Regional Sewerage Program
Technical Committee Meeting

AGENDA
Thursday, February 23, 2023
2:00 p.m.

Teams Conference Link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_ODQ1MWU5ODUtOGI3ZC00NWViLWI0YmlOTI1NmYzYzcwZGYy%40thread.v2/0?context=%7b%22Tid%22%3a%223a%224c0c1e57-30f3-4048-9bd2-cd58917df07%22%2c%22Oid%22%3a%22e1bc1283-cd05-48d8-a67b-d2365bb08cc2%22%7d

Teleconference: (415) 856-9169/Conference ID: 269959360#

This meeting will be held remotely via Teams. The public may participate and provide public comment during the meeting by calling the number provided above. Comments may also be submitted by email to the Recording Secretary Laura Mantilla at lmantilla@ieua.org prior to the completion of the Public Comment section of the meeting. Comments will be distributed to the Committee Members.

Call to Order

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. Comments will be limited to three minutes per speaker.

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
1. **Action Items**
   A. Approval of January 26, 2023 Technical Committee Meeting Minutes
   B. Carbon Canyon Water Recycling Facility Asset Management and Improvements Construction Contract Award
   C. Request by the City of Chino for a Regional Connection Point to the Chino Trunk Interceptor Chino Regional Sewer Connection #C-46
   D. Request by the City of Chino to Change the Approved Connection Point to the Western Interceptor Relief (Chino Regional Sewer Connection #C-03D)
   E. Request by the City of Fontana for a Regional Connection Point to the Fontana Interceptor Relief Sewer (Fontana Regional Sewer Connection #F-36)
   F. Request by the Cucamonga Valley Water District for a Regional Connection Point to the Etiwanda Trunk Sewer Connection #CW-23

2. **Informational Items**
   A. Operations & Compliance Updates (Oral)

3. **Receive and File**
   A. Draft Regional Sewerage Policy Committee Agenda
   B. Building Activity Report
   C. Recycled Water Distribution - Operations Summary

4. **Other Business**
   A. Committee Member Requested Agenda Items for Next Meeting
   B. Committee Member Comments
   C. Next Regular Meeting – TBD

**Adjourn**

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**DECLARATION OF POSTING**

I, Laura Mantilla, Executive Assistant of the Inland Empire Utilities Agency*, a Municipal Water District, hereby certify that, per Government Code Section 54954.2, a copy of this agenda has been posted at the Agency’s main office, 6075 Kimball Avenue, Building A, Chino, CA and on the Agency’s website at [www.ieua.org](http://www.ieua.org) at least seventy-two (72) hours prior to the meeting date and time above.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact Laura Mantilla at (909) 993-1944 or lmantilla@ieua.org 48 hours prior to the scheduled meeting so that IEUA can make reasonable arrangements to ensure accessibility.
ACTION
ITEM
1A
Regional Sewerage Program
Technical Committee Meeting
MINUTES OF JANUARY 26, 2023

CALL TO ORDER
A regular meeting of the IEUA/Regional Sewerage Program – Technical Committee was held via teleconference on Thursday, January 26, 2023. Committee Chair Amanda Coker/Cucamonga Valley Water District called the meeting to order at 2:01 p.m. Recording Secretary Laura Mantilla took roll call and established a quorum was present.

COMMITTEE MEMBERS PRESENT VIRTUALLY OR IN PERSON:

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dave Crosley</td>
<td>City of Chino</td>
</tr>
<tr>
<td>Mark Wiley</td>
<td>City of Chino Hills</td>
</tr>
<tr>
<td>Amanda Coker</td>
<td>Cucamonga Valley Water District (CVWD)</td>
</tr>
<tr>
<td>Brian Wolfe</td>
<td>City of Fontana</td>
</tr>
<tr>
<td>Monica Heredia</td>
<td>City of Montclair</td>
</tr>
<tr>
<td>Chris Quach</td>
<td>City of Ontario</td>
</tr>
<tr>
<td>Nicole deMoet</td>
<td>City of Upland</td>
</tr>
<tr>
<td>Christiana Daisy</td>
<td>Inland Empire Utilities Agency (IEUA)</td>
</tr>
</tbody>
</table>

OTHERS PRESENT:

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eduardo Espinoza</td>
<td>CVWD</td>
</tr>
<tr>
<td>Jerry Burke</td>
<td>IEUA</td>
</tr>
<tr>
<td>Javier Chagoyen-Lazaro</td>
<td>IEUA</td>
</tr>
<tr>
<td>Robert Delgado</td>
<td>IEUA</td>
</tr>
<tr>
<td>Lucia Diaz</td>
<td>IEUA</td>
</tr>
<tr>
<td>Don Hamlett</td>
<td>IEUA</td>
</tr>
<tr>
<td>Elizabeth Hurst</td>
<td>IEUA</td>
</tr>
<tr>
<td>Randy Lee</td>
<td>IEUA</td>
</tr>
<tr>
<td>Scott Lening</td>
<td>IEUA</td>
</tr>
<tr>
<td>Eddie Lin</td>
<td>IEUA</td>
</tr>
<tr>
<td>Laura Mantilla</td>
<td>IEUA</td>
</tr>
<tr>
<td>Jason Marseilles</td>
<td>IEUA</td>
</tr>
<tr>
<td>Liza Muñoz</td>
<td>IEUA</td>
</tr>
<tr>
<td>Alyson Piguee</td>
<td>IEUA</td>
</tr>
<tr>
<td>Sushmitha Reddy</td>
<td>IEUA</td>
</tr>
</tbody>
</table>
OTHERS PRESENT (Continued):

