above information sources will be compiled into a draft Phase I ESA report describing RECs and related potential environmental impairment issues. The report will include a Findings and Conclusions section detailing any RECs and/or Business Environmental Risk (BERs) revealed in connection with the Site. |
| | If requested by IEUA, based on the Phase I ESA report, GHD will provide recommendations under separate cover for additional data collection in a Phase II ESA to the extent that such activities are necessary to more completely assess the presence of RECs or evaluate BERs, as defined in the ASTM Standard, associated with the Site. |
| Deliverables / Outputs | Draft and Final Phase I ESA report |

Task 3: Business Case Evaluation

| Tasks | Key Considerations |
|-------------------------------|--|
| Opportunity framing workshop | An opportunity framing workshop will be held in order to gain input from key attendees regarding: Reconfirm scope framework, expectations and deliverables, deliver alignment for all involved |
| | Reconfirm quantitative and qualitative business drivers and importance of final selection criteria |
| | Understand any constraints and sensitive issues |
| | Understand key external stakeholders, communications protocols and reputational drivers. |
| | GHD recommends that IEUA have an executive presence, people knowledgeable about the site and the business case sponsor in attendance. This is in line with IEUA BCE Manual which includes sign off by designated approvers. |
| Real estate appraisal | GHD together with our partner JLL will undertake a real estate appraisal of the plot and current market conditions. JLL has a well-established and knowledgeable representation in the market that will provide insights and access to a strong network of contacts. |
| | The appraisal will take into account the current state of the land as well as options to improve that such as through remediation and/or development. It is noted that the current land use zoning is M2 General Industrial. Various currently permissible uses will be assessed together with other potential uses if they have the potential to significantly add value. |
| | We will use the results from the real estate appraisal performed by Kennedy-Jenks & Syn-Mar Associates for IEUA Carbon Canyon Water Recycling Facility Mothballing Evaluation in July 2019 as a comparison reference. |
| Discussion with third parties | GHD will engage with credible and potentially interested third parties. This will be a material input into the evaluation of options for feasible options to IEUA. |
| | With IEUA's prior permission, GHD would engage selected potential buyers/lessees to assess and build interest. The intention is not to receive specific offers or solicitations from buyers – rather the engagement will be used to build knowledge on the options and market interest in various uses for the site. |
| | The engagement process may in the future be a route to a direct sale or it may be that the site is taken a competitive process. Each has advantages and disadvantages in terms of cost, time and |



Tasks Key Considerations

outcome, which can be presented with a recommendation to IEUA for their decision.

Future uses for the site may include property development or use of existing infrastructure to continue organics management operations. GHD is well positioned to engage with this market: we have strong relationships with a wide variety of national and Californian development and private equity companies and together with JLL will further identify additional local buyers; furthermore as a leader in organics management we have extensive relationships with developers, technology providers, operators, and investors in this space.

Review and reconfirm proposed options

Based on the outcomes of the previous tasks, GHD will present the credible proposed options to be investigated and those ruled out for IEUA consideration. Additional options may be included or conversely, some options might be discarded from further analysis.

GHD will adopt a two stage process to define and reconfirm options:

1. **Define Strategic Options List** – this will involve definition of a set of strategic-level approaches that solve the problems driving the business case. At this level, options will not contain specific detail on design data or procurement specifics. Rather, they will approach the problem from a technical unbiased and executive-level perspective.

Examples of strategic options may include: do nothing, retain and repurpose the site, divest site, or retain site and divest assets, etc. Strategic options will be tested for alignment with organizational strategy, regulation, and high level cost/risk assessment. It may be that some strategic options can be immediately discarded from further analysis.

For example, Alternatives 2 (demolish and sell) and 4 (sell as-is) could be considered as the same strategic option of 'divest site'.

Similarly, Alternatives 5 (lease agreement) and 7 (partnerships) may be considered to have the same strategic intent of 'reviving operations'.

2. Define Detailed Alternatives List – IEUA has already identified a number of project alternatives that deliver specific technical options for the site. Different detailed options may be considered or removed as relevant.

For example Alternatives 2 and 4 could be considered as different detailed alternatives with the same strategic intent.

The two step process helps ensure that detailed options development is only undertaken for credible alternatives, therefore optimizing the time, cost and effort in the BCE process.

Business Case Evaluation

With the refined list of alternatives, GHD will undertake a comprehensive assessment of each based on discussion with IEUA staff and potential interested third parties, including but not limited to:

- Detailed description of the alternative
- Cost estimation, using inputs from Task 1 and 2
- Income estimation using the real estate appraisal, market condition understanding and third-party engagements
- Risk identification, mitigations and register
- Third-party reactions, including advantages / disadvantages for planning considerations
- Timeline and resources required for completion
- Transfer of/elimination of any potential future liabilities
- Use of IEUA BCE tools to determine whole-of-life costs (NPV), risk analysis and sensitivity assessment. Internal as well as environmental/social costs will be considered.

GHD is familiar with and has previously used the BCE and similar tools to understand redevelopment options and these tools will form the methodology for the options analysis. As common for all BCE tools, establishing the criteria and the weight is critical and we will develop these in collaboration with IEUA staff at the beginning of the project to establish a meaningful BCE process.

Deliverables / Outputs

- Workshop materials
- Confirmation of business case drivers (in the form of problem statements)
- Strategic options list



| Tasks | Key Considerations | | | | |
|----------------|---|--|--|--|--|
| Deliverables / | Detailed alternatives list | | | | |
| Outputs | Real estate appraisal and market information report | | | | |
| | BCE spreadsheet | | | | |
| | Options analysis | | | | |

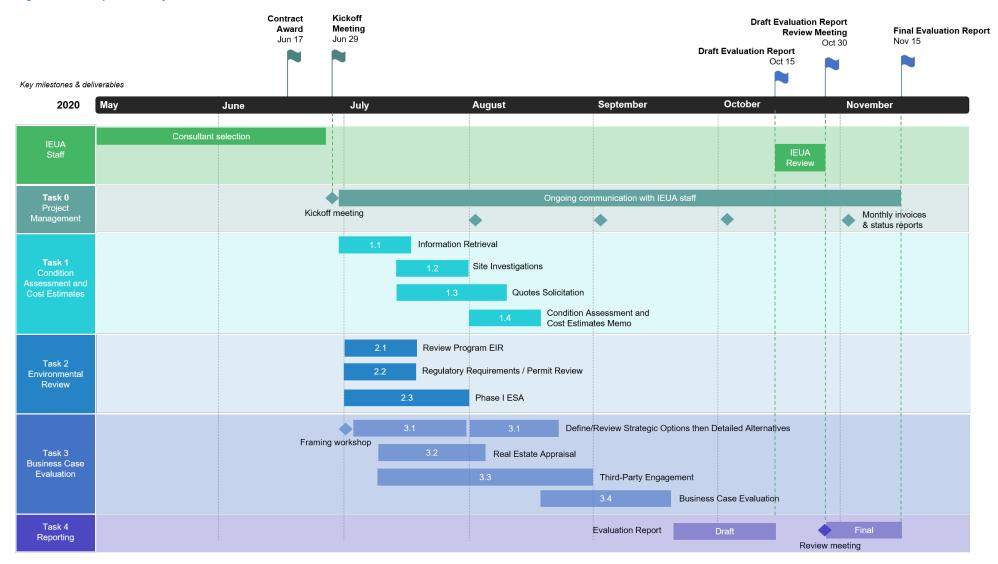
Task 4: Reporting

| Tasks | Key Considerations | | | | | |
|-------------------------------|--|--|--|--|--|--|
| Evaluation Report | GHD will submit a complete Evaluation Report, including the following Technical Memorandums (TMs): | | | | | |
| | TM1 - Executive Summary | | | | | |
| | TM2 - Options Analysis | | | | | |
| | TM3 - Regulatory Requirements and Permits | | | | | |
| | TM4 - Conclusions and Recommendations | | | | | |
| | For this assignment, we will build on IEUA's existing tools and departmental policies for BCE and bring best-practice insights from elsewhere. Our business case development specialists will work to prepare a final document that is compelling and clear. | | | | | |
| | GHD will submit a draft version and allow 14 days for IEUA's review in advance of the Evaluation Report Review Meeting. | | | | | |
| Presentation to IEUA Board | If requested by IEUA Executive Management, GHD will prepare a PowerPoint presentation summarizing findings and recommendations and present to the Board of Directors | | | | | |
| Deliverables / Outputs | Draft and Final Evaluation Report Presentation to IEUA Board of Directors (if requested) | | | | | |



4.4 Schedule

Figure 4.2: Proposed Project Schedule





4.5 Level of Effort

Level of Effort Inland Empire Utilities Agency RP-5 Solids Handling Facility Future Uses Evaluation April 23, 2020

| Proposed Staff | Jamal Awad | Kim Domptail | Kyle Muffels | Frederick Tack | Mohamed Ibrahim | Francisco Andrade | Mike Freid | Mehdi Mardi | Coenraad Pretorius | Charles Smith | Dave Boggs | Alex Liu | Nick Alvaro | Hector Ruiz | Jonathan Elton | Matthew Barkley | Nikhil Khurana | Total Task |
|--|------------------|--------------------|---------------------|-----------------------|----------------------------|------------------------|----------------|------------------------|--------------------|-----------------------|---------------------|----------------|-------------|-------------|----------------|--------------------------|---------------------|---------------|
| ENGINEERING CONSULTING SERVICES RP-5 SHF FUTURE USES EVALUATION | Project Director | Project Manager | Engineering Lead | Digesters Assessmt | Material Classification | Structural Engineer | Cost Estimator | Electrical Engineer | QA/QC | Environmental Lead | Environmt Review | Air Permitting | Phase I ESA | BCE Lead | QA/QC | Real Estate Appraisal | Options Analysis | Hours |
| | | | | | | | | | | | | | | | | | | |
| Task 0: Project Management | | | | | | | | | | | | | | | | | | |
| 0.1 Project administration | 2 | 24 | | | | | | | | | | | | | | | | 26 |
| 0.2 Mobilization & kickoff meeting | 1 | 8 | 4 | | | | | | | 2 | | | | 4 | | | 2 | 21 |
| Task 1: Condition Assessment | | | | | | | | | | | | | | | | | | |
| 1.1 Information retrieval | | 2 | 12 | 8 | | | | | | | | | | | | | | 22 |
| 1.2 Site investigation | | 2 | 8 | 8 | | 8 | | 8 | | | | | | | | | | 34 |
| 1.3 Quotes (as needed) | | 2 | 16 | | | | | | | | | | | | | | | 18 |
| 1.4 Condition assessment memo and cost estimates | | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 8 | | | | | | | | | 120 |
| Task 2: Environmental Review | | | | | | | | | | | | | | | | | | |
| 2.1 Program EIR review | | 2 | | | | | | | | 10 | | | | | | | | 12 |
| 2.2 Potential CEQA support | | | | | | | | | | | | | | | | | | |
| 2.3 Regulatory requirements and permits review | | 2 | | | | | | | | | 16 | 16 | | | | | | 34 |
| 2.4 Phase I ESA | | 2 | | | | | | | | | | | 40 | | | | | 42 |
| Task 3: Business Case Evaluation | | | | | | | | | | | | | | | | | | |
| 3.1 Framing workshop & review of alternatives | | 16 | 2 | | | | | | | | | | | 4 | 12 | | 16 | 50 |
| 3.2 Real estate appraisal + JLL lump | | 2 | | | | | | | | | | | | | | 24 | | 26 |
| sum support not shown here 3.3 Third-party engagement | | 30 | 8 | | | | | | | | | | | 8 | | 8 | 8 | 62 |
| 3.4 Business Case Evaluation | 2 | 24 | 8 | | | | | | | | | | | 4 | 8 | U | 50 | 96 |
| Task 4: Reporting | | 24 | U | | | | | | | | | | | 4 | O | | 50 | 90 |
| 4.1 Draft Evaluation Report | 2 | 16 | 4 | | | | | | | 4 | | | | 4 | | | 16 | 46 |
| 4.2 Review Meeting and Final | 1 | 8 | 4 | | | | | | | 2 | | | | 2 | | | 4 | 21 |
| Evaluation Report 4.3 Board Presentation | | | - | | | | | | | | | | | | | | | |
| (if requested) | 1 | 8 | 4 | | | | | | | 2 | | | | 4 | | | 4 | 23 |
| TOTAL HOURS - All Tasks | 9 | 164 | 86 | 32 | 16 | 24 | 16 | 24 | 8 | 20 | 16 | 16 | 40 | 30 | 20 | 32 | 100 | 653 |
| % of total hours | 1% | 25% | 13% | 5% | 2% | 4% | 2% | 4% | 1% | 3% | 2% | 2% | 6% | 5% | 3% | 5% | 15% | 100% |



GHD

Kim Domptail

Project Manager



Qualified: MSE Environmental Engineering, Johns Hopkins University, Baltimore, MD (2009), BSc Environmental Engineering, Ecole des Ponts ParisTech (ENPC), Paris, France (2007) **Professional Summary:** Kim is an environmental engineer with 10+ years of experience in the organic waste management, biogas, energy and climate change mitigation sectors.

She has managed planning and feasibility studies in 20 countries across Latin America, Asia and Africa, and speaks French, English and Spanish fluently.

Kim is part of GHD's Innovative Waste Solutions group and Future Energy initiative and is currently managing several clean energy and organic waste processing projects in California. Prior to joining GHD in Irvine, CA, Kim worked for Naldeo in Lyon (France), Tetra Tech in Washington D.C., and the French Geological Survey in Beijing (China).

Select Projects

Project Manager State-of-the-Art Study for Hydrogen Injection in Natural Gas Networks | PRCI | 2020 – present

Kim is managing a team to analyze current lab studies and field pilots worldwide for hydrogen injection in natural gas networks in order to establish a state-of-the-art, identify knowledge gaps and recommend future R&D projects around 11 technical subjects including pipeline corrosion & coating, safety, metering, and sensitive customers. The project team includes GHD's subject matter experts as well as PRCI member companies.

Project Manager Skid Mounted Food Waste and Biosolids Anaerobic Digestion and Thermal Hydrolysis | Lystek | Goleta, CA, US | 2018 – present

Kim is providing grant administration services to Lystek for this demonstration project with funding from the Electric Program Investment Charge (EPIC) under the California Energy Commission (CEC). The project combines a food waste preprocessing unit, anaerobic digestion, Lystek's thermal hydrolysis technology and biogas uses.

Project Coordinator and Engineer Prima Deshecha Landfill Renewable Technologies Site Master Plan | Orange County Waste and Recycling (OCWR) | San Juan Capistrano, CA, US | 2018 – 2019

Kim was a technical expert and project coordinator for the development of a Renewable Technologies Site Master Plan for the Prima Deshecha landfill in Southern California. The study evaluates alternative technology options and procurement / contracting approaches to beneficially use the available landfill gas and space, including power generation, CNG vehicle fueling station, and renewable natural gas (RNG) pipeline injection.

Project Coordinator Rialto Bioenergy Facility | W.M. Lyles | California | 2017 – 2019

Kim supported the development of the Rialto Bioenergy Facility, an innovative resource recovery facility in Southern California that will convert approximately 700 tonnes per day (tpd) of organics recovered from solid waste and 300 tpd of biosolids into renewable electricity, renewable natural gas (RNG), and fertilizer products. GHD is providing detailed design and permitting services for the construction of the 5.7-acre Facility, which includes two 3.5 million gallon high-solids anaerobic digesters, four combined heat and power (CHP) units (4.6 MWe), two dryers and a pyrolysis unit, as well as a 2-MWh battery bank and a microgrid controller. When complete in 2020, the Facility will be the largest food waste anaerobic digestion facility in the US.

Project Manager Integrated Solid Waste Management | French Agency for Development (AFD) | Samarkand, Uzbekistan | 2014 - 2017

Kim managed a dozen international experts and was involved in all aspects of the project to develop a Feasibility study & Pre operational studies for Integrated Solid Waste Management in Samarkand, Uzbekistan (450,000 people). The proposed project included:

- Waste collection and transport
 - Construction of 150+ waste collection points
 - Procurement of 2,000+ street containers
 - Procurement of 70 15-m³ waste collection trucks
 - Construction of vehicle maintenance facility
- · Waste disposal and recovery
 - Construction of a semi-mechanical material recovery facility (MRF) for pre-sorted recyclables (80 tons/day)
 - Closure of the existing dumpsite and construction of a new bioreactor landfill on a 46-hectare parcel of land



- Installation of landfill gas (LFG) collection system and CNG production unit for the fleet of waste trucks. The LFG unit will have the capacity to treat 700 Nm³/hr LFG.
- Soft components
 - Institutional support and capacity building
 - Public outreach and social inclusion

The studies/deliverables included:

- Waste characterization
- Environmental & Social Impact Assessment (ESIA), Environmental & Social Management Plan (ESMP)
- Site characterization, including geotechnical survey
- Economic and financial analysis
- Legal and regulatory analysis
- Detailed design
- Project operational and administrative manual
- Institutional analysis, capacity building and technical assistance plan

Project Manager

CDM PoA for Methane Reduction in the Swine sector in DR | United Nations Development Program (UNDP) | Dominican Republic | 2011 - 2012

Kim managed a team of international consultants to develop a feasibility study for a CDM Program of Activities (PoA) for methane capture and use through anaerobic digesters in the swine sector. The study included a detailed assessment of the swine sector in Dominican Republic; an evaluation of available and appropriate technologies for methane capture, treatment, use and measurement; recommendations on how to structure the PoA; and a pre-feasibility study in a selected swine farm.

Project Coordinator Improving Health Facilities Infrastructure (IHFI) | USAID | Haiti | 2011 - 2013

Kim helped coordinate IHFI's (Improving Health Facilities Infrastructure) activities in Haiti. The objective of IHFI work was to enhance energy services in critical health care facilities in support of the US Government's PEPFAR program. Activities included energy assessments, installation of battery backup systems with inverter-chargers, solar PV systems, and diesel generators, and capacity building efforts. Kim reviewed the energy assessments, organized half-a-dozen one-week training workshops for electrical technicians, and managed the production of a video documentary. The documentary, along with project documentation, is available on USAID's Powering Health website:

Other related areas of interest

Languages

French (native), English (fluent), Spanish (fluent)

Certifications

 EIT Certification - Environmental Engineer, Maryland Board, 2012

Publications and Presentations

- "Digesting Food Waste at Water Resource Recovery Facilities: The Goleta Sanitary District Pilot Project" co-presented with Jim Dunbar on February 24, 2020 at the Global Waste Management Symposium in Indian Wells, CA
- "Dry AD, HS Plug Flow, Wet AD How to Select your Anaerobic Digestion Technology?" co-presented with Steve Wilsey on July 17, 2019 at the EREF Summit on MSW Organics in San Francisco, CA
- "Resource Recovery Optimization at Rialto Bioenergy Facility" presented on May 6, 2019 at WasteExpo in Las Vegas, NV
- "Goleta Pilot Project Codigestion and Thermal Hydrolysis of Food Waste and Biosolids" copresented with J. Dunbar on April 10, 2019 at SWANA Western Regional Symposium in Yosemite, CA
- "Organic Waste Management California Case Studies" 3-hour session presented on May 3, 2018 with K. Muffels as part of a UCLA Extension Class on Case Studies and Best Management in the Solid Waste Management Industry (C&EE X 438.4)
- Co-instructor "Developing an agro-based biogas market: project development to operation" in April 2011 and April 2012 for international participants attending an IP3 training. IP3, the Institute for Public-Private Partnerships, is a Tetra Tech company.
- "Resource Assessment for Livestock and Agro-Industrial Wastes" available on GMI website www.globalmethane.org
- "CCS scenarios optimization by spatial multi-criteria analysis: Application to multiple source-sink matching in the Bohai Basin", proceedings of the 9th International Conference on Greenhouse Gas Control Technologies (GHGT9), Washington DC, 2008 (with Wenying. Chen, Y-M. Le Nindre, et al.)

Work history

| • | |
|----------------|---|
| 2017 – present | GHD, Irvine, CA |
| 2014 – 2017 | Naldeo, Lyon, France |
| 2009 – 2013 | Tetra Tech, Arlington, VA (formerly PA Government Services, Inc. part of PA Consulting Group) |
| 2007 – 2008 | BRGM (French Geological Survey), Beijing, China |



Jamal Awad, PhD, PE

Project Director



Education: PhD, Environmental Engineering, Marquette University; MS, Civil and Environmental Engineering, UW-Madison; BS, Civil Engineering, Louisiana Tech University. **Professional Registration:** Professional Engineer: California, Wisconsin, Illinois, Texas, Arizona

Connected: American Water Works Association; International UV Association-Americas Regional Vice President.

Professional Qualifications: Dr. Awad has over 25 years of experience with extensive experience in water quality, water treatment planning and engineering. Jamal is sought after nationally to support creative implementation of engineering solutions and innovative technologies assessments. Jamal collaborated with California DDW in implementing technical engineering solutions and rating of a number of treatment plants including the Perris WFP detailed operating permit for the UV (the first in California for primary disinfection) and the UF processes.

Project Manager | Carbon Canyon Water Recycling Facility - Asset Management and Improvements Pkg III | IEUA | Chino, CA

Currently managing preliminary designs and completing the detailed design for the following improvements: Replace Leaky Influent and Effluent Tertiary Filter Weirs; New Flocculation Basin Overflow Weir; Demolish Abandoned Chlorine Disinfection System; Replace Filter LCP with a new PLC and integrate to SCADA; Refurbish Corroded Monorails; Refurbish and/or Replace Filter Backwash Troughs; Refurbish or Replace Cast Iron Tertiary Filter Gates; Extend Concrete Lining at the Emergency Storage Lagoon; New Flow Meters at the CCB; Increase Reliability of Plant Utility Water System; Replace Drain Valves and Plug Valves at CCB and Tertiary Filters.

The project was launched by IEUA to improve the CCWRF performance based on input from Operations, Maintenance, Engineering, O&M Documents, and Asset Management Plans.

Project Manager | Engineering Design Guidelines | IEUA | Chino, CA

Managed the development of the Engineering Design Guidelines to communicate design preferences of the Inland Empire Utilities Agency (IEUA) to its consulting engineers/designers to improve consistency and efficiency of project deliveries. Significant workshops and staff interactions were utilized to build consensus regarding Guidelines format.

The Guidelines were developed in tabulated forms to improve their read and ease of future modifications and/or additions. The level of completeness and usefulness of these Guidelines will improve with their use and updates. The level of details included in the Guidelines was targeted to the 30-percent design level. The tabulated format will be helpful to incorporate into Preliminary Design/Basis of Design documents. The level of details/requirements were developed with emphasis on

technical areas that are common sources of inconsistencies during designs.

Project Manager | 3A Water Recycling Plant Owner Engineering Services | Moulton Niguel Water District | Lakewood, CA

Curently managing the Moulton Niguel Water District 3A Water Recycling Plant Improvement/Upgrade Projects. GHD is providing Owner Engineering services for plant rehabilitations and replacements required to reliably meeting its rated capacity of 6 mgd. Initial efforts are focusing on facility condition assessments; project definitions; budgetary cost estimations; and prioritizing of plant improvements. Major improvements to the plant include equipment rehabilitation, process optimization, development of standard operating procedures and enhancements, technology evaluations, and site subsidence mitigation. GHD is working on developing RFPs for improvements and upgrades to the solids and liquid treatment train processes including initial technology assessments and evaluations of alternatives to better define design efforts for the required improvements/upgrades. GHD efforts include guiding design efforts to be performed by others and reviewing all submittals for these improvements/upgrades. The total construction cost for the plant rehabilitations and replacements is estimated to be in the order of \$15M.

Deputy Project Manager, Owner Engineer | GRIP AWTF | Water Replenishment District of Southern California | Lakewood, CA

Technical Services Lead as the Owner Engineer for the Water Replenishment District of Southern California's (WRD's) GRIP Advanced Water Treatment Facility (AWTF). The AWTF, with an initial capacity of 12 mgd and a maximum capacity of approximately 25 mgd, will treat tertiary effluent from the LACSD using microfiltration (MF) and reverse osmosis (RO) followed by ultraviolet advanced oxidation (UVAOP). Effluent from the AWTF



will be used for groundwater recharge of local drinking water supply. The initial phase is expected be online in 2018, and it will achieve a significant milestone for WRD's water independence from imported water. Alternative Project Delivery is being used to implement the AWTF with an estimated construction value of \$100 millions.

As the Owner Engineer for the project, GHD is preparing all contractual and engineering documents for the selection of the Design-Build (DB) Entity. The engineering documents establish the technical and design requirements with enough details for the DB Entity to develop a guaranteed maximum price (GMP) for the proposed project. The design requirements cover both the design/construction and the 4-year Transition Operation Period to be performed by the DB Entity.

Project Manager

Lenain WTP Master Plan and Asset Management | Utilities Department | Anaheim, CA

Developed comprehensive Facility Master Plan including cost and schedule for the replacement and rehabilitation (R & R) of facilities as well as expansion of the LWTP from 15 to 20-22 mgd. Performed significant treatment optimization studies and optimization including Jar testing of various coagulants and hydraulic assessments of plant and distribution system. Established the **Asset**Management framework for the City and implementing the framework at the LWTP. Performed detailed facility condition assessments at the plant and consequence analyses. The project includes significant pipe treated water pipe modifications to allow the delivery of the additional treated capacity into the distribution system.

Completed the preliminary and final designs for the selected improvements and assisted in the bidding and Contractor selection. Currently providing engineering services during construction and specialty inspection/resident engineering and startup/commissioning services. Construction of the \$15M improvements was completed at the end of 2019.

Technical Director

Wastewater Treatment Plant Master Plan | City of Crystal Lake | Crystal Lake, IL

Technical director for the 20-year Wastewater Treatment Master Plan developed for the City of Crystal Lake to evaluate operations and perform condition assessments of the two wastewater treatment plants that resulted in a capital improvement plan (CIP). Developed a creative project approach to enhance client interaction and reduce cost. The approach was centered around **co-locating consultant and client team members** during the project's early stage to achieve effective communications and consensus building. **A 1-week long session was structured similar to VE efforts** with all needed skills to reach consensus regarding all project critical aspects.

Other related areas of interest

Distinguished Qualifications

- Water Sector Manager, Construction Manager for USAID West Bank's program's including multiple projects with a construction value of approximately \$80M throughout West Bank.
- Program Manager and Technical Lead -USAID's \$10M (engineering fee) Vertical Structures Program in Afghanistan. Lead a team of engineers, architects, and construction technical support to the planning, design, and construction of numerous public buildings.
- Design Review Team Lead Lead a team of multi-discipline engineers to perform detailed design reviews of the Lesotho's Metolong Water Works basis of design and design/build contract documents for the City of Maseru, a Millennium Challenge Corporation (MCC) financed project.
- Member of the Blue Ribbon Panel that assisted the California Department of Public Health in the development of guidelines for Title 22 UV disinfection criteria
- Past Chair of the Water Quality Division, AWWA California-Nevada Section.
- Technical Consultant for AWWARF Research Advisory Council on 2003 Project Funding.
- Water Quality Manager for the Long Beach Water Department (34th largest City in the US).

Awards

- AWWA CA-NV Section; 1998 Chair's Award for dedication and leadership in providing ongoing training to Section members
- AWWA CA-NV Section; 2002 Section's Service Award for service as Water Quality Chair

Work history

| 2014 – present | GHD, Irvine, CA |
|----------------|--|
| 2011 – 2013 | HR Green, McHenry, IL |
| 2007 - 2011 | MWH (now Stantec), Chicago, IL |
| 1989 - 2007 | CH2M HILL (now Jacobs), Santa Ana, CA and Chicago, IL |



Kyle Muffels, PEng

Condition Assessment Lead



Qualified: B.A.Sc. Environmental Civil Engineering, Management Sciences Option, University of Waterloo, Ontario, Canada, 2007

Connected: Registered Professional Engineer: Ontario, Canada

Professional Summary: Kyle has been a project manager, design manager, and design engineer for several state-of-the-art waste processing facilities representing over \$650 million of capital improvements involving generation of over 35 MWe of renewable energy, and which diverts approximately 785,000 tons of organic materials from landfills each year.

Alternative Waste Management

Project Advisor Sterlings Natural Resource Center | Confidential | California | 2020 - present

The Sterling Natural Resource Center (SNRC) will be a state-of-the-art facility that will provide a sustainable new water supply to boost the region's water independence. GHD is retained to provide a design peer review of the Co-Digestion and Combined Heat and Power (CHP) sections of the plant.

Project Manager Bioenergy Facility | Confidential | California | 2017 - present

GHD is part of the design build team for the Rialto Bioenergy Facility (RBF), a resource recovery facility that will convert up to 1,080 tons per day of organic material into valuable renewable resources on a 5.7 acre of heavy industrial land. Feedstocks will include preprocessed food waste slurry and biosolids. The final products generated through anaerobic digestion (AD) and pyrolysis processes will be renewable natural gas (RNG) injected into pipeline, combined heat and power (CHP) for onsite uses and export to the grid, as well as a nutrient rich biochar.

Project / Design Manager Waste Transfer and Material Recycling Facility | Confidential | Los Angeles | 2017 - present

The project consists of site and facility development of a 5,000-ton per day waste transfer/processing facility on a 14-acre parcel of land. GHD is responsible for analysis of all material handling, pre-processing, detailed design activity involving civil architecture structural mechanical electrical, and permit assistance. GHD is the design entity of the design build project delivery model, responsible for all structural, mechanical-plumbing, mechanical-ventilation, electrical, fire, and architectural disciplines.

Of note, the TS and MRF facility will include an area with associated equipment to handle AB 1826 food waste

material and conform to all the local and state requirements for liquids and material handling.

Technical Engineer

Skid Mounted Mobile Pilot/ Education Unit for Source Separated Organics Processing with Cogeneration Capabilities | Confidential | Santa Barbara County, CA | 2018 - present

As part of this assignment, GHD will be coordinating and interpreting all the various technical data reported to the California Energy Commission. This involves preparing technical reports involving measurement and verification plans for the process, assisting with testing and commissioning plans, and liaison with suppliers, builders, and plant management for the overall implementation of the system.

Project Manager Various | Confidential | 2013 - present

Biosolids Management Facility, Northern California, Fairfield-Suisan, US, 2015 - present

Facilitate engineering services for the conversion of an existing Sludge Management Building and Chemical Storage Building located at the area's wastewater treatment plant into a Biosolids Management Facility; capable of stabilizing the site's 12,000 wet tonnes of biosolids material initially, with incremental staging of the plant to process regional organic waste materials up to 150,000 wet tonnes at full capacity. Highlights of the work activity involve managing a multidisciplinary team across several US offices to provide one centralized deliverable accustomed to the client.

In 2018, the client expanded its operation with additional material receiving facilities and chemical storage tanks.

Biosolids Processing Facility, Ontario, Canada, 2016 to present

Our client entered into a Design, Build, and Transfer Contract for the processing of biosolids into a federally registered fertilizer product at a waste water treatment plant. GHD will perform as prime project and design



engineer for the construction of the 15,000 wet tonnes biosolids process facility, involving all engineering disciplines and environmental studies concerning air, noise, water, and land.

Design Service Various | Confidential | 2009 - 2016

Source-Separated Organics (SSO) Processing Facility, Calgary, Canada, 2013 - 2014

GHD was retained by our client to be the primary design entity for bid of the 30-year design, build, own, operate contract for an SSO composting facility accepting 100,000 tonnes of SSO material, and 40,000 tonnes of biosolids material each year from the City of Calgary. Kyle was responsible for preliminary design services of the site and facility layout, including conformance with applicable regulatory and City requirements.

Source-Separated Organics (SSO) Processing Facility, Ontario, Canada, 2011 - 2013

Provided design services for the in vessel aerobic processing facility. The facility is sized to accept up to 150,000 tonnes of SSO material. Activities consisted of assistance with engineering design, construction inspection and coordination of work to obtain site plan approvals, building permits, and construction specifications for projects.

Source-Separated Organics (SSO) Processing Facility, Ontario, Canada, 2009 - 2012

Scope consisted of design services for the in vessel aerobic processing facility. The facility is sized to accept up to 150,000 tonnes of SSO material. Activities consisted of assistance with engineering design, construction inspection and coordination of work to obtain site plan approvals, building permits, and construction specifications for projects that included: 60-metre stack construction and associated duct supports, various expansions and modifications to the odour control ductwork, industrial air cooling system, connection to City potable water supply, connection to municipal sanitary sewer system, 300-cubic-metre concrete liquid holding tank, and selection and sizing of various liquid pump systems.

Project Manager RP-1 Digester 6&7 Roof Repairs | Confidential | San Bernardino, US | 2017 - present

As part of this project, GHD's multidiscipline team provides condition assessment of two 1.5M-gallon digester tanks, including performance evaluation of the existing gas and sludge recirculation systems. GHD is providing engineering and design service and support during construction.

Aspects of the capital improvement include demolition and salvage of a complete inventory of interior and exterior components, refurbishing all interior pipe and pipe-support components, applying new interior negative seals, applying new exterior positive seals including insulation,

and redesigning all new stainless steel gas recirculation and withdrawal piping systems, as well as glass-lined ductile iron pipe sludge feed lines to the digester roof.

Other related areas of interest

Affiliations

 Solid Waste Association of North American Southern California Chapter Member



- Fuels and Appliances Strategic Steering Committee
- CSA B149 Code Subcommittee
- Design-Build Institute of America



Recognized

 OSHA 40-Hour Hazardous Waste Worker, Refresher. 2019

Papers Presented and Published in Conference Proceedings

- "Modeling the Potential Impact of Diversion of Organic Material From Landfill Sites on the Production of Landfill Gas" presented at the Solid Waste Association of North America's 33rd Annual Landfill Gas Symposium, March 8-11, 2010, San Diego, California (with L. Griffith, T. Gidda, R. Mosher)
- "What Works. Ten Years of Odor Control Evolution in the (Food- and Source Separated Organic -) Waste Processing Industry" presented at the 2018 Global Waste Management Symposium, Indian Wells. California.
- "Rialto Bioenergy Facility Resource Recovery Optimization" presented at the 48th Annual SWANA Regional Symposium, April 10, 2019, Yosemite, CA.
- "Integrating Advanced Pyrolysis & Anaerobic Digestion at Rialto Bioenergy Facility" presented at the 2019 Waste Expo, Las Vegas, CA.
- "Landfill Gas Upgrading to CNG and RNG", presented at the 2020 Global Waste Management Symposium, February 25, 2020.

Work history

2005 - present

GHD, Irvine, CA (named Associated 2019)



Charles E. Smith, AICP

Regulatory Approval & Permit Lead Environmental Review & CEQA Support



Qualified: MPI, Urban and Regional Planning, University of Southern California; BS, Business Administration, University of Southern California

Connected: USC Price School Alumni Association Board of Directors; American Planning Association - Orange Section; US Green Building Council

Professional Summary: Charles Smith, AICP, LEED AP BD+C, has over 25 years of experience in environmental impact assessment services for planning, development, and public works infrastructure projects. He has held leadership roles in project/program management, operations management, business development, and corporate programs in education/professional development. Charles' professional interests include CEQA/NEPA compliance, land use planning, sustainable development, and historic preservation, with a geographic focus on Southern California and the western U.S. He has extensive experience managing large as-needed contracts for public agencies.

Program Management / On-Call Services / Master Service Agreements

Supervisor/Administrator Project Management I & II Divisions, On-Call Environmental Services | Los Angeles County Department of Public Works | Los Angeles County, CA

Charles managed the as-needed environmental services under an on-call contract with the Los Angeles County Department of Public Works, Project Management I & II Divisions from 2015-2018. The scope of work comprised document preparation in accordance with CEQA and NEPA; field, literature, and electronic database reviews; technical studies; public meeting support; and regulatory permitting activities including preparation of permit applications, field activities, and regulatory agency coordination. Projects principally involved vertical development, and included health care facilities, green infrastructure, a sheriff station, and biological and cultural resources studies.

Project Director On-Call Environmental Services | Los Angeles Department of Water and Power | Los Angeles, CA

Charles was responsible for overall client satisfaction, budget, schedule and quality control, and staffing for multiple \$1.5M on-call environmental services contracts with LADWP. He successfully managed over 20 task orders that addressed a broad range of projects, including water resources, energy, coastal/land use permitting, restoration plans, and land management. Projects included technical studies for the Scattergood-Olympic electrical transmission line, a CEQA IS for Owens Gorge, and various biological and cultural resources studies. Charles also managed over 25 task orders under two prior contracts with LADWP.

Water Resources

Project Manager Recycled Water Master Plan EIR | City of Riverside Public Utilities Department | Riverside, CA

Charles managed an EIR to address the potential environmental impacts associated with the City of Riverside's proposed recycled water system infrastructure program. Key environmental issues were water rights, storage, and diversion from the Santa Ana River, as well as biological and cultural resources impacts associated with program implementation. Charles worked alongside the City and their legal counsel, Best Best & Krieger, to craft project and alternatives descriptions that were technically accurate and legally defensible.

Project Manager La Brea Subarea Well and Transmission Main IS/MND | City of Beverly Hills | Beverly Hills, CA

The project involved preparation of an IS/MND for a groundwater production well and pipeline connecting to a water treatment plant, located in the City of Beverly Hills. The well would be sited in a residential neighborhood, and the pipeline would be constructed along urbanized La Cienega Boulevard adjacent to the City of Los Angeles. An extensive public outreach effort was implemented to ensure that local residents are aware of potential temporary traffic impacts during pipeline construction.

Project Director

Los Angeles County Department of Public Works, Roosevelt Park Stormwater Capture Project IS/MND, Los Angeles, CA

The project involved preparation of an IS/MND for the Roosevelt Park stormwater capture project, located in the Florence-Graham portion of the City of Los Angeles. The CEQA document tiered off of an Enhanced Watershed Management Program EIR, addressing potential environmental impacts associated with storm drain diversions and related improvements to Franklin D.



Roosevelt Park. Key issues included water quality, groundwater and soil management, construction noise, nighttime lighting, and recreation.

Project Director

Los Angeles County Department of Public Works, Avenue K Transmission Water Main Phase IV CEQA Addendum, Lancaster, CA

Charles managed CEQA documentation in support of the Avenue K Transmission Water Main Phase IV project, located in Lancaster. The documentation included a CEQA addendum, technical studies (biological resources, cultural resources, and air quality), and a State Revolving Fund (SRF) Loan Application Environmental Package. Facility improvements may be funded in part through the California Clean Water SRF, which is partially funded through the EPA and is subject to federal environmental regulations, including the ESA, NHPA, and General Conformity Rule for the CAA.

Land Use Planning and Development

Project Manager

Rancho Los Amigos South Campus EIR | Los Angeles County CEO and Department of Public Works | Downey, CA

Charles managed the as-needed environmental services under an on-call contract with the Los Angeles County Department of Public Works, Project Management I & II Divisions from 2015-2018. The scope of work comprised document preparation in accordance with CEQA and NEPA; field, literature, and electronic database reviews; technical studies; public meeting support; and regulatory permitting activities including preparation of permit applications, field activities, and regulatory agency coordination. Projects principally involved vertical development, and included health care facilities, green infrastructure, a sheriff station, and biological and cultural resources studies.

Project Manager General Plan/Coastal Land Use Plan EIR and Supplemental EIR | City of Goleta | Goleta, CA

Charles managed the EIR for the City of Goleta's first general plan/coastal land use plan, as well as a supplemental EIR for revisions to the plan. Upon incorporation, the City conducted an extensive public involvement program to solicit input on alternative planning scenarios. Charles managed the preparation of the draft and final EIRs, including project and alternatives descriptions, setting and impact analyses for all applicable environmental disciplines, and mitigation measures to reduce potentially significant impacts. He provided public hearing support to the Planning Agency and City Council, and led consultant team responses to over 950 comments on the draft EIR within a compressed timeframe.

Transportation

Project Director

California High-Speed Train Project from Los Angeles to Anaheim EIS/EIR | California High-Speed Rail Authority/STV Inc. | Los Angeles and Orange Counties, CA

The project involved CEQA/NEPA environmental documentation and permitting for the statewide high speed train segment between Los Angeles and Anaheim. Key environmental issues included right-of-way, aesthetics, noise/vibration, traffic, historic resources, and community involvement. In his role as Project Director, Charles performed principal coordination with the engineering prime (STV), leadership of the ICF project team, contract and budget management, and overall project delivery.

Energy

Project Manager Harquahala Generating Project NEPA Compliance | PG&E National Energy Group | Maricopa County, AZ

Charles managed the preparation of a NEPA EA for construction and operation of a 19-mile electrical transmission line west of Phoenix. He provided technical support to general plan amendment and special use permit applications, and key staff coordination with the BLM.

Other related areas of interest

Recognized (Certifications/Trainings)

- American Institute of Certified Planners, No. 011766
- LEED AP BD+C, US Green Building Council

Awards

 Planner Emeritus Network (PEN) Award of Honor, American Planning Association (APA) California



Hector Ruiz, PE

Business Case Evaluation Lead



Education: Master of Science, Civil and Environmental Engineering and Science, Stanford University; Bachelor of Science, Civil Engineering, California State Polytechnic University, Pomona

Licenses/Registration: Professional Engineer: California (C-55245)

Memberships/Affiliations: American Water Works Association; California Water Environment Association; CA NV Engineering Division Chair

Professional Qualifications: Hector has more than 25 years' experience in water and wastewater engineering and management, including design, construction, and operation of improvement and upgrades to water booster pump stations, lift stations, pressure reducing stations, water distribution and transmission mains, gravity sewer mains, and sewage force mains. Hector's experience with water and wastewater systems includes working side-by-side with maintenance and operations personnel on the upgrade, retrofit, condition assessment, and

replacement of an agency's vertical and horizontal assets. Hector's experience in the public sector includes the oversight and management of water and wastewater treatment personnel and facilities for a public agency in South Orange County. As a former head of engineering and as a general manager of a public agency, Hector brings the experience of having worked for many years with water and wastewater operators and maintenance technicians in effectively planning and managing the rehabilitation, upgrade, and replacement of an agency's assets, and as such, understands the value of asset management from an owner's perspective.

Asset Management

Hector experience includes direct oversight and overall responsibility for the management of assets for a public utility's water/wastewater/recycled water facilities and infrastructure including a wastewater treatment and recycling plant, a surface water treatment plant, a groundwater treatment plant, several miles of water transmission and distribution mains, several miles of gravity and force mains, water and sewerage pump stations, water storage reservoirs, and various pressure reducing stations and two open reservoirs with earthen dams.

Hector brings this background and experience to implementing many components of asset management, including the following:

- Strategic Plans and Roadmap Development
- Asset Management Gap Assessments
- Risk Based Project Prioritization for Capital Improvement Program (CIP) Development
- Conducting Business Case Evaluations (BCE) for treatment facilities and systems
- Developing Condition Assessment Protocols and Evaluation of Alternatives

In application of Asset Management at various public agencies, Hector works closely with planning and engineering staff in the preparation of projects for inclusion in the agency's annual budget and capital improvement program (CIP).

Project Management and Engineering

Hector has managed several water and wastewater projects, and led project teams with varying staff levels and subconsultants. Hector's Project Management and engineering experience includes:

Wastewater Treatment.

Performed various design and construction management services for upgrades, expansions, and rehabilitation projects to wastewater facilities in Southern California and Arizona. Projects included rehabilitation and expansion of unit treatment facilities and pump stations. Various plant improvements included:

- Upgrades and modifications of activated sludge reactors with selector zones (anaerobic or anoxic), hydraulic capacity, and nitrogen removal
- increasing treatment and hydraulic capacity of unit treatment processes
- primary clarifier scum and sludge removal
- application of protective coatings for corrosion control
- odor control system design including odor scrubber and odorous air collection and conveyance piping
- primary and secondary clarifier effluent weir and launder rehabilitation
- primary clarifier inlet slide gate design for flow control and flow distribution
- enhanced primary treatment with ferric and alum chloride



- raw wastewater flow metering
- aeration system improvements including new aerators, blowers, and air flow piping and metering
- secondary circular clarifier design
- RAS/WAS pump station design
- Centrifuge solids dewatering system design
- <u>Sewer System Projects</u>. Project management and engineering for the design and rehabilitation of major sewer gravity trunk lines and force mains, including use of HDPE pipe. Trunk line sizes ranged from 16-inch to 27-inch diameter. Rehabilitation projects for gravity sewer mains ranging from 14-inch through 22-inches and force mains of up to 12-inches. Rehabilitation technology included HDPE force main designs, bridge crossings, and creek crossings requiring significant permitting and approval by various local, state, and federal agencies.
- Water Treatment Projects. Design Engineering and Operations of a groundwater treatment facility including pilot and full-scale operation, testing, and maintenance of various unit treatment process including ozone, conventional treatment technologies, dissolved air flotation, GAC, and membranes.
- <u>Recycled Water Treatment Projects</u>. Master planning and evaluation for the expansion of water reclamation facilities, including facilities with reverses osmosis, lime saturation for pH control, concentrate disposal, and micro-filtration of secondary effluent.
- <u>Design/Build Experience</u>. Lead project and process engineer for Design Build improvements to various wastewater and recycled water facilities. As the prime contractor, worked directly with the mechanical, electrical, and controls subcontractors, and vendors in construction of the various plant upgrades and improvements.

Operations Management Experience

Hector has worked on projects that involved hands on operation of facilities at a pilot scale and full scale level. Hector's operation's experience includes:

Wastewater Treatment Facility Operations and Testing

Multiple field tests of treatment systems to evaluate performance and opportunities for expansion or process optimization including:

- Aeration system off-gas testing and analysis
- Biological nitrogen removal
- Nitrification rates and system performance in activated sludge systems
- · Primary and secondary clarifier stress testing

Water Treatment Plant Operations

Lead Operator for groundwater treatment facility that evaluated pilot and full-scale operation, testing, and maintenance of various unit treatment process including ozone, conventional treatment technologies, dissolved air flotation, deep bed filtration, direct filtration, GAC, ion-exchange resins, microfiltration, and membranes.

Brine Concentrate Operations Optimization

Evaluation of membrane system recovery through the collection and treatment of concentrate. The project increased treatment capacity and recovery while decreasing discharge of flows to the sewer resulting in significant costs savings. Work included developing design and operational criteria for new membrane treatment train, operations test protocols, and operator training. Training including the proper evaluation, cleaning, loading and unloading of ultra-filtration membranes. Standard operating procedures (SOP) and training video for use by operators was also developed.



Frederick Tack, PE, PACP, M.ASCE

Digester Condition Assessment Specialist



Qualified: Bachelor of Science in Engineering (B.S.E.), Civil Engineering; Minor in Urban & Environmental Planning, Arizona State University

Connected: Professional Civil Engineering, Arizona #53976, Colorado #52036; ADEQ Wastewater Treatment Plant Operator, Grade 4; ADEQ Water Treatment Plant Operator, Grade 4; ADEQ Water Treatment Plant Operator, Grade 4; ADEQ Water Distribution System Operator, Grade 4; NASSCO Certified Pipe Assessment, PACP, MACP, LACP, #U-913-19133; Registered Safety Assessment Evaluator and Coordinator – California Governor's Office of Emergency Services (Cal OES) #76496; Certified EnvisionTM Sustainability Professional – Institute for Sustainable Infrastructure; OSHA 30-Hour Occupational Safety and Health in Construction #OEC-7004401; Confined Space 8-hour certification, Supervisor, Attendant and Entrant

Professional Summary: Frederick has been with GHD for six years and offers over 16 years of experience focusing on the engineering planning, design, rehabilitation and

operation water and wastewater treatment and conveyance systems, environmental planning and permitting, and asset management across the U.S. Southwest. Additionally, Frederick is a certified water and wastewater treatment plant operator, and supports the operations, maintenance and optimization of water and wastewater facilities. He is a field-to-finish, multi-discipline professional and will apply his experience and unique knowledge gained from leading similar capital improvement projects to provide a comprehensive and holistic approach to planning, designing and rehabilitation process.

Wastewater Treatment

Project Manager/Technical Lead 91st Avenue WWTP Digester 1 Condition Assessment and Scanning, and Digester 2 Scanning | Phoenix, AZ | 2016 - 2017

GHD was contracted through the JOC contractor for the City to complete structural evaluations of the concrete walls and floor and the interior and exterior of the steel dome on Digester 1, and to identify the extent and magnitude of recommended structural repair, rehabilitation or replacement. Those recommendations were evaluated with the previous structural evaluation and condition assessments as completed by GHD for the Digester 12 dome, for prioritization of repair or replacement, GHD prepared and posted a confined space entry permit and prepared a confined space entry plan, pre-entry checklist, and entry authorization in addition to a Hazard Action Response Plan. GHD worked directly with the City JOC contractor to develop and implement the scaffolding, lighting and ventilation systems necessary to efficiently and safely execute the inspections. A multi-pronged approach was developed to meet the technical components of the evaluation as economically as possible. This included an Ultra-Sonic Thickness (UT) Survey, visual inspections, and manual measurements of the structure and condition. The UT survey was utilized to reveal the remaining thickness of the steel plates and members without any intrusive damage. The UT survey inspection consisted of measuring the thickness of the steel plating on a 3-foot by 3-foot grid, over the entire interior surface, which yielded 1,083 points of inspection. The structural member measurements were confirmed with hand measurements.

Project Manager/Technical Lead 91st Avenue WWTP Digester #11 Rehab and Dome Replacement and Digester #11, #10, and #12 Condition Assessment and Evaluation; Project Manager, City of Phoenix | Phoenix, AZ | 2011 - 2016

This project consisted of a condition assessment of the concrete and steel structures and related appurtenances of Digester #10, #11, and #12 at the 91st Ave. WWTP. This included reviewing plant as-builts and meeting with plant staff to discuss concerns with the pertinent plant components, and the survey and 3D-scanning of Digester #11 and the surrounding facilities. Additionally GHD conducted closed-circuit video of the associated process piping. Those findings were used to assess the condition of the infrastructure and provide the recommendations for the rehabilitation. The process included preparing plans, specifications and an engineer's cost estimate for the rehabilitation of the concrete structure and replacement of the steel dome. The project also included CA&I services. Prior to and during the construction phase of the project, Frederick coordinated with plant staff and contractors and led the development of the maintenance of plant operations (MOPO) for the improvements. He demonstrated the comprehension of the MOPO perspectives from the Owner/Operator where focus is on compliance, operational control, SCADA and electrical systems and safety of staff, to the Contractor's perspective on risk mitigation, timeline and sequencing for component install and start-up and the Consultant's perspective of performance, stability and execution.



Project Manager/Technical Lead 91st Avenue WWTP Digester 10 Rehabilitation and Dome Replacement | Phoenix, AZ | 2015

This project consisted of the rehabilitation and dome replacement of a 1.2 mgd, above ground concrete tank. The existing tank was 96 feet in diameter and 30 feet tall, with fixed steel cover. The project steps followed the same progression as identified for the Digester 11 project described above and included preparing plans, specifications and an engineer's cost estimate. This design and construction was executed through the City's JOC program. The project included CA&I services.

91st Avenue WWTP Digester 11 Rehabilitation and Dome Replacement, and Digester 10, 11, and 12 Condition Assessment and Evaluation | Phoenix, AZ | 2011 - 2016

This project consisted of a condition assessment of the concrete and steel structures and related appurtenances of Digester 10, 11, and 12 at the 91st Avenue WWTP. This included reviewing plant as-builts and meeting with plant staff to discuss concerns with the pertinent plant components, and the survey and 3D scanning of Digester 11 and surrounding facilities. Additionally, GHD conducted closed-circuit video of the associated process piping. Those findings were used to assess the condition of the infrastructure and provide the recommendations for rehabilitation. The process included preparing plans, specifications and an engineer's cost estimate for the rehabilitation of the concrete structure and replacement of the steel dome. This project included CA&I services and specialty structural inspections, start-up and commissioning. WCE was also a part of the GHD team on this project and participated in a portion of the design and CA&I.

91st Avenue WWTP Digester 1 Design and CA&I | Phoenix, AZ | 2016

This project consists of the rehabilitation and dome replacement Digester 1. The project steps followed the same progression as identified for the Digester 11 and 10 described above and included preparing plans, specifications and an engineer's cost estimate. This design and construction was executed through the City's JOC program. Similar to the Digester 11 and 10 projects, WCE is a part of the GHD team and participated in the design and is supporting CA&I. Also, Amec completed the welding inspections.

Technical Lead

RP-1 Digester 6 &7 Roof Repairs | Inland Empire Utilities Agency | Ontario, CA | 2017

Frederick was responsible for leading the civil, mechanical, process, and structural assessments for the rehabilitation of both digesters. GHD was responsible for the evaluation and repair recommendations relating to the existing concrete roofs, mechanical systems, and gas mixing systems for two Digesters at the RP-1 wastewater treatment plant. Each

Digester is a 40-foot tall, 100-foot diameter reinforced concrete structure, with flat concrete roofs. GHD efforts included topographic surveys and as-built mechanical surveys, structural assessments, gas take-off quality and quantity evaluations, vibration analysis, and coating evaluations. GHD prepared rehabilitation recommendations for the complete reconditioning of the roofs and mechanical systems for both digesters.

Other related areas of interest

Awards and Honors

- AZ Water Association 2016 Engineer of the Year.
 Awarded for contribution to the AZ Water Association,
 AWWA, WEF and for contributing to the Water Industry |
 2016
- AZ Water Association 2017 Project of the Year - Wastewater Treatment: City of Phoenix 91st Ave. WWTP Digester 1 Rehabilitation
- ACEC Arizona 2017 Grand Award EPCOR Bell Road Forcemain Improvements
- Water & Waste Digester 2017 Top Project City of Phoenix 91st Ave. WWTP Digester 1 Rehabilitation
- Water & Waste Digester 2017 Top Project EPCOR Bell Road Forcemain Improvements
- Tonopah Award. ASCE Arizona Society award for associate member judged to have provided outstanding service | 2012.
- Outstanding Leadership & Service Award. ASU Civil, Environmental and Sustainable Engineering Department (CESE) | 2011
- SUN Award. Serving University Needs. Employee Award. Capital Programs Management (ASU) | 2011.
- GHD Spotlight Young Professional. GHD Inaugural Western Operating Center Spotlight Young Professional. | 4/2012.

Work history

| 2011 – present | GHD Inc., Phoenix, AZ |
|----------------|--------------------------|
| 2009 – 2011 | Arizona State University |
| 2001 – 2009 | DZ Engineering, Inc. |



Mohamed Ibrahim, CHMM

Material Classification Specialist



Qualified: Master of Science Environmental Management (MSEM), 2006; Bachelor of Arts Biological Science (BA), 2003

Connected: Certified Hazardous Material Manager (CHMM)

Professional Summary: Mohamed has over 19 years in the environmental field in various applications from public to the private sector. Support included quality assurance, control, and management over various environmental liabilities projects including identifying, investigating, managing, mitigating, and monitoring from chemical, physical, and radiological impacts. Mohamed's most recent employment includes supporting multiple large private oil and gas & railroad clients in waste management, including profile generation, manifesting, TSDF/transporter coordination and reporting. Mohamed also possess effective procedure development having assisting his current client in development of such, targeted communication, good organization, and excellent people skills, including training both client and company staff.

Waste Coordinator Various Oil and Gas & Railroad Companies | Sacramento, CA

Manage various environmental waste generation streams and ensure compliance with federal, state, and local regulations across various US states. Supervises and plans activities of waste coordination activities including: waste classification by determining sampling requirements for profiling waste, and complying with the Treatment Storage Disposal Facilities (TSDF) waste acceptance criteria. Includes TSDF and waste transporter coordination. Support can include:

- Provide subject matter expert guidance for regulatory guidance, document reviews, and reporting for compliance with Resource Conservation and Recovery Act, Department of Transportation, and various State Regulations, associated with waste.
- Prepares shipping documents (Manifests, and/or Bills of Lading (BOLs), labels, and Land Disposal Restriction (LDR) Shipment notifications.
- Serves as a delegate of authority on behalf of clients for performing pre ship inspections and signing manifests. Maintains pre-established standards for safety and environmental issues.
- Proficient in using client licensed Essential Suites and former CRA proprietary waste database systems for appropriate shipping paperwork preparation (bill of lading, manifest, etc.), waste shipment tracking, project management and compliance assurance task verification.

Environmental Project Manager Project | SAIC | Sacramento, CA

Work closely with the local Program Manager and Senior Project Managers, supporting a large private oil and gas client identify, investigate, manage, mitigate, and monitor numerous environmental liabilities associated with historic crude oil pipelines that extend from the San Francisco Bay Area through the southern San Joaquin Valley. Support included:

- Perform and manage soil and groundwater site investigations and risk-based corrective actions.
- Prepare cost proposals, review, and approve invoices.
- Manage subcontractors, including drillers, utility locators, surveyors, and waste haulers.
- Prepare site investigation work plans and reports for soil and groundwater investigations.
- Perform Environmental Screening Evaluations.
- Monitor, evaluate, and improve project execution, financial performance, and safety stewardship.
- Comply with SAIC and client Environmental Compliance and Health & Safety programs.
- Perform environmental, health & safety, and quality assurance assessments of field operations.
- Share lessons learned and constantly strive for ways to improve performance.
- Manage portfolio investigation derived waste as necessary including, profile generations, manifest review, invoicing, and reporting. Includes TSDF and waste transporter coordination.

Senior Project Manager Stormwater and Groundwater Treatment, and Sludge Dewatering Project | Loomis, CA

Managed various stormwater and groundwater treatment, and sludge dewatering projects from initial conception, bid/proposal phase, through field execution. For various clients ranging from construction, environmental, and engineering firms.

 Managed project opportunities from initial conceptualization and bid/proposal phase through field execution.



- Developed and maintained relationships with appropriate governing agencies and clients.
- Tracked costs and final invoicing.
- Devised technical solutions, identified and assembled required resources, and managed scope, schedule and cost in accordance with contract parameters.
- Organized, coordinated, and performed field monitoring activities.
- Write concise technical reports and documents submitted to local regulatory authorities.
- Directly managed and mentored Water Treatment Technicians.

Associate Scientist Former McClellan Air Force Base | Air Force Real Property Agency | McClellan, CA

Provided sampling, monitoring, and radiological analysis utilizing various alpha, beta, and gamma instrumentations, detectors, and analyzers as governed by MARSSIM project design. Projects include support to Air Force Real Property Agency (AFPRA) for the Sanitary Sewer upgrade project, the Basewide Remedial Investigation, and Airfield Remedial Investigation. Work helps define and delineate Installation Restoration Program (IRP) project sites.

Project Manager AFCEE Field Team (Internship)

Former McClellan Air Force Base | Air Force Real Property Agency | McClellan, CA

Provided field oversight over various Air Force investigation projects (i.e., groundwater/soil drilling and sampling) and environmental infrastructures (i.e., firebreak construction). Provided on site field consultation to AFRPA Compliance Representative for decision making in field activities for the project. Also provided Quality Assurance/Control for various Air Force Remediation systems (i.e., Soil Vapor Extraction systems including Granular Activated Systems (GAC) and Flameless Thermal Oxidizer (FTO) units), Groundwater Treatment Plants (GAC and resin ion exchange), and Air Force contaminated Sites (i.e., polychlorinated biphenyl, trichloroethylene, dioxins, furans, etc. asphalt and natural CAPS).

Other related areas of interest

Recognized (Certifications/Trainings)

- Certified Hazardous Materials Manager (CHMM) Certified, 11/14-Present.
- 10-hour OSHA Construction Safety and Health, Certified, 1/14-Present.
- OSHA 40-hour Hazardous Waste Operations and Emergency Response "HAZWOPER", with annual 8 hour refresher, 2000 - Present
- Hazardous Waste in California (Title 22) and other 49 states (Resource Conservation and Recovery Act "RCRA") Certified, 01/09-Present.
- Hazardous Materials Transportation (DOT) Certified, 10/10-Present.
- Mine Safety and Health Administration (MSHA) Previous Certification.
- Previous Forklift (including extended reach) Certified.

Work history

| 2010 – present | GHD (formerly Conestoga-Rovers & Associates), Roseville, CA |
|----------------|--|
| 2008 – 2010 | Leidos Engineering, LLC (formerly Science Applications International Corporation "SAIC"), Sacramento, CA |
| 2006 – 2008 | Active Treatment Systems, Inc. (formerly Clear Water Compliance Services of California, Inc.), Loomis, CA |
| 2005 – 2006 | Cabrera Services Incorporated, McClellan, CA |
| 1999 – 2005 | Air Force Center for Environmental Excellence (AFCEE), McClellan, CA |



Francisco Andrade, SE, PE

Structural Condition Assessment Specialist



Qualified: Bachelor of Science, Civil Engineering (BSc/2007); Master of Science, Structural Engineering (MEngSc/2013); Structural Engineer: CA #6345; Civil Engineer: CA #76742

Connected: Member of American Society of Civil Engineers, Structural Engineers Association of Southern California, American Concrete Institute, American Institute of Steel Construction

Professional Summary: Francisco has over 10 years of experience in civil and structural design, engineering, and project management for numerous complex projects and the ability to professionally and effectively interact with clients, contractors and other professionals. Knowledgeable in planning, code design standards, and construction inspection. Responsible for supervising, overseeing and coordinating lead project engineers and designers. Engineer of record and engineer in charge for multiple national and international projects.

Lead Engineer Pier A West | Tidelands | Port of LA, CA

Lead engineer responsible for the design and coordination of a 35 acre industrial development project that included: regrading of entire site, a new drainage system to collect storm water and pump it out to adjacent channel, and new office buildings on deep pile foundations. In addition, performed Structural Observations during construction phase and provided support to facilitate construction and reduce cost

Engineer in charge of structural design of:

- 40 feet long x 35 feet wide x 30 feet deep below grade concrete retention/treatment basin
- Catch basins and manholes of different sizes and depths
- Deep Pile foundation system for buildings
- Energy dissipater structure at drainage system outlet
- Additional responsibilities
 - Review of underground utility lines for compliance with traffic loads
 - Specifications for Prefabricated Office Building
 - Shop drawings review
 - Coordination between disciplines such as: mechanical, civil, and electrical

Lead Engineer Valero Terminal | Valero| Fontana, CA

Lead engineer responsible for the design of a new fuel terminal. Scope consisted of the design of Pier/Mat type foundations for electrical, mechanical, and prefabricated metal buildings for structural support and to mitigate static and dynamic settlements due to on site soils, steel canopies for the support of piping systems and retaining walls. Structural support was also provided during the construction phase of the project

Engineer in charge of structural design of:

 Pier and mat foundations for electrical and mechanical equipment.

- Pier foundation system for prefabricated metal buildings
- Steel canopies and foundations for piping systems support for loading and offloading of fuel tank semitrailers
- Retaining walls
- Additional responsibilities
 - Shop drawings review
 - Coordination with mechanical and electrical engineers
 - Specifications for Prefabricated Metal Buildings

Project/Design Engineer Downey Promenade | Architects Orange | Downey, CA

Structural engineer in charge for the design of a segment of the multi acre development for a new commercial/retail plaza in the City of Downey. Responsible for the design of new buildings, architectural features, electrical and mechanical equipment supports and foundations, and retaining walls. In addition, responsible for providing structural support during the construction phase of the project

Engineer in charge of structural design of:

- Concrete Masonry (CMU) buildings with roof Panelized Systems and Roof Steel Joist System
- Wood Building
- · Buildings' Foundations
- Architectural Features
- Retaining walls
- Electrical and mechanical equipment supports and foundations
- Additional responsibilities
 - Shop drawings review
 - Coordination with mechanical and electrical engineers, and contractors
 - Structural Observations/Inspections during construction phase
 - Structural RFI Responses



Lead Engineer Medical Building | Trapani | Roseville, CA

Structural engineer responsible for the design of a new medical office building for radiation treatment. The building's framing design consisted of concrete bearing walls with a concrete roof, and thickened concrete sections of the building to act as a radiation barrier. The project scope also included the design of foundations and structural supports for vibrations sensitive medical equipment.

Engineer in charge of structural design of:

- Building's concrete bearing/shear wall system for vertical gravity loads support and lateral force resistance
- Building's concrete roof for vertical gravity loads support and as a rigid diaphragms
- Foundations and structural support for vibrations sensitive medical equipment
- · Additional responsibilities
 - Coordination between disciplines such as: architect, mechanical engineer, electrical engineer
 - Material Specifications

Engineer of Record BP Cherry Palm Springs Terminal | British Petroleum | Palm Springs, CA

Civil/Structural Engineer of record for a new Oil facility terminal. Scope of project included: regrading of the site including an earthen secondary spill containment system for above ground storage tanks, new drainage system, new office buildings, and new loading and offloading terminal areas

Engineer in charge of structural design of:

- Foundations for above and below ground storage tanks
- Multiple office buildings' foundations
- Steel racks and bridges for piping systems
- Mechanical, electrical, and piping equipment foundations and supports
- Retaining walls to divert floodwater due to site being located in flood zone area
- Additional responsibilities
 - Coordination between disciplines such as: mechanical, civil, and electrical
 - Materials Specifications

Lead Engineer New Steel Building for Commercial Use | PK Architecture | Indio, CA

Structural engineer in charge for the design of a new steel building for commercial use. The building's framing design consisted of steel moment and braced frames with curtain walls, and a steel beams/joist roof system with metal deck. Structural support was also provided during the construction phase of the project.

Engineer in charge of structural design of:

- Building's structural framing system, which included moment and braced frames
- Building's structural roof system
- Additional responsibilities
 - Shop drawings review
 - Structural RFI Responses
 - Coordination between disciplines such as: architectural, mechanical, civil, and electrical

Other areas of expertise

- Structural design for new construction, retrofit, and alterations to existing hot rolled steel, cold formed steel, concrete, masonry and wood single and multi-story buildings and structures
- Structural field surveys and assessment reports of existing buildings and structures
- Seismic retrofit
- Structural design of supports for electrical, mechanical, and architectural components in midrise building
- Development of structural specifications and cost estimates

Other Affiliations

- Tau Beta Pi Engineering Honor Society
- Chi Epsilon Civil Engineering Honor Society

Work history

| 2018 – present | GHD (formerly Conestoga-Rovers & Associates), Waterloo, ON |
|----------------|--|
| 2014 – 2014 | Ken Okamoto & Associates, Costa Mesa, CA |
| 2007 - 2014 | SPEC Services, Fountain Valley, CA |
| 2005 - 2007 | Design and Technical Support, Covina, CA |



Mehdi Mardi, PE

Electrical & Control Assessment Specialist



Qualified: B.S. Electrical Engineering (Control & Power), Tehran Sharif University, IRAN February 1991; B.S. Applied Physics, Ferdowsi University, IRAN November 1988

Registrations: CA#C20033

Professional Summary: Mehdi is a professional electrical engineer with over 20 years of experience in the Electrical, Instrumentation and Control (I&C) fields in various type of industry like as Water and Waste Water, Oil & Gas, Petrochemical, Cryogenic and Industrial Gases. Mehdi has been involved in Electrical and I&C design, construction and commissioning on various projects including pump stations, desalination and water and wastewater treatment plants, Industrial Gas production, Hydro Power Generation, Land Field Gas, Oil and Gas field projects. He has experience in Medium and low voltage motor controls and distribution, as well as instrumentation design.

Electrical Engineer

Philadelphia Force Main Improvement | IEUA | San Bernardino, CA

This project scope of work is to modify the existing lift station and add VFD to the third pump and prepare the electrical and instrumentation packages. Make recommendations for improving the electrical design and operation.

The project is still in progress.

Electrical Engineer Ground Water Recovery Improvement Program | Water Replenishment District | Pico Rivera,

The scope of project at this job site is to be the client's engineer for a Design-Build project. Review of the drawings and specifications during the design period, and during the construction to review contractor submittals for conformance with drawings and specifications and respond to RFIs and site visit are part of weekly task.

The project is in construction now and it is due to be commissioned in 2019.

Electrical Engineer

Anaheim – Lenain Water Treatment Plant | Anaheim, CA

This scope of project at this job site is to improve the plant reliability and water quality, increase the capacity and regulatory compliance. The electrical and instrumentation scope of work is detailed design and engineering related to replacement of the portable generator with a stationary generator, modify the existing switchboard and adding ATS, enhance the area lighting, HVAC and CCTV. Replacing some control panels and control valves and instruments, and integration into SCADA system.

Electrical Engineer

Upgrading the Fire Monitors and Control System in Sail Room | San Diego Convention Center | San Diego, CA

This project scope of work was detailed design and engineering related to replacement of the Old hydraulic operating Fire monitors with new Electric control Monitors supplied by Elkhart Brass. Also installing New Aspiration Smoke detection (ASD) system, Protectowire Heat detection and installation of New Siemens XLS control panel. Coordination of design with San Diego Fire department and city of San Diego was part of the Engineering task.

Electrical Engineer

Land Fill Gas Recovery system Phase V | Stanton Energy Center | Orlando, FL

This project scope of work was detailed design and engineering related to phase V of increasing the capacity of Gas Recovery and addition of New Gas Compressors.

The Electrical and instrumentation Design was to prepare all Detailed Electrical Drawing plus Automation and PLC panels, it included single line diagrams, plot plans, Hazardous area Classification, Lighting plan, and Lighting plan. Updating the Etap Model and preparing Short circuit study Report and the Arc Flash label was part of Scope of work.

Electrical Engineer

Ground Water Remediation system | P66-Wilmington Refinery | Long Beach, CA

This project scope of work was detailed Electrical and control design and engineering related to drilling of Ten New Ground Water wells around Wilmington Refinery.

Scope of work include preparing detailed Electrical and Control drawing package, including Hazardous Area Classification, Emergency shut down panel, preparing IFC and inquiring city permit.



Electrical Engineer

New Filter and Bag House |Gerdau Steel Mill | Rancho Cucamonga, CA

This project scope of work was to help SMS S.P.A (Italian Engineering/Contractor) in preparing the Electrical design and make it in compliance with local, National Codes, and inquiring city permit.

The electrical package include the plot plans, MV and LV Single line diagram and MV & LV switchgears, Hazardous Area Classification, Cable and conduit Routing and Schedule and details.

Electrical Engineer

Additional Desalination System | Southern California Edison- Pebbly Beach | Catalina Island, CA

This project was increasing the capacity of existing water treatment units and addition a Desalination unit to the existing units.

The scope of work was detailed Electrical and control design and engineering related to installation of new GE RO unit, installing new Transformer and metering unit, New MCC and PLC Panel.

Construction support, start up and commissioning was added to the scope of work later.

Electrical Engineer

Oil Transfer Pump | CRC- Freeman and Chaffee Island | Long Beach, CA

This project was increasing the capacity of existing Oil Transfer Pump from Freeman and Chaffee Island by replacing the existing Oil Transfer Pump with larger Pumps.

The scope of work was detailed Electrical and control design and engineering related to installation of new OTP pumps. It required adding new Switchboard, MCC and VFDs. Updating the Etap Model and preparing Short circuit study Report and the Arc Flash labels were part of Scope of work.

After completion of the design, Construction support, start up and commissioning were added to the scope of work.

Electrical Engineer

Hose Room | P66- Lube Oil | Los Angeles, CA

This project involved Modifying all the piping in Hose Room, adding new metering skid and adding new pumps to each product Tank.

Scope of work was detailed Electrical and control design and engineering related to installation of new pumps, modifying MCCs, preparing the conduit routing and cable and conduit schedules, preparing the I/O list and control panels.

Updating the Etap Model and preparing Short circuit study Report and the Arc Flash label was part of Scope of work.

Electrical Engineer

Vapor Recovery Booster Compressor | CRC-Freeman Island | Long Beach, CA

This project was increasing Efficiency of Vapory Recovery system by adding a Booster compressor to Existing Vapor Recovery System.

The scope of work was detailed Electrical and control design and engineering related to installation of new Booster Compressors. It required adding new feeders to existing MCC and Modifying the PLC panels.

Electrical Engineer

Upgrading the Oil Field Power Distribution Switchyard | CHEVRON | Bakersfield, CA

This project was improving the quality of the existing Power distribution switchyard by replacing the 115KV Disconnect switches with no protection with ABB Circuit breaker and providing the Protection relays for these feeders by SEL.

The scope of work was detailed Electrical and control design and engineering related to installation of these two new ABB low oil Circuit Breakers and SEL feeder protection Relay and protection Relays.

It was also included Commissioning and Startup of the Switchyard after installation.

Other related areas of interest

Recognized (Certifications/Trainings)

- Control and instrumentation, PETKIM Petrochemical Co., Izmir/ Turkey
- Supply chain Management course (by APICS) at Gaiser tool Company, Ventura/ CA
- Intermediate/Advance programming of Automation Direct PLC, Irvine/ CA

GHD

Michael Freid

Cost Estimator



Qualified: ASU Center for Environmental Studies, Hazardous Materials Handling, 1992; California State University, Water Treatment Plant Operation, 1992; Rio Salado College, Management and Productivity, 1989; Phoenix College, Undergraduate Studies, 1979; Associated General Contractors of America (AGC) Supervisory and Project Management

Connected: Qualifying party for Arizona Contracting License, Class A, General Engineering

Professional Summary: Mike Freid offers more than 30 years of construction experience. He specializes in cost estimating, constructability review, construction inspection, dispute resolution, and contract negotiations and management of water and wastewater related projects. This includes construction and commissioning services for water and wastewater treatment facilities, water mains, water supply/storage, well pumps, booster pumps, sewer lift stations, reinforced concrete structures, steel fabrication, and distribution pipeline projects.

Construction

Senior Construction Project Manager 52nd Street Operable Unit 1 Piping | Freescale | Mesa, AZ | Current

GHD is currently completing a discharge pipeline installation project for Freescale Semiconductor at their 52nd Street groundwater treatment system in Phoenix, Arizona. Mike oversees construction and monitors schedule, cost, and quality. Upon completion, the client will realize a savings of over \$300,000 annually in City of Phoenix fees for treated water discharge.

Senior Construction Project Manager Evergreen Well | Global Water Resources | Buckeye, AZ | 2012

Well site construction, including installation of a well pump, pipe, valves, controls, and site improvements at a potable water well site. Mike oversaw the construction while monitoring schedule, costs, and quality. He also helped secure project funding through the American Recovery and Reinvestment Act of 2009 (ARRA).

Senior Construction Project Manager Frank Lloyd Wright Arsenic Treatment System | Frank Lloyd Wright Foundation | Scottsdale, AZ | 2013

Mike managed a design/build well head Arsenic treatment system for Taliesin West, Frank Lloyd Wright's Scottsdale, Arizona architectural school and museum. He provided constructability review during design, provided value engineering, managed site construction, startup, and commissioning. Mike also helped the client achieve drinking water compliance with the Maricopa County Department of Health Services.

Senior Construction Project Manager 34th Street Groundwater Treatment System | Freescale Semiconductor | Phoenix, AZ | 2013

Mike was responsible for the design/build of a groundwater treatment system. He provided constructability review during the design phase and managed plant construction, including staffing, vendor procurement, scheduling, planning, and cost tracking to assist the client with contamination containment.

Senior Construction Project Manager Ruth Fisher Tank and Well | Saddle Mountain Unified School District | Tolleson, AZ | 2015

Saddle Mountain Unified School District in Tonopah, Arizona needed to replace its existing potable well and water storage tank at the Ruth Fisher Elementary School. Mike was responsible for all construction-related activities; staffing, quality control, subcontractor selection and oversight, scheduling, planning, and cost tracking. He provided high quality system installation and integration with the existing distribution system. Water quality of the new well resulted in a substantial reduction in operating costs of the existing electrodialysis reversal (EDR) water treatment system.

Senior Construction Project Manager Casa Grande Water System Rehab | City of Casa Grande | Maricopa, AZ | 2011

The City of Casa Grande is located approximately 50 miles southeast of Phoenix, Arizona. The City entertained open bidding for the rehabilitation of its hydro-pneumatic distribution system. The project award was based on an alternative system proposal created by a Senior Construction Project Manager. Mike was responsible for the management of tank, pipe, pump, and programmable logic controller (PLC) panel installation along with integration, subcontractor selection and management, scheduling, planning, cost tracking and startup and commissioning.

Senior Construction Project Manager Buckeye Ranch Arsenic Treatment System | Global Water Resources | Maricopa County, AZ | 2011

This was a Design/Build project. Mike provided constructability review during the design phase and provided value engineering. He was responsible for management of construction activities, the installation of



equipment, staffing, planning, cost tracking, system commissioning and start up.

Senior Construction Project Manager Sweetwater Well Site Arsenic Treatment System | Global Water Resources | Buckeye, AZ | 2007

On this Design/Build project, Mike provided constructability review during the design phase, provided value engineering, was responsible for management of construction activities; the installation of equipment, staffing, planning, cost tracking, system commissioning and start up.

Senior Construction Project Manager Sonoran Vista Well Site Arsenic Treatment System | Global Water Resources | Buckeye, AZ | 2008

During this Design/Build project, Mike provided constructability review during design phase, provided value engineering, was responsible for management of construction activities, the installation of equipment, staffing, planning, cost tracking, system commissioning and start up.

Senior Construction Project Manager 6th Street Service Center Remediation | City of Mesa | Mesa, AZ | 2008

This project involved a thermal oxidation soil vapor extraction (SVE) system comprised of 12 vapor extraction wells and inter-connective piping. Mike provided construction management at risk (CMAR) for the City of Mesa's remediation site project.

Senior Construction Project Manager Tucson International Airport Remediation O&M | Tucson International Airport | Tucson, AZ | 2005 - present

This project involves operation and maintenance (O&M) and construction-related projects on a dual-phase groundwater treatment system (liquid and vapor). Mike is responsible for staff oversight, cost control and tracking, scheduling, value engineering, and agency reporting.

Senior Construction Project Manager Green Valley Arsenic Treatment Facility | Green Valley Water District | Green Valley, AZ | 2007

Mike was responsible for the construction of an Arsenic treatment system and site construction of a 1,200-gallon per minute (gpm) wellhead arsenic treatment system. The system consisted of three parallel trains of arsenic treatment vessels along with ancillary and underground piping to connect to existing waterlines.

Sr. Construction Project Manager LPSCO Domestic Water Wells | LPSCO | Litchfield Park, AZ | 2004

Mike managed the installation of line shaft turbine pumps and ancillary piping, controls, and hydro pneumatic distribution system at three separate sites:

- AL5 Well Site
- AL9 Well Site
- TW1 Well Site

Well site construction included pumps, pipe, valves, controls, and site improvements.

Senior Construction Project Manager Apache Lift Station | City of Mesa | Mesa, AZ

Mike's responsibilities with this project included the rehabilitation of a large multi-pump sewage lift station comprised of the increase in overall height and volume, new interior lining, and inter-connective pump piping for this City of Mesa site project.

Work history

| 1999 - present | Associate, GHD (formerly Conestoga-Rovers & Associates), Phoenix, AZ |
|----------------|--|
| | Named Associate, 2008 |
| 1976 - 1999 | Anderson Contracting Company, Inc. |

Other related areas of interest

Recognized (Certifications/Trainings)

- Arizona Class 1 Wastewater Treatment Plant Operator
- Arizona Class 1 Water Treatment Plant Operator
- Eljen Wastewater Treatment Systems Installer
- 8 Hour Arizona Mine Safety and Health Administration Refresher, 2013
- 24 Hour Arizona Mine Safety and Health Administration, 2011



Coenraad Pretorius, PE

Senior Wastewater Engineer



Qualified: University of Stellenbosch, South Africa, Bachelors of Science in Chemical Engineering, 1993. University of Cape Town, South Africa, Bachelors of Science (Honors) in Microbiology, 1990. University of Stellenbosch, South Africa, Bachelors of Science in Genetics and Biochemistry, 1989.

Registrations: Registered Professional Civil Engineer, California.

Connected: Member, American Institute of Chemical Engineers. Member, Water Environment Federation. Member, WEF Municipal Resource Recovery Design Committee. Member, WEF Program Committee, Municipal Symposium. Member, WEF Grit Task Force and co-author of new grit sampling guidelines (currently under development). Co-author, Design of Water Resource Recovery Facilities (MOP 8; 6th Edition), Volume 2, Chapter 15. Member, WEF Subcommittee to decide annual winner of Eddy Medal.

Professional Summary: Mr. Pretorius has over 25 years of experience in process design for water and wastewater treatment. His experience includes biological nutrient removal, secondary treatment design, capacity rating, process modeling and oxygen transfer, as well as

grit removal. Recently he has focused on process control, in particular SRT control, and energy saving strategies, including optimization of mixing and aeration in aeration basins as well as mixing in anaerobic digesters. In South Africa, Mr. Pretorius also worked on low main-tenance systems (including pond systems), industrial effluent treatment, acid mine drainage and treatment of potable water.

Modeling

Process Specialist, Plant 3A, Moulton Niguel Water District, Aliso Viejo, California

Coenraad oversaw process modeling to determine (1) the capacity of the existing facilities, (2) additional process units required to treat a flow of 6 mgd to meet existing effluent standards, (3) . additional process units required to treat a flow of 6 mgd to meet an effluent total nitrogen (TN) concentration of 10 mg/L and (4) process units required to treat a flow of 6 mgd to meet an effluent TN limit of 10 mg/L using an MBR process. As part of the project additional sampling was performed and it was determined that the influent has a very low soluble substrate concentration, so that an abnormally large anoxic fraction would be required to reliably meet the effluent TN limits. It was also shown that the primary clarifiers occasionally achieved abnormally high removal efficiencies, which further added to the challenge of meeting effluent TN limits.

Process Specialist/Investigator, Plant 1 Sludge Process, Orange County Sanitation, California

Mr. Pretorius investigated the potential benefits and savings that could be achieved by producing thicker primary sludge at Plant 1 for the Orange County Sanitation District. A process model was created and process outputs were used as inputs to an operations cost model. It was shown that significant savings are possible if external primary sludge thickening in centrifuges could be avoided.

Process Specialist, Model of Unit 1 Primary Clarifier and Surrounding Circular Aeration Basin for the City of San Bernardino, California

Mr. Pretorius created a model of the Unit 1 primary clarifier and surrounding circular aeration basin for the city of San Bernardino. He identified the required feed points, treatment capacity, and optimal operation with any 2 adjacent zones (out of a total of 10) out of service. The secondary treatment system is also being converted to nitrogen removal.

Design

Process Engineer, Carbon Canyon Water Recycling Facility Asset Management and Improvements, Inland Empire Utilities Agency, Chino, California

Mr. Pretorius developed a calibrated process model of the facility and served as a process specialist for the evaluation of different alternatives for modifying the aeration basins and upgrading the aeration system. For each alternative, the impact on effluent quality was evaluated, as well as the life cycle cost. The selected alternative is under design and will create a consistent configuration in all aeration basins, replace the existing blowers with turbo blowers, upgrade the existing tube diffusers, expand the aeration control system to include ammonia-based aeration control and improve sludge settling characteristics, while maintaining low effluent total inorganic nitrogen levels.



Process Engineer, Expansion Projects, Eastern Municipal Water District, California

Mr. Pretorius served as process engineer on these projects which included expansion of the San Jacinto Regional Water Reclamation Facility to 14 mgd, expansion of the Moreno Valley Regional Water Reclamation Facility to 18 mgd, and expansion of the Perris Valley Regional Water Reclamation Facility to 22 mgd. These projects typically include modifications of existing aeration basins to achieve nitrogen removal, optimization of the use of existing process units in future treatment configurations, integration between new and existing process units, evaluation of new solids handling technologies and their effect on secondary treatment, and comparison of new technologies with existing equipment. The Perris Valley project included providing temporary fine-bubble aeration to an operating oxidation ditch without taking the ditch out of service, in order to ensure that interim flow increases could be treated until the new plant was put in service.

Plant Optimization

Process Engineer, Water Pollution Control Facility Secondary Aeration Basin Rehabilitation, Encina Wastewater Authority, California

In order to maximize secondary treatment capacity, sludge-settling characteristics had to improve. This was achieved by installing selector zones. Various options were investigated to find the optimum selector size, as well as the number of zones. An improved diffuser grid was also designed to match the oxygen demand throughout the basin. It was determined that return activated sludge (RAS) pumping capacity was not limiting, and an expensive project was avoided. A sub-sequent analysis by an independent consultant showed that the later diffuser replacement project reduced the blower airflow by 9% and the blower power use by 39%.

Process Engineer, Perris Valley Regional Water Reclamation Facility Improved SRT Control Strategy, Eastern Municipal Water District, California

Mr. Pretorius served as process engineer for the development of an improved SRT control strategy. Calculating SRT for a step feed aeration basin is no simple task. The new strategy uses feed flow split and return activated sludge (RAS) ratio, in lieu of mixed liquor

suspended solids (MLSS) and RAS total suspended solids (TSS) concentrations, and generally results in less day-to-day variation in the calculated waste activated sludge flow rate. This significantly improves SRT control thus providing process stability facility-wide, while also reducing the variability of sludge flows to the anaerobic digesters. The strategy has also been implemented at the San Jacinto Valley and the Temecula Valley Regional Water Reclamation Facilities.

Renewable Energy

Process Specialist, Anaerobic Digester Gas Production, Moreno Valley Regional Water Reclamation Facility, California

Mr. Pretorius served as process specialist for the evaluation of using residual syrup from a soft drink syrup producer to increase anaerobic digester gas production at the Moreno Valley Regional Water Reclamation Facility. The facility received state funding for installing fuel cells to convert digester gas into electrical power. As part of the funding requirements, the facility had to prove that it was achieving a certain level of renewable energy production. Due to the effect of the Great Recession and ongoing construction, the solids load going to digestion was lower than anticipated and as a result biogas and renewable energy targets could not be achieved. Feeding residual syrup to the digesters allowed these targets to be met.

Other related areas of interest

Academic Activities

Lecturer in the Civil and Environmental Engineering Department, the Henry Samueli School of Engineering, University of California, Irvine. Taught the undergraduate course, Wastewater Treatment Process Design, Winter 2017 quarter

Published

Pretorius, C.F., Whitlock, D. and Miot, A., "Digester Mixing: How Much Does the Biogas Contribute?" Paper presented at the 91st Annual WEFTEC, New Orleans, LA, September 29-October 3, 2018.

Pretorius, C.F., Garrido, M. and Rosso, D., "Mixing in Activated Sludge Systems" in Rosso, D. (ed) Aeration, Mixing, and Energy: Bubbles & Sparks. IWA Publishing, London, UK, 2018.

Stone, E.D., Walker, S.J., Reardon, R.D. and Pretorius, C.F. "Nutrient Removal Remedies, Troubleshooting BNR processes requires a holistic review." WE&T Magazine, pp. 42 – 47, Vol. 27, No. 4, April, 2015.



Nick M. Alvaro, QISP

Phase I ESA Specialist



Qualified: B.S., Environmental Science, 2003

Connected: Industrial Environmental Association IEA); San Diego Environmental Professionals (SDEP)

Professional Summary: Nick is a Qualified Industrial Stormwater Practitioner (QISP) with over thirteen years of professional experience working within the environmental industry with a primary focus on investigation and assessment, health & safety, compliance, and case management. His project experience includes Phase I and II environmental site assessments, environmental compliance reviews and audits, permitting, site conceptual modeling, agency coordination, field project planning and execution, contractor oversight, and full cycle project management. Nick has experience completing on-site facility health & safety and environmental assessments and compliance audits. He has completed a variety of project assessments impacted by multiple contaminants including petroleum hydrocarbons, chlorinated solvents, pesticides, and heavy metals.

Investigation and Assessment

Environmental Scientist Various Projects | Shell Oil US and Exxon Mobil | Southern California | 2005 – 2016

Completed over 50 investigation and assessment projects at various retail gasoline service stations. Projects include soil boring drilling and sampling, groundwater well installation and destruction, groundwater monitoring, soil vapor probe installation and sampling, and remedial feasibility testing/extraction events. Responsibilities included the oversight of multiple subcontractors, vendors, and field staff simultaneously while keeping project goals on track and within budget. Continual focus on identifying unsafe trends and provided positive correction actions that lead to safe behavior and injury free work environments.

Project Coordinator Soil and Groundwater Investigation | Ashford, Inc | Costa Mesa, California | 2016 - ongoing

Assisted with site strategy development in order to assess historical impacts to soil and groundwater from previous retail service station. Project activities to date include an extensive land and geophysical survey due to complex site features to adequately assess former UST features, Phase II ESA, groundwater monitoring well installation, and routine groundwater sampling. Additional responsibilities have included municipal file reviews, site characterization, coordination of fieldwork, and preparation of technical documents.

Project Coordinator Phase II ESA | Brithinee Electric | Colton, California | 2018

Developed and completed Phase II ESA to adequately assess potential impacts from current and former site operations, as identified through a Phase I ESA. Project activities included a geophysical survey to identify a former UST cavity, and the drilling and sampling of ten soil borings.

Project Coordinator Soil Management - Facility Demolition | Los Angeles Community College | Woodland Hills, California | 2017

Assisted with the coordination of hazardous soil management activities during site redevelopment activities, which included building demolition and the removal of hydraulic lifts, clarifiers, and underground piping. Contaminants of concern were petroleum hydrocarbons, volatile organic compounds (VOCs), and pesticides (i.e., dieldrin).

Environmental Technician Waste Profile Sampling | UPRR | Southern California | 2018

Completed various waste sampling activities in order to adequately characterize waste for proper removal and disposal. Sampling media included hydrocarbon-impacted water, oils, oily sludge, material debris, and lead-based paints from a variety of oil refinery process equipment, storage containers, and railroad cars.

Field Geologist Reclaimed Water Conveyance | United States Marine Corps | Camp Pendleton Oceanside, California | 2017

Performed soil logging and installation of multiple groundwater monitoring wells to a depth of 200 feet below ground surface per San Diego County Department of Environmental Health, Land and Water Quality Division, and Monitoring Well Program specifications and permit. Work included coordination with base officials and monitors for biological and cultural concerns.

Environmental Technician Groundwater Assessment | Daytom Enterprises | Santa Ana, California | 2016 - 2017

Performed groundwater monitoring activities and oversight of subcontractors for volatile organic compound (VOC) impacted site. Assisted with pre-drilling activities



for additional phases of soil/groundwater assessment and remedial feasibility testing.

Project Coordinator Soil Assessment | Union Pacific Railroad | Southern California | 2016

Assisted with the development of site strategies to satisfy regulatory closure criteria for historically impacted soil sites. Coordinated and supervised soil assessment field activities, performed data evaluation, and prepared technical reporting. Projects were successfully led to environmental case closure.

Project Coordinator Indoor Air Vapor Intrusion Assessment | Avis Budget Car Rental | Hemet, California | 2016

Assisted with the planning and coordination of an indoor air vapor assessment at a commercial office building to confirm the potential VOC impacts from a nearby dry cleaning facility. Coordinated and supervised field activities, completed data evaluation, and prepared technical reporting. Project confirmed no unacceptable risk to building occupants.

Emergency Response

QA/QC Manager

Deepwater Horizon Gulf Spill Response | BP Houma, Louisiana | November 2010

Managed and trained field personnel on proper sampling procedures, reviewed/developed field sampling procedures, and coordinated on- and off-shore sampling schedules. Responsible for quality control of all environmental samples associated with spill response activities and maintained exemplary accuracy record for received/processed inventory.

Response SOP Manager Deepwater Horizon Gulf Spill Response | BP Houma, Louisiana | October 2010

Responsible for training new field personnel on environmental sampling methods and health & safety requirements associated with the emergency response operations. Assisted with the development of scope of work (SOW) procedures and prepared health & safety guidance documents. Environmental Compliance

Phase I ESA Assessor Various Clients | Southern California | 2010 - current

Responsible for conducting site inspections per ASTM regulatory standards in order to complete Phase I environmental site assessments and transaction screens for a variety of clients. Extensive experience in completing historical desktop research, database reviews, and final

report preparation. Over 50 assessments completed at facilities that include:

- Carpet manufacturing facilities in Southern California
- Auto dealership facilities in Southern California
- Aerospace supply distribution center in Torrance, CA
- Steel manufacturing plant in Adelanto, CA
- · Warehouse facility in Redlands, CA
- Nursing home facilities in Orange County, CA
- Farm equipment manufacturing in Holtville, CA
- Soil hauling facilities in Southern California
- Electric motor repair facility in Colton, CA

Stormwater Pollution Prevention Plan (SWPPP) and Spill Prevention, Control, and Countermeasure (SPCC) Plans | US Gypsum San Diego County | 2019

Assisted with SWPPP and SPCC program reviews and updates. Completed site inspections at main plant and quarry facilities documenting current site conditions, applicability of existing best management practices (BMPs), and facility compliance. Prepared SWPPP and SPCC plans.

Other related areas of interest Recognized (Certifications/Trainings)

- Qualified Stormwater Industrial Practitioner (QISP)
- OSHA 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER)
- RCRA Hazardous Management
- DOT Hazardous Materials Shipping
- Transportation Work Identification Credential (TWIC)
- · eRailSafe System Badge
- American Heart Association First Aid CPR AED
- Federal Aviation Administration (FAA) Part 107 Certification (small UAS)

Work History

| August 2012 – present | Environmental Scientist / Project Manager, GHD (formerly Conestoga-Rovers & Associates, Inc), Irvine, CA |
|--------------------------|---|
| 2005 – 2012 | Assistant Project Manager, Cardno ERI, Lake Forest, CA |
| 2004 – 2005 | QC/MS Technician, Del Mar Analytical (currently TestAmerica Laboratories, Inc), Irvine, CA |



Cheng-ying (Alex) Liu

SCAQMD Specialist



Qualified: Master of Science in Environmental Science, 2015; Master of Science in Agricultural Chemistry, 2012; Bachelor of Science in Agricultural Chemistry, 2010

Professional Summary: Alex is a certified permitting professional (CPP) and an accredited Low Carbon Fuel Standards (LCFS) lead verifier with 5 years of experience in air quality projects in California, Texas, Washington, and Virginia. Before consulting, he was a regulator and permit engineer at state environmental quality agency, which enables him to always keep up with the change in regulations. His experience include NSR permit application, rule assessment, BACT/T-BACT analysis, GHG and air emission inventory, GHG verification, CEQA/NEPA evaluation, and 40 CFR 60, 61, and 63 compliance for manufacturing and energy sectors in the South Coast Air Basin and the State of Texas. Alex is also proficient in Title V, Non-Attainment NSR and PSD permitting at the state and federal level, as well as computer based air dispersion modeling (HARP2, AERMOD) for toxic and health impact evaluation.

Air Quality/CEQA/NEPA

Lead Auditor (May 2019 – Oct. 2019) Multimedia Environmental Audit | BNSF | Various Locations

<u>Responsibilities:</u> Conducted multimedia environmental auditing for major railroad company in California and Oklahoma, focusing on air data including recordkeeping, relevant financial transaction, emission inventory and facility operation.

<u>Skills:</u> Chemistry, Organic Chemistry, Analytical Chemistry, Mass Balance/Energy Balance/Engineering Calculation, Environmental Data Analysis, Financial Transaction Data Analysis.

Lead Engineer (Feb. 2017 – Jul. 2018) Air Permitting and Emission Inventory Development | Shell | Houston, TX

<u>Responsibilities:</u> Conducted air permit application for various production units including FCCU, VDU, etc. and supported annual emission inventory development.

<u>Skills:</u> Chemistry, Organic Chemistry, Analytical Chemistry, Mass Balance/Energy Balance/Engineering Study & Calculation for Refinery on Conventional or Alternative Fuel Production/Consumption, GHG Calculation, Programming, Environmental Data Analysis, Financial Transaction Data Analysis.

Lead Engineer (Jan. 2017 – Jun. 2018) Annual Emission Inventory Development | Enterprise Pipeline | Houston, TX

<u>Responsibilities:</u> Developed computer based emission tracking system for pipeline and NG/LPG processing company for annual emission inventory reporting.

<u>Skills:</u> Chemistry, Organic Chemistry, Analytical Chemistry, Mass Balance/Energy Balance/Engineering Study & Calculation for Upstream Oil & Gas Production, GHG Calculation, Programming, Environmental Data Analysis, Financial Transaction Data Analysis.

Lead Engineer (Mar. 2018 – Jul. 2018) Air Emission and GHG Emission Inventory Development | Kinder Morgan | Houston, TX

Responsibilities: Designed GHG and other air emission calculation and tracking system for petroleum and biofuel fuel terminals for quarterly, semi-annual and annual reports for state and federal agency.

<u>Skills:</u> Chemistry, Organic Chemistry, Analytical Chemistry, Mass Balance/Energy Balance/Engineering Calculation for Petroleum/Biofuel Storage and Transportation, GHG Calculation, Programming, Environmental Data Analysis, Financial Transaction Data Analysis.

Lead Engineer (Jan. 2017 – Apr. 2017) Air Emission Inventory and EHS Reporting Design | Stolt-Haven | Houston, TX

Responsibilities: Designed and implemented emission calculation/tracking system for a petroleum/biofuel/chemical terminal for internal audit and state reporting.

<u>Skills:</u> Chemistry, Organic Chemistry, Analytical Chemistry, Mass Balance/Energy Balance/Engineering Calculation for Petroleum/Biofuel Storage and Transportation, GHG Calculation, Statistical Programming, Monitoring and Financial Transaction Data Analysis.

Project Manager/Engineer (Sep. 2015 – Nov. 2016)

Air Permit Authorization and Technical Expert | Texas Commission on Environmental Quality (TCEQ) | Austin, TX

Responsibilities: Reviewed air permit applications for oil and gas and chemical manufacturing facilities in Texas. Details including systematic operation assessment, material balance/chemical reaction on process and emission calculation, rule applicability and BACT, and air



dispersion modeling for the issuance of sound major and minor air permits.

<u>Skills:</u> State and Federal Rule Interpretation, Rulemaking, Chemistry, Organic Chemistry, Analytical Chemistry, Engineering Calculation, GHG Calculation, Oil & Gas Refinery, Chemical Industry, Petroleum and Biofuel Storage and Transportation, Programming, Air dispersion Modeling, Health Risk Assessment, Environmental Data Analysis, Financial Transaction Data Analysis.

Engineer (Apr. 2019 – Sep. 2019) The Climate Registry GHG Verification | Stanford University | Stanford, CA

<u>Responsibilities:</u> Verified voluntary annual GHG reporting to The Climate Registry including combustion, location and market-based electricity usage, mobile source, and miscellaneous activities.

<u>Skills:</u> Chemistry, Organic Chemistry, Analytical Chemistry, Mass Balance/Energy Balance/Engineering Calculation, GHG Calculation, Programming, Environmental Data Analysis for Conventional and Alternative Fuel Consumption, Financial Transaction Data Analysis.

Engineer/Technical Support (Jan. 2019 – Oct. 2019)

Enlink Annual GHG Reporting | Enlink Midstream | Dallas, TX

Responsibilities: Successfully managed team in support of annual greenhouse gas (GHG) emission inventory preparation and reporting. Co-developed data collection and management tool, and completed emission calculation, verification and submission to EPA.

<u>Skills:</u> Chemistry, Organic Chemistry, Analytical Chemistry, Mass Balance/Energy Balance/Engineering Study & Calculation for Upstream Oil & Gas Production, GHG Calculation, Programming, Environmental Data Analysis, Financial Transaction Data Analysis.

Engineer/Technical Support (Mar. 19 – Sep. 19) California GHG Verification | Various | CA

<u>Responsibilities:</u> Supported mandatory GHG reporting verification in California by providing technical knowledge on emission monitoring, fuel pathway study, calculation and financial record examination.

<u>Skills:</u> Chemistry, Organic Chemistry, Analytical Chemistry, Mass Balance/Energy Balance/Engineering Study & Calculation on Conventional or Alternative Fuel Production/Consumption & Various Industrial Processes, GHG Calculation, Programming, Environmental Data Analysis, Financial Transaction Data Analysis.

Project Manager (Oct. 2018 – Present) Air Permitting and Regulatory Applicability Evaluation | Specialty Plastics Manufacturer | Garden Grove, CA

<u>Responsibilities:</u> Provide support on evaluating air pollutant emission equipment/operation for South Coast Air Quality Management District rule applicability.

<u>Skills:</u> State and Federal Rule Interpretation, Rulemaking, Chemistry, Organic Chemistry, Analytical Chemistry, Engineering Calculation, Organic & Inorganic Manufacturing, Programming, Air dispersion Modeling, Health Risk Assessment, Environmental Data Analysis.

Engineer/Modeler (Mar. 2019 – Apr. 2019) Soil Excavation Emission Modeling and Health Risk Assessment | Closed Landfill Site | Pasco, WA

Responsibilities: Provided support on evaluating air pollutant emission calculation, air dispersion modeling, contaminant concentration determination, and health risk assessment as part of the environmental impact analysis for an active soil/groundwater remediation project.

<u>Skills:</u> State and Federal Rule Interpretation, Organic Chemistry, Analytical Chemistry, Engineering Calculation, Programming, Air dispersion Modeling, Health Risk Assessment, Environmental Data Analysis.

Engineer/Technical Support (Oct. 2018 – Nov. 2018)

Dust Prevention Plan Development for CEQA Project | Waste Regeneration Facility | Sun Valley, CA

Responsibilities: Evaluated CEQA requirements on fugitive dust and developed dust control, mitigation and management plan for a waste regeneration facility construction project.

Skills: State and Federal Rule Interpretation, Rulemaking.

Engineer (Dec. 2018 – Present) Air Permitting & Regulatory Applicability Evaluation | Snack Food Manufacturing | Algona, WA

Responsibilities: Prepare air permit application package for submission to Puget Sound Clean Air Agency for a food production company. Complete applicability study, rule review, and emission calculation for the proposed equipment.

<u>Skills:</u> State and Federal Rule Interpretation, Rulemaking, Chemistry, Organic Chemistry, Analytical Chemistry, Engineering Calculation, Food Production, Programming, Air dispersion Modeling, Health Risk Assessment, Environmental Data Analysis.

Certifications/Trainings

- OSHA 40-hour HAZWOPER and Refresher, 2019
- SCAQMD Certified Permitting Professional, 2019
- CARB LCFS Accredited Lead Verifier, 2020



Dave Boggs, CHMM, QISP, CSP

IEBL & CalRecycle/LEA Specialist



Qualified (Education): B.S. Marine Biology with a Minor in Atmospheric Sciences and a Specialization in Computing, University of California, Los Angeles, 2001

Connected (professional affiliations): Regulatory Committee Co-Chair, Industrial/Environmental Coalition of Orange County; Hazardous Materials Training Committee, Industrial Environmental Association (IEA), Groundwater Resources Association; National Brownfield Association; Air & Waste Management Association,

Professional Summary: Dave is a Certified Hazardous Materials Manager (CHMM), Qualified Industrial Stormwater Practitioner (QISP) and Certified Safety Professional (CSP) with over 15 years' experience managing and performing regulatory compliance, permitting, due diligence, and assessment and remediation projects. He has a strong background in regulatory compliance including stormwater, wastewater, hazardous materials and waste, and air quality. Dave works closely with regulators, stakeholders, and clients to negotiate effective solutions utilizing sound science, strong technical expertise, and clear communication skills. He is on the forefront of upcoming regulations and the impacts they will have on his clients. Dave is co-chair of the Industrial Environmental Coalition of Orange County Hazardous Materials Committee. He has lead hazardous materials and waste trainings for industry in Los

Angeles and San Diego through the Industrial Environmental Association (IEA). He is also heavily involved in IEA's training committees. Dave leads investigation and remediation projects driving risk based solutions to successfully close environmental assessment and remediation projects and reduce client's costs. Dave works closely with the Los Angeles Regional Water Quality Control Board (RWQCB) and Santa Ana RWQCB to negotiate effective solutions for his clients utilizing sound science, strong technical expertise, and clear communication skills. Dave brings together diverse technical expertise from within the GHD community to ensure each project has the right resources to succeed.

Permitting and Compliance

Environmental Lead | GHD | Rialto Bioenergy Facility | Anergia | Ontario, CA | 2017 – 2020

Provided environmental permitting planning for the design-build of the Rialto Bioenergy Facility. The permitting evaluation included identifying permitting timelines, schedule and requirements for stormwater, wastewater, brine line, AQMD, and hazardous materials permits and plans required to complete the project.

Environmental Lead | GHD Los Cerritos Channel Regional Stormwater Capture and Infiltration | City of Signal Hill | Long Beach, CA | 2016 - 2018

GHD was the design engineer of a Design/Build team for a regional BMP to capture stormwater from the Cities of Signal Hill and Long Beach before it reached the Los Cerritos Channel, a 303d water body. The captured stormwater will be infiltrated to groundwater, improving water quality in the Los Cerritos Channel and helping the channel meet the TMDL limits. Dave was responsible for US Army Corp of Engineers 404 permitting, Los Angeles Regional Board 401 permitting, and the California Department of Fish and Wildlife Lake and Streambed Alteration agreement. Mr. Boggs also supported the contractor in evaluating the need and feasibility of discharging construction dewatering to the Los Cerritos Channel under a NPDES permit.

Project Manager | GHD | Multimedia Compliance Audit | Sulzer Turbo Services | Colton, California | 2018

Led GHD's team performing a multimedia compliance audit of the facilities stormwater, wastewater, hazardous materials, hazardous waste, and air programs to facilitate a business acquisition.

Compliance Lead | GHD Phase I ESA and Compliance Evaluation | Pharr Yarns | Irvine, CA | 2017

GHD supported Pharr Yarns during their due diligence for the acquisition of a competitor. Dave was responsible for reviewing the environmental compliance and environmental permits of five facilities to be included in the acquisition. The review included air, stormwater, wastewater, and UST permits as well as a CERS review of hazardous materials and waste. Dave identified potential non-compliance areas and the risks they create for Pharr Yarns. Dave also prepared a permitting plan and schedule to ensure that Pharr Yarns had a clear understanding of the permitting issues they would face and ensure it was planned into the acquisition schedule.

Project Manager | GHD Stormwater Engineering Evaluation | Moog | Torrance, CA | 2018-2019

Dave led GHD's team in conducting a stormwater engineering evaluation to help Moog improve their industrial stormwater program. GHD helped identify



numerous previously unrecognized sources of potential stormwater contamination and develop minimum and advanced BMPs to reduce stormwater contamination. GHD identified additional BMPs included additional covered structures, containing boiler condensate, and additional housekeeping procedures. GHD conducted a Level 1 ERA evaluation and identified BMPs to reduce stormwater contaminants.

On-Site Environmental Professional | GHD | Multimedia Environmental Compliance | Barnes & Thornburg LLP | Ontario, CA | 2018 -2019

Provided on-site multimedia environmental compliance support for multiple automotive manufacturing and customization facilities, including wastewater, stormwater, hazardous materials, and air compliance support. Supported company obtain wastewater discharge permit and implement compliance program, SWPPP development and implementation HMBP development, and air permitting compliance for paint booth permit and fiberglass manufacturing permits.

Project Manager & Senior Technical Support GHD | On-Site EHS Compliance | Saint-Gobain | Oceanside and San Diego, CA | 2018

Project Manager for GHD's team providing on-Site EHS support of Saint-Gobain's facilities in Oceanside and San Diego. GHD's on-Site staff provided multimedia compliance and safety inspections at the facilities with a special focus on improving their hazardous waste, stormwater, and air compliance programs. GHD's team identified compliance deficiencies at the plant and then worked with facility personnel to implement corrective measures. As project manager, duties involved providing senior technical support to on-site personal, Site visits and audits to help direct staff, and strategy meetings with Senior Saint-Gobain EHS personnel to share facility findings and develop lasting solutions.

Project Manager | Hazardous Gas System Risk Evaluation | Confidential Aerospace Manufacturing | Torrance, CA | 2018- Present

Performed a risk assessment of client's hazardous gas systems including anhydrous ammonia, hydrogen, helium, acetylene, oxygen and natural gas. Determined that client's systems exceeded MAQ thresholds, improperly stored incompatible gases, and was a high risk from explosion and toxic gases to nearby residences (ALOHA modeling performed by others). Provided a detailed code review to identify specific deficiencies. Developed numerous solutions to reduce client's risk and bring them into compliance including inventory management, installation of hazardous gas cylinder warehouse, seismic retrofitting, and automatic shutdown and alarm systems.

Led team of design engineers to redesign the hazardous gas systems.

Project Director | GHD | APSA/SPCC Bakersfield Tank Farm | Major Oil Company | Bakersfield, CA | 2017

Prepared SPCC plan for tank farm containing over 10 million gallons of crude oil. Conducted facility walkthrough and evaluation, interviews with facility staff, containment calculations, and significant harm evaluation. Recommended minor facility modifications to ensure compliance with 40 CFR Part 112 regulations and minimize potential for spills.

Recommended minor facility modifications to ensure compliance with 40 CFR Part 112 regulations and minimize potential for spills.

Due Diligence

Project Manager | GHD Phase I ESAs | Various Clients | Southern California | 2015-2017

Involved in the management of numerous Phase I ESAs for clients throughout southern California. On a recent project in Redlands, CA, Dave managed the Phase I ESA and supported our client, the seller, through a contentious property transaction. The buyer conducted a separate Phase I ESA, which they used to try to modify the terms of the sale contract. Dave provided a review of the opposing Phase I ESA identifying deficiencies throughout the document and provided environmental support to the client throughout a successful negotiation and closure of the sale.

Hazardous Materials

Project Manager | GHD LAPC Old M&O Facilities Asbestos & Lead Abatement Oversight and AST, Clarifier, Hoist, and Contaminated Soil Removal | LACCD | Woodland Hills, CA | 2017-2018

Project Manager for the abatement oversight of 17 buildings with asbestos, lead, and universal waste, transite pipe removal. Also responsible for the environmental oversight of soil contaminated with lead, arsenic, dieltrin and the removal of an AST, clarifier and hoist. Includes the preparation of the 1166 monitoring report, AST removal report, building clearance memos, and the hazardous materials closeout report.



Matthew Barkley

Real Estate Options Specialist



Qualified: Duke University- MEM, Environmental Economics; Miami University – BA, Economics and BA, Geology

Professional Summary: Accomplished economist with a successful track record in delivering PMOs, designing strategic risk management strategies, performing portfolio optimizations, and developing cost benefit models to improve capital programs and project expenditures. Consulted clients in streamlining resources for \$200M capital program, developing and executing global capital project and facilities management PMOs, designing portfolio strategies for redundant assets, and pioneering innovative insurance solutions to improve risk management.

Project Manager – Technical Lead Resource Optimization Program and Tracking Tool – Santa Ana, CA

Mr. Barkley developed a program and analytics framework which allows Orange County to manage staffing of their capital improvement plan. This tool allows project managers and directors to gain visibility on the number and type of staff that will be required to fulfil OCPW's \$900M capital improvement plan. The program has improved efficiency and staffing levels throughout OCPW's workforce.

Project Manager – Technical Lead Surplus Asset Cash Flow Optimization – San Ramon, CA

Mr. Barkley supported internal strategic advisors, legal, and real estate staff to develop a site reuse/redevelopment plan that would maximize residual land value and optimize the client's cashflow. Each scenario was then evaluated for total combined benefit of the redevelopment, liability reduction and cash conservation. Project deliverable was a net-present valuation for each of the options, incorporating speed of divestment, public perception and ease of implementation.

Project Manager

Project Management Office Implementation – Collegeville, PA

Mr. Barkley provided oversight and guidance in the development of PMO structure for capital projects for a large pharmaceutical client. Worked between US and UK OpCos to evaluate and refine current controls and reporting structure. Managed program implementation and evaluated project performance. The project tasks included: determining "as-is" scenario, develop updated controls and reporting framework, managed program implementation, and assisted in personnel reorganization.

Economic Advisor

Benefit Estimation of LID Infrastructure – Chattanooga, TN

Mr. Barkley conducted an evaluation of the overall benefit to Chattanooga from the implementation of green infrastructure and low impact development. During this project he developed a probabilistic cost and benefit model to evaluate the proposed LID/GI. The project deliverables were used by the City to demonstrate the overall cost savings from implementing LID/GI during construction and ultimately justified updating the City's building codes.

Project Manager – Technical Lead Construction Management Tracking Tool – Collegeville, PA

Mr. Barkley developed a tool and interface to manage ongoing construction projects located US and UK. This tool allowed project managers to gain additional insight into their projects and gain visibility on cost and schedule overruns prior to them impacting projects. The tool is currently used to manage ~\$100M in annual construction annually and has improve project performance by an order of magnitude.

Project Manager

Project Management Office Implementation – New Brunswick, NJ

Mr. Barkley managed the development of a global PMO to support a worldwide audit program for a large pharmaceutical client. Worked between three regional (Americas, EMEA, and ASPAC) delivery teams to manage schedule, budget, and client interface. Tasks included schedule and budget management, development of reporting framework, and management of delivery framework.



Economic Advisor

Surplus Property Portfolio Reuse/Disposition – Midway, MI

Mr. Barkley supported internal legal and real estate teams to determine the highest and best use for a portfolio of surplus properties. Mr. Barkley evaluated each property to determine the potential for divestment and then to determine if redevelopment or conservation would provide the greatest benefit to the company. Project deliverable was a net-present valuation for each of the options, incorporating speed of divestment and the ease of implementation.

Economic Advisor

Environmental Reserve Estimation – Charleston, WV

Provide costing and modeling support to the client to establish defensible reserve estimates for selenium water treatment. Project costs were determined working with internal and external experts and model was developed to account for the inherent uncertainty in the projecting costs over a 30 year timeframe. Model and cost estimate were accepted by a third party review team. The project tasks included: determining correct model inputs, developing and implementing a probabilistic costing model, and evaluation of potential risk events.

Economic Advisor

Estimation of Benefits Associated with Stormwater Infrastructure Upgrades – Cincinnati, OH

Evaluated the overall benefit to Cincinnati from the implementation of low impact storm water management system. Developed a probabilistic cost and benefit model to evaluate the proposed storm water upgrades in Cincinnati. The project tasks included: determining correct model inputs, developing and implementing a probabilistic net present value model, production of memos and presentations, and presenting results to the client.

Economic Advisor

Natural Resource Damage Assessments – Multiple Locations (MT, AR, TX, NM, etc.)

Evaluated ecological and human use service loss resulting from spills in the Yellowstone River, Mayflower, Arkansas, historic releases in Port Arthur, TX, and historic mining releases in NM. Developed human use valuation methodology use in a litigation driven natural resource damage assessment. Human use values were calculated to determine lost value of resources to the general population which was used in determining overall value of damages. Ecological service losses were evaluated through a HEA model. The project tasks included: determining correct model inputs, developing and implementing net present value model, habitat equivalency modeling, and NPV calculation..

Economic Advisor

Evaluation of Environmental Impacts and Mitigation – Phosphate Patch, ID

Evaluated proposed mine plans to determine the ecosystem services which will be impacted and help develop a plan that would have the least amount of potential impact to the surrounding environment. Each iteration of the mine plan was evaluated to quantify the ecosystem services that were impacted and to design a mitigation project that would replace those impacted services. The net present value of the impacted services was evaluated against the net present value of the mitigation in a cost-benefit model to develop a net present value of the total project so each scenario could be evaluated by both ecosystem services and currency.



Nikhil Khurana, M.Eng.

Options Analysis & Business Case Analyst



Qualified: M.Eng. Chemical Engineering (First Class Honours), University of Melbourne, 2015; B.Sc. Chemical Systems, University of Melbourne, 2013; Certificate IV Project Management

Connected: Member, Australian Water Association

Professional Summary: Nikhil has a diverse set of experiences and interests in infrastructure development, particularly in the waste, water and energy sectors, with a focus on extracting the most value from investments. As part of GHD Advisory he leads and contributes to financial modelling, business case development, strategic planning, transaction advisory and implementation of sound investment logic. Previously as a process engineer in GHD's Water Technology group, he has been involved in process design and economic analysis of water, desalination and wastewater treatment plants, as well as involvement in several strategic long-term planning projects. Prior to GHD, Nikhil completed research on tailings flocculation with Rio Tinto and worked briefly at float-glass production facility in India.

Advisor, Business Case and Economics

Ocean Water Desalination Cost-Benefit Analysis | West Basin Municipal Water District | El Segundo, CA | 2019-present

Currently developing detailed financial model and costbenefit analysis (quantitative and qualitative) for the approximately \$500mil desalination facility proposed for El Segundo beach in Southern California. Financial modelling includes probabilistic modelling using Monte Carlo approach. The project will form a core component of the final business case and investment decision for the client, West Basin Municipal Water District.

Evaluating Costs and Benefits of Offset Programs | Province of New Brunswick | Canada | 2019-20

Led the economic analysis of a number of carbon offset project types and protocols under consideration by the Province of New Brunswick. Economic analysis focused on identifying the economic potential of options for the Province and wider Canada. Economic multiplier methodology based on IO-tables was adopted.

Doheny Desalination Project | South Coast Water District | California, USA | 2016 – 2017

Developed a detailed economic model to estimate and optimize cash-flows over project lifetime, for assorted options. Considerations included:

- Californian water governance & economic, regulatory and financial drivers, including complex rebate arrangements and grant conditions.
- Different project delivery options with and without private sector partnerships. This included detailed financial analysis and probabilistic risk assessment underlying a value-for-money (VfM) analysis.

Undertook process modelling, options selection, and preliminary design & layout for various sections of the proposed Doheny Desalination Project, including:

- Pretreatment process for iron and manganese-rich seawater
- Potabilization process to achieve final treated water specifications in terms of alkalinity, pH, hardness and scaling potential.

Great Tasting Water | Wannon Water | 2018 – 19

Managed the development of a cost-benefit analysis and business case for investment in improving aesthetic quality of water supply, including consideration of wider social, health and economic benefits that could be derived from the project and foster improved quality-of-life and stronger communities.

AquaNet Technical Due Diligence | Jemena Ltd. | 2018 – 19

Managed development of a technical and environmental vendor due diligence report for ~\$150mil sale of the Rosehill Recycled Water System in Sydney, closed in Aug '19. Led the financial analysis of operating and maintenance costs for the ongoing operation of the asset, asset management plan review, and coordinated effectively with the technical review team and subcontractors.

Various Studies | Confidential Oil Supermajor | Texas | 2019-20

Managed delivery of two feasibility-stage studies to support investment decision into >\$15bil LNG facility in Southwest Louisiana. One study focused on potential housing market impacts and mitigation strategies. One study used risk-based framework to assess delivery strategies for highly flammable refrigerants, including novel approaches for marine, road and rail transport in the US Gulf Coast.



Lithium Facility Location Study | Quebec | 2019

Managed delivery of a location study for a ~\$500mil lithium conversion facility (confidential multinational client), investigating options across the US, Canada, Europe and SE Asia. Coordinated inputs from logistics, process, waste and permitting teams while leading utilities and market analysis teams.

Detailed Business Case | Confidential Client | Victoria | 2018

Developed a detailed business case to Department of Treasury and Finance standards for a ~\$70m innovative cross-industry scheme including waste-to-energy, solar, biogas cogeneration and recycled water. Heavily involved in financial modelling, options assessment, economic evaluation (CBA) and coordination of the business case development. Project was completed within extremely tight timeframes and constantly shifting technical and messaging frameworks, working in close collaboration with the client.

Waste-to-Energy Feasibility Projects | Department of Economic Development, Jobs, Transport & Resources (DEDJTR) | Victoria, Australia | 2017 – 2018

In the context of spiking gas and electricity costs, the feasibility of alternative energy systems was of interest to State Government. Managed two feasibility assessment projects (each ~\$100k in value) for industrial sites in metropolitan Melbourne and Gippsland. Led the financial modelling of the waste-to-energy and cogeneration options, requiring research into state of East-coast energy markets, sensitivity testing, and significant interfacing with technical design team and stakeholders.

Water and Wastewater Servicing Strategy | Confidential Client | Victoria | 2018 – 2019

Managed development of a strategy for providing critical servicing infrastructure for an iconic Victorian tourism region. Includes demand analysis, strategic and detailed options development, and consideration of adaptive planning pathways to navigate uncertain future scenarios of development in the region.

Technical Due Diligence | Confidential Client | New South Wales, Australia | 2018

This work involved identification and assessment of technical (and associated contractual) risks associated with a suite of proposed upgrades to a significant water treatment asset in NSW. The asset is operated under a long-term operating contract, with upgrades to be completed through a D&C contract.

Investment Case for Solid Recovered Fuel | Confidential Client | Victoria, Australia | 2018

Comparative financial modelling and a review of the waste-to-energy market was presented to provide guidance on commercial, technical and regulatory factors that affect the viability of investment in a new solid

recovered fuel (SRF) powered waste-to-energy facility. Provided input on financial and commercial aspects for this report.

Geelong Convention and Exhibition Centre – Phase 3 Business Case Update | DEDJTR | Victoria, Australia | 2017 – 2018

An update to the Business Case for the GCEC project was required, including modifications to cost allowances and recalculation of the project's benefit-cost ratio. Tasks included liaising with subcontracted quantity surveyors and financial modellers, and preparation of the final document

Warrnambool Water Reclamation Plant (WRP) HVHR Business Case | Wannon Water | Victoria | 2017 – 2018

The proposed upgrade to the Warrnambool WRP is Wannon Water's largest value project from 2018-23 at ~\$40mil. Due to its high cost, review and approval of the project by Department of Treasury and Finance (DTF) was required. Led development of a preliminary business case for the project following DTF's High Value-High Risk project framework, under tight timeframes.

After Hours Call Centre Business Case | Coliban Water | Victoria, Australia | 2017 – 2018

Coliban Water looked to improve customer service by assessing past performance and recommending a future direction for handling fault & emergency customer calls received outside of business hours. Led preparation of the final business case for the project, including data analysis, development and assessment of options and final presentations to Coliban Water.

Victorian Desalination Project (Secondment) | Department of Environment, Land, Water & Planning (DELWP) | 2017 – 2018

Ongoing part-time secondment to Capital Projects Division team responsible for administering the PPP contract with AquaSure for the multi-billion dollar VDP, Australia's largest ever water project. Role involves documentation development support relating to plant operation, asset management and policy changes, including liaising with political stakeholders.

Other areas of interest

Published

 "Floating Solar Arrays: Powering Off the Grid Water Treatment Plants of the Future."
 Conference Paper, OzWater 2018



Jonathan Elton

Executive Advisor



Education: Aston University, UK, Bachelor of Science, Transport, Operations & Planning; The Wharton School, US, Executive Negotiation & Bargaining For Advantage; University of Buenos Aires, Argentina, Latin American Studies & Commerce; INSEAD, France, Negotiation Fundamentals; University of Liverpool, UK, Social Psychology.

Professional Summary: Jonathan is a results driven senior leader with a proven record of consistently delivering practical and implementable solutions to the toughest challenges. He relishes working in complex, multi-stakeholder environments and has wide experience in heavily regulated industries, politically sensitive locations and highly competitive markets in the US and around the world.

He places get emphasis on openness and transparency by developing trusting relationships so that all key stakeholders are heard and understand the issues, analysis and proposals. Jonathan is based in Houston, having also been lived in London (UK), Cape Town (South Africa) and Buenos Aires (Argentina) during a wide-ranging 29-year executive career in the Royal-Dutch Shell Group. He also held a number of senior corporate positions in the Group as either a Director or Senior Officer of major companies. In addition as a Vice President and Board member in the Surplus Property Roundtable, he provided collective management direction for a 501C3 non-profit organization of 25 major corporations dedicated to the sustainable rehabilitation of environmentally challenged real estate in the US and Canada.

Since joining GHD Jonathan has won a number of major contracts with water, oil and chemical companies across the United States. These have included strategy, negotiation and implementation projects, most recently for a major off site contamination remediation in New York.

Real Estate Transactions

Jonathan has been involved in a wide range of real estate and asset transactions during his career.

Whilst at Shell he managed the disposal of 697 redundant real estate locations around the world. The majority in the US and Canada.

- US\$220m proceeds, US\$80m net profit after tax.
- US\$1bn of environmental and legal liabilities transferred to buyers and a further billion extinguished.

Californian Experience

Jonathan has been involved in many oil, gas, chemical and water projects and real estate transactions across the state. This has included negotiations with state and agency staff, private companies and a wide range of stakeholders.

Mergers & Acquisitions

He has been involved in many strategy, business, investment and Mergers & Acquisition projects across the world.

He has completed more than 60 major deals with a value of \$35bn+. He was a Royal-Dutch Shell Champion Deal Lead from 2011 to 2018. Selected projects have included:

- \$100m distribution terminal rationalization with BP throughout the UK.
- \$90m acquisition of Gulf UK.
- \$320m acquisitions of Texaco businesses in Poland and Greece and Dea Czech Republic.

- \$2bn acquisition of the RWE Dea German fuels and lubricants business.
- Sale \$125m sale of the Cressier Refinery in Switzerland.
- \$180m country exit sales in Paraguay, Uruguay and associated sale of marketing businesses in Colombia.
- \$2bn+ of complex disposal and rationalization projects in Europe and Africa.
- Partial shareholding in Shell South Africa to a black empowerment partner in less than 4 months.
- The \$15bn dissolution of the Motiva Joint Venture between Royal-Dutch Shell and Saudi Aramco. Oversaw a highly successful implementation effort for operations and assets joining and leaving company involvement.
- Renewal and significant improvement in a \$1.2bn
 Services, Utilities, Materials and Facilities Agreement with Hexion in the US and Europe.

One of Jonathan's strengths is conducting initial opportunity framing assessments and he is passionate to ensure that quantitative and qualitative assessments are both included in evaluations. Intangible issues are often critical to high quality decision making and these need to be understood from the points of view of key interested parties, not just those of the party commissioning the analysis.

He works hard to understand diverse internal and external positions, motivations and influences. He has a track-record of consistently achieving consensus in challenging circumstances through open and inclusive communications.



As strategies are developed, complex projects require carefully considered risk assessment and sensitivity analysis that also take into account impacts on stakeholders, communities and can be implemented. They must stretch and test the analysis to enable issues to be foreseen, identify how to mitigate risks and deliver the promises made.

Risk Identification & Mitigation

A major component of wide ranging analyses are the identification and assessment of risks and their probabilistic impact on outcomes. Jonathan managed Royal-Dutch Shell's global legacy liability group for five years with 195 Shell staff and up to 1,000 partner contractors on site. He mitigated over \$4 billion of liabilities and closed out hundreds of projects based on a program and individual location analyses.

Department costs of \$500m was turned into a final halfyear income of \$60m through rigorous quantitative and qualitative assessment and prioritization of resources. Protection and enhancement of the companies operating and wider reputation was critical and through wide ranging stakeholder engagement, a willingness to listen and incorporate different views and attempt to deliver benefits for all parties.

In 2011 a post Macondo Jonathan was an important contributor to a company-wide risk assessment. It was found that a generational backlog of abandoned real estate, often contaminated, had built up. The majority of this was in the US and Canada. He led his team to profitably dispose of 697 redundant real estate sites in six years. This generated US\$220m in income, US\$80m in profit and ten square miles of land returned to productive use.

Ability to Implement

Jonathan has successfully planned and managed multiple complex M&A deal implementations. These are some of the most difficult challenges he has ever faced and require significant and ongoing cost benefit analyses with a wide range of sensitivity analysis.

Projects have included carving out businesses to be sold and taking over businesses being acquired. In addition he has restructured many operations and entered into and exited Joint Ventures. The US\$15bn dissolution of the Motiva Joint Venture included the safe delivery of Shell's largest ever M&A IT project, taking on 1,800 new staff, changing over 4,000 permits and licenses and an immense data provision effort.

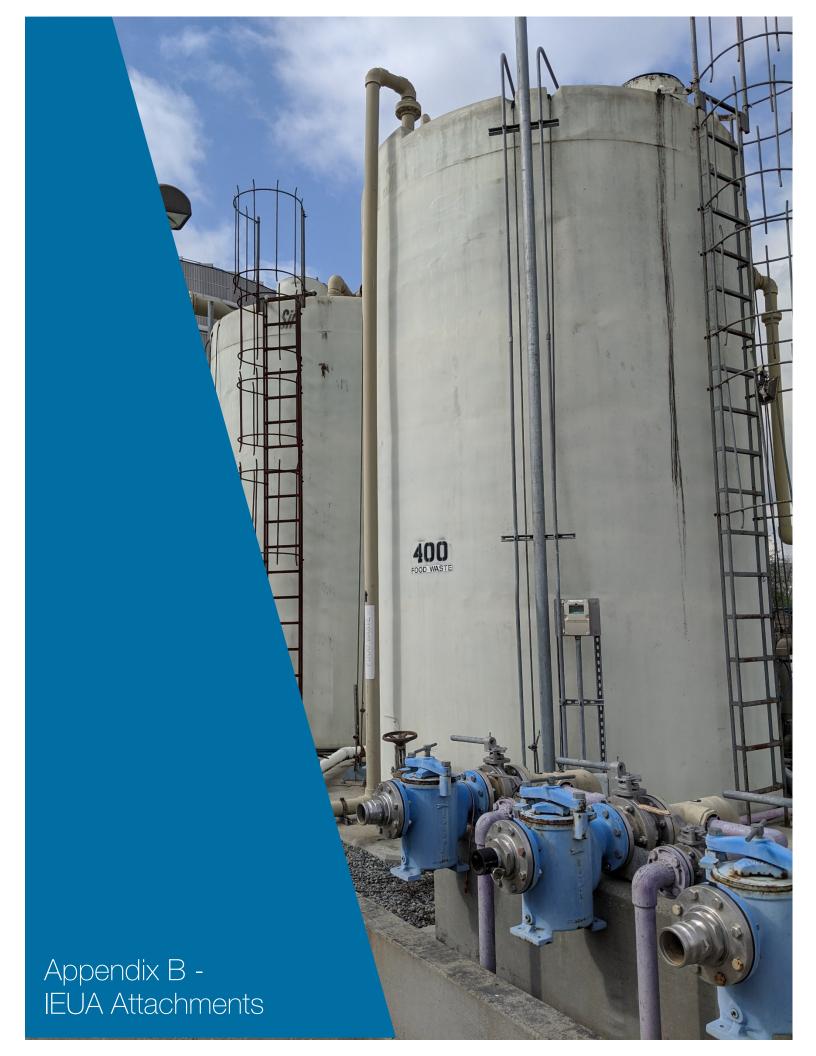
Regulatory Environments & Authorities

The ability to manage within regulated environments is something Jonathan has significant experience in. This has included highly sensitive fuels product pricing, Government supply contracts, construction materials procurement and environmental remediation such as at Superfund sites in the CERCLA process. He is also a signatory to the UK's Official Secrets Act and worked on a number projects with the very highest and most regulated levels of Government.

Senior Relationships

Jonathan is comfortable at all levels in an organization and has worked with, presented to and had successful relationships with a wide range of senior leaders:

- CEO's, Directors and Board members of major public and private companies.
- Directors and Board members of major state owned companies, including national oil, gas, chemical and power generation companies.
- Directors and Board members of major investment and merchant banks as well as private equity companies.
- Senior shareholder representatives from joint venture companies.
- Board members and senior staff of public and private utility companies and districts.
- Senior officials and management from regulatory authorities, including power generation, water and gas.
- Minister and senior members of country, state and regional governments.



Attachment E Exception Form

EXCEPTION FORM

Should your firm take exception to \underline{ANY} of the terms and conditions or other contents provided in the Request for Proposal, submit the following form with your proposal. If no exception(s) are taken, enter "NONE" for the first item. Make additional copies of this form if necessary.

| Page Number: | Section Title: | |
|-----------------------|------------------|---|
| Paragraph Number: _ | Exception Taken: | |
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| Page Number: | Section Title: | |
| Paragraph Number: _ | Exception Taken: | |
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| | | |

Attachment F Workers' Compensation

WORKERS' COMPENSATION CERTIFICATE

The Consultant shall execute this form to acknowledge and comply with the requirements of California Labor Code, Sections 1860 and 1861:

I am aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and on behalf of my Consultant, I will comply with such provisions before commencing the performance of the work of any contract entered into.

| Jamal Awad | GHD Inc. |
|---------------------|-------------------------|
| Signature | Company Name |
| | |
| Jamal Awad, PE, PhD | C2889127 |
| Printed Name | Business License Number |
| | |
| Principal | 04-23-2020 |
| Title | Date |

Attachment G Ownership Information

CONSULTANT IDENTIFICATION

| 1. | Legal name of Consultant: GHD Inc. |
|---------|---|
| 2. | Street Address: 320 Goddard Way Suite 200, Irvine, CA 92618 |
| 3. | Mailing Address: 320 Goddard Way Suite 200, Irvine, CA 92618 |
| 4. | Business Telephone: 949-648-5200 |
| 5. | Facsimile Telephone: 949-648-5299 |
| 6. | Email Address: Kim.Domptail@ghd.com |
| 7. | Type of Business: |
| [(| ☐ Sole Proprietor ☐ Partnership ☒ Corporation Other: |
| 1 - | f corporation, indicate State where incorporated: California |
| 8. | Business License number issued by the City where the Consultant's principal place of business is located. |
| ١ | Number: BUS06-02990 Issuing City: City of Irvine |
| 9. | Federal Tax Identification Number: 98-0425935 |
| 10 | . Consultant's Project Manager: Kim Domptail |
| | |

Attachment H Non- Collusion Affidavit

NON-COLLUSION AFFIDAVIT

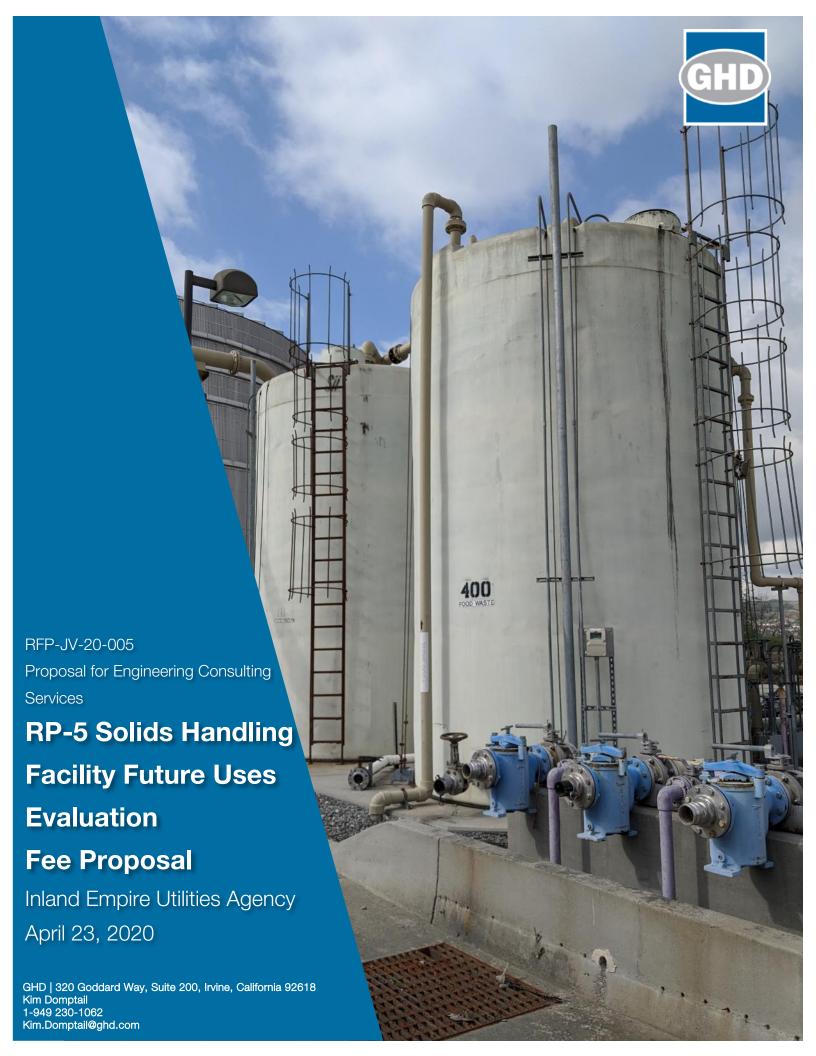
| State of California) | |
|--|--|
| County of Orange) ss. | |
| Jamal Awad, PE, PhD, being first | duly sworn, deposes and says |
| that he or she is Principal , of GH the foregoing proposal that the proposal is not mundisclosed person, partnership, company, associated any other Bidder to put in a false or sham colluded, conspired, connived, or agreed with an proposal, or that anyone shall refrain from bidding directly or indirectly, sought by agreement, community the proposal fee or the Bidder or any other Bidder element of the proposal fee, or of that of any other the public body awarding the Contract of anyone is statements contained in the proposal are true; ar or indirectly, submitted his or her proposal fee of thereof, or divulged information or data relative the any corporation, partnership, company association any member or agent thereof to effectuate a collustration. | iade in the interest of, or on behalf of, any iation, organization, or corporation; that the nat the Bidder has not directly or indirectly in proposal, and has not directly or indirectly by Bidder or anyone else to put in a shaming; that the Bidder has not in any manner, unication, or conference with anyone to fix der, or to fix any overhead, profit, or cost Bidder, or to secure any advantage against interested in the proposed Contract; that all had, further, that the Bidder has not, directly or any breakdown thereof, or the contents hereto, or paid, and will not pay, any fee to on, organization, proposal depository, or to |
| Jamal Awad | GHD Inc. |
| Signature | Company Name |
| Jamal Awad, PE, PhD | CA# C67618 |
| Printed Name | Consultant License Number |
| | |
| Principal Principal | 04-23-20 |
| Title | Date |
| RP-5 Solids Handling Facility Evaluation | Request for Proposals |



about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

www.ghd.com





April 23, 2020

Jamal Zughbi, P.E. Inland Empire Utilities Agency P.O. Box 9020 Chino Hills, California 91709

Fee Proposal for Engineering Consulting Services for RF-5 Solids Handling Facility Future Uses Evaluation

Dear Mr. Zughbi and Members of the Selection Panel,

Thank you for the opportunity to submit our fee proposal to provide Engineering Consulting Services for RP-5 Solids Handling Facility Future Uses Evaluation (RFP-JV-20-005). We are very excited about this project and look forward to working with the IEUA on this important endeavor. Our fee proposal outlines the project tasks, team member hours, hourly rates, and other direct costs associated with our approach and methodology to accomplish IEUA's goals.

As a professional service provider, GHD is always willing to work with our clients to arrive at a scope of work that meets budget goals. Thank you again for your consideration of this proposal. Should you have any questions regarding this proposal, please contact Kim Domptail at 949-230-1062 or via email at Kim.Domptail@ghd.com.

Sincerely,

Kim Domptail Project Manager Jamal Awad, PhD., P.E. Project Director

demal Awad



Fee Proposal Inland Empire Utilities Agency RP-5 Solids Handling Facility Future Uses Evaluation April 23, 2020

| Proposed Staff | Jamal Awad | Kim Domptail | Kyle Muffels | Frederick Tack | Mohamed Ibrahim | Francisco Andrade | Mike Freid | Mehdi Mardi | Coenraad Pretorius | Charles Smith | Dave Boggs | Alex Liu | Nick Alvaro | Hector Ruiz | Jonathan Elton | Matthew Barkley | Nikhil Khurana | Total Task | Total Labour | APC (\$/hr) | Other Costs | Total Task Cost |
|--|---------------------|--------------------|--|-----------------------|----------------------------|------------------------|----------------|------------------------|--------------------|-----------------------|---------------------|----------------|-------------|-------------|----------------|--------------------------|---------------------|---------------|-----------------|-------------|---|---|
| ENGINEERING CONSULTING SERVICES RP-5 SHF FUTURE USES EVALUATION | Project Director | Project Manager | Engineering Lead | Digesters Assessmt | Material Classification | Structural Engineer | Cost Estimator | Electrical Engineer | QA/QC | Environmental Lead | Environmt Review | Air Permitting | Phase I ESA | BCE Lead | ၁ ७/४७ | Real Estate Appraisal | Options Analysis | Hours | Fees | | Costs | |
| Hourly rates | \$260 | \$185 | \$195 | \$225 | \$220 | \$200 | \$160 | \$200 | \$245 | \$250 | \$195 | \$160 | \$170 | \$235 | \$250 | \$225 | \$150 | | | \$ 6.50 | | |
| Took Or Project Management | | | | | | | | | | | | | | | | | | | | | | |
| Task 0: Project Management 0.1 Project administration | 2 | 24 | | | | | | | | | | | | | | | | 26 | \$ 4,960 | \$ 169 | | \$ 5,129.00 |
| 0.1 Project administration 0.2 Mobilization & kickoff meeting | 1 | 24 8 | 4 | | | | | | | 2 | | | | 4 | | | 2 | 21 | \$ 4,960 | \$ 137 | \$ 200 | |
| Task 1: Condition Assessment | - | U | | | | | | | | | | | | 4 | | | | <u> </u> | Ψ 4,200 | ψ 137 | Ψ 200 | Ψ,530.50 |
| 1.1 Information retrieval | | 2 | 12 | 8 | | | | | | | | | | | | | | 22 | \$ 4,510 | \$ 143 | | \$ 4,653.00 |
| 1.2 Site investigation | | 2 | 8 | 8 | | 8 | | 8 | | | | | | | | | | 34 | \$ 6.930 | \$ 221 | \$ 2.000 | \$ 9.151.00 |
| 1.3 Quotes (as needed) | | 2 | 16 | 0 | | - 0 | | - 0 | | | | | | | | | | 18 | \$ 3,490 | \$ 117 | Ψ 2,000 | \$ 3,607.00 |
| 1.4 Condition assessment memo and | | | | | | | | | | | | | | | | | | | | | | |
| cost estimates | | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 8 | | | | | | | | | 120 | \$ 24,120 | \$ 780 | | \$ 24,900.00 |
| Task 2: Environmental Review | | | | | | | | | | | | | | | | | | | | | | |
| 2.1 Program EIR review | | 2 | | | | | | | | 10 | | | | | | | | 12 | \$ 2,870 | \$ 78 | | \$ 2,948.00 |
| 2.2 Potential CEQA support | | | | | | | | | | | | | | | | | | | , , , , , | | \$ 10,000 | \$ 10,000.00 |
| 2.3 Regulatory requirements and | | 2 | | | | | | | | | 16 | 16 | | | | | | 34 | \$ 6,050 | \$ 221 | , | |
| permits review | | 2 | | | | | | | | | 16 | 16 | | | | | | 34 | \$ 6,050 | | | \$ 6,271.00 |
| 2.4 Phase I ESA | | 2 | | | | | | | | | | | 40 | | | | | 42 | \$ 7,170 | \$ 273 | | \$ 7,443.00 |
| Task 3: Business Case Evaluation | | | | | | | | | | | | | | | | | | | | | | |
| 3.1 Framing workshop & review of | | 16 | 2 | | | | | | | | | | | 4 | 12 | | 16 | 50 | \$ 9,690 | \$ 325 | | \$ 10,015.00 |
| alternatives | | | | | | | | | | | | | | 7 | 12 | | 10 | | | | | |
| 3.2 Real estate appraisal | | 2 | | | | | | | | | | | | | | 24 | | 26 | \$ 5,770 | | \$ 6,000 | |
| 3.3 Third-party engagement | | 30 | 8 | | | | | | | | | | | 8 | | 8 | 8 | 62 | \$ 11,990 | \$ 403 | | \$ 12,393.00 |
| 3.4 Business Case Evaluation | 2 | 24 | 8 | | | | | | | | | | | 4 | 8 | | 50 | 96 | \$ 16,960 | \$ 624 | | \$ 17,584.00 |
| Task 4: Reporting | | 40 | . | | | | | | | | | | | | | | 40 | 40 | | | | • |
| 4.1 Draft Evaluation Report | 2 | 16 | 4 | | | | | | | 4 | | | | 4 | | | 16 | 46 | \$ 8,600 | \$ 299 | | \$ 8,899.00 |
| 4.2 Review Meeting and Final | 1 | 8 | 4 | | | | | | | 2 | | | | 2 | | | 4 | 21 | \$ 4,090 | \$ 137 | \$ 200 | \$ 4,426.50 |
| Evaluation Report 4.3 Board Presentation | | | - | | | | | | | | | | | | | | | | | | | |
| (if requested) | 1 | 8 | 4 | | | | | | | 2 | | | | 4 | | | 4 | 23 | \$ 4,560 | \$ 150 | \$ 200 | \$ 4,909.50 |
| TOTAL HOURS - All Tasks | 9 | 164 | 86 | 32 | 16 | 24 | 16 | 24 | 8 | 20 | 16 | 16 | 40 | 30 | 20 | 32 | 100 | 653 | \$ 126,020 | \$ 4,245 | \$ 18,600 | \$ 148,864.50 |
| % of total hours | 1% | 25% | 13% | 5% | 2% | 4% | 2% | 4% | 1% | 3% | 2% | 2% | 6% | 5% | 3% | 5% | 15% | 000 | Total (be | | Ψ 10,000 | \$1/2 26/-50 |

Notes: Associated Project Charges (APC) account for IT charges, printing, phone charges, global software, etc. and are set at \$6.5/hour.

Exhibit C



INLAND EMPIRE UTILITIES AGENCY CONSULTING SERVICES INVOICE

| Company | | | | Pay Estimate | | Contract Date |) | Invoice Date: | | |
|------------|------------|------------------------|---------------------------------|--------------------|---------------|-----------------------|------------------|---------------|------------|-------------|
| Address: | | | | Contract No.: | | IEUA Project | Manager: | This Period: | | |
| Proj Nam | e: | ···· | | | | | | Invoice No /C | | |
| ORIGINAL | CONTR | ACT: | | ****************** | | | | | | |
| | SAP | | | Original | Total T | his Period | Total | to Date | Progress | Remaining |
| DO N | Line | WDO Flores A No | h 5 | Contract Value | From: | | From: | | to | Contract |
| PO No. | Item | WBS Element No. | Item Description | | To: | | To: | | Date | Value |
| 2. | No. | | | Amount (\$) | % Complete | Amount (\$) | % Complete | Amount (\$) | % Complete | Amount (\$) |
| | | | | | #DIV/0! | | #DIV/0! | | #DIV/0! | \$0.00 |
| | | - XX 0 X | | | #DIV/0! | | #DIV/0! | | #DIV/0! | \$0.00 |
| | | | | | #DIV/0! | | #DIV/0! | | #DIV/0! | \$0.00 |
| | | | | | #DIV/0! | | #DIV/0! | | #DIV/0! | \$0.00 |
| | | | Subtotal Original Contract: | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 |
| CONTRAC | T AMEN | DMENTS: | | | • | | • | | | 6 |
| CONTRAC | SAP | DMLN13. | | Amended | Total T | his Period | Total | to Date | Progress | Remaining |
| | Line | | | Contract Value | From: | | From: | | to | Contract |
| PO No. | Item | WBS Element No. | Amendment Description | | To: | | To: | | Date | Value |
| | No. | | | Amount (\$) | % Complete | Amount (\$) | % Complete | Amount (\$) | % Complete | Amount (\$) |
| | | | | | #DIV/0! | | #DIV/0! | Ste Sin | #DIV/0! | 0% |
| | | | | | #DIV/0! | | #DIV/0! | | #DIV/0! | 0% |
| | | | | | #DIV/0! | | #DIV/0! | | #DIV/0! | 0% |
| | | | Subtotal Contract Amendments | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 |
| | | PAYMEN | Total Contract with Amendment | ***** | Р | \$0.00 RIOR PAYMEN | IT SUMMARY: | \$0.00 | | \$0.00 |
| | | | | From: To: | | * | | From: To: | | |
| | | | Amount Earned Original Contract | | \$0.00 | ount Earned Or | riginal Contract | | \$0.00 | |
| | | | Amount Earned Amendments | | | Amount Earne | - | 1 | \$0.00 | |
| | | | Back Charges | | \$0.00 | | Back Charges | | \$0.00 | |
| | | | Amount Due This Period | | \$0.00 | P | rior Payments | | \$0.00 | |
| | | | TOTAL PAYMENT SUMMARY: | | | | | CHEDULE SU | MMARY: | |
| | | | | Total Co | ontract | 1 | act Start Date: | | | |
| | | | | | | | ntract Duration: | | | |
| | | | | | | | mpletion Date: | | | |
| | | | Total Original Contract | | ############# | | ime Extension: | | | |
| | | | Total Contract Amendments | | \$0.00 | Revised Co | mpletion Date: | | | |
| | | | Total Payments to Date | | \$0.00 | | | MPLETION SU | IMMARY: | |
| | | | Back Charges | | \$0.00 | | Time Expired: | | | |
| | | | Payment this period | | \$0.00 | Contract W | ork Complete: | | | |
| | | | Balance of Contract | | ########### | | | | | |
| Consultan | Annrow | al: | | | | | | | | |
| | | aı. | Signature: | | | Date: | | | | |
| 1100 | | | oignaturo | | | Duto | | | | - |
| Inland Em | oire Utili | ties Agency Approvals: | | | | | | | | |
| Project En | gineer: _ | | | Date: | E | cec Mgr / CFO: | | | Date: | |
| Dept. Ma | anager: | | | Date: | Ger | General Manager: | | | | |

CONSENT CALENDAR ITEM

2F



Date: July 15, 2020

To: The Honorable Board of Directors **From:** Shivaji Deshmukh, General Manager **Committee:** Engineering, Operations & Water Resources 07/08/20

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

Subject: Contract Award for Agency-Wide Hazardous Material Handling Services

Executive Summary:

The Inland Empire Utilities Agency (Agency) has four locations within the service area that require periodic hazardous material handling services. IEUA generates spent oil, used batteries, aerosol cans, oily rags, and other universal waste that must be handled using industry-accepted practices in accordance with Resource Conservation and Recovery (RCRA) laws and regulations as well as meeting Federal environmental health standards.

To maintain the appropriate level of hazardous material handling services, a Request for Proposal (RFP) RFP-HD-20-008 was posted publicly on PlanetBids on May 22, 2020 for a new service contract and staff received three RFP bid responses. Bid responses were evaluated and scored based on pre-determined weighted criteria.

Based on the thorough committee evaluation, it is recommended that Radar Environmental be awarded the contract for the Agency Wide Hazardous Material Handling Services for a fixed pricing period of two-years with a three 1-year option to extend with CPI increases.

Staff's Recommendation:

- 1. Approve the award of contract No. 4600002925 to Radar Environmental to provide Hazardous Material Handling Services for a total not-to-exceed amount of \$300,000 over two year period with three 1-year option to extend with CPI increases; and
- 2. Authorize the General Manager to execute the service 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):

If approved, sufficient funds are available in Fiscal Year 2020/21 under Regional Operations and Maintenance (RO) fund under Biosolids Recycling. For future Fiscal Years, Operations Division will include funds in its budget requests to cover the contract requirements.

Prior Board Action:

None.

Environmental Determination:

Statutory Exemption

The project is statutorily exempt based on the CEQA common sense 15061(b)(3) of the State CEQA Guidelines.

Business Goal:

The Hazardous Material Handling Services Contract is consistent with IEUA's Business Goal of Environmental Stewardship to enhance and promote environmental sustainability and preservation of the region's heritage. The key objective of regulatory compliance to comply with all federal, state, and environmental laws and regulations.