<table>
<thead>
<tr>
<th>Name</th>
<th>Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jeanina Romero</td>
<td>IEUA</td>
</tr>
<tr>
<td>Ken Tam</td>
<td>IEUA</td>
</tr>
<tr>
<td>Yvonne Taylor</td>
<td>IEUA</td>
</tr>
</tbody>
</table>

PUBLIC COMMENTS
There were no public comments.

ADDITIONS/CHANGES TO THE AGENDA
There were no additions/changes to the agenda.

1. ACTION ITEM
   A. APPROVAL OF OCTOBER 27, 2022 TECHNICAL COMMITTEE MEETING MINUTES
      **Motion:** By Nicole deMoet/City of Upland and seconded by Chris Quach/City of Ontario to approve the meeting minutes of the October 27, 2022, Regional Technical Committee meeting by the following vote:

      Ayes: DeMoet, Crosley, Wiley, Wolfe, Daisy, Quach, Heredia, Coker
      Noes: None
      Absent: None
      Abstain: None

      The motion passed by a vote of 8 ayes, 0 noes, 0 abstain, and 0 absent.

2. INFORMATIONAL ITEMS
   A. OPERATIONS & MAINTENANCE DEPARTMENT QUARTERLY UPDATE
      Robert Delgado/IEUA provided an update on the Agency’s assets, preventive and predictive maintenance, production flow rates, chemical consumption, and Inland Empire Regional Compost Facility production and sales.

   B. IEUA – CITY OF RIALTO RECYCLED WATER PURCHASE AGREEMENT TERM SHEET
      Liza Muñoz/IEUA provided the presentation. She stated that the City of Rialto approved the Water Resources Partnership Principles of Agreement in February 2022 and IEUA Board approved the Agreement in October 2022. Discussion ensued regarding the agreement, project cost, and funding source.

      Chair Coker thanked IEUA for pursuing important projects that address peaking issues so that all agencies have access to their full entitlement.

   C. OPERATIONS & COMPLIANCE UPDATES
      Ken Tam/IEUA reported that in December 2022 testing for toxicity at Prado Lake failed. IEUA is currently investigating the cause and will be retesting this week. Mr. Tam informed the Committee that there has been an increase in ragging, fats, oils, and greases at the regional interceptors. IEUA’s Manager of Facilities & Water System Programs will be discussing this topic at the Mutual Aide Partners meeting next month. This topic will also be discussed at the Pretreatment Subcommittee meeting.
3. RECEIVE AND FILE
   Items 3A – 3C were received and filed by the Committee.

   A. DRAFT REGIONAL SEWERAGE POLICY COMMITTEE AGENDA
   B. BUILDING ACTIVITY REPORT
   C. RECYCLED WATER DISTRIBUTION – OPERATIONS SUMMARY

4. OTHER BUSINESS
   A. COMMITTEE MEMBER REQUESTED AGENDA ITEMS
      There were no committee member comments.

   B. COMMITTEE MEMBER COMMENTS
      There were no committee member comments.

   C. NEXT MEETING
      TBD

ADJOURNMENT – Chair Coker adjourned the meeting at 2:40 p.m.

Prepared by:

Laura Mantilla, Recording Secretary
Date: February 2023/March 2023
To: Regional Committees
From: Inland Empire Utilities Agency
Subject: Carbon Canyon Water Recycling Facility (CCWRF) Asset Management and Improvements Construction Contract Award

RECOMMENDATION

It is requested that the Regional Committees recommend the Inland Empire Utilities Agency (IEUA) Board of Directors award the construction contract for the Carbon Canyon Water Recycling Facility (CCWRF) Asset Management and Improvements to the lowest, responsive bidder in the amount of $20,856,916.

BACKGROUND

Carbon Canyon Water Recycling Facility (CCWRF) has been in operation for close to 30 years with limited rehabilitation done. In order to remain in compliance and continue meeting title 22 requirements, the plant requires a number of overhaul services that include major equipment replacement. Specifically, the headworks bar screens and conveyance system, odor control system, aeration blowers and controls, and tertiary filter components are all in need of replacement. In April 2017, the Board awarded a consulting engineering services contract for the CCWRF Asset Management and Improvements Project No. EN17006, to CDM Smith (Engineering Consultant), for the not-to-exceed amount of $3,631,892 to provide design services for the improvements identified above.