Attachments:

Attachment 1 - PowerPoint Presentation

Attachment 2 - Hazardous Material Handling Services Contract 4600002925

Board-Rec No.: 20154

Hazardous Material Handling Services Contract









Hazardous Materials

Waste Types

- Spent Lubrication/Hydraulic Oil
- Oily Rags
- Spent Aerosol Cans
- Spent Paint
- Electronics (e-waste)
- Batteries
- Lab Generated Chemicals





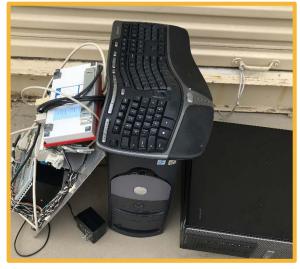


Waste Collection Sites

- RP-1
- RP-2
- RP-5
- IERCF







Hazardous Material Handling Requirements

| | rvation and Recovery Act (RCRA) Requirements |
|----------------------------|---|
| Small Generator | < 1,000 kg per month (2,205 lbs) |
| Storage Retention Limit | 180 days from start of accumulation |
| Inspections | Weekly inspections by Agency staff Monthly inspections by service contractor |

• IEUA removes all Hazardous Waste from sites every 90 days to ensure generation limits are not exceeded.





RP-5 Hazardous Waste Storage Container

Award/Selection Criteria

Three proposals were received on June 5, 2020 and were scored based on pre-determined weighted criteria.

Selection Criteria

- Level of experience and knowledge of scope of work
- Record of performance (work history)
- Methodology to maintain a high standard of service
- Availability of staff to meet Agency's deadlines
- References
- Fees
- Exceptions taken to the specifications

Bidders Ranked using Selection Criteria

- 1. Radar Environmental
- 2. Clean Earth
- 3. NRC Environmental



Radar Environmental

Recommendation:

- Radar Environmental
 - Best Value: Best overall pricing for the Agency, past performance, experience.







Recommendation

- Approve the award of contract No. 4600002925 to Radar Environmental to provide Hazardous Material Handling Services for a total not-to-exceed amount of \$300,000 over two year period with three 1-year option to extend with CPI increases; and
- Authorize the General Manager to execute the service contract, subject to nonsubstantive changes.

The Hazardous Material Handling Services Contract is consistent *with IEUA's Business Goal of Environmental Stewardship* to enhance and promote environmental sustainability and preservation of the region's heritage. The key objective of regulatory compliance to comply with all federal, state, and environmental laws and regulations.





Draft CONTRACT NUMBER: 4600002925 FOR HAZARDOUS MATERIAL HANDLING SERVICES AT INLAND EMPIRE UTILITIES AGENCY

| THIS CONTRACT (the "Contract"), is made and entered into this day | y of |
|---|-------|
| , 2020, by and between the Inland Empire Utilities Agency, a Munic | cipal |
| Water District, organized and existing in the County of San Bernardino under and by virtu | ie of |
| the laws of the State of California (hereinafter referred to as "Agency" or "IEUA"), and Ra | adar |
| Environmental Services, Inc., of Anaheim, California (hereinafter referred to as "Contract | or"), |
| for the provision of Hazardous Material Handling Service(s), including transportation | and |
| disposal, as needed to support the on-going operation of IEUA's Wastewater Treatm | nent |
| Facilities, Recycles Water Distribution Facilities, and Non-Reclaimable Wastewater Facili | ties. |

NOW, THEREFORE, in consideration of the mutual promises and obligations set forth herein, the parties agree as follows:

 AGENCY PROJECT MANAGER ASSIGNMENT: All technical direction related to this Contract shall come from the designated Project Manager. Details of the Agency's assignment are listed below.

Project Manager: Lucia Diaz

Company Name: Inland Empire Utilities Agency, Building "B"

Address: 6075 Kimball Avenue

Chino, CA 91708

Telephone: 909-993-1631
Facsimile: 909-993-1987
Email: Idiaz@ieua.org

2. <u>CONTRACTOR ASSIGNMENT</u>: Special inquiries related to this Contract and the effects of this Contract shall be referred to the following:

Contractor: Colleen Donovan

Company Name: Radar Environmental Services, Inc.

Address: 751 Weir Canyon Road, Suite #157

Anaheim, CA 92808

Telephone: (714) 749-1177

Email: cdonovan@radarenvironmental.com

Cell: (909) 360-3615

- 3. <u>ORDER OF PRECEDENCE</u>: The documents referenced below represent the Contract Documents. Where any conflicts exist between the General Terms and Conditions the governing order of precedence shall be as follows:
 - Amendments to Contract Number 4600002925.
 - 2. Contract Number 4600002925 General Terms and Conditions.
 - 3. Agency's RFP-HD-20-008, see Exhibit A
 - 4. Contractor's Proposal, see Exhibit B
- 4. <u>SCOPE OF WORK AND SERVICES</u>: Contractor services and responsibilities shall include and be in accordance with the following:
 - A. Contractor will provide monthly (or more often, if needed) inspections to assist IEUA staff with the identification of hazardous wastes and waste disposal needs.
 - B. Following inspections, Contractor shall follow professional workflow processes, to complete the documentation, assure proper container(s) and packing protocols have been completed.
 - C. Contractor shall provide an estimate of the total cost to load, haul, and dispose of the hazardous material, for the designated Project Manager to review and approve.
 - D. Following approval, Contractor shall prepare waste material profiles, the manifest, and the proposed schedule for transportation to an appropriate disposal facility.
 - E. Contractor shall coordinate, with the Project Manager, at least one day in advance of the intended "pick-up date" planned for the hazardous waste transport, to assure Agency staff will be available to provide the required authorization and paperwork signatures.
 - F. In the event of unforeseen hazardous material events (leakage, spill, etc.) Emergency Response actions will be made available immediately, upon request (telephone or text message notification).
 - G. Contractor shall prepare and provide Agency with a proposed initial Routine Schedule of Services, documenting the anticipated schedule. The proposed Routine Schedule of Services shall be submitted to the Project Manager, for review and approval.
 - H. Method of Inspection:
 - 1. Work performed under this Contract shall be subject routine inspections.
 - 2. The Project Manager will be responsible for performance of the inspections.

3. If Contractor fails an inspection, the Project Manager will be responsible for providing a written notice to the Contractor explaining the error and a determination of the urgency for the correction of the error (herein referred to as a "Cure Notice").

I. Cure Procedure:

- 1. For a Cure Notice deemed by the Agency to be <u>urgent</u>, Contractor shall correct any error of the Work or Services within three (3) calendar days after Contractor's receipt of a Cure Notice, as directed by the Project Manager.
- 2. For a Cure Notice deemed by the Agency to be **important**, Contractor shall correct any error of the Work within seven (7) calendar days after Contractor's receipt of a Cure Notice, as directed by the Project Manager.
- 3. If the Project Manager rejects all, or any part of, the Work as unacceptable and agreement to correct such Work cannot be reached without modification to the Contract, Contractor shall notify the Project Manager, in writing, detailing the dispute and the reason(s) for the Contractor's position. Any dispute that cannot be resolved between the Project Manager and Contractor shall be resolved in accordance with the provisions of this Contract.
- J. The Agency may, at any time, make changes to this Contract's Scope of Work; including additions, reductions, and other alterations to any or all of the Work. However, such changes shall only be made via written amendment to this Contract. The Contract compensation and Schedule of Work and Services shall be equitably adjusted, if required, to account for such changes and shall be set forth within the mutually approved Contract Amendment.

K. Deliverables:

1. SCHEDULED SITE INSPECTIONS OF DESIGNATED COLLECTION POINTS, AND OTHER DESIGNATED AGENCY SITES/FACILITIES.

| SITE | FREQUENCY | ITEMS |
|-------------------------|-----------|---------------------------|
| RP-1 Waste oil Tank | Monthly | Waste Oil/Fluids |
| RP-1 Hazmat Coll. Ctr. | Monthly | E-waste, misc. |
| RP-1 Maint/PRB Building | Annually | Oil/Water Separators |
| RP-2 Waste Oil Tank | Monthly | Waste oil/fluids |
| RP-2 Cogen | Quarterly | Oily rags, e-waste, misc. |
| CCWRF | Quarterly | Oily rags, e-waste, misc. |
| CDA | Quarterly | Oily rags, e-waste, misc. |
| RP-5 New Regional Lab | Quarterly | Misc. lab waste |

- PACKAGING AND LABELING Ensure all items, collected for disposal, are properly packaged and labeled as required by all applicable regulations. Contractor should be able to provide appropriate packaging material for types of items to be disposed; e.g. drums, overpacks, gaylords, etc. Contractor shall also provide and ensure proper labels and information are filled out on all items staged for disposal.
- 3. TRANSPORT AND DISPOSAL Scheduling and dispatching of qualified transporters and equipment for disposal of accumulated items at collection sites. Contractor shall coordinate with designated collection site points of contacts to ensure access and availability of items scheduled for disposal.
- 4. DOCUMENTATION Contractor shall ensure that all required forms are in order for all items scheduled for disposal, including, but not limited to; manifests, bills of lading, chain-of-custody, etc. as required by regulation, and provide copies of the same.
- 5. OTHER SERVICES as required.
 - Hazmat profile analysis
 - Emergency Spill response
 - Training and review for RCRA manifest, PPE, spill mitigation, hazmat labeling.
 - Periodic site inspection reports.
 - Material support for packaging, labeling, etc.
- L. The Agency may, at any time, make changes to this Contract's Scope of Work; including additions, reductions, and other alterations to any or all of the Work. However, such changes shall only be made via written amendment to this Contract. The Contract compensation and Schedule of Work and Services shall be equitably adjusted, if required, to account for such changes and shall be set forth within the mutually approved Contract Amendment.
- 5. <u>TERM</u>: The term of this Contract shall extend from the date of the Notice to Proceed, and terminate upon completion on July 15, 2025, unless agreed upon by both parties, reduced to writing, and amended to this Contract. Upon Project Manager recommendation two optional one-year extensions may be implemented by mutually agreed-upon contract amendments.
- 6. PAYMENT, INVOICING, AND COMPENSATION:
 - A. The Contractor may submit an invoice not more than once per month during the term of this Contract to the Agency's Accounts Payable Department. Agency shall pay Contractor's properly executed invoice, approved by the Project Manager, within thirty (30) days following receipt of the invoice.
 - B. As compensation for the Work performed under this Contract, Agency shall pay Contractor's monthly invoice, up to a total contract price NOT-TO-EXCEED \$300,000 for all services satisfactorily provided during the term of this Contract.

- C. Additionally, to qualify for payment, the Contractor shall prominently display, on the first page of the invoice, both:
 - 1. The Contract Number 4600002925, and:
 - The Contract Release Purchase Order Number 45000_____

If Contractor submits invoice by email, such invoice shall be submitted as follows:

APGroup@ieua.org
Scan the invoice as a PDF file.
Attach the scanned file to an email.

If Contractor submits invoice by mail, such invoice shall be submitted as follows:

Inland Empire Utilities Agency Re: Contract Number: 4600002925 P.O. Box 9020

Chino Hills, CA 91709

- D. Concurrent with the submittal of the original invoice to the Agency's Accounts Payable Department, the Contractor shall forward (mail, fax, or email) a copy of the invoice to the designated Project Manager, identified in Section 1, on Page 1 of this Contract.
- E. No Additional Compensation: Nothing set forth in this Contract shall be interpreted to require payment by Agency to Contractor of any compensation specifically for the assignments and assurances required by the Contract, other than the payment of expenses as may be actually incurred by Contractor in complying with this Contract, as approved by the Project Manager.
- F. Commencing on March 1, 2022, and continuing each March 1st, thereafter, the Contractor may propose modifications to the prices provided in the Price Schedule of this contract. The Price Schedule may be adjusted, plus or minus, by a sum equal to the percentage change in the Consumer Price Index for All Urban Consumers (CPI-U), within the Los Angeles-Anaheim-Riverside, California index area. The basis for computing the adjustment to the contract prices shall reflect the percentage change for the twelve-month period from February to February, starting with the period of February, 2021, to February, 2022, and continuing every twelve months thereafter. Despite any changes in the CPI-U for any given twelve-month adjustment period, adjustments to the prices provided in the Proposed Price Schedule shall not increase or decrease more than five (5) percent during any single twelve-month adjustment period.

In the event the CPI-U is changed so that the base period differs from 1982-84=100, then the index applied, as provided for above, shall be corrected in accordance with the conversion factor published by the United States Department of Labor, Bureau of Labor Statistics, or their successor. If the CPI-U is discontinued or revised, such other government index or computation with which it is replaced shall be used to obtain, substantially, the same results as would have been obtained if the CPI-U had not been discontinued or revised.

- G. Contractor may request taking advantage of the Agency's practice of offering an expedited payment protocol to a Contractor who has proposed accepting an invoice amount reduction in exchange for early payment; (CONTRACTOR) has proposed, and the Agency has accepted, applying a (1%, 2%, or 5%) discount (invoice amount reduction) to monthly invoices in exchange for payment of all invoices within (20, 15, or 10) days, respectively, of the date the invoice is received at the Agency's APGroup@ieua.org email address.
- 7. CONTROL OF THE WORK: The Contractor shall perform the Work in compliance with the Schedule of Work and Services. If performance of the Work falls behind schedule, the Contractor shall accelerate the performance of the Work to comply with the Schedule of Work and Services as directed by the Project Manager. If the nature of the Work is such that Contractor is unable to accelerate the Work, Contractor shall promptly notify the Project Manager of the delay, the causes of the delay, and submit a proposed revised Schedule of Work and Services.
- 8. <u>INSURANCE</u>: During the term of this Contract, the Contractor shall maintain, at Contractor's sole expense, the following insurance.
 - A. <u>Minimum Scope of Insurance</u>: Coverage shall be at least as broad as:
 - 1. Commercial General Liability ("CGL"): Insurance Services Office ("ISO") Form CG 00 01 covering CGL on an "occurrence" basis, including products and completed operations, property damage, bodily injury and personal & advertising injury with limits no less than \$1,000,000 per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location (ISO CG 25 03 or 25 04) or the general aggregate limit shall be twice the required occurrence limit.
 - 2. Automobile Liability: ISO Form Number CA 00 01 covering any auto (Code 1), or if Contractor has no owned autos, covering hired, (Code 8) and non-owned autos (Code 9), with limit no less than \$1,000,000 per accident for bodily injury and property damage.
 - 3. Workers' Compensation and Employers Liability: Workers' compensation limits as required by the State of California, with Statutory Limits, and Employer's Liability Insurance with limit of no less than \$1,000,000 per accident for bodily injury or disease.
 - B. <u>Deductibles and Self-Insured Retention</u>: Any deductibles or self-insured retention must be declared to and approved by the Agency. At the option of the Agency, either: the insurer shall reduce or eliminate such deductibles or self-insured retention as respects the Agency, its officers, officials, employees and volunteers; or the Contractor shall procure a bond guaranteeing payment of losses and related investigations, claim administration and defense expenses.

- C. <u>Other Insurance Provisions</u>: The insurance policies are to <u>contain</u>, or be <u>endorsed to contain</u>, the following provisions:
 - 1. Commercial General Liability and Automobile Liability Coverage
 - a. Additional Insured Status: The Agency, its officers, officials, employees, and volunteers are to be covered as additional insureds on the CGL policy with respect to liability arising out of work or operations performed by or on behalf of the Contractor including materials, parts or equipment supplied in connection with such work or operations. General liability coverage can be provided in the form of an endorsement to the Contractor's insurance (at least as broad as ISO Form CG 20 10 11 85; or by either CG 20 10, CG 20 26, CG 20 33, or CG 20 38 and CG 20 37 forms if later revisions are used).
 - b. Primary Coverage: The Contractor's insurance coverage shall be primary insurance coverage at least as broad as ISO CG 20 01 04 13 as respects the Agency, its officer, officials, employees and volunteers. Any insurance or self-insurance maintained by the Agency, its officers, officials, employees, volunteers, property owners or engineers under contract with the Agency shall be excess of the Contractor's insurance and shall not contribute with it.
 - c. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the Agency, its officers, officials, employees or volunteers.
 - d. The Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
 - e. The Contractor may satisfy the limit requirements in a single policy or multiple policies. Any additional policies written as excess insurance shall not provide any less coverage than that provided by the first or primary policy.
 - 2. Workers' Compensation and Employers Liability Coverage

Contractor hereby grants to Agency a waiver of any right to subrogation which any insurer of the Contractor may acquire against the Agency by virtue of the payment of any loss under such insurance. Contractor agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the Agency has received a waiver of subrogation endorsement from the insurer.

3. All Coverages

Each insurance policy required by this Contract shall be <u>endorsed</u> to state that coverage shall not be suspended, voided, canceled by either party, or reduced in coverage or in limits except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to the Agency pursuant to Section 14, page 12 of this Contract.

- 4. Professional Liability (Errors and Omissions): Insurance appropriates to the Contractor's profession, with limit no less than \$1,000,000 per occurrence or claim, \$2,000,000 aggregate.
- D. <u>Acceptability of Insurers</u>: Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A minus:VII, and who are admitted insurers in the State of California.
- E. <u>Verification of Coverage</u>: Contractor shall provide the Agency with original certificates and amendatory endorsements or copies of the applicable policy language effecting coverage required by this clause. All certificates and endorsements are to be received and approved by the Agency before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the Contractor's obligation to provide them. The Agency reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.
- F. <u>Submittal of Certificates</u>: Contractor shall submit all required certificates and endorsements to the following:

Inland Empire Utilities Agency Attn: Angela Witte P.O. Box 9020 Chino Hills, CA 91709

9. FITNESS FOR DUTY:

- A. <u>Fitness</u>: Contractor and its Subcontractor personnel on the Jobsite:
 - 1. Shall report to work in a manner fit to do their job;
 - 2. Shall not be under the influence of or in possession of any alcoholic beverages or of any controlled substance (except a controlled substance as prescribed by a physician so long as the performance or safety of the Work is not affected thereby); and
 - Shall not have been convicted of any serious criminal offense which, by its nature, may have a discernible adverse impact on the business or reputation of the Agency.

B. <u>Compliance</u>: Contractor shall advise all personnel and associated third parties of the requirements of this Contract ("Fitness for Duty Requirements") before they enter on the Jobsite and shall immediately remove from the Jobsite any employee determined to be in violation of these requirements. Contractor shall impose these requirements on its Subcontractors. Agency may cancel the Contract if Contractor violates these Fitness for Duty Requirements.

10. LEGAL RELATIONS AND RESPONSIBILITIES:

- A. <u>Professional Responsibility</u>: The Contractor shall be responsible, to the level of competency presently maintained by other practicing professionals performing the same or similar type of work.
- B. <u>Status of Contractor</u>: The Contractor is retained as an independent Contractor only, for the sole purpose of providing the services described herein, and is not an employee of the Agency.
- C. Observing Laws and Ordinances: The Contractor shall keep itself fully informed of all existing and future state and federal laws and all county and city ordinances and regulations which in any manner affect the conduct of any services or tasks performed under this Contract, and of all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the same. The Contractor shall at all times observe and comply with all such existing and future laws, ordinances, regulations, orders and decrees, and shall protect and indemnify, as required herein, the Agency, its officers, employees and agents against any claim or liability arising from or based on the violation of any such law, ordinance, regulation, order or decree, whether by the Contractor, its employees, or subcontractors.
- D. Work Safety: Contract work requiring confine space entry must follow CalOSHA Regulation 8 CCR, Sections 5157 5158. This regulation requires the following to be submitted to IEUA for approval prior to the Contractor's mobilization to the work site:
 - Proof of training on confined space procedures, as defined in Cal-OSHA Regulation 8 CCR, Section 5157; and, 2. A written plan that includes; identification of confined spaces within the work site, alternate procedures where appropriate, contractor provisions and specific procedures for permit-required and non-permit required spaces and a rescue plan.
- E. <u>Hours of Labor</u>: The Contractor shall comply with all applicable provisions of California Labor Code Sections 1810 to 1815 relating to working hours. The Contractor shall, as a penalty to the Agency, forfeit \$25.00 for each worker employed in the completion of the Contract by the Contractor or by any subcontractor for each calendar day during which such worker is required or permitted to work more than eight hours in any one calendar day and forty (40) hours in any one calendar week in violation of the provisions of the Labor Code.

- F. <u>Liens</u>: Contractor shall pay all sums of money that become due from any labor, services, materials or equipment provided to Contractor on account of said services to be rendered or said materials to be provided under this Contract and that may be secured by any lien against the Agency. Contractor shall fully discharge each such lien at the time performance of the obligation secured matures and becomes due.
- G. <u>Indemnification</u>: Contractor shall indemnify the Agency, its directors, employees, and assigns, and shall defend and hold them harmless from all liabilities, demands, actions, claims, losses and expenses, including reasonable attorneys' fees, which arise out of, or are related to, the negligence, recklessness or willful misconduct of the Contractor, its directors, employees, agents, and assigns, in the performance of work under this contract.
- H. <u>Conflict of Interest</u>: No official of the Agency, who is authorized in such capacity and on behalf of the Agency to negotiate, make, accept or approve, or to take part in negotiating, making, accepting or approving this Contract, or any subcontract relating to services or tasks to be performed pursuant to this Contract, shall become directly or indirectly personally interested in this Contract.
- I. <u>Equal Opportunity</u>: During the performance of this Contract, the Contractor shall not unlawfully discriminate against any employee or employment applicant because of race, color, religion, sex, age, marital status, ancestry, physical or mental disability, sexual orientation, veteran status or national origin. The Agency is committed to creating and maintaining an environment free from harassment and discrimination.

J. <u>Disputes</u>:

- 1. All disputes arising out of or in relation to this Contract shall be resolved in accordance with this section. The Contractor shall pursue the work to completion in accordance with the instruction of the Agency's Project Manager notwithstanding the existence of a dispute. By entering into this Contract, both parties are obligated, and hereby agree, to submit all disputes arising under or relating to the Contract which remain unresolved after the exhaustion of the procedures provided herein, to independent arbitration. Except as otherwise provided herein, arbitration shall be conducted under California Code of Civil Procedure Sections 1280, et seq., or their successor.
- 2. Any and all disputes prior to the work starting shall be subject to resolution by the Agency's Project Manager; and the Contractor shall comply, with the Agency Project Manager instructions. If the Contractor is not satisfied with the resolution directed by the Agency Project Manager, they may file a written protest with the Agency Project Manager within seven (7) calendar days after receiving written directive of the Project Manager's decision. Failure by Contractor to file a written protest within seven (7) calendar days shall constitute waiver of protest,

and acceptance of the Project Manager's resolution. The Project Manager shall submit the Contractor's written protests to the General Manager, together with a copy of the Project Manager's written decision, for his or her consideration within seven (7) calendar days after receipt of the protest-related documents. The General Manager shall make his or her determination with respect to each protest filed with the Project Manager within ten (10) calendar days after receipt of the protest-related documents. If Contractor is not satisfied with any such resolution by the General Manager, they may file a written request for arbitration with the Project Manager within seven (7) calendar days after receiving written notice of the General Manager's decision.

- 3. In the event of arbitration, the parties to this contract agree that there shall be a single neutral Arbitrator who shall be selected in the following manner:
 - a. The Demand for Arbitration shall include a list of five names of persons acceptable to the Contractor to be appointed as Arbitrator. The Agency shall determine if any of the names submitted by Contractor are acceptable and, if so, such person will be designated as Arbitrator.
 - b. In the event that none of the names submitted by Contractor are acceptable to Agency, or if for any reason the Arbitrator selected in Step (a) is unable to serve, the Agency shall submit to Contractor a list of five names of persons acceptable to Agency for appointment as Arbitrator. The Contractor shall, in turn, have seven (7) calendar days in which to determine if one such person is acceptable.
 - c. If after Steps (a) and (b), the parties are unable to mutually agree upon a neutral Arbitrator, the matter of selection of an Arbitrator shall be submitted to the San Bernardino County Superior Court pursuant to Code of Civil Procedure Section 1281.6, or its successor. The costs of arbitration, including but not limited to reasonable attorneys' fees, shall be recoverable by the party prevailing in the arbitration. If this arbitration is appealed to a court pursuant to the procedure under California Code of Civil Procedure Section 1294, et seq., or their successor, the costs of arbitration shall also include court costs associated with such appeals, including but not limited to reasonable attorneys' fees which shall be recoverable by the prevailing party.
- 4. Association in Mediation/Arbitration: The Agency may join the Contractor in mediation or arbitration commenced by a contractor on the Project pursuant to Public Contracts Code Sections 20104 et seq. Such association shall be initiated by written notice from the Agency's representative to the Contractor.

- K. <u>Workers' Legal Status</u>: For performance against this Contract, Contractor shall only utilize employees and/or subcontractors that are authorized to work in the United States pursuant to the Immigration Reform and Control Act of 1986.
- 11. OWNERSHIP OF MATERIALS AND DOCUMENTS/CONFIDENTIALITY: The Agency retains ownership of any, and all, partial or complete reports, drawings, plans, notes, computations, lists, and/or other materials, documents, information, or data prepared by the Contractor and/or the Contractor's subcontractor(s) pertaining to this Contract. Said materials and documents are confidential and shall be available to the Agency from the moment of their preparation, and the Contractor shall deliver them to the Agency whenever requested to do so by the Project Manager and/or Agency representative. The Contractor agrees that all documents shall not be made available to any individual or organization, private or public, without the prior written consent of an Agency representative.

12. <u>TITLE AND RISK OF LOSS:</u>

- A. <u>Documentation:</u> Title to the Documentation shall pass to the Agency when prepared; however, a copy may be retained by Contractor for its records and internal use. Contractor shall retain such Documentation in a controlled access file, and shall not reveal, display, or disclose the contents of the Documentation to others without the prior written authorization of the Agency or for the performance of Work related to the Scope of Work described in this Contract.
- B. <u>Material</u>: Title to all Material, field or research equipment, and laboratory models, procured or fabricated under the Contract shall pass to the Agency when procured or fabricated, and such title shall be free and clear of any and all encumbrances. Contractor shall have risk of loss of any Material or Agency-owned equipment of which it has custody.
- C. <u>Disposition:</u> Contractor shall dispose of items to which the Agency has title as directed, in writing, by the Project Manager and/or an Agency representative.

13. PROPRIETARY RIGHTS:

- A. <u>Rights and Ownership:</u> Agency's rights to inventions, discoveries, trade secrets, patents, copyrights, and other intellectual property, including the Information and Documentation, and revisions thereto (hereinafter collectively referred to as "Proprietary Rights"), used or developed by Contractor in the performance of the Work, shall be governed by the following provisions:
 - 1. Proprietary Rights conceived, developed, or reduced to practice by Contractor in the performance of the Work shall be the property of Agency, and Contractor shall cooperate with all appropriate requests to assign and transfer same to Agency.
 - 2. If Proprietary Rights conceived, developed, or reduced to practice by Contractor prior to the performance of the Work are used in and become integral with the Work, or are necessary for Agency to have complete control of the Work, Contractor shall grant to Agency a non-exclusive,

irrevocable, royalty-free license, as may be required by Agency for the complete control of the Work, including the right to reproduce, correct, repair, replace, maintain, translate, publish, use, modify, copy or dispose of any or all of the Work and grant sublicenses to others with respect to the Work.

- 3. If the Work includes the Proprietary Rights of others, Contractor shall procure, at no additional cost to Agency, all necessary licenses regarding such Proprietary Rights so as to allow Agency the complete control of the Work, including the right to reproduce, correct, repair, replace, maintain, translate, publish, use, modify, copy, or dispose of any or all of the Work; and to grant sublicenses to others with respect to the Work. All such licenses shall be in writing and shall be irrevocable and royalty-free to Agency.
- 14. <u>NOTICES</u>: Any notice may be served upon either party by delivering it in person, or by depositing it in a United States Mail deposit box with the postage thereon fully prepaid, and addressed to the party at the address set forth below:

Agency: Warren T. Green

Manager of Contracts and Procurement

Inland Empire Utilities Agency

P.O. Box 9020

Chino Hills, CA 91709

Contractor: Colleen Donovan

Radar Environmental Services, Inc. 751 Weir Canyon Road, Suite #157

Anaheim, CA 92808

Any notice given pursuant to this section shall be deemed effective in the case of personal delivery, upon receipt thereof, or, in the case of mailing, at the moment of deposit in the course of transmission through the United States Postal Service.

- 15. <u>SUCCESSORS AND ASSIGNS</u>: All of the terms, conditions and provisions of this Contract shall take effect to the benefit of and be binding upon the Agency, the Contractor, and their respective successors and assigns. No assignment of the duties or benefits of the Contractor under this Contract may be assigned, transferred, or otherwise disposed of, without the prior written consent of the Agency; and any such purported or attempted assignment, transfer, or disposal without the prior written consent of the Agency shall be null, void, and of no legal effect whatsoever.
- 16. PUBLIC RECORDS POLICY: Information made available to the Agency may be subject to the California Public Records Act (Government Code Section 6250 et seq.) The Agency's use and disclosure of its records are governed by this Act. The Agency shall use its best efforts to notify Contractor of any requests for disclosure of any documents pertaining to this work. In the event of litigation concerning disclosure of information Contractor considers exempt from disclosure; (e.g., Trade Secret, Confidential, or Proprietary) Agency shall act as a stakeholder only, holding the

information until otherwise ordered by a court or other legal process. If Agency is required to defend an action arising out of a Public Records Act request for any of the information Contractor has marked "Confidential," "Proprietary," or "Trade Secret," Contractor shall defend and indemnify Agency from all liability, damages, costs, and expenses, in any action or proceeding arising under the Public Records Act.

- 17. RIGHT TO AUDIT: The Agency reserves the right to review and/or audit all Contractor's records related to the Work. The option to review and/or audit may be exercised during the term of the Contract, upon termination, upon completion of the Contract, or at any time thereafter up to twelve (12) months after final payment has been made to the Contractor. The Contractor shall make all records and related documentation available within three (3) working days after said records are requested by the Agency.
- 18. <u>INTEGRATION</u>: The Contract Documents represent the entire Contract made and entered into by and between the Agency and the Contractor as to those matters contained in this contract. No prior oral or written understanding shall be of any force or effect with respect to those matters covered by the Contract Documents. This Contract may not be modified, altered, or amended except by written mutual agreement by the Agency and the Contractor.
- 19. <u>GOVERNING LAW</u>: This Contract is to be governed by and constructed in accordance with the laws of the State of California, in the County of San Bernardino.
- 20. <u>TERMINATION FOR CONVENIENCE</u>: The Agency reserves and has the right to immediately suspend, cancel or terminate this Contract at any time upon written notice to the Contractor. In the event of such termination, the Agency shall pay Contractor for all authorized and Contractor-invoiced services up to the date of such termination, as approved by the Project Manager.
- 21. <u>FORCE MAJEURE</u>: Neither party shall hold the other responsible for the effects of acts occurring beyond their control; e.g., war, riots, strikes, natural disasters, etcetera.
- 22. <u>LIQUIDATED DAMAGES</u>: Liquidated Damages, in the amount of \$100 per day, may be assessed by the Agency for each calendar day that the Contractor fails to complete the services in accordance with the Work Schedule. Any and all Liquidated Damages assessed by the Agency will be taken as a direct credit against the Contractor's invoice for the missed services. The Contractor's acceptance of this contract, shall serve to indicate acceptance of this Liquidated Damages clause, and the daily assessment of damages expressed in this section.
- 23. <u>NOTICE TO PROCEED</u>: No services shall be performed or provided under this Contract unless and until this document has been properly signed by all responsible parties and a notice to proceed has been issued to the Contractor by the Project Manager.
- 24. <u>AUTHORITY TO EXECUTE CONTRACT</u>: The Signatories, below, each represent, warrant, and covenant that they have the full authority and right to enter into this Contract on behalf of the separate entities shown below.

25. <u>DELIVERY OF DOCUMENTS</u>: The Parties to this Contract and the individuals named to facilitate the realization of its intent, with the execution of the Contract, authorize the delivery of documents via facsimile, via email, and via portable document format (PDF) and covenant agreement to be bound by such electronic versions.

The parties hereto have caused the Contract to be entered as of the day and year written above.

| INLAND EMPIRE UTILITI (*A MUNICIPAL WATER D | | RADAR ENVIRONMENT S | ERVICES, INC.: |
|--|------------------|---------------------------------|----------------|
| Shivaji Deshmukh General Manager | (Date) | Colleen Donovan President | (Date) |
| | | | |
| (The remaine | der of this page | has been intentionally left bla | nk.) |

CONSENT CALENDAR ITEM

2G



To: The Honorable Board of Directors

Date: July 15, 2020

From: Shivaji Deshmukh, General Manager

200

Committee: Finance & Administration

07/08/20

Executive Contact: Christina Valencia, Executive Manager of Finance & Administration/AGM

Subject: Purchase of Agency-wide Insurance for FY 2020/21

Executive Summary:

Each year, the Agency purchases insurance policies to protect the Agency and the public against potential liabilities related to General, Auto, Fraud, Errors & Omissions, Property, Workers' Compensation, etc. Staff works closely with the Agency's insurance broker, Alliant Insurance Services, to evaluate the Agency's insurance program and needs, the insurance market and insurance programs available.

The process includes the completion of underwriter applications that identify the Agency's loss history, operations and exposures, operating budget, property and equipment values, as well as total wages. This information is compared against current market trends and industry losses in support of receiving renewal premiums. Premiums for FY 2020/21 are increasing by an average of 23 percent, or \$195,382, for a total of \$1,027,251. As summarized in Table 1 in the Background section, the increase is primarily driven by a 52 percent increase in Property, Boiler & Machinery premium due to several catastrophic losses in California and globally, market conditions, as well as a 21 percent increase in the Agency's Total Insured Value (TIV). The FY 2020/21 insurance premiums are below the adopted budget.

Staff's Recommendation:

Ratify the purchase of Agency-wide insurance policies providing coverage through Fiscal Year 2020/21, for the following amounts:

- a. Excess General Liability insurance in the amount of \$419,506;
- b. Property, Boiler & Machinery insurance in the amount of \$500,076;
- c. Excess Workers' Compensation insurance in the amount of \$86,929; and
- d. Master Crime/Fraud insurance in the amount of \$20,740.

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

Fiscal Impact (explain if not budgeted):

Prior Board Action:

On July 17, 2019, the Board approved the ratification of the purchase of Agency-wide insurance policies for coverage for FY 2019/20.

Environmental Determination:

Not Applicable

Business Goal:

The purchase of Agency-wide insurance policies support the Agency's commitment to safeguarding the Agency's fiscal health and effectively support the short and long term needs, while providing the best value to our customers.

Attachments:

Attachment 1 - Background

Board-Rec No.: 20163



Background

Subject: Purchase of Agency-wide Insurance Policies for FY 2020/21

Insurance premiums for FY 2020/2021 are increasing by an average of 23 percent for a total of \$1,027,251, as summarized in Table 1. The increase is primarily driven by a 52 percent increase in the Property, Boiler & Machinery premium to \$500,076, due to the catastrophic losses in California and globally, the overall state of the insurance market, as well as a 21 percent increase in the Agency's Total Insured Value (TIV). The increase in the Agency TIV is the result of several Agency facility property schedules being updated through the 2019 property appraisals, as well as the addition of the Agency's new water quality laboratory. The 3 percent increase in the premium for Excess Liability to \$419,506 is due to the increase in exposures (payroll, budget), with all other policy terms unchanged. The increases in exposure (payroll, employee count), also resulted in an increase of approximately 13 percent to \$86,929 to the Excess Workers' Compensation premium. The premium for the Agency Master Crime policy increased by 1 percent to \$20,740.

As we entered 2019, we were in the process of completing property appraisals for several IEUA facilities. In anticipation of significant increases, we increased the budget to absorb the additional premium. However, the appraisals were not finalized in time to apply to the 2019 policy period's schedule of values.

Table 1: FY 2020/21 Insurance Premium Summary

| Insurance | Coverage Limits | Self- Insured Retention (SIR) | FY 2019/20 Premium | FY 2020/21 Premium | Percent Change | FY 2019/20 Budget | FY 2019/20 Budget |
|------------------------------------|-------------------------|--|--------------------------|--------------------------|-------------------|--------------------------------------|----------------------|
| General Liability\$ | \$20,000,000 | \$1,000,000 | \$406,495 | \$419,506 | 3% | \$1,005,000 *Budget | \$1,100,000 |
| Property, Boiler & Machinery | Schedule | \$25,000 | \$328,580 | \$500,076 | 52% | increase based on anticipation | |
| | Total Insured (\$1,0 | ` ' | \$592,804 | \$716,837 | 21% | of 2019 property appraisals | |
| Workers' Comp | \$25,000,000 | \$1,000,000 | \$76,846 | \$86,929 | 13% | | |
| Master Crime | \$15,000,000 | \$2,500 | \$19,948 | \$20,740 | 1% | | |
| Total Premiums | | | \$831,869 | \$1,027,251 | 23% | | |

CONSENT CALENDAR ITEM

2H



Date: July 15, 2020

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

Committee: Engineering, Operations & Water Resources 07/08/20

Finance & Administration 07/08/20

Executive Contact: Christiana Daisy, Executive Manager of Engineering/AGM

Subject: RP-4 Aeration Basin Diffuser Replacement and Wall Reinforcement Construction

Contract Award

Executive Summary:

In the 2005 expansion of the Regional Water Recycling Plant No. 4 (RP-4), the three oxidation ditches were modified into six aeration basins by extending the center dividing walls of each basin in the north and south directions. Recently, staff discovered the added walls could not support the differential pressure created by operating one side of the basin. This project will construct concrete counterforts on the center walls of all three basin to strengthen these walls. In addition, the existing aeration panel diffusers are nearing the end of useful life and are no longer being supported by the diffuser manufacturer; therefore, this project will replace the diffusers with new SSI aeration disc style diffusers.

On May 5, 2020, bids were advertised to a group of eleven prequalified contractors. On June 9, 2020, Inland Empire Utilities Agency (IEUA) received eight construction bids. Genesis Construction, was the lowest responsive, responsible bidder with a bid price of \$4,102,444; engineer's estimate was \$4,620,000. The construction contract award was unanimously recommended for IEUA Board approval by the Regional Technical and Policy Committees. For continuity, staff requests the existing contract with Carollo Engineers Inc., be amended by \$176,156 to include engineering services during construction, increasing the contract value from \$3,006,870 to \$3,183,026 (5% increase).

Staff's Recommendation:

- 1. Award a construction contract for the Aeration Basin Diffuser Replacement and Wall Reinforcement, Project No. EN17110, to Genesis Construction, in the amount of \$4,102,444;
- 2. Approve a contract amendment to Carollo Engineers Inc., for engineering services during construction for a not-to-exceed amount of \$176,156; and
- 3. Authorize the General Manager to execute the contract and contract amendment, subject to non-substantive changes.

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

Account/Project Name:

EN17110.03/Aeration Basin Diffuser Replacement and Wall Reinforcement Project

Fiscal Impact (explain if not budgeted):

None.

Prior Board Action:

The Board of Directors awarded several amendments to Carollo's contract for consultant engineering services for the RP-4 Primary Clarifier and Process Rehabilitation since the original contract award for additional scope and construction management services.

Environmental Determination:

Categorical Exemption

CEQA exempts a variety of projects from compliance with the statue. This project qualifies for a Categorical Exemption as defined in Section 15301 of the State CEQA Guidelines.

Business Goal:

The Aeration Basin Diffuser Replacement and Wall Reinforcement 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, sustainably managed, and can accommodate changes in regional water use.

Attachments:

Attachment 1 - PowerPoint

Attachment 2 - Construction Contract

Attachment 3 - Consultant Amendment

Attachment 1

RP-4 Aeration Basin Diffuser Replacement and Wall Reinforcement Construction Contract Award

Project No. EN17110.03







June 2020



Project Location





The Project

- Replace panel diffusers with SSI disc diffusers
- Install new sprayers and RW piping
- Coat the ductile iron piping
- Install counterforts to strengthen aeration basin's center walls
- Install drainage sumps



Existing Panel Diffusers



Proposed Disc Diffuser System



Contractor Selection

Eight bids were received on June 9, 2020, from prequalified contractors:

| Bidder's Name | Final Bid Amount |
|------------------------------------|------------------|
| Genesis Construction | \$4,102,444 |
| Innovative Construction Solutions | \$4,380,400 |
| Stanek Constructors | \$4,427,000 |
| J.R. Filanc Construction Co., Inc. | \$4,455,982 |
| Kiewit Infrastructure West Co. | \$4,667,000 |
| J.F. Shea Construction, Inc. | \$4,860,000 |
| PCL Construction, Inc. | \$5,190,000 |
| W.A. Rasic Construction Company | \$5,588,855 |
| Engineer's Estimate | \$4,620,000 |



Project Budget and Schedule

| Description | Estimated Cost |
|--|-----------------------|
| Design Services | \$138,598 |
| Design Consultant Contract | \$105,720 |
| IEUA Design Services (actuals) | \$32,878 |
| Construction Services | \$401,156 |
| Engineering Services During Construction | \$176,156 |
| IEUA Construction Services (~5%) | \$225,000 |
| Construction | \$4,512,694 |
| Construction Contract (this action) | \$4,102,444 |
| Contingency (~10%) | \$410,250 |
| Total Project Cost (This project): | \$5,052,448 |
| Total Project Cost (Process Improvements): | \$16,015,162 |
| Total Project Cost (Trident Filter): | \$5,000,000 |
| Total Project Costs (All) | \$26,067,610 |
| Total Project Budget: | \$28,643,938 |

| Project Milestone Date | |
|-----------------------------|----------------|
| Construction | |
| Construction Contract Award | July 2020 |
| Construction Completion | September 2021 |



Recommendation

- Award a construction contract for the Aeration Basin Diffuser Replacement and Wall Reinforcement, Project No. EN17110, to Genesis Construction, in the amount of \$4,102,444;
- Approve a contract amendment to Carollo Engineers Inc., for engineering services during construction for a not-to-exceed amount of \$176,156; and
- Authorize the General Manager to execute the contract and contract amendment, subject to non-substantive changes.

The RP-4 Aeration Basin Diffuser Replacement and Wall Reinforcement 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

RP-4 AERATION BASIN DIFFUSER REPLACEMENT AND WALL REINFORCEMENT CONTRACT

1.0 CONTRACT

| THIS CONTRACT, made and entered into this _ | day of | , 2020, by and |
|--|--------------------|----------------|
| between Genesis Construction, hereinafter refer | red to as "CON" | TRACTOR," and |
| The Inland Empire Utilities Agency, a Municipal \ | Nater District, lo | ocated in San |
| Bernardino County, California, hereinafter referre | ed 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 <u>EN17110.03 RP-4 Aeration</u>

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

| Total Bid Price \$ 4,102,444 and 0 Cen |
|--|
|--|

- 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 Four-Hundred Twenty-five (425) calendar days after award of the Contract. All Work shall be completed before final payment is made.
- **G.** Time is of the essence on this Contract.
- H. CONTRACTOR agrees that in case the Work is not completed before or upon the expiration of the Contract Time, damage will be sustained by IEUA, and that it is and will be impracticable to determine the actual damage which IEUA will sustain in the event and by reason of such delay, and it is therefore agreed that the CONTRACTOR shall pay to IEUA the amounts as set forth in General Conditions, Section C Changes to the Contract for each day of delay, which shall be the period between the expiration of the Contract Time and the date of final acceptance by IEUA, as liquidated damages and not as a penalty. It is further agreed that the amount stipulated for liquidated damages per day of delay is a reasonable estimate of the damages that would be sustained by IEUA, and the CONTRACTOR agrees to pay such liquidated damages as herein provided. In case the liquidated damages are not paid, the CONTRACTOR agrees that IEUA may deduct the amount thereof from any money due or that may become due to the CONTRACTOR by progress payments or otherwise under the Contract, or if said amount is not sufficient, recover the total amount.
- I. In addition to the liquidated damages, which may be imposed if the CONTRACTOR fails to complete the Work within the time agreed upon, IEUA may also deduct from any sums due or to become due to the CONTRACTOR, penalties and fines for violations of applicable local, state, and federal law.
- J. That the CONTRACTOR shall carry Workers' Compensation Insurance and require all subcontractors to carry Workers' Compensation Insurance as required by the California Labor Code.

- K. That the CONTRACTOR shall have furnished, prior to execution of the Contract, two bonds approved by IEUA, one in the amount of one hundred (100) percent of the Contract Price, to guarantee the faithful performance of the Work, and one in the amount of one hundred (100) percent of the Contract Price to guarantee payment of all claims for labor and materials furnished.
- L. The CONTRACTOR hereby agrees to protect, defend, indemnify and hold IEUA and its employees, 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. | Hemet Manufacturing Company, Inc. |
| • | dba Genesis Construction |
| Ву | By Candace D. Cerry |
| General Manager | Candace D. Perry √ |
| | President |
| | Title |

^{*} A Municipal Water District

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT Civil Code § 1189 A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy or validity of that document. STATE OF CALIFORNIA County of Riverside , Notary Public, 6-17-2020 before me, Tia M. Clark Insert Name of Notary exactly as it appears on the official seal Date personally appeared Candace D. Perry Name(s) of Signer(s) who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. TIA M. CLARK I certify under PENALTY OF PERJURY under the laws of Notary Public - California the State of California that the foregoing paragraph is true Riverside County Commission # 2197500 and correct. My Comm. Expires Jun 13, 2021 Witness my hand and official seal. Signature Signature of Notary Public Place Notary Seal Above OPTIONAL -Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of the form to another document. **Description of Attached Document** Title or Type of Document: Contract Document Number of Pages: Document Date: Signer(s) Other Than Named Above: Capacity(ies) Claimed by Signer(s) Signer's Name: Signer's Name: ☐ Individual ☐ Individual ☐ Corporate Officer — Title(s): ✓ Corporate Officer — Title(s): Pres. Secy. Treasurer ☐ Partner ☐ Limited ☐ General Partner ☐ Limited ☐ General ☐ Attorney in Fact ☐ Attorney in Fact RIGHT THUMBPRINT RIGHT THUMBPRINT OF SIGNER ☐ Trustee ☐ Trustee OF SIGNER ☐ Guardian or Conservator Guardian or Conservator Top of thumb here Top of thumb here Other: ☐ Other:

Signer is Representing:

Signer is Representing:

Hemet Mfg. Co., Inc. dba
Genesis Construction

Attachment 3



CONTRACT AMENDMENT NUMBER: 4600002243-010 FOR

PROJECT MANAGEMENT AND DESIGN SERVICES FOR THE RP-4 PRIMARY CLARIFIER REHABILITATION PROJECT NO. EN17043 AND RP-4 PROCESS REHABILITATION PROJECT Nos. EN17110, EN17110.01, & EN17110.03

THIS CONTRACT AMENDMENT TEN is made and entered into this _____ day of _____, 2020, by and between the Inland Empire Utilities Agency, a Municipal Water District, organized and existing in the County of San Bernardino under and by virtue of the laws of the State of California (hereinafter referred to interchangeably as "IEUA" and "Agency") and Carollo Engineers, Inc. with offices located in Riverside, Irvine, and Los Angeles, California (hereinafter referred to as "Consultant") for Project Management and Design Services for the RP-4 Primary Clarifier Rehabilitation, Project No. EN17043, and RP-4 Process Rehabilitation, Project Nos. EN17110, EN17110.01, and EN17110.03, and shall revise the Contract as herein amended:

<u>SECTION THREE, SCOPE OF WORK AND SERVICES, IS REVISED TO ADD THE FOLLOWING PARAGRAPH</u>: Additional services and responsibilities shall include and be in accordance with Consultant's proposal dated June 5, 2020 which is incorporated herein, attached hereto, and made a part hereof as **Exhibit L**.

SECTION FIVE, COMPENSATION, ADDS THE FOLLOWING PARAGRAPH AS FOLLOWS: As compensation for additional work performed under this Contract Amendment Ten, Agency shall pay Consultant a **NOT-TO EXCEED maximum of \$3,202,503.00,** which represents an increase of \$176,156.00 to the Contract as proposed by **Exhibit L**.

ALL OTHER PROVISIONS OF THIS CONTRACT REMAIN UNCHANGED.

[Signature Page Immediately Follows]

Witnesseth, that the parties hereto have mutually covenanted and agreed as per the above Amendment items, and in doing so have caused this document to become incorporated into the contract documents.

| INLAND EMPIRE UTILITIES AGENCY: | CAROLLO ENGINEERS, INC.: |
|--|---|
| (A Municipal Water District) | / / Ann 6/24/2 |
| Shivaji Deshmukh (Date) General Manager | Dr. Graham Juby, P.E. (Date) Principal-in-Charge / Vice President |
| | Eric M. Mills (Date) Senior Vice President |

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Exhibit L



June 5, 2020

Mr. Jerry Burke Deputy Manager of Engineering Inland Empire Utilities Agency 6075 Kimball Avenue Chino, CA 91708

Subject: RP-4 Aeration Basin Diffuser Replacement & Wall Reinforcement Project (EN17110.03) -

Engineering Services During Construction Amendment Letter Proposal (Amendment 10)

Dear Mr. Burke:

As requested, Carollo Engineers, Inc. (Carollo), has prepared this letter proposal for engineering services during construction for IEUA project EN17110.03 for your review and consideration.

Engineering Services During Construction (ESDC)

The ESDC scope of work to be performed by Carollo is summarized as follows:

- Prepare conformed plans and specifications.
- Review submittals and shop drawings.
- Provide change order technical support.
- Prepare responses to Contractor requests for information (RFIs).
- Prepare design document clarification.
- Update standard operating procedures (SOPs).
- Prepare record drawings.
- Attend construction meetings and site visits during construction.

The scope of work does not include construction management or inspection services at this time.

ESDC Estimate

Carollo identified necessary ESDC services for EN17110.03. We developed estimates using a bottoms-up approach. This approach includes identification of project elements and tasks necessary to complete ESDC for the project followed by level-of-effort hours estimate for each project task. As an example, Carollo developed a comprehensive anticipated project submittal list for IEUA's review and consideration. General ESDC project elements for the bottoms-up level-of-effort estimation approach include:

- Project engineer to visit site 10 times during the course of construction, and project engineer will call in to 10 weekly construction meetings.
- Prepare 27 conformed drawings.



Mr. Jerry Burke Inland Empire Utilities Agency June 5, 2020

Page 2

- Review of 43 submittals and 15 re-submittals.
- Respond to 50 Contractor RFIs/RFCs.
- Provide change order technical support for two change orders.
- Provide one design document clarification.
- Prepare 27 record drawings.

Our proposed fee of \$176,156 for the above noted ESDC for EN17110.03 is described in detail in the attached fee estimate and basis of fee estimate.

Closing

Based on our review of the scope of work to be included with the \$176,156 ESDC effort for EN17110.03, Carollo requests that IEUA review the attached documents and scope of work for discussion. Once the final scope of work for ESDC has been agreed upon, we will initiate the ESDC effort for EN17110.03.

Please let the undersigned know if you have any questions, information requests, or if you would like to sit down and review the ESDC scope of work and associated engineering effort.

Sincerely,

CAROLLO ENGINEERS, INC.

Graham Juby, Ph.D., P.E.

Vice President

GJ/RPI:jrb

Roland Pilemalm, P.E. Associate Vice President

Project Management and Design Services for RP-4 Aeration Basin Diffuser Replacement & Wall Reinforcement Project, Project No. EN17110.03

Carollo Engineers

Basis of Fee Estimate for Engineering Services during Construction Amendment No. 10

Fee estimate and associated level-of-effort is based upon the Request for Proposal (RFP-RW-16-021) scope of work and the letter proposal Scope of Work, and the following assumptions and considerations:

- Consultant services will be performed on a time and materials (T&M) basis using 2020 billing rates. 2020 billing rates are shown in the attached fee estimate.
- Construction schedule will be the listed 12 months and will occur continuously.
- Construction Management and Inspection services are not included at this time.
- Project engineer to visit site 10 times during course of construction (6 hours per site visit) and project engineer will call in to 10 weekly construction meetings (1 hour per call).
- Prepare 27 conformed drawings incorporating bid phase revisions (24 hours total)
- Review of 43 submittals and 15 re-submittals. (8 hours per submittal and 4 hours per resubmittal)
- Respond to 50 Contractor RFIs/RFCs. (4 hours per RFI)
- Provide change order technical support for two change orders (16 hours per change order)
- Provide one design document clarification (24 hours per design document clarification)
- Prepare 27 record drawings (1.5 hours per record drawing)
- 2nd paragraph of Section I (Control philosophy \ programming) from the scope of work is either not required for this project or IEUA will perform this work.
- The Contractor will hire the DCS system integrator under the Construction Contract for this project. Therefore, the 3rd paragraph of Section I (Control philosophy \ programming) from the scope of work does not apply to this project and the IEUA/Carollo Agreement for this project.
- Construction Management and Inspection services are not included at this time. Therefore the
 following sections from the RFP/Agreement scope of work are not included for the construction
 phase of the project J.i., J.iii., J.iv., J.vi., J.xi., and J.xii.
- Section L (Training) from the RFP/Agreement scope of work is not required for this project.

Project Management and Design Services for RP-4 Aeration Basin Diffuser Replacement & Wall Reinforcement Project, Project No. EN17110.03

Work Breakdown Structure and Fee Estimate for Amendment No. 10 (Engineering Services during Construction)

| | | ESTIMATED LABOR HOURS | | | | | TOTAL COSTS | | | | | | | | | | | |
|--|----------|-----------------------|------------------------------|-------------------------|--------------|---------------------------|----------------------|---------------------|-------------------------|----------------------|-----------|-------------------------|------------------------|------------------------------------|------------|----------|-----------------------|-------------|
| Task Description | Senior | Professional | Lead Project Professional | Project Professional | Professional | Assistant Professional | Senior Technician | Technician (CAD) | Construction Manager | General Inspector | Scheduler | Electrical Inspector | Document Processing | Total Hours (incl sub hours) | Labor Cost | PECE | Other Direct Costs | Total Costs |
| Hourly | Rate \$2 | 281 | | | | | \$177 | \$126 | \$170 | \$154 | \$186 | \$154 | | | | | | |
| Engineering Services During Const. | | | | | | | | | | | | | | 0 | \$0 | \$0 | \$0 | \$0 |
| Construction Meetings and Project Management | | | 16 | | | 80 | | | | | | | | 96 | \$17,772 | \$1,123 | \$500 | \$19,395 |
| Prepare Conformed Set of Drawings | | | | | | 20 | | | | | | | 4 | 24 | \$3,840 | \$281 | \$50 | \$4,171 |
| Submittal Review | | 6 | 24 | 54 | 80 | 240 | | | | | | | | 404 | \$78,229 | \$4,727 | \$50 | \$83,005 |
| Respond to RFIs/RFCs | | 2 | 10 | 36 | 52 | 100 | | | | | | | | 200 | \$39,591 | \$2,340 | \$50 | \$41,981 |
| Change Order Technical Support | | 2 | 3 | 3 | 6 | 18 | | | | | | | | 32 | \$6,368 | \$374 | \$50 | \$6,792 |
| Prepare Document Clarifications | | | 2 | 2 | 2 | 18 | | | | | | | | 24 | \$4,471 | \$281 | \$50 | \$4,801 |
| Record Drawings | | | | 3 | | 38 | | | | | | | | 41 | \$7,142 | \$480 | \$50 | \$7,672 |
| Update SOP's | | | | 4 | | 40 | | | | | | | | 44 | \$7,723 | \$515 | \$100 | \$8,338 |
| TOTAL | 1 | 10 | 55 | 102 | 140 | 554 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 865 | \$165,135 | \$10,121 | \$900 | \$176,156 |

Aeration Basin Diffuser Replacement and Wall Rehabilitation Project Engineering Services During Construction



Submittal Review Estimate

| Jabiiiittai | Review Estillate | | | |
|-------------|--|------------------------|------------|---|
| Section No. | Title | Submittal Required? | Discipline | Anticipated No. of Submittals ⁽¹⁾ |
| 01116 | Contract Document Language | NO | General | 0 |
| 01140 | Work Restrictions | YES | General | 0 |
| 01312 | Project Meetings | NO | General | 0 |
| 01322 | Web Based Construction Document Management | NO | General | 0 |
| 01329 | Safety Plan | YES | General | 0 |
| 01410 | Regulatory Requirements | NO | General | 0 |
| 01450 | Quality Control | NO | General | 0 |
| 01455 | Special Tests and Inspections | NO | General | 0 |
| 01600 | Product Requirements | NO | General | 0 |
| 01610 | Project Design Criteria | NO | General | 0 |
| 01612 | Seismic Design Criteria | YES | General | 0 |
| 01614 | Wind Design Criteria | YES | General | 0 |
| 01738 | Selective Alterations and Demolition | NO | General | 0 |
| 01756 | Commissioning | YES | General | 0 |
| 01770 | Closeout Procedures | YES | General | 0 |
| 01783 | Warranties and Bonds | NO | General | 0 |
| 02050 | Soils and Aggregates for Earthwork | YES | Civil | 0 |
| 02300 | Earthwork | YES | Civil | 0 |
| 03055 | Adhesive-Bonded Reinforcing Bars and All Thread Rods in Concrete | YES | Structural | 1 |
| 03071 | Epoxies | YES | Structural | 1 |
| 03072 | Epoxy Resin/Portland Cement Bonding Agent | YES | Structural | 1 |
| 03102 | Concrete Formwork | YES | Structural | 2 |
| 03150 | Concrete Accessories | YES | Structural | 2 |
| 03200 | Concrete Reinforcing | YES | Structural | 2 |
| 03300 | Cast-In-Place Concrete | YES | Structural | 2 |
| 03366 | Tooled Concrete Finishing | NO | Structural | 0 |
| 03600 | Grouting | YES | Structural | 0 |
| 03925 | Concrete Coatings | YES | Structural | 0 |
| 03926 | Structural Concrete Repair | YES | Structural | 1 |
| 03931 | Epoxy Injection System | YES | Structural | 1 |
| 05120 | Structural Steel | YES | Structural | 2 |
| 05190 | Mechanical Anchoring And Fastening To Concrete And Masonry | YES | Structural | 2 |
| 09960 | High-Performance Coatings | YES | Process | 0 |
| 11378A | Fine Bubble Diffused Aeration System - Disk | YES | Process | 4 |
| 13446 | Manual Actuators | YES | Process | 1 |
| 15050 | Common Work Results for Mechanical Equipment | NO | Process | 0 |
| 15052 | Common Work Results for General Piping | YES | Process | 3 |
| 15061 | Pipe Supports | YES | Process | 3 |
| 15062 | Preformed Channel Pipe Support System | YES | Process | 2 |
| 15075 | Equipment Identification | YES | Process | 0 |
| 15076 | Pipe Identification | YES | Process | 0 |
| | | | | |

Aeration Basin Diffuser Replacement and Wall Rehabilitation Project Engineering Services During Construction



Submittal Review Estimate

| Section No. | Title | Submittal Required? | Discipline | Anticipated No. of Submittals ⁽¹⁾ |
|-------------|---|------------------------|-------------------------|---|
| 15110 | Common Work Results for Valves | NO | Process | 0 |
| 15111 | Ball Valves | YES | Process | 1 |
| 15112 | Butterfly Valves | YES | Process | 1 |
| 15115 | Gate, Globe, and Angle Valves | YES | Process | 1 |
| 15119 | Air and Vacuum Relief Valves | YES | Process | 1 |
| 15121 | Pipe Couplings | YES | Process | 2 |
| 15259 | Chlorinated Polyvinyl Chloride (CPVC) Pipe: ASTM F441 | YES | Process & Structural | 2 |
| 15278 | Steel Pipe | YES | Process | 1 |
| 15286 | Stainless Steel Pipe and Tubing | YES | Process | 2 |
| 15956 | Piping Systems Testing | YES | Process | 2 |
| 15958 | Mechanical Equipment Testing | NO | Process | 0 |

TOTAL UNIQUE SUBMITTALS: 43

Notes:

(1) Anticipated number of submittals includes unique submittals only; number of resubmittals were not included.

ACTION ITEM

3A



Date: July 15, 2020

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

Committee:

Executive Contact: Shivaji Deshmukh, General Manager

Subject: California Association of Sanitation Agencies (CASA) Election of Directors for Fiscal Year 2020/21 and Proposed Annual Membership Dues for Calendar Year 2021

Executive Summary:

Due to the pandemic situation, this year the CASA Conference will held virtually. Traditionally, election of the Directors voting is conducted in-person at the annual business meeting, during the CASA Conference. Membership will be asked to vote by written (electronic) ballot for a slate of four nominees for the open seats on the CASA Board of Directors, and the 2021 Annual Membership Dues Resolution. The Directors will serve a three-year term. Agency representative may cast their vote up until 5:00 p.m. on Friday, July 31, 2020. The slate was recommended by the Nominating Committee and approved by the Board of Directors. The nominees are:

- Roger Bailey, Central Contra Costa San. District (Manager North)
- Jasmin Hall, Inland Empire Utilities Agency (Director South)
- David Cardenas, Selma-Kings-Fowler Sanitation District (Director North)
- Craig Murray, Carpinteria Sanitary District (Manager South)

Brief biographies of the nominees and the proposed CASA Annual Member Dues Resolution are attached.

Staff's Recommendation:

- 1. Approve or not approve the recommended slate of the four nominees to the four available Board seats; and
- 2. Approve the proposed CASA Annual Membership Dues Proposed Resolution for calendar year 2021.

| Budget Impact | Budgeted (Y/N): N | Amendment (Y/N): Y | Amount for Requested Approval: |
|----------------------|-------------------|--------------------|--------------------------------|
| Account/Project | Name: | | |
| None. | | | |
| | | | |

Fiscal Impact (explain if not budgeted):

None.

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

Prior Board Action:

At the August 21, 2019 Board meeting, the Board voted for the slate of nominees for the open seats on the CASA Board of Directors.

At the February 19, 2020 Board meeting, the Board approved the annual CASA dues in the amount of \$20,053.

Environmental Determination:

Not Applicable

Business Goal:

Attachments:

Attachment 1 - Memo from CASA's President on Annual Business Meeting

Attachment 2 - Biographies of CASA Board Of Directors FY 2020/21 Nominees

Attachment 3 - CASA Annual Membership Dues Proposed Resolution

Attachment 4- Official Ballot

Board-Rec No.: 20171



SA CALIFORNIA ASSOCIATION of SANITATION AGENCIES

1225 8th Street, Suite 595 Sacramento, CA 95814 • TEL: (916) 446-0388 • www.casaweb.org

June 29, 2020

TO: Member Agencies Bill

FROM: Long, President

SUBJECT: ANNUAL BUSINESS MEETING—AUGUST 13, 2020 & ACTION ON

BOARD ELECTION AND DUES BY ELECTRONIC BALLOT

This year, in order to prioritize the health and safety of our attendees, speakers, and staff, and to ensure that our clean water community avoids the risk of exposure to SARS-CoV-2, CASA has converted its traditional in-person Annual Conference to a virtual event. Our annual business meeting has traditionally been part of our in-person meeting each year, where the membership elects new directors to the CASA Board and approves the annual member dues resolution.

Due to this shift to a virtual format, the CASA Board has decided to have the members vote on these actions exclusively by written (electronic) ballot, separate and apart from the business meeting. CASA will hold its official "annual meeting" virtually on August 13, 2020 as part of the luncheon program during the Virtual Annual Conference. At the meeting we will report the results of the electronic balloting.

Included with this memorandum are several documents that are essential to conducting important association business, including a designation of agency representative form and an official ballot form for the proposed dues as well as the election of the Board of Directors nominees. Below is a short summary of those matters before you for approval.

Election of Directors for FY 2020-21

Utilizing a written (electronic) ballot, the membership will be asked to approve a slate of four nominees for the open seats on the Board of Directors. The Directors will serve three year terms. The slate was recommended by the Nominating Committee and approved by the Board of Directors. The nominees are:

- Roger Bailey, Central Contra Costa San. District (Manager North)
- Jasmin Hall, Inland Empire Utilities Agency (Director South)
- David Cardenas, Selma-Kings-Fowler Sanitation District (Director North)
- Craig Murray, Carpinteria Sanitary District (Manager South)

Brief biographies of the nominees are attached. The Board consists of 13 Directors, 12 elected by the members and one Associate Director appointed by the President. If elected, the four Directors will join eight incumbents. In addition to the elected Directors, the President will appoint a new Associates Director, Chris Davenport of Covello Group, to a one-year term. The Board of Directors will then elect a President, Vice President and Secretary-Treasurer for one-year terms.

As noted above, the election will take place by electronic ballot. Agency representatives may cast their votes up until 5:00 p.m. on Friday, July 31, 2020.

Approval of the Dues Resolution

Utilizing a written (electronic) ballot, the membership will be asked to approve the annual dues resolution. This year, the resolution reflects changes to the dues structure and tiers. These structural changes to the agency member dues tiers structure were approved by the Board

of Directors earlier this year. More information and a frequently asked questions document regarding these changes is available <u>here</u>. This information was also distributed to all members through the CASA Connects newsletter and direct outreach in May of this year. A copy of the official dues resolution is included in the official ballot that accompanies this memorandum.

In brief, the new proposed structure is designed to serve the membership in a more strategic and thoughtful way. In an effort to soften the financial transition for agencies with smaller operating budgets moving between lower tiers, and to attract and retain members in these tier ranges, CASA developed this new structure which expands the number and levels of dues tiers. These structural changes are designed to be revenue neutral for CASA as an organization and establish a new baseline for the future.

If the proposed changes are adopted by the membership, the 2021 invoices sent out in late 2020 will reflect the new dues tiers. There are no proposed changes to the Associates dues for 2021. In addition, typically CASA makes its annual budget available to annual meeting attendees in hard copy format. This year, members may request a copy of the FY 2021 Budget, approved by the Board on June 9, 2020, and the year-end FY 2020 Treasurer's Report by emailing Cheryl MacKelvie at cmackelvie@casaweb.org.

President's Report

This year has seen big changes and "firsts" for CASA. Within months of selecting Adam Link to follow Bobbi Larson as our Executive Director, our entire staff was challenged to respond to the COVID-19 pandemic and also keep on top of all their ongoing responsibilities – while working from home! I am extremely pleased with how seamlessly and effectively everyone has been able to communicate and collaborate with each other and CASA's key stakeholders and members. We are indeed fortunate to have such a talented and flexible staff during these difficult times. Bobbi Larson deserves great thanks for her years building the organization and planning a smooth transition.

The pandemic has created new challenges for our industry, and at every turn CASA has quickly responded with timely information, including the development of a dedicated webpage with links to reliable resources on a variety of COVID-19 issues. I look forward to staff continuing this level of attention and responsiveness during these difficult times.

Another "first" will be our virtual conference in August. CASA staff has shown imagination and creativity in designing an interesting and informative program. Every effort is being made to encourage active communications and exchanges between attendees as face-to-face at past conferences. I look forward to the experience and believe it will be rewarding.

CASA also continued its major nonflushable wipes campaign, involving both legislation and related communications and awareness efforts. We also continue to address a variety of important issues at state regulatory agencies, including new policies at the State Water Board, Ocean Protection Council, and CalRecycle among others. We continue to make significant progress on our federal priorities, including enhanced federal funding for clean water projects and extension of NPDES permit terms.

It has been my pleasure to serve as your President during these unique times, and I have confidence that the organization will continue its commitment to providing valuable resources and essential advocacy on behalf of the clean water community. I look forward to "seeing" you all at CASA's first ever virtual conference event in August, and hopefully rejoining you all again in person in 2021.

Nominees for the CASA Board of Directors FY 2020-2021

Roger Bailey, Central Contra Costa Sanitary District



Roger became the General Manager at the Central Contra Costa Sanitary District on August 19, 2013. CentralSan is a progressive sanitary district providing wastewater collection and treatment services to approximately 471,000 people in the central Contra Costa area.

Before his employment at CentralSan, Roger served as the head of the City of San Diego Public Utilities Department. Prior to joining the City of San Diego, he served as Deputy City Manager and Utilities Director for the City of Glendale, Arizona; Utilities Director for the City of Royal Palm Beach, Florida; Assistant Utilities Director for the City of Valdosta, Georgia; and

Senior Engineer with the City of Tallahassee Water Utilities Department. Under his leadership, San Diego and Glendale's Utilities Department has won platinum awards for Utility Excellence from the Association of Metropolitan Water Agencies. Since coming to CentralSan, the facility has won the NACWA Platinum Award for three consecutive years.

Roger is a registered professional engineer in Arizona and Florida. His education includes M.S. and B.S. degrees in Civil Engineering from Florida A&M University. He also holds a B.S. degree in Physics and Mathematics from the University of Winnipeg, Canada.

David T. Cárdenas, Selma-Kingsburg-Fowler County Sanitation District



David T. Cardenas is the Mayor of the City of Fowler, California, serving in the Mayor's role for the past 13 years, and as a member of the Fowler City Council for the past 21 years. For the past 9 years he has served as Vice-Chairman of the Fresno County Council of Governments Policy Board, is a boardmember for the FCTA, the Consolidated Mosquito Abatement District, Fresno County Rural Transit Agency and is the Chairman of the S. K. F. Sanitation District Board. Throughout the years, Mr. Cardenas has served on several committees and boards for various public agencies and organizations, including the South San Joaquin Valley Division of the League of California Cities, and the Five Cities Economic Development Authority. For decades, he has volunteered in civic activities for the betterment of his community, including the Fowler Lions Club and Fowler Knights of Columbus, of which he is a founding member.

Jasmin Hall, Inland Empire Utilities Agency



Jasmin Hall serves as Vice-President of the Inland Empire Utilities Agency Board of Directors where she represents Division 4, the City of Fontana and portions of the Cities of Rialto and Bloomington. Ms. Hall was appointed to the Board of Directors in October 2013, elected in November 2014, and re-elected in November 2018. Ms. Hall is also the Agency's representative to California Association of Sanitation Agencies (CASA), was appointed to the CASA Board of Directors in February 2017, and currently serves as Secretary/Treasurer. Ms. Hall also serves as President on the Chino Basin Regional Financing Authority.

Ms. Hall has extensive experience in community leadership as she has served as the Fontana Planning Commission Secretary and as Chairwoman for the Fontana Parks and Recreation Commission. Ms. Hall initiated the process the earned Inland Empire Utilities Agency the Special District Leadership Foundation's District Transparency Certificate of Excellence. Ms. Hall received a Recognition in Special District Governance certificate, which is designed to honor special district Board members and trustees that demonstrate their commitment to continuing education and special district governance. The recognition covers the essentials of good governance, as well as service-specific education.

Ms. Hall holds an M.B.A. degree with a specialization in Human Resource Management from National University, San Diego, a B.S. degree in Business Management from University of Phoenix, San Diego, and a Project Management Certification from University of Irvine.

Craig Murray, Carpinteria Sanitary District



Craig is General Manager of the Carpinteria Sanitary District, where he has been since 2004. He is a registered Civil Engineer in California and active in numerous professional organizations. Prior to his appointment as the District General Manager he worked as a consulting engineer serving municipal water and wastewater clients. Craig was a member of the CASA Utility Leadership Committee until 2017, is part of SCAP and CSRMA leadership, and is very active in CASA and a regular conference attendee.

Craig holds a bachelor's degree from UC Santa Barbara and a master's degree in Civil and Environmental Engineering from Cal Poly San Luis Obispo.



CALIFORNIA ASSOCIATION of SANITATION AGENCIES

1225 8th Street, Suite 595 • Sacramento, CA 95814 • TEL: (916) 446-0388 • www.casaweb.org

DATE: June 29, 2020

TO: Member Agencies

FROM: Adam Link, Executive Director

SUBJECT: Designation of Agency Representative and Consent to Electronic

Transmission

Dear Members:

We are requesting your assistance with a couple of administrative matters. CASA's bylaws require that each member agency designate an official voting representative and two alternates who are authorized to exercise the agency's voting rights. We are updating our records in advance of our annual election and ask that you complete a designation form.

Secondly, as a nonprofit mutual benefit corporation, CASA must obtain our members' consent to transmit official communications electronically rather than regular mail. By signing and returning the enclosed authorization, you agree that CASA may send these communications such as ballots and other official business matters to you via email.

We request that you return both original documents by Friday, July 31, 2020 to cmackelvie@casaweb.org.

If you have any questions, please feel free to contact me at (916) 446-0388 or alink@casaweb.org. Thank you for your assistance.

PROPOSED RESOLUTION NO. 20-210

California Association of Sanitation Agencies

CASA Annual Membership Dues



Annual membership dues shall be determined as follows:

1. Active Member. Dues are based on the member agency's annual operations and maintenance budget. The dues schedule for calendar year 2021 shall be:

Agency Operations & Maintenance Budget 2021 Dues

| | Un to \$500,000 | 0000 |
|-----|-------------------------------------|----------|
| 1. | Up to \$500,000 | \$900 |
| 2. | Between \$500,001 - \$1,000,000 | \$1,700 |
| 3. | Between \$1,000,001 - \$1,500,000 | \$2,500 |
| 4. | Between \$1,500,001 - \$2,000,000 | \$3,250 |
| 5. | Between \$2,000,001 - 2,500,000 | \$4,000 |
| 6. | Between \$2,500,001 - 3,000,000 | \$5,000 |
| 7. | Between \$3,000,001 - 3,500,000 | \$6,000 |
| 8. | Between \$3,500,001 - \$4,000,000 | \$7,000 |
| 9. | Between \$4,000,001 - 4,500,000 | \$8,000 |
| 10. | between \$4,500,001 - \$5,000,000 | \$9,000 |
| 11. | Between \$5,000,001 - \$10,000,000 | \$13,600 |
| 12. | Between \$10,000,001 - \$20,000,000 | \$17,100 |
| 13. | \$20,000,001 - \$100,000,000 | \$20,500 |
| 14. | Over \$100,000,000 | \$28,100 |

2. Associate Member. Dues for associate members shall be:

| Assoc | iate Number of Employees | 2021 Dues |
|-------|----------------------------------|-----------|
| 1. | Employer with 1-5 employees | \$460 |
| 2. | Employer with 6-15 employees | \$930 |
| 3. | Employer with 16-29 employees | \$ 1,388 |
| 4. | Employer with 30-74 employees | \$ 1,850 |
| 5. | Employer with 75-120 employees | \$ 2,323 |
| 6. | Employer with over 121 employees | \$ 2,785 |

3. Honorary Member. There shall be no dues for honorary members.

Adopted by the California Association of Sanitation Agencies by electronic ballot and announced at the annual conference held virtually on August 13, 2020.

ATTEST:

Jasmin Hall Secretary - Treasurer



CALIFORNIA ASSOCIATION of SANITATION AGENCIES

1225 8th Street, Suite 595 Sacramento, CA 95814 TEL: (916) 446-0388 www.casaweb.org

OFFICIAL BALLOT

The voting members of the California Association of Sanitation Agencies (CASA) are requested to cast their votes on the following important actions:

Board of Directors FY 20-2021

The Nominating Committee and the Board of Directors recommend election of the following slate of Directors to the four available Board seats:

Roger Bailey, Central Contra Costa San. District (Manager – North)

Jasmin Hall, Inland Empire Utilities Agency (Director – South) David Cardenas, S-K-F County Sanitation District (Director – North) Craig Murray, Carpinteria Sanitary District (Manager – South) Please check one: Approve the slate of Directors Do not approve the slate of Directors **Dues Resolution Calendar Year 2021** (See below Proposed Resolution No. 20-210) Please check one: Approve the Dues Resolution Do not approve the Dues Resolution Please mark this Official Ballot for approval or disapproval and then insert the voting agency name and your name and sign your name and date below where indicated. In order to be counted, this original completed, signed and dated Official Ballot must be returned to CASA by 5:00 p.m. on Friday, July 31, 2020. Materially incomplete or illegible ballots will not be counted. Date: Insert name of CASA Member Agency E-Signature of CASA Member Agency representative

Electronic Submission is preferred. Please send ballot to Cheryl MacKelvie at cmackelvie@casaweb.org.

Insert name of representative

ACTION ITEM

3B



Date: July 15, 2020

200

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

Committee: Finance & Administration

07/08/20

Executive Contact: Christina Valencia, Executive Manager of Finance & Administration/AGM

Subject: Fiscal Year 2020/21 Proposed Budget Amendment and Rate Resolutions

Executive Summary:

On June 19, 2019 the Board of Directors approved the Agency's Biennial Budget for fiscal years (FYs) 2019/20 and 2020/21. As part of the biennial budget cycle, a review of the second budget year is done at the end of the first year to determine whether any adjustments are needed to meet changes in certain assumptions or conditions. The proposed budget amendments relate to all Agency programs. Amendments related to the Regional Wastewater, Recycled Water, and Recharge Water programs and Ten-Year Forecast (TYF), formerly Ten-Year Capital Improvement Plan for the FYs 2021 – 2030, along with the corresponding regional rates and fees were reviewed by the Regional Committees and recommended for approval.

The proposed amendment represents a decrease in Uses of Funds of \$8.1 million and a decrease in Sources of Funds of \$16.6 million, with a net impact on Agency reserves of \$8.9 million for FY 2020/21. The proposed Rate Resolution Nos. 2020-7-1 through 2020-7-12 include various charges and fees for the Extra-Territorial Wastewater Monthly fee, Laboratory, Equipment Lease, and Non-Reclaimable pass-through charges. The proposed amendment includes a 12-month deferral of all rate increases for FY 2020/21, similar to the adopted deferral for the monthly EDU sewer rate.

Staff's Recommendation:

- 1. Approve the amendments to the FY 2020/21 Adopted Budget
- 2. Approve the inter-fund loan repayment of \$3 million from the Recycled Water fund to the Non-Reclaimable Wastewater in FY 2020/21; and;
- 3. Adopt Rate Resolutions No. 2020-7-1 through 2020-7-12

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

Fiscal Impact (explain if not budgeted):

The proposed net decrease of \$8.9 million to the FY 2020/21 Adopted Budget will decrease total Agency fund reserves.

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

Prior Board Action:

On June 19, 2019, the Board of Directors approved the Agency's biennial budget for FYs 2019/20 and 2020/21.

On May 6, 2020, the Board of Directors approved a 12 month deferral for the monthly EDU sewer rate, and approved monthly EDU sewer rates for FY 2021/22.

Environmental Determination:

Not Applicable

Business Goal:

The proposed amendment to the FY 2020/21 Adopted Budget for the Agency's programs is consistent with the IEUA Business Goals of Fiscal Responsibility, Water Reliability, Wastewater Management, Environmental Stewardship, and Business Practices to optimize investment earnings.

Attachments:

Attachment 1 - Background

Attachment 2 - Sources and Uses of Funds by Program Fund Report

Attachment 3 - PowerPoint

Attachment 4 - Resolution Nos. 2020-7-1 through 2020-7-4, Non-Reclaimable Wastewater Service Rates

Attachment 5 - Resolution No. 2020-7-5, Laboratory Rates

Attachment 6 - Resolution No. 2020-7-6, Extra-Territorial Sewer Charges

Attachment 7 - Resolution No. 2020-7-7, Imported Water Rates

Attachment 8 - Resolution No. 2020-7-8, Equipment Rental Fees

Attachment 9 - Resolution No. 2020-7-9, Recycled Water Sales Rates

Attachment 10 - Resolution No. 2020-7-10, Reimbursement Payment per EDU

Attachment 11 - Resolution No. 2020-7-11, Establishing the Water Connection Fee

Attachment 12 - Resolution No. 2020-7-12, Establishing Meter Equivalent Unit Rates

Board-Rec No.: 20157



Background

Subject: FY 2020/21 Proposed Budget Amendment & Rate Resolutions

On June 19, 2019. the Board of Directors approved the Agency's Biennial Budget for fiscal years (FYs) 2019/20 and 2020/21, and Ten-Year Forecast (formerly the Ten-Year Capital Improvement Plan) for FYs 2020-2029. As part of the biennial budget cycle, a review of the second budget year is done at the end of the first year to determine whether any adjustments are needed to meet changes in certain assumptions or conditions. The proposed budget amendments relate to all Agency programs. Amendments to the Regional Wastewater and Recycled Water programs and Ten-Year Forecast (TYF) for FYs 2021–2030, along with the corresponding rates and fees were reviewed and recommended for approval by the Regional Technical Committee and the Regional Policy Committee on June 25 and July 2, 2020, respectively.

The major changes in assumptions driving the proposed amendment for FY 2020/21 include:

TOTAL SOURCES OF FUNDS:

- 12-month hold on proposed adjustments to all Agency rates and fees.
- Reduction of recycled water deliveries based on current trend.
- Alignment of loans and grant proceeds consistent with the proposed TYF.

TOTAL USES OF FUNDS

- Primary basis for the projects included in the proposed TYF include:
 - o Expansion of facilities to support projected growth
 - o Replacement, repair and improvement of existing assets
- Adjustment of operating expenses to offset the projected revenue shortfall related to the proposed 12-month hold on all Agency rates and fees.

Summarized below are the proposed amendments recommended for FY 2020/21 for all Agency programs.

Table 1: FY 2020/21 Proposed Budget Amendment for All Agency Programs (\$Millions)

| FY 2020/21 | Adopted | Proposed | Amendment Amount |
|--|-----------|-----------|---------------------|
| Total Sources of Funds | \$368.9 | \$ 352.3 | (\$16.6) |
| Total Uses of Funds | (\$369.3) | (\$361.2) | (\$8.1) |
| Increase (Decrease) in Net Position | (\$0.4) | (\$8.9) | \$8.5 |

Total Sources of Funds decrease of \$16.6 million is mainly due to the delay in state loans/grants and the deferral of the rate increase to the monthly EDU sewer rate for FY2020/21 approved by the Board on May 6, 2020. Also included is a deferral of the proposed increases for FY 2020/21 to the wastewater connection fee, One Water connection fee, recycled water rates, Non-Reclaimable pass-through rates and the meter equivalent unit (MEU) rate.

Total Uses of Funds decrease of \$8.1 million is mainly due to a reduction in capital project spending consistent with the proposed TYF for FYs 2021-2030, partly offset by an increase in non-capital projects. Also included is a reduction to budgeted projects and costs that could be delayed to help offset the projected revenue shortfall from the proposed deferral of rate increases for FY 2020/21.

PROPOSED RATES AND FEES

At the request of member agencies, and as unanimously recommended by the Regional Committees, the Board adopted the monthly Wastewater Equivalent Dwelling Unit (EDU) Rate of \$20.60 and \$21.22 for Fiscal Years 2020/21 and 2021/22, respectively on November 20, 2019.

Since then, the outbreak of the COVID-19 pandemic and the drastic measures undertaken at the federal, state, and local levels to contain the spread of the virus has significantly altered our lives, our communities, and our economy. In an effort to mitigate the fiscal impact to our ratepayers, and address concerns raised by some of our member agencies, on May 6, 2020 the Board approved the deferral of the increase to the monthly EDU sewer rate for FY 2020/21. Staff also provided an overview of the estimated fiscal impact of a 12-month deferral of the proposed adjustments to all other Agency rates and fees. Shown on Table 2 is staff's recommendation to maintain all the rates and fees unchanged for FY 2020/21 and the basis for the proposed FY 2020/21 Budget Amendment.

Table 2: Adopted and Proposed Fees and Rates

| Fund | Wastewater Operation | Wastewater Capital | F | Recycled Wa | ater | Water Resources | | | |
|-----------------|---------------------------|---------------------------------------|---|---------------------------------------|--------------------------------------|---------------------------------------|-----------------|--|--|
| As of July 1 | Monthly Sewer (EDU) | Wastewater Connection Fee (EDU) | Recycled Water Direct Use (AF) | Recycled Water Recharge (AF) | One Water Connection Fee (MEU) | Meter Equivalent Units (MEU) | RTS Recovery | | |
| FY 2019/20 | \$20.00 | \$6,955 | \$490 | \$550 | \$1,684 | \$1.04 | 60% | | |
| | ADOPTED | | PROPOSED | | | | | | |
| FY 2020/21* | \$20.00 | \$6,955 | \$490 | \$550 | \$1,684 | \$1.04 | 75% | | |
| FY 2021/22 | \$21.22 | \$7,379 | \$520 | \$580 | \$1,787 | \$1.08 | 90% | | |
| FY 2022/23 | T. 1 | | | termined | \$1,841 | \$1.10 | 100% | | |
| FY 2023/24 | the sewer us | | evaluation | ditional n to ensure | \$1,896 | \$1.12 | 100% | | |
| FY 2024/25 | Tesi | uns | _ | n program nability | \$1,953 | \$1.14 | 100% | | |

*In November 2019, the monthly EDU rate of \$20.60 and \$21.22 were approved by the Board for FYs 2020/21 and 2021/22, respectively. On May 6, 2020, the Board approved to defer all the user rate increase for FY 2020/21 and maintain the rate unchanged.

Not shown are the pass-through rates for the Non-Reclaimable Wastewater (NRW) program. Staff's recommendation is to maintain the rates unchanged for FY 2020/21 for both the north and south systems. Pass-through rates for the NRW fund were established in 2005 to more equitably recover the cost from north and south customers, as well as provide a more sustainable financing structure for the fund. The Santa Ana Watershed Project Authority (SAWPA) is proposing to defer the proposed rate increases for FY 2020/21 to January 2, 2021. Pass-through rates for the north system are still pending, subject to Los Angeles County Sanitation Districts (LACSD) final approval and adoption in June 2020.

SOURCES OF FUNDS

The revised assumptions result in a decrease of \$16.6 million to total Sources of Funds. The reduction is primarily due to a decrease in federal and state loan proceeds and the estimated impact of the 12-month deferral of rate increases for FY 2020/21. The distribution by major category of Sources of Funds is shown below in Table 3.

Table 3: FY 2020/21 Proposed Amendment to Total Sources of Funds (\$Millions)

| Sources of Funds | Adopted | Proposed | Amendment Amount |
|---------------------------------|---------|----------|---------------------|
| User Charges | \$90.5 | \$88.1 | (\$2.4) |
| Federal and State Loans | 89.2 | 79.7 | (9.5) |
| Property Tax | 53.9 | 53.9 | 0.0 |
| MWD Water Sales | 46.2 | 46.1 | (0.1) |
| Connection Fees | 36.7 | 35.7 | (1.0) |
| Recycled Water Sales | 18.8 | 16.2 | (2.6) |
| Grants | 16.4 | 14.4 | (2.0) |
| JPA Reimbursements | 6.7 | 7.1 | 0.4 |
| Interfund Loan Repayment | 3.0 | 3.0 | 0.0 |
| *Other Sources | 7.5 | 8.1 | 0.6 |
| Total | \$368.9 | \$352.3 | (\$16.6) |

^{*}Other Sources includes contract cost reimbursements, interest income, and miscellaneous revenue.

User Charges: The \$2.4 million reduction is the estimated revenue shortfall resulting from the adopted and proposed deferral of rate increases for FY 2020/21 for the monthly EDU sewer rate, Non-Reclaimable Wastewater pass-through rates, and meter equivalent unit (MEU) rate.

Federal and State Loans and Grants: The \$11.5 million net reduction to loan and grant proceeds is the result of delays at the State Water Resources Control Board in securing State Revolving Fund (SRF) loans to support the RP-5 Expansion and Solids Handling Facility projects planned for FY 2020/21 in the Regional Wastewater program. Due to the uncertainty in the availability of SRF loan funding, a key assumption in the adopted and amended FY 2020/21 budget is pay-go funding of planned capital projects.

Recycled Water: The \$2.6 million reduction in recycled water sales includes a decrease in recycled water deliveries from the adopted 36,000 acre-feet (AF) to 31,900 AF for FY 2020/21, consistent with the current trend, and the proposed 12-month deferral of rate increases for FY 2020/21.

Connection Fees: The reduction of \$1.0 million is related the proposed 12-month deferral of the increases proposed for FY2020/21, subject to Board approval. There is no change in the number of new wastewater connections (4,000 EDUs) and new water connections (4,700-meter equivalent units) projected in the adopted budget. Member agency forecasts of new wastewater connections for FY 2020/21 is 9,321 units.

TOTAL USES OF FUNDS

The proposed decrease of \$8.1 million is primarily due to an adjustment in capital project spending consistent with the proposed TYF for FYs 2020/21 – 2029/30 offset by an increase in non-capital projects related to the Regional System Asset Management program. Additionally, staff identified certain projects and costs that could be deferred to help offset the projected revenue shortfall associated with the rate deferral for FY 2020/21. The net adjustments with the proposed budget and amendments are shown in Table 4 below.

Table 4: FY 2020/21 Proposed Amendments to Total Uses of Funds (\$Millions)

| Uses of Funds | Adopted | Proposed | Amendment Amount |
|-----------------------------|---------|----------|---------------------|
| Capital Projects | \$179.3 | \$168.0 | (\$11.3) |
| Operations & Administration | 115.8 | 119.2 | 3.4 |
| MWD Water Purchases | 46.2 | 46.1 | (0.1) |
| Debt Service | 28.0 | 27.9 | (0.1) |
| Total | \$369.3 | \$361.2 | (\$8.1) |

Capital Projects: The \$11.3 million decrease is primarily due to changes in project scope and project execution timelines. Amendments to capital project costs are consistent with the proposed TYF for FYs 2020/21 – 2029/30 and include additional adjustments to projects in amount of \$2.1 million to offset revenue shortfall due to rate deferrals.

Operations & Administration: The proposed Operations & Administration amended budget reflects an increase of \$3.4 million to non-capital projects including the Regional System Asset Management program and the TCE Plume Cleanup included in the TYF, partially offset by reductions of \$2.7 million for certain expense categories, as summarized on Table 5, to help offset the projected revenue shortfall from the proposed rate deferrals.

Table 5: FY 2020/21 Proposed Budget Adjustments to Offset Rate Deferral (\$Millions)

| Categories | FY 2020/21 Budget Deferral |
|---|-------------------------------|
| Non-Capital Projects | (\$2.2) |
| Professional Fees & Services | (0.5) |
| Total O&M Deferral | (2.7) |
| Capital Project Deferral | (1.4) |
| Total FY 2020/21 Deferral | (\$4.1) |

FY 2020/21 Rate Resolutions

The Agency establishes the following service rates for FY 2020/21 to support various types of services for different programs and for other local governmental agencies who may require the Agency's staff support or use of Agency's equipment. The highlights of the FY 2020/21 proposed resolutions are provided in the section below, and the respective resolution documents are presented in Attachment 4 through Attachment 12.

Table 5: Proposed Rate Resolutions

| Resolution No. | Description |
|----------------|---|
| 2020-7-1 | Service Rates and Excessive Strength Charges for Regional or Industrial |
| | Wastewater Discharge |
| 2020-7-2 | Service Rates on Capacity, Volumetric, Strength, Capital Improvement, and |
| | Application Fees for the Etiwanda Wastewater Line (EWL) |
| 2020-7-3 | Service Rates on Capacity, Volumetric, Strength, and Application Fees for the |
| | Non-Reclaimable Wastewater System (NRWS) |
| 2020-7-4 | Service Rates on Capacity, Volumetric, Strength, Capital Improvement, and |
| | Application Fees for the Inland Empire Brine Line (IEBL) |
| 2020-7-5 | Laboratory Rates |
| 2020-7-6 | Extra-Territorial Sewer Charges |
| 2020-7-7 | Imported Water Rates |
| 2020-7-8 | Equipment Rental Fees |
| 2020-7-9 | Recycled Water Sales Rates |
| 2020-7-10 | Reimbursement Payment per EDU |
| 2020-7-11 | Establishing the Water Connection Fee |
| 2020-7-12 | Establishing Meter Equivalent Unit Rates |

Resolution No. 2020-7-1, Service Rates for Wastewater Discharges to the Regional Wastewater System for Septage, Commercial or Industrial Wastewater, and Excessive Strength Charges

This resolution establishes service rates for processing and issuing permits to domestic, commercial, or industrial wastewater dischargers and wastewater haulers permitted by IEUA, service rates for processing and treatment of sanitary, commercial or industrial wastewater deliveries to the Inland Empire Utilities Agency's (Agency) Regional Wastewater System; and service rates for application fees for processing and issuing of wastewater discharge permits to industrial wastewater generators who discharge directly through pipeline connections to the Regional Sewer System.

Resolution No. 2020-7-2, Capacity Charges, Volumetric Charges, Strength Charges, Capital Improvement Project (CIP) Charges, IEUA Administrative Charges, and Application and Wastewater Discharge Permit Application Fees for the Etiwanda Wastewater Line (EWL)

This resolution establishes a rate structure for the collection of costs associated for the sewerage service for the EWL under the Etiwanda Wastewater Line Disposal Agreement entered between Los Angeles County Sanitation Districts (LACSD) and Inland Empire Utilities Agency (Agency).

Resolution No. 2020-7-3, Capacity Charges, Volumetric Charges, Strength Charges, Agency Program Charges and Application Fees for the Non-Reclaimable Wastewater System (NRWS)

This resolution establishes a rate structure for the collection of costs associated for the sewerage service for the NRW north system under the NRWS Wastewater Disposal Agreement No. 4830 entered between Los Angeles County Sanitation Districts (LACSD) and Inland Empire Utilities Agency (Agency).

Resolution No. 2020-7-4, Capacity Charges, Volumetric Charges, Strength Charges, Capital Improvement Project (CIP) Charges, IEUA Administrative Charges, and Application and Wastewater Discharge Permit Application Fees for the Inland Empire Brine Line

This resolution establishes initial and monthly capacity charges, volumetric flow charges, CIP charges, trucked wastewater delivery charges and excessive strength charges, application fees for processing applications for Capacity Right Agreements and Wastewater Discharge Permits for the use of the Inland Empire Utilities Agency's (Agency) Brine Line, NRW south system.

Resolution No. 2020-7-5, Laboratory Rates

This resolution establishes rates on a variety of laboratory analyses for local governmental agencies who enter into agreement with the Agency for laboratory analysis services. The rates support the laboratory staff time and supplies associated with laboratory analyses. The FY 2020/21 laboratory rates remain consistent with prior year rates.

Resolution No. 2020-7-6, Extra-Territorial Sewer Charges

This resolution establishes an extra-territorial (ET) monthly sewer service charge for system users located within our contracting agencies boundaries but outside the Inland Empire Utilities Agency service area. This monthly ET charge is in addition to the adopted Regional Sewer service rate. The FY 2020/21 ET monthly sewer service rate is determined based on the Agencywide assessed valuation for FY 2019/20 as reported by the San Bernardino County Auditors Property Tax Division and the estimated number of billable equivalent dwelling units (EDU) projected in the Agency's FY 2019/20 Regional Wastewater Operations and Maintenance fund budget. The FY 2020/21 monthly ET rate is set at \$17.46 per EDU, in addition to the adopted monthly EDU rate of \$20.00.

Resolution No. 2020-7-7, Imported Water Rates

This resolution establishes rates for delivery of imported water supplies; the rates are based on the approved and adopted rates by the Metropolitan Water District of Southern California (MWD) Board on April 10, 2018. The rates of sales of imported water are a direct pass-through charged by Metropolitan for each class of water (Tier 1 and Tier 2) to the IEUA member agencies.

Resolution No. 2020-7-8, Equipment Rental Fees

This resolution provides rental equipment rates for local governmental agencies that may occasionally require the use of Agency equipment. The rates cover the Agency's labor cost, materials and supplies, and fuel costs. The cost for rental equipment in FY 2020/21 increases slightly to allow for increased fuel costs.

Resolution No. 2020-7-9, Recycled Water Sales Rates

This resolution establishes rates for the direct and recharge sale of recycled water that is available to contracting agencies from the tertiary treatment plants. The rates cover the costs associated with the operation and maintenance of IEUA's Regional Water System.

Resolution No. 2020-7-10, Reimbursement Payment per EDU

This resolution establishes fees to connect to the regional wastewater system. These connection fees, like "development impact fees" levied by cities for new development, are collected by each of the Agency's contracting member agencies, in accordance with the Regional Contract. Each member agency holds these funds in trust in a Capital Capacity Reimbursement Account (CCRA) until requested, or "called," by the Agency. Connection fees support finance capital acquisition, construction, expansion, equipment purchase, and process improvement costs of the Agency's regional wastewater system.

Resolution No. 2020-7-11, Establishing the Water Connection Fee

The resolution establishes a fee from each new or upsized connection to IEUA's Regional Water System. The one-time connection fee will be imposed on any new retail water connection to any water system within the Agency's service area. The fee is imposed to recover growth-related costs incurred by the Agency and defined in Ordinance 103.

Resolution No. 2020-7-12 Establishing Meter Equivalent Unit Rates

The resolution established an annual Readiness to serve (RTS) pass-through charge, based on a Ten-Year Rolling Average (TYRA) MWD methodology and an annual Meter Equivalent Unit (MEU) charge rate to yield sufficient revenues to recover the regional water resources program costs.

Conclusion

The proposed amendment represents a decrease in total Uses of Funds of \$8.1 million, along with a decrease of \$16.6 million in total Sources of Funds, projecting a net decrease to Agency fund reserves of \$8.9 million for FY 2020/21. Fund reserves support the Agency's operations, debt obligations, ten-year forecast, sinking funds needed for long term capital expenditures and unplanned expenditures. A key driver for the projected decrease is the proposed deferral of rate increases for FY 2020/21 in response to the ongoing coronavirus pandemic. While the fiscal impact of the pandemic is still uncertain, deferring adopted and proposed rate increases will lessen the burden to our ratepayers.

The proposed amendment to the FY 2020/21 Adopted Budget for the Agency's programs is consistent with the IEUA Business Goals of Fiscal Responsibility, Water Reliability, Wastewater Management, Environmental Stewardship, and Business Practices.



Attachment 2 - Sources and Uses of Funds by Program Fund Report

INLAND EMPIRE UTILITIES AGENCY FISCAL YEAR 2020/2021 MID-YEAR BUDGET ALL FUNDS - SOURCES AND USES OF FUNDS (In Thousands)

| | 2018/2019 | 2019/2020 | 2019/2020 | 2020/2021 | 2020/2021 |
|--|-----------|-----------|-----------|-----------|-----------|
| • | | ADOPTED | AMENDED | ADOPTED | AMENDED |
| | ACTUAL | BUDGET | BUDGET | BUDGET | BUDGET |
| REVENUES | | | | | |
| User Charges | \$84,814 | \$87,285 | \$87,285 | \$90,491 | \$88,135 |
| Property Tax - O&M | 1,972 | 1,972 | 1,972 | 1,972 | 1,972 |
| Cost Reimbursement from JPA | 6,019 | 6,684 | 6,684 | 6,685 | 7,058 |
| Contract Cost reimbursement | 1,826 | 818 | 818 | 800 | 850 |
| Interest Revenue | 4,354 | 4,693 | 4,625 | 4,157 | 3,883 |
| Recycled Water Sales | 13,902 | 18,120 | 18,120 | 18,752 | 16,155 |
| Water Sales | 45,519 | 44,724 | 44,724 | 46,236 | 46,092 |
| TOTAL REVENUES | \$158,407 | \$164,296 | \$164,227 | \$169,093 | \$164,144 |
| OTHER FINANCING SOURCES | | | | | |
| Property Tax - Debt, Capital, Reserves | \$51,068 | \$50,392 | \$50,392 | \$51,963 | \$51,963 |
| Connection Fees | 28,352 | 35,735 | 35,735 | 36,687 | 35,735 |
| Debt Proceeds | 0 | 0 | 0 | 0 | 0 |
| State Loans State Loans | 4,892 | 19,209 | 19,209 | 89,234 | 79,647 |
| Grants | 2,125 | 13,137 | 19,446 | 16,416 | 14,432 |
| Sale of Assets | 0 | 0 | 0 | 0 | 0 |
| Capital Contract Reimbursement | 892 | 2,640 | 2,640 | 1,364 | 2,252 |
| Other Revenues | 1,136 | 1,162 | 1,162 | 1,112 | 1,112 |
| Sale of Capacity | 0 | 0 | 2,365 | 0 | 0 |
| Loan Transfer from Internal Fund | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 |
| TOTAL OTHER FINANCING SOURCES | \$91,465 | \$125,275 | \$133,949 | \$199,776 | \$188,141 |
| | | | | | |
| TOTAL REVENUES AND OTHER FINANCING | 4040070 | **** | 4000 171 | 4010010 | 4050.005 |
| SOURCES | \$249,872 | \$289,570 | \$298,176 | \$368,869 | \$352,285 |
| EXPENSES | | | | | |
| Employment Expense | \$44,324 | \$51,289 | \$51,289 | \$52,309 | \$52,190 |
| Contract Work/Special Projects | 10,100 | 15,276 | 30,056 | 12,043 | 15,872 |
| Utilities | 8,274 | 9,788 | 9,674 | 10,144 | 10,159 |
| Operating Fees | 12,354 | 12,265 | 12,274 | 12,726 | 12,727 |
| Chemicals | 4,664 | 4,997 | 5,383 | 5,147 | 5,147 |
| Professional Fees and Services | 8,120 | 12,023 | 14,638 | 11,347 | 10,925 |
| Office and Administrative Expense | 1,610 | 2,680 | 2,820 | 2,908 | 2,908 |
| Biosolids Recycling | 4,335 | 4,419 | 4,424 | 4,551 | 4,551 |
| Materials & Supplies | 3,039 | 2,983 | 3,262 | 2,995 | 3,023 |
| Operation Contribution to IERCA | 0 | 0 | 0 | 0 | 0 |
| MWD Water Purchases | 45,519 | 44,724 | 44,724 | 46,236 | 46,092 |
| Other Expenses | 1,177 | 1,571 | 1,624 | 1,573 | 1,722 |
| TOTAL EXPENSES | \$143,516 | \$162,015 | \$180,167 | \$161,979 | \$165,317 |
| (Continued) | | | | | |

INLAND EMPIRE UTILITIES AGENCY FISCAL YEAR 2020/2021 MID-YEAR BUDGET ALL FUNDS - SOURCES AND USES OF FUNDS (In Thousands)

| _ | 2018/2019 | 2019/2020 | 2019/2020 | 2020/2021 | 2020/2021 |
|--|-----------|-------------------|-------------------|-------------------|-------------------|
| | ACTUAL | ADOPTED BUDGET | AMENDED BUDGET | ADOPTED BUDGET | AMENDED BUDGET |
| (Continued from previous page) | | | | | |
| CAPITAL PROGRAM | | | | | |
| CSDLAC 4Rs | \$705 | \$737 | \$737 | \$0 | \$0 |
| IERCA investment | 0 | 500 | 500 | 500 | 500 |
| RO Decommissioned Assets | 0 | 0 | 0 | 0 | 0 |
| Due from City of Ontario | 0 | 0 | 0 | 0 | 0 |
| Capital Construction & Expansion | 55,622 | 92,349 | 98,588 | 178,799 | 167,539 |
| WIP Adjust ment | 0 | 0 | 0 | 0 | 0 |
| Capital Project Related Labor Cost Alloc | 0 | 0 | 0 | 0 | 0 |
| Rehab & Replacement | 0 | 0 | 0 | 0 | 0 |
| TOTAL CAPITAL PROGRAM | \$56,327 | \$93,586 | \$99,826 | \$179,299 | \$168,039 |
| DEBT SERVICE | | | | | |
| Financial Expenses | \$323 | \$228 | \$228 | \$403 | \$362 |
| Interest | 6,951 | 7,071 | 7,071 | 6,876 | 6,699 |
| Principal | 15,911 | 16,537 | 16,537 | 17,720 | 17,780 |
| Short Term Inter-Fund Loan | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 |
| TOTAL DEBT SERVICE | \$26,185 | \$26,835 | \$26,835 | \$27,998 | \$27,841 |
| - | +==+ | 1-0,000 | 1-0,000 | 7=1,110 | 4=1/011 |
| FUND BALANCE | | | | | |
| Net Increase (Decrease) | \$23,845 | \$7,134 | (\$8,652) | (\$407) | (\$8,912) |
| Fund Bal Adj to FY 11/12 CAFR | 0 | 0 | 0 | 0 | 0 |
| Beginning Fund Balance July 01 | \$234,340 | \$244,629 | \$250,286 | \$251,763 | \$241,634 |
| ENDING BALANCE AT JUNE 30 | \$258,185 | \$251,763 | \$241,634 | \$251,356 | \$232,722 |
| RESERVE BALANCE SUMMARY | | | | | |
| Operating Contingencies | \$32,986 | \$39,362 | \$39,354 | \$38,516 | \$38,958 |
| Capital Expansion & Replacement | 32,244 | 45,635 | 30,437 | 95,496 | 37,906 |
| CCRA Capital Construction | 66,474 | 72,262 | 75,294 | 30,916 | 73,114 |
| Water Connection | 14,615 | 12,516 | 15,518 | 14,478 | 16,548 |
| Rehabilitation/Replacement | 27,331 | 10,444 | 10,500 | 12,283 | 8,811 |
| CSDLAC Prepayment | 705 | 737 | 737 | 0 | 0 |
| Water Resource Capital | 8,831 | 332 | 0 | 2,006 | 0 |
| Debt Service & Redemption | 26,866 | 28,745 | 27,788 | 29,213 | 28,963 |
| Self Insurance Program | 4,578 | 3,000 | 3,000 | 3,000 | 3,000 |
| Employee Retirement Benefit | 6,000 | 6,000 | 4,343 | 6,000 | 4,822 |
| Sinking Fund | 37,557 | 32,730 | 34,663 | 19,448 | 20,602 |
| ENDING BALANCE AT JUNE 30 | \$258,185 | \$251,763 | \$241,634 | \$251,356 | \$232,722 |
| *Numbers may not total due to rounding | | | | | |

^{*}Numbers may not total due to rounding

INLAND EMPIRE UTILITIES AGENCY FISCAL YEAR 2020/21 MID-YEAR BUDGET REGIONAL WASTEWATER CAPITAL IMPROVEMENT FUND - SOURCES AND USES OF FUNDS (In Thousands)

| | 2018/2019 | 2019/2020 | 2019/2020 | 2020/2021 | 2020/2021 |
|---|----------------------------|----------------------------|-----------------------------|----------------|-----------------------------|
| - | | ADOPTED | AMENDED | ADOPTED | AMENDED |
| | ACTUAL | BUDGET | BUDGET | BUDGET | BUDGET |
| REVENUES | # 020 | \$700 | #700 | #00 / | |
| Interest Revenue | \$838 | \$790 | \$790 | \$826 | \$826 |
| TOTAL REVENUES | \$838 | \$790 | \$790 | \$826 | \$826 |
| OTHER FINANCING SOURCES | | | | | |
| Property Tax - Debt and Capital | \$34,476 | \$34,037 | \$34,037 | \$35,058 | \$35,058 |
| Regional System Connection Fees | 22,435 | 27,820 | 27,820 | 28,655 | 27,820 |
| State Loans | - | 9,800 | 9,800 | 80,250 | 65,293 |
| Other Revenues | 23 | f71./50 | f71./50 | f142.0/2 | ¢120.172 |
| TOTAL OTHER FINANCING SOURCES | \$56,938 | \$71,658 | \$71,658 | \$143,963 | \$128,172 |
| EXPENSES | | | | | |
| Employment Expenses | \$3,899 | \$3,613 | \$3,613 | \$3,743 | \$3,743 |
| Contract Work/Special Projects | 134 | 125 | 246 | - | - |
| Operating Fees | 263 | 267 | 267 | 275 | 275 |
| Professional Fees and Services | 295 | 407 | 705 | 420 | 420 |
| Other Expenses | 969 | 1,548 | 1,548 | 1,535 | 1,535 |
| TOTAL EXPENSES | \$5,560 | \$5,960 | \$6,378 | \$5,973 | \$5,973 |
| - | | | | | |
| CAPITAL PROGRAM | | | | | |
| Work In Progress | \$24,845 | \$24,824 | \$24,824 | \$102,243 | \$98,645 |
| IERCA investment | - | 500 | 500 | 500 | 500 |
| TOTAL CAPITAL PROGRAM | \$24,845 | \$25,324 | \$25,324 | \$102,743 | \$99,145 |
| DEDT CEDIMOE | | | | | |
| DEBT SERVICE | ¢211 | ¢120 | ¢120 | ¢2E4 | ¢2E4 |
| Financial Expenses Interest | \$211 2,786 | \$139 3.017 | \$139 | \$256 | \$256 |
| Principal | 8,922 | 3,017 9,370 | 3,017 9,370 | 2,656 9,630 | 2,656 9,630 |
| TOTAL DEBT SERVICE | \$11,919 | \$12,526 | \$12,526 | \$12,543 | \$12,543 |
| TOTAL DEBT SERVICE | Ψ11,717 | \$12,520 | \$12,520 | \$12,343 | φ12,545 |
| TRANSFERS IN (OUT) | | | | | |
| Capital Contribution | \$4,426 | \$3,399 | \$3,399 | \$10,426 | (\$737) |
| Debt Service | (3,174) | (3,299) | (3,299) | (3,327) | (3,192) |
| Capital - Connection Fees Allocation | (5,008) | (8,984) | (8,984) | (8,656) | (12,501) |
| TOTAL INTERFUND TRANSFERS IN (OUT) | (\$3,755) | (\$8,883) | (\$8,883) | (\$1,556) | (\$16,430) |
| 511115 5 41 4 41 65 | | | | | |
| FUND BALANCE | ¢11 / O7 | ¢10.7FF | ¢10.227 | ¢21.074 | (#F 002) |
| Net Income (Loss) Beginning Fund Balance July 01 | \$11,697 | \$19,755 | \$19,336 | \$21,974 | (\$5,093) |
| ENDING FUND BALANCE AT JUNE 30* | \$4,996 \$96,693 | 88,587 \$109.343 | \$8,794 \$108,130 | 108,342 | 108,130 \$103,036 |
| ENDING FUND BALANCE AT JUNE 30 | \$90,093 | \$108,342 | \$100,130 | \$130,316 | \$103,030 |
| RESERVE BALANCE SUMMARY | | | | | |
| Capital Construction | \$14,645 | \$20,227 | \$17,485 | \$83,438 | \$14,349 |
| CCRA Capital Construction | 66,474 | 72,262 | 75,294 | 30,916 | 73,114 |
| Debt Service & Redemption | 15,574 | 15,853 | 15,351 | 15,962 | 15,574 |
| ENDING BALANCE AT JUNE 30 | \$96,693 | \$108,342 | \$108,130 | \$130,316 | \$103,036 |
| *Numbers may not tie due to rounding | | | | | |

INLAND EMPIRE UTILITIES AGENCY FISCAL YEAR 2020/21 MID-YEAR BUDGET REGIONAL WASTEWATER OPERATIONS & MAINTENANCE FUND - SOURCES AND USES OF FUNDS (In Thousands)

| | 2018/2019 | 2019/2020 | 2019/2020 | 2020/2021 | 2020/2021 |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| • | | ADOPTED | AMENDED | ADOPTED | AMENDED |
| | ACTUAL | BUDGET | BUDGET | BUDGET | MID YEAR |
| REVENUES | | | | | |
| User Charges | \$66,499 | \$68,158 | \$68,158 | \$70,366 | \$68,327 |
| Cost Reimbursement JPA | 4,024 | 4,065 | 4,065 | 4,227 | 4,227 |
| Contract Cost Reimbursement | 111 | 66 | 66 | 66 | 66 |
| Interest Revenue TOTAL REVENUES | 1,667 \$72,301 | 1,700 \$73,988 | 1,700 \$73,988 | 1,300 \$75,959 | 1,300 \$73,920 |
| TOTAL REVENUES | \$72,301 | \$73,900 | \$13,900 | \$75,959 | \$73,920 |
| OTHER FINANCING SOURCES | | | | | |
| Property Tax Revenues - Debt/Capital | \$9,549 | \$9,549 | \$9,549 | \$9,549 | \$9,549 |
| State Loans | 2,519 | 0 | 0 | 0 | 0 |
| Grants | 712 | 1,261 | 7,570 | 1,135 | 3,794 |
| Other Revenues | 385 | 909 | 909 | 909 | 909 |
| TOTAL OTHER FINANCING SOURCES | \$13,164 | \$11,718 | \$18,027 | \$11,593 | \$14,252 |
| • | | | | | · · · |
| EXPENSES | | | | | |
| Employment Expenses | \$28,726 | \$33,985 | \$33,985 | \$35,261 | \$35,261 |
| Contract Work/Special Projects | 4,744 | 5,800 | 13,409 | 6,425 | 10,434 |
| Utilities | 5,318 | 6,022 | 6,272 | 6,266 | 6,266 |
| Operating Fees | 1,613 | 1,953 | 1,953 | 2,015 | 2,015 |
| Chemicals | 4,572 | 4,867 | 5,235 | 5,013 | 5,013 |
| Professional Fees and Services | 2,971 | 4,723 | 5,171 | 4,226 | 4,171 |
| Biosolids Recycling | 4,305 | 4,384 | 4,389 | 4,515 | 4,515 |
| Materials & Supplies | 2,074 | 2,019 | 2,230 | 2,064 | 2,064 |
| Other Expenses | 2,728 | 4,277 | 4,277 | 4,231 | 3,962 |
| TOTAL EXPENSES | \$57,052 | \$68,034 | \$76,925 | \$70,020 | \$73,704 |
| CAPITAL PROGRAM | | | | | |
| Capital Construction & Expansion (WIF | \$20,629 | \$25,988 | \$26,547 | \$21,047 | \$40,187 |
| TOTAL CAPITAL PROGRAM | \$20,629 | \$25,988 | \$26,547 | \$21,047 | \$40,187 |
| • | | | | , , , | , , , , |
| DEBT SERVICE | | | | | |
| Financial Expenses | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest | 819 | 655 | 655 | 641 | 627 |
| Principal | 728 | 756 \$1,412 | 756 | 771 | 754 |
| TOTAL DEBT SERVICE | \$1,548 | \$1,412 | \$1,412 | \$1,412 | \$1,381 |
| TRANSFERS IN (OUT) | | | | | |
| Capital Contribution | (\$3,559) | (\$4,598) | (\$4,598) | (\$11,010) | (\$1,368) |
| Debt Service | (, , , , | 265 | (, , , | 123 | |
| Operation support to GG for Non-Cap | (320) | (2,176) | (2,176) | (1,307) | (298) |
| Capital - Connection Fees Allocation | 4,481 | 5,717 | 5,717 | 4,785 | 10,378 |
| TOTAL INTERFUND TRANSFERS IN (OUT) | \$909 | (\$792) | (\$792) | (\$7,409) | \$8,822 |
| FUND DALANCE | | | | | |
| FUND BALANCE | ¢7.170 | (¢10 E10) | (#12.240) | (¢10.00E) | (¢10.070) |
| Net Income (Loss) Beginning Fund Balance July 01 | \$7,163 76,837 | (\$10,519) 76,428 | (\$13,269) 84,000 | (\$12,335) 65,909 | (\$18,278) 70,731 |
| ENDING FUND BALANCE JUNE 30* | \$84,000 | \$65,909 | \$70,731 | \$53,574 | \$52,453 |
| • | , | 1 2 | , | | , ==, == |
| RESERVE BALANCE SUMMARY | A | ia | | +0. | |
| Operating Contingies | \$17,701 | \$21,323 | \$24,156 | \$21,931 | \$23,159 |
| Rehabilitation/Replacement | 27,331 | 10,783 | 10,500 | 10,783 | 7,311 |
| Debt Service | 1,412 | 1,412 | 1,412 | 1,412 | 1,381 |
| Sinking Fund | 37,557 | 32,390 | 34,663 | 19,448 | 20,602 |
| *Numbers may not tie due to rounding | \$84,000 | \$65,909 | \$70,731 | \$53,574 | \$52,453 |

^{*} Numbers may not tie due to rounding

INLAND EMPIRE UTILITIES AGENCY FISCAL YEAR 2020/21 MID-YEAR BUDGET RECYCLED WATER FUND - SOURCES AND USES OF FUNDS (In Thousands)

| | 2018/19 | 2019/20 | 2019/20 | 2020/21 | 2020/21 |
|--|-------------------------|---------------------------|---------------------------|-----------------------|------------------------|
| | | ADOPTED | AMENDED | ADOPTED | AMENDED |
| REVENUES | ACTUAL | BUDGET | BUDGET | BUDGET | MID-YEAR |
| Interest Revenue | \$769 | \$983 | \$983 | \$949 | \$708 |
| Water Sales | 13,902 | 18,120 | 18,120 | 18,752 | 16,155 |
| TOTAL REVENUES | \$14,670 | \$19,103 | \$19,103 | \$19,701 | \$16,863 |
| | • | | , | | |
| OTHER FINANCING SOURCES | | | | | |
| Property Tax - Debt/Capital | \$2,170 | \$2,170 | \$2,170 | \$2,170 | \$2,170 |
| Connection Fees | 5,916 | 7,915 | 7,915 | 8,032 | 7,915 |
| State Loans | 2,373 | 8,153 | 8,153 | 5,220 | 5,554 |
| Grants | 753 | 7,032 | 7,032 | 3,750 | 3,120 |
| Capital Contract Reimbursement | 88 | 2,075 | 2,075 | 702 | 1,875 |
| Other Revenues | 24 | 0 c 27.245 | 0 | 0 | 0 |
| TOTAL OTHER FINANCING SOURCES | \$ 11,324 | \$ 27,345 | \$ 27,345 | \$ 19,875 | \$ 20,633 |
| EXPENSES | | | | | |
| Employment Expenses | \$4,451 | \$5,184 | \$5,184 | \$5,370 | \$5,370 |
| Contract Work/Special Projects | 1,333 | 1,780 | 2,007 | 1,365 | 1,990 |
| Utilities | 2,240 | 2,801 | 2,696 | 2,885 | 2,885 |
| Operating Fees | 3 | 10 | 10 | 10 | 10 |
| Professional Fees and Services | 641 | 666 | 943 | 632 | 632 |
| Office and Administrative expenses | 4 | 3 | 3 | 3 | 3 |
| Materials & Supplies Other Expenses | 141 805 | 169 1,132 | 224 1,185 | 174 1,122 | 174 1,106 |
| TOTAL EXPENSES | \$ 9,619 | \$11,743 | \$12,250 | \$11,562 | \$12,170 |
| TOTAL EXITERSES | Ψ7,017 | ΨΤΙ// 43 | ψ12,230 | Ψ11,502 | Ψ12,170 |
| CAPITAL PROGRAM | | | | | |
| Work In Progress | \$6,636 | \$18,727 | \$23,849 | \$23,800 | \$3,570 |
| TOTAL CAPITAL PROGRAM | \$6,636 | \$18,727 | \$23,849 | \$23,800 | \$3,570 |
| | | | | | |
| DEBT SERVICE | ¢ 2 | ¢ 2 | ¢ 2 | ¢ο | ¢ ን |
| Financial Expenses Interest | \$2 2,870 | \$3 2,657 | \$3 2,657 | \$3 2,881 | \$3 2,933 |
| Principal Principal | 5,256 | 5,367 | 5,367 | 6,232 | 6,309 |
| Short Term Inter-Fund Loan | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 |
| TOTAL DEBT SERVICE | \$11,129 | \$11,027 | \$11,027 | \$12,116 | \$12,245 |
| | | . ,- | , ,- | , , | |
| TRANSFERS IN (OUT) | | | | | |
| Capital Contribution | (\$1,873) | (\$88) | (\$88) | (\$21) | (\$517) |
| Debt Service | 2,394 | 2,400 | 2,400 | 2,542 | 2,547 |
| Operation support | (526) | (836) | (836) | (755) | (533) |
| Water Connection Allocation TOTAL INTERFUND TRANSFERS IN (OUT) | (454) (\$459) | (2,021) (\$545) | (2,021) (\$545) | (950) \$816 | (1,473) \$24 |
| TOTAL INTERPOND TRANSFERS IN (OUT) | (\$437) | (\$343) | (\$343) | \$010 | ΨΖ4 |
| FUND BALANCE | | | | | |
| Net Income (Loss) | (\$1,848) | \$4,405 | (\$1,223) | (\$7,086) | \$9,536 |
| Beginning Fund Balance July 01 | 35,135 | 36,651 | 33,287 | 41,056 | 32,064 |
| ENDING BALANCE AT JUNE 30 | \$33,287 | \$41,056 | \$32,064 | \$33,970 | \$41,600 |
| RESERVE BALANCE SUMMARY | | | | | |
| Operating Contingency | \$3,206 | \$3,914 | \$4,083 | \$3,854 | \$4,057 |
| Capital Construction | 7,439 | 15,511 | 3,347 | 4,664 | 9,853 |
| Water Connection | 14,615 | 12,516 | 15,518 | 14,478 | 16,548 |
| Rehabilitation/Replacement (R&R) | 0 | 0 | 0 | 1,500 | 1,500 |
| Debt Service | 8,027 | 9,116 | 9,116 | 9,475 | 9,643 |
| ENDING BALANCE AT JUNE 30 | \$33,287 | \$41,056 | \$32,064 | \$33,970 | \$41,600 |
| * Numbers may not total due to rounding | , | | | | |

^{*}Numbers may not total due to rounding

INLAND EMPIRE UTILITIES AGENCY FISCAL YEAR 2020/2021 MID-YEAR BUDGET RECHARGE WATER FUND - SOURCES AND USES OF FUNDS (In Thousands)

| REVENUES ACTUAL ADDOPTION AD | | 2018/2019 | 2019/2020 | 2019/2020 | 2020/2021 | 2020/2021 |
|--|---------------------------------------|-----------|------------------|------------------|-----------|---|
| Property Tax - O&M | | | ADOPTED | AMENDED | ADOPTED | AMENDED |
| Property Tax - O&M Cost Reimbursement from JPA \$883 \$1,237 \$1,076 \$1,449 Contract Cost reimbursement 1,464 669 669 0 35 1nterest Revenue 62 115 115 160 40 100 100 115 115 160 40 100 100 100 115 115 160 40 100 1 | | ACTUAL | BUDGET | BUDGET | BUDGET | MID-YEAR |
| Cost Reimbursement from JPA \$883 \$1,237 \$1,076 \$1.449 Contract Cost reimbursement interest Revenue 1,464 69 69 0 35 Interest Revenues 62 115 115 160 40 TOTAL REVENUES \$2,409 \$1,421 \$1,421 \$1,236 \$1,252 OTHER FINANCING SOURCES State Loans \$0 \$1,256 \$1,256 \$3,764 \$8,800 Grants 482 4,845 4,845 11,521 7,488 Capital Contract Reimbursement 801 565 565 662 378 Other Revenues 17 0 0 0 0 0 Other Revenues \$1,299 \$6,665 \$655 \$662 378 Other Revenues \$1,299 \$6,665 \$8653 \$8677 \$16,666 EXPENSES \$803 \$653 \$653 \$677 \$677 EXPENSES \$1,299 \$6 6 70 85 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td></tr<> | | | | | | |
| Contract Cost reimbursement 1,464 69 69 0 35 Interest Revenue 62 115 115 160 40 TOTAL REVENUES \$2,409 \$1,421 \$1,421 \$1,236 \$1,523 OTHER FINANCING SOURCES State Loans \$0 \$1,256 \$1,256 \$3,764 \$8,800 Grants 482 4,845 4,845 11,521 7,488 Capital Contract Reimbursement 801 565 565 662 378 Other Revenues 17 0 0 0 0 0 EXPENSES \$1,299 \$6,665 \$655 \$665 \$15,947 \$16,666 EXPENSES \$1,299 \$6,665 \$653 \$677 < | · · · · · · · · · · · · · · · · · · · | ¢003 | ¢1 227 | ¢1 227 | ¢1.074 | ¢1 440 |
| Interest Revenue 62 | | | | | | |
| State Loans | | · | | | | |
| OTHER FINANCING SOURCES State Loans \$0 \$1,256 \$1,256 \$3,764 \$8,800 Grants 482 4,845 4,845 11,521 7,488 Capital Contract Reimbursement 801 565 565 662 378 Other Revenues 17 0 0 0 0 0 TOTAL OTHER FINANCING SOURCES \$1,299 \$6,665 \$6,665 \$15,947 \$16,666 EXPENSES Employment Expenses \$803 \$653 \$677 \$677 Contract Work/Special Projects 1,240 139 448 0 69 Utilities 59 68 68 70 85 Operating Fees 11 13 13 8 8 Professional Fees and Services 806 934 1,577 859 980 Office and Administrative expenses 0 15 15 16 16 Expense Allocation 0 53 53 52 49 | | | | | | |
| State Loans \$0 \$1,266 \$1,256 \$3,764 \$8,800 Grants 482 4,845 4,845 11,521 7,488 Capital Contract Reimbursement 801 565 565 662 378 Other Revenues 17 0 0 0 0 TOTAL OTHER FINANCING SOURCES \$1,299 \$6,665 \$6655 \$15,947 \$16,666 EXPENSES Bernoloyment Expenses \$803 \$653 \$677 \$677 Contract Work/Special Projects 1,240 139 448 0 69 Utilities 59 68 68 70 85 Operating Fees 11 13 13 8 8 Professional Fees and Services 806 934 1,577 859 980 Office and Administrative expenses 0 15 15 16 16 Expense Allocation 0 53 53 52 49 Materials & Supplies 120 9 | TOTAL REVENUES | \$2,407 | \$1,421 | Ψ1,421 | \$1,230 | \$1,525 |
| Grants 482 4,845 4,845 11,521 7,488 Capital Contract Reimbursement 801 565 565 662 378 Other Revenues 17 0 0 0 0 TOTAL OTHER FINANCING SOURCES \$1,299 \$6,665 \$15,947 \$16,666 EXPENSES \$803 \$653 \$653 \$677 \$677 Contract Work/Special Projects 1,240 139 448 0 69 Utilities 59 68 68 70 85 Operating Fees 11 13 13 8 8 Professional Fees and Services 806 934 1,577 859 980 Office and Administrative expenses 0 15 15 16 16 Expense Allocation 0 53 53 52 49 Materials & Supplies 120 98 112 101 129 TOTAL EXPENSES \$3,038 \$1,973 \$2,939 <td< td=""><td>OTHER FINANCING SOURCES</td><td></td><td></td><td></td><td></td><td></td></td<> | OTHER FINANCING SOURCES | | | | | |
| Capital Contract Reimbursement Other Revenues 801 565 565 662 378 Other Revenues 17 0 0 0 0 TOTAL OTHER FINANCING SOURCES \$1,299 \$6,665 \$6,665 \$15,947 \$16,666 EXPENSES Employment Expenses \$803 \$653 \$653 \$677 \$677 Contract Work/Special Projects 1,240 139 448 0 69 Utilities 59 68 68 70 85 Operating Fees 11 13 13 8 8 Professional Fees and Services 806 934 1,577 859 980 Office and Administrative expenses 0 15 15 16 16 Expense Allocation 0 53 53 52 49 Materials & Supplies 120 98 112 101 129 TOTAL EXPENSES \$3,038 \$1,973 \$2,939 \$1,782 \$2,013 C | State Loans State Loans | \$0 | | | \$3,764 | \$8,800 |
| Other Revenues 17 0 0 0 0 TOTAL OTHER FINANCING SOURCES \$1,299 \$6,665 \$6,665 \$15,947 \$16,666 EXPENSES Employment Expenses \$803 \$653 \$653 \$677 \$677 Contract Work/Special Projects 1,240 139 448 0 69 Utilities 59 68 68 70 85 Operating Fees 11 13 13 8 8 Professional Fees and Services 806 934 1,577 859 980 Office and Administrative expenses 0 15 15 16 16 Expense Allocation 0 53 53 52 49 Materials & Supplies 120 98 112 101 129 TOTAL EXPENSES \$3,038 \$1,973 \$2,939 \$1,782 \$2,013 CAPITAL PROGRAM \$647 \$5,000 \$5,000 \$13,184 \$14,204 DEBT | | | | | | |
| State | | | | | | |
| EXPENSES | | | | | | |
| Employment Expenses \$803 \$653 \$677 \$677 Contract Work/Special Projects 1,240 139 448 0 69 Utilities 59 68 68 70 85 Operating Fees 11 13 13 8 8 Professional Fees and Services 806 934 1,577 859 980 Office and Administrative expenses 0 15 15 16 16 Expense Allocation 0 53 53 52 49 Materials & Supplies 120 98 112 101 129 TOTAL EXPENSES \$3,038 \$1,973 \$2,939 \$1,782 \$2,013 CAPITAL PROGRAM Capital Expansion/Construction \$647 \$5,000 \$5,000 \$13,184 \$14,204 DEBT SERVICE Financial Expenses \$67 \$67 \$67 \$125 \$85 Interest 170 461 461 430 | TOTAL OTHER FINANCING SOURCES | \$1,299 | \$6,665 | \$6,665 | \$15,947 | \$16,666 |
| Employment Expenses \$803 \$653 \$677 \$677 Contract Work/Special Projects 1,240 139 448 0 69 Utilities 59 68 68 70 85 Operating Fees 11 13 13 8 8 Professional Fees and Services 806 934 1,577 859 980 Office and Administrative expenses 0 15 15 16 16 Expense Allocation 0 53 53 52 49 Materials & Supplies 120 98 112 101 129 TOTAL EXPENSES \$3,038 \$1,973 \$2,939 \$1,782 \$2,013 CAPITAL PROGRAM Capital Expansion/Construction \$647 \$5,000 \$5,000 \$13,184 \$14,204 DEBT SERVICE Financial Expenses \$67 \$67 \$67 \$125 \$85 Interest 170 461 461 430 | FYDENSES | | | | | |
| Contract Work/Special Projects 1,240 139 448 0 69 Utilities 59 68 68 70 85 Operating Fees 11 13 13 8 8 Professional Fees and Services 806 934 1,577 859 980 Office and Administrative expenses 0 15 15 16 16 Expense Allocation 0 53 53 52 49 Materials & Supplies 120 98 112 101 129 TOTAL EXPENSES \$3,038 \$1,973 \$2,939 \$1,782 \$2,013 CAPITAL PROGRAM \$647 \$5,000 \$5,000 \$13,184 \$14,204 DEBT SERVICE Financial Expenses \$67 \$67 \$67 \$125 \$85 Interest 170 461 461 430 215 Principal 710 739 739 769 769 TOTAL DEBT SERVICE | | \$803 | \$653 | \$653 | \$677 | \$677 |
| Utilities 59 68 68 70 85 Operating Fees 11 13 13 8 8 Professional Fees and Services 806 934 1,577 859 980 Office and Administrative expenses 0 15 15 16 16 Expense Allocation 0 53 53 52 49 Materials & Supplies 120 98 112 101 129 TOTAL EXPENSES \$3,038 \$1,973 \$2,939 \$1,782 \$2,013 CAPITAL PROGRAM \$647 \$5,000 \$5,000 \$13,184 \$14,204 TOTAL CAPITAL PROGRAM \$647 \$5,000 \$5,000 \$13,184 \$14,204 DEBT SERVICE Financial Expenses \$67 \$67 \$67 \$125 \$85 Interest 170 461 461 430 215 Principal 710 739 739 769 769 TOTAL DEBT SERVICE | , , | | | | | |
| Operating Fees 11 13 13 8 8 Professional Fees and Services 806 934 1,577 859 980 Office and Administrative expenses 0 15 15 16 16 Expense Allocation 0 53 53 52 49 Materials & Supplies 120 98 112 101 129 TOTAL EXPENSES \$3,038 \$1,973 \$2,939 \$1,782 \$2,013 CAPITAL PROGRAM Capital Expansion/Construction \$647 \$5,000 \$5,000 \$13,184 \$14,204 DEBT SERVICE Financial Expenses \$67 \$67 \$67 \$125 \$85 Interest 170 461 461 430 215 Principal 710 739 739 769 769 TRANSFERS IN (OUT) Capital Contribution \$39 \$44 \$44 \$0 \$30 Debt Service 473 | | | | | | |
| Professional Fees and Services 806 934 1,577 859 980 Office and Administrative expenses 0 15 15 16 16 Expense Allocation 0 53 53 52 49 Materials & Supplies 120 98 112 101 129 TOTAL EXPENSES \$3,038 \$1,973 \$2,939 \$1,782 \$2,013 CAPITAL PROGRAM \$647 \$5,000 \$5,000 \$13,184 \$14,204 TOTAL CAPITAL PROGRAM \$647 \$5,000 \$5,000 \$13,184 \$14,204 DEBT SERVICE Financial Expenses \$67 \$67 \$67 \$125 \$85 Interest 170 461 461 430 215 Principal 710 739 739 769 769 TOTAL DEBT SERVICE \$947 \$1,267 \$1,324 \$1,069 TRANSFERS IN (OUT) Capital Contribution \$39 \$44 \$44 | | | | | | |
| Office and Administrative expenses 0 15 15 16 16 Expense Allocation 0 53 53 52 49 Materials & Supplies 120 98 112 101 129 TOTAL EXPENSES \$3,038 \$1,973 \$2,939 \$1,782 \$2,013 CAPITAL PROGRAM \$647 \$5,000 \$5,000 \$13,184 \$14,204 DEBT SERVICE Financial Expenses \$67 \$67 \$67 \$125 \$85 Interest 170 461 461 430 215 Principal 710 739 739 769 769 TOTAL DEBT SERVICE \$947 \$1,267 \$1,324 \$1,069 TRANSFERS IN (OUT) Capital Contribution \$39 \$44 \$44 \$0 \$303 Debt Service 473 633 633 662 535 Operation support 598 757 757 707 522 | | 806 | | 1,577 | 859 | 980 |
| Expense Allocation 0 53 53 52 49 Materials & Supplies 120 98 112 101 129 TOTAL EXPENSES \$3,038 \$1,973 \$2,939 \$1,782 \$2,013 CAPITAL PROGRAM Capital Expansion/Construction \$647 \$5,000 \$5,000 \$13,184 \$14,204 DEBT SERVICE Financial Expenses \$67 \$67 \$67 \$125 \$85 Interest 170 461 461 430 215 Principal 710 739 739 769 769 TOTAL DEBT SERVICE \$947 \$1,267 \$1,267 \$1,324 \$1,069 TRANSFERS IN (OUT) Capital Contribution \$39 \$44 \$44 \$0 \$303 Debt Service 473 633 633 662 535 Operation support 598 757 757 707 522 Property Tax Transfer 9 25 25< | | 0 | 15 | 15 | 16 | 16 |
| Materials & Supplies 120 98 112 101 129 TOTAL EXPENSES \$3,038 \$1,973 \$2,939 \$1,782 \$2,013 CAPITAL PROGRAM Capit al Expansion/Construction \$647 \$5,000 \$5,000 \$13,184 \$14,204 TOTAL CAPITAL PROGRAM \$647 \$5,000 \$5,000 \$13,184 \$14,204 DEBT SERVICE Financial Expenses \$67 \$67 \$67 \$125 \$85 Interest 170 461 461 430 215 Principal 710 739 739 769 769 TOTAL DEBT SERVICE \$947 \$1,267 \$1,324 \$1,069 TRANSFERS IN (OUT) Capit al Contribution \$39 \$44 \$44 \$0 \$303 Debt Service 473 633 633 662 535 Operation support 598 757 757 707 522 Property Tax Transfer 9 | | 0 | 53 | 53 | 52 | 49 |
| CAPITAL PROGRAM Capital Expansion/Construction \$647 \$5,000 \$13,184 \$14,204 TOTAL CAPITAL PROGRAM \$647 \$5,000 \$5,000 \$13,184 \$14,204 DEBT SERVICE Financial Expenses \$67 \$67 \$67 \$125 \$85 Interest 170 461 461 430 215 Principal 710 739 739 769 769 TOTAL DEBT SERVICE \$947 \$1,267 \$1,324 \$1,069 TRANSFERS IN (OUT) Capital Contribution \$39 \$44 \$44 \$0 \$303 Debt Service 473 633 633 662 535 Operation support 598 757 757 707 522 Property Tax Transfer 9 25 25 5 33 | - | 120 | 98 | 112 | 101 | 129 |
| Capital Expansion/Construction \$647 \$5,000 \$5,000 \$13,184 \$14,204 TOTAL CAPITAL PROGRAM \$647 \$5,000 \$5,000 \$13,184 \$14,204 DEBT SERVICE Financial Expenses \$67 \$67 \$67 \$125 \$85 Interest 170 461 461 430 215 Principal 710 739 739 769 769 TOTAL DEBT SERVICE \$947 \$1,267 \$1,324 \$1,069 TRANSFERS IN (OUT) Capital Contribution \$39 \$44 \$44 \$0 \$303 Debt Service 473 633 633 662 535 Operation support 598 757 757 707 522 Property Tax Transfer 9 25 25 5 33 | TOTAL EXPENSES | \$3,038 | \$1,973 | \$2,939 | \$1,782 | \$2,013 |
| Capital Expansion/Construction \$647 \$5,000 \$5,000 \$13,184 \$14,204 TOTAL CAPITAL PROGRAM \$647 \$5,000 \$5,000 \$13,184 \$14,204 DEBT SERVICE Financial Expenses \$67 \$67 \$67 \$125 \$85 Interest 170 461 461 430 215 Principal 710 739 739 769 769 TOTAL DEBT SERVICE \$947 \$1,267 \$1,324 \$1,069 TRANSFERS IN (OUT) Capital Contribution \$39 \$44 \$44 \$0 \$303 Debt Service 473 633 633 662 535 Operation support 598 757 757 707 522 Property Tax Transfer 9 25 25 5 33 | | | | | | |
| TOTAL CAPITAL PROGRAM \$647 \$5,000 \$13,184 \$14,204 DEBT SERVICE Financial Expenses \$67 \$67 \$67 \$125 \$85 Interest 170 461 461 430 215 Principal 710 739 739 769 769 TOTAL DEBT SERVICE \$947 \$1,267 \$1,267 \$1,324 \$1,069 TRANSFERS IN (OUT) Capital Contribution \$39 \$44 \$44 \$0 \$303 Debt Service 473 633 633 662 535 Operation support 598 757 757 707 522 Property Tax Transfer 9 25 25 5 33 | | | | | | |
| DEBT SERVICE Financial Expenses \$67 \$67 \$67 \$125 \$85 Interest 170 461 461 430 215 Principal 710 739 739 769 769 TOTAL DEBT SERVICE \$947 \$1,267 \$1,267 \$1,324 \$1,069 TRANSFERS IN (OUT) Capital Contribution \$39 \$44 \$44 \$0 \$303 Debt Service 473 633 633 662 535 Operation support 598 757 757 707 522 Property Tax Transfer 9 25 25 5 33 | | | | | | |
| Financial Expenses \$67 \$67 \$125 \$85 Interest 170 461 461 430 215 Principal 710 739 739 769 769 TOTAL DEBT SERVICE \$947 \$1,267 \$1,267 \$1,324 \$1,069 TRANSFERS IN (OUT) Capital Contribution \$39 \$44 \$44 \$0 \$303 Debt Service 473 633 633 662 535 Operation support 598 757 757 707 522 Property Tax Transfer 9 25 25 5 33 | TOTAL CAPITAL PROGRAM | \$647 | \$5,000 | \$5,000 | \$13,184 | \$14,204 |
| Financial Expenses \$67 \$67 \$125 \$85 Interest 170 461 461 430 215 Principal 710 739 739 769 769 TOTAL DEBT SERVICE \$947 \$1,267 \$1,267 \$1,324 \$1,069 TRANSFERS IN (OUT) Capital Contribution \$39 \$44 \$44 \$0 \$303 Debt Service 473 633 633 662 535 Operation support 598 757 757 707 522 Property Tax Transfer 9 25 25 5 33 | DEDT SEDVICE | | | | | |
| Interest 170 461 461 430 215 Principal 710 739 739 769 769 TOTAL DEBT SERVICE \$947 \$1,267 \$1,267 \$1,324 \$1,069 TRANSFERS IN (OUT) Capital Contribution \$39 \$44 \$44 \$0 \$303 Debt Service 473 633 633 662 535 Operation support 598 757 757 707 522 Property Tax Transfer 9 25 25 5 33 | | \$67 | \$67 | \$67 | ¢125 | \$ 25 |
| Principal 710 739 739 769 769 TOTAL DEBT SERVICE \$947 \$1,267 \$1,267 \$1,324 \$1,069 TRANSFERS IN (OUT) Capital Contribution \$39 \$44 \$44 \$0 \$303 Debt Service 473 633 633 662 535 Operation support 598 757 757 707 522 Property Tax Transfer 9 25 25 5 33 | · | | | | | |
| TOTAL DEBT SERVICE \$947 \$1,267 \$1,267 \$1,324 \$1,069 TRANSFERS IN (OUT) Capital Contribution \$39 \$44 \$44 \$0 \$303 Debt Service 473 633 633 662 535 Operation support 598 757 757 707 522 Property Tax Transfer 9 25 25 5 33 | | | | | | |
| TRANSFERS IN (OUT) Capit al Contribution \$39 \$44 \$44 \$0 \$303 Debt Service 473 633 633 662 535 Operation support 598 757 757 707 522 Property Tax Transfer 9 25 25 5 33 | • | | | | | |
| Capital Contribution \$39 \$44 \$44 \$0 \$303 Debt Service 473 633 633 662 535 Operation support 598 757 757 707 522 Property Tax Transfer 9 25 25 5 33 | | | | . , . | . , , | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| Debt Service 473 633 633 662 535 Operation support 598 757 757 707 522 Property Tax Transfer 9 25 25 5 33 | TRANSFERS IN (OUT) | | | | | |
| Operation support 598 757 757 707 522 Property Tax Transfer 9 25 25 5 33 | Capital Contribution | \$39 | \$44 | \$44 | \$0 | \$303 |
| Property Tax Transfer 9 25 25 5 33 | Debt Service | 473 | 633 | 633 | 662 | 535 |
| | | | | | 707 | 522 |
| TOTAL INTERFUND TRANSFERS IN (OUT) \$1,119 \$1,460 \$1,460 \$1,374 \$1,393 | | | | | | |
| | TOTAL INTERFUND TRANSFERS IN (OUT) | \$1,119 | \$1,460 | \$1,460 | \$1,374 | \$1,393 |
| FUND BALANCE | FUND DALANCE | | | | | |
| Net Income (Loss) \$195 \$1,306 \$340 \$2,267 \$2,296 | | \$105 | \$1.306 | \$340 | \$2.267 | \$2.296 |
| Beginning Fund Balance July 01 3,246 4,108 3,441 5,414 3,780 | | | | | | |
| ENDING FUND BALANCE AT JUNE 30* \$3,441 \$5,414 \$3,780 \$7,681 \$6,077 | | | | | | |
| ψο/111 ψο/100 ψ/100 ψ/1 | ENDING FORD BALANTOE AN SOME SO | ΨΟ/ΙΙΙ | ΨΟ/ΙΙΙ | 40//00 | Ψ7,001 | ψογοττ |
| RESERVE BALANCE SUMMARY | RESERVE BALANCE SUMMARY | | | | | |
| Operating Contingencies \$1,013 \$987 \$980 \$891 \$1,006 | | \$1,013 | \$987 | \$980 | \$891 | \$1,006 |
| Capital Expansion / Construction 1,161 2,648 1,476 5,010 3,291 | | | | | | |
| Debt Service & Redemption 1,267 1,779 1,324 1,779 1,779 | | 1,267 | 1,779 | 1,324 | 1,779 | |
| ENDING BALANCE AT JUNE 30 \$3,441 \$5,414 \$3,780 \$7,681 \$6,077 | ENDING BALANCE AT JUNE 30 | \$3,441 | \$5 <u>,</u> 414 | \$3 <u>,</u> 780 | \$7,681 | |

^{*}Numbers may not total due to rounding

INLAND EMPIRE UTILITIES AGENCY FISCAL YEAR 2020/21 MID-YEAR BUDGET WATER RESOURCES FUND - SOURCES AND USES OF FUNDS (In Thousands)

| | 2018/2019 | 2019/2020 | 2019/2020 | 2020/2021 | 2020/2021 |
|---|-----------|-----------|------------|-----------|-----------|
| | A OTHAI | ADOPTED | AMENDED | ADOPTED | AMENDED |
| REVENUES | ACTUAL | BUDGET | BUDGET | BUDGET | MID-YEAR |
| User Charges | \$6,266 | \$6,757 | \$6,757 | \$7,397 | \$7,299 |
| Contract Cost reimbursement | 251 | 683 | 683 | 734 | 749 |
| Interest Revenue | 198 | 202 | 134 | 166 | 120 |
| Water Sales | 45,519 | 44,724 | 44,724 | 46,236 | 46,092 |
| Gas Sales | 0 | 0 | 0 | 0 | 0 |
| TOTAL REVENUES | \$52,234 | \$52,366 | \$52,298 | \$54,533 | \$54,260 |
| OTHER FINANCING SOURCES | | | | | |
| Propety Tax - Debt and Capital | \$4,873 | \$4,637 | \$4,637 | \$5,186 | \$5,186 |
| Grants | 179 | 0 | 0 | 10 | 30 |
| Other Revenues | 17 | 0 | 0 | 0 | 0 |
| TOTAL OTHER FINANCING SOURCES | \$5,069 | \$4,637 | \$4,637 | \$5,196 | \$5,216 |
| EXPENSES | | | | | |
| Employment Expenses | \$2,110 | \$2,868 | \$2,868 | \$2,971 | \$2,971 |
| Contract Work/Special Projects | 2,086 | 4,498 | 11,309 | 2,751 | 2,638 |
| Utilities | 0 | 0 | 0 | 0 | 0 |
| Operating Fees | 3,031 | 3,105 | 3,105 | 3,198 | 3,198 |
| Chemicals | 0 | 0 | 0 | 0 | 0 |
| Professional Fees and Services | 204 | 272 | 319 | 276 | 276 |
| Office and Administrative expenses | 0 | 64 | 64 | 64 | 64 |
| MWD Water Purchases | 45,519 | 44,724 | 44,724 | 46,236 | 46,092 |
| Other Expenses | 246 | 343 | 343 | 341 | 325 |
| TOTAL EXPENSES | \$53,197 | \$55,872 | \$62,731 | \$55,837 | \$55,564 |
| CAPITAL PROGRAM | | | | | |
| Capital Construction & Expansion (WIP) | \$1,022 | \$6,550 | \$6,550 | \$3,575 | \$3,543 |
| TOTAL CAPITAL PROGRAM | \$1,022 | \$6,550 | \$6,550 | \$3,575 | \$3,543 |
| DEBT SERVICE | | | | | |
| TOTAL DEBT SERVICE | \$0 | \$0 | \$0 | \$0 | \$0 |
| | · | · · · | · | <u> </u> | |
| TRANSFERS IN (OUT) | | | | | |
| Water Connections | \$436 | \$1,947 | \$1,947 | \$917 | \$1,379 |
| Property Tax Transfer | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL INTERFUND TRANSFERS IN (OUT) | \$436 | \$1,947 | \$1,947 | \$917 | \$1,379 |
| FUND BALANCE | | | | | |
| Net Income (Loss) | \$3,521 | (\$3,472) | (\$10,400) | \$1,235 | \$1,749 |
| Beginning Fund Balance July 01 | 10,568 | 9,985 | 14,089 | 6,513 | 3,689 |
| ENDING FUND BALANCE AT JUNE 30 | \$14,089 | \$6,513 | \$3,689 | \$7,748 | \$5,438 |
| RESERVE BALANCE SUMMARY | | | | | |
| Capital / Operation Contingencies | \$5,258 | \$6,180 | \$3,689 | \$5,742 | \$5,438 |
| Water Resources Capital | 8,831 | 332 | 0 | 2,006 | 0 |
| ENDING BALANCE AT JUNE 30 | \$14,089 | \$6,513 | \$3,689 | \$7,748 | \$5,438 |
| * Numbers may not total due to rounding | | | | | |

INLAND EMPIRE UTILITIES AGENCY FISCAL YEAR 2020/21 MID-YEAR BUDGET NON-RECLAIMABLE WASTEWATER FUND - SOURCES AND USES OF FUNDS (In Thousands)

| _ | 2018/2019 | 2019/2020 | 2019/2020 | 2020/2021 | 2020/2021 |
|---|-------------|-------------------|---------------------------------------|-------------------|---------------------|
| | ACTUAL | ADOPTED BUDGET | AMENDED BUDGET | ADOPTED BUDGET | AMENDED MID-YEAR |
| REVENUES | ACIUAL | BODGEI | BODGEI | BODGEI | WID-TEAK |
| User Charges | \$12,050 | \$12,370 | \$12,370 | \$12,727 | \$12,509 |
| Interest Revenue | 456 | 583 | 583 | 461 | 573 |
| TOTAL REVENUES | \$12,506 | \$12,953 | \$12,953 | \$13,188 | \$13,082 |
| OTHER FINIA NICINIC SOURCES | | | | | |
| OTHER FINANCING SOURCES Other Revenues | \$490 | \$250 | \$250 | \$200 | \$200 |
| Loan Transfer from Internal Fund | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 |
| TOTAL OTHER FINANCING SOURCES | \$3,490 | \$3,250 | \$5,615 | \$3,200 | \$3,200 |
| · | | | | | |
| EXPENSES | | | | | |
| Employment Expenses | \$2,128 | \$2,517 | \$2,517 | \$2,608 | \$2,608 |
| Contract Work/Special Projects | 133 | 600 | 600 | 100 | 300 |
| Utilities | 7 420 | 91 | 91 | 93 | 93 |
| Operating Fees Chemicals | 7,420 92 | 6,905 130 | 6,905 130 | 7,208 134 | 7,208 134 |
| Professional Fees and Services | 115 | 191 | 212 | 197 | 197 |
| Office and Administrative expenses | 0 | 24 | 24 | 24 | 24 |
| Biosolids Recycling | 18 | 35 | 35 | 36 | 36 |
| Materials & Supplies | 55 | 84 | 86 | 86 | 86 |
| Other Expenses | 287 | 460 | 460 | 455 | 425 |
| TOTAL EXPENSES | \$10,333 | \$11,036 | \$11,059 | \$10,941 | \$11,112 |
| | | | | | |
| CAPITAL PROGRAM | | | | | |
| CSDLAC 4Rs SRF Loan | \$705 | \$737 | \$737 | \$0 | \$0 |
| Capital Expansion/Construction | 560 | 8,950 | 8,950 | 13,750 | 4,085 |
| TOTAL CAPITAL PROGRAM | \$1,265 | \$9,687 | \$9,687 | \$13,750 | \$4,085 |
| DEBT SERVICE | | | | | |
| Financial Expenses | \$4 | \$1 | \$1 | \$1 | \$1 |
| Interest | 306 | 280 | 280 | 268 | 268 |
| Principal | 294 | 305 | 305 | 317 | 317 |
| TOTAL DEBT SERVICE | \$604 | \$586 | \$586 | \$586 | \$585 |
| | | | | | |
| TRANSFERS IN (OUT) | (\$34) | (\$44) | (# 4 4) | (#21) | (#02) |
| Capital Contribution Operation support | (12) | (79) | (\$44) (79) | (\$21) (48) | (\$82) (11) |
| Property Tax Transfer | 166 | 2,292 | 2,292 | 3,324 | 1,157 |
| TOTAL INTERFUND TRANSFERS IN (OUT) | \$121 | \$2,169 | \$2,169 | \$3,255 | \$1,064 |
| | * | 7-/1 | 7-7 | + - / | 4 1/00 1 |
| FUND BALANCE | | | | | |
| Net Income (Loss) | \$3,915 | (\$2,938) | (\$596) | (\$5,634) | \$1,564 |
| Beginning Fund Balance July 01 | 9,818 | 15,188 | 13,734 | 12,251 | 13,138 |
| ENDING FUND BALANCE AT JUNE 30* | \$13,734 | \$12,251 | \$13,138 | \$6,617 | \$14,702 |
| DECEDVE DATANICE CHAMAAADV | | | | | |
| RESERVE BALANCE SUMMARY Capital/Operations Contingencies | \$3,444 | \$3,679 | \$3,686 | \$3,647 | \$3,704 |
| Capital Construction | 8,999 | 7,249 | 8,129 | 2,384 | 10,413 |
| CSDLAC Prepayment | 705 | 7,247 | 737 | 2,304 | 0 |
| Debt Service | 586 | 586 | 585 | 586 | 585 |
| ENDING BALANCE AT JUNE 30 | \$13,734 | \$12,251 | \$13,138 | \$6,617 | \$14,702 |
| * Numbers may not total due to rounding | | - | · · · · · · · · · · · · · · · · · · · | | |

^{*} Numbers may not total due to rounding

INLAND EMPIRE UTILITIES AGENCY FISCAL YEAR 2020/21 MID-YEAR BUDGET ADMINISTRATIVE SERVICES FUND - SOURCES AND USES OF FUNDS (In Thousands)

| _ | 2018/2019 | 2019/2020 | 2019/2020 | 2020/2021 | 2020/2021 |
|--|------------------|----------------|----------------|----------------|----------------|
| | | ADOPTED | AMENDED | ADOPTED | AMENDED |
| _ | ACTUAL | BUDGET | BUDGET | BUDGET | MID-YEAR |
| REVENUES | | | | | |
| Property Tax | \$1,972 | \$1,972 | \$1,972 | \$1,972 | \$1,972 |
| Cost Reimbursement from JPA | 1,112 | 1,383 | 1,383 | 1,382 | 1,382 |
| Interest Revenue | 365 | 320 | 320 | 295 | 315 |
| TOTAL REVENUES | \$3,449 | \$3,675 | \$3,675 | \$3,649 | \$3,669 |
| OTHER FINANCING SOURCES | | | | | |
| Other Revenues | \$171 | \$2 | \$2 | \$2 | \$2 |
| TOTAL OTHER FINANCING SOURCES | \$171 | \$2 | \$2 | \$2 | \$2 |
| EVDENICE | | | | | |
| EXPENSES | ¢2.207 | ¢2.470 | ¢2.470 | ¢1 / 70 | ¢1 FF0 |
| Employment Expenses | \$2,207 | \$2,469 | \$2,469 | \$1,679 | \$1,559 |
| Contract Work/Special Projects Utilities | 430 | 2,335 | 2,350 | 1,403 | 442 |
| Operating Fees | 573 13 | 806 12 | 798 21 | 830 12 | 830 12 |
| Professional Fees and Services | | | | | |
| Office and Administrative expenses | 3,097 1,606 | 4,830 2,571 | 5,552 2,711 | 4,737 2,798 | 4,250 2,798 |
| Biosolids Recycling | 1,000 | 2,371 | 2,711 | 2,790 | 2,790 |
| Materials & Supplies | 648 | 614 | 616 | 570 | 570 |
| Other Expenses | (3,858) | (6,241) | (6,241) | (6,164) | (5,679) |
| TOTAL EXPENSES | \$4,727 | \$7,397 | \$8,275 | \$5,864 | \$4,781 |
| IOTAL EXPENSES | \$4,727 | Φ1,371 | \$0,273 | Φ 3,004 | Φ4,701 |
| CAPITAL PROGRAM | | | | | |
| Capital Expansion & Construction | \$1,283 | \$2,310 | \$2,868 | \$1,200 | \$3,305 |
| TOTAL CAPITAL PROGRAM | \$1,283 | \$2,310 | \$2,868 | \$1,200 | \$3,305 |
| | | | | | |
| DEBT SERVICE | | | | | |
| Financial Expenses | \$39 | \$18 | \$18 | \$18 | \$18 |
| TOTAL DEBT SERVICE | \$39 | \$18 | \$18 | \$18 | \$18 |
| TRANSFERS IN (OUT) | | | | | |
| Capital Contribution | \$1,002 | \$1,286 | \$1,286 | \$626 | \$2,400 |
| Operation support | 259 | 2,335 | 2,335 | 1,403 | 319 |
| Capital - Connection Fees Allocation | 360 | 975 | 975 | 547 | 966 |
| One Water | 9 | 49 | 49 | 27 | 60 |
| TOTAL INTERFUND TRANSFERS IN (OUT) | \$1,629 | \$4,645 | \$4,645 | \$2,603 | \$3,746 |
| _ | | | | | |
| FUND BALANCE | | | | | |
| Net Income (Loss) | (\$800) | (\$1,403) | (\$2,840) | (\$828) | (\$686) |
| Beginning Fund Balance July 01 | 13,741 | 13,681 | 12,941 | 12,279 | 10,102 |
| ENDING FUND BALANCE AT JUNE 30* | \$12,941 | \$12,279 | \$10,102 | \$11,450 | \$9,416 |
| RESERVE BALANCE SUMMARY | | | | | |
| Operating Contingency | \$2,364 | \$3,279 | \$2,758 | \$2,450 | \$1,594 |
| Self-Insurance Program | \$2,304 4,578 | 3,000 | 3,000 | 3,000 | 3,000 |
| Employee Retirement Benefit | 6,000 | 6,000 | 4,343 | 6,000 | 4,822 |
| ENDING BALANCE AT JUNE 30 | \$12,941 | \$12,279 | | \$11,450 | |
| *Numbers may not total due to rounding | φ1Z,74 I | Φ12,219 | \$10,102 | φ11,43U | \$9,416 |

^{*}Numbers may not total due to rounding

FY 2020/21 Proposed Budget Amendment, Rates and Fees









Budget Amendment Assumptions

Sources of funds:

- 12-month deferral of adopted and proposed rates for FY 2020/21
- Reduction of recycled water deliveries based on current demand trends
- Alignment of loan proceeds consistent with proposed Ten-Year Forecast (TYF)

Uses of funds:

- Projects based on proposed TYF for FYs 2020/21 2029/30
 - Facility expansion based on projected growth
 - o Asset Management: Replacement, Repair, and Improvement
- Reduction of certain projects and costs that could be delayed to help offset the projected revenue loss from the proposed rate deferral



Proposed Rates

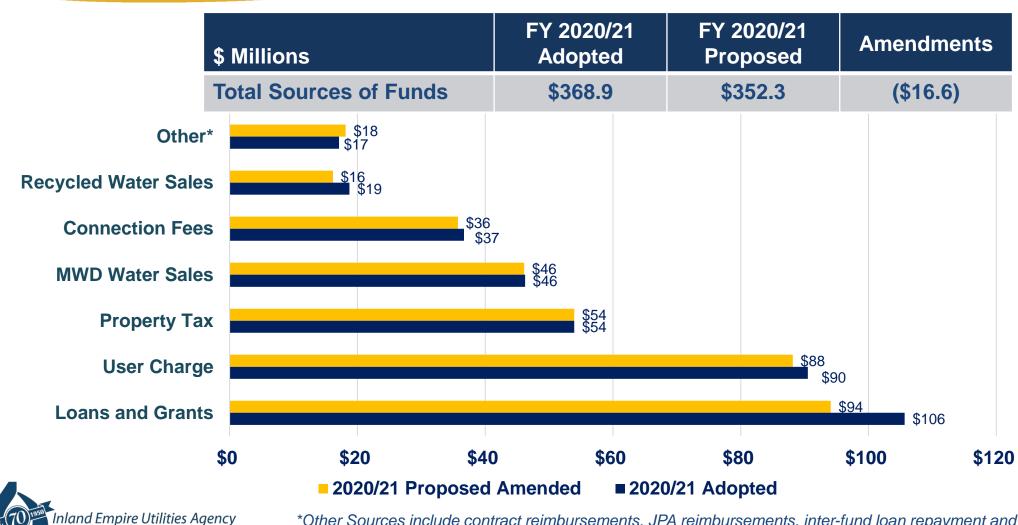
| Fund | Wastewater Operation | Wastewater Capital | Recycled Water | | Water Res | sources | |
|--------------|-------------------------|---------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|------------------------------------|-----------------|
| As of July 1 | Monthly Sewer (EDU) | Wastewater Connection Fee (EDU) | Recycled Water Direct Use (AF) | Recycled Water Recharge (AF) | One Water Connection Fee (MEU) | Meter Equivalent Units (MEU) | RTS Recovery |
| FY 2019/20 | \$20.00 | \$6,955 | \$490 | \$550 | \$1,684 | \$1.04 | 60% |
| | ADOPTED | PROPOSED | | | | | |
| FY 2020/21* | \$20.00 | \$6,955 | \$490 | \$550 | \$1,684 | \$1.04 | 75% |
| FY 2021/22 | \$21.22 | \$7,379 | \$520 | \$580 | \$1,787 | \$1.08 | 90% |
| FY 2022/23 | | | To be determined after | | \$1,841 | \$1.10 | 100% |
| FY 2023/24 | | sed on the sewer use on results | additional even ensure long-te | | \$1,896 | \$1.12 | 100% |
| FY 2024/25 | | | sustaina | ability | \$1,953 | \$1.14 | 100% |

Not shown are the pass-through rates for the Non-Reclaimable Wastewater program.