On November 15, 2022, IEUA issued an invitation for bids to five contractors prequalified in April 2022. On February 9, 2023, IEUA received five construction bids with the lowest, responsive bidder being from Garney Pacific Construction in the amount of $20,856,916; the engineer's estimate is $25,500,000.
The following table presents the anticipated project cost:

<table>
<thead>
<tr>
<th>Description</th>
<th>Estimated Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Design Services</strong></td>
<td></td>
</tr>
<tr>
<td>Design Consultant Contract</td>
<td>$3,326,339</td>
</tr>
<tr>
<td>IEUA Design Services</td>
<td>$1,593,369</td>
</tr>
<tr>
<td><strong>Construction Services</strong></td>
<td>$2,174,775</td>
</tr>
<tr>
<td>Engineering Services During Construction</td>
<td>$899,775</td>
</tr>
<tr>
<td>IEUA Construction Services (~5%)</td>
<td>$1,275,000</td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td>$24,584,530</td>
</tr>
<tr>
<td>Construction (this action)</td>
<td>$20,856,916</td>
</tr>
<tr>
<td>Contingency (~10%)</td>
<td>$2,100,000</td>
</tr>
<tr>
<td>Lone Star Blower Purchase</td>
<td>$171,000</td>
</tr>
<tr>
<td>EN17006.01 CCWRF 12Kv Backup Generator Control Circuit Improvements</td>
<td>$1,456,614</td>
</tr>
<tr>
<td><strong>Total Project Cost:</strong></td>
<td>$31,679,013</td>
</tr>
<tr>
<td><strong>Total Project Budget:</strong></td>
<td>$30,007,050</td>
</tr>
<tr>
<td><strong>Total Project Budget Increase:</strong></td>
<td>$1,742,950</td>
</tr>
<tr>
<td><strong>Revised Total Project Budget:</strong></td>
<td>$31,750,000</td>
</tr>
</tbody>
</table>

The following is the project schedule:

<table>
<thead>
<tr>
<th>Project Milestone</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction Contract Award</td>
<td>March 2023</td>
</tr>
<tr>
<td>Construction Completion</td>
<td>September 2025</td>
</tr>
</tbody>
</table>

The Carbon Canyon Water Recycling Facility (CCWRF) Asset Management and Improvement Project is consistent with IEUA’s Business Goal of Wastewater Management, specifically the Asset Management objective that IEUA will ensure the Wastewater treatment plants 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 1
Carbon Canyon Water Recycling Facility (CCWRF) Asset Management and Improvements Construction Contract Award
Project No. EN17006
Carbon Canyon Water Recycling Facility (CCWRF)
Project Scope

Replace equipment at the end of service life
• Headworks Bar Screens
• Odor Control System
• New Electrical Building
• Aeration Blowers
• Aeration Basin Ammonia Analyzers
• Tertiary Treatment Filter Improvements
Five bids were received on February 9th, 2023, from pre-qualified contractors:

<table>
<thead>
<tr>
<th>Bidder’s Name</th>
<th>Final Bid Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Garney Pacific Construction</td>
<td>$20,856,916</td>
</tr>
<tr>
<td>Innovative Construction Solutions</td>
<td>$21,049,000</td>
</tr>
<tr>
<td>J.F. Shea Construction Inc.</td>
<td>$23,165,742</td>
</tr>
<tr>
<td>Kiewit Infrastructure West Company</td>
<td>$24,657,000</td>
</tr>
<tr>
<td>Flatiron West, Inc.</td>
<td>$25,610,742</td>
</tr>
<tr>
<td>Engineer’s Estimate</td>
<td>$25,500,000</td>
</tr>
</tbody>
</table>
## Project Budget and Schedule

<table>
<thead>
<tr>
<th>Description</th>
<th>Estimated Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Design Services</strong></td>
<td>$4,919,708</td>
</tr>
<tr>
<td>Design Contract (CDM Smith)</td>
<td>$3,326,339</td>
</tr>
<tr>
<td>IEUA Design Services</td>
<td>$1,593,369</td>
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<td><strong>Total Projected Budget</strong></td>
<td>$30,007,050</td>
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<tr>
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<tr>
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<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction Award</td>
<td>March 2023</td>
</tr>
<tr>
<td>Construction Completion</td>
<td>September 2025</td>
</tr>
</tbody>
</table>
Recommendation

• It is requested that the Regional Committees recommend to the Inland Empire Utilities Agency (IEUA) Board of Directors to award a construction contract for the Carbon Canyon Water Recycling Facility (CCWRF) Asset Management and Improvements, Project No. EN17006, to Garney Pacific Construction in the amount of $20,856,916.