SOURCES OF FUNDS

A MUNICIPAL WATER DISTRIC



^{*}Other Sources include contract reimbursements, JPA reimbursements, inter-fund loan repayment and interest earnings.

USES OF FUNDS

| \$ Millions | FY 2020/21 Adopted | FY 2020/21 Proposed | Amendments |
|----------------------------|-----------------------|------------------------|------------|
| Total Uses of Funds | \$369.3 | \$361.2 | (\$8.1) |





Proposed Budget Adjustments to Offset Fiscal Impact of Rate Deferral

| Category | FY 2020/21 Budget Deferral (\$ Millions) |
|------------------------------|--|
| Non-Capital Projects | (\$2.2) |
| Professional Fees & Services | <u>(\$0.5)</u> |
| Total O&M Deferral | (\$2.7) |
| Capital Project Deferral | <u>(\$1.4)</u> |
| Total FY 2020/21 Deferral | (\$4.1) |



FY 2020/21 Proposed Budget Amendments (\$Millions)

| Consolidated FY 2020/21 | Adopted | Proposed | Amendment Amount |
|-------------------------------------|-----------|-----------|---------------------|
| Total Sources of Funds | \$368.9 | \$ 352.3 | (\$16.6) |
| Total Uses of Funds | (\$369.3) | (\$361.2) | \$8.1 |
| Increase (Decrease) in Net Position | (\$0.4) | (\$8.9) | \$8.5 |



RATE RESOLUTIONS

| Resolution No. | Description |
|----------------|--|
| 2020-7-1 | Service Rates and Excessive Strength Charges for Regional or Industrial Wastewater Discharge |
| 2020-7-2 | Service Rates on Capacity, Volumetric, Strength, Capital Improvement, and Application Fees for the Etiwanda Wastewater Line (EWL) |
| 2020-7-3 | Service Rates on Capacity, Volumetric, Strength, and Application Fees for the Non-Reclaimable Wastewater System (NRWS) |
| 2020-7-4 | Service Rates on Capacity, Volumetric, Strength, Capital Improvement, and Application Fees for the Inland Empire Brine Line (IEBL) |
| 2020-7-5 | Laboratory Rates |
| 2020-7-6 | Extra-Territorial Sewer Charges |
| 2020-7-7 | Imported Water Rates |
| 2020-7-8 | Equipment Rental Fees |
| 2020-7-9 | Establishing the Recycled Water Sales Rate |
| 2020-7-10 | Reimbursement Payment per EDU (Wastewater Connection Fee) |
| 2020-7-11 | Establishing the Water Connection Fee |
| 2020-7-12 | Establishing the Meter Equivalent Unit Rates |



Recommendation

- Approve amendments to the FY 2020/21 Adopted Budget;
- Approve the inter-fund loan repayment of \$3 million from the Recycled Water fund to the Non-Reclaimable Wastewater in FY 2020/21; and
- Approve Rate Resolutions No. 2020-7-1 through 2020-7-12.

The proposed amendments to the FY 2020/21 Adopted Budget are consistent with the IEUA Business Goals of Fiscal Responsibility, Water Reliability, Wastewater Management, Environmental Stewardship and Business Practices.



RESOLUTION NO. 2020-7-1

RESOLUTION OF THE BOARD OF DIRECTORS OF THE INLAND EMPIRE UTILITIES AGENCY*, SAN BERNARDINO COUNTY, CALIFORNIA, ESTABLISHING SERVICE RATES FOR WASTEWATER DISCHARGERS TO THE REGIONAL WASTEWATER SYSTEM FOR SEPTAGE, COMMERCIAL OR INDUSTRIAL WASTEWATERS, AND EXCESSIVE STRENGTH CHARGES FOR FISCAL YEAR 2020/21.

WHEREAS, it is necessary to establish service rates for processing and issuing permits to domestic, commercial, or industrial wastewater dischargers and wastewater haulers permitted by IEUA, and service rates for processing and treatment of sanitary, commercial or industrial wastewater deliveries to the Inland Empire Utilities Agency (Agency)'s Regional Wastewater System;

WHEREAS, it is necessary to establish application fees for processing and issuing of wastewater discharge permits to industrial wastewater generators who discharge directly through pipeline connections to the Regional Sewer System;

WHEREAS, the Board of Directors of the Inland Empire Utilities Agency*, pursuant to Ordinance No. 97, may establish said service rates by resolution.

NOW, THEREFORE, the Board of Directors hereby RESOLVES, DETERMINES, AND ORDERS the following to be effective July 1, 2020, and remain in effect until rescinded by a new resolution:

<u>Section 1</u> That Wastewater Permit Application for Domestic Wastewater Hauler fees is as follow:

Initial Permit Application Fee \$250.00 Permit Renewal Fee \$125.00

<u>Section 2</u> That wastewater volumetric fee for domestic and industrial wastewater hauler is as follow:

For each load up to 2,000 gallons \$76.05

Loads in excess of 2,000 gallons \$ 0.038 per one (1) gallon

<u>Section 3</u> That a rate schedule effective July 1, 2020, for delivery of domestic and industrial wastewater to regional plants with excessive biochemical oxygen demand and suspended solids is hereby established as follows:

| Quantity | <u>Rate</u> |
|---|-------------------------------------|
| Biochemical Oxygen Demand (BOD) in excess of 395 mg/L | \$ 327.01 per 1,000 lb (dry weight) |
| Suspended Solids (SS) in excess of 402 mg/L | \$ 332.10 per 1,000 lb (dry weight) |

<u>Section 4</u> A Non-Compliance fee of \$150.00 shall be assessed to reinstate elapsed or expired insurance requirements.

<u>Section 5</u> That Initial Wastewater Discharge Permit Application and Permit Renewal fees for wastewater generators who discharge directly through pipeline connection to the Regional Sewer System shall be:

Initial Wastewater Discharge Permit Application Fees (Ownership Change with Process Changes included):

Non-Categorical, Significant Industrial User

Non-Categorical, Non-Significant Industrial User

| Categorical Industrial User with Combined Waste Stream Formula, add with Production Based Standards, add with Multiple Categories, add Non-Categorical, Significant Industrial User Non-Categorical, Non-Significant Industrial User | \$4,375.00 \$1,063.00 \$563.00 \$2,125.00 \$3,188.00 \$2,625.00 |
|--|--|
| Permit Renewal Fees: | |
| Categorical Industrial User with Combined Waste Stream Formula, add with Production Based Standards, add with Multiple Categories, add | \$3,250.00 \$563.00 \$313.00 \$1,063.00 |

\$813.00

\$563.00

<u>Section 6</u> That Initial Wastewater Discharge Permit Application, Ownership Change with Process Changes, and Permit Renewal fees for wastewater generators whose wastewater is hauled away, i.e., by a wastewater trucking company, and discharged into the NRWS sewer system shall be:

Initial Wastewater Discharge Permit Application Fees:

(Ownership Change with Process Changes included)

| Categorical Industrial User | \$2,750.00 |
|--|------------|
| with Combined Waste Stream Formula, add | \$1,063.00 |
| with Production Based Standards, add | \$563.00 |
| with Multiple Categories, add | \$2,125.00 |
| Non-Categorical, Significant Industrial User | \$1,625.00 |
| Non-Categorical, Non-Significant Industrial User | \$1,063.00 |

Permit Renewal Fees:

| Categorical Industrial User | \$2,250.00 |
|--|------------|
| with Combined Waste Stream Formula, add | \$563.00 |
| with Production Based Standards, add | \$313.00 |
| with Multiple Categories, add | \$1,063.00 |
| Non-Categorical, Significant Industrial User | \$813.00 |
| Non-Categorical, Non-Significant Industrial User | \$563.00 |

| Section 7 | That Permit Revision or Facility Expansion fees shall | \$1,625.00 |
|-----------|---|------------|
| be: | | φ1,023.00 |

Permit Revisions shall be required if the modification affects the quantity/quality of the wastewater discharge to deviate from the conditions in the current permit by more than 25%. Such additions or modifications include, but are not limited to, the following: Maintenance, Monitoring, Change of Discharge Limits, Addition of Control Equipment, Process Changes, etc.

| Section 8 | That for | change | of | business | name | with | no | process | \$250.00 |
|-------------|----------|--------|----|----------|------|------|----|---------|----------|
| changes sha | ll be: | | | | | | | | Ψ230.00 |

That Permit Addendum fees shall be: \$813.00

Permit Addendum shall be required if the addition or modification does not affect the existing wastewater quantity/quality by more than 25%. Such additions or modifications include, but are not limited to, the following: Maintenance, Monitoring, Change of Discharge Limits, Addition of Control Equipment, Ownership Change without Process Changes, etc.

Section 9 That IEUA will pass on to wastewater permit holder any other charges, such as, but not limited to, excessive strength charges, laboratory analysis charges,

Resolution No. 2020-7-1 Regional Rates Page 4 of 5

inspection activity charges, etc.

<u>Section 10</u> Miscellaneous processing fees that do not fall under any of the above sections shall be charged based on time and material of staff(s) evaluating such process using adopted labor rates for the current fiscal year.

<u>Section 11</u> That all provisions of the Regional Wastewater Ordinance and any amendments thereto are hereby applicable and will remain in full force and effect.

<u>Section 12</u> That upon the effective date of this Resolution, Resolution No. 2019-6-1 is hereby rescinded in its entirety.

* * *

ADOPTED this 15th day of July 2020

Kati Parker

President of the Inland Empire Utilities Agency* and of the Board of Directors thereof

ATTEST:

Steven J. Elie Secretary/ Treasurer of the Inland Empire Utilities Agency* and of the Board of Directors thereof

^{*}A Municipal Water District

| Resolution No. 2020-7-1 Regional Rates Page 5 of 5 |
|--|
| STATE OF CALIFORNIA) |
|)SS COUNTY OF SAN BERNARDINO) |
| I, Kati Parker, Secretary/Treasurer of the Inland Empire Utilities Agency*, |
| DO HEREBY CERTIFY that the foregoing Resolution being No. 2020-7-1 as adopted at |
| a regular Board meeting on July 15, 2020, of said Agency* by the following vote: |
| |
| AYES: |
| NOES: |
| ABSTAIN: |
| ABSENT: |
| |
| |
| Kati Parker Secretary/Treasurer |
| (SEAL) |
| * A Municipal Water District |

RESOLUTION NO. 2020-7-2

- RESOLUTION OF THE BOARD OF DIRECTORS OF THE INLAND UTILITIES AGENCY*, SAN BERNARDINO COUNTY, CALIFORNIA, ESTABLISHING CAPACITY CHARGES, VOLUMETRIC CHARGES, STRENGTH CHARGES, CAPITAL **IMPROVEMENT** PROJECT (CIP) CHARGES, IEUA ADMINISTRATIVE CHARGES, APPLICATION AND WASTEWATER DISCHARGE PERMIT APPLICATION FEES FOR THE ETIWANDA WASTEWATER LINE (EWL) FOR FISCAL YEAR (FY) 2020/21.
- **WHEREAS**, Etiwanda Wastewater Line Disposal Agreement (Agreement) was entered between County Sanitation Districts of Los Angeles County (CSDLAC) and Inland Empire Utilities Agency (Agency);
- **WHEREAS**, it is necessary to establish a rate structure for the collection of costs associated for the sewerage service under this Agreement;
- **WHEREAS**, it is necessary to allocate industries with Etiwanda Wastewater Line Capacity Unit (EWLCU), in order to collect such charges;
- **WHEREAS**, one EWLCU for the EWL is defined as an equalized discharge not to exceed a flow rate of 15 gallons per minute;
- **WHEREAS**, it is necessary to establish application fees for processing applications for Capacity Right Agreements and Wastewater Discharge Permits for the use of the Agency's EWL;
- **WHEREAS**, under Section 13550, et seq., of the California Water Code, a Public Agency may require industries to use recycled water for certain purposes, where it is available and at reasonable cost;
- **WHEREAS**, the Board of Directors of the Agency, pursuant to Ordinance No. 99, may establish said fees and charges by Resolution;
- **NOW, THEREFORE**, the Board of Directors hereby RESOLVES, DETERMINES, AND ORDERS the following to be effective July 1, 2020, and remain in effect until rescinded by a new resolution:

Section 1 That the acquisition of capacity rights shall be as follows:

(A) CAPACITY RIGHT ACQUISITION RATE

That the purchase rate for the right to discharge one (1) EWLCU for the EWL shall be \$215,000.00 per an equalized flow rate not to exceed 15 gallons per minute. This charge shall be paid in full upon the execution of the Capacity Right Agreement.

Section 2 That the monthly charges for discharge to the EWL are as follows:

(A) CAPACITY CHARGES

For discharge to the EWL, which reaches the jurisdiction of the CSDLAC, the monthly Capacity Charge is \$80.00 per month per each EWLCU.

(B) CAPITAL IMPROVEMENTS PROGRAM CHARGES:

The monthly Capital Improvements Program (CIP) charge for EWL is \$90.00 per month per each EWLCU.

(C) VOLUMETRIC CHARGES

The Volumetric Charge for EWL is \$760.00 per Million Gallons. The minimum Volumetric Charge for discharge of 100,000 gallons or less per each EWLCU per month is \$76.00 per month per each EWLCU.

(D) STRENGTH CHARGES

That Strength Charges are for excessive Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) and are applicable to all discharges to the EWL. The rates are as follows:

| PARAMETER | <u>RATE</u> |
|------------------|-----------------------|
| COD | \$135.00 per 1,000 pc |

COD \$135.00 per 1,000 pounds (dry weight)
TSS \$380.00 per 1,000 pounds (dry weight)

Strength charges for the EWL discharges are calculated from the average of all the samples collected during the calendar month and invoiced on a quarterly basis. If there is no sample data for a given month, strength charges for that month shall be determined by using the average value of all available data from the previous 12 months.

(E) AGENCY CIP AND O&M CHARGES

Agency CIP and O&M Charges of 50% shall be added to the charges of Section 2(A), 2(C), and 2(D).

(F) RECYCLED WATER USAGE CREDIT

This program is for recycled water (RW) Users and shall end when funding is exhausted or not later than June 30, 2024, whichever comes first. New Users who qualify for this program shall be given the recycled water credit in effect at the time of connection to the recycled water system.

Recycled Water Users, including contracting agencies, shall be given a monetary credit based on the actual amount of RW used. The RW credit shall start at 50% of the IEUA's FY 2014/15 recycled water direct sale rate and shall decline at 5% intervals per year through FY 2023/2024.

For Fiscal Year 2020/21, the Recycled Water Usage Credit is \$178.01 per million gallons of recycled water used.

Section 3 OTHER CHARGES

IEUA will pass on any other charges from CSDLAC invoiced to the Agency to dischargers to the EWL, such as, but not limited to, flow and strength imbalances charges, permit fees, inspection fees, analytical fees, etc.

<u>Section 4</u> That Application fees for an EWL Capacity Right Agreement shall be: \$250.00

<u>Section 5</u> That Initial Wastewater Discharge Permit Application, Ownership Change with Process Changes, and Permit Renewal fees for wastewater generators who discharge directly through pipeline connection to the EWL sewer system shall be:

Initial Wastewater Discharge Permit Application Fees:

(Ownership Change with Process Changes included)

| Categorical Industrial User | \$4,375.00 |
|--|------------|
| with Combined Waste Stream Formula, add | \$1,063.00 |
| with Production Based Standards, add | \$563.00 |
| with Multiple Categories, add | \$2,125.00 |
| Non-Categorical, Significant Industrial User | \$3,188.00 |
| Non-Categorical, Non-Significant Industrial User | \$2,625.00 |

Permit Renewal Fees:

| Categorical Industrial User | \$3,250.00 |
|--|------------|
| with Combined Waste Stream Formula, add | \$563.00 |
| with Production Based Standards, add | \$313.00 |
| with Multiple Categories, add | \$1,063.00 |
| Non-Categorical, Significant Industrial User | \$813.00 |
| Non-Categorical, Non-Significant Industrial User | \$563.00 |

Section 6 That Permit Revision or Facility Expansion fees shall \$1,625.00

Permit Revisions shall be required if the modification affects the quantity/quality of the wastewater discharge to deviate from the conditions in the current permit by more than 25%. Such additions or modifications include, but are not limited to, the following: Maintenance, Monitoring, Change of Discharge Limits, Addition of Control Equipment, Process Changes, etc.

Section 7 That for change of business name with no process changes shall be: \$250.00

That Permit Addendum fees shall be:

\$813.00

Permit Addendum shall be required if the addition or modification does not affect the existing wastewater quantity/quality by more than 25%. Such additions or modifications include, but are not limited to, the following: Maintenance, Monitoring, Change of Discharge Limits, Addition of Control Equipment, Ownership Change without Process Changes, etc.

<u>Section 8</u> Toxic Organic Management Plan (TOMP) Processing No Charge

Section 9 Miscellaneous processing fees that do not fall under any of the above sections shall be charged based on time and material of staff(s) evaluating such process using adopted labor rates for the current fiscal year.

<u>Section 10</u> That all provisions of the Etiwanda Wastewater Line Ordinance and any amendments thereto are hereby applicable and will remain in full force and effect.

<u>Section 11</u> That upon the effective date of this Resolution, the Resolution No. 2019-6-2 pertaining to the EWL is hereby rescinded in its entirety.

Resolution No. 2020-7-2 EWL Rates Page 5 of 6

ADOPTED this 15th day of July 2020

Kati Parker

President of the Inland Empire Utilities Agency* and of the Board of Directors thereof

ATTEST:

Steven J. Elie
Secretary/ Treasurer of the Inland Empire
Utilities Agency* and of the Board of
Directors thereof

*A Municipal Water District

| Resolution No. 2020-7-2 EWL Rates Page 6 of 6 |
|--|
| STATE OF CALIFORNIA) |
|) SS COUNTY OF SAN BERNARDINO) |
| I, Steven J. Elie, Secretary/Treasurer of the Inland Empire Utilities Agency*, |
| DO HEREBY CERTIFY that the foregoing Resolution being No. 2020-7-2 as adopted at |
| a regular Board meeting on July 15, 2020, of said Agency* by the following vote: |
| |
| AYES: |
| NOES: |
| ABSTAIN: |
| ABSENT: |
| |
| Steven J. Elie Secretary/Treasurer |
| (SEAL) |
| |
| |
| * A Municipal Water District |

RESOLUTION NO. 2020-7-3

- RESOLUTION OF THE BOARD OF DIRECTORS OF THE INLAND EMPIRE UTILITIES AGENCY*, SAN BERNARDINO COUNTY, CALIFORNIA, ESTABLISHING CAPACITY CHARGES, VOLUMETRIC CHARGES, STRENGTH CHARGES, AGENCY PROGRAM CHARGES, AND APPLICATION FEES FOR THE NON-RECLAIMABLE WASTEWATER SYSTEM (NRWS) FOR FISCAL YEAR (FY) 2020/21
- **WHEREAS**, NRWS Wastewater Disposal Agreement No. 4830 (Agreement) has been adopted between County Sanitation Districts of Los Angeles County (CSDLAC) and Inland Empire Utilities Agency (Agency);
- **WHEREAS**, it is necessary to establish a rate structure for the collection of costs associated for the sewerage service under this Agreement;
- **WHEREAS**, it is necessary to allocate User with Non Reclaimable Wastewater System Capacity Unit (NRWSCU), in order to collect such charges;
- **WHEREAS**, it is necessary to allocate individual Users their fractional contribution of the Solids Discrepancy at East End (SD_{EE}) monitoring facility determined by the *Fractional Solids Discrepancy* (FSD_i) formula;
- WHEREAS, it is necessary to allocate individual Users their fractional contribution of the Volumetric, Chemical Oxygen Demand (COD), and NRWSCU discrepancies at East End monitoring facility as determined by the preceding fiscal year's monitoring data;
- **WHEREAS**, it is necessary to establish application fees for processing applications for NRWSCU Allocations and Wastewater Discharge Permits for the use of the Inland Empire Utilities Agency (Agency)'s NRWS;
- **WHEREAS**, under Section 13550, et seq., of the California Water Code, a Public Agency may require industries to use recycled water for certain purposes, where it is available and at reasonable cost;
- **WHEREAS**, the Board of Directors of the Agency, pursuant to Ordinance No. 99, may establish said fees and charges by Resolution;
- **NOW, THEREFORE**, the Board of Directors hereby RESOLVES, DETERMINES, AND ORDERS the following to be effective July 1, 2020, and remain in effect until rescinded by a new resolution:

Section 1 That the acquisition of wastewater discharge right shall be as follows:

(A) NRWSCU ACQUISITION RATES

1. A NRWSCU for the NRWS is determined by the following formula:

$$NRWSCU = \left(0.6513 \ x \ \frac{Flow_{gpd}}{260}\right) + \left(0.1325 \ x \ \frac{COD_{ppd}}{1.22}\right) + \left(0.2162 \ x \ \frac{TSS_{ppd}}{0.59}\right)$$

Where:

gpd = gallons per day
ppd = pounds per day

- 2. The minimum number of NRWSCU shall be 25 NRWSCU.
- 3. The **purchase rate** for the right to discharge one (1) NRWSCU shall be as established by CSDLAC or \$4,172.00 per NRWSCU.
- 4. The optional **annual lease rate** for the right to discharge one (1) NRWSCU shall be 5% per year of the purchase rate, i.e. \$208.60 per NRWSCU per each year.

The above charges shall be paid in full upon the execution of the NRWSCU purchase or lease.

Section 2 That the monthly charges for discharge to the NRWS are:

(A) VOLUMETRIC CHARGES

For discharge to the NRWS, the monthly volumetric charge is \$940.00 per million gallons of discharge.

(B) PEAK FLOW CHARGES

For discharge to the NRWS, the monthly Peak Flow (PF) Charge shall be \$357.00 per million gallons of volumetric discharge.

(C) STRENGTH CHARGES

That Strength Charges are for excessive Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) and are applicable to all discharges to the NRWS. The rates are as follows:

<u>PARAMETER</u> <u>RATE</u>
COD \$166.00 per 1,000 pounds (dry weight)

TSS \$470.00 per 1,000 pounds (dry weight)

Strength charges for the NRWS discharges are calculated from the average of all the samples collected during the calendar month and invoiced on a quarterly basis. If there is no sample data for a given month, strength charges for that month shall be determined by using the average value of all available data from the previous 12 months.

(D) AGENCY O&M Charge

The Agency's O&M charge shall be \$20.25 per NRWSCU per month.

(E) AGENCY CIP CHARGE

The Agency's capital improvement program charge shall be \$8.00 per NRWSCU per month.

(F) RECYCLED WATER USAGE CREDIT

This program is for recycled water (RW) Users and shall end when funding is exhausted or not later than June 30, 2024, whichever comes first. New Users who qualify for this program shall be given the recycled water credit in effect at the time of connection to the recycled water system.

Recycled Water Users, including contracting agencies, shall be given a monetary credit based on the actual amount of RW used. The RW credit shall start at 50% of the IEUA's FY 2014/15 recycled water direct sale rate and shall decline at 5% intervals per year through FY 2023/2024.

For Fiscal Year 2020/21, the Recycled Water Usage Credit is \$178.01 per million gallons of recycled water used.

Section 3 IMBALANCE CHARGES

(A) SOLIDS DISCREPANCY CHARGES for NRWS

Solids Discrepancy Charge for an industry (SDC_i) shall be calculated on a monthly basis and invoiced on a quarterly basis. The charge shall be calculated by multiplying the individual industry's *Fractional Solids Discrepancy* (FSD_i) by the Total Solids Discrepancy at East End monitoring facility (TSD_{EE}) and by TSS rate:

$$SDC_i = (FSD_i) \ x \ (TSD_{EE}) \ x \ (TSS \ rate)$$

Individual industry's *FSD_i* for the NRWS is determined by the *FSD_i* formula to allocate the individual industry's solids contribution to the total solids discrepancy, based on their contribution to the overall loading of Alkalinity,

Biological Oxygen Demand (BOD), Dissolved Calcium, and Flow.

$$FSD_i = 0.090 \ x \left[\frac{Alk_i}{Alk_T} \right] + 0.589 \ x \left[\frac{BOD_i}{BOD_T} \right] + 0.060 \ x \left[\frac{Ca_i}{Ca_T} \right] + 0.261 \ x \left[\frac{Flow_i}{Flow_T} \right]$$

Where:

 FSD_i = Fractional Solids Discrepancy for individual discharger (i) Alk_i = Individual dissolved alkalinity loading to the NRWS for discharger (i) Alk_T = Combined dissolved alkalinity loading from all dischargers to the NRWS BOD_i = Individual BOD_5 loading to the NRWS for discharger (i) BOD_T = Combined BOD_5 loading from all dischargers to the NRWS Ca_i = Individual dissolved calcium loading to the NRWS for discharger (i) Ca_T = Combine dissolved calcium loading from all dischargers to the NRWS $Flow_i$ = Individual flow contribution to the NRWS from discharger (i) $Flow_T$ = Combined flow from all dischargers to the NRWS

(B) OTHER IMBALANCE CHARGES

IEUA will pass to NRWS dischargers any other charges from CSDLAC invoiced to the Agency as a result of imbalance in the NRWS, including volumetric, COD, and NRWSCU imbalance charges. The charges shall be calculated on pro rata share for each component and invoiced on a quarterly basis.

Section 4 OTHER CHARGES

IEUA will pass on any other charges from CSDLAC invoiced to the Agency to dischargers to the NRWS, such as, but not limited to, permit fees, inspection fees, analytical fees, etc.

<u>Section 5</u> That Application fee for a NRWS Capacity Unit \$250.00 Purchase or Annual Lease shall be:

<u>Section 6</u> That Initial Wastewater Discharge Permit Application, Ownership Change with Process Changes, and Permit Renewal fees for wastewater generators who discharge directly through pipeline connection to the NRWS sewer system shall be:

Initial Wastewater Discharge Permit Application Fees:

(Ownership Change with Process Changes included)

| Categorical Industrial User | \$4,375.00 |
|--|-------------------|
| with Combined Waste Stream Formula, add | \$1,063.00 |
| with Production Based Standards, add | \$563.00 |
| with Multiple Categories, add | \$2,125.00 |
| Non-Categorical, Significant Industrial User | \$3.188.00 |

| Non-Categorical, Non-Significant Industrial User | \$2,625.00 |
|--|--|
| Permit Renewal Fees: | |
| Categorical Industrial User with Combined Waste Stream Formula, add with Production Based Standards, add with Multiple Categories, add Non-Categorical, Significant Industrial User Non-Categorical, Non-Significant Industrial User | \$3,250.00 \$563.00 \$313.00 \$1,063.00 \$813.00 \$563.00 |
| Section 7 That Permit Revision or Facility Expansion fees shall be: | \$1,625.00 |
| Permit Revisions shall be required if the modification affects the quantity/quality of the wastewater discharge to deviate from the conditions in the current permit by more than 25%. Such additions or modifications include, but are not limited to, the following: Maintenance, Monitoring, Change of Discharge Limits, Addition of Control Equipment, Process Changes, etc. | |
| <u>Section 8</u> That for change of business name with no process changes shall be: | \$250.00 |
| That Permit Addendum fees shall be: | \$813.00 |
| Permit Addendum shall be required if the addition or modification does not affect the existing wastewater quantity/quality by more than | |

Permit Addendum shall be required if the addition or modification does not affect the existing wastewater quantity/quality by more than 25%. Such additions or modifications include, but are not limited to, the following: Maintenance, Monitoring, Change of Discharge Limits, Addition of Control Equipment, Ownership Change without Process Changes, etc.

<u>Section 9</u> Toxic Organic Management Plan (TOMP) Processing No Charge

<u>Section 10</u> Miscellaneous processing fees that do not fall under any of the above sections shall be charged based on time and material of staff(s) evaluating such process using adopted labor rates for the current fiscal year.

<u>Section 11</u> That all provisions of the Non-Reclaimable Wastewater Ordinance and any amendments thereto are hereby applicable and will remain in full force and effect.

Section 12 That upon the effective date of this Resolution, the Resolution No. 2018-6-3 pertaining to the NRWS is hereby rescinded in its entirety.

Resolution No. 2020-7-3 NRWS Rates Page 6 of 7

ADOPTED this 15th day of July 2020.

Kati Parker

President of the Inland Empire Utilities Agency* and of the Board of Directors thereof

ATTEST:

Steven J. Elie Secretary/ Treasurer of the Inland Empire Utilities Agency* and of the Board of Directors thereof

*A Municipal Water District

| Resolution No. 2020-7-3 NRWS Rates Page 7 of 7 | | | |
|--|--|--|--|
| STATE OF CALIFORNIA |) | | |
| COUNTY OF SAN BERNARDINO |) SS) | | |
| I, Steven J. Elie, Secretary | /Treasurer of the Inland Empire Utilities Agency*, | | |
| DO HEREBY CERTIFY that the foregoi | ng Resolution being No. 2020-7-3 as adopted at | | |
| a regular Board meeting on July 15, 202 | 20, of said Agency* by the following vote: | | |
| | | | |
| AYES: | | | |
| NOES: | | | |
| ABSTAIN: | | | |
| ABSENT: | | | |
| | | | |
| | Steven J. Elie Secretary/Treasurer | | |
| | | | |
| (SEAL) | | | |
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| | | | |
| * A Municipal Water District | | | |

RESOLUTION NO. 2020-7-4

RESOLUTION OF THE BOARD OF DIRECTORS OF THE INLAND EMPIRE UTILITIES AGENCY*, SAN BERNARDINO COUNTY, CALIFORNIA, ESTABLISHING INITIAL AND MONTHLY CAPACITY CHARGES, **VOLUMETRIC** CHARGES, **EXCESS** STRENGTH CHARGES, CAPITAL IMPROVEMENT PROJECT (CIP) CHARGES. **IEUA** ADMINISTRATIVE CHARGES. APPLICATION WASTEWATER DISCHARGE PERMIT APPLICATION FEES FOR THE INLAND EMPIRE BRINE LINE (BRINE LINE) FOR FISCAL YEAR (FY) 2020/21.

WHEREAS, it is necessary to establish initial and monthly capacity charges, volumetric flow charges, CIP charges, trucked wastewater delivery charges and excessive strength charges;

WHEREAS, it is necessary to establish application fees for processing applications for Capacity Right Agreements and Wastewater Discharge Permits for the use of the Inland Empire Utilities Agency (Agency)'s Brine Line;

WHEREAS, one Agency Capacity Unit (CU) is defined as an equalized discharge at the flow rate of 15 gallons per minute (GPM);

WHEREAS, under Section 13550, et seq., of the California Water Code, a Public Agency may require industries to use recycled water for certain purposes, where it is available and at reasonable cost;

WHEREAS, the Board of Directors of the Agency, pursuant to Ordinance No. 106, may establish said fees and charges by Resolution;

NOW, THEREFORE, the Board of Directors hereby RESOLVES, DETERMINES, AND ORDERS the following to be effective July 1, 2020, and remain in effect until rescinded by a new resolution:

Section 1 That the Initial Capacity Charge for the purchase of Agency Capacity Rights shall be set at \$215,000.00 per CU.

Section 2 That the monthly charges for discharge to the Brine Line are as follows:

(A) CAPACITY CHARGES:

For discharge to the Brine Line, which reaches jurisdiction of the Santa Ana Watershed Project Authority (SAWPA), the monthly Capacity Charge is \$418.67 per CU.

(B) CAPITAL IMPROVEMENTS PROGRAM CHARGES:

The monthly Capital Improvements Program (CIP) charge for Brine Line is \$90.00 per CU per month.

(C) VOLUMETRIC CHARGES

For discharge to the Brine Line, the monthly Volumetric Charge is \$979.00 per Million Gallons of discharge. The minimum Volumetric Charge for discharge of 100,000 gallons or less per CU per month is \$97.90 per CU per month.

(D) STRENGTH CHARGES

That Strength Charges are applicable to all discharges to the Brine Line, via pipeline or hauled by truck, for excessive Biochemical Oxygen Demand (BOD), and Total Suspended Solids (TSS). The rates are as follows:

| QUANTITY | RATE |
|----------|--|
| BOD | \$316.00 per 1,000 pounds (dry weight) |
| TSS | \$442.00 per 1,000 pounds (dry weight) |

Strength charges for the Brine Line discharges are calculated from the average of all the samples collected during the calendar month and invoiced on a monthly basis. If there is no sample data for a given month, strength charges for that month shall be determined by using the average value of all available data from the previous 12 months.

(E) AGENCY ADMINISTRATIVE CHARGES

Agency Administrative Charges of 50% shall be added to the charges of Section 2(A), 2(C), and 2(D).

(F) RECYCLED WATER USAGE CREDIT FOR BRINE LINE

This program is for recycled water (RW) Users and shall end when funding is exhausted or not later than June 30, 2024, whichever comes first. New Users who qualify for this program shall be given the recycled water credit in effect at the time of connection to the recycled water system.

Recycled Water Users, including contracting agencies, shall be given a monetary credit based on the actual amount of RW used. The RW credit shall start at 50% of the IEUA's FY 2014/15 recycled water direct sale rate, and shall decline at 5% intervals per year through FY 2023/2024.

For FY 2020/21, the Recycled Water Usage Credit is \$178.01 per million

gallons of recycled water used.

(G) Other Charges

IEUA will pass on any other charges from SAWPA invoiced to the Agency to dischargers to the Brine Line, such as, but not limited to, flow and strength imbalances charges, permit fees, inspection fees, analytical fees, etc.

Section 3 For trucked discharges to the Brine Line, the wastewater discharge rate shall be based on the applicable Tiered Schedule as established by the higher concentration value for BOD or TSS. The Brine Line Tiered Rate Schedule for Trucks is shown in Table 1.

Table 1 - Brine Line Tiered Rate Schedule for Trucks

| | | | Incremental Charge | Concentrations over 100 mg/L | |
|--------------------|-----------------------------------|--|---|------------------------------|-------------------------|
| Tiered Schedule | BOD / TSS Concentration | Volumetric Charge Up to 5,000 gallons | above 5,000 gallons, \$ per one (1) gallon | BOD Charge \$ per lb | TSS Charge \$ per lb |
| Brine | BOD and TSS Less than 100 mg/L | \$300.92 | \$0.015 | | |
| Non-Brine | BOD or TSS 100 mg/L and higher | \$300.92 | \$0.015 | \$0.750 | \$0.716 |

Section 4 Shall be: That Application fees for a Capacity Right Agreement \$250.00

<u>Section 5</u> That Initial Wastewater Discharge Permit Application and Permit Renewal fees for wastewater generators who discharge directly through pipeline connection to the NRWS sewer system shall be:

Initial Wastewater Discharge Permit Application Fees

(Ownership Change with Process Changes included):

| Categorical Industrial User | \$4,375.00 |
|--|------------|
| with Combined Waste Stream Formula, add | \$1,063.00 |
| with Production Based Standards, add | \$563.00 |
| with Multiple Categories, add | \$2,125.00 |
| Non-Categorical, Significant Industrial User | \$3,188.00 |
| Non-Categorical, Non-Significant Industrial User | \$2,625.00 |

Permit Renewal Fees:

Categorical Industrial User

\$3,250.00

| with Combined Waste Stream Formula, add | \$563.00 |
|--|------------|
| with Production Based Standards, add | \$313.00 |
| with Multiple Categories, add | \$1,063.00 |
| Non-Categorical, Significant Industrial User | \$813.00 |
| Non-Categorical, Non-Significant Industrial User | \$563.00 |

Section 6 That Initial Wastewater Discharge Permit Application and Permit Renewal fees for wastewater generators whose wastewater is hauled away, i.e., by a wastewater trucking company, and discharged into the NRWS sewer system shall be:

Initial Wastewater Discharge Permit Application Fees:

(Ownership Change with Process Changes included)

| Categorical Industrial User | \$2,750.00 |
|--|------------|
| with Combined Waste Stream Formula, add | \$1,063.00 |
| with Production Based Standards, add | \$563.00 |
| with Multiple Categories, add | \$2,125.00 |
| Non-Categorical, Significant Industrial User | \$1,625.00 |
| Non-Categorical, Non-Significant Industrial User | \$1,063.00 |

Permit Renewal Fees:

| Categorical Industrial User | \$2,250.00 |
|--|------------|
| with Combined Waste Stream Formula, add | \$563.00 |
| with Production Based Standards, add | \$313.00 |
| with Multiple Categories, add | \$1,063.00 |
| Non-Categorical, Significant Industrial User | \$813.00 |
| Non-Categorical, Non-Significant Industrial User | \$563.00 |

<u>Section 7</u> That initial Wastewater Hauler Permit application and Permit Renewal fees for the North NRWS shall be:

| Initial Permit Application for Wastewater Hauler | \$250.00 |
|--|----------|
| Permit Renewal for Wastewater Hauler | \$125.00 |

South NRWS Wastewater Hauler Permit Application and Permit Renewal are processed and administered by Santa Ana Watershed Project Authority (SAWPA).

Resolution No. 2020-7-4 IEBL Rates Page 5 of 7

Section 8 That Permit Revision or Facility Expansion fees shall be: \$1,625.00

Permit Revisions shall be required if the modification affects the quantity/quality of the wastewater discharge to deviate from the conditions in the current permit by more than 25%. Such additions or modifications include, but are not limited to, the following: Maintenance, Monitoring, Change of Discharge Limits, Addition of Control Equipment, etc.

Section 9 That for change of business name with no process changes shall be: \$250.00

That Permit Addendum fees shall be:

\$813.00

Permit Addendum shall be required if the addition or modification does not affect the existing wastewater quantity/quality by more than 25%. Such additions or modifications include, but are not limited to, the following: Maintenance, Monitoring, Change of Discharge Limits, Addition of Control Equipment, Ownership Change without Process Changes, etc.

Section 10 Toxic Organic Management Plan (TOMP) Processing No Charge

<u>Section 11</u> Miscellaneous processing fees that do not fall under any of the above sections shall be charged based on time and material of staff(s) evaluating such process using adopted labor rates for the current fiscal year.

Section 12 That all provisions of the Brine Line Ordinance and any amendments thereto are hereby applicable and will remain in full force and effect.

<u>Section 13</u> That upon the effective date of this Resolution, the Resolution No. 2019-6-4 pertaining to the Inland Empire Brine Line (also known as South NRWS) is hereby rescinded in its entirety.

Resolution No. 2020-7-4 IEBL Rates Page 6 of 7

ADOPTED this 15^{th} day of July 2020.

Kati Parker

President of the Inland Empire Utilities Agency* and of the Board of Directors thereof

ATTEST:

Steven J. Elie Secretary/ Treasurer of the Inland Empire Utilities Agency* and of the Board of Directors thereof

*A Municipal Water District

| Resolution No. 2020-7-4 IEBL Rates Page 7 of 7 |
|--|
| STATE OF CALIFORNIA) |
| COUNTY OF SAN BERNARDINO) SS |
| I, Steven J. Elie, Secretary/Treasurer of the Inland Empire Utilities Agency*, |
| DO HEREBY CERTIFY that the foregoing Resolution being No. 2020-7-4 as adopted at |
| a regular Board meeting on July 15, 2020, of said Agency* by the following vote: |
| |
| AYES: |
| NOES: |
| ABSTAIN: |
| ABSENT: |
| |
| Steven J. Elie Secretary/Treasurer |
| (SEAL) |
| * A Municipal Water District |

RESOLUTION OF THE BOARD OF DIRECTORS OF THE INLAND EMPIRE UTILITIES AGENCY*, SAN BERNARDINO COUNTY, CALIFORNIA, ESTABLISHING CHARGES FOR LABORATORY ANALYSES FOR FISCAL YEAR 2020/21

WHEREAS, The Agency occasionally enters into agreements with other local governmental agencies to perform laboratory analyses; and

WHEREAS, the most efficient and practical method of charging for this work is through the establishment of a price for each analysis.

NOW, THEREFORE, the Board of Directors hereby RESOLVES, DETERMINES AND ORDERS, that, effective July 1, 2020, the single item prices for laboratory analyses are as shown on Exhibit 1 attached hereto, and remain in effect until rescinded by a new resolution:

Upon the effective date of this Resolution, Resolution No. 2019-6-5 is hereby rescinded in its entirety.

Resolution No. 2020-7-5 Laboratory Fees Page 2 of 4

ADOPTED this 15th day of July 2020.

Kati Parker

President of the Inland Empire Utilities Agency* and of the Board of Directors thereof

ATTEST:

Steven J. Elie Secretary/ Treasurer of the Inland Empire Utilities Agency* and of the Board of Directors thereof

^{*}a Municipal Water District

| Resolution No. 2020-7-5 Laboratory Fees Page 3 of 4 |
|---|
| STATE OF CALIFORNIA) |
| COUNTY OF SAN BERNARDINO) |
| I, Steven J. Elie, Secretary/Treasurer of the Inland Empire Utilities Agency* |
| DO HEREBY CERTIFY that the foregoing Resolution being No. 2020-7-5, was adopted a |
| a regular meeting on July 15, 2020, of said Agency* by the following vote: |
| |
| AYES: |
| NOES: |
| ABSTAIN: |
| ABSENT: |
| |
| |
| Steven J. Elie Secretary/Treasurer |
| |
| (SEAL) |
| |
| |
| * A Municipal Water District |

INLAND EMPIRE UTILITIES AGENCY LABORATORY PRICES - FY 2020/21

| Inorganic Chemistry | | |
|---|------------------|-----------------|
| Test | Method | Price |
| Alkalinity, Total | SM 2320B | \$15.50 |
| Ammonia as Nitrogen | EPA 350.1 | \$15.50 |
| Anion Sum | SM 1050 | \$2.60 |
| BOD, Soluble | SM 5210 | \$45.30 |
| BOD, Total | SM 5210 | \$40.20 |
| Bromide | EPA 300.0 | \$11.30 |
| Cation Sum | SM 1050 | \$2.60 |
| Chlorate | EPA 300.0 | \$48.90 |
| Chloride | EPA 300.0 | \$9.80 |
| Chlorite | EPA 300.0 | \$48.90 |
| COD | SM 5220D | \$34.50 |
| Color | SM 2120B | \$10.30 |
| Conductivity | SM 2510 | \$9.80 |
| Corrosivity | SM 2330B | \$43.80 |
| If Alkalinity, Ca, EC, or pH | are requested on | |
| Corrosivity cost is red | uced by their | |
| Cyanide, Available | EPA OIA-1677 | \$51.50 |
| Cyanide, Free | ASTM D7237 | \$28.80 |
| Cyanide, Total | ASTM D7284 | \$31.90 |
| Dissolved Organic Carbon | SM 5310B | \$41.20 |
| Dissolved Organic Carbon | SM 5310C | \$36.10 |
| Dissolved Oxygen | EPA 360.1 | \$12.90 |
| Fluoride | EPA 300.0 | \$9.80 |
| Fluoride | SM 4500-F C | \$17.50 |
| Hardness, Total (Calculation If Ca and Mg is requested | , calculation is | \$23.20 |
| reduced by their respe Hardness, Total | SM 2340C | \$19.10 |
| Mercury | EPA 245.2 | \$41.20 |
| Metals Digestion (liquid) | | \$17.50 |
| Metals Digestion (solid) | | \$46.40 |
| Metals by ICP | EPA 200.7 | \$10.30 |
| Metals by ICP/MS | EPA 200.8 | \$10.30 |
| Nitrate as Nitrogen | EPA 300.0 | \$9.80 |
| Nitrite as Nitrogen | EPA 300.0 | \$9.80 |
| Nitrogen, Organic | Various | \$67.00 |
| Oil & Grease, Polar (FOG) | EPA1664B | \$77.30 |
| Oil & Grease, Non-polar | EPA1664B | \$41.20 |
| Oil & Grease, Total | EPA1664B | \$36.10 |
| рН | SM 4500-H+ B | \$6 . 20 |
| Phosphorus, Ortho | EPA 300.0 | \$9.80 |
| Phosphorus, Total | EPA 200.7 | \$10.30 |
| i nospiiorus, rotui | 12.7.200.7 | ا الربادات |

| Inorganic Chemistry | | |
|---------------------------|-------------|---------|
| Test | Method | Price |
| Silica | EPA 200.7 | \$10.30 |
| Sulfate | EPA 300.0 | \$9.80 |
| Sulfide, Dissolved | SM 4500-S D | \$20.60 |
| Sulfide, Total | SM 4500-S D | \$16.50 |
| Surfactants (MBAS) | SM 5540C | \$51.50 |
| TDS | SM 2540C | \$15.50 |
| TDS, Fixed/Volatile | SM 2540E | \$23.20 |
| TKN | EPA 351.2 | \$41.20 |
| TOC | SM 5310B | \$36.10 |
| TOC | SM 5310C | \$30.90 |
| Total Solids | SM 2540B | \$11.80 |
| TSS | SM 2540D | \$15.50 |
| Turbidity | EPA 180.1 | \$9.30 |
| Uranium pCi/L | EPA 200.8 | \$28.80 |
| Volatile Solids | SM 2540E | \$17.00 |
| Volatile Suspended Solids | SM 2540E | \$23.20 |

| Bioassay/Microbiology | | |
|--------------------------------|-----------|------------|
| Test | Method | Price |
| Bioassay, C.Dubia, Chronic | EPA 1002 | \$1,236.00 |
| Coliform, Colilert P/A | SM 9223 B | \$10.30 |
| Coliform, Colilert Total Enume | SM 9223 B | \$20.60 |
| Coliform, Fecal | SM 9221E | \$25.80 |
| Coliform, Total (15 Tube) | SM 9221B | \$25.80 |
| Heterotrophic Plate Count | SM 9215B | \$20.60 |

| Organic Chemistry | | |
|--------------------------------|---------------|----------|
| Test | Method | Price |
| 1,4-Dioxane | EPA 624 | \$77.30 |
| Acrolein & Acrylonitrile | EPA 624 | \$77.30 |
| MTBE | EPA 524.2 | \$103.00 |
| Pesticides | EPA 608 | \$257.50 |
| Pesticides w/ PCBs | EPA 608 | \$334.80 |
| PCBs | EPA 608 | \$257.50 |
| Semi-Volatiles (Short list DW) | EPA 525 | \$334.80 |
| Semi-Volatiles (Acid Extractab | EPA 625 | \$231.80 |
| Semi-Volatiles (Base/Neutrals) | EPA 625 | \$231.80 |
| Semi-Volatiles (BNA) | EPA 625 | \$309.00 |
| Tert-Butyl Alcohol (TBA) | EPA 524.2 MOD | \$154.50 |
| Thiobencarb | EPA 525 | \$309.00 |
| Volatiles, DW | EPA 524.2 | \$154.50 |
| Volatiles, WW | EPA 624 | \$195.70 |

RESOLUTION OF THE BOARD OF DIRECTORS OF THE INLAND EMPIRE UTILITIES AGENCY*, SAN BERNARDINO COUNTY, CALIFORNIA, ESTABLISHING EXTRA-TERRITORIAL SEWER SERVICE CHARGE FOR SYSTEM USERS OUTSIDE THE AGENCY'S BOUNDARIES FOR FISCAL YEAR (FY) 2020/21

WHEREAS, it is necessary to establish an extra-territorial monthly sewer service charge for system user whose property served is located outside the boundaries of Improvement District "C" of the Inland Empire Utilities Agency (the Agency); and

WHEREAS, the charge shall be "A" dollars per equivalent dwelling unit (EDU) per month. "A" shall be determined annually by the Agency before July 1 and will be set at the amount of certain sewer taxes per EDU being received from the taxable area within Improvement District "C"; and

WHEREAS, these taxes are to be the Improvement District "C" portion of taxes plus the portion of the Agency's General Taxes applied each year to the Regional Wastewater Systems and the General Administrative expenditures for the Regional Wastewater Systems; and

WHEREAS, modification to this resolution may be included in future rate resolutions.

NOW, THEREFORE, the Board of Directors hereby RESOLVES, DETERMINES, AND ORDERS the following to be effective July 1, 2020, and remain in effect until rescinded by a new resolution:

- **Section 1.** That the monthly sewer service rate be determined based on the Agencywide assessed valuation for FY 2019/20 as reported by the San Bernardino County Auditors Property Tax Division and the estimated number of billed EDU's listed in the Agency's FY 2020/21 Regional Wastewater Operations and Maintenance fund budget, as shown in Exhibit 1; and
- **Section 2.** That the extra-territorial monthly sewer service charge should be set at a rate of \$17.46 per month per Equivalent Dwelling Unit (EDU) in addition to the FY 2020/21 adopted monthly EDU rate of \$20.00.
- **Section 3.** That upon the effective date of this Resolution, Resolution No. 2019-6-6 is hereby rescinded in its entirety.

Resolution No. 2020-7-6 FY 2020/21 Extra Territorial Sewer Service Charge Page 2 of 4

ADOPTED this 15th day of July 2020.

Kati Parker

President of the Inland Empire Utilities Agency* and of the Board of Directors thereof

ATTEST:

Steven J. Elie Secretary/ Treasurer of the Inland Empire Utilities Agency* and of the Board of Directors thereof

^{*}A Municipal Water District

| Resolution No. 2020-7-6 FY 2020/21 Extra Territorial Sewer Service (Page 3 of 4 | Charge |
|--|--|
| STATE OF CALIFORNIA))SS | |
| COUNTY OF SAN BERNARDINO) | |
| I, Kati Parker, Secretary/Treasu | rer of the Inland Empire Utilities Agency*, DO |
| HEREBY CERTIFY that the foregoing Resolut | ion being No. 2020-7-6 was adopted at a Board |
| Meeting on July 15, 2020, of said Agency by the | ne following vote: |
| | |
| AYES: | |
| NOES: | |
| ABSTAIN: | |
| ABSENT: | |
| | |
| | |
| | Steven J. Elie Secretary/Treasurer |
| | |
| | |
| (SEAL) | |
| | |
| | |
| * A Municipal Water District | |

Resolution No. 2020-7-6 FY 2020/21 Extra Territorial Sewer Service Charge Page 4 of 4

AVERAGE VALUE OF AN EDU FOR FISCAL YEAR 2020/21 CITY OF FONTANA MONTHLY EXTRA-TERRITORIAL USER SURCHARGE

The information utilized includes the EDU projections identified in the Regional Wastewater Operations and Maintenance Fund budget and the San Bernardino County Auditors' report which lists the Agency's assessed valuation for FY 2019/20. Based on this information the estimated average value of an EDU within the Agency is as follows:

FY 2019/20 Agency Assessed Value - = \$ 118,586,687,220

FY 2019/20 Projected number of EDU's within Agency = 282,490 EDU per month

\$118,586,687,220 divided by 282,490 = \$ 419,791

Annual tax obligation is calculated by:

\$419,791 multiply by 0.000499 = **\$ 209.48 per year** (adjusted Agency tax rate)

= \$ 17.46 per month

RESOLUTION OF THE BOARD OF DIRECTORS OF THE INLAND EMPIRE UTILITIES AGENCY*, SAN BERNARDINO COUNTY, CALIFORNIA, ESTABLISHING IMPORTED WATER RATES.

WHEREAS, pursuant to Division II, Part II, Section 201 of Ordinance No. 104, the Board of Directors of Inland Empire Utilities Agency* (Agency) establishes, from time to time, rates for water sold or delivered by direct connections to Metropolitan Water District of Southern California (MWD) facilities;

WHEREAS, the Board of Directors of the Agency establishes rates for delivery of imported water supplies; and the rates are based on the approved and adopted biennial budget rates by the MWD Board on May 22, 2020; and

NOW, THEREFORE, the Board of Directors hereby RESOLVES, DETERMINES AND ORDERS the following to be effective July 1, 2020, and January 1, 2021, and to remain in effect until rescinded by a new resolution:

Section 1. That the rates of sales of imported water are direct pass-through charged by Metropolitan for each class of water. The rates, by class of water are as follows:

(a) FOR TIER 1 FULL SERVICE UNTREATED WATER – i.e., domestic and municipal purposes:

01/1/2020 – 12/31/2020 \$755.00 per acre foot 01/1/2021 – 12/31/2021 \$777.00 per acre foot 01/1/2022 – 12/31/2022 \$799.00 per acre foot

(b) FOR TIER 2 FULL SERVICE UNTREATED WATER – i.e., domestic and municipal purposes:

01/1/2020 – 12/31/2020 \$842.00 per acre foot 01/1/2021 – 12/31/2021 \$819.00 per acre foot 01/1/2022 – 12/31/2022 \$841.00 per acre foot

(c) FOR GROUND WATER STORAGE PROGRAM

REPLENISHMENT WATER UNTREATED – This rate is available contingent upon the requirements of Metropolitan's Administrative Code, and includes water delivered for groundwater replenishment and storage, by direct or in-lieu methods.

```
01/1/2020 – 12/31/2020 (NO RATE AVAILABLE)
01/1/2021 – 12/31/2021 (NO RATE AVAILABLE)
01/1/2022 – 12/31/2022 (NO RATE AVAILABLE)
```

(d) METROPOLITAN WATER SUPPLY ALLOCATION PLAN (WSAP) PENALTY RATES – Reduced imported water allocations caused by the adoption of a WSAP will reduce a member agencies Tier 1 allocation pursuant to Resolution 2016-9-1. Penalty rates will be applied in accordance to Metropolitan's WSAP to IEUA and its member agencies if IEUA exceeds its imported water allocation from MWD and is invoiced by MWD for WSAP penalty rates. Any such penalty rates shall be "passed through" to the appropriate agency that caused the imposition of a penalty rate by MWD.

Section 2. That IEUA will impose any Metropolitan rates and charges, applicable to each service connection, if invoiced by Metropolitan to IEUA during FY 2019/20.

Section 3. That the Metropolitan levied Capacity Charge (\$/cfs) shall be as follows:

```
01/1/2020 – 12/31/2020 $ 8,800 per cubic foot per second (cfs)
01/1/2021 – 12/31/2021 $ 10,700 per cubic foot per second (cfs)
01/1/2022 – 12/31/2022 $ 12,200 per cubic foot per second (cfs)
```

Section 4. That a minimum charge of \$1,000 per month will be collected from any active Metropolitan full service industrial connection beginning 7/1/2020 through 6/30/2021.

Section 5. In the event of any delinquent payments for bills related to imported water or other charges, the Agency will apply Division III, Part I, Section 107 of Ordinance No. 104

Section 6. That upon the effective date of this Resolution, Resolution No. 2019-6-7 is hereby rescinded in its entirety.

ADOPTED this 15th day of July 2020.

Kati Parker
President of the Inland Empire Utilities Agency*
and of the Board of Directors thereof

ATTEST:

Steven J. Elie Secretary/ Treasurer of the Inland Empire Utilities Agency* and of the Board of Directors thereof

*a Municipal Water District

| Page 4 of 4 |
|---|
| STATE OF CALIFORNIA))SS COUNTY OF SAN BERNARDINO) |
| I, Steven J. Elie, Secretary/Treasurer of the Inland Empire Utilities Agency*, DO |
| HEREBY CERTIFY that the foregoing Resolution being No. 2020-7-7, was adopted at a regular |
| meeting on July 15, 2020, of said Agency* by the following vote: |
| |
| AYES: |
| NOES: |
| ABSTAIN: |
| ABSENT: |
| |
| |
| Steven J. Elie Secretary/Treasurer |
| |
| (SEAL) |
| * A Municipal Water District |

Resolution No. 2020-7-7

RESOLUTION OF THE BOARD OF DIRECTORS OF THE INLAND EMPIRE UTILITIES AGENCY*, SAN BERNARDINO COUNTY, CALIFORNIA, ESTABLISHING EQUIPMENT RENTAL RATES FOR FISCAL YEAR 2020/2021.

WHEREAS, the Board of Directors of Inland Empire Utilities Agency* is required by Agency Ordinance No. 28, Section 3, to establish, from time to time, rates for rental of maintenance and construction equipment.

NOW, THEREFORE, the Board of Directors hereby RESOLVES, DETERMINES AND ORDERS, pursuant to Ordinance No. 28, that the rates for equipment rental are as shown in Exhibit 1 attached hereto and are effective July 1, 2020, and remain in effect until rescinded by a new resolution:

Upon the effective date of this Resolution, Resolution No. 2019-6-8 is hereby rescinded in its entirety.

Resolution No. 2020-7-8 Equipment Rental Page 2 of 4

ADOPTED this 15th day of July 2020.

Kati Parker

President of the Inland Empire Utilities Agency* and of the Board of Directors thereof

ATTEST:

Steven J. Elie
Secretary/ Treasurer of the Inland Empire
Utilities Agency* and of the Board of
Directors thereof

*a Municipal Water District

| Resolution No. 2020-7-8 Equipment Rental Page 3 of 4 | |
|--|---|
| STATE OF CALIFORNIA |) |
| COUNTY OF SAN BERNARDINO |)SS) |
| | ary/Treasurer of the Inland Empire Utilities Agency*, DO Resolution being No. 2020-7-8 was adopted at a regular ncy* by the following vote: |
| AYES: NOES: ABSTAIN: ABSENT: | |
| | Steven J. Elie Secretary/Treasurer |
| (SEAL) | |
| * A Municipal Water District | |

Resolution No. 2020-7-8 Equipment Rental Page 4 of 4

EXHIBIT 1

INLAND EMPIRE UTILITIES AGENCY* MAINTENANCE EQUIPMENT RENTAL RATES FISCAL YEAR 2020/21

GOVERNMENTAL AGENCIES WITHIN IEUA SERVICE BOUNDARIES

| | | RATE IN FORCE |
|--|--|----------------------|
| CCTV Camera Equipment Truck With one operator With two operators | per hour portal-to-portal per hour portal-to-portal | \$101.95 \$179.61 |
| Gap Vactor Truck With one operator With two operators | per hour portal-to-portal per hour portal-to-portal | \$111.58 \$189.25 |
| Safety Van With one operator With two operators | per hour portal-to-portal per hour portal-to-portal | \$76.47 \$144.47 |
| Water Truck With one operator With two operators | per hour portal-to-portal per hour portal-to-portal | \$85.51 \$163.17 |

RESOLUTION OF THE BOARD OF DIRECTORS OF THE INLAND EMPIRE UTILITIES AGENCY*, SAN BERNARDINO COUNTY, CALIFORNIA, ESTABLISHING RATES COVERING THE SALE OF RECYCLED WATER TO SUPPORT OPERATIONS AND MAINTENANCE OF IEUA'S REGIONAL RECYCLED WATER SYSTEM FOR FISCAL YEARS 2020/21 AND 2021/22

- **WHEREAS**, The Regional Advisory Committees have reviewed and recommended service rates for Fiscal Years 2020/21 and 2021/22:
- **NOW, THEREFORE,** the Board of Directors of the Inland Empire Utilities Agency* does hereby RESOLVE, DETERMINE, AND ORDER as follows:
- **Section 1.** That effective July 1, 2020, the direct sale of recycled water under the terms of Ordinance 69 that is available to our Contracting Agencies from the Tertiary Treatment Plants shall be \$1,503.98 per million gallons or \$490.00 per acre foot.
- **Section 2.** That effective July 1, 2020, the recharge sale of recycled water under the terms of Ordinance 69 that is available to our Contracting Agencies from the Tertiary Treatment Plants shall be \$1,688.15 per million gallons or \$550.00 per acre foot.
- **Section 3.** That effective July 1, 2021, the direct sale of recycled water under the terms of Ordinance 69 that is available to our Contracting Agencies from the Tertiary Treatment Plants shall be \$1,596.07 per million gallons or \$520.00 per acre foot, and remain in effect until rescinded by a new resolution.
- **Section 4**. That effective July 1, 2021, the recharge sale of recycled water under the terms of Ordinance 69 that is available to our Contracting Agencies from the Tertiary Treatment Plants shall be \$1,780.23 per million gallons or \$580.00 per acre foot, and remain in effect until rescinded by a new resolution.
- **Section 5.** Upon the effective date of this Resolution, Resolution No. 2015-5-4 is hereby rescinded in their entirety.

Resolution No. 2020-7-9 Page 2 of 3

ADOPTED this 15th day of July 2020.

Kati Parker

President of the Inland Empire Utilities Agency* and of the Board of Directors thereof

ATTEST:

Steven J. Elie Secretary/Treasurer of the Inland Empire Utilities Agency* and of the Board of Directors thereof

^{*} A Municipal Water District

| STATE OF CALIFORNIA) |
|--|
| COUNTY OF SAN BERNARDINO) |
| I, Steven J. Elie, Secretary/Treasurer of the Inland Empire Utilities Agency*, |
| i, etereire. Elle, ederetary, rreadurer er tile illiana Elliphie etillade rigeriey , |
| DO HEREBY CERTIFY that the foregoing Resolution being No. 2020-7-9, was adopted at |
| a regular meeting on July 15, 2020, of said Agency* by the following vote: |
| AYES: |
| NOES: |
| ABSTAIN: |
| ABSENT: |
| |
| Secretary/Treasurer (SEAL) |
| * A Municipal Water District |

Resolution No. 2020-7-9 Page 3 of 3

RESOLUTION OF THE BOARD OF DIRECTORS OF THE INLAND EMPIRE UTILITIES AGENCY* (IEUA), SAN BERNARDINO COUNTY, CALIFORNIA, ESTABLISHING THE REIMBURSEMENT PAYMENT FOR FISCAL YEAR 2020/21 THROUGH 2021/22.

- **WHEREAS**, the Finance, Legal, and Administration Committee and the Board of Directors have reviewed and recommended the adjustments to the Reimbursement Payment;
- **WHEREAS**, the financing of the Ten-Year Forecast requires that the Reimbursement Payment will be maintained at \$6,955 per Equivalent Dwelling Unit (EDU) effective July 1, 2020; and increased to \$7,379 per EDU effective July 1, 2021;
- **NOW THEREFORE**, the Board of Directors of the Inland Empire Utilities Agency* does hereby RESOLVE, DETERMINE AND ORDER the following to be effective on the dates shown, and remain in effect until rescinded by a new resolution:
- **Section 1**. July 1, 2020 for Fiscal Year 2020/21 the Reimbursement Payment for the Contracting Agencies shall be \$6,955 per EDU.
- **Section 2**. July 1, 2021 for Fiscal Year 2021/22 the Reimbursement Payment for the Contracting Agencies shall be \$7,379 per EDU
- **Section 3.** That the provisions of the Regional Sewage Service Contract and any amendments thereto, are hereby applicable and will remain in full force and effect.
- **Section 4**. That upon the effective date of this Resolution, Resolution No. 2015-5-5 is hereby rescinded.

RESOLUTION NO. 2020-7-10 Page 2 of 3

ADOPTED this 15th day of July 2020

Kati Parker

President of the Inland Empire Utilities Agency* and of the Board of Directors thereof

ATTEST:

Steven J. Elie Secretary/Treasurer of the Inland Empire Utilities Agency* and of the Board of Directors thereof

| RESOLUTION NO. 2020-7-10 Page 3 of 3 | |
|---|----------|
| STATE OF CALIFORNIA |))SS |
| COUNTY OF SAN BERNARDINO |) |

I, Steven J. Elie, Secretary/Treasurer of the Inland Empire Utilities Agency*, DO HEREBY CERTIFY that the foregoing Resolution being No. 2020-7-10 was adopted at a regular Board Meeting on July 15, 2020, of said Agency by the following vote:

AYES:

NOES:

ABSTAIN:

ABSENT:

Steven J. Elie
Secretary/Treasurer of the Inland Empire
Utilities Agency* and of the Board of
Directors thereof

^{*}A Municipal Water District

RESOLUTION OF THE BOARD OF DIRECTORS OF THE INLAND EMPIRE UTILITIES AGENCY*, SAN BERNARDINO COUNTY, CALIFORNIA, ESTABLISHING THE WATER CONNECTION FEE FOR FISCAL YEARS 2020/21 THROUGH 2024/25

WHEREAS, modification of this policy may be included in future rate resolutions; and

WHEREAS, the Board of Directors establishes a fee from each new connection or upsized connection within IEUA's service area as a condition of receiving water deliveries from any source provided by IEUA including, but not limited to, Metropolitan supplies, recycled water, and groundwater; and

WHEREAS, the Board of Directors has determined that each new connection is subject to fees based upon the meter size; and

WHEREAS, the Board of Directors has determined that the levy of a one-time connection fee charge be imposed on any new retail water connection or upsized connection to any water system within the Agency's service area in order to recover growth related costs incurred by the Agency and defined in Ordinance 104.

NOW, THEREFORE, the Board of Directors hereby RESOLVES, DETERMINES AND ORDERS the following to be effective, July 1 of each fiscal year, and remain in effect until rescinded by a new resolution:

Section 1. Customers subject to payment of water capacity charges for new connections shall pay the charges in accordance with the following table:

| Fiscal Year | 2020/21 | 2021/22 | 2022/23 | 2023/24 | 2024/25 |
|-------------------|-----------|-----------|-----------|-----------|-----------|
| Effective Date | 7/1/2020 | 7/1/2021 | 7/1/2022 | 7/1/2023 | 7/1/2024 |
| 5/8" | \$1,684 | \$1,787 | \$1,841 | \$1,896 | \$1,953 |
| 3/4" | \$1,684 | \$1,787 | \$1,841 | \$1,896 | \$1,953 |
| 1" | \$4,211 | \$4,466 | \$4,603 | \$4,740 | \$4,883 |
| 1.5" | \$8,420 | \$8,933 | \$9,205 | \$9,480 | \$9,765 |
| 2" | \$13,472 | \$14,292 | \$14,728 | \$15,168 | \$15,624 |
| 3" | \$29,471 | \$31,265 | \$32,218 | \$33,180 | \$34,178 |
| 4" | \$53,047 | \$56,277 | \$57,992 | \$59,724 | \$61,520 |
| 6" | \$117,880 | \$125,059 | \$128,870 | \$132,720 | \$136,710 |
| 8" | \$202,080 | \$214,387 | \$220,920 | \$227,520 | \$234,360 |
| 10" | \$252,600 | \$267,983 | \$276,150 | \$284,400 | \$292,950 |
| 12" | \$294,700 | \$312,647 | \$322,175 | \$331,800 | \$341,775 |

ADOPTED this 15th day of July, 2020.