The Carbon Canyon Water Recycling Facility (CCWRF) Asset Management and Improvement Project is consistent with IEUA’s Business Goal of Wastewater Management, specifically the Asset Management objective that IEUA will ensure the Wastewater treatment plants 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.
Date: February 23, 2023

To: Regional Technical Committee

From: Inland Empire Utilities Agency

Subject: Request by the City of Chino for a Regional Connection Point to the Chino Trunk Interceptor Chino Regional Sewer Connection # C-46 (Project No. EN0000000148)

RECOMMENDATION

It is recommended that the Regional Technical Committee tentatively approve the request by the City of Chino for one new connection point to the Chino Trunk Interceptor (Chino Regional Sewer Connection # C-46) pending:

1. The City of Chino providing the LAFCO approved resolution ratifying the Irrevocable Agreement to Annex the noted area for sewer service.

BACKGROUND

In April of 2001, the Inland Empire Utilities Agency (IEUA) received a request from the City of Chino to evaluate the impact to the Regional Sewerage System due to the annexation of the Serenity Trails development to the City of Chino as well as the surrounding area to the north and east (approved connection C-45). In November 2022, a request for a new connection within the previously analyzed sphere was received (Proposed Connection C-46). IEUA originally evaluated this proposed connection area, and it was previously determined that it would not impact sewers serving this, and the surrounding areas. This detailed analysis indicated that eventual annexation of the area to the north and east by the City of Chino would not cause an impact to the Regional System, if the connections were consistent with the base line modeling that was performed.

A request dated December 7, 2022 (Attachment “A”), has been provided, based on previous correspondence between the City, property owner, and IEUA, for connection of the existing Congregate Home (CACH) Development, located at 3408 Chino Avenue, Chino in the unincorporated area of Chino. This development will expand to a 15-bedroom assisted living facility for 18 disabled person and will require a new regional connection to the Chino Trunk Interceptor at Station 29+13.25 through a tie-in to an existing manhole on the 15-inch interceptor.

When expanded, the development will encompass approximately 7.37 acres with a 8,366 square foot, 15-bedroom living health facility. An overall vicinity map is provided (Attachment “B”) that was used to evaluate the Serenity Trails development previously. It shows the location of the noted development for Tributary Area C-46 within the previously analyzed C-45 (orange boundary line).

The Average Dry Weather Flow (ADWF) was provided by the city for the proposed development. IEUA utilized its peak dry and wet weather flow factors since they are more conservative.
SUMMARY OF FLOW RATES UTILIZED

Chino Regional Connection C-46:
  - Average Dry Weather Flow (ADWF) Rate = 0.0012 MGD
  - Peak Dry Weather Flow (PDWF) Rate = 0.0039 MGD
  - Peak Wet Weather Flow (PWWF) Rate = 0.0055 MGD

The hydraulic model was used to evaluate the capacity of the Chino Trunk Interceptor, and Interceptors downstream, as part of the Serenity Trails evaluation (C-45). The projected total PWWF originally for Serenity Trail and its tributary area was 1.094 MGD. This is less than the maximum capacity of 1.11 MGD in the Chino Trunk Interceptor at the downstream limiting 15” pipeline/siphon. Flows for development of connection C-46 are consistent with this original analysis. The analysis indicates that the downstream sewer(s) have sufficient capacity to convey Chino and Chino Hills flows plus the Serenity Trail development/tributary area and C-45 area for PWWF. Under PDWF conditions, the pipe will be less than half full.
ATTACHMENT A
City of Chino Regional Interceptor Request
Dated December 7, 2022
December 7, 2022

Mr. Matthew A. Poeske, PE
Office Engineer
Inland Empire Utilities Agency
6075 Kimball Avenue
Chino, CA 91708

Subject: City of Chino Sewer Connection Request to existing 15" Chino Regional Sewer at Station 29+13.25, Connection No. C-46 for the Chino Avenue Congregate Home, Inc.

Dear Mr. Poeske:

The Chino Avenue Congregate Home ("CACH") is an existing 2,389 sq. ft. single family residential structure located at 3408 Chino Avenue in the unincorporated area of Chino. At this property, CACH currently operates a six (6) bed Congregate Living Health Facility licensed by the State of California Department of Public Health. This facility contains three (3) bedrooms, accommodating two (2) disabled persons per bedroom between the ages of 18 to 59 years of age. Currently, the property owner is moving forward with a 5,977 sq. ft. addition for a total of fifteen (15) bedrooms to accommodate eighteen (18) disabled persons moving into the future.

CACH's sole purpose is to provide care for individuals having more needs than what a skilled nursing facility can provide. For example, patients are typically young men in their early 20s that have been in an auto accident resulting in a coma requiring ventilator support. Patients also work with a physical therapist on a regular basis encouraging range of motion movements. Patients begin their journeys through altered levels of consciousness until patients are able to follow instructions, ween off ventilator support, learn to eat and talk again with a speech therapist, and become strong enough to stand and walk with help.

In 2021, CACH received a "Will Serve" letter from the City of Chino for sewer connection and began the process with San Bernardino County to seek approval for the expansion of the existing facility, which was approved in 2022. Upon approval of the project, representatives from CACH reached out to City staff to initiate the process to connect to the public sewer system. Shortly thereafter, City staff discovered that no City-owned sewer line existed in Chino Avenue to serve CACH and an on-site septic system is not viable option due to the size of the parcel and the additional flows attributed to the expansion. Therefore, the only recourse for this project is to
connect to the existing transmission line in Chino Avenue owned by the Inland Empire Utilities Agency (IEUA).

The property owner has not yet executed a Covenant Agreement to Annex and for Sanitary Sewer Connection ("Agreement") with the City for said property. Provided that enough capacity exists to accommodate flows coming from the proposed site, the owner will move forward with an Agreement with the City of Chino. Upon receipt of the Agreement, the City will then proceed with submitting for City Council consideration, a resolution authorizing the City Manager to execute the Local Agency Formation Commission ("LAFCO") Application for Extension of Service by Contract and approve the Agreement. Because this project is not considered new development, there is no proposed hearing date for LAFCO as these types of applications are approved administratively. Upon the approval by LAFCO, the City of Chino will provide the approved resolution ratifying the Agreement to IEUA.

Therefore, the City is hereby formally requesting "one" new point of connection for the CACH expansion project. The proposed connection is a 6" sewer lateral to the existing IEUA sewer manhole No. 9. The sewer lateral point of connection to the existing manhole would be located at Station 29+13.25 on sheet 4 of approved Sewer Plan Chino Avenue Sewer Connector No. C-46.

The peak wastewater flows included in the sewer study provided by M L Engineering on behalf of CACH are summarized below:

**Calculated Flows Chino Avenue Congregate Home, Inc. Expansion:**

1. The estimated average outflow is 1,200 gallons per day
2. The estimated maximum outflow is 3,640 gallons per day

**Calculated Tributary Flows:**

1. Average Dry Weather Flow (ADWF) = 0.0012 million gallons per day
2. Peak Wet Weather Flow (PWWF) = 0.00364 million gallons per day

If you should need any further information, please feel free to contact Sylvia Ramos, Associate Engineer at (909) 334-3418.

Sincerely,

Jesus Plasencia, P.E.
Assistant City Engineer
PROJECT : Chino Congregate Home
Location : 3408 Chino Avenue, Chino, CA 91710.

To Whom it May Concern,

The Following table is a total calculation of Drainage fixture units (DFU) for the Chino Congregate Home building.

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<thead>
<tr>
<th>UNIT TYPE</th>
<th>QTY</th>
<th>DRAINAGE TOTAL (DFU)</th>
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</thead>
<tbody>
<tr>
<td>WC (3)</td>
<td>13</td>
<td>39</td>
</tr>
<tr>
<td>LAVATORY (1)</td>
<td>23</td>
<td>23</td>
</tr>
<tr>
<td>SINK (2)</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>SHOWER (2)</td>
<td>11</td>
<td>22</td>
</tr>
<tr>
<td>LAUNDRY (3)</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>TOTAL FIXTURE UNITS</td>
<td>52</td>
<td>96</td>
</tr>
<tr>
<td>EQUIVALENT WATER DEMAND IN GPM</td>
<td></td>
<td>62</td>
</tr>
<tr>
<td>REQUIRED MINIMUM PIPE SIZE</td>
<td></td>
<td>4&quot;</td>
</tr>
</tbody>
</table>

Mauricio Lopez, PE
# Improvement Plans for Parcel Map No. 10048

**In the County of San Bernardino**

**For the Construction of Chino Ave. Sewer Improvements**

## General Notes

- **Water Main:**
  - **Placement:** All new water mains shall be placed in the specified location as shown on the plans.
  - **Materials:** Shall conform to the specifications outlined in the contract documents.
  - **Elevations:** Ensured to be accurately placed according to the topographic survey.

- **Sewer Main:**
  - **Placement:** All new sewer mains shall be placed in the specified location as shown on the plans.
  - **Materials:** Shall conform to the specifications outlined in the contract documents.
  - **Elevations:** Ensured to be accurately placed according to the topographic survey.

## Construction Notes & Estimate of Quantities

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item 1</td>
<td>Details 1</td>
<td>Quant 1</td>
</tr>
<tr>
<td>Item 2</td>
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<td>Quant 2</td>
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<tr>
<td>Item 3</td>
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<td>Quant 3</td>
</tr>
<tr>
<td>Item 4</td>
<td>Details 4</td>
<td>Quant 4</td>
</tr>
</tbody>
</table>

### Notice to Contractors:

- All contractors and subcontractors performing work shown on or related to the plans must submit current insurance coverage as required by the California Department of Industrial Relations' Construction Safety Orders.

- **Basis of Bearing:**
  - **Location:** The project is located at 123 Maple St, San Bernardino, CA 92405.

- **Bench Mark:**
  - **Name:** Chino Avenue Benchmark, located at the corner of Chino Ave. and 6th St.

- **Parcels Prepared For:**
  - **Company:** Bramalea California Inc.