Kati Parker
President of the Inland Empire Utilities Agency* and of the Board of Directors thereof

ATTEST:

Steven J. Elie Secretary/ Treasurer of the Inland Empire Utilities Agency* and of the Board of Directors thereof

*a Municipal Water District

| Resolution No. 2020-7-11 Page 3 of 3 | |
|---|---|
| STATE OF CALIFORNIA) | 0 |
| COUNTY OF SAN BERNARDINO) | 5 |
| I, Steven J. Elie, Secretary/Tı | reasurer of the Inland Empire Utilities Agency*, DO |
| HEREBY CERTIFY that the foregoing Reso | lution being No. 2020-7-11 was adopted at a regular |
| meeting on July 15, 2020, of said Agency* b | by the following vote: |
| | |
| AYES: | |
| NOES: | |
| ABSTAIN: | |
| ABSENT: | |
| | |
| | |
| | Steven J. Elie |
| | Secretary/Treasurer |
| | |
| (CEAL) | |
| (SEAL) | |
| | |
| * A Municipal Water District | |
| * A Municipal Water District | |

RESOLUTION OF THE BOARD OF DIRECTORS OF THE INLAND EMPIRE UTILITIES AGENCY (IEUA), SAN BERNARDINO COUNTY, CALIFORNIA, ESTABLISHING METER EQUIVALENT UNIT (MEU) RATES AND THE READINESS-TO-SERVE (RTS) TEN YEAR ROLLING AVERAGE (TYRA) PASS THROUGH

WHEREAS, pursuant to Division II, Part II, Section 201 of Ordinance No. 104, the Board of Directors of Inland Empire Utilities Agency (IEUA) establishes, from time to time, rates to support the readiness-to-serve charges from Metropolitan Water District of Southern California (MWD), program costs incurred for the regional water resources program.

WHEREAS, the Board of Directors of IEUA shall establish an annual Readiness to serve (RTS) pass-through charge, based on a Ten Year Rolling Average (TYRA) MWD methodology.

WHEREAS, the Board of Directors shall establish an annual Meter Equivalent Unit (MEU) charge rate to yield revenues sufficient to recover the regional water resources program costs.

WHEREAS, modification of this resolution may be included in future rate resolutions.

NOW, THEREFORE, the Board of Directors hereby RESOLVES, DETERMINES AND ORDERS that the following to be effective on the rates shown below, and remain in effect until rescinded by a new resolution:

Section 1.A That a Readiness-to-Serve Ten Year Rolling Average (RTS TYRA) pass-through shall be charged to the Local Agencies (Cucamonga Valley Water District, Fontana Water Company and Water Facilities Authority), to recover their share of total RTS charge imposed by MWD, and will be phased-in over a period of - seven (7) years as follows:

- a. October 1, 2016 through June 30, 2017 of Fiscal Year 2016/17, the RTS TYRA charge shall be 15% of the MWD RTS charge
- b. July 1, 2017 for Fiscal Year 2017/18, the RTS TYRA charge shall be 30% of the MWD RTS charge.
- c. July 1, 2018 for Fiscal Year 2018/19 the RTS TYRA charge shall be 45% of the MWD RTS charge.
- d. July 1, 2019, for Fiscal Year 2019/20 the RTS TYRA charge shall be 60% of the MWD RTS charge.

- e. July 1, 2020 for Fiscal Year 2020/21 the RTS TYRA charge shall be 75% of the MWD RTS charge.
- f. July 1, 2021, for Fiscal Year 2021/22 the RTS TYRA charge shall be 90% of the MWD RTS charge.
- g. July 1, 2022, for Fiscal Year 2022/23 the RTS TYRA charge shall be 100% of the MWD RTS charge.
- **Section 1.B** That a Readiness-to-Serve Ten Year Rolling Average (RTS TYRA) pass through shall be charged to Non Local Agencies to recover 100% of their share of total RTS charge imposed by MWD, effective October 1, 2016.
- **Section 2.** That the Meter Equivalent Unit (MEU) rate, shall be charged to the Local Agency effective July 1, 2020:
 - a. July 1, 2020 for Fiscal Year 2020/21, that the rate for each active retail water meter shall be \$1.04 per meter equivalent unit per month.
 - b. July 1, 2021 for Fiscal Year 2021/22, that the rate for each active retail water meter shall be \$1.08 per MEU per month.
 - c. for Fiscal Year 2022/23, that the rate for each active retail water meter shall be \$1.10 per MEU per month.
 - d. for Fiscal Year 2023/24, that the rate for each active retail water meter shall be \$1.12 per MEU per month.
 - e. for Fiscal Year 2024/25, that the rate for each active retail water meter shall be \$1.14 per MEU per month.
- **Section 3.** In the event of any delinquent payments for bills related to MEU or other charges, the Agency will apply Division III, Part I, Section 107 of Ordinance No. 104
- **Section 4.** That upon the effective date of this Resolution, Resolution No. 2016-6-7 is hereby rescinded in its entirety.

ADOPTED this 15th day of July 2020.

| Kati Parker |
|---|
| President of the Inland Empire Utilities Agency |
| and of the Board of Directors thereof |

ATTEST:

Steven J. Elie Secretary/ Treasurer of the Inland Empire Utilities Agency* and of the Board of Directors thereof

^{*}a Municipal Water District

| Resolution No. 2020-7-12 Page 4 of 4 | |
|---|--|
| STATE OF CALIFORNIA) | |
|)SS COUNTY OF SAN BERNARDINO) | |
| I, Steven J. Elie, Secretary/Treasurer of the Inland Empire Utilities Agency*, DC HEREBY CERTIFY that the foregoing Resolution being No. 2020-7-12, was adopted at a regular meeting on July 15, 2020, of said Agency* by the following vote: | |
| AYES: NOES: ABSTAIN: ABSENT: | |
| Steven J. Elie Secretary/Treasurer | |
| (SEAL) | |
| * A Municipal Water District | |

ACTION ITEM

3C



Date: July 15, 2020

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

Committee: Engineering, Operations & Water Resources 07/08/20

Finance & Administration 07/08/20

Executive Contact: Christiana Daisy, Executive Manager of Engineering/AGM

Subject: RP-5 Expansion Construction Contract Award

Executive Summary:

The Regional Water Recycling Plant No. 5 (RP-5) Expansion will expand the RP-5 Liquids Treatment to 22.5 MGD (mechanical systems) and 30 MGD (structural systems) to meet the growing demands of Inland Empire Utilities Agency (IEUA's) service area and will relocate treatment capacity from Regional Water Recycling Plant No. 2 (RP-2) to RP-5 by constructing the new RP-5 Solids Treatment Facility to treat up to 30 MGD of solids from both Carbon Canyon Water Reclamation Facility (CCWRF) and RP-5. The project design was completed in October 2019, and the project was released for bid on October 31, 2019. On May 21, 2020, IEUA received four construction bids from four pre-qualified contractors. W.M. Lyles Co. was the lowest responsive, responsible bidder, with a bid price of \$329,982,900 (revised engineer's estimate of \$340,128,000). An update of the RP-5 Expansion Project bid phase was provided to the Board in June 2020 to detail the bid phase process. The construction contract award was unanimously recommended for IEUA Board approval by the Regional Technical and Policy Committees. Due to additions during the bid phase and further defined site conditions relating to soils conditions, ground water, and site parking, IEUA will be requesting an augmentation of the total project budget from \$398,609,289 to \$450,000,000 (13%) increase) in the Regional Capital (RC) Fund at a later date.

Staff's Recommendation:

- 1. Award a construction contract for the RP-5 Expansion, Project Nos. EN19001 and EN19006, to W.M. Lyles Co., in the amount of \$329,982,900; and
- 2. Authorize the General Manager to execute the contract and budget augmentation, subject to non-substantive changes.

Budget Impact Budgeted (Y/N): Y Amendment (Y/N): Y Amount for Requested Approval: \$51,390,711

Account/Project Name:

EN19001/RP-5 Liquids Treatment Expansion EN19006/RP-5 Solids Treatment Facility

Fiscal Impact (explain if not budgeted):

The total project budget for the RP-5 Expansion, Project Nos. EN19001 and EN19006, will increase from \$398,609,289 to \$450,000,000 (13% increase), respectively, in the Regional Capital (RC) Fund through a future request.

Prior Board Action:

On November 20, 2019, the Board of Directors awarded a contract to Arcadis, for construction management services for a not-to-exceed amount of \$21,125,523.

On November 20, 2019, the Board of Directors awarded a contract amendment to Parsons, for engineering services during construction for a not-to-exceed amount of \$12,589,469.

Environmental Determination:

Program Environmental Impact Report (Finding of Consistency)

A Finding of Consistency with IEUA's Program Environmental Impact Report and a CEQA Plus evaluation for SRF Loan Funding have been completed.

Business Goal:

The RP-5 Expansion Project is consistent with IEUA's Business Goal of Wastewater Management, specifically the Asset Management and Water Quality objectives that IEUA will ensure that systems are well maintained, upgraded to meet evolving requirements, sustainably managed, and can accommodate changes in regional water use to protect public health, the environment, and meet anticipated regulatory requirements.

Attachments:

Attachment 1 - PowerPoint

Attachment 2 - Construction Contract

Board-Rec No.: 20161

Attachment 1

RP-5 Expansion Construction Contract Award Project Nos. EN19001 and EN19006









Jason Marseilles, P.E. July 2020

Project Location – RP-5 Expansion



RP-5 Facility







Liquid Expansion



The Project

- Expand RP-5 Liquids Treatment to 22.5 MGD (mechanical systems) and 30 MGD (structural systems)
- Relocate RP-2 to RP-5
- Construct RP-5 Solids Treatment Facility to treat 30 MGD of solids from both CCWRF and RP-5



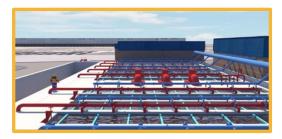
RP-5 Expansion New Facilities



Project Scope

RP-5 Liquid Expansion

- Influent pump station expansion
- Headworks improvements
- Two new primary clarifiers
- Existing aeration basin improvements
- New Membrane Bioreactor (MBR) system
- Rerating of the chlorine contact basin



New MBR Basin Model



RP-5 Biosolids Facility

- Rotary drum thickening building
- Digester facilities
- Centrifuge dewatering building
- Boiler building
- Digester gas treatment and flaring
- REEP Energy Improvements



Digester Facilities Model

Contractor Selection

• Four bids received on May 21, 2020 from the Prequalified Contractors:

| Bids Received | Bid Amount |
|------------------------------|---------------|
| W.M. Lyles | \$329,982,900 |
| J.F. Shea | \$339,726,750 |
| Kiewit | \$375,707,000 |
| PCL | \$425,939,779 |
| Revised Engineer's Estimate: | \$340,128,000 |



Project Budget and Schedule EN19001 and EN19006

| Description | Estimated Cost |
|--|----------------|
| Design Phase Services | \$26,406,753 |
| Construction Services | \$43,361,716 |
| Construction Management | \$22,625,523 |
| Engineering Services During Construction | \$11,346,349 |
| Other Construction Services | \$7,325,000 |
| Contingency (5%) | \$2,064,844 |
| Construction | \$376,181,190 |
| RP-5 Expansion Bid (This Action) | \$329,982,900 |
| Offsite Facilities Bid (estimate) | \$12,000,000 |
| Contingency (~10%) | \$34,198,290 |
| Total Project Cost: | \$445,949,659 |
| Total Requested Project Budget: | \$450,000,000* |

| Project Milestone | Date |
|---|---------------|
| Construction | |
| IEUA Board Construction Contract Award | July 15, 2020 |
| Solids Facility Completion | January 2024 |
| Liquids Construction Completion | January 2025 |

^{*} Total future project budget amendment request.

Recommendation

- 1. Award a construction contract for the RP-5 Expansion, Project Nos. EN19001 and EN19006, to W.M. Lyles Co., in the amount of \$329,982,900; and
- 2. Authorize the General Manager to execute the contract and budget augmentation, subject to non-substantive changes.

The RP-5 Expansion Project is consistent with *IEUA's Business Goal of Wastewater Management*, specifically the Asset Management and Water Quality objectives that IEUA will ensure that systems are well maintained, upgraded to meet evolving requirements, sustainably managed, and can accommodate changes in regional water use to protect public health, the environment, and meet anticipated regulatory requirements.



Attachment 2

SECTION D - CONTRACT AND RELEVANT DOCUMENTS

1.0 CONTRACT

| THIS CONTRACT, made and entered into thisday of | _, 20, by |
|--|-------------|
| and between W.M. Lyles Co., hereinafter referred to as "CONTRACTOF | ₹," and The |
| Inland Empire Utilities Agency, a Municipal Water District, located in San | Bernardino |
| County, California, hereinafter referred to as "IEUA". | |

WITNESSED:

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 <u>REGIONAL WATER RECYCLING PLANT NO. 5 (RP-5) LIQUIDS TREATMENT EXPANSION TO 22.5 MGD AND SOLIDS TREATMENT FACILITY PROJECT NOS. EN19001 & EN19006 (IFVB-JV-19-018), 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.</u>
- **B.** For furnishing all said labor, materials, equipment, tools, and services, furnishing and removing all plant, temporary structures, tools and equipment, and doing everything required by this Contract and said Bid Documents; also for all loss and damage arising out of the nature of the WORK aforesaid, or from the action of the elements, or from any unforeseen difficulties which may arise during the prosecution of the WORK until its acceptance by IEUA, and for all risks of every description connected with the WORK; also for all expenses resulting from the suspension or discontinuance of WORK, except as in the said Bid Documents are expressly stipulated to be borne by IEUA; and for completing the WORK in accordance with the requirements of said Bid Documents, IEUA will pay and said CONTRACTOR shall receive, in full compensation therefore, the price(s) set forth in this Contract.
- C. That IEUA will pay the CONTRACTOR progress payments and the final payment, in accordance with the provisions of the Contract Documents, with warrants drawn on the appropriate fund or funds as required, at the prices bid in the Bidding and Contract Requirements, Section C Bid Forms and accepted by IEUA, and set forth in this below.

Total Bid Price Three Hundred Twenty-Nine Million Nine Hundred Eighty-Two
Thousand Nine Hundred Dollars. and Zero Cents.

- D. IEUA hereby employs the CONTRACTOR to perform the WORK according to the terms of this Contract for the above-mentioned price(s), and agrees to pay the same at the time, in the manner, and upon the conditions stipulated in the said Bid Documents; and the said parties for themselves, their heirs, executors, administrators, successors, and assigns, do hereby agree to the full performance of the covenants herein contained.
- E The Notice Inviting Bids, Instructions to Bidders, Bid Forms, Information Required of Bidder, Performance Bond, Payment Bond, CONTRACTOR's License Declaration, Specifications, Drawings, all General Conditions, 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 as follows:
 - SOLIDS TREATMENT FACILITY SUBSTANTIAL COMPLETION shall be <u>One Thousand Two Hundred and Seventy-Five</u> (1275) calendar days after the Notice of Award by IEUA.
 - ii. FINAL COMPLETION shall be <u>One Thousand Six Hundred and Forty</u> (1640) calendar days after the Notice of Award by IEUA.
 - iii. All WORK shall be completed before final payment is made.
- **G.** Time is of the essence on this Contract.
- H CONTRACTOR agrees that in case the WORK is not completed before or upon the expiration of the Contract Time, damage will be sustained by IEUA, and that it is and will be impracticable to determine the actual damage which IEUA will sustain in the event and by reason of such delay, and it is therefore agreed that the CONTRACTOR shall pay to IEUA the amounts as set forth in General Conditions, Section C Changes to the Contract for each day of delay, which shall be the period between the expiration of the Contract Time and the date of final acceptance by IEUA, as liquidated damages and not as a penalty. It is further agreed that the amount stipulated for liquidated damages per day of delay is a reasonable estimate of the damages that would be sustained by IEUA, and the CONTRACTOR agrees to pay such liquidated damages as herein provided. In case the liquidated damages are not paid, the CONTRACTOR agrees that IEUA may deduct the amount thereof from any money due or that may become due to the CONTRACTOR by progress payments or otherwise under the Contract, or if said amount is not sufficient, recover the total amount.
- 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, representatives, 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. | W. M. Lyles Co. |
| | |
| By | By Art 8 |
| General Manager | |
| | Robert P. Saleen, Sr. Vice President |
| | Title |

^{*} A Municipal Water District

INFORMATION ITEM

4A

Operations Division Update

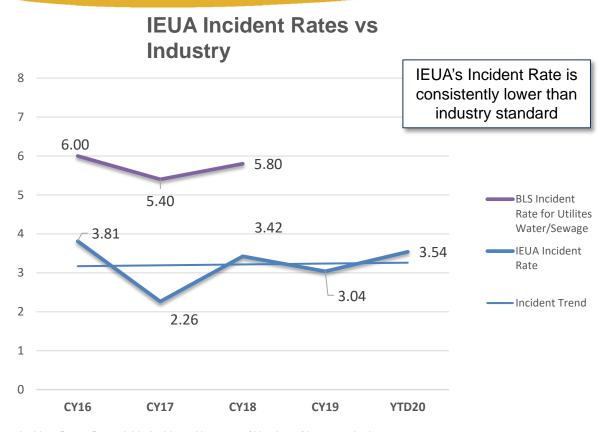






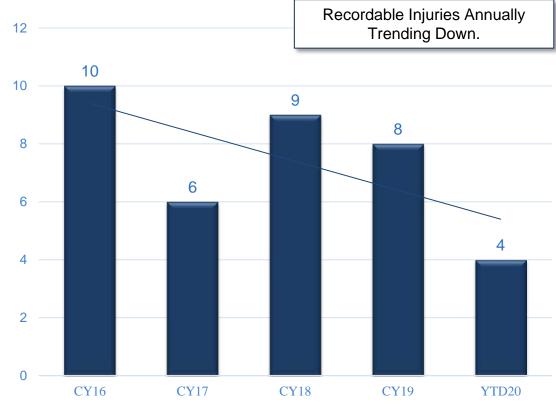


IEUA Incident Rates vs Industry & Total Recordable Injuries



- Incident Rate= Recordable Incidents X 200,000 / Number of hours worked
- RECORDABLE INCIDENT RATE Incident rates are a metric used to compare a company's safety performance
 against a national. This comparison is a safety benchmark to gauge performance with other companies in the same
 business group, so you can make an "apples to apples" comparison

Total Recordable Injuries by Calendar Year





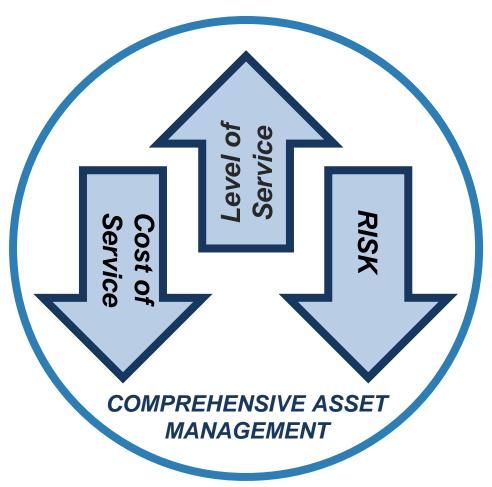
O/M Training Brings It All Together







What is Asset Management (AM)?



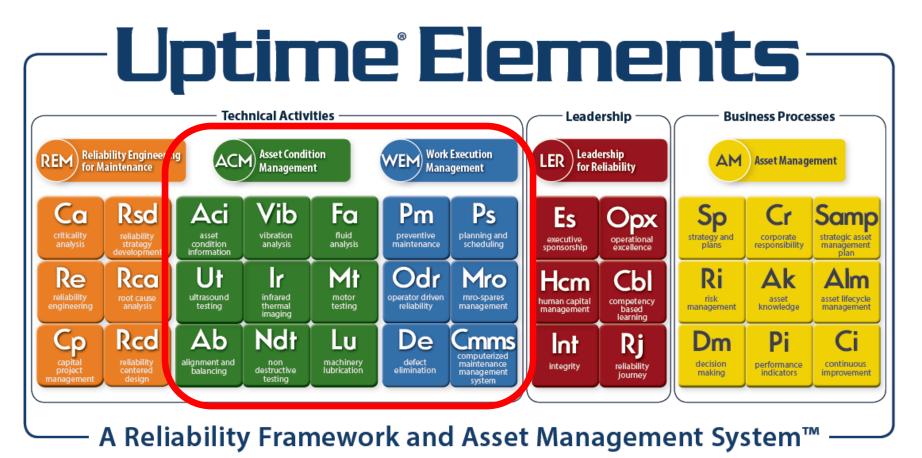
Doing the right projects,

at the right cost,

at the right time.



How does this relate to O/M training





Operations Training





Vendor Supplied Equipment Training

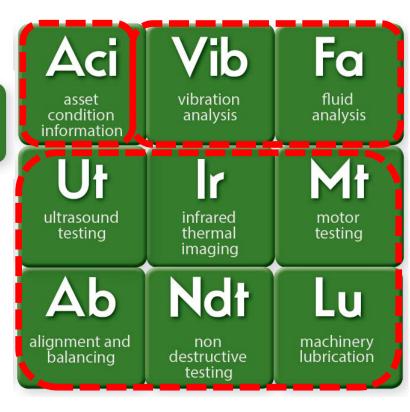
- RP-4 Tertiary Filters
- RP-1 Grit Washers & Classifiers
- Aeration Blowers
- Dewatering Centrifuges





Maintenance Training





Technical Training

- Basic PLC
- Instrumentation
- AC/DC Generator Theory
- National Electrical Code
- Bearings





INFORMATION ITEM

4B

Engineering and Construction Management Project Updates







Jerry Burke, P.E. July 2020



HQ Driveway Safety Improvements

Project Goal: Improve Safety and Accessibility

Total Project Budget: \$400 K Project Completion: May 2021 Design Percent Complete: 90%

| Phase | Consultant/ Contractor | Current Contract | Amendments/ Change Orders |
|---------------------|---------------------------|---------------------|------------------------------|
| Design (Current) | Value Engineering | \$40 K | 0% |
| Construction | TBD | \$0 | 0% |





Existing Driveway

RP-1 TP-1 Waste Wash Water Basin Pumps Replacement

Project Goal: Increase Operational Efficiency



Total Project Budget: \$650 K **Project Completion:** March 2021 **Design Percent Complete:** 100%

| Phase | Consultant/ Contractor | Current Contract | Amendments/ Change Orders |
|---------------------|---------------------------|---------------------|---------------------------------|
| Design (Current) | WSC | \$91 K | 0% |
| Construction | TBD | \$0 | 0% |

Existing pump motors



RSS Haven Avenue Repair and Replacement

Project Goal: Increase Asset Life

Total Project Budget: \$6 M

Project Completion: September 2022

Design Percent Complete: 20%

| Phase | Consultant/ Contractor | Current Contract | Amendments/ Change Orders |
|---------------------|---------------------------|---------------------|---------------------------------|
| Design (Current) | GHD | \$222 K | 3% |
| Construction | TBD | TBD | 0% |

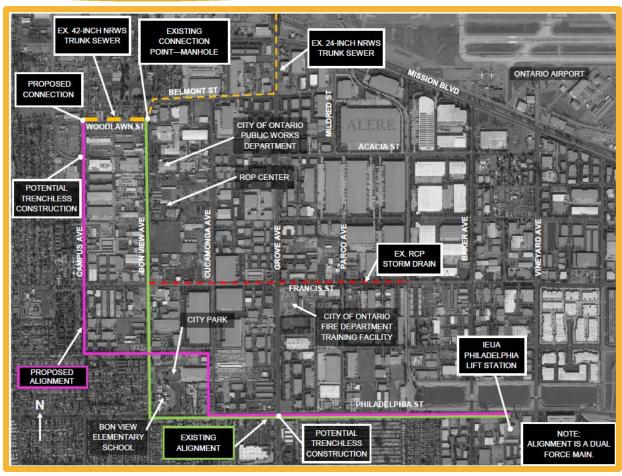




Pipeline Lining Deterioration

Philadelphia Lift Station Force Main Improvements

Project Goal: Increase Asset Life



Total Project Budget: \$18.4 M
Project Completion: August 2022
Pre-Design Percent Complete: 80%

| Phase | Consultant/ Contractor | Current Contract | Amendments/ Change Orders |
|----------------------|---------------------------|---------------------|------------------------------|
| Pre-Design (Current) | GHD | \$812 K | 32% |
| Construction | TBD | \$0 M | 0% |

Proposed New Alignment

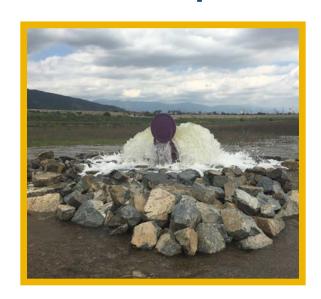


INFORMATION ITEM

4G

Grants Department Semi-Annual Board Update



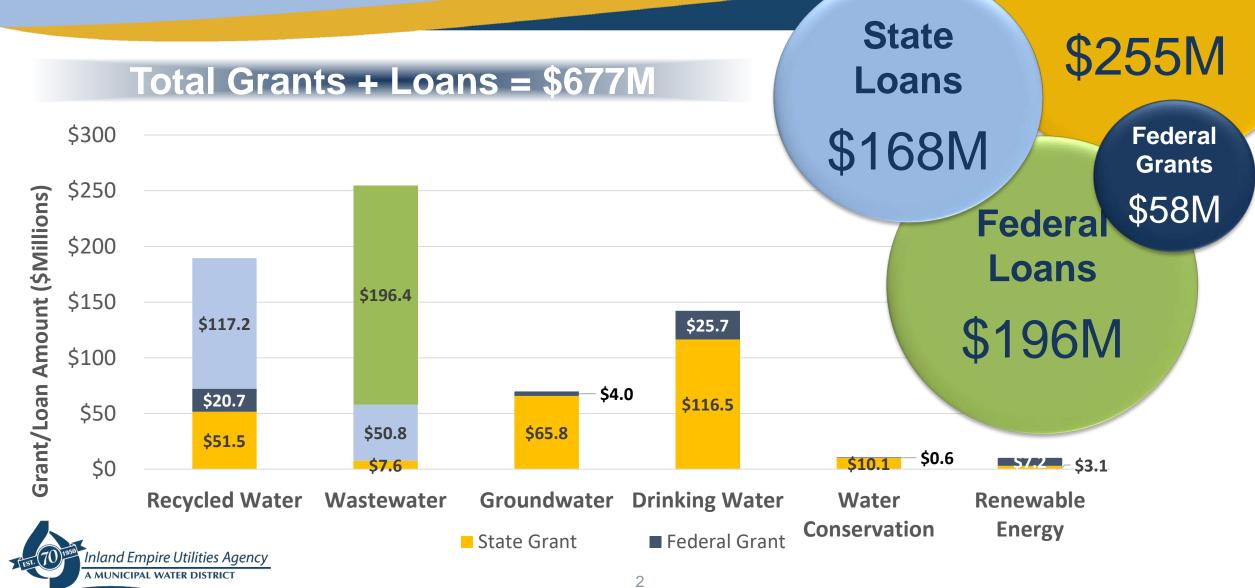






Jesse Pompa, P.E., BCEE July 2020

Grant & Loan Funding Programs Overview 2000 – Present



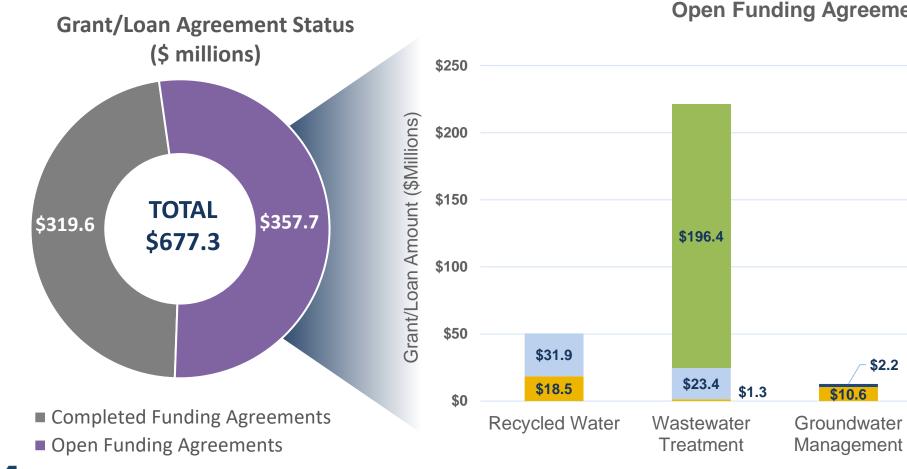
State

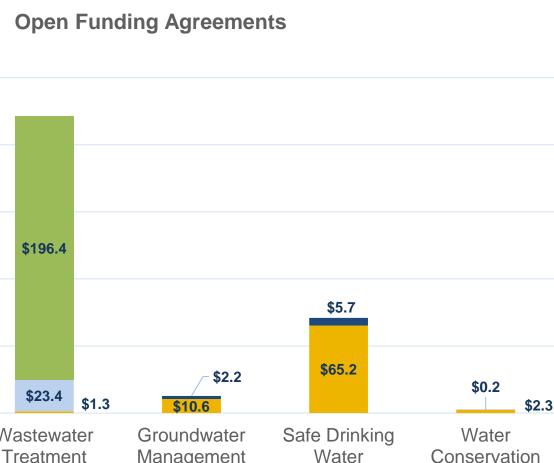
Grants

Active Grants and Loans

Inland Empire Utilities Agency

A MUNICIPAL WATER DISTRICT





■ Federal Loan

State Grant

■ Federal Grant ■ SRF Loan

Current Funding Applications

| Applications in Preparation | | | |
|---------------------------------|------------------------------|-----------------|--|
| Funding Agency | Project Name | Amount (\$M) | |
| CWC | Chino Basin Program (CBP) | \$206.9 | |
| USBR | Water Efficiency Rebates | \$2.0 | |
| USBR | Montclair Basin Improvements | \$0.8 | |
| | TOTAL | \$209.7 | |

| Applications Submitted, Pending Award Decision | | | |
|--|---------------------------------------|--------------|--|
| Funding Agency | Project Name | Amount (\$M) | |
| FEMA/Cal OES | COVID-19 Response Efforts | \$0.4 | |
| SWRCB (Loan) | RP-1 Disinfection Improvements | \$8.5 | |
| | TOTAL | \$8.9 | |

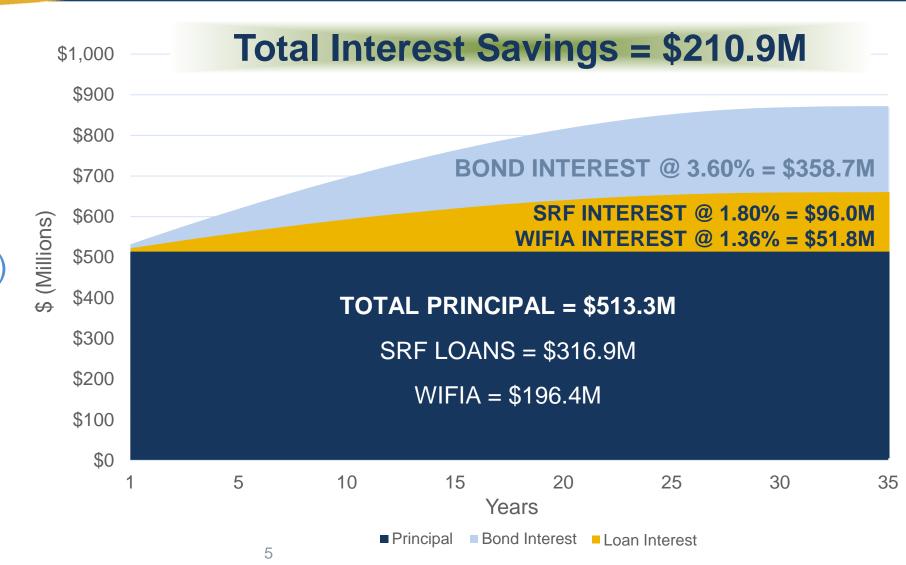
| Awarde | d, Agreement in Negotiation | |
|-------------------|---|---------|
| Funding Agency | Project Name | |
| SAWPA/DWR | IEUA-JCSD RW Intertie | \$2.6 |
| USBR | Granular Activated Carbon Treatment Facility (Desalter I) | \$0.8 |
| SWRCB (Loan) | RP-5 Expansion | \$101.5 |
| SWRCB (Loan) | IEUA-JCSD RW Intertie | \$30.5 |
| SWRCB (Loan) | Wineville/Jurupa/RP-3 Basin | \$8.8 |
| SWRCB (Loan) | RP-1 1158 RWPS | \$6.7 |
| SWRCB (Loan) | RP-5 RW Pipeline Bottleneck | \$3.1 |
| SWRCB (Loan) | Montclair Basin | \$1.8 |
| SWRCB (Loan) | Lower Day Basin | \$2.9 |
| | TOTAL | \$158.7 |



Total Loan Savings – Comparison Between Loan and Bond Interest

SRF Loan Terms

- 30-year at 1.8%(50% of the State general obligation bond rate at 3.6%)
- EPA WIFIA Loan
 Terms
 - 35-year at 1.36%





Grant Program Highlights

- Water Infrastructure Finance and Innovation Act (WIFIA) – RP-5 Expansion Loan
 - Letter of Interest submitted on 7/26/18
 - Agreement executed on 5/27/20
 - Final funding amount = \$196.4M
- Drought Contingency Plan (DCP)
 - \$200,000 USBR grant

Inland Empire Utilities Agency

- Collaborative planning effort with member agencies
- DCP approved by USBR in April 2020
- Will benefit IEUA, member agencies in future grant opportunities





INFORMATION ITEM

4H



Date: July 15, 2020

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

Committee: Finance & Administration 07/08/20

Executive Contact: Christina Valencia, Executive Manager of Finance & Administration/AGM

Subject: Treasurer's Report of Financial Affairs

Executive Summary:

The Treasurer's Report of Financial Affairs for the month ended May 31, 2020 is submitted in a format consistent with the State requirements.

For the month of May 2020, total cash, investments, and restricted deposits of \$294,488,430 reflects an increase of \$6,561,965 compared to the total of \$287,926,465 reported for April 2020. The increase was primarily due to property tax receipts of \$8.0 million. As a result, the average days cash on hand for the month ended May 31, 2020 increased from 256 days to 267 days.

The unrestricted Agency investment portfolio yield in May 2020 was 1.857 percent, a decrease of 0.0174 percent compared to the April 2020 yield of 2.031 percent. The slight decrease in yield is mainly attributed to overall market conditions which decreased the earning yield in some investments, such as the Local Agency Investment Fund (LAIF) and California Asset Management Program (CAMP).

Staff's Recommendation:

The Treasurer's Financial Affairs Report for the month ended May 31, 2020 is an information item for the Board of Director's review.

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

Fiscal Impact (explain if not budgeted):

Interest earned on the Agency's investment portfolio increased the Agency's overall reserves.

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

Prior Board Action:

On June 17, 2020 the Board of Directors approved the Treasurer's Report of Financial Affairs for the month ended April 30, 2020.

Environmental Determination:

Not Applicable

Business Goal:

The Financial Affairs report is consistent with the Agency's Business Goal of Fiscal Responsibility in providing financial reporting that accounts for cash and investment activities to fund operating requirements and to optimize investment earnings.

Attachments:

Attachment 1 - Background

Attachment 2 - PowerPoint

Attachment 3 - Treasurer's Report of Financial Affairs

Board-Rec No.: 20147

Background

Subject: Treasurer's Report of Financial Affairs

The Treasurer's Report of Financial Affairs for the month ended May 31, 2020 is submitted in a format consistent with State requirements. The monthly report denotes investment transactions that have been executed in accordance with the criteria stated in the Agency's Investment Policy (Resolution No. 2020-4-3).

Agency total cash, investments, and restricted deposits for the month of May 2020 was \$294.5 million, an increase of \$6.6 million from the \$287.9 million reported for the month ended April 2020. The increase was primarily due to receipt of \$8.0 million of property taxes.

The extreme volatility seen in the market in March and April has started to subside. Despite this and the rebound in equities from the March lows, caution abounds as many uncertainties in the economy remain. In response, PFM is actively working to ensure investments continue to be aligned with the pool's goal of safety of principal, liquidity, redeem shares, and frequently review investment valuation to ensure market changes do not adversely affect current investments.

Table 1 represents the unrestricted Agency investment portfolio, by authorized investment and duration, with a total portfolio amount of \$156.7 million. The Agency portfolio excludes cash and restricted deposits in the amount of \$137.8 million held by member agencies and with fiscal agents.

Table 1: Agency Portfolio

Allowoble

Investment Value as or

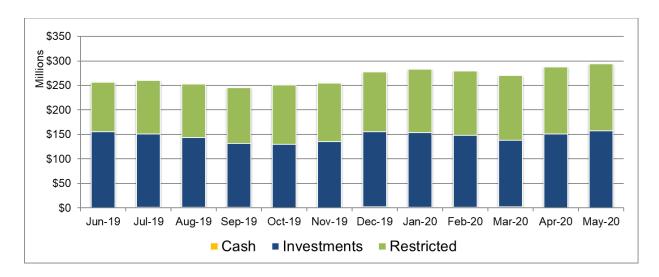
| Authorized Investments | Allowable Threshold (\$ million | I | nvestment V May 31 (\$ mil) | , 2020 | | Average Yield % | Portfolio% (Unrestricted) 28.11% 6.73% 5.01% 39.84% |
|----------------------------------|---------------------------------------|-----------------|-----------------------------------|-----------------|---------|--------------------|---|
| | or %) | Under 1 Year | 1-3 Years | Over 3 Years | Total | Tielu % | (Officestricted) |
| LAIF*- Unrestricted | \$75 | \$44.0 | \$0 | \$0 | \$44.0 | 1.378% | 28.11% |
| CAMP** – Unrestricted | n/a | 10.5 | | | 10.5 | .0670% | 6.73% |
| Citizens Business Bank – Sweep | 40% | 7.8 | | | 7.8 | 0.500% | 5.01% |
| Sub-Total Agency M | Ianaged | \$62.4 | \$0 | \$0 | \$62.4 | 1.148% | 39.84% |
| Brokered Certificates of Deposit | 30% | \$3.1 | \$2.5 | \$0 | \$5.5 | 2.747% | 3.49% |
| Medium Term Notes | 30% | 0.3 | 12.1 | 5.9 | 18.3 | 2.556% | 11.70% |
| US Treasury Notes | n/a | | 21.8 | 20.2 | 42.0 | 2.379% | 26.81% |
| US Gov't Securities | n/a | 6.2 | 9.3 | 12.9 | 28.4 | 2.018% | 18.16% |
| Sub-Total PFM Ma | naged | \$9.6 | \$45.7 | \$39.0 | \$94.2 | 2.33% | 60.16% |
| Total | | \$72.0 | \$45.7 | \$39.0 | \$156.7 | 1.857% | 100.0% |

^{*}LAIF - Local Agency Investment Fund

Figure 1: Cash, Investments, and Restricted Deposits

^{**}CAMP - California Asset Management Program

^{+/-} due to rounding



Average days cash on hand is calculated using the monthly ending balance of unrestricted cash and cash equivalents divided by disbursements associated with operating expenses, debt service, and capital expenditures as recorded in the Agency's cash flow. The average days cash on hand for the month ended May 2020 increased from 256 days to 267 days as shown in Figure 2.

\$350 350 Days Cash on Hand \$300 300 263 256 248 243 228 233 219 \$250 218 250 \$200 200 \$150 150 \$100 100 \$50 50 \$0 Jul-19 Aug-19 Sep-19 Nov-19 Dec-19 Jan-20 Feb-20 Mar-20 Apr-20 Unrestricted Cash and Cash Equivalents 12 Mos Rolling Disbursements → Days Cash on Hand - 12 Mos Average Exp

Figure 2: Days Cash on Hand – 12 Month Rolling Average

Monthly cash and investment summaries are available on the Agency's website at: https://www.ieua.org/read-our-reports/cash-and-investment/

Treasurer's Report of Financial Affairs for Month Ended May 31, 2020









Agency Liquidity

Decrease in overall yield mainly attributed to lower yields in Local Agency Investment Fund (LAIF) and California Asset Management Program (CAMP).

| Description | May (\$ million) | April (\$ million) | Increase/ (Decrease) (\$ million) |
|---|---------------------|-----------------------|--------------------------------------|
| Investment Portfolio | \$156.7 | \$149.7 | \$7.0 |
| Cash and Restricted Deposits | \$137.8 | \$138.2 | (\$0.4) |
| Total Investments, Cash, and Restricted Deposits | \$294.5 | \$287.9 | \$6.6 |
| Investment Portfolio Yield | 1.857% | 2.031% | (0.174%) |
| Weighted Average Duration (Years) | 1.11 | 1.04 | 0.07 |
| Average Cash on Hand (Days) | 267 | 256 | 11 |

Monthly cash and investment summaries available at https://www.ieua.org/read-our-reports/cash-and-investment/

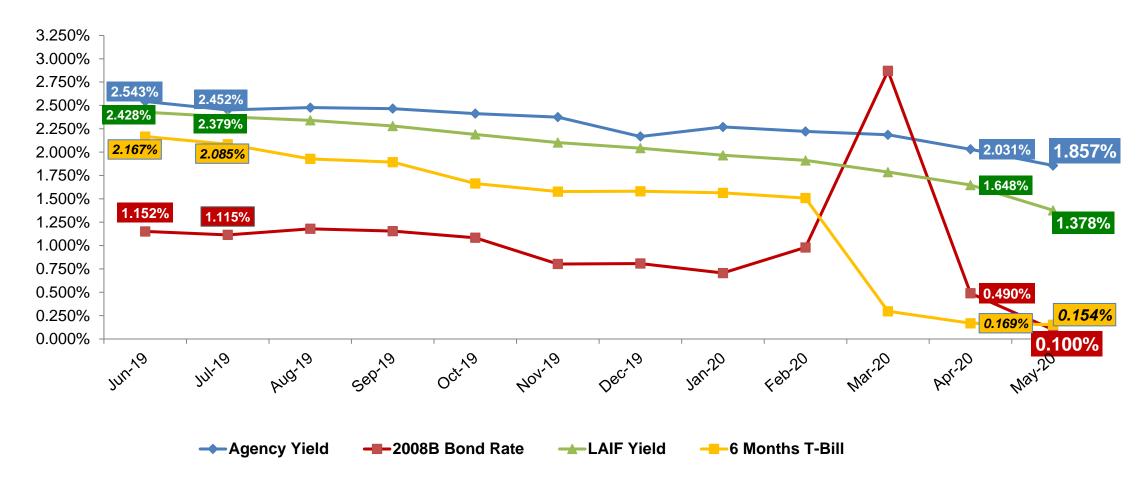


Agency Investment Position

| Authorized Investments | Allowable Threshold (\$ million or %) | Under 1 Year | 1 - 3 Years | Over 3 Years | Total | Average Yield % | Portfolio % (Unrestricted) |
|---------------------------------------|---|-----------------|----------------|-----------------|---------|--------------------|-------------------------------|
| Local Agency Investment Fund | \$75 | \$44.0 | \$0.0 | \$0.0 | \$44.0 | 1.378% | 28.11% |
| California Asset Management Program | n/a | 10.5 | | | 10.5 | 0.67 | 6.73 |
| Citizens Business Bank – Sweep | 40% | 7.8 | | | 7.8 | 0.5 | 5.01 |
| Sub-Total Agency Managed | | \$62.4 | \$0.0 | \$0.0 | \$62.4 | 1.148% | 39.84% |
| Brokered Certificates of Deposit (CD) | 30% | \$3.1 | \$2.5 | \$0.0 | \$5.5 | 2.747% | 3.49% |
| Medium Term Notes | 30% | 0.3 | 12.1 | 5.9 | 18.3 | 2.556 | 11.70 |
| US Treasury Notes | n/a | | 21.8 | 20.2 | 42.0 | 2.379 | 26.81 |
| US Government Securities | n/a | 6.2 | 9.3 | 12.9 | 28.4 | 2.018 | 18.16 |
| Sub-Total PFM Managed | | \$9.6 | \$45.7 | \$39.0 | \$94.2 | 2.33% | 60.16% |
| Total | | \$72.0 | \$45.7 | \$39.0 | \$156.7 | 1.857% | 100.0% |



Portfolio Yield Comparison





Questions



The Treasurer's Report of Financial Affairs is consistent with the Agency's business goal of fiscal responsibility.

Inland Empire Utilities Agency

TREASURER'S REPORT OF FINANCIAL AFFAIRS

For the Month Ended November 30, 2019



All investment transactions have been executed in accordance with the criteria stated in the Agency's Investment Policy (Resolution No. 2019-3-1) adopted by the Inland Empire Utilities Agency's Board of Directors during its regular meeting held on May 15, 2019.

The funds anticipated to be available during the next six-month period are expected to be sufficient to meet all foreseen expenditures during the period.

* A Municipal Water District

Cash and Investment Summary

Month Ended November 30, 2019

| | November | October | Variance |
|--|---------------|-----------------------|---------------|
| Cash, Bank Deposits, and Bank Investment Accounts | \$136,528 | (\$290,081) | \$426,609 |
| <u>Investments</u> | | | _ |
| Agency Managed | | | |
| Citizens Business Bank (CBB) Repurchase (Sweep) | \$6,515,208 | \$8,031,064 | (\$1,515,856) |
| Local Agency Investment Fund (LAIF) | 20,792,356 | 14,792,356 | 6,000,000 |
| California Asset Management Program (CAMP) | 14,918,541 | 14,895,485 | 23,056 |
| Total Agency Managed Investments | 42,226,105 | 37,718,905 | 4,507,200 |
| PFM Managed | | | |
| Certificates of Deposit | \$3,864,859 | \$3,864,836 | \$23 |
| Municipal Bonds | 0 | 0 | 0 |
| Commercial Paper | 0 | 0 | 0 |
| Medium Term Notes | 17,501,435 | 17,502,580 | (1,145) |
| U.S. Treasury Notes | 50,365,990 | 49,208,609 | 1,157,381 |
| U.S. Government Sponsored Entities | 21,056,119 | 21,853,922 | (797,803) |
| Total PFM Managed Investments | 92,788,403 | 92,429,947 | 358,456 |
| Total Investments | \$135,014,508 | \$130,148,852 | \$4,865,656 |
| Total Cash and Investments Available to the Agency | \$135,151,036 | \$129,858,771 | \$5,292,265 |
| Restricted Deposits | | | |
| CAMP Water Connection Reserve | \$17,603,000 | \$16,671,811 | \$931,189 |
| LAIF Self Insurance Reserve | 6,492,046 | 6,492,046 | (0) |
| Debt Service Accounts | 2,624,069 | 7,326,224 | (4,702,155) |
| Capital Capacity Reimbursement Account (CCRA) Deposits Held by Member Agencies** | 75,042,687 | 72,103,966 | 2,938,721 |
| California Employers' Retirement Benefit Trust Account - CERBT (Other Post | 17,973,671 | 17,815,437 | 158,234 |
| Employment Benefits - OPEB) | 17,973,071 | 17,013,437 | 130,234 |
| Escrow Deposits | 59,185 | 55,668 | 3,517 |
| Total Restricted Deposits | \$119,794,658 | \$120,465,152 | (\$670,494) |
| The Later of the L | #2F4 04F (C4 | #2 # 0.222.022 | ¢4.604.854 |
| Total Cash, Investments, and Restricted Deposits | \$254,945,694 | \$250,323,923 | \$4,621,771 |

^{**}Total reported as of October 2019

Cash and Investment Summary

Month Ended November 30, 2019

Cash, Bank Deposits, and Bank Investment Accounts

| CBB Demand Account (Negative balance offset by CBB Sweep Balance) | (\$81,760) |
|---|--------------|
| CBB Payroll Account | - |
| CBB Workers' Compensation Account | 41,551 |
| Subtotal Demand Deposits | (\$40,209) |
| Other Cash and Bank Accounts | |
| Petty Cash | \$2,250 |
| Subtotal Other Cash | \$2,250 |
| US Bank Pre-Investment Money Market Account | \$174,487 |
| Total Cash and Bank Accounts | \$136,528 |
| <u>Unrestricted Investments</u> | |
| CBB Repurchase (Sweep) Investments | |
| Freddie Mac | \$6,515,208 |
| Subtotal CBB Repurchase (Sweep) | \$6,515,208 |
| Local Agency Investment Fund (LAIF) | |
| LAIF Fund | \$20,792,356 |
| Subtotal Local Agency Investment Fund | \$20,792,356 |
| California Asset Management Program (CAMP) | |
| Short Term | \$14,918,541 |
| Subtotal CAMP | \$14,918,541 |
| Subtotal Agency Managed Investment Accounts | \$42,226,105 |

Cash and Investment Summary

Month Ended November 30, 2019

Unrestricted Investments Continued

| Brokered Certificates of Deposit | |
|---|-------------|
| Brokered Certificates of Deposit | \$3,864,859 |
| Subtotal Brokered Certificates of Deposit | \$3,864,859 |
| Medium Term Notes | |
| UPS of America Inc | \$738,416 |
| Hershey Company | 334,885 |
| American Honda Finance | 783,153 |
| UnitedHealth Group Inc | 754,777 |
| Toyota Motor | 1,187,562 |
| Bank of NY Mellon | 2,768,230 |
| American Express | 791,350 |
| Walt Disney Company | 805,286 |
| Paccar Financial Corp | 929,588 |
| Visa Inc | 805,839 |
| Bank of America | 779,772 |
| Oracle Corporation | 1,398,912 |
| Amazon Inc | 927,416 |
| Burlington North Santa Fe Corp | 793,688 |
| Pfizer Inc | 1,274,341 |
| Walmart Inc | 1,491,881 |
| Walt Disney Company | 936,339 |
| Subtotal Medium Term Notes | 17,501,435 |

Cash and Investment Summary

Month Ended November 30, 2019

Unrestricted Investments Continued

| U.S. Treasury Notes | |
|---|---------------|
| Treasury Note | \$50,365,990 |
| Subtotal U.S. Treasury Notes | \$50,365,990 |
| U.S. Government Sponsored Entities | |
| Fannie Mae Bank | 9,148,212 |
| Freddie Mac Bank | 7,999,957 |
| Federal Home Loan Bank | 3,907,950 |
| Subtotal U.S. Government Sponsored Entities | \$21,056,119 |
| Subtotal PFM Managed Investment Accounts | \$92,788,403 |
| Total Investments | \$135,014,508 |
| Restricted Deposits | |
| Investment Pool Accounts | |
| CAMP -Water Connection Reserves | \$17,603,000 |
| LAIF - Self Insurance Fund Reserves | 6,492,046 |
| Subtotal Investment Pool Accounts | \$24,095,046 |
| Debt Service | |
| 2008B Debt Service Accounts | \$2,623,507 |
| 2017A Debt Service Accounts | 562 |
| Subtotal Debt Service | \$2,624,069 |

Cash and Investment Summary

Month Ended November 30, 2019

Restricted Deposits Continued

| CCRA Deposits Held by Member Agencies | |
|--|-----------------|
| City of Chino | \$12,847,701 |
| Cucamonga Valley Water District | 11,514,585 |
| City of Fontana | 11,224,190 |
| City of Montclair | 3,111,788 |
| City of Ontario | 24,910,143 |
| City of Chino Hills | 6,511,776 |
| City of Upland | 4,922,504 |
| Subtotal CCRA Deposits Held by Member Agencies** | \$75,042,687 |
| **Total reported as of October 2019 | |
| CalPERS | |
| CERBT Account (OPEB) | \$17,973,671 |
| Subtotal CalPERS Accounts | \$17,973,671 |
| Escrow Deposits | |
| Stanek Construction | \$59,185_ |
| Subtotal Escrow Deposits | \$59,185 |
| Total Restricted Deposits | \$119,794,658 |
| Total Cash, Investments, and Restricted Deposits as of November 30, 2019 | \$254,945,694 |
| Total Gasii, Investments, and hesti teted Deposits as of November 50, 2017 | ΨΔΟΤ, /ΤΟ, Ο /Τ |
| Total Cash, Investments, and Restricted Deposits as of 11/30/19 | \$254,945,694 |
| Less: Total Cash, Investments, and Restricted Deposits as of 10/31/19 | 250,323,923 |
| Total Monthly Increase (Decrease) | \$4,621,771 |

Cash and Investment Summary Month Ended

| | Settlement | Security | Credit Rating | I | | | | | % | | |
|---|----------------------|--------------|---------------|------------------------------|------------------------------|--------------|------------------------------|----------------|----------------|----------------------|------------------------------|
| | Date | Length | @ Purchase | Par | Cost Basis | Term | November | % | Yield to | Maturity | Market |
| | | | S&P Moody's | Amount | Amount | (Days) | Value | Coupon | Maturity | Date | Value |
| Cash, Bank Deposits, and Bank Investment Accounts | | | | | | | | | | | |
| Citizens Business Bank (CBB) Demand Account Payroll Checking | | | | (\$81,760) 0 | (\$81,760) 0 | N/A N/A | (\$81,760) 0 | | N/A N/A | N/A N/A | (\$81,760) 0 |
| Workers' Compensation Account | | | | 41,551 | 41,551 | N/A | 41,551 | | N/A | N/A N/A | 41,551 |
| Subtotal CBB Accounts | | | | (\$40,209) | (\$40,209) | | (\$40,209) | | | | (\$40,209) |
| Bank of America (BofA) Payroll Checking Payroll Tax Checking | | | | \$0 0 | \$0 0 | N/A N/A | \$0 0 | | N/A N/A | N/A N/A | \$0 0 |
| Savings Account | | | | - | \$0 | N/A | - | | 0.000 | N/A N/A | - |
| Subtotal B of A Accounts | | | | \$0 | \$0 | | \$0 | | N/A | | \$0 |
| Bank of the West | | | | to. | 40 | NI / 4 | 40 | | 0.000/ | N7 / A | ėo. |
| Money Market Plus - Business Account Subtotal Bank of the West Account | | | | \$0 \$0 | \$0 \$0 | N/A | \$0 \$0 | | 0.00% | N/A | \$0 \$0 |
| US Bank (USB) | | | | | | | | | | | |
| Custodial Money Market (Investment Mgmt.) | | | | \$93,817 | \$93,817 | N/A | \$93,817 | | 1.21% | N/A | \$93,817 |
| Custodial Money Market (Debt Service) Subtotal USB Account | | | | 80,670 \$174,487 | 80,670 \$174,487 | N/A | 80,670 \$174,487 | | 1.21% 1.21% | N/A | 80,670 \$174,487 |
| | | | | \$2,250 | | NI /A | \$2,250 | | | NI / A | \$2,250 |
| Petty Cash | | | | \$2,250 | \$2,250 | N/A | \$2,250 | • | N/A | N/A | \$2,250 |
| Total Cash, Bank Deposits and Bank Investment Accounts | | | | \$136,528 | \$136,528 | - | \$136,528 | | | _ | \$136,528 |
| Investments | | | | | | | | | | | |
| CBB Daily Repurchase (Sweep) Accounts Freddie Mac Federal Home Loan Bank | | | | \$6,515,208 - | \$6,515,208 | N/A N/A | \$6,515,208 | | 0.90% | N/A N/A | \$6,515,208 - |
| Subtotal CBB Repurchase Accounts | | | | \$6,515,208 | \$6,515,208 | | \$6,515,208 | | 0.90% | | \$6,515,208 |
| LAIF Accounts Non-Restricted Funds | | | | \$20,792,356 | \$20,792,356 | N/A | \$20,792,356 | | 2.103% | N/A | \$20,792,356 |
| Subtotal LAIF Accounts | | | | \$20,792,356 | \$20,792,356 | N/A | \$20,792,356 | • | 2.103% | N/A | \$20,792,356 |
| CALTRUST Accounts | | | | | | | | | | | |
| Short-Term | | | | \$0 | \$0 | N/A | \$0 | | | N/A | \$0 |
| Medium-Term (Self Insurance Reserves) Subtotal CalTrust Accounts | | | | 0 \$0 | 0 \$0 | N/A | 0 \$0 | • | | N/A | 0 \$0 |
| Certificates of Deposit | | | | \$0 | ΨΟ | | ΨΟ | | | | Ψ0 |
| CBB Certificate of Deposit | | | | | \$0 | _ | \$0 | | | | \$0 |
| Subtotal Certificate of Deposits | | | | \$0 | \$0 | | \$0 | | 0.00% | | \$0 |
| CAMP Accounts | | | | ****** | **** | | ******* | | 4.000/ | | ***** |
| Non-Restricted Funds Subtotal CAMP Accounts | | | | \$14,918,541 \$14,918,541 | \$14,918,541 \$14,918,541 | N/A | \$14,918,541 \$14,918,541 | | 1.88% | N/A | \$14,918,541 \$14,918,541 |
| Subtotal Agency Managed Investment Accounts | | | | \$42,226,105 | \$42,226,105 | - | \$42,226,105 | | 1.84% | | \$42,226,105 |
| | | | | Ψ12,220,103 | Ψ1220,103 | - | Ψ12,220,103 | • | 1.07/0 | | ψ12,220,103 |
| Brokered Certificates of Deposit (CDs) Bank of Nova Scotia Houston | 06/07/18 | 718 | A-1 P-1 | \$1,410,000 | \$1,409,464 | 729 | \$1,409,859 | 3.08% | 3.10% | 06/05/20 | \$1,420,644 |
| Bank of Montreal Chicago | 08/03/18 | 720 | A-1 P-1 | 1,400,000 | 1,400,000 | 731 | 1,400,000 | 3.19% | 3.23% | 08/03/20 | 1,411,603 |
| Sychrony Bank Royal Bank of Canada NY | 10/02/15 06/08/18 | 1800 1079 | , , | 240,000 815,000 | 240,000 815,000 | 1827 1095 | 240,000 815,000 | 2.25% 3.24% | 2.25% 3.24% | 10/02/20 06/07/21 | 241,321 834,613 |
| Subtotal Brokered CDs | 00/00/10 | 10/9 | III Aaz | \$3,865,000 | \$3,864,464 | 1073 | \$3,864,859 | 5.27/0 | 3.12% | _ 00,07,21 | \$3,908,181 |
| Subtotal District GDS | | | | ψ3,003,000 | ψ3,001,707 | | ψ3,001,037 | | 3.12/0 | | ψ3,700,101 |

Cash and Investment Summary Month Ended

| | Cottlor | Committee I | Cuadit D- | na I | | 1 | T | | | | |
|---|----------------------|--------------------|------------------------|----------------------------|---------------|--------------|--------------------|------------------|----------------------|----------------------|------------------------|
| | Settlement Date | Security Length | Credit Rat @ Purcha | | Cost Basis | Term | November | % | % | Maturity | Market |
| | | | S&P Mo | | Amount | (Days) | Value | Coupon | Yield to Maturity | Date | Value |
| Investments (continued) | · | | | | | | | | | | |
| US Treasury Note | | | | | | | | | | | |
| US Treasury Note | 04/18/18 | | | aa \$2,195,00 | | 819 | | 1.500% | 2.46% | 07/15/20 | \$2,192,770 |
| US Treasury Note | 04/18/18 | 1003 | | aa 2,225,00 | | 1019 | | 2.125% | 2.53% | 01/31/21 | 2,236,038 |
| US Treasury Note | 01/24/19 | 741 | | aa 1,900,00 | | 753 | | 2.250% | 2.59% | 02/15/21 | 1,912,320 |
| US Treasury Note | 03/15/19 | 825 | | aa 2,781,00 | | 838 | | 2.125% | 2.45% | 06/30/21 | 2,800,770 |
| US Treasury Note | 04/17/18 | 1184 | | aa 2,615,00 | | 1201 | | 2.250% | 2.57% | 07/31/21 | 2,639,516 |
| US Treasury Note | 07/17/18 | 1184 | | aa 580,00 | | 1202 | | 2.000% | 2.69% | 10/31/21 | 583,897 |
| US Treasury Note | 04/17/18 | 1303 | | aa 2,555,00 | | 1323 | | 1.750% | 2.60% | 11/30/21 | 2,560,790 |
| US Treasury Note | 04/25/18 | 1416 | | aa 2,500,00 | | 1436 | | 1.875% | 2.75% | 03/31/22 | 2,514,648 |
| US Treasury Note | 08/03/18 | 1318 | | aa 3,070,00 | | 1336 | -,, | 1.875% | 2.82% | 03/31/22 | 3,087,987 |
| US Treasury Note | 09/06/18 | 1285 | | aa 3,790,00 | | 1302 | | 1.875% | 2.75% | 03/31/22 | 3,812,206 |
| US Treasury Note | 04/17/18 | 1453 1435 | | aa 1,605,00 | | 1474 1456 | | 1.875% 1.750% | 2.64% | 04/30/22 | 1,614,718 |
| US Treasury Note | 07/05/18 | 1554 | | aa 1,300,00 | | 1577 | | 1.750% | 2.72% | 06/30/22 | 1,305,179 |
| US Treasury Note US Treasury Note | 06/06/18 05/04/18 | 1617 | | aa 2,065,00 aa 1,600,00 | | 1641 | | 2.000% | 2.76% 2.80% | 09/30/22 10/31/22 | 2,073,308 1,617,875 |
| US Treasury Note | 10/04/18 | 1557 | | aa 1,040,00 | | 1580 | | 1.750% | 2.93% | 01/31/23 | 1,017,875 |
| US Treasury Note | 04/17/18 | 1751 | | aa 1,040,00 | | 1778 | | 1.500% | 2.69% | 02/28/23 | 303,975 |
| US Treasury Note | 07/05/18 | 1673 | | aa 1,275,00 | · | 1699 | | 1.500% | 2.74% | 02/28/23 | 1,270,717 |
| US Treasury Note | 02/12/19 | 1489 | | aa 1,235,00 | | 1508 | | 1.500% | 2.44% | 03/31/23 | 1,230,803 |
| US Treasury Note | 01/24/19 | 1596 | | aa 2,000,00 | | 1618 | | 1.38% | 2.58% | 06/30/23 | 1,983,984 |
| US Treasury Note | 02/12/19 | 1609 | | aa 1,260,00 | | 1630 | | 1.25% | 2.44% | 07/31/23 | 1,243,857 |
| US Treasury Note | 05/03/19 | 1587 | | aa 650,00 | | 1611 | | 2.88% | 2.25% | 09/30/23 | 680,113 |
| US Treasury Note | 03/08/19 | 1687 | | aa 3,450,00 | | 1713 | | 2.75% | 2.52% | 11/15/23 | 3,597,701 |
| US Treasury Note | 01/09/19 | 1761 | | aa 2,525,00 | | 1786 | | 2.13% | 2.52% | 11/30/23 | 2,574,119 |
| US Treasury Note | 01/31/19 | 1770 | | aa 120,00 | | 1795 | | 2.63% | 2.56% | 12/31/23 | 124,716 |
| US Treasury Note | 06/04/19 | 1766 | | aa 2,345,00 | | 1792 | | 2.00% | 1.90% | 04/30/24 | 2,381,823 |
| US Treasury Note | 07/03/19 | 1797 | | aa 575,00 | | 1824 | | 2.00% | 1.78% | 06/30/24 | 584,209 |
| US Treasury Note | 08/09/19 | 1792 | | aa 1,000,00 | · | 1818 | | 2.13% | 1.78% | 07/31/24 | 1,021,953 |
| US Treasury Note | 10/03/19 | 1797 | | aa 1,310,00 | | 1824 | ,, | 2.13% | 1.50% | 09/30/24 | 1,339,475 |
| US Treasury Note | 11/05/19 | 1796 | | aa \$1,100,00 | | 1822 | | 2.25% | 1.57% | 10/31/24 | \$1,131,797 |
| Subtotal US Treasuries | / **/ | | | \$50,971,00 | | _ | \$50,365,990 | - | 2.51% | ,, | \$51,465,733 |
| | | | | , , . , | , , , | | , , , | | | | , , , , , , |
| Corporate Medium Term Notes | | | | | | | | | | | |
| U.S. Government Sponsored Entities | | | | | | | | | | | |
| Federal Home Loan Bank | 04/18/18 | 702 | AA+ A | aa 950,00 | 00 948,328 | 712 | 949,712 | 2.38% | 2.47% | 03/30/20 | 952,025 |
| Freddie Mac Bond | 04/17/18 | 1019 | AA+ A | aa 2,500,00 | 00 2,485,350 | 1,036 | 2,493,638 | 2.38% | 2.59% | 02/16/21 | 2,522,300 |
| Freddie Mac Bond | 04/25/18 | 1011 | | aa 2,550,00 | | 1,028 | 2,540,356 | 2.38% | 2.70% | 02/16/21 | 2,572,746 |
| Fannie Mae Bond | 04/17/18 | 1076 | | aa 2,510,00 | | 1,092 | 2,506,582 | 2.50% | 2.60% | 04/13/21 | 2,539,598 |
| Federal Home Loan Bank | 01/24/19 | 978 | | aa 1,865,00 | | 992 | 1,877,318 | 3.00% | 2.63% | 10/12/21 | 1,911,306 |
| Fannie Mae Bond | 01/11/19 | 1080 | | aa 795,00 | | 1,096 | 794,593 | 2.63% | 2.65% | 01/11/22 | 810,894 |
| Freddie Mac Bond | 08/26/19 | 1080 | | aa 1,520,00 | · | 1,096 | 1,520,000 | 2.05% | 2.05% | 08/26/22 | 1,520,801 |
| Fannie Mae Bond | 09/06/19 | 1080 | | aa 890,00 | | 1,096 | 887,142 | 1.38% | 1.49% | 09/06/22 | 883,746 |
| Fannie Mae Bond | 04/17/18 | 1608 | | aa 1,655,00 | · | 1,632 | 1,621,613 | 2.00% | 2.74% | 10/05/22 | 1,674,599 |
| Freddie Mac Bond | 07/05/18 | 1784 | | aa 1,450,00 | | 1,810 | 1,445,963 | 2.75% | 2.83% | 06/19/23 | 1,505,647 |
| Fannie Mae Bond | 12/06/18 | 1716 | | aa 1,450,00 | | 1,741 | 853,628 | 2.88% | 2.92% | 09/12/23 | 892,918 |
| Fannie Mae Bond | 11/05/18 | 1716 | | aa 1,820,00 | | 1,772 | 1,806,793 | 2.88% | 3.08% | 09/12/23 | 1,900,713 |
| Fannie Mae Bond Federal Home Loan Bank | 01/31/19 | 1747 | | aa 1,820,00 aa 870,00 | | 1,772 | 891,491 | 3.38% | 2.72% | 12/08/23 | 927,157 |
| Fannie Mae Bond | , , | | | · | · | 1,772 | | | 2.72% | , , | |
| | 02/08/19 | 1797 1798 | | aa 680,00 aa 190,00 | · | 1,823 | 677,861 189,429 | 2.50% 2.50% | 2.58% | 02/05/24 02/13/24 | 702,191 196,308 |
| Federal Home Loan Bank | 02/15/19 | 1/98 | nn+ P | | · · | _ | | 4.50% | | 02/13/24 | |
| Subtotal U.S. Gov't Sponsored Entities | | | | 21,100,00 | 00 21,015,516 | | 21,056,119 | | 2.61% | | \$21,512,949 |

Cash and Investment Summary Month Ended

| | Settlement | Security | Credi | t Rating | | | | | 1 | 0/ | 1 1 | |
|--|------------|----------|-------|----------|---------------|---------------|--------|---------------|--------|---------------|----------|---------------|
| | Date | Length | | ırchase | Par | Cost Basis | Term | November | % | % Yield to | Maturity | Market |
| | | | S&P | Moody's | Amount | Amount | (Days) | Value | Coupon | Maturity | Date | Value |
| Investments (continued) | | | | | | | | | | | | |
| Medium Term Notes | | | | | | | | | | | | |
| UPS of America Inc | 04/18/18 | 703 | Α | A2 | \$725,000 | \$802,046 | 714 | \$738,416 | 8.38% | 2.75% | 04/01/20 | \$740,155 |
| Toyota Motor | 01/08/19 | 720 | AA- | Aa3 | 200,000 | 199,880 | 731 | 199,933 | 3.05% | 3.08% | 01/08/21 | 202,573 |
| Hershey Company | 05/10/18 | 1085 | Α | A1 | 335,000 | 334,769 | 1101 | 334,885 | 3.10% | 3.12% | 05/15/21 | 340,685 |
| American Honda Finance | 04/18/18 | 1164 | Α | A2 | 800,000 | 767,016 | 1181 | 783,153 | 1.65% | 3.00% | 07/12/21 | 797,116 |
| Toyota Motor | 04/27/18 | 1334 | AA- | Aa3 | 1,000,000 | 978,790 | 1355 | 987,629 | 2.60% | 3.21% | 01/11/22 | 1,014,373 |
| Bank of NY Mellon | 04/18/18 | 1369 | Α | A1 | 1,400,000 | 1,371,048 | 1391 | 1,382,981 | 2.60% | 3.18% | 02/07/22 | 1,419,615 |
| American Express | 04/18/18 | 1395 | A- | A2 | 800,000 | 785,488 | 1415 | 791,350 | 2.70% | 3.20% | 03/03/22 | 812,709 |
| Walt Disney Company | 04/18/18 | 1396 | Α | A2 | 815,000 | 798,692 | 1416 | 805,286 | 2.45% | 3.00% | 03/04/22 | 827,889 |
| Paccar Financial Corp | 05/10/19 | 1080 | A+ | A1 | 930,000 | 929,498 | 1096 | 929,588 | 2.65% | 2.67% | 05/10/22 | 946,268 |
| Visa Inc | 04/18/18 | 1587 | AA- | Aa3 | 825,000 | 795,407 | 1611 | 805,839 | 2.15% | 3.03% | 09/15/22 | 832,840 |
| Bank of America | 04/18/18 | 1623 | A- | A2 | 800,000 | 769,264 | 1647 | 779,772 | 2.50% | 3.43% | 10/21/22 | 806,866 |
| Oracle Corp | 04/19/18 | 1736 | A+ | A1 | 1,420,000 | 1,389,001 | 1763 | 1,398,912 | 2.63% | 3.11% | 02/15/23 | 1,447,674 |
| Amazon Inc | 04/15/19 | 1387 | AA- | A3 | 935,000 | 925,996 | 1774 | 927,416 | 2.40% | 2.66% | 02/22/23 | 950,045 |
| Burlington North Santa Fe Corp | 04/18/18 | 1767 | A+ | A3 | 800,000 | 790,800 | 1792 | 793,688 | 3.00% | 3.26% | 03/15/23 | 822,561 |
| Bank of NY Mellon | 01/24/19 | 1534 | Α | A1 | 1,375,000 | 1,387,595 | 1555 | 1,385,249 | 3.50% | 3.27% | 04/28/23 | 1,440,762 |
| UnitedHealth Group Inc | 10/24/19 | 1311 | A+ | A3 | 720,000 | 755,741 | 1330 | 754,777 | 3.50% | 2.08% | 06/15/23 | 753,743 |
| Pfizer Inc | 04/04/19 | 1781 | AA- | A1 | 1,260,000 | 1,276,392 | 1807 | 1,274,341 | 2.95% | 2.67% | 03/15/24 | 1,310,217 |
| Walmart Inc | 09/05/19 | 1743 | AA | Aa2 | 1,425,000 | 1,495,196 | 1768 | 1,491,881 | 2.85% | 1.78% | 07/08/24 | 1,477,469 |
| Walt Disney Company | 09/06/19 | 1794 | Α | A2 | 940,000 | 936,165 | 1820 | 936,339 | 1.75% | 1.84% | 08/30/24 | 930,938 |
| Subtotal Medium Term Notes | | | | - | \$17,505,000 | \$17,488,784 | | \$17,501,435 | - | 2.83% | | \$17,874,498 |
| Subtotal PFM Managed Investment Accounts | | | | - | \$93,441,000 | \$92,368,892 | | \$92,788,403 | - | 2.62% | | \$94,761,361 |
| Total Investments | | | | | \$135,667,105 | \$134,594,997 | | \$135,014,508 | | | | \$136,987,466 |
| (Source of Investment Amortized Cost: PFM) | | | | - | 4-00,000, | 4-0-70-170-1 | | ,,,, | - | | - | 4200,000,000 |
| Restricted Deposits | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Investment Pool Accounts | | | | | | | | | | | | |
| CAMP - Water Connection Reserves | | | | | \$17,603,000 | \$17,603,000 | N/A | \$17,603,000 | | 1.88% | N/A | \$17,603,000 |
| LAIF - Self Insurance Reserves | | | | - | 6,492,046 | 6,492,046 | N/A | 6,492,046 | _ | 2.10% | N/A | 6,492,046 |
| Total Investment Pool Accounts | | | | - | 24,095,046 | 24,095,046 | | 24,095,046 | - | 1.94% | | 24,095,046 |
| Debt Service and Arbitrage Accounts | | | | | | | | | | | | |
| 2008B Debt Service Accounts | | | | | \$2,623,507 | \$2,623,507 | N/A | \$2,623,507 | | 1.13% | | \$2,623,507 |
| 2017A Debt Service Accounts | | | | | 562 | 562 | N/A | 562 | | 0.15% | | 562 |
| | | | | - | | | 11/11 | | - | | | |
| Total Debt Service Accounts | | | | - | \$2,624,069 | \$2,624,069 | | \$2,624,069 | = | 1.13% | | \$2,624,069 |

Cash and Investment Summary Month Ended

| Se | ettlement Date | Security Length | | t Rating irchase | Par | Cost Basis | Term | November | % | % Yield to | Maturity | Market |
|---|-------------------|--------------------|-----|---------------------|---------------|---------------|--------|---------------|--------|---------------|----------|---------------|
| | | | S&P | Moody's | Amount | Amount | (Days) | Value | Coupon | Maturity | Date | Value |
| Restricted Deposits (continued) | | | | | | | | | | | | |
| CCRA Deposits Held by Member Agencies | | | | | | | | | | | | |
| City of Chino | | | | | \$12,847,701 | \$12,847,701 | N/A | \$12,847,701 | | N/A | N/A | \$12,847,701 |
| City of Chino Hills | | | | | 6,511,776 | 6,511,776 | N/A | 6,511,776 | | N/A | N/A | 6,511,776 |
| Cucamonga Valley Water District | | | | | 11,514,585 | 11,514,585 | N/A | 11,514,585 | | N/A | N/A | 11,514,585 |
| City of Fontana | | | | | 11,224,190 | 11,224,190 | N/A | 11,224,190 | | N/A | N/A | 11,224,190 |
| City of Montclair | | | | | 3,111,788 | 3,111,788 | N/A | 3,111,788 | | N/A | N/A | 3,111,788 |
| City of Ontario | | | | | 24,910,143 | 24,910,143 | N/A | 24,910,143 | | N/A | N/A | 24,910,143 |
| City of Upland | | | | _ | 4,922,504 | 4,922,504 | N/A | 4,922,504 | | N/A | N/A | 4,922,504 |
| Subtotal CCRA Deposits Held by Member Agencies** | | | | | \$75,042,687 | \$75,042,687 | | \$75,042,687 | | | | \$75,042,687 |
| **Total reported as of October 2019 | | | | | | | | | | | | |
| CalPERS Deposits | | | | | | | | | | | | |
| CERBT Account (OPEB) | | | | | \$15,000,000 | \$15,000,000 | N/A | \$17,973,671 | | N/A | N/A | \$17,973,671 |
| Subtotal CalPERS Deposits | | | | _ | \$15,000,000 | \$15,000,000 | | \$17,973,671 | | • | · · | \$17,973,671 |
| CERBT Strategy 2 Performance as of September 30, 2019 based on 1 Year Net | Return was 7 | .61%. | | | | | | | | | | |
| Escrow Deposits | | | | | | | | | | | | |
| Stanek Contractors Escrow | | | | _ | \$59,185 | \$59,185 | N/A | \$59,185 | | N/A | N/A | \$59,185 |
| Subtotal Escrow Deposits | | | | - | \$59,185 | \$59,185 | | \$59,185 | • | | | \$59,185 |
| Total Restricted Deposits | | | | - | \$116,820,987 | \$116,820,987 | • | \$119,794,658 | · | | | \$119,794,658 |
| Total Cash, Investments, and Restricted Deposits as of November | 30, 2019 | | | = | \$252,624,620 | \$251,552,512 | i: | \$254,945,694 | i | | | \$256,918,652 |

INLAND EMPIRE UTILITIES AGENCY Cash and Investment Summary

Month Ended November 30, 2019

November Purchases

| | | | | | Par Amount | Investment | | | | | | |
|---|----------|-------------|---------------------------------|---------------|--------------|-------------------|--|--|--|--|--|--|
| No. | Date | Transaction | Investment Security | Type | Purchased | Yield to Maturity | | | | | | |
| 1 | 11/05/19 | Purchase | US Treasury Note | Treasury Bond | \$1,100,000 | 2.25% | | | | | | |
| | | | | | \$ 1,100,000 | | | | | | | |
| | | | | | | • | | | | | | |
| | | | | | | | | | | | | |
| November Investment Maturities, Calls & Sales | | | | | | | | | | | | |
| | | | | | Par Amount | Investment | | | | | | |
| No. | Date | Transaction | Investment Security | Туре | Matured/Sold | Yield to Maturity | | | | | | |
| 1 | 11/10/19 | Sell | Federal Home Loan Banks Notes | Bond | \$800,000 | 2.38% | | | | | | |
| | | | Total Maturities, Calls & Sales | | \$ 800,000 | • | | | | | | |

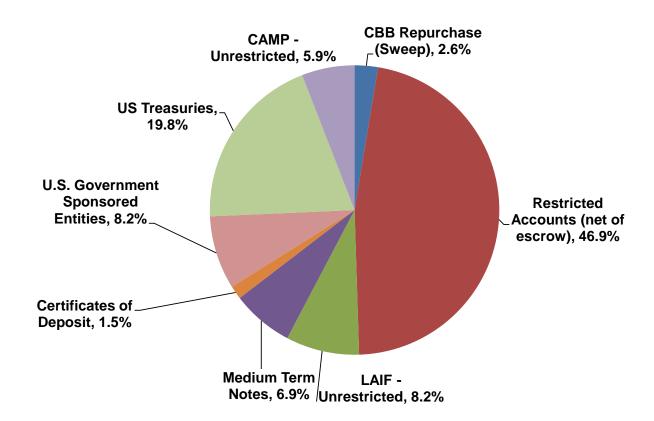
Cash and Investment Summary

Month Ended November 30, 2019

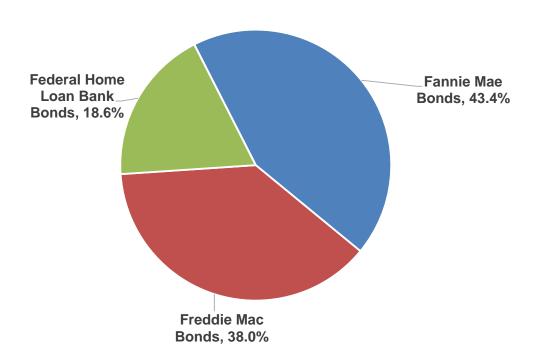
| <u>Directed Investment Category</u> | Amount Invested | Yield |
|--|-----------------|--------|
| CBB Repurchase (Sweep) | \$6,515,208 | 0.900% |
| LAIF - Unrestricted | 20,792,356 | 2.103% |
| CAMP - Unrestricted | 14,918,541 | 1.880% |
| Brokered Certificates of Deposit | 3,864,859 | 3.124% |
| Medium Term Notes | 17,501,435 | 2.833% |
| US Treasury Notes | 50,365,990 | 2.511% |
| U.S. Government Sponsored Entities | 21,056,119 | 2.608% |
| Total Investment Portfolio | \$135,014,508 | |
| Investment Portfolio Rate of Return | | 2.375% |
| Restricted/Transitory/Other Accounts | Amount Invested | Yield |
| CCRA Deposits Held by Member Agencies | \$75,042,687 | N/A |
| CalPERS OPEB (CERBT) Account | 17,973,671 | N/A |
| CAMP Restricted Water Connection Reserve | 17,603,000 | 1.880% |
| LAIF Restricted Insurance Reserve | 6,492,046 | 2.103% |
| US Bank - 2008B Debt Service Accounts | 2,623,507 | 1.130% |
| US Bank - 2017A Debt Service Accounts | 562 | 0.150% |
| US Bank - Pre-Investment Money Market Account | 174,487 | 1.210% |
| Citizens Business Bank - Demand Account | (81,760) | N/A |
| Citizens Business Bank - Workers' Compensation Account | 41,551 | N/A |
| Other Accounts* | 2,250 | N/A |
| Escrow Account | 59,185 | N/A |
| Total Restricted/Transitory/Other Accounts | \$119,931,186 | |
| Average Yield of Other Accounts | | 1.856% |
| Total Agency Directed Deposits | \$254,945,694 | |

^{*}Petty Cash

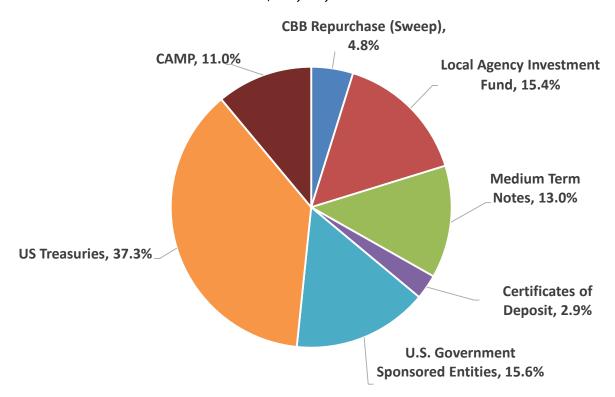
Month Ended November 30, 2019
Agency Investment Portfolio (Net of Escrow Accounts)
\$254,886,509



Month Ended November 30, 2019
U.S. Government Sponsored Entities Portfolio
\$21,056,119



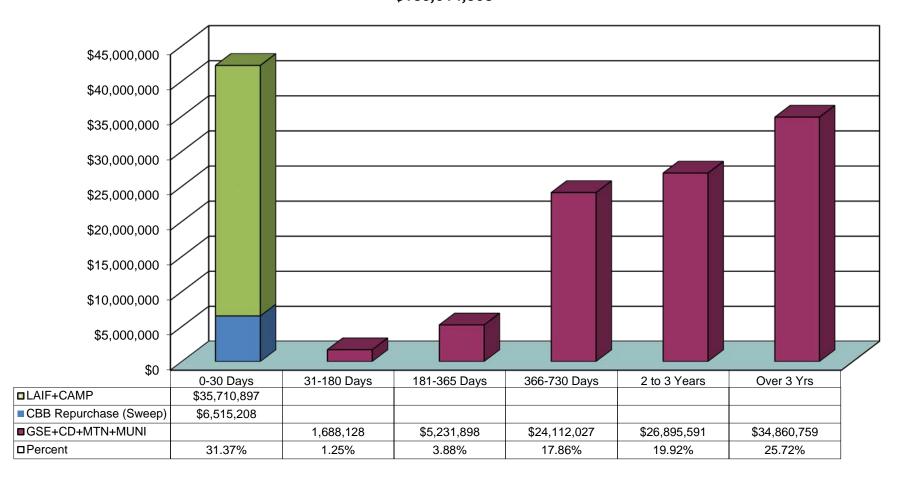
Month Ended November 30, 2019 Unrestricted Agency Investment Portfolio \$135,014,508



Month Ended November 30, 2019

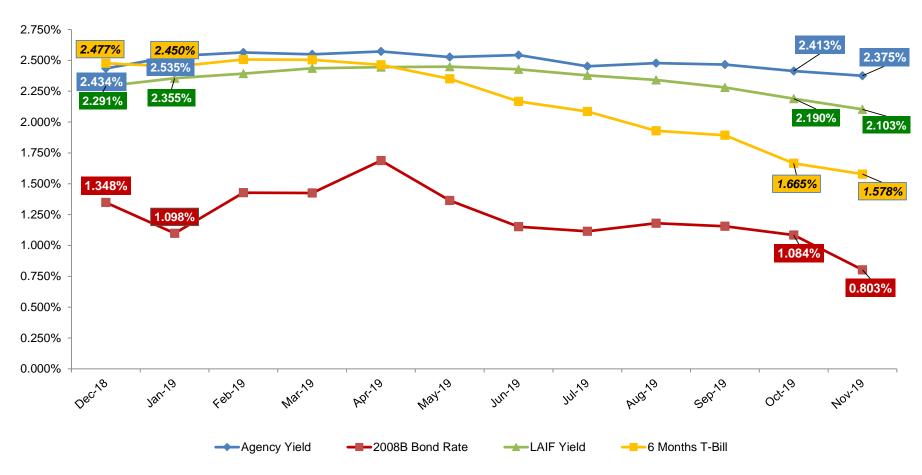
Agency Investment Portfolio Maturity Distribution (Unrestricted)

\$135,014,508



Inland Empire Utilities Agency Treasurer's Report of Financial Affairs Month Ended November 30, 2019

Month Ended November 30, 2019
Agency Investment Portfolio Yield Comparison



INFORMATION ITEM

41



Date: July 15, 2020

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

Committee: Community & Legislative Affairs 07/08/20

Executive Contact: Kathy Besser, Executive Manager of Ext. Aff. & Policy Dev./AGM

Subject: Public Outreach and Communication

Executive Summary:

- July, Smart Irrigation Month
- July 26, National Intern Day

On June 25, staff coordinated a virtual RP-5 tour for Cucamonga Valley Water District Board Member Kevin Kenley and his boy scout troop. During the virtual tour, the RP-5 video was shown to provide an overview of the facility and the wastewater treatment process. General Manager Shivaji Deshmukh welcomed Director Kenley and the scout troop. Jesse Pompa, Manager of Grants, participated by leading the Q&A discussion and Justin King, Wastewater Operator III, provided on-site, real-time visuals and explanations of the treatment plant processes for the scouts. The scouts are working on completing requirements to earn their soil and water conservation badge.

Staff hosted online voting for the Water is Life Poster Contest, which concluded on June 16. The top three winners from each category will be sent to MWD to be entered into their regional contest.

Staff's Recommendation:

This is an informational item for the Board of Directors to receive and file.

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

Fiscal Impact (explain if not budgeted):

| Pri | ۸r | Ro | ard | Δ | cti | nn• |
|-----|----|----|------|---|-----|------|
| | vı | DU | aı u | | | ,,,, |

N/A

Environmental Determination:

Not Applicable

Business Goal:

IEUA is committed to providing a reliable and cost-effective water supply and promoting sustainable water use throughout the region.

IEUA is committed to enhancing and promoting environmental sustainability and the preservation of the region's heritage.

Attachments:

Attachment 1 - Background

Board-Rec No.: 20164



Background

Subject: Public Outreach and Communication

July

- July, Smart Irrigation Month
- July 26, National Intern Day
- July 28, World Nature Conservation Day

August

• August 1, National Water Quality Month Begins

Media and Outreach

- On June 25, staff coordinated a virtual RP-5 tour for Cucamonga Valley Water District Board Member Kevin Kenley and his boy scout troop. During the virtual tour, the RP-5 video was shown to provide an overview of the facility and the wastewater treatment process. General Manager Shivaji Deshmukh welcomed Director Kenley and the scout troop. Jesse Pompa, Manager of Grants, participated by leading the Q&A discussion and Justin King, Wastewater Operator III, provided on-site, real-time visuals and explanations of the treatment plant processes for the scouts. The scouts are working on completing requirements to earn their soil and water conservation badge.
- The Agency continues to remind the public of what can/cannot be flushed down the toilet through social media posts and videos.
- Staff is currently working on implementing a "Guess the Animal" feature on the Chino Creek Wetlands and Educational Park Instagram page.
- The Agency recognized World Oceans Day and World Environment Day on social media for the month of June.
- The Agency recognized June as Great Outdoors Month by highlighting features of the Chino Creek Wetlands and Educational Park on the Chino Creek Wetlands Instagram page.
- The Agency celebrated 70 years of service to the region through a series of posts featuring the past and present of IEUA. The celebration wrapped up with a video to highlight the Agency's history, innovation and community service to the region.
 - o The Agency's 70th Anniversary video received more than 1,200 impressions and was viewed over 800 times across all social media platforms.
- The Agency recognized the first day of summer and promoted water saving practices for the summer.
- The *How to draw Owlie the Owl* video became the second highest viewed video on the Agency's Instagram account, generating 240 views.
- The Agency highlighted philanthropic efforts made by IEUA staff who organized a virtual walk-a-thon and raised \$2,854 for Meals-on-Wheels.
- June: 14 posts were published to the IEUA Facebook page, 14 posts were published to IEUA's Instagram and 13 tweets were sent on the @IEUAwater Twitter handle.

- o The top three Facebook posts, based on reach and engagement, in the month of June were:
 - 6/6 70th Anniversary Video
 - 6/9 IEUA Hiring: Board Secretary/Office Manager
 - 6/3 70th Anniversary Expansion
- The top three tweets, based on reach and engagement, in the month of June were:
 - 6/17 Water Word Wednesday "Springs"
 - 6/3 70th Anniversary Expansion
 - 6/4 70th Anniversary Carbon Canyon Recycling Facility
- The top three Instagram posts, based on reach and engagement, in the month of June were:
 - 6/3 70th Anniversary Expansion
 - 6/1 News Release: IEUA Receives Loan from U.S. EPA
 - 6/9 IEUA Hiring: Board Secretary/Office Manager
- A Water Discovery Education ad ran in the *Daily Bulletin* on June 14.
- A Water Discovery Education ad ran in the *Fontana Herald* on June 19.
- A Kick the Habit ad ran in the Chino Valley Champion's Chino Connection Magazine section on June 20.
- A Kick the Habit ad ran in La Opinion on June 21.
- A Don't Flush Wipes ad ran in the *Daily Bulletin* on June 28.
- The Kick the Habit digital banner ad continues to run in the Fontana Herald News.

For the month of June, there were 1,303 searches for a park in IEUA's service area on Yelp, where Chino Creek Wetlands and Educational Park was viewed 1,223 times on a mobile device.

Education and Outreach Updates

- The Water Discovery Program reached 1,669 students and 33 schools during the 2019/2020 current school year. As of March 12, the Water Discovery field trip program has been put on hold. Currently, staff is working on "At-Home Activities" for the Agency's education programs, which continue to be posted on the website and social media.
- Staff is finalizing a virtual summer program education guide as well as a virtual scout "fun" badge program.
- Participating Garden in Every School® sites have been placed on hold until fall.
- Staff hosted online voting for the *Water is Life* Poster Contest, which concluded on June 16. The top three winners from each category will be sent to MWD to be entered into their regional contest.
- Solar Cup 2.0 virtual challenges are complete. MWD will announce recognitions in July.

INFORMATION ITEM

4J



June 25, 2020

To: Inland Empire Utilties Agency

From: Michael Boccadoro

Beth Olhasso Maddie Munson

RE: June Report

Overview:

With summer in full swing, carryover storage in California's reservoirs is holding just below average after dismal precipitation and snowpack this winter. San Luis Reservoir, the main south-of-Delta storage facility for the State Water Project, is at 83 percent of average and 56 percent capacity for this time of the year. Oroville is at 77 percent of average and 64 percent capacity.

The U.S. can deliver 90% of its electricity from carbon-free sources by 2035, according to a new report from UC Berkeley. Most policy proposals for near-complete decarbonization target a 2050 deadline, according to the Berkeley report, but the falling costs of solar, wind and battery storage makes a 90% carbon-free grid by 2035 feasible.

After the latest dismal Cap and Trade auction, the Legislative Analyst's Office issued a report suggesting that the legislature reconsider the continuous appropriations and discretionary spending in the state's Greenhouse Gas Reduction Fund (GGRF). 60 percent of the funds are automatically allocated to high speed rail, housing and other transportation measures. A change in this funding formula could open up significantly more funding to other water-energy-climate nexus projects, perhaps.

Legislation is circulating in the Capitol that would require the California Air Resources Board to open a rulemaking to consider changes to the program. According to the proponents, the program, as it currently operates, is overly generous to the fossil fuel industry and other special interests. They claim that the "pollution caps are too high, the auction prices are too low, and the program doesn't work." Any lowering of the cap or increase in allowance prices could increase IEUA's electricity and natural gas costs significantly.

Also affecting natural gas prices are efforts to close the Aliso Canyon natural gas storage facility. Environmentalists and activists have been trying to close the facility since the massive leak in late 2015. Governor Newsom has continued former Governor Brown's efforts to close the facility, but regulators are struggling to reconcile the gas needs of Southern California with available supplies, conveyance and storage, while trying to create a plan to close the facility.

The State Water Resources Control Board (SWRCB) has been busy lately on several fronts. The Board finalized a definition of "microplastics" that will be used to further study how to effectively prevent microplastics from entering the environment. Additionally, they adopted the Intended Use Plan for the Clean and Drinking Water State Revolving Fund. The IUP drew sharp criticism for using a new model to calculate the amount of funding available. The model is "proprietary" at this time and stakeholders are frustrated with the significant declines in available loan funding. Finally, the Board is looking to get information on the impacts of the COVID crisis on water agency budgets. Their good intentions are

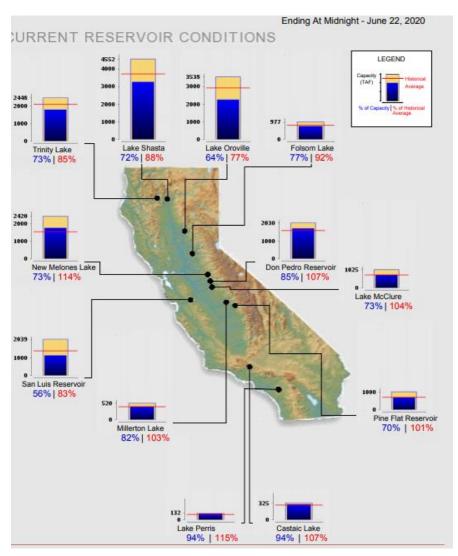
lauded, but there are significant concerns about what is going to be done with the information provided, especially with information on special district reserves.

The Legislature has been working on their significantly reduced legislative packages while also grappling with passing a budget during a time of uncertain revenue, uncertain help from the federal government, and shifting policy priorities. While the health care, welfare and education communities are facing the brunt of the budget cuts, state workers have agreed to two furlough days per month. This could cause some delay of regulations, especially in the recycled water sector, where they are already struggling with staffing at the SWRCB.

Inland Empire Utilities Agency Status Report – June 2020

Water Supply Conditions

With summer in full swing, carryover storage in California's reservoirs is holding firm after dismal precipitation and snowpack this winter. San Luis Reservoir, the main south-of-Delta storage facility for the State Water Project, is at 83 percent of average and 56 percent capacity for this time of the year. Oroville is at 77 percent of average and 64 percent capacity.



(Released Thursday, Jun. 25, 2020) California Valid 8 a.m. EDT Drought Conditions (Percent Area) None D0-D4 D1-D4 D2-D4 D3-D4 58.21 46.74 20.84 2.45 Current 41.79 0.00 Last Week 46.74 2.45 0.00 41.79 58.21 20.84 3 Months Ago 24.86 75 14 40.42 1.30 0.00 0.00 Start of 96.43 3.57 0.00 0.00 0.00 0.00 Calendar Year Start of 95.29 4.71 2.06 0.00 0.00 0.00 Water Year One Year Ago 95 68 4.32 0.00 0.00 0.00 0.00 06-25-2019 Intensity: None D2 Severe Drought D0 Abnormally Dry D3 Extreme Drought D1 Moderate Drought D4 Exceptional Drought The Drought Monitor focuses on broad-scale conditions Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx Author: Adam Hartman NOAA/NWS/NCEP/CPC

June 23, 2020

droughtmonitor.unl.edu

U.S. Drought Monitor

New UC Berkeley Study Claims U.S. Can Deliver 90 Percent of Renewables from Carbon-Free Sources by 2035

The U.S. can deliver 90% of its electricity from carbon-free sources by 2035, according to a new report from UC Berkeley.

Most policy proposals for near-complete decarbonization target a 2050 deadline, according to the Berkeley report, but the falling costs of solar, wind and battery storage makes a 90% carbon-free grid by 2035 feasible.

Achieving that target will require retiring all coal plants by 2035 without building more fossil fuel plants, retaining existing hydropower and nuclear capacity, and reducing generation from natural gas plants to 10% of total annual electricity generation.

Within that mix, renewables and battery storage will provide 70% of annual generation, while hydropower and nuclear will provide another 20%. This portfolio will reduce wholesale electricity costs by about 10% by 2035, according to the report.

Building out renewables to achieve this target will add more than 500,000 jobs per year as well as \$1.7 trillion in investments into the economy, without raising customer bills, the report found.

The country is experiencing a cost-crossover, as clean energy resources become cheaper than continuing to run existing fossil fuel resources according to the report.

Legislative Analyst Office Recommends Reprioritizing GGRF Funds

After the latest dismal Cap and Trade auction, the Legislative Analyst's Office issued a report suggesting that the legislature consider the continuous appropriations and discretionary spending in the state's Greenhouse Gas Reduction Fund (GGRF).

Currently, about 60 percent GGRF funds must be appropriated to four different areas; 25 percent for high-speed rail; 20 percent for affordable housing and sustainable communities; 10 percent for intercity rail capital projects; and five percent for low-carbon transit operations. The reminder of the funds are up for appropriation yearly by the Governor and the legislature.

The report softly suggests that high-speed rail could be one of the projects that lawmakers deprioritizes based on an increasingly apparent lack of funding needed to complete the project.

The May 20 GHG allowance auction, held on May 20, only generated \$25 million for the state-compared with over \$600 million generated by the previous auction in February, with many experts projecting revenue to continue to be lower in the coming years, than the previous years.

The Governor has proposed a "pay as you go" strategy that would prioritize specific programs within GGRF to receive funding as it comes in. At this time, his proposal does not include changing the continuously appropriated allocations. The legislature and the Governor have deferred including GGRF allocations in the June budget, and are expected to address the issue in August before adjourning for the year.

Changes to Cap and Trade Program Considered

Legislation is circulating in the Capitol that would require the California Air Resources Board to open a rulemaking to consider changes to the program. According to the proponents, the program, as it currently operates, is overly generous to the fossil fuel industry and other special interests. They claim that the "pollution caps are too high, the auction prices are too low, and the program doesn't work."

The ultimate goal of the proponents is that the rulemaking will yield a higher floor price for allowances and fewer free allowances to large emitters. This is very concerning for energy and natural gas users because if utilities are forced to buy more allowances at a higher price, it will raise the cost of electricity to commercial and industrial users. While residential customers get a "climate rebate" to cover the increased costs, commercial and industrial customers do not. On the natural gas side, facilities that use significant amounts of natural gas could also be forced to buy allowances at higher prices.

Aliso Canyon Update

Ever since the October 2015 leak of natural gas from Aliso Canyon in Southern California that lasted four months and caused the largest known release of methane in U.S. history, SoCalGas has had to balance razor thin supply and demand margins using tools such as Operational Flow Orders and require commercial customers to reduce usage or face penalties.

Further complicating the situation, in 2017 a key SoCalGas pipeline exploded in the desert, taking it out of service for several years. Without Aliso, or the alternative pipeline, natural gas and electricity prices soured and the CPUC gave SoCalGas greater leeway to withdraw gas from Aliso, much to the disapproval of environmentalists throughout the state. The line that exploded in the desert, Line 235, is still having safety issues to this day and is only sporadically in use.

Before leaving office, Governor Brown called the California Energy Commission (CEC) to create a plan to shut down Aliso Canyon by 2027. Governor Newsom called for a "fast track" shutdown, though the CPUC is still studying a 2027 closure option, with a 2045 backup option. Environmentalists are critical of the process at the CPUC, arguing that he CPUC is planning for natural gas usage to remain flat. They contend that the CPUC needs to start by assuming Aliso Canyon is not an option and then develop strategies to lower natural gas usage to levels consistent with what is available. The CPUC is also looking at options for reducing natural gas demand.

With razor thin margins of natural gas storage in Southern California, any changes made could have profound impacts on natural gas prices.

A very comprehensive article recently ran in the LA Times that expands on the history and current status of natural gas in Southern California. It can be found here: <u>SoCalGas ramps up use of Aliso Canyon</u>, site of worst gas leak in U.S. history

Micro/Nano Plastics

The State Water Resources Control Board (SWRCB) recently adopted a definition of microplastics, as required by SB 1422 (Dodd, 2018). Additional legislation requires adoption of a Statewide Microplastics Strategy to protect coastal waters and the State Water Board is collaborating with the Ocean Protection Council and the Southern California Coastal Water Research Program to lead an ambitious, international effort to standardize methods for monitoring microplastics in drinking water, surface water, sediment and fish tissue.

Microplastics are plastic particles less than 5 millimeters in length – a size that has long concerned scientists due to its potential ingestion by animals. Many of these particles are much smaller and can only be seen through a microscope. While other state, national and international agencies have defined microplastics, California's definition is the first to focus specifically on microplastics in drinking water.

Staff and board members responded to concerns about the definition by indicating that the definition would be a "working definition" that would have revisions as the process towards microplastic detection and regulation continue.

State Water Resources Control Board approves Intended Use Plan for Clean and Drinking Water State Revolving Funds

Recently, the SWRCB adopted planning and funding documents for the clean water and drinking water state revolving fund programs for Fiscal Year 2020-21 and a total of more than \$1.2 billion in potential new funding. The respective revolving fund programs and plans, referred to as "intended use plans," are adopted annually and provide millions of dollars of low interest and principal forgiveness loans to dozens of communities throughout California.

- The <u>Drinking Water State Revolving Fund</u> finances infrastructure improvements to reduce drinking water risks and support the human right to water. It provides funding for drinking water projects such as well rehabilitation and replacement, tank/reservoir replacement, transmission and distribution pipeline replacement, drinking water treatment for primary contaminants and water meters. There are also a few projects on source development/desalination.
- o The <u>Clean Water State Revolving Fund (CWSRF)</u> includes recycled water and stormwater projects and addresses wastewater discharge violations or enforcement orders issued by the

regional water boards. Specifically, wastewater projects include the rehabilitation of existing facilities that treat wastewater, new wastewater treatment facilities, pump station rehabilitation and replacement and sewer pipeline rehabilitation and replacement. Recycled water projects consist of recycled water treatment facilities, pump stations, distribution systems and storage facilities. Storm water projects include projects that prevent, abate, reduce, transport, separate, store, treat, recycle, or dispose of pollutants arising or flowing in storm drainage that is transported in pipes, culverts, tunnels, ditches, wells, channels, conduits, from urban or rural areas to surface or groundwaters of the state and the reuse or disposal of storm water determined acceptable for reuse or disposal.

There was significant concern about the amount of funding authorized, specifically for the Clean Water SRF only offering \$308 million for 2020-2021, significantly less then in prior years. A new funding formula is the cause of the decrease, and the lack of transparency of that formula was brought up by many stakeholders at the hearing. WateReuse and CASA are leading the discussions with SWRCB members and staff to understand why the funding is so much lower and how to increase the total loan amount. The Board shared the concerns but was unwilling to increase the amount at the hearing.

SWRCB Looking for Information on how COVID is Impacting Water Agencies

The SWRCB has sent a survey to all California water agencies asking several questions about how the pandemic is impacting water agency budgets. The board is seeking this information so they can formulate a relief plan should agencies have significant negative impacts because of deferral of payments from customers.

While most water agencies understand why the Board is seeking this information, there are some significant concerns. First, the questionnaire is mostly "yes" or "no" with no room to explain or offer alternatives to the two choices. Second, many are concerned that the Board will take this "snapshot in time" and create policy around it. Threats that if agencies do not respond an executive order mandating reporting will be issued have not been well received. Finally, questions about special district reserves are causing significant consternation among water agencies as attempts to access special district reserves have been attempted in the past.

Legislative Update

The Legislature has been working in a reduced capacity since returning to the Capitol in May. As mentioned in previous reports, members have dramatically reduced their bill packages for the year. We are nearing the point where all bills must be out of their house or origin. Legislators and the Governor seem to have reached an interim deal on the 2020-2021 budget.

On the budget front, the Legislature and the Governor have been unable to agree on how to tackle the estimated \$54 billion budget shortfall that the state will face in the new fiscal year. The Legislature passed a budget by the June 15 Constitutional deadline that assumes the federal government will come through with funding for states, while the Governor assumes the funding does not come through and proposed significant cuts in categories such as education and health care. Legislative leadership and the Governor are reported to have reached a compromise. The major sticking points in the discussions were not water or resource related issues, focusing more on funding for health care and education.

AB 3256 (E. Garcia) Update: Assembly resilience bond proposal passed out of the Assembly Appropriations Committee, but has not been moved to the Assembly floor by Assembly leadership. The budget compromise eliminates the bond for the November ballot.

There are discussions about other stimulus measures that do not require a public vote. Tom Steyer is leading the Governor's Economic Recovery Task Force that is rumored to be having conversations about a stimulus package, however no details have materialized in any significant form and there is little information about where the funding would come from, but WCA continues to monitor the discussions.

Bills still active:

AB 1672 (Bloom): CASA has been working on a flushable products labeling measure for several years. They are finally getting close to reaching an agreement with the industry that will not just remove the opposition to the bill, but bring the flushable products manufactures on as a co-sponsor of the legislation to require specific "DO NOT FLUSH" labeling on wipes. The measure is already over in the Senate, so no action is expected until mid-August.

AB 2560 (Quirk) is CMUA and OCWD's bill on procedures for establishing notification and response levels at the SWRCB. The measure has easily moved through the Assembly committee and full house process and is in the Senate awaiting assignment to a committee.

SB 1099 (Dodd) is CMUA and Las Virgenes' bill addressing run times for backup generators during public safety power shutoffs, or PSPS events. The bill took amendments from the air pollution control districts that would require any agency that uses the run-time exemption to have to upgrade their generators to cleaner generators within a certain timeframe. The author and proponents are not pleased with these provisions and will work to soften the language over in the Assembly.

SB 1386 (Moorlach) is the bill addressing the class action lawsuit on the how water from fire hydrants is treated under Prop. 218. IEUA has joined a very long list of supporters of this legislation and the bill is moving easily through the process.

IEUA BILL POSITIONS—June 25, 2020

| Bill Number | Author/Sponsor | Title and/or Summary | Summary | IEUA Position |
|----------------|----------------------------|--|--|--|
| AB 1672 | Bloom | Product labeling: flushable products | Current law regulates the labeling requirements on various consumer products. This bill would express the intent of the Legislature to enact legislation to prohibit the sale or advertisement of any nonwoven disposable product labeled as "flushable" or "sewer and septic safe" if that product fails to meet specified performance standards. | SUPPORT Senate Rules Committee |
| AB 2093 | Gloria | Public records: writing transmitted by electronic mail: retention | Would, unless a longer retention period is required by statute or regulation, or established by the Secretary of State pursuant to the State Records Management Act, require a public agency, for purposes of the California Public Records Act, to retain and preserve for at least 2 years every public record, as defined, that is transmitted by electronic mail. | OPPOSE FAILED Assembly Appropriations Committee |
| AB 2182 | Rubio ACWA Sponsored | Emergency backup generators: water and wastewater facilities: exemption | Would exempt the operation of an alternative power source, as defined, to provide power to a critical facility, as defined, from any local, regional, or state regulation regarding the operation of that source. The bill would authorize providers of essential public services, in lieu of compliance with applicable legal requirements, to comply with the maintenance and testing procedure set forth in the National Fire Protection Association Standard for Emergency and Standby Power System, NFPA 110, for alternative power sources designated by the providers for the support of critical facilities. | Assembly Utilities and Energy Committee DROPPED BY AUTHOR |
| AB 2560 | Quirk OCWD/CMUA Sponsored | Water quality: notification and response levels: procedures | The California Safe Drinking Water Act requires the State Water Resources Control Board to adopt drinking water standards for contaminants in drinking water based upon specified criteria and requires any person who owns a public water system to ensure that the system, among other things, complies with those drinking water standards. The act requires a public water system to provide prescribed notices within 30 days after it is first informed of a confirmed detection of a contaminant found in drinking water delivered by the public water system for human consumption that is in excess of a maximum contaminant level, a notification level, or a response level established | SUPPORT Senate Environmental Quality Committee |

| | | | by the state board. This bill would require the state board to comply with specified public notice and comment and peer review procedures, as prescribed, when establishing or revising notification or response levels. | |
|--------|------------------------------|--|--|--|
| ACA 1 | Aguiar-Curry | Local government financing: affordable housing and public infrastructure: voter approval | The California Constitution prohibits the ad valorem tax rate on real property from exceeding 1% of the full cash value of the property, subject to certain exceptions. This measure would create an additional exception to the 1% limit that would authorize a city, county, city and county, or special district to levy an ad valorem tax to service bonded indebtedness incurred to fund the construction, reconstruction, rehabilitation, or replacement of public infrastructure, affordable housing, or permanent supportive housing, or the acquisition or lease of real property for those purposes, if the proposition proposing that tax is approved by 55% of the voters. | Assembly Floor-first vote failed, can be acted upon Jan 2020 |
| SB 414 | Caballero Eastern MWD/ CMUA | Small System Water Authority Act of 2019 | Would create the Small System Water Authority Act of 2019 and state legislative findings and declarations relating to authorizing the creation of small system water authorities that will have powers to absorb, improve, and competently operate noncompliant public water systems. The bill, no later than March 1, 2020, would require the state board to provide written notice to cure to all public agencies, private water companies, or mutual water companies that operate a public water system that has either less than 3,000 service connections or that serves less than 10,000 people, and are not in compliance, for the period from July 1, 2018, through December 31, 2019, with one or more state or federal primary drinking water standard maximum contaminant levels, as specified. | SUPPORT 2- year bill Assembly Approps |
| SB 667 | Hueso | Greenhouse Gasses: Recycling Infrastructure and Facilities | Would require the Department of Resources Recycling and Recovery to develop, on or before January 1, 2021, and would authorize the department to amend, a 5-year needs assessment to support innovation and technological and infrastructure development, in order to meet specified organic waste reduction and recycling targets, as provided. | SUPPORT IF AMENDED |

| | | | The bill would require, on or before June 1, 2021, the department, in coordination with the Treasurer and the California Pollution Control Financing Authority, to develop financial incentive mechanisms, including, among other mechanisms, loans and incentive payments, to fund and accelerate public and private capital towards organic waste diversion and recycling infrastructure. | 2-year bill Assembly Appropriations |
|---------|--------------------------------|--|---|---|
| SB 996 | Portantino MWD/CMUA | SWRCB: Constituents of Emerging Concern | Would require the State Water Resources Control Board to establish by an unspecified date and then maintain an ongoing, dedicated program called the Constituents of Emerging Concern Program to support and conduct research to develop information and, if necessary, provide recommendations to the state board on constituents of emerging concern in drinking water that may pose risks to public health. The bill would require the state board to establish the Stakeholder Advisory Group and the Science Advisory Panel, both as prescribed, to assist in the gathering and development of information for the program, among other functions. The bill would require the program to provide opportunities for public participation, including conducting stakeholder meetings and workshops to solicit relevant information and feedback for development and implementation of the program. | Bill Dropped by Author to keep focus on emergency measures. |
| SB 1052 | Hertzberg CASA/CA Coastkeeper | Water Quality: Municipal Wastewater Agencies | Would establish municipal wastewater agencies and would authorize a municipal wastewater agency, among other things, to enter into agreements with entities responsible for stormwater management for the purpose of managing stormwater and dry weather runoff, to acquire, construct, expand, operate, maintain, and provide facilities for specified purposes relating to managing stormwater and dry weather runoff, and to levy taxes, fees, and charges consistent with the municipal wastewater agency's existing authority in order to fund projects undertaken pursuant to the bill. The bill would require the exercise of any new authority granted under the bill to comply with the Cortese-Knox-Hertzberg Local Government Reorganization Act of 2000. | Bill Dropped by Author to keep focus on emergency measures. |

| SB 1099 | Dodd CMUA/Las Virgenes Sponsored | Emergency backup generators: critical facilities: exemption | Would, consistent with federal law, require air districts to adopt a rule, or revise its existing rules, to allow critical facilities with a permitted emergency backup generator to use that emergency backup generator during a deenergization event or other loss of power, and to test and maintain that emergency backup generator, as specified, without having that usage, testing, or maintenance count toward that emergency backup generator's time limitation on actual usage and routine testing and maintenance. The bill would prohibit air districts from imposing a fee on the issuance or renewal of a permit issued for those critical facility emergency backup generators | SUPPORT Senate Floor |
|---------|--|---|--|-------------------------------------|
| SB 1386 | Moorlach Irvine Ranch Water District and others | Local government: assessments, fees, and charges: water. | The Proposition 218 Omnibus Implementation Act prescribes specific procedures and parameters for local jurisdictions to comply with these requirements and, among other things, authorizes an agency providing water, wastewater, sewer, or refuse collection services to adopt a schedule of fees or charges authorizing automatic adjustments that pass through increases in wholesale charges for water, sewage treatment, or wastewater treatment or adjustments for inflation under certain circumstances. Current law defines, among other terms, the term "water" for these purposes to mean any system of public improvements intended to provide for the production, storage, supply, treatment, or distribution of water from any source. This bill would specify that "water" for purposes of the Proposition 218 Omnibus Implementation Act also includes the public fixtures, appliances, and appurtenances connected to an above-described system of public improvements intended to provide for the production, storage, supply, treatment, or distribution of water from any source. | Assembly Local Government Committee |

Note: Bills in *ITALICAS* are no longer active.

INFORMATION ITEM

4K

Comprehensive Government Relations

MEMORANDUM

To: IEUA Community & Legislative Affairs Committee

From: Letitia White, Jean Denton, Drew Tatum, and Shavenor Winters

Date: June 26, 2020

Re: June Monthly Legislative Update

House Democrats Unveil \$1.5 Trillion Infrastructure Plan

House Democrats unveiled a \$1.5 trillion infrastructure plan Thursday, June 18 that calls for a huge increase in funding to repair roads and bridges while expanding broadband access in rural areas. They followed up with the release of the legislative text on Monday June 22, with plans to bring it to the floor during the week of June 29. The House Rules Committee is scheduled to meet on Monday, June 29 to determine which amendments will be made in order for floor consideration. As of Friday, June 26, the legislation had attracted 347 amendments that have been submitted to the House Rules Committee.

Democrats described the bill as the biggest legislative effort to fight climate change, with Speaker Nancy Pelosi (D-CA) saying the package would "make real the promise of building infrastructure in a green and resilient way."

"It's job-creating in its essence, but it's also commerce-promoting. So, it grows the economy of our country," she said.

The legislation is the latest attempt to advance an infrastructure package that has been discussed since the early days of the Trump administration but continuously fails to gain traction.

Though Senate Majority Leader Mitch McConnell (R-KY) has said he does not want to include infrastructure with coronavirus relief, passage of the House measure could put added pressure on the upper chamber to take action in July.

GOP lawmakers have introduced a highway bill of their own in the House, and a package in the Senate was approved at the committee level.

As for the infrastructure bill as a whole, Republicans have raised concerns about the cost of the legislation.

Democrats have yet to outline how they will pay for the bill, but Pelosi said, "with the interest rates where they are now there's never been a better time for us to go big."

The Federal Reserve this month voted to keep interest rates near zero, and Fed Chairman Jerome Powell has insisted throughout the crisis that there is "no limit" to the central bank's willingness to offer cheap lending.

A vote on the legislation is expected before the Fourth of July recess. While the bill is likely to pass the Democrat-led House, it will unlikely garner sufficient support in the Senate.

The 2,309-page package combines a \$500 billion surface transportation bill that the House Transportation and Infrastructure Committee approved June 18 with other clean energy, infrastructure, and education funding proposals already unveiled by Democrats in recent months.

The infrastructure bill also includes \$25 billion for drinking water, \$100 billion for broadband, \$70 billion for clean energy projects, \$100 billion for low income schools, \$30 billion to upgrade hospitals, \$100 billion in funding for public housing and \$25 billion for the postal service. But its largest component is a \$500 billion Democrat-led bill from the House Transportation Committee that has sparked Republican complaints of exclusion.

The measure would authorize \$8 billion per year from fiscal 2021 through 2025 for the Clean Water State Revolving Fund (SRF) program, which provides money for states to subsidize water pollution control projects.

The bill would require states to use at least 15% of Clean Water SRF capitalization grants for projects to address green infrastructure or improvements to water or energy efficiency.

States could use the Clean Water SRF to make grants to water utilities and other funding recipients. At least 10% of each state's capitalization grants would have to be used to provide additional subsidies such as grants or loan forgiveness.

The measure would authorize \$200 million annually from fiscal 2021 through 2025 for the Environmental Protection Agency to award grants to publicly owned treatment works to address per- and polyfluoroalkyl substances (PFAS), sometimes called "forever chemicals," and other emerging contaminants. The bill would also authorize \$400 million per year from fiscal 2021 through 2025 for EPA grants to treat and manage combined sewer overflows and other stormwater, \$300 million annually for fiscal 2021 through 2025 for EPA pollution control grants to states, \$200 million per year for fiscal 2021 through 2025 for grants to states to address nonpoint sources, \$1 billion for technical assistance and grants related to sewer discharge management and resilience and also \$600 million for grants to carry out projects to conserve, manage, reclaim, or reuse water or wastewater.

The legislation would reauthorize capitalization grants for the Drinking Water State Revolving Loan Fund through fiscal 2025 at increased annual levels. The fiscal 2021 level, set by current law, is \$1.95 billion. Under the bill, the fiscal 2022 level would be \$4.14 billion increasing to \$5.5 billion in fiscal 2024 and 2025.

The bill would authorize \$500 million per year through fiscal 2025 for an EPA grant program to pay for community water systems' capital costs for treating drinking water contaminated with PFAS.

The measure would also provide \$10 billion for U.S. Army Corps of Engineers civilian water projects.

The legislation combines the 5-year transportation reauthorization bill that was reported out of the House Transportation Committee. The roughly \$500 billion bill was combined with \$1 trillion in spending from legislation previously introduced by House Democrats.

Tensions on the Transportation Committee flared largely over the green measures included in the bill, which requires states to account for climate change before undertaking projects and also requires states to meet certain greenhouse gas emission goals when they receive funding.

Republicans on the committee have nicknamed the legislation the "my way or the highway bill," airing frustrations that they were excluded from its crafting.

Congress Faces Tight Schedule for 2021 Spending Bills

House Appropriations Chairwoman Nita Lowey (D-NY) on Thursday, June 4 announced an ambitious schedule to mark up and pass all 12 fiscal year 2021 spending bills over a four-week period in July.

The 12 subcommittees and full committee will mark up the bills in the first two full weeks of July, and work to pass all the bills in the latter two weeks of the month. While all twelve appropriations bills will likely be advanced out of the House Appropriations Committee, it is unlikely that all twelve will be passed by the full House. As has been the case over the last few years, with the Homeland Security Appropriations bill.

"It will be an extremely busy month, which is nothing new for our committee," Lowey wrote in a letter to fellow appropriators.

The House bills are likely to advance along party lines, setting up a standoff with the Senate, which needs bipartisan support to advance its spending bills.

The Senate, however, has not yet laid out a timeline for its FY21 appropriations schedule. Last year, it was significantly delayed as it waited for overall spending levels to be set. That process laid out caps for both 2020 and 2021, but differences often surface in how the committees allocate the funds among the 12 bills, and how much extra spending is tucked in through various budget gimmicks.

In addition, the Senate Appropriations Committee is delaying the start of markups for funding the government for fiscal year 2021 over partisan disagreements on police reform and COVID-19 spending.

In the aftermath of the death of George Floyd, Democrats are eager to fund programs they say will promote racial justice. They also want to add funding to help tackle the COVID-19 outbreak into appropriations bills.

That disagreement is delaying the sides from reaching bipartisan consensus to markup bills. Democrats are looking to offer amendments on the issues, which Republicans say should be addressed in other legislation like the JUSTICE Act -which Democrats blocked from coming to the floor in a procedural vote on Wednesday, June 24.

In recent years, the Senate has moved appropriations bills on agreement that they would be bipartisan while excluding controversial "poison pill" riders.

"Funding the government is a serious responsibility, and I will not allow the appropriations process to be hijacked and turned into a partisan sideshow," Senate Appropriations Committee Chairman Richard Shelby (R-AL) said. Meanwhile, Sen. Patrick Leahy (D-VT), the committee's top Democrat, said that offering amendments was a key concern for Democrats.

"There is bipartisan agreement that we need to address the COVID-19 pandemic. And if we want to truly address the issues of racial injustice that George Floyd's tragic death has brought to the surface, we need more than symbolism, we need to appropriate money for programs that advance these issues," Leahy said.

Markup notices for the bills had originally been expected in mid-June, but the disagreements made it impossible to forge bipartisan bills. Markups are now not expected in the Senate Appropriations Committee until at least after the July 4th recess.

Senate Republicans are growing concerned that rising tensions between President Trump and Speaker Nancy Pelosi (D-CA) could lead to a shutdown fight.

There is widespread anxiety among GOP senators that Trump picking fights is a liability as his response to nationwide protests against police brutality appears to be the cause of his declining approval ratings.

Republicans are now worried that he could pick a fight with Pelosi in September over government funding for the next fiscal year.

In response, some Senate Republicans are discussing moving legislation that would prevent a government shutdown even if the annual appropriations bills have not been passed. The GOP senators say they have received a commitment from GOP leaders for a vote in the coming weeks.

Some moderate Democrats have expressed support in the past for legislation to prevent future shutdowns.

Sen. Mark Warner (D-VA) last year introduced the Stop Stupidity Act, which would renew government funding at the same levels as the previous fiscal year, except for the legislative branch and the executive office of the president.

Sen. Rob Portman (R-OH) and a group of Senate Republicans have proposed the End Government Shutdowns Act, which would set up an automatic continuing resolution for any regular appropriations bill or existing stopgap spending measure to keep "the federal government open when negotiations falter before key spending deadlines," according to an official summary of the proposal.

Another measure, The No Budget, No Pay Act, introduced by Republican Senators would require Congress to pass an annual budget and meet appropriations bill deadlines or forgo their own salaries until those goals are met. It passed out of the Senate Homeland Security and Governmental Affairs Committee last year.

Congress has until the end of September to fund the government for fiscal 2021, which begins October 1, to prevent a funding lapse or shutdown. But it seldom succeeds in getting that job done on time, and some or all of the funding areas require temporary extensions to keep the government running.

In election years, the issue is frequently punted beyond the November election.

Senate Advances Conservation Fund Bill, House to Consider in July

The Senate passed a major public lands bill on Wednesday, June 17 voting to set aside hundreds of millions of dollars each year for conservation efforts.

The Great American Outdoors Act, which passed in a 73-25 vote, would permanently provide \$900 million in oil and gas revenues for the Land and Water Conservation Fund (LWCF), which helps secure land for trails and parks.

It would make available without separate appropriations more than \$2.5 billion annually for spending on land acquisition and deferred maintenance for park land. It would convert money in the \$900 million-per-year Land and Water Conservation Fund into mandatory funding. The LWCF is funded by a portion of offshore oil leasing revenue, among other sources, and used to add land to national parks, wildlife refuges, ball fields, and city parks.

"Permanent LWCF funding will help improve access to public lands, including providing important access for hunting and fishing opportunities, and will ensure the program remains an important contributor to a strong and growing outdoor recreation economy that will benefit state and local economies throughout our nation," Senator Joe Manchin (D-WV), who was part of a bipartisan group that introduced the bill, said in a floor speech.

The bill, which had broad bipartisan support and now heads to the House. House Majority Leader Steny Hoyer (D-MD) has told lawmakers that the House will take up the bill during the July work period, which is scheduled to start the week of July 20. While there had been hope that the legislation would pass on the suspension calendar, Hoyer said the legislation will be brough to the floor under a rule, which only requires a simple majority vote.

While the legislation is expected to enjoy bipartisan support. Some Republicans have threatened to withhold support unless they are able to vote on amendments to the legislation. Bringing the legislation to the floor under a rule means the House Rules Committee can bring it to the floor without allowing for the consideration of amendments.

The legislation also recently secured the backing of President Trump, who has indicated he will sign the legislation when it comes to the White House.

Senate Committee Advances Deputy Energy Secretary Nominee

In June the Senate Energy and Natural Resources Committee held a business meeting to consider the pending nomination of Mr. Mark Menezes, nominated to be the Deputy Secretary of Energy. On Tuesday, June 9 the committee advanced the nomination of President Trump's pick for the second-in-command role at the Energy Department.

Mark Menezes's nomination to be deputy energy secretary received opposition from just one senator on the chamber's Energy and Natural Resources Committee, Catherine Cortez Masto (D-NV), over the Trump administration's reported consideration of nuclear testing.

"Reports are suggesting that this Administration is prepared to jeopardize the health and safety of Nevadans, undercut our nation's nuclear nonproliferation goals, and further weaken strategic partnerships with our global allies just to flex its muscles on the global stage," Cortez Masto said in a statement submitted to the congressional record.

"I look forward to receiving assurances that Nevada will not be used, once again, for explosive nuclear testing," she added.

The senator also referenced tests that took place at the Nevada National Security Site between 1945 and 1992.

"Each one of those tests made a lasting mark on Nevada, surrounding states, test site workers, and individuals downwind from the blasts," her statement said.

"Since then, the United States has certified the deployed nuclear stockpile annually without nuclear explosive testing...and has found no issues that require us to resume underground testing," she said. "NNSA maintains the readiness to conduct an underground nuclear test within 24 to 36 months, if required, to ensure the safety and effectiveness of the Nation's stockpile."

Following the voice vote, Menezes waits to be considered by the full Senate.

Since 2017, he has served as Under Secretary of Energy and has advised the department on policy and technology. Before that, he worked as an executive with Berkshire Hathaway Energy and has also lobbied for several energy companies.

Senate Could Consider Coronavirus Relief Bill in July

The next relief package aimed at responding to the coronavirus pandemic likely will not be passed by the Senate until at least mid-July, Senator John Thune (R-SD), the second highest-ranking Republican in the upper chamber said.

The bill could be considered likely after the Senate returns to Washington from its scheduled July 4th recess currently slated to take place between July 3 and July 17.

Thune said the Senate has a packed calendar for the remainder of June, with the upper chamber set to vote on two of President Trump's nominations to the federal courts of appeals and bipartisan legislation. The Senate Armed Services Committee has also advanced the 2021 defense authorization bill, and several Senate panels are convening for hearings focused on the coronavirus pandemic and nominations.

White House trade adviser Peter Navarro signaled that President Donald Trump is looking for at least \$2 trillion in the next relief package being considered to help buoy an economy devastated by the coronavirus pandemic while Senate Majority Leader Mitch McConnell has stressed to Trump that he would prefer a smaller package to the tune of \$1 trillion. However, Treasury Secretary Steven Mnuchin has signaled that the Trump administration is considering another round of stimulus checks as many Americans continue to feel the economic sting of the coronavirus pandemic.

"It's something that we're very seriously considering," Mnuchin said. He said that a final decision would be coming on whether President Trump would push for the checks in Congress's next stimulus package.

The initial round of stimulus checks was part of Congress's \$2 trillion-plus CARES Act passed in March. Qualifying American adults received a one-time payment of \$1,200 (\$2,400 for married couples who file taxes jointly), receiving an additional \$500 for every dependent claimed under the age of 17.

The IRS has said that it has paid all eligible Americans that it has enough information on to have received their checks. The total paid out is \$267 billion, according to the agency.

In its latest \$3.5 trillion stimulus package proposal, the Democratic-led House included another round of stimulus checks. These checks would be larger, offering an additional \$1200 each for up to three children claimed instead of \$500.

The most recent jobs report from the Bureau of Labor Statistics showed that the economy actually gained jobs in May, though more than 40 million Americans have filed for unemployment benefits since the onset of the pandemic.

The Senate will still need to conference its final bill with the \$3 trillion package the House passed HEROES Act with a major focus on providing direct relief to American families and state, local and tribal governments. The House bill contained roughly \$1 trillion for state and local governments. The funding, which could be used to patch shortfalls, is a priority for

Democrats in the next response bill. While assistance for state and local governments is expected to be included in a future package, bipartisan consensus seems to be gathering around providing \$500 billion for states and local governments.

The nation's economic recovery from the coronavirus recession could stall if Congress fails to provide substantial federal aid to local governments, the National League of Cities said Tuesday. Citing a survey of 1,100 municipalities, the league said 65% have been forced to delay or cancel infrastructure projects and capital expenditures because of the pandemic's toll on local government finances. That could have a ripple effect throughout the already-battered economy by stalling tens of billions of dollars in spending and halting job growth

While the Senate works toward another relief bill on Thursday, June 18 a bipartisan group of Senators introduced legislation to establish a \$120 billon fund for independent food service or drinking establishments devastated from the coronavirus pandemic.

The bill, dubbed the Real Economic Support that Acknowledges Unique Restaurant Assistance Needed to Survive Act, or Restaurant Act, would provide grants to restaurants that are not publicly traded and have \$1.5 million or less in revenue under normal circumstances.

The grant can be used to cover payroll, benefits, mortgage, rent, protective equipment, food, or other costs. It provides an addition or substitute to loans provided through the Paycheck Protection Program (PPP), which Congress passed in the \$2.2 trillion coronavirus relief package in March, for restaurants to spend more on overhead costs, as well as payroll.

House, Senate Release Police Reform Bills as Trump Signs Executive Order

House Democrats and Senate Republicans have rolled out police reform bills in the wake of George Floyd's death at the hands of Minneapolis police, an incident that sparked mass protests against police brutality and led to a national debate about racism in America.

The goals of the competing bills are the same: to halt excessive force and other bad behavior by police officers.

There is some common ground between the two bills -both provide more funding for police body cameras and make lynching a federal crime.

The Democratic legislation creates a much stronger role for the federal government, through bans and mandates. The GOP bill relies on federal incentives to encourage state and local police to reform their departments, keeping with Republicans' belief in a limited federal government.

There are several key differences between the measures.

While both measures include language aimed at stopping officers from using chokeholds, but the House Democratic bill makes them outright illegal.

The Democratic bill would outlaw chokeholds or any maneuver to restrain an individual that restricts blood or oxygen flow to the brain, or impedes breathing.

That would apply to the chokehold a New York police officer used on an African American man, Eric Garner, before he died in 2014. A Minneapolis police officer pinned Floyd to the ground by kneeling on his neck for nearly nine minutes; that officer now faces second-degree murder charges.

The Senate Republican bill would not outright ban chokeholds. Instead, it prevents state and local law enforcement departments that do not ban chokeholds from receiving critical federal grants.

The GOP legislation also has a much narrower definition of a chokehold, calling it "a physical maneuver that restricts an individual's ability to breathe for the purposes of incapacitation." It directs the attorney general to come up with new policies to limit chokeholds "except when deadly force is authorized."

The Democrats' bill would effectively end the practice of no-knock warrants, which allow police officers typically working drug cases to enter a house or other premises without announcing their presence.

Democrats have pointed to the March killing of Breanna Taylor, a 26-year-old black emergency medical technician who was shot eight times by Louisville police officers who were executing a no-knock search warrant in a drug case that did not center on Taylor.

The GOP legislation would require states and localities to report the use of no-knock warrants to the attorney general at the federal level on an annual basis. The attorney general would then publish the information in a public report. Departments that fail to comply would see a 20 percent reduction in their normal federal funding.

The Democratic bill would change the legal doctrine known as qualified immunity, which now shields police officers from being sued by citizens who believe their constitutional rights have been violated. The legislation would make it easier for victims of police brutality to take legal action against officers and seek civil damages.

Top Republicans have said that any changes to qualified immunity is a non-starter however separate legislation has been introduced that would offer more legal options for individuals who have had their constitutional rights violated by police.

Qualified immunity could serve as one of the biggest sticking points between Democrats and Republicans — and the biggest obstacle to a bipartisan deal.

The Senate attempted to move to its bill on Wednesday, June 24 after all but two Democrats voted against proceeding to the legislation. Senate Democrats have called for having more input on the legislation before it comes to the floor.

The House passed its measure on Thursday, June 25 by a vote of 236 to 181. Only three Republicans and Republican turned Independent Justin Amash (I-MI) voted for the legislation. No House Democrat voted against the legislation.

Ahead of action in both the House and Senate, President Trump signed an executive order aimed at incentivizing police reforms. The order would create federal incentives through the Justice Department for local police departments that seek "independent credentialing" to certify that law enforcement is meeting higher standards for the use of force and de-escalation training. Trump specifically noted that those standards would include banning the use of chokeholds — an especially controversial tactic that has led to the high-profile deaths of multiple African-American men — "except if an officer's life is at risk."

Trump's order would also incentivize local departments to bring on experts in mental health, addiction, and homelessness as "co-responders" to "help officers manage these complex encounters." And it would encourage better information sharing to track officers with "credible abuses" to prevent them from moving from one department to the next.

The text of the order directs the Justice Department to create and maintain a database to track when officers have been terminated or decertified, have been criminally convicted for on-duty conduct or faced civil judgments for improper use of force. It notes that information-sharing related to use-of-force complaints would not apply in "instances where a law enforcement officer resigns or retires while under active investigation related to the use of force," and emphasizes that the database would track only episodes in which an officer was "afforded fair process."

Trump Signs Order Aiming to Speed Infrastructure Permits

President Donald Trump signed an executive order that would expedite permitting for infrastructure projects, building on earlier orders to ease regulations for industry. The White House contends the move will help speed the nation's recovery after the coronavirus pandemic.

The order directs federal agencies, including Interior, Agriculture and Defense departments and the Army Corps of Engineers, to hasten the permitting processes required under the National Environmental Policy Act (NEPA), the Endangered Species Act and Clean Water Act.

Trump signed the order in June at the Oval Office, a day after House Democrats released a \$494 billion infrastructure bill that includes climate change provisions.

"From the beginning of my Administration, I have focused on reforming and streamlining an outdated regulatory system that has held back our economy with needless paperwork and costly delays," Trump wrote in the order. "The need for continued progress in this streamlining effort is all the more acute now, due to the ongoing economic crisis."

The order sparked backlash from environmental justice advocates, who slammed both the substance of the order and its timing, which comes amid nationwide protests over police brutality.

"This administration is removing phantom barriers that are at their essence protections for the very communities that are struggling most from the health impacts of air and water pollution," Christy Goldfuss, who headed the White House Council on Environmental Quality under the Obama administration and now works at the Center for American Progress, said in a statement.

"They're trying to divert attention away from the crisis of racial injustice happening around the country, by giving agency leads the excuse to ram through polluting projects that will prop up the dying fossil fuel industry while destroying the very same communities that are dying at higher rates from COVID-19 and police violence, as well," she added.

Trump's order comes on the heels of one signed last month that directs agency heads to "identify regulatory standards that may inhibit economic recovery."

The latest order goes further, directing agencies to use their own emergency authorities and the emergency provisions of environmental laws to skip over standard requirements.

Agencies will now have 30 days to report which projects will be expedited under the order, but there is no requirement for that list to be publicized.

Republicans, including Senate Environment and Public Works Committee Chairman John Barrasso (R-WY) have applauded the White House's efforts that provide for the "modernizing" of America's infrastructure and streamlining the permitting process. Barrasso's highway and infrastructure bill (S.2302) would make the permitting less stringent.

The order was widely criticized by congressional Democrats.

"Let's be clear, this executive order is not about providing immediate relief to the American people and boosting our economy. If President Trump was interested in anything other than expanding his power, there are a number of things he and his Administration could do to help our country combat this deadly epidemic and spur economic growth," Sen. Tom Carper (D-DE), ranking member on the Senate Environment and Public Works Committee, said.

NEPA has an emergency provision that allows speedy construction of projects. Lifting the requirements of the law means cutting out a number of steps.

The laws altered under the order have been targeted by industry groups for years, which argues that endangered species laws are too restrictive and NEPA reviews can stall projects.

The Trump administration rolled back the Endangered Species Act in August, followed by a January proposal from the Council on Environmental Quality that would limit NEPA's scope.

That proposal excludes some projects, particularly those that receive little federal funding, from undergoing an environmental review. It also would open the door for more industry involvement in reviewing the environmental impact of their projects.

The rule is undergoing a review by the White House Office of Management and Budget.

Environmental groups hinted they would take legal action to block the order.

EPA to Allow Use of Weed Killer

The Environmental Protection Agency (EPA) on Monday, June 8 said it will allow farmers to continue to use a weed killer chemical for about two months after a court ruling overturned the agency's approval of the chemical for certain uses.

A federal court has ruled that the EPA "substantially understated risks that it acknowledged and failed entirely to acknowledge other risks" when in 2018 it approved the use of dicamba for genetically modified soybean and cotton farming.

The dicamba weed killer has been linked to certain cancers and the herbicide has also been shown to damage certain types of trees and other plants.

After the ruling, the EPA canceled an order that allowed farmers to use three products containing dicamba, but the farmers are allowed to use the products until July 31.

Advocates said this violated the court order and that these uses of dicamba must be stopped now.

"They don't have the legal authority to do that. The court said what it said and held what it held and now they're trying to relitigate that, which is improper," said George Kimbrell, the legal director of the Center For Food Safety, which was one of the groups who challenged the approval in court.

"In the face of clear evidence that this stuff drifts offsite and has caused damage to crops and other plants, EPA's just pushing forward to continue to allow that to happen," said Stephanie Parent, a Center for Biological Diversity attorney who is co-counsel in the case.

Both Parent and Kimbrell have said they will challenge the EPA's new order in court.

The agency, however, said in a statement that its order provided "clarity" for farmers.

"At the height of the growing season, the Court's decision has threatened the livelihood of our nation's farmers and the global food supply," EPA Administrator Andrew Wheeler said in a statement.

"Today's cancellation and existing stocks order is consistent with EPA's standard practice following registration invalidation, and is designed to advance compliance, ensure regulatory certainty, and to prevent the misuse of existing stocks," he added.

The EPA estimated in its ruling that about four million gallons of dicamba could be "in the channels of trade."

EPA Passes on Perchlorate Regulations

The Environmental Protection Agency (EPA) announced in June that it will not regulate a chemical used in rocket fuel that has been linked to developmental damage.

The agency said in a statement that the chemical, perchlorate, "does not meet the criteria for regulation as a drinking water contaminant" under the Safe Drinking Water Act.

The EPA has found that up to 620,000 people might be consuming water that has a perchlorate concentration higher than "levels of concern."

It said in a draft final action that this number was too small to present a "meaningful opportunity for health risk reduction."

"Today's decision is built on science and local success stories and fulfills President Trump's promise to pare back burdensome 'one-size-fits-all' overregulation for the American people," EPA Administrator Andrew Wheeler said in a statement.

"State and local water systems are effectively and efficiently managing levels of perchlorate. Our state partners deserve credit for their leadership on protecting public health in their communities, not unnecessary federal intervention," he added.

Agency documents have stated that exposure to perchlorate can cause issues with the thyroid gland, which is critical for growth and development of fetuses, babies and children.

Critics say the move by the EPA defied a court-ordered consent decree requiring the administration regulate the chemical.

"Today's decision is illegal, unscientific, and unconscionable," said Erik Olson, Senior Strategic Director for health at the Natural Resources Defense Council, in a statement.

Supreme Court Addresses Landmark Cases

The Supreme Court on Monday, June 15 affirmed that sexual orientation and gender identity discrimination are prohibited under Title VII, meaning a person cannot be fired for being LGBTQ.

While the case garnered less attention than the showdown five years ago that led to the court's landmark decision finding a constitutional right to same-sex marriage, the latest ruling could have far reaching impacts.

In writing for the majority, Supreme Court Associate Justice Neil Gorsuch said Congress may not have intended to ban discrimination against gays, lesbians and transgender individuals, but that the logic of their protection by the statute was inescapable.

"Those who adopted the Civil Rights Act might not have anticipated their work would lead to this particular result. Likely, they weren't thinking about many of the Act's consequences that

have become apparent over the years, including its prohibition against discrimination on the basis of motherhood or its ban on the sexual harassment of male employees," Gorsuch wrote.

"But the limits of the drafters' imagination supply no reason to ignore the law's demands," he continued. "When the express terms of a statute give us one answer and extratextual considerations suggest another, it's no contest. Only the written word is the law, and all persons are entitled to its benefit."

In another case, on Thursday, June 18 the Court rejected the Administration's efforts to end the DACA program based on the administration's current actions, handing a major victory to about 650,000 immigrants — most of whom who entered the U.S. illegally as children more than a decade ago. The ruling keeps intact a program that is open to an estimated 1.3 million noncitizens who are eligible for DACA by virtue of having been brought to the U.S. as children and who have maintained residency and who meet the education or military service requirements and other criteria.

Chief Justice John Roberts joined the court's Democratic appointees in a 5-4 decision that found the Trump administration's move to wind down the Obama-era program for Dreamers lacked a sound legal basis. The decision does not foreclose future moves to end the Deferred Action for Childhood Arrivals program, but it seems unlikely the administration will be able to put in place a new framework to end DACA before November's presidential election.

The high court decision averts that kind of a political scramble in the coming months but does not extinguish the future of the Dreamers as a political issue. Given the pathways the court's action leaves open to ending DACA in the future, it offers no long-term guarantee that the program will remain in place.

"While today's decision provides some clarity for the thousands of DACA recipients who call Colorado home, Congress still needs to reach a long-term solution for Dreamers in the United States—including a pathway to citizenship," said Senator Cory Gardner (R-CO), "that's why I support immediate passage of the Dream Act and would also support the House-passed Dream and Promise Act. The Senate should act quickly to provide permanent relief for Dreamers. I will continue to work across the aisle with my colleagues in Congress to deliver certainty for Dreamers in a way the Court cannot."

Supreme Court Skips Case on California Sanctuary Law

The Supreme Court on Monday, June 15 turned down an appeal from the Trump administration seeking to challenge a California "sanctuary law" leaving intact rules that prohibit law enforcement officials from aiding federal agents in taking custody of immigrants as they are released from jail.

The Court did provide any details on its decision to not hear the case; although, Justices Clarence Thomas and Samuel A. Alito Jr. said they would have granted the administration's petition seeking review.

The California law prohibits state officials from telling federal ones when undocumented immigrants are to be released from state custody and restricts transfers of immigrants in state custody to federal immigration authorities.

A unanimous three-judge panel of the United States Court of Appeals for the Ninth Circuit, in San Francisco, ruled that the federal government is not entitled to commandeer a state's resources to further its immigration agenda.