- **City of Chino Engineering Division:**
  - **Approval:**

- **County Waterworks District No. 8:**
  - **Tract:** 4442

---

[Diagram and map showing project layout]
SEWER STUDY

FOR

CONGREGATE HOME SEWER CONNECTION

PROJECT LOCATION
3408 CHINO AVE.
CHINO, CALIFORNIA 91710.

DEVELOPER
Steven Martinson

PREPARED BY
Mauricio Lopez P.E
ML Engineering, Upland, CA

PREPARATION DATE
Nov 22nd 2022
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<th>TITLE</th>
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<td>Analysis Criteria</td>
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<td>Capacity Study</td>
<td>1</td>
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<tr>
<td>Results</td>
<td>1-2</td>
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</table>

**LIST OF ATTACHMENTS**

- ATTACHMENT A - Sewer Study Area Exhibit
- ATTACHMENT B - Supporting Calculations
INTRODUCTION
This sewer study has been prepared for the proposed sewer connection of the existing Congregate Housing Facility located north of Chino Avenue and east of the 71 Freeway in the incorporated portion of City of Chino, within the sphere of influence of the City of Chino. The project is planned to be a Congregate Housing Facility. The site is approximately 0.48 acres and is surrounded by low density housing. The proposed facility is planned to provide approximately 15 senior Bedridden Patients.

PURPOSE
As part of our proposed project, we have been asked to size the sewer connection for the sewer proposed Bedridden Senior Congregate Facility.

ANALYSIS CRITERIA
The analysis criteria used for the study is as follows:

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<td>Residential</td>
<td>20 inhabitants x 65 gal/day = 1300 gal/day</td>
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<td>Peaking Factor</td>
<td>2.8</td>
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<tr>
<td>12-inch and smaller diameter pipes</td>
<td>D/d &lt; 0.5</td>
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<tr>
<td>Minimum Velocity</td>
<td>0.25 fps</td>
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<tr>
<td>Maximum Velocity</td>
<td>6 fps</td>
</tr>
<tr>
<td>Manning’s Coefficient</td>
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</table>

CAPACITY STUDY
Based on the above design criteria the tributary area will generate a peak sewer flow of approximately 3,640 gallons per day or 0.042 gallons per second.

The Congregate Housing Facility will generate a peak sewer flow of approximately 3,640 gallons per day or 0.042 gallons per second (gps).

See attachment B for the sewer generation calculation and capacity analysis.
RESULTS

Based on the results of the sewer generation calculation and capacity analysis, the tributary sewer generation area results in a peak flow of approximately 3,640 gpd or 0.042 gps of peak flow. The peak flow passing through the proposed 4-inch sewer connection in the Congrate House.

At 1% slope results in a D/d of 0.333 and peak velocity of 0.267 feet per second which are both acceptable for sewer main design of pipe diameters less than 12 inches in diameter.

The Congrate Housing Facility & the Rental House will be only facilities that utilizes the proposed sewer. Based on analysis results the facility results in a peak flow of approximately 3,640 gallons per day or 0.04 gallons per second. The peak flow passing through the proposed sewer connection 4” diameter in Congrate House at 2.5 % slope results in a D/d of 0.333 and peak velocity of 0.267 feet per second which are both acceptable for sewer main design of pipe diameters less than 12 inches in diameter.

Based on the analysis a 4-inch sewer main would be sufficient to provide service to the proposed Congrate Housing Facility.
ATTACHMENT B
General Location for Connection C-46
ATTACHMENT B – General Location
Date: February 23, 2023

To: Regional Technical Committee

From: Inland Empire Utilities Agency

Subject: Request by the City of Chino to Change the Approved Connection Point to the Western Interceptor Relief Sewer (Chino Regional Sewer Connection C-03D) Project Number EN0000000146

RECOMMENDATION

It is recommended that the Regional Technical Committee approve the request by the City of Chino for one new revised connection point to the Western interceptor relief sewer (Chino Regional Sewer Connection C-03D).

BACKGROUND

During construction of the approved City of Chino Regional Sewer Connection C-03D (June 10, 2022), the Contractor (MNR Construction) potholed the existing utilities within the updated alignment of Ramona Avenue and found conflicts with a large reinforced concrete storm drain, which was determined to be deeper than previously expected. As a result, the City of Chino is requesting a revised regional point of connection to IEUA’s west side interceptor relief sewer (33-inch trunk sewer), at Station 101+34 (Attachment A). The updated connection point will be located about 700 feet south of the previous connection point (intersection of Ramona Avenue and Schaefer Avenue), at Station 108+15, to allow the lateral to get around the conflicting storm drain. The revised tributary area map is shown in Attachment B. Flows as well as capacity analysis will remain the same.