In a petition seeking the Supreme Court review of the case, United States v. California, No. 19-532, lawyers for the Trump administration wrote that the state law conflicted with federal ones and posed a risk to public safety. In response, lawyers for California said in their brief that the federal government was not entitled to take over the state's resources.

| Bill Number | Sponsor/ Cosponsor | Title and/or Summary | Summary/Status | Latest Action |
|-------------|-------------------------------|--|--|---|
| H.R. 2 | Rep. DeFazio (D-OR) | INVEST in America Act | legislation to authorize funds for Federal- aid highways, highway safety programs, and transit program. The measure includes \$25 billion for drinking water, \$100 billion for broadband, \$70 billion for clean energy projects, \$100 billion for low income schools, \$30 billion to upgrade hospitals, \$100 billion in funding for public housing and \$25 billion for the postal service and | The legislation was introduced in the House on June 11, 2020. On June 17, 2020 the Subcommittee on Highways and Transit discharged the measure and the bill for consideration by the Committee on Transportation and Infrastructure. Following the mark up the bill was ordered to be reported out of committee. On Monday, June 29, 2020 the Rules Committee will meet to discuss the procedure and rules for the bill's consideration on the House floor. |
| H.R. 6622 | Rep. David McKinley (R-WV) | Assuring Quality Water Infrastructure Act | The bill amends the Safe Water Drinking Act to establish a grant program for improving operational sustainability by small public water systems. The bill would authorize \$5 million to execute this program for each of the fiscal years 2021 - 2025. | The legislation was introduced on April 24, 2020, and referred to the House Committee on Energy and Commerce. |

| H.R.6800 | Rep. Nita Lowey (D- NY) | The HEROES Act | program. The grant funds would have to be allocated to state and local recipients within 30 days of the bill's enactment according to an existing formula. Emergency grants could be made over 121 consecutive months, instead of three months, for entities that provide families with food, clothing, housing, and more. | The legislation was introduced on May 12, 2020. On May 15,2020 the measure passed the House by a vote of 208 - 199. The bill has not been well received in the Senate. Majority Leader Mitch McConnell(R-KY) has indicated that a Senate version will likely be notably different that the House passed version. The Senate is expected to consider a measure after the July 4th recess. |
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| S.3752 / H.R.6954 | Sen. Robert Menendez (D-NJ) / Sen. Bill Cassidy (R-LA) Reps. Mikie Sherril (D- NJ) / Rep. Peter King (R-NY) | SMART Act | community in the country, while prioritizing assistance to the areas with the greatest need. These funds could be used to help state and local governments meet the current demand, expand testing capacity and contact tracing, provide further assistance to residents, local hospitals, small businesses and schools, in addition to maintaining critical services residents depend upon. The funding would be divided into equal thirds to provide | The legislation was introduced on May 18 in the Senate and on May 19 in the House. Either a substitute amendment or new legislation negotiated by the bipartisan group of Members is expected to be introduced reflecting updated provisions agreed to by the coalition. The legislation has been referred to the respective committees of jurisdiction in the House and Senate. The Senate Committee on Banking, Housing, and Urban Affairs held a hearing on the legislation on June 2. |
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| H.R.7073 | Rep. John Garamendi (D-CA) | Special Districts Provide Essential Services Act | ends on September 30, 2020, for State and Tribal governments and units of | The legislation was introduced on June 1, 2020 and referred to the House Committee on Oversight and Reform and Committee on Financial Services. |
|----------|---|---|---|--|
| S.3591 | Sen. John Barrasso (R-WY) / Tom Carper (D-DE) | America's Water Infrastructure Act of 2020 | completing feasibility studies for potential projects by the Corps, and reauthorizes the WIFIA program administered by the EPA. | The legislation was introduced on May 4, 2020, and referred to the Committee on Environment and Public Works. On May 11, 2020, the legislation was reported by Senator Barrasso with an amendment in the nature of a substitute, and placed on the Senate Legislative Calendar under General Orders. The legislation has bipartisan cosponsorship. |

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| S.3590 | Sen. John Barrasso (R-WY) / Tom Carper (D-DE) | Drinking Water Infrastructure Act of 2020 | The measure would provide roughly \$2.5 billion in authorizations, including reauthorizing a Safe Drinking Water Act emergency fund, and \$300 million in grants for cleaning drinking water of emerging contaminants, particularly toxic PFAS. | The legislation was introduced on May 4, 2020, and referred to the Committee on Environment and Public Works. On May 11, 2020, the legislation was reported by Senator Barrasso with an amendment in the nature of a substitute, and placed on the Senate Legislative Calendar under General Orders. The legislation has bipartisan cosponsorship. |
| S.1932 | Sen. Cory Gardner (R- CO) / Sen. Dianne Feinstein(D-CA) | Drought Resiliency and Water Supply Infrastructure Act | This legislation would authorize and/or reauthorize surface and groundwater storage and supporting projects, water recycling and reuse projects, and desalination projects. It would also establish an infrastructure finance and innovation pilot program at the Bureau of Reclamation. The legislation would also establish a process to deauthorize | The legislation was introduced on June 20, 2019. The Water and Power Subcommittee of the Energy and Natural Resources Committee held hearings on July 18, 2019. A markup has not been scheduled due to disagreements between the Ranking Member and Sponsors of the legislation. Senator Dianne Feinstein is expected to release an updated version of the bill. |

| H.R. 1957 (previously S.3422) | Sen. Cory Gardner (R- CO) | Great American Outdoors Act | Restoration Fund with income from 50% of the energy development revenues from oil, gas, coal, or alternative renewable energy from Federal land from fiscal years 2021 to 2025 for deferred maintenance projects int he National Park System, National Wildlife Refuge System, on BLM Public Lands, BIA Schools, or the National Forest. The legislation would also establish permanent funding for the Land and Water Conservation Fund that would not require further appropriations from | The legislation was introduced on 3/9/2020 in the Senate. The legislation has 59 cosponsors, including Senate Majority Leader Mitch McConnell (R-KY) who has indicated he plans to fast track the legislation in the Senate. While there were initially plans to consider the legislation in March, the Senate's schedule was changed to consider the third coronavirus response bill. The legislation passed the Senate by a vote of 73-25 on June 17. The House is expected to pass the legislation in July, 2020. Majority Leader Steny Hoyer (D-MD) has indicated the legislation will go through the House Rules Committee before coming to the floor. |
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| Draft Legislation | Rep. Jared Huffman (D CA) | FUTURE Drought Act | Hegislation would create a water storage | Much of this legislation was incorporated into H.R.2 (information above). |

| S. 2356 | Sen. Mike Braun (R-IN) | Define WOTUS Act of 2019 | The measure would create a new WOTUS definition the void the previous Obama era definition that is currently tied up in litigation. | The legislation was introduced on July 31, 2019 and referred to the Committee on Environment and Public Works. |
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| S. 1087 | Sen. John Barrasso (R- WY) | Water Quality Certification Improvement Act of 2019 | The measure would amend the Federal Water Pollution Control Act to make changes with respect to water quality certification. | The measure was introduced in the Senate on April 19, 2019 and was referred to Committee on Environment and Public Works. On November 19, 2019 the committee held a hearing to discuss impacts of the act if implemented. |
| H.R. 1764 | Rep. John Garamendi (D-CA) | The bill to amend the Federal Water Pollution Act | The legislation would amend the Federal Water Pollution Control Act with respect to permitting terms, and for other purposes. | Introduced on March 15, 2019 and then referred to the Subcommittee on Water Resources and Environment. This legislation has bipartisan cosponsor ship and hearings were held on the measure in November 2019. |

| H.R.1497 | Rep. Peter DeFazio (D-OR) | Water Quality Protection and Job Creation Act of 2019 | grants to States and interstate agencies, including: State Management Assistance: Section 106(a); Watershed Pilot Projects: Section 122(c); Alternative Water Source Projects Pilot | Introduced on March 6, 2019 and referred to the Subcommittee on Water Resources and Environment of the House Transportation Committee. The Committee marked up the legislation and reported it with an amendment in the nature of a substituteexpanding the scope of the legislation. |
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| H.R. 1508 / S. 146 | Rep. Blumenauer (D- OR) / Sen. John Hoeven (R-ND) | Move America Act of 2019 | The measure would amend the Internal Revenue Code of 1986 to provide for Move America bonds and Move America credits which would be applicable to projects relating to flood diversions, inland waterways, sewage facilities. | The House bill was introduced on March 5, 2019 and then referred to the House Committee on Ways and Means. Note: All tax issues are likely to be addressed as part of a larger tax package. The Ways and Means Committee is considering forming a tax extenders package, which would be the most likely venue for this legislation. The Senate bill was introduced in the Senate on January 16th and referred to the Senate Committee on Finance. |
|-----------------------|---|---|--|---|
| H.R.1162 | Rep. Grace Napolitano (D-CA) | Water Recycling Investment and Improvement Act | This legislation would create a competitive grant program for the funding of water recycling and reuse projects by raising the authorization cap for the Title XVI program from \$50 million to \$500 million. The legislation would also raise the authorization cap from \$20 million to \$30 million for the Reclamation Wastewater and Groundwater Study and Facilities Act. | Introduced in the House on February 13, 2019. The House Natural Resources Subcommittee on Water, Oceans, and Wildlife held a hearing on the legislation on June 13, 2019. On March 11, 2020, the House Natural Resources Committee held a mark-up on the legislation and it was ordered to be reported out of Committee by a vote of 19-12. |
| S. 361/H.R. 807 | Sen. Cory Gardner (R- CO) / Rep. Ken Buck (R- CO) | Water and Agriculture Tax Reform Act of 2019 | The measure would work to amend the Internal Revenue Code of 1986 to facilitate water leasing and water transfers to promote conservation and efficiency. | Introduced and referred to the Committee on Finance (Senate) and Ways and Means Committee (House). Neither chamber has recently engaged on the measures. |

| H.R.579 | Rep. Scott Tipton (R- CO) | Water Rights Protection Act of 2019 | This bill would prohibit the conditioning of any permit, lease, or other use agreement on the transfer of any water right to the United States by the Secretaries of the Interior and Agriculture, and for other purposes. | Introduced in the House on January 15th. Referred to the Conservation and Forestry Subcommittee of the Agriculture Committee on 2/7 and to the Water, Oceans, and Wildlife Subcommittee of the House Natural Resources Committee on 2/4. A similar amendment was submitted to the House Rules Committee for consideration in the Interior-Environment Appropriations bill, but was not made in order by the Committee for floor consideration. |
|-----------|--------------------------------------|--|---|---|
| H.R.34 | Rep. Eddie Bernice Johnson (D-TX) | Energy and Water Research Integration Act of 2019 | The legislation would ensure consideration of water intensity in the Department of Energy's energy research, development, and demonstration programs to help guarantee efficient, reliable, and sustainable delivery of energy and clean water resources. | The bill was introduced in the House on January 3, 2019. It was marked up and ordered to be reported by the House Science and Technology Committee on May 1, 2019 and was passed by the House on July 23, 2019 by voice vote. On July 24, the bill was referred to the Senate Committee on Energy and Natural Resources. |
| H.R. 2313 | Rep. Jared Huffman (D- CA) | | The measure would amend the Internal Revenue Code of 1986 to expand the exclusion for certain conservation subsidies to include subsidies for water conservation or efficiency measures and storm water management measures. | The bill was introduced in the House on April 12, 2019 and then referred to the Committee on Ways and Means. Note: All tax issues are likely to be addressed as part of a larger tax package. The Ways and Means Committee is considering forming a tax extenders package, which would be the most likely venue for this legislation. |

| H.R.1747 | Rep. Rob Wittman (R- VA) | National Fish Habitat Conservation Through Partnerships Act | framework to guide future actions and investment by Fish Habitat Partnerships, | A hearing has been held in the House Natural Resources Committee on the legislation and the legislation was ordered to be reported out of committee on September 25, 2019. |
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| S.1419 | Sen. James Lankford (R-OK) | Early Participation in Regulations Act | would require agencies must outline the | On May 13, the bill was introduced into the Senate. It was then referred to the Committee on Homeland Security and Governmental Affairs. Hearings on the bill were held in both the Committee on Homeland Security and the Committee on Small Business. On July 19 the Committee on Homeland Security and Governmental Affairs ordered the measure to be reported favorably with an amendment in the nature of a substitute. On September 10, the bill was placed on the Senate Legislative Calendar under General Orders. However the bill has yet to be considered on the Senate floor. The legislation has bipartisan cosponsor ship. |
|-----------|-------------------------------|--|--|--|
| S. 1087 | Sen. John Barrasso (R- WY) | Water Quality Certification Improvement Act of 2019 | The measure would amend the Federal Water Pollution Control Act to make changes with respect to water quality certification. | The measure was introduced in the Senate on April 19 and was referred to Committee on Environment and Public Works. On November 19 the committee held a hearing to discuss impacts of the act if implemented. |
| H.R. 1695 | Rep. Betty McCollum (D-MN) | Community Services Block Grant Reauthorization Act of 2019 | The legislation would amend the Community Services Block Grant Act to reauthorize and modernize the Act. | The measure was introduced in the House on March 12, 2019 to the House Committee on Education and Labor. The legislation has bipartisan cosponsor ship. |

| H.R. 1744 | Rep. Mark Takano (D- CA) | S.T.O.R.A.G.E. Act (Storage Technology for Operational Readiness And Generating Energy Act) Energy Storage Systems by Electric Utilities | The bill would provide for the consideration of energy storage systems by electric utilities as part of a supply side resource process, and for other purposes. | The bill was introduced on March 13, 2019 and the referred to the Committee on Energy and Commerce, and in addition to the Subcommittee on Energy of the Committee on Science, Space, and Technology. |
|-----------|--------------------------------|---|--|--|
| H.R.579 | Rep. Scott Tipton (R- CO) | Water Rights Protection Act of 2019 | This bill would prohibit the conditioning of any permit, lease, or other use agreement on the transfer of any water right to the United States by the Secretaries of the Interior and Agriculture, and for other purposes. | Introduced in the House on January 15th. Referred to the Conservation and Forestry Subcommittee of the Agriculture Committee on February 7, 2019 and to the Water, Oceans, and Wildlife Subcommittee of the House Natural Resources Committee on February 4, 2019. |
| H. R. 855 | Rep. Scott Peters (D-CA) | STRONG (Strengthening the | by ensuring that the United States is | Introduced in the House and referred to the Subcommittee on Economic Development, Public Buildings, and Emergency Management of the House Transportation Committee on February 7, 2019. |
| H.R. 420 | Rep. Earl Blumenauer (D-OR) | Regulate Marijuana Like Alcohol Act | The bill would decriminalize marijuana and sets up legal framework to regulate marijuana. | Introduced in the House on January 9, 2019 and referred to the Committees on Energy and Commerce, Ways and Means, Natural Resources, and Agriculture. |

| S.420 /H.R. 1120 | Sen. Ron Wyden (D- OR) / Rep. Earl Blumenauer (D-OR) | Marijuana Revenue and Regulation Act | A bill to amend the Internal Revenue Code of 1986 to provide for the taxation and regulation of marijuana products, and for other purposes. | The bill was introduced in the Senate on February 7, 2019 and was referred to the Finance Committee. Introduced in the House on February 8, 2019 and was referred to the Committees on Judiciary, Agriculture, and Natural Resources. |
|---------------------|--|---|--|--|
| H.R. 3794 | Rep. Paul A. Gosar (R- AZ) | Public Land Renewable Energy Development Act of 2019 | The bill would work to promote the development of renewable energy on public lands | The measure was introduced in the House on July 17, 2019 and was then referred to both the Committee on Natural Resources and the Committee on Agriculture. A hearing on the bill was held on July 25 by the Subcommittee on Energy and Mineral Resources. On August 9th, the bill was referred to the Subcommittee on Conservation and Energy of the House Agriculture Committee. The measure was later referred to the Subcommittee on Energy and Mineral Resources were a hearing was held on the legislation. On November 20, 2019, a Mark-up session was held and the bill was ordered to be Reported by Voice Vote. The legislation has bipartisan cosponsor ship. |

| S. 1344 | Sen. Cory Booker (D- NJ) and Tim Scott (R-SC) | Reinstate Opportunity Zone Data Mandates | The reporting requirements were part of | The legislation was introduced in the Senate on May 7, 2019 and referred to the Finance Committee. The legislation has bipartisan cosponsor ship. |
|---------|---|---|---|--|
| H.R.535 | Rep. Debbie Dingell (D- MI) | PFAS Action Act of 2019 | The consolidated version of H.R. 535 would place these chemicals on the | The legislation was reported out of the House Energy and Commerce Committee on November 20, 2019 by a vote of 31 to 19, largely along party lines. The bill passed the House on January 10, 2020 by a vote of 247 - 159. The bill was received in the Senate on January 13, 2020 and referred to the Senate Committee on Environment and Public Works. The legislation is not expected to be considered in the Senate in its current form. |

| H.R.4236 | Rep. Quigley, Mike (D-IL) | Reducing Waste in National Parks Act | The legislation would encourage recycling and reduction of disposable plastic bottles in units of the National Park System, | The bill was introduced on September 6, 2019 and was referred to the House Subcommittee on National Parks, Forests, and Public Lands. The House Natural Resources Subcommittee on National Parks, Forests, and Public Lands held hearings on the legislation on February 27, 2020. |
|----------------------|---|--|---|---|
| S.3263 / H.R.5845 | Sen. Tom Udall (D- N.M.) and Rep. Alan Lowenthal (D-CA) | Break Free from Plastic Pollution Act of 2020 | This legislation would require plastic producers to take responsibility for collecting and recycling materials, require nationwide container deposits, ban certain pollutant products, impose a fee on the distribution of non-reusable carryout bags, create a new minimum recycled content requirement, protect state and local governments by allowing them to enact more stringent standards, requirements, and additional product bans, and give environmental agencies the valuable time needed to investigate the cumulative impacts of new plastic-producing facilities on the air, water, and climate. | The bills were introduced in the House on 2/12/2020 and in the Senate on 2/11/2020. In the House, the legislation has been referred to the following committees: Energy and Commerce, Ways and Means, Transportation and Infrastructure, and Foreign Affairs. In the Senate, the legislation has been referred to the Finance Committee. |
| | | Enacted Legislation | (removed from report after 2 months) | |

| H.R.266 | Sen. Mitch McConnell (R-KY) | Paycheck Protection Program and Health Care Enhancement Act (Coronavirus 3.5 response legislation) | The measure includes an immediate \$321 billion infusion for the Paycheck Protection Program, the small business rescue fund that ran out of money last week. The package also provides another \$60 billion in economic disaster loans for | Passed unanimously by the Senate April 21, 2020. Passed by the House with a vote of 388-5-1 on April 23, 2020. |
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INFORMATION ITEM

4L



Date: June 25, 2020

To: Inland Empire Utilities Agency

From: John Withers, Jim Brulte

Re: California Strategies, LLC June 2020 Activity Report

- 1. This month Jim Brulte and John Withers participated in the monthly senior staff meeting June 1st via Teams due to the Coronavirus.
- 2. California Strategies is providing the General Manager and senior staff daily updates on the Governors' press conferences through Kathy Besser. California Strategies is also providing information from other leading agencies related to the Covid 19 response.
- 3. California Strategies is also providing current information on the State Budget and activities of the Governor and Legislature related to it.
- 4. Chino Basin Program
 - There was a discussion about the Chino Basin Program. The Program will still need to do projects to meet permit requirements.
 - Did some local info gathering for the Senior Staff
- 5. Discussed regional personnel changes and potential impacts at IEUA.
- 6. Member Questions and Answers
 - Answered questions from IEUA Board members and the GM since the meeting.

AGENCY REPRESENTATIVES' REPORTS

5A



SAWPA

SANTA ANA WATERSHED PROJECT AUTHORITY

11615 Sterling Avenue, Riverside, California 92503 • (951) 354-4220

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, ANY COMMISSION MEMBER MAY CALL INTO THE COMMISSION MEETING WITHOUT OTHERWISE COMPLYING WITH THE BROWN ACT'S TELECONFERENCING REQUIREMENTS.

VIRTUAL ACCESSIBILITY FOR THE GENERAL PUBLIC:

Due to the spread of COVID-19, and until further notice, the Santa Ana Watershed Project Authority will be holding all upcoming Board and Committee meetings by teleconferencing and virtually through Zoom.

This meeting will be accessible as follows:

| Meeting Access Via Computer (Zoom)*: | Meeting Access Via Telephone*: | | | | |
|--|---|--|--|--|--|
| https://sawpa.zoom.us/j/92670013722 | • 1 (669) 900-6833 | | | | |
| Meeting ID: 926 7001 3722 | Meeting ID: 926 7001 3722 | | | | |
| Participation in the meeting via the Zoom app (a free download) is strongly encouraged; there is no way to protect your privacy if you elect to call in by phone to the meeting. | | | | | |

All votes taken during this meeting will be conducted by oral roll call.

REGULAR COMMISSION MEETING TUESDAY, JULY 7, 2020 – 9:30 A.M.

AGENDA

- 1. CALL TO ORDER/PLEDGE OF ALLEGIANCE (David J. Slawson, Chair)
- 2. ROLL CALL
- 3. PUBLIC COMMENTS

Members of the public may address the Commission on items within the jurisdiction of the Commission; however, no action may be taken on an item not appearing on the agenda unless the action is otherwise authorized by Government Code §54954.2(b).

4. ITEMS TO BE ADDED OR DELETED

Pursuant to Government Code §54954.2(b), items may be added on which there is a need to take immediate action and the need for action came to the attention of the Santa Ana Watershed Project Authority subsequent to the posting of the agenda.

5. CONSENT CALENDAR

All matters listed on the Consent Calendar are considered routine and non-controversial and will be acted upon by the Commission by one motion as listed below.

A. APPROVAL OF MEETING MINUTES: JUNE 16, 2020

Recommendation: Approve as posted.

B. TREASURER'S REPORT – MAY 2020

Recommendation: Approve as posted.

6. <u>NEW BUSINESS</u>

A. SAWPA PARKING LOT RESTORATION (CM#2020.47)

Presenter: Carlos Quintero

Recommendation: Approve the use of \$23,776.16 from the Building Reserve Fund for the

SAWPA Parking Lot Restoration Project.

B. TRIBAL ADVISORY COMMITTEE STATUS | DISADVANTAGED COMMUNITIES INVOLVEMENT (DCI) PROGRAM (CM#2020.46)

[This item is subject to the provisions of Project Agreement 25]

Presenter: Mark Norton | Thomas Keegan, California Rural Water Association

Recommendation: Receive and file; provide feedback and direction.

C. <u>LAKE ELSINORE & SAN JACINTO WATERSHEDS AUTHORITY AND LAKE</u> <u>ELSINORE/CANYON LAKE NUTRIENT TMDL TASK FORCE UPDATE AND FYE</u> <u>2021 GOALS (CM#2020.45)</u>

[This item is subject to the provisions of Project Agreement 26]

Presenter: Mark Norton

Recommendation: Receive and file.

7. INFORMATIONAL REPORTS

Recommendation: Receive for information.

A. <u>AUDIT COMMUNICATION LETTER FOR FYE JUNE 30, 2020 – TEAMAN,</u>

RAMIREZ & SMITH, INC.
Presenter: Karen Williams

B. CHAIR'S COMMENTS/REPORT

C. <u>COMMISSIONERS' COMMENTS</u>

D. <u>COMMISSIONERS' REQUEST FOR FUTURE AGENDA ITEMS</u>

8. <u>CLOSED SESSION</u>

There were no Closed Session items anticipated at the time of the posting of this agenda.

9. ADJOURNMENT

Americans with Disabilities Act: If you require any special disability related accommodations to participate in this meeting, call (951) 354-4230 or email kberry@sawpa.org. 48-hour notification prior to the meeting will enable staff to make reasonable arrangements to ensure accessibility for this meeting. Requests should specify the nature of the disability and the type of accommodation requested.

Materials related to an item on this agenda submitted to the Commission after distribution of the agenda packet are available for public inspection during normal business hours at the SAWPA office, 11615 Sterling Avenue, Riverside, and available at www.sawpa.org, subject to staff's ability to post documents prior to the meeting.

Declaration of Posting

I, Kelly Berry, Clerk of the Board of the Santa Ana Watershed Project Authority declare that on July 1, 2020, a copy of this agenda has been uploaded to the SAWPA website at www.sawpa.org and posted at the SAWPA office, 11615 Sterling Avenue, Riverside, California.

| /s/ | | |
|------------------|--|---|
| Kelly Berry, CMC | | _ |

2020 SAWPA Commission Meetings/Events

First and Third Tuesday of the Month

(NOTE: Unless otherwise noticed, all Commission Workshops/Meetings begin at 9:30 a.m. and are held at SAWPA.)

| January | | February | |
|-------------|---------------------------------------|-------------|--|
| 1/7/20 | Commission Workshop [cancelled] | 2/4/20 | Commission Workshop |
| 1/21/20 | Regular Commission Meeting | 2/18/20 | Regular Commission Meeting |
| March | | April | |
| 3/3/20 | Commission Workshop | 4/7/20 | Commission Workshop |
| 3/17/20 | Regular Commission Meeting | 4/21/20 | Regular Commission Meeting |
| May | | June | • |
| 5/5/20 | Commission Workshop | 6/2/20 | Commission Workshop [cancelled] |
| 5/19/20 | Regular Commission Meeting | 6/16/20 | Regular Commission Meeting |
| July | | August | |
| 7/7/20 | Commission Workshop | 8/4/20 | Commission Workshop |
| 7/21/20 | Regular Commission Meeting | 8/18/20 | Regular Commission Meeting |
| 7/28 - 7/31 | 1/20 ACWA Spring Conference, Monterey | | |
| September | r | October | |
| 9/1/20 | Commission Workshop | 10/6/20 | Commission Workshop |
| 9/15/20 | Regular Commission Meeting | 10/20/20 | Regular Commission Meeting |
| November | • | December | |
| 11/3/20 | Commission Workshop | 12/1/20 | Commission Workshop |
| 11/17/20 | Regular Commission Meeting | 12/1 - 12/4 | /20 ACWA Fall Conference, Indian Wells |
| | | 12/15/20 | Regular Commission Meeting |

AGENCY REPRESENTATIVES' REPORTS

5B





Regular Board Meeting July 14, 2020 12:00 p.m.

| Tuesday, July 14, 2020 | | | | |
|------------------------|----------|--|--|--|
| Meeting | Schedule | | | |
| 10:30 AM E&O | | | | |
| 12:00 PM | Board | | | |

Live streaming is available for all board and committee meetings on our mwdh2o.com website (Click to Access Board Meetings Page)

Public Comment Via Teleconference Only: Members of the public may present their comments to the Board on matters within their jurisdiction as listed on the agenda via teleconference only. To participate call (404) 400-0335 and use Code: 9601962.

MWD Headquarters Building

700 N. Alameda Street

Los Angeles, CA 90012

1. Call to Order

(a) Invocation: Tania Asef, Associate Environmental Specialist,

Environmental Planning Section, Chief Administrative

Office

(b) Pledge of Allegiance: Director Richard Atwater,

Foothill Municipal Water District

2. Roll Call

3. Determination of a Quorum

- **4.** Opportunity for members of the public to address the Board on matters within the Board's jurisdiction. (As required by Government Code Section 54954.3(a))
 - Commendation Presentation: Roberto F. Salmón Castelo, Commissioner of the International Boundary and Water Commission, Mexico

5. OTHER MATTERS AND REPORTS

A. Report on Directors' events attended at Metropolitan expense for month of June 2020

Date of Notice: July 2, 2020

- B. Chairwoman's Monthly Activity Report
- C. General Manager's summary of activities for the month of June 2020
- D. General Counsel's summary of activities for the month of June 2020
- E. General Auditor's summary of activities for the month of June 2020
- F. Ethics Officer's summary of activities for the month of June 2020
- G. Presentation of Commendatory Resolution for Director Vartan Gharpetian representing the City of Glendale

CONSENT CALENDAR ITEMS — ACTION

6. CONSENT CALENDAR OTHER ITEMS - ACTION

- A. Approval of the Minutes of the Meeting for June 9, 2020 (Copies have been submitted to each Director)
 Any additions, corrections, or omissions
- B. Approve committee assignments
- C. Approve Commendatory Resolution for Director Brett R. Barbre representing Municipal Water District of Orange County
- D. Adopt motion to adjourn the August Board Meeting to August 18, 2020, to establish tax rate. (Committees to meet on August 17 and 18, 2020)

7. CONSENT CALENDAR ITEMS — ACTION

- 7-1 Authorize an agreement with AVI-SPL, Inc. in an amount not-to-exceed \$3.75 million for the procurement and deployment of upgraded audiovisual technology systems at Metropolitan's Headquarters Building for the Boardroom Technology Upgrade Project; the General Manager has determined the proposed action is exempt or otherwise not subject to CEQA. (OP&T)
- 7-2 Approve Process for General Manager Recruitment. (OP&T) [Posting Separately]
- 7-3 Review and consider Addendum No. 1 to the 2015 Mitigated Negative Declaration, and award a \$3,270,000 contract to Kiewit Infrastructure West Co to reline pipe and replace pipefittings at the Lake Perris Control Facility and on the Lakeview Pipeline. (E&O)
- 7-4 Award a \$5,410,000 contract to J.F. Shea Construction, Inc. to reline a portion of the Lake Perris Bypass Pipeline; the proposed action is in furtherance of a project that was previously determined to be exempt or otherwise not subject to CEQA. (E&O)
- Authorize an amendment to a professional services agreement with Systems Integrated, LLC, for up to six years in an amount not-to-exceed \$362,000 annually, to provide support and maintenance of Metropolitan's existing Supervisory Control and Data Acquisition system; the General Manager has determined the proposed action is exempt or otherwise not subject to CEQA. (E&O)
- 7-6 Review and consider the Lead Agency's adopted Negative Declaration and Addendum and take related CEQA actions, and adopt resolution for 111th Fringe Area Annexation to Eastern Municipal Water District and Metropolitan
- 7-7 Authorize payments, by a two-thirds vote, of up to \$3.97 million for participation in the State Water Contractors for fiscal year 2020/21; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA. (WP&S) [Two-Thirds vote required at Board]

- 7-8 Review and consider the Padre Dam Municipal Water District's approved Mitigated Negative Declaration for the East County Advanced Water Purification Project and take related CEQA actions; and authorize the General Manager to enter into a Local Resources Program Agreement with San Diego County Water Authority and the East County Advanced Water Purification Program Joint Powers Authority. (WP&S)
- 7-9 Review and consider the City of Escondido's approved Mitigated Negative Declaration for the Escondido Membrane Filtration Reverse Osmosis Facility Project and take related CEQA actions; and authorize the General Manager to enter into a Local Resources Program Agreement with San Diego County Water Authority and the City of Escondido for the Project. (WP&S)

END OF CONSENT CALENDAR ITEMS

8. OTHER BOARD ITEMS - ACTION

8-1 Consider implications of board action to suspend collection of the Water Stewardship Rate and impacts of the COVID-19 pandemic on Metropolitan's budget and rates, and confirm Metropolitan's commitment to demand management programs and the Local Resources Program goal; the General Manager has determined that the proposed actions are exempt or otherwise not subject to CEQA. (WP&S)

9. BOARD INFORMATION ITEMS

- **9-1** Update on Conservation Program
- **9-2** Communications and Legislation Committee Report

10. OTHER BOARD ITEMS

10-1 Update on Upcoming Department Head Performance Evaluations Process

- 11. FOLLOW-UP ITEMS
- 12. FUTURE AGENDA ITEMS
- 13. ADJOURNMENT

NOTE: Each agenda item with a committee designation will be considered and a recommendation may be made by one or more committees prior to consideration and final action by the full Board of Directors. The committee designation appears in parentheses at the end of the description of the agenda item e.g., (E&O, F&I). Committee agendas may be obtained from the Board Executive Secretary.

Writings relating to open session agenda items distributed to Directors less than 72 hours prior to a regular meeting are available for public inspection at Metropolitan's Headquarters Building and on Metropolitan's Web site http://www.mwdh2o.com.

Requests for a disability related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting should be made to the Board Executive Secretary in advance of the meeting to ensure availability of the requested service or accommodation.

Date of Notice: July 2, 2020

AGENCY REPRESENTATIVES' REPORTS

5C



Regional Sewerage Program Policy Committee Meeting

AGENDA Thursday, July 2, 2020 3:30 p.m. Teleconference Call

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 ANY COMMITTEE MEMBER MAY CALL INTO THE COMMITTEE MEETING WITHOUT OTHERWISE COMPLYING WITH ALL BROWN ACT'S TELECONFERENCE REQUIREMENTS.

In effort to prevent the spread of COVID-19, the Regional Sewerage Program Policy Committee Meeting will be held remotely by teleconference

Teleconference: 1-415-856-9169/Conference ID: 750 724 224#

This meeting is being conducted virtually by video and audio conferencing. There will be no public location available to attend the meeting; however, the public may participate and provide public comment during the meeting by calling into the number provided above. Alternatively, you may email your public comments to the Recording Secretary Sally H. Lee at shlee@ieua.org no later than 24 hours prior to the scheduled meeting time. Your comments will then be read into the record during the meeting.

Call to Order/Flag Salute

Roll Call

Public Comment

Members of the public may address the Committee on any item that is within the jurisdiction of the Committee; 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. <u>Comments will be limited to three minutes per speaker.</u>

Additions/Deletions 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. Technical Committee Report (Oral)

Regional Contract Negotiations Update

2. Action Item

- A. Meeting Minutes for June 4, 2020
- B. IEUA FY 2020/21 Adoption of Regional Wastewater, Recycled Water, Recharge Water, Water Resources, and NRW Budget Amendments
- C. RP-4 Aeration Basin Wall Repair Construction Contract Award
- D. RP-5 Expansion Project Construction Contract Award

3. Informational Items

A. Return to Sewer Pilot Study Update

4. Receive and File

- A. Building Activity Report
- B. Recycled Water Distribution Operations Summary

5. Other Business

- A. IEUA General Manager's Update
- B. Committee Member Requested Agenda Items for Next Meeting
- C. Committee Member Comments
- D. Next Meeting August 6, 2020 (to be chaired by City of Upland)

6. Adjournment

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Recording Secretary (909) 993-1944, 48 hours prior to the scheduled meeting so that the Agency can make reasonable arrangements.

DECLARATION OF POSTING

Sally H. Leé

I, Sally H. Lee, Executive Assistant of the Inland Empire Utilities Agency, A Municipal Water District, hereby certify that a copy of this agenda has been posted to the IEUA Website at www.ieua.org and posted in the foyer at the Agency's main office at 6075 Kimball Avenue, Building A, Chino, CA, on Thursday, June 25, 2020.

AGENCY REPRESENTATIVES' REPORTS

5D

CHINO BASIN WATERMASTER WATERMASTER BOARD MEETING

11:00 a.m. – June 25, 2020 Mr. Jeff Pierson – Chair Mr. Jim Curatalo – Vice-Chair

Meeting Available by Remote Access Only*
Click on this <u>link</u> to access by PC/Smart Device

OR

Conference Call: (224) 501-3412 Code: 903-152-621

AGENDA

CALL TO ORDER

ROLL CALL

PUBLIC COMMENTS

AGENDA - ADDITIONS/REORDER

I. CONSENT CALENDAR

Note: All matters listed under the Consent Calendar are considered to be routine and non-controversial and will be acted upon by one motion in the form listed below. There will be no separate discussion on these items prior to voting unless any members, staff, or the public requests specific items be discussed and/or removed from the Consent Calendar for separate action.

A. MINUTES

Approve as presented:

- 1. Minutes of the Watermaster Board Special Meeting held May 22, 2020
- 2. Minutes of the Watermaster Board Meeting held May 28, 2020

B. FINANCIAL REPORTS

Receive and file as presented:

- 1. Cash Disbursements for the month of April 2020
- 2. Watermaster VISA Check Detail for the month of April 2020
- 3. Combining Schedule for the Period July 1, 2019 through April 30, 2020
- 4. Treasurer's Report of Financial Affairs for the Period April 1, 2020 through April 30, 2020
- 5. Budget vs. Actual Report for the Period July 1, 2019 through April 30, 2020
- 6. Cash Disbursements for May 2020 (Information Only)
- C. 2019 PRADO BASIN HABITAT SUSTAINABILITY COMMITTEE ANNUAL REPORT Receive and file as presented.
- D. PROFESSIONAL PUBLIC OUTREACH SERVICES CONTRACT BETWEEN RAUCH COMMUNICATION CONSULTANTS INC. AND CHINO BASIN WATERMASTER

Approve and authorize the General Manager to execute the contract on behalf of Watermaster.

E. PROFESSIONAL SERVICES AGREEMENT BETWEEN APPLIED COMPUTER TECHNOLOGIES AND CHINO BASIN WATERMASTER

Approve and authorize the General Manager to execute the contract on behalf of Watermaster.

F. FISCAL YEAR 2020/21 PAY SCHEDULE

Adopt the FY 2020/21 Pay Schedule.

II. BUSINESS ITEMS

None

III. REPORTS/UPDATES

A. LEGAL COUNSEL REPORT

- 1. San Bernardino County Superior Court Emergency Order
- 2. June 26, 2020 Hearing

B. ENGINEER REPORT

- Equipping Extensometers at PX
- 2. Responding to Various RFIs

C. CFO REPORT

- 1. Status of Exhibit "G" Transaction
- 2. FY 2019/20 Ongoing Auditing Activity by Fedak & Brown, LLP

D. GM REPORT

- 1. Status Report: OBMP IP Update
- 2. Status Report: OAP Contest
- 3. Other

IV. INFORMATION

None

V. BOARD MEMBER COMMENTS

VI. OTHER BUSINESS

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

Pursuant to Article 2.6 of the Watermaster Rules & Regulations, a Confidential Session may be held during the Watermaster Board meeting for the purpose of discussion and possible action.

1. General Manager Performance Evaluation

VIII. FUTURE MEETINGS AT WATERMASTER*

| 6/25/20 | Thu | 11:00 a.m. | Watermaster Board |
|---------|-----|------------|-----------------------|
| 7/09/20 | Thu | 9:00 a.m. | Appropriative Pool |
| 7/09/20 | Thu | 11:00 a.m. | Non-Agricultural Pool |
| 7/09/20 | Thu | 1:30 p.m. | Agricultural Pool |
| 7/16/20 | Thu | 9:00 a.m. | Advisory Committee |
| 7/23/20 | Thu | 11:00 a.m. | Watermaster Board |

*NOTE: Due to the uncertainty related to COVID-19, and for the safeguarding of all, Watermaster meetings will continue to be held remotely until further notice. Remote access to the open portions of the meetings will be provided with each meeting notice. Confidential session numbers will be provided directly to Board Members/Alternates separately.

ADJOURNMENT

AGENCY REPRESENTATIVES' REPORTS

5E

REGULAR BOARD MEETING OF THE BOARD OF DIRECTORS CHINO BASIN DESALTER AUTHORITY

July 2, 2020 2:00 p.m.

NOTICE AND AGENDA

According to the directives from the California Department of Public Health and Executive Order issued by Governor Gavin Newsom, members of the public are invited to participate via video or teleconference:

To join teleconference: Dial-in #: (669) 900 6833 Zoom Meeting ID: 839 2960 8760

To join video conference: Click on link: Join Zoom Meeting

Or copy and paste: https://us02web.zoom.us/j/83929608760

Or go to https://zoom.us/ and join using Meeting ID: 839 2960 8760

CALL TO ORDER

ROLL CALL

PUBLIC COMMENT

Members of the public may address the Board of Directors on any item that is within the jurisdiction of the Chino Basin Desalter Authority; 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 of Directors on any matter, whether or not it appears on the agenda, are requested to submit their request to comment to the Board Secretary no less than one hour prior to the start of the meeting at (909) 218-3230 or ccosta@chinodesalter.org

Under the provisions of the Brown Act, the CDA Board is prohibited from taking action on non-agendized matters. However, Board Members may respond briefly or refer the communication to staff. The CDA Board may also request the Secretary to calendar an item related to your communication at a future CDA Board meeting.

CONSENT CALENDAR ITEMS

Consent Calendar items are expected to be routine and non-controversial to be acted upon by the Board at one time without discussion. If any Board member, staff member, or interested person requests that an item be removed from the Consent Calendar, it will be moved to the first item on the Action Items.

- 1. MINUTES OF JUNE 4, 2020 SPECIAL BOARD MEETING
- 2. TREASURER'S FINANCIAL AFFAIRS REPORT FOR QUARTER ENDED MARCH 2020 Report by: Jose Garcia, CDA Principal Accountant
- 3. TREASURER'S REPORT ON GENERAL DISBURSEMENTS FOR THE QUARTER ENDED MARCH 2020

Report by: Jose Garcia, CDA Principal Accountant

4. BUDGET VARIANCE REPORT FOR THE QUARTER ENDED MARCH 2020Report by: Jose Garcia, CDA Principal Accountant

5. INVESTMENT REPORT

Report by: Jose Garcia, CDA Principal Accountant

ACTION ITEMS

Prior to action of the CDA Board, any member of the public will have the opportunity to address the CDA Board on any item listed on the agenda by submitting written comments at least one hour prior to the start of the meeting at (909) 218-3230 or ccosta@chinodesalter.org. Please note the agenda item number in your email.

Comments will be read aloud during the meeting by the Board Secretary.

6. APPOINTMENT OF REPRESENTATIVE ON THE ACWA/JPIA BOARD OF DIRECTORS

Report By: Thomas O'Neill, CDA General Manager/CEO

Staff Recommendation:

1. Appoint a Representative on the Association of California Water Agencies/Joint Powers Insurance Authority (ACWA/JPIA) Board of Directors.

7. CHINO AIRPORT PLUME PROJECT: AMENDMENT 1 TO HAZEN & SAWYER'S AGREEMENT FOR DESIGN OF CHINO I DESALTER VOC TREATMENT FACILITY

Report By: Thomas O'Neill, CDA General Manager/CEO

Staff Recommendation:

- 1. Approve an amendment to the professional services agreement with Hazen and Sawyer for engineering design services in the not-to-exceed amount of \$138,368; and
- 2. Authorize the General Manager/CEO to finalize and execute the amendment, with subsequent authorizations up to a not-to-exceed total of \$1,244,914.

8. PROFESSIONAL SERVICES AGREEMENT FOR ON-CALL SUPPORT SERVICES FOR CONCENTRATE REDUCTION FACILITY OPERATIONS

Report By: Thomas O'Neill, CDA General Manager/CEO

Staff Recommendation:

- 1. Approve a Professional Services Agreement with Carollo Engineers, Inc., in the not-to-exceed amount of \$150,000 for concentrate reduction facility operations support services for FY 2020/21; and
- 2. Authorize the General Manager/CEO to finalize and execute the agreement and approve up to \$150,000 in authorized expenditures.

9. ADOPTION OF REVISED CURRENT INVESTMENT POLICY

Report By: Michael Chung, CDA CFO/Treasurer

Staff Recommendation:

- 1. Review the attached Chino Basin Desalter Authority Investment Policy, as submitted; and
- 2. Adopt Resolution 2021-01 approving CDA's Investment Policy for FY 2020/21.

INFORMATION ITEMS

10. QUARTERLY SOUTH ARCHIBALD PLUME REPORT

Report By: Cindy Miller, South Archibald Plume Program Manager

11. QUARTERLY OPERATIONS REPORT

Report By: Thomas O'Neill, CDA General Manager/CEO

STAFF COMMENTS

- i. Deputy CDA General Counsel, Allison Burns
- ii. CDA CFO/Treasurer, Michael Chung
- iii. CDA General Manager/CEO, Thomas O'Neill

CLOSED SESSION

The Authority may adjourn to a Closed Session to consider litigation matters, personnel matters, or other matters as provided for in the Ralph M. Brown Act (Section 54950 et seq., of the Government Code).

12. CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION: CONSIDERATION OF INITIATION OF LITIGATION PURSUANT TO GOVERNMENT CODE SECTION 54956.9(D)(4)

(TWO POTENTIAL CASES)

13. CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION: SIGNIFICANT EXPOSURE TO LITIGATION PURSUANT TO GOVERNMENT CODE SECTION 54956.9(D)(2)

(TWO POTENTIAL CASES)

DIRECTOR COMMENTS

ADJOURN

Any person with a disability who requires accommodations in order to participate in this meeting or for package materials in an alternative format should telephone Executive Assistant Casey Costa at (909) 218-3730, at least 48 hours prior to the meeting in order to make a request for a disability-related modification or accommodation. All accommodation requests will be handled swiftly and resolving all doubts in favor of access Copies of records provided to Board Members which relate to any agenda item to be discussed in open session may be obtained from Chino Basin Desalter Authority at 3550 Philadelphia Street, Suite 170., Ontario, CA 91761.

Declaration of Posting

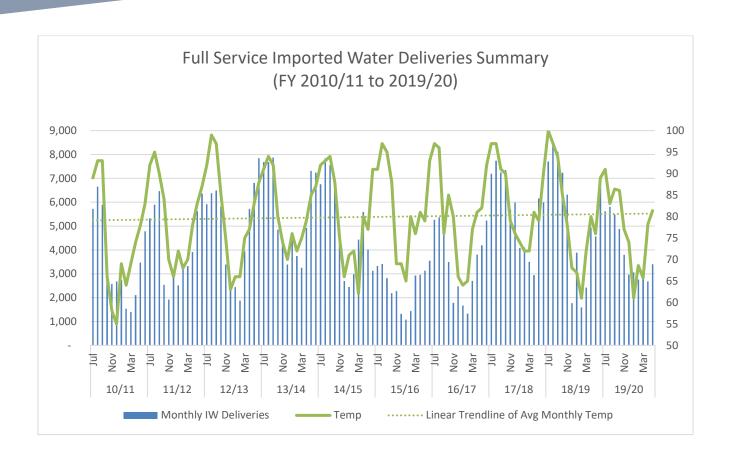
I, Casey Costa, Executive Assistant to the Chino Basin Desalter Authority, hereby certify that a copy of this agenda has been posted by 2:00 p.m. at the Chino Basin Desalter Authority's main office, 3550 Philadelphia Street, Suite 170., Ontario, CA on Monday, June 29, 2020.

Casey Costa, Executive Assistant

GENERAL MANAGER'S REPORT



Planning & Environmental Resources A. Imported Water



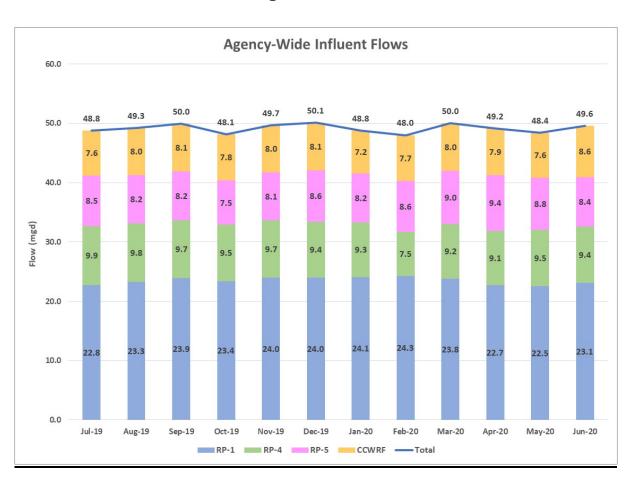


Planning & Environmental Resources (cont.)

B. Reclamation System

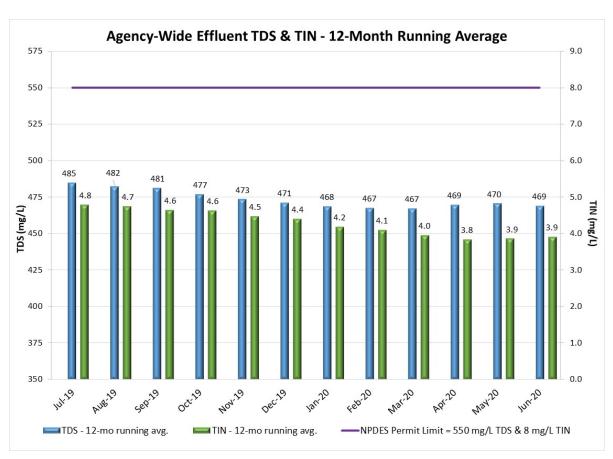
Regional Plants 1, 4, 5 and Carbon Canyon Water Recycling Facility met all the NPDES requirements and effluent/recycled water limitations.

IEUA Regional Influent Flows





Planning & Environmental Resources (cont.)



C. Air Quality

The South Coast Air Quality Management District (SCAQMD) completed a remote inspection of records for Regional Plant 1 (RP-1) and determined that IEUA was in violation of flare exceedances in 2017, 2018, 2019, and 2020 along with two missed sulfur samples in the 4th quarter of 2018 and the 2nd quarter of 2019. The noted flare exceedances were for events after the date of issuance of the last notice of violation (NOV).

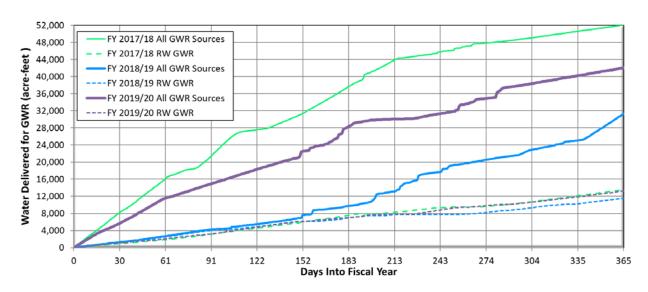


Operations & Regional Composting Facility D. Recycled Water

1. Groundwater Recharge

During June 2020, recycled water delivery for recharge totaled 1,381 acre-feet. There were no rain events during the month. Dry weather flow capture is preliminarily estimated at 17 acre-feet. There was no recharge of imported water from MWD during the month. There was 435 acre-feet of imported water recharge from SAWCo. For supplemental water deliveries (imported and recycled), Chino Basin Watermaster will remove 4.2% for evaporation losses during the month of June. Considering evaporation losses, total recharge for the month is preliminarily estimated at 1,757 acre-feet.

Total Groundwater Recharge & Recycled Water Delivered to Groundwater Recharge – through June 2020

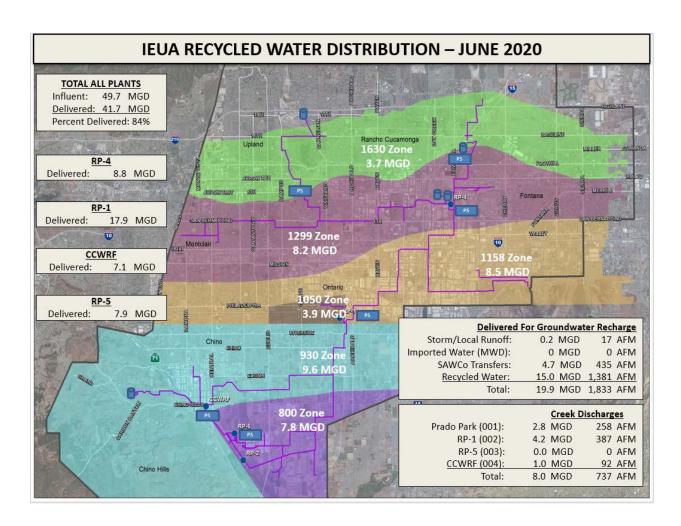




Operations & Regional Composting Facility (cont.)

E. Recycled Water Distribution

During June 2020, 84% (41.7 MGD) of IEUA recycled water supply (49.7 MGD) was delivered into the distribution system for direct use customers (26.7 MGD) and groundwater recharge (15.0 MGD). Plant discharge to creeks feeding the Santa Ana River averaged 8.0 MGD.





Operations & Regional Composting Facility (cont.)

F. Operational Comments

Facility throughput for June averaged approximately 86% of permitted capacity at an average of 386 tons per day of biosolids and 120 tons per day of amendments (based on the 30-day month-to-date). Biosolids volumes and revenue exceeded expectations for the fiscal year at 98% of capacity. The facility is operating well with no violations, environmental compliance issues, or lost-time incidents.

G. Biosolids Summary

| SOURCE | WET TONS MONTH | WET TONS FISCAL YEAR-TO- DATE | REVENUE MONTH | REVENUE FISCAL YEAR- TO-DATE |
|--|----------------------|-------------------------------------|------------------|------------------------------------|
| Los Angeles County Sanitation District | 4,657.61 | 68,891.42 | \$260,826.16 | \$3,857,919.52 |
| Inland Empire Utilities Agency | 6,172.23 | 71,551.73 | \$345,644.88 | \$4,006,896.88 |
| Orange County Sanitation District | 744.23 | 7,162.63 | \$43,165.34 | \$415,432.54 |
| TOTAL | 11,574.07 | 147,605.78 | \$649,636.38 | \$8,280,248.94 |

H. Compost Summary

June sales volume has increased over the same period last year due to an increased demand from our retail landscape segment. Demand for compost has increased significantly and is expecting to outpace production for the remainder of the year.

Compost Monthly Sales

| CUBIC YARD | \$/CUBIC YARD | TOTAL REVENUE |
|------------|---------------|---------------|
| 20,988.91 | \$1.88 | \$39,539.26 |



Operations & Regional Composting Facility (cont.)

I. Operational Comments

Fiscal Year-To-Date Sales Summary

| MONTH | TOTAL YARDS 2019/2020 | TOTAL YARDS 2018/2019 | TOTAL REVENUE 2019/2020 | TOTAL REVENUE 2018/2019 |
|-----------|--------------------------|--------------------------|----------------------------|----------------------------|
| July | 15,197.96 | 14,910.11 | \$26,993.99 | \$24,972.01 |
| August | 18,235.92 | 15,194.50 | \$47,097.00 | \$28,866.84 |
| September | 11,554.41 | 17,728.97 | \$18,735.36 | \$24,979.50 |
| October | 24,986.59 | 19,523.68 | \$37,115.24 | \$28,489.44 |
| November | 25,873.18 | 22,037.03 | \$26,834.01 | \$28,310.45 |
| December | 25,748.13 | 17,885.11 | \$17,219.37 | \$21,300.70 |
| January | 19,719.66 | 18,469.01 | \$27,315.97 | \$16,332.32 |
| February | 16,005.15 | 14,605.08 | \$28,364.01 | \$16,386.55 |
| March | 15,851.95 | 15,100.65 | \$25,664.06 | \$28,272.72 |
| April | 15,476.33 | 15,100.65 | \$33,831.44 | \$28,272.72 |
| May | 22,655.74 | \$15,485.75 | \$37,626.06 | \$33,345.01 |
| June | 20,988.91 | 16,343.14 | \$39,539.26 | \$25,660.58 |
| TOTAL | 232,293.93 | 202,383.68 | \$366,335.77 | \$305,188.84 |
| AVERAGE | 19,357.83 | 16,865.31 | \$30,527.98 | \$25,432.40 |



Grants Department

J. Grant/Loan Applications Submitted

None.

K. Grant/Loan Applications in Process

1. The Grants Department is preparing two applications for the U.S. Bureau of Reclamation's (USBR) WaterSMART Water and Energy Efficiency Grants Program for FY 2021. IEUA will submit one application for a program that focuses on water conservation through irrigation controller replacement or retrofit and another application to supplement residential and commercial costs for turf removal. Applications are due in September and awards are expected to be announced in early 2021.

L. Grant/Loan Agreement Negotiation

- The State Water Resources Control Board (SWRCB) is in the final review stages for several Clean Water State Revolving Fund (CWSRF) loan agreements. The following agreements are expected to be issued within the next three to six months and will support the Agency's cash flow process.
 - a. RP-1 1158 Zone Pump Station Upgrades \$6.7M
 - b. RP-5 Pipeline Bottleneck \$3.1M
 - c. IEUA-JCSD RW Intertie \$30.5M
 - d. RP-5 Expansion Project \$101.5M
 - e. Wineville/Jurupa/RP-3 Basin Improvements \$8.8M
 - f. Lower Day Basin Improvements \$2.9M
 - g. Montclair Basin Improvements \$1.8M

General Manager's Report July 2020



Grants Department (cont.)

M. Grant Reimbursements Processed and Reporting Activities

- 1. Grant reimbursements were processed for:
 - a. SWRCB SRF Loan Napa Lateral Final Invoice #7 for \$412,607.00
 - b. USBR The Chino Basin Water Marketing Strategic Plan Invoice #1 for \$232,194.21
 - c. USBR RP-3 Basin Improvement Invoice #3 for \$27,450.64
 - d. USBR Update of Drought Contingency Plan Invoice #6 \$1,949.30

N. Other Department Activities

1. None.

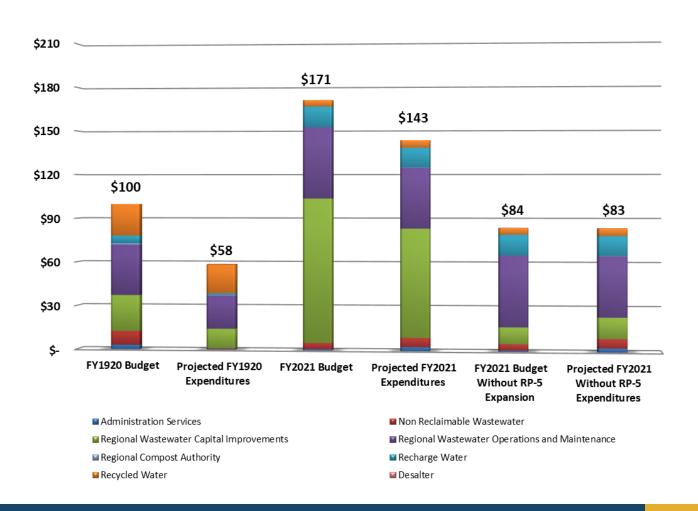


Engineering & Construction Management Department

O. Engineering & Construction Management Department Update

Engineering and Construction Management's current FY 2019/20 budget is \$99,616,002. As of June 30th, staff has projected to spend \$58,413,454 (~59%). Engineering and Construction Management's FY 2020/21 budget is \$170,682,194. As of June 30th, staff has projected to spend \$143,197,245 (~84%). The Engineering and Construction Management's FY 2020/21 budget, without the RP-5 Expansion Project, is \$83,624,885. Of which, staff has projected to spend \$83,466,867 (~100%).

Engineering and Construction Management FY 19/20 Budget Status Update





Engineering & Construction Management Department (cont.)

The accompanying attachments have detailed information for IEUA's capital improvement program.

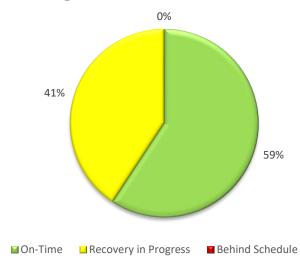
- Attachment A: Bid and Award Look Ahead Schedule
- Attachment B: Active Capital Improvement Project Status
- Attachment C: Emergency Projects

Attachment A Bid and Award Look Ahead Schedule

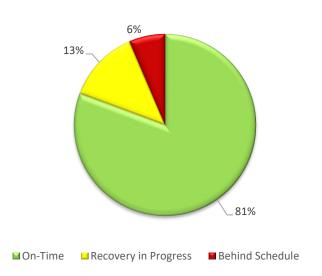
| | Bid and Award Look Ahead Schedule | | |
|----|---|----------------------------------|--------------------------------|
| | Project Name | Projected Bid Opening Date | Projected Bid Award Date |
| | Aug-20 | | |
| 1 | EN20058.00 RP-1 TP-1 Waste Wash Water Basin Pumps Replacement | 30-Jun-20 | 19-Aug-20 |
| | Sep-20 | | |
| 2 | EN17041.00 Orchard Recycled Water Turnout Improvements | 16-Jul-20 | 16-Sep-20 |
| 3 | EN20041.00 RP-1 TP-1 Bleach Mixing Repairs | 5-Aug-20 | 16-Sep-20 |
| 4 | EN20040.00 HQ Driveway Safety Improvements | 4-Aug-20 | 16-Sep-20 |
| | Oct-20 | | |
| 5 | RW15003.06 Wineville/Jurupa/Force Main Improvements | 15-Sep-20 | 21-Oct-20 |
| 6 | EN19027.00 NRW Pipeline Relining Along Cucamonga Creek | 1-Sep-20 | 21-Oct-20 |
| | Nov-20 | | |
| 7 | EN20065.00 RP-1 Solids Hot Water Loop Valves | 7-Oct-20 | 18-Nov-20 |
| 8 | RW15003.03 Montclair Basin Improvements | 14-Sep-20 | 18-Nov-20 |
| | Jan-21 | | |
| 9 | EN20056.00 RSS Haven Avenue Repairs | 8-Dec-20 | 20-Jan-21 |
| 10 | EN20064.00 NSNT Odor Complaints Mitigation | 9-Dec-20 | 20-Jan-21 |
| | Apr-21 | | |
| 11 | EN20034.03 Solids Handling Facility Evaluation | 10-Mar-21 | 21-Apr-21 |
| | May-21 | | |
| 12 | EN23002.00 Philadelphia Lift Station Force Main Improvements | 29-Mar-21 | 19-May-21 |
| 13 | EN20051.00 RP-1 MCB and Old Lab Building Rehab | 25-Mar-21 | 19-May-21 |

Attachment B Active Capital Improvement Project Status





Construction Schedule Performance



| | Agency-Wide | | | | | | | | |
|-----|-------------|---|--|------------------------------------|------------------------------------|------------------------|---|--|--|
| No. | Project ID | Project Title | Total Expenditures thru 6/30 (\$) | Total Project Budget (\$) | Project Schedule Performance | Status | Schedule Recovery Plan | | |
| 1 | EN20034.03 | Solids Handling Facility Evaluation (Budget in EN20034) | 27,213 | - | On-Time | Consultant Contract | | | |
| 2 | EN19024 | Collection System Asset Management (Assessment Only) | 239,882 | 1,250,000 | On-Time | Consultant Contract | | | |
| 3 | EN19023 | Asset Management Planning Document | 311,800 | 750,000 | On-Time | Pre-Design | | | |
| 4 | EN19030 | WC Asset Management (Assessment Only) | 60,880 | 130,000 | On-Time | Pre-Design | | | |
| 5 | EN20038 | Agency Wide Pavement Management Study | 128,324 | 300,000 | On-Time | Design | | | |
| 6 | EN20037 | Agency Wide Chemical Containment Coating Rehabilitation | 23,372 | 350,000 | On-Time | Construction | | | |
| 7 | FM21005 | Agency Wide Roofing | 955 | 5,085,000 | Recovery in Progress | Construction | The project schedule has been delayed due to COVID 19 impacts with the General Contractor. A non- compensable time extension change order is currently being negotiated. | | |
| 8 | EN20036.02 | RP-5 RW Piping Leak Repairs (Budget in EN20036) | 21,197 | - | On-Time | Construction | | | |
| 9 | EN17080 | System Cathodic Protection Improvements | 1,075,408 | 3,540,851 | On-Time | Project Acceptance | | | |
| 10 | EN13016 | SCADA Enterprise System | 16,260,585 | 22,045,000 | On-Time | Closed | | | |

| | | | Д | \gency-V | Vide (Con | t.) | |
|-----|------------|--|--|------------------------------------|------------------------------------|------------------|---|
| No. | Project ID | Project Title | Total Expenditures thru 6/30 (\$) | Total Project Budget (\$) | Project Schedule Performance | Status | Schedule Recovery Plan |
| 11 | EN17020 | WC On-Call Operations and Maintenance Support | - | 230,500 | 0.00% | N/A | |
| 12 | EN20034 | RO On-Call/Small Projects FY 19/20 | - | 500,000 | 0.00% | N/A | |
| 13 | EN20035 | RO Safety Operations and Maintenance Projects FY1920 | - | 400.000 | 0.00% | N/A | |
| 14 | EN20036 | WC On-Call/Small Projects FY 19/20 | - | 320,000 | 0.00% | N/A | |
| | | Totals | 18,149,617 | 34,901,351 | | | |
| | | | 18,149,017 | | n Canyon | | |
| | | | Total | Total | | | |
| | | | Expenditures | Project | Project Schedule | | |
| No. | Project ID | Project Title | thru 6/30 (\$) | Budget (\$) | Performance | Status | Schedule Recovery Plan |
| | 110,0001.5 | Totals | (7) | (4) | | Status | outcome necovery rituri |
| | <u>'</u> | | Chino | Desalte | r Authorit | y (CDA) | |
| | | | Total | Total | Project | | |
| | | | Expenditures | Project | Schedule | | |
| No. | Project ID | Project Title | thru 6/30 (\$) | Budget (\$) | Performance | Status | Schedule Recovery Plan |
| 15 | EN16021 | TCE Plume Cleanup | 23,919,524 | 21,290,000 | On-Time | Construction | , |
| | | Totals | 23,919,524 | 21,290,000 | | | |
| | | | 23,319,324 | | ections | | |
| | | | Total | Total | | | |
| | | | Expenditures | Project | Project Schedule | | |
| No. | Project ID | Project Title | thru 6/30 (\$) | Budget (\$) | Performance | Status | Schedule Recovery Plan |
| 16 | EN20064 | NSNT Odor Complaints Mitigation | 4,035 | 500,000 | On-Time | Pre-Design | oricade necestry nam |
| | EN23002 | Philadelphia Lift Station Force Main Improvements | .,033 | 500,000 | | Pre-Design | The City of Ontario requested a different alignment for the project due to a future conflict with a City |
| 17 | | | | | Recovery in Progress | | storm drain. IEUA and the City have been working together to find an alignment that will meet the needs of the project. The project will be re-baselined at construction contract award, after the new alignment is |
| | EN20056 | RSS Haven Avenue Repair & Replacement | 524,735 | 18,258,000 | | Design | approved by the City of Ontario. Additional evaluation is being completed to review the extent of relining Haven Avenue Sewer or utilizing |
| 18 | | a replacement | | | Recovery in Progress | 200.5. | the Cucamonga bypass sewer. The project will be re-baselined at construction contract award once the most viable alternative is finalized. IEUA staff will try to mitigate some of the delay during the design |
| | <u> </u> | | 104,101 | 6,000,000 | | | phase. |
| 19 | EN19027 | NRW Pipeline Relining Along Cucamonga Creek | 446.076 | 2 205 000 | Recovery in Progress | Design | The project fell behind schedule due to permit delays and additional scope added to the project. The permit from San Bernardino County Flood Control District (SBCFCD) has been secured. The current |
| 20 | EN19025 | Regional Force Main Improvements | 146,876 273,878 | 2,395,000 4,173,000 | On-Time | Bid and Award | project schedule will be re-baselined after consultant contract award. |
| 21 | EN22002 | NRW East End Flowmeter Replacement | 401,215 | 3,600,000 | On-Time | Construction | |
| 22 | EN19028 | NRW Manhole and Pipeline Condition Assessment | 77,621 | 915,000 | On-Time | Construction | |

| | Collections (cont.) | | | | | | | | | | |
|-----------|--------------------------|--|--|------------------------------------|------------------------------------|-----------------------|---|--|--|--|--|
| | | | Total Expenditures | Total | Project | | | | | | |
| | | | thru 6/30 | Project Budget | Schedule | | | | | | |
| No. | Project ID | Project Title | (\$) | (\$) | Performance | Status | Schedule Recovery Plan | | | | |
| 23 | EN20014 | NRWS Manhole Upgrades - 19/20 | 164,428 | 290,000 | Recovery in Progress | Construction | Several of the manholes on this project were buried and needed to be located so they could be raised to grade. To date 5 of these manholes are several feet below grade requiring a complete manhole shaft rebuild above and beyond the original scope of work. The City of Fontana is also requiring the entire lane be repaved in the area of the excavations. IEUA will be issuing a time extension to cover the additional scope of work. | | | | |
| 24 | EN20015 | Collection System Upgrades 19/20 | | .,, | Recovery in Progress | Construction | Several of the manholes on this project were buried and needed to be located so they could be raised to grade. To date 5 of these manholes are several feet below grade requiring a complete manhole shaft rebuild above and beyond the original scope of work. The City of Fontana is also requiring the entire lane be repaved in the area of the excavations. IEUA will be issuing a time extension to cover the additional | | | | |
| | | | 356,454 | 530,000 | | | scope of work. | | | | |
| 25 | EN19041 | San Bernardino Lift Station Facility Improvements | 187,773 | 500,000 | On-Time | Project Acceptance | | | | | |
| | | Totals | 2,241,116 | 37,161,000 | | | | | | | |
| | | | Gr | oundwa | iter Recha | rge | | | | | |
| | | | Total Expenditures thru 6/30 | Total Project Budget | Project Schedule | | | | | | |
| No. | Project ID | Project Title | (\$) | (\$) | Performance | Status | Schedule Recovery Plan | | | | |
| 26 | RW15003.03 | Montclair Basin Improvements (Budget is in RW15003) | 261,870 | - | On-Time | Design | | | | | |
| 27 | RW15003.06 | Wineville/Jurupa/Force Main Improvements (Budget is in RW15003) | 1,275,612 | - | Recovery in Progress | Design | The permit approval from the Regional Control Board and Army Corps of Engineers has taken longer than initially planned. The project will be re-baselined after the construction contract award. | | | | |
| 28 | RW15004 | Lower Day Basin Improvements | 681,870 | 4,008,000 | On-Time | Construction | | | | | |
| 29 | RW15003.05 | RP-3 Basin Improvements (Budget is in RW15003) | 1,054,612 | - | On-Time | Project Acceptance | | | | | |
| 30 | RW15003 | Recharge Master Plan Update | - | 16,417,000 | 0.00% | N/A | | | | | |
| | | Totals | 3,273,964 | 20,425,000 | | | | | | | |
| | | | | Head | quarters | | | | | | |
| | | | Total Expenditures thru 6/30 | Total Project Budget | Project Schedule Performance | | | | | | |
| No. | Project ID FM20001 | Project Title HQ Interior Replacements | (\$) | (\$) | On-Time | Status Consultant | Schedule Recovery Plan | | | | |
| 31 | | , | 62,884 | 320,000 | | Contract | | | | | |
| 32 | EN20040 EN20008 | HQ Driveway Improvements HQ Parking Lot FY19/20 | 84,035 | 300,000 | Recovery in Progress | Design | The City of Chino's permitting process has delayed the project bid date. The project will be re-baselined. | | | | |
| 33 | CINZUUU8 | TIQ FAINING LULTITY/20 | 47,552 | 440,000 | Recovery in Progress | Design | The City of Chino's permitting process has delayed the project bid date. The project will be re-baselined. | | | | |
| | | Totals | 194,471 | 1,060,000 | | | | | | | |
| | | | | | RCF | | | | | | |
| No. | Project ID | Draiget Title | Total Expenditures thru 6/30 (\$) | Total Project Budget (\$) | Project Schedule Performance | Status | Schedule Recovery Plan | | | | |
| No. 34 | Project ID RA17007.01 | Project Title IERCF Design Build Wash Pad Cover (Budget is in RA17007) | 171,488 | (\$) | On-Time | Construction | Scriedule Recovery Plan | | | | |
| 35 | RA17007 | IERCF Building Improvements | - 1/1,488 | 550,000 | 0.00% | N/A | | | | | |
| | | Totals | 171,488 | 550,000 | | | | | | | |

| | | Re | gional Wa | iter Recy | cling Plar | t No. 1 (| RP-1) |
|------|------------|--|---|----------------------------|-------------------------|------------------------|--|
| | | | Total Expenditures thru 6/30 | Total Project Budget | Project Schedule | | |
| No. | Project ID | Project Title | (\$) | (\$) | Performance | Status | Schedule Recovery Plan |
| 36 | EN20051 | RP-1 MCB and Old Lab Building Rehab | 67.500 | 4 500 000 | On-Time | Consultant | |
| | EN20045 | RP-1 TP-1 Level Sensor Replacement | 67,508 | 1,600,000 | On-Time | Contract Pre-Design | |
| 37 | LIN20043 | NF-1 17-1 Level Sellsor Replacement | 10,430 | 200,000 | Oll-Tille | FTE-Design | |
| 38 | EN13016.05 | SCADA Enterprise System - (Regional Water Recycling Plant No. 1) (Budget is in EN13016) | 1,309,961 | - | On-Time | Pre-design | |
| 39 | EN20058 | RP-1 TP-1 Waste Wash Water Basin Pumps Replacement | 75,867 | 650,000 | Recovery in Progress | Bid and Award | The design took longer than anticipated which has delayed the bid date. The project will be re-baselined once the construction contract is awarded. |
| | EN19043 | RP-1 Centrifuge Foul Air Line | 10,001 | 223,222 | Recovery in | Design | Staff is in the process of taking this project from the project evaluation phase to final design phase |
| 40 | | | 33,948 | 120,000 | Progress | | utilizing a new contract with the consultant. The current project schedule will be re-baselined after consultant contract award. |
| 41 | EN20041 | RP-1 TP-1 Bleach Mixing Repairs | | | Recovery in | Design | The design took longer than anticipated which has delayed the bid date. The project will be re-baselined |
| | EN20065 | RP-1 Solids Hot Water Loop Valves | 48,873 | 680,000 | Progress On-Time | Design | after the construction contract award. |
| 42 | EN20065 | RP-1 Solids not Water Loop Valves | 4,572 | 50,000 | On-Time | Design | |
| | | Regior | al Water | Recyclin | g Plant No | o. 1 (RP- | 1) (Cont.) |
| | | | Total | Total | Project | | |
| | | | Expenditures thru 6/30 | Project Budget | Schedule | | |
| No. | Project ID | Project Title | (\$) | (\$) | Performance | Status | Schedule Recovery Plan |
| | EN18006 | RP-1 Flare Improvements | | | Recovery in | Construction | The project was delayed due to changing Air Quality Management District (AQMD) regulations and |
| 43 | | | 992.927 | 5,682,000 | Progress | | limited availability of qualified flare manufacturers. The project construction contract has been awarded to W.M. Lyles. The current schedule will be re-baselined, so it completes on October 15, 2021. |
| | EN20060 | RP-1 Plant 2 Sludge Piping Repair | 992,927 | 3,682,000 | On-Time | Construction | to w.m. Lyles. The current schedule will be re-baselined, so it completes on October 15, 2021. |
| 44 | | | 51,567 | 140,000 | | | |
| | EN17044 | RP-1 12 kV Switchgear and Generator Control Upgrades | | | | Construction | COVID 19 has impacted the acquisition of portable generators required for the shutdown to install the |
| 45 | | | | | Behind Schedule | | new control cabinets and switchgear. The generators have now been acquired and the shutdown is scheduled for late July. The project is behind schedule, and recovery is not possible. A non-compensable |
| | | | 3,747,532 | 5,870,248 | Scriedule | | time extension along with a change order is being prepared. |
| 46 | EN17082 | Mechanical Restoration and Upgrades | , | | On-Time | Construction | , , , , , , , , , , , , , , , , , , , |
| 40 | | | 2,216,851 | 10,646,000 | | | |
| 47 | EN14042 | 1158 RWPS Upgrades | 5,881,334 | 7,720,000 | On-Time | Construction | |
| 48 | EN15012.01 | RP-1 Plant No. 2 Effluent Conveyance Improvements (Budget is in EN15012) | 1,313,529 | 7,720,000 | On-Time | Construction | |
| | EN17042 | Digester 6 and 7 Roof Repairs | 1,313,323 | | Dobind | Construction | Multiple construction delays including the loss of the coatings sub-contractor have placed the project |
| 49 | | · | | | Behind Schedule | | behind schedule, and recovery is not possible. A non-compensable time extension along with a change |
| | EN44040 | DD 4 Handwards Drivers and Cons. | 4,184,114 | 7,056,000 | | Davi i | order is being prepared. |
| 50 | EN14019 | RP-1 Headworks Primary and Secondary Upgrades | 9,757,761 | 10,215,000 | On-Time | Project Acceptance | |
| 51 | EN15012 | RP-1 Primary Effluent Conveyance Improvements | 1, 1, 1 | ., ., | On-Time | N/A | |
| 21 | | | - | 8,724,000 | | | |
| | | Totals | 29.696.774 | 59.353.248 | | | |
| | | Re | | , , | cling Plar | it No. 2 (| RP-2) |
| | | | Total | Total | Project | | |
| | | | Expenditures | Project | Schedule | | |
| No. | Project ID | Project Title | thru 6/30 (\$) | Budget (\$) | Performance | Status | Schedule Recovery Plan |
| 110. | Trojectio | | (7) | (7) | | Julus | Schedule necovery Fidit |
| | | Totals | - | - | | | |

| | | Re | gional Wa | ater Recy | cling Plar | nt No. 4 (| RP-4) | | | | |
|---|-----------------------|--|--|------------------------------------|------------------------------------|---------------------------|--|--|--|--|--|
| No. | Project ID | Project Title | Total Expenditures thru 6/30 (\$) | Total Project Budget (\$) | Project Schedule Performance | Status | Schedule Recovery Plan | | | | |
| 52 | EN19010 | RP-4 Influent Screen Replacement | 358,317 | | On-Time | Design | Schedule recovery Fidin | | | | |
| 53 | EN17043 | RP4 Primary Clarifier Rehab | 794,562 | 3,040,000 7,681,542 | On-Time | Construction | | | | | |
| 54 | EN17110 | RP-4 Process Improvements | 6,895,538 | 20,962,396 | On-Time | Construction | | | | | |
| 55 | EN13016.03 | 1016.03 SCADA Enterprise System - (Regional Water Recycling Plant No. 4) (Budget is in EN13016) | | - | On-Time | Project Acceptance | | | | | |
| | | Totals | 12,833,617 | 31,683,938 | | | | | | | |
| Regional Water Recycling Plant No. 5 (RP-5) | | | | | | | | | | | |
| | | | Total Expenditures thru 6/30 | Total Project Budget | Project Schedule Performance | | | | | | |
| No. 56 | Project ID EN19001 | Project Title RP-5 Expansion to 30 mgd | (\$) | (\$) | On-Time | Status Bid and | Schedule Recovery Plan | | | | |
| 57 | EN19006 | RP-5 Biosolids Facility | 15,270,093 | 175,000,000 | On-Time | Award Bid and Award | | | | | |
| 58 | EN14043 | RP-5 RW Pipeline Bottleneck | 2,946,002 | 3,137,169 | On-Time | Project Acceptance | | | | | |
| 59 | EN13016.04 | SCADA Enterprise System - (Regional Water Recycling Plant No. 5) (Budget is in EN13016) | 4,781,409 | - | On-Time | Project Acceptance | | | | | |
| | | Totals | 36,782,943 | 343,537,169 | | | | | | | |
| | | | | Recycl | ed Water | | | | | | |
| No. | Project ID | Project Title | Total Expenditures thru 6/30 (\$) | Total Project Budget (\$) | Project Schedule Performance | Status | Schedule Recovery Plan | | | | |
| 60 | EN15002 | 1158 Reservoir Site Cleanup | 72,499 | 1,215,000 | Recovery in Progress | Project Evaluation | The project is currently in the evaluation phase. Southern California Edison (SCE) and their environmental consultant (EnvApps) are taking the lead in coordinating with Department of Toxic Substances Control (DTSC). IEUA is supporting EnvApps and SCE in the report creation and will take the lead upon completion. A project schedule will be created upon finalization of the site evaluation. | | | | |
| 61 | EN17041 | Orchard Recycled Water Turnout Improvements | 148,883 | 477,000 | Recovery in Progress | Design | A permit from Army Corps of Engineers (USACE) took longer to obtain than originally anticipated. The project schedule will be re-baselined once the construction contract is awarded. | | | | |
| 62 | EN22004 | 1158 East Reservoir Re-coating/painting and Upgrades | 601,932 | 1,750,000 | On-Time | Construction | | | | | |
| 63 | EN21004 | 1158 West Reservoir Re-coating/painting and Upgrades | 1,041,360 | 1,811,000 | On-Time | Construction | | | | | |
| 64 | EN20063 | 930 Zone Valve Replacement | 11,168 | 100,000 | On-Time | Project Acceptance | | | | | |
| 65 | EN17049 | Baseline RWPL Extension | 6,644,166 | 6,921,000 | On-Time | Project Acceptance | | | | | |
| 66 | WR15021 | Napa Lateral | 6,485,799 | 6,632,717 | On-Time | Project Acceptance | | | | | |
| | | Totals | 15,005,807 | 18,906,717 | | | | | | | |
| | | Overall Totals | 142,269,320 | 568,868,423 | | | | | | | |

Attachement C

Emergency Projects

| | FY19/20 Emergency Projects | | | | | | | | | | |
|------|----------------------------|--------------------------|---|------------|---------|----------------------------------|-------------------------------|---|-----------|--|--|
| | Project ID | Contractor | Task Order Description (Details of Circumstance and Cause of the Emergency) | Location | TO# | Original Not-to-Exceed /Estimate | Actual Cost thru 6/30/2020 | Date of Award | Status | | |
| Ager | cywide | | | | | | | | | | |
| 1 | EN20019.02 | W.A. Rasic Construction | Cleanout on El Prado Road | Agencywide | TO-022 | 62,750 | 58,862 | 3/8/2020 | Completed | | |
| 2 | EN20019.03 | W.A. Rasic Construction | 8" Centrate Line Whispering Lakes Golf Course | Agencywide | TO-0024 | 28,500 | 20,205 | 4/2/2020 | Completed | | |
| 3 | EN20017.02 | W.A. Rasic Construction | Utility Water Leak - at 4th Street East of Hellman | Agencywide | TO-0020 | 10,000 | 18,037 | 12/3/2019 | Completed | | |
| IERC | F | | | | | | | | | | |
| 4 | RA20005.00 | Mike Bubalo Construction | IERCF Column Repair | IERCF | TO-0002 | 49,000 | 193,563 | 3/24/2020 | Completed | | |
| 5 | RA20008.00 | W.A. Rasic Construction | Damaged Glulam Roof Support | IERCF | TO-0025 | 21,150 | 369 | 6/17/2020 | Active | | |
| RP-1 | | | | | | | | | | | |
| 6 | EN20019.01 | Ferreira Construction | Hot Water Leak at RP-1 | RP-1 | TO-007 | 100,000 | 148,442 | 12/29/2019 | Completed | | |
| RP-4 | | | | | | | | | | | |
| 7 | EN20017.03 | W.A. Rasic Contracting | RP-4 RW Leak | RP-4 | TO-021 | 10,750 | 10,932 | 1/20/2019 | Completed | | |
| RP-5 | | | | | | | | | | | |
| 8 | EN19001.01 | Mike Bubalo Construction | RP-5 Expansion to 30 mgd | RP-5 | TO-0001 | 56,000 | 57,347 | 1/30/2020 | Active | | |
| 9 | EN19006.01 | Mike Bubalo Construction | RP-5 Biosolids Facility | RP-5 | TO-0001 | 0 | 595 | 1/30/2020 | Active | | |
| CCW | RF | | | | | | | | | | |
| 10 | EN20017.01 | W.A. Rasic Construction | CCWRF 3" RW Line Break | CCWRF | TO-0019 | 22,500 | 15,537 | 10/1/2019 | Completed | | |
| 11 | EN20017.04 | W.A. Rasic Construction | CCWRF RW Leak | CCWRF | TO-023 | 18,975 | 13,324 | 3/27/2020 | Completed | | |
| | | | | | | | | 2020 Award 62 3/8/2020 05 4/2/2020 37 12/3/2019 663 3/24/2020 9 6/17/2020 142 12/29/2019 32 1/20/2019 47 1/30/2020 5 1/30/2020 37 10/1/2019 24 3/27/2020 | | | |
| 12 | EN20062.00 | W.A. Rasic Construction | Chino Creek Wetlands Park Potable Water Line Leak Repair | HQ | TO-0018 | 10,000 | 5,694 | 9/30/2019 | Completed | | |
| | | | | Totals | | 389,625 | 542,907 | | | | |

| June Emergency | | | | | | | | | | |
|-------------------------|---------------------------|--|--|----------|---------------------|----------------------------|--|--|--|--|
| Contractor | Task Order Description | Details of the Circumstances/Cause of Emergency | Scope of Repair | Location | Date of Call Out | Not-to-Exceed /Estimate | | | | |
| W.A. Rasic Construction | TO-0025 | A safety concern was reported when staff discovered damaged on the roof. | Install I-beam supports around the damaged Glulam located on the south side of the structure | IERCF | 6/17/2020 | 21,150 | | | | |
| | | | | Totals | | 21,150 | | | | |