SUMMARY OF FLOW RATES UTILIZED FOR C-03D AND REVISED C-03C:

**Proposed Chino Regional Connection C-03D:**
- Average Flow Rate (ADF) = 0.97 MGD (673.61 gpm)
- Peak Dry Weather Flow (PDWF) Rate IEUA Formula = 1.85 MGD (1,282.98 gpm)
- Peak Wet Weather Flow (PWWF) Rate IEUA Formula = 2.43 MGD (1,688.65 gpm)

**Revised Regional Connection (Existing) C-03C:**
- ADF = 1.8 MGD (1,250.00 gpm)
- Peak Dry Weather Flow (PDWF) Rate IEUA Formula = 3.26 (2,265.91 gpm)
- Peak Wet Weather Flow (PWWF) Rate IEUA Formula = 4.27 MGD (2,963.98 gpm)

The 33-inch western interceptor relief sewer is designed to deliver a maximum flow rate of 54 MGD to the Carbon Canyon Water Recycling Facility. The proposed additional flow results in an average flow rate of 13.54 MGD, which is within the remaining pipeline capacity of 40.46 MGD. The depth of flow will range from 0.34 to 0.45 between C-03D and C-03C. This hydraulic analysis indicates that the proposed connection will not create a capacity deficiency within the Western Interceptor Relief Sewer.
ATTACHMENT “A”
February 1, 2023, Revised City of Chino Regional Interceptor Request
February 1, 2023

Mr. Matthew Poeske
Senior Engineer
Inland Empire Utility Agency
6075 Kimball Avenue
Chino, CA 91710

Subject: Request for New/Updated Sewer Connection to the 33-inch Ramona Avenue Trunk Sewer (West Side Interceptor Relief Sewer) – Update of June 2022 Connection Point

Dear Mr. Poeske,

The City of Chino is hereby requesting a new Regional Point of Connection to IEUA’s West Side Interceptor Relief Sewer (33-inch trunk sewer). This proposed connection is an update of the proposed connection previously-approved by IEUA in June of last year (2022). The updated connection point will be located about 800 feet south of the previous connection point (intersection of Ramona Avenue and Schaefer Avenue). The City’s project is currently in construction, and the Contractor (MNR Construction) conducted potholing of utilities within the updated alignment of Ramona Avenue. The updated connection point will avoid conflicts with a large RCP storm drain, which was determined to be deeper than previously expected.

The updated connection is shown on Attachment #4, and will be designated as Outfall #C03D. At this location, the City is proposing to connect an 18-inch VCP sewer to the existing 33-inch IEUA VCP trunk sewer on the east side of Ramona Ave. The proposed 18-inch VCP sewer will replace the existing 10-inch City sewer main in Ramona Avenue and will discharge into the upper portion of the 33-inch trunk sewer. According to Attachment #4 (Sheet 10 of IEUA Record Drawing #D4587), the proposed connection point will be located about 100 feet south of the existing manhole at Station 101+34 on Profile (Station 55+50 on Plan).

Background (from June 2022 Letter)

According to Sheet 3 of IEUA Record Drawing #D4638, the existing connection point for the local tributary area (see Exhibits A & C of Attachment #1) is located in Eucalyptus Avenue, just west of Monte Vista Avenue. This existing connection point is designated as Outfall #C03C per Attachment #3. At this connection point, the IEUA trunk sewer is 33-inch VCP. The estimated ultimate (future) average daily flow at the connection point in Eucalyptus Avenue is 2.8 MGD. This flow was calculated based on the City’s 1993 Sewer Master Plan and a recent 2020 Sewer Study (see Attachment #1) for this project. The differential flow to the existing #C03C connection (downstream of the proposed #C03D connection) would be 1.8 MGD, once the proposed #C03D connection is constructed. The differential flow is shown in red in Exhibits A & C of Attachment #1.

The flow monitoring results, shown in Exhibit E of Attachment #1, indicate that actual flows are less than the estimated (calculated) flows described above (i.e. 1.8 MGD). Nevertheless, the City is in need of the proposed #C03D connection to alleviate ultimate (future) capacity issues in its sewer system in Yorba Avenue (upstream of the existing #C03C connection in Eucalyptus Avenue).
The proposed #C03D connection will divert a portion of the overall flows which would otherwise be discharged further downstream (into the existing #C03C connection). This flow is shown in blue in Exhibits A & C of Attachment #1. In other words, no new flows will be added to the Westside Interceptor system. Only a split of where the flows will be diverted is being proposed. The estimated average daily flows at the proposed #C03D connection point is 1.05 MGD (or 0.52 MGD based on the measured flows shown in Exhibit E). The remaining flows collected within the local sewer tributary area will discharge into the existing #C03C connection in Eucalyptus Avenue (same as existing conditions).

Based on Sheets 6 to 10 of IEUA Record Drawing #D4587, there do not appear to be any connection points to the West Side Interceptor Relief Sewer system upstream of the existing #C03C connection in Eucalyptus Avenue. Therefore, by adding a proposed #C03D connection and splitting the flows at Ramona Avenue, this project will not change the overall flow characteristics of IEUA’s West Side Interceptor Relief Sewer system.

Conclusion

In summary, the proposed connection point to the existing 33-inch VCP trunk sewer in Ramona Avenue (West Side Interceptor Relief Sewer) is needed due to constructability issues with existing crossing utilities in Yorba Avenue upstream of the existing #C03C connection, and to alleviate ultimate (future) capacity issues. Since the proposed connection will only result in a split of where the flows will be diverted, and will not add any new flows into IEUA’s West Side Interceptor Relief Sewer system, the City requests that permission be granted from IEUA to construct the proposed connection at the at Ramona Avenue.

We request that IEUA review this letter and the following attachments:

- Attachment 1: Exhibits A to E of Sewer Area Study (Exhibits A and C are Modified for this Letter)
- Attachment 2: Area Sewers & Invert Elevations
- Attachment 3: City of Chino Outfalls to IEUA
- Attachment 4: Proposed Connection to IEUA West Side Interceptor

We request that tentative approval be provided to the City as soon as possible.

Sincerely,

Phillip West, P.E., QSD/QSP
Design Consultant for
City of Chino
Public Works Department
13220 Central Avenue
Chino CA 91710
philw@westaeng.com
EXHIBIT A
SEWER TRIBUTARY AREAS

TRIBUTARY AREA TO BE DISCHARGED TO IEUA WEST SIDE INTERCEPTOR (PROPOSED CONNECTION AT SCHAEFER/RAMONA AVE).
ABOUT 80 ACRES

Q
~0.97 MGD AVERAGE
~0.52 MGD MEASURED (FLOW MONITORING)
DISCHARGE TO PROPOSED C-03D

TRIBUTARY AREA TO BE DIVERTED TO IEUA WEST SIDE INTERCEPTOR RELIEF SEWER (IEUA RECORD DWG. D4587).
ABOUT 80 ACRES

Q
~1.8 MGD AVERAGE
~1.1 MGD MEASURED (FLOW MONITORING)
FLOWS FROM AREA IN RED ABOVE (ONCE FLOWS FROM AREA IN BLUE ABOVE ARE DIVERTED)

ABOUT 160 ACRES

IEUA WEST SIDE INTERCEPTOR RELIEF SEWER (IEUA RECORD DWG. D4587)
IEUA C-05
PROPOSED C-03D CONNECTION
IEUA C-03C
IEUA CARBON CANYON TREATMENT PLANT (CCWRF)
IEUA_C16
IEUA_C18

ABOUT 10% OF THIS AREA FLOWS INTO THE C-03C CONNECTION (COLLECTED IN THE CITY'S SEWERS INTO THE C-03C)
EXHIBIT B
YORBA AVENUE SEWER TRIBUTARY AREA
EXHIBIT C
WASTEWATER FLOW GENERATION

- Area ~ 35 ACRES
  - Q = 0.14 CFS

- Area ~ 40 ACRES
  - Q = 0.13 CFS

- Area ~ 64 ACRES
  - Q = 0.25 CFS

- Area ~ 86 ACRES
  - Q = 0.30 CFS

- Up to 500 gpm (1.1 cfs)

- Up to 85,000 gpd (0.13 cfs)

- TRIBUTARY AREA TO BE DIVERTED TO IEUA WEST SIDE INTERCEPTOR (PROPOSED CONNECTION AT SCHAEFER/RAMONA AVE).

- ABOUT 80 ACRES

- TRIBUTARY AREA TO BE DISCHARGED TO C-03C CONNECTION (EXISTING CONNECTION AT EUCALYPTUS AVE).

- ABOUT 160 ACRES

- FLOWS FROM AREA IN RED ABOVE ONCE FLOWS FROM AREA IN BLUE ABOVE ARE DIVERTED

- ~/1.8 MGD AVERAGE
  - ~/1.1 MGD MEASURED (FLOW MONITORING)

- DISCHARGE TO PROPOSED C-03D

- DISCHARGE TO PROPOSED C-03D

- TRIBUTARY AREA TO BE DISCHARGED TO C-03C CONNECTION (EXISTING CONNECTION AT EUCALYPTUS AVE).

- SAME AS BEFORE.

- ABOUT 160 ACRES

- WING LEE FARMS

- IEUA WEST SIDE INTERCEPTOR RELIEF SEWER (IEUA RECORD DWG. D4587)
EXHIBIT D
WASTEWATER POINT FLOWS

PROJECT LOCATION

CITY BOUNDARIES

WING LEE FARMS
Up to 85,000 gpd (0.13 cfs)

AMERICAN BEEF PACKERS
Up to 500 gpm (1.1 cfs)

FLOW POINT:

DIRECTION OF FLOW:

LEGEND

#1
Q = 0.4 CFS
d/D = 0.20

#2
Q = 1.5 CFS
d/D = 0.77

#3
Q = 1.6 CFS
d/D = 0.87

#4
Q = 1.8 CFS
d/D = 0.94

#5
Q = 1.8 CFS
d/D = 0.91

#6
Q = 3.8 CFS
d/D = 0.99

#7
Q = 3.9 CFS
d/D = 1.02

#8
Q = 0.3 CFS
d/D = 0.25

#9
Q = 4.3 CFS
d/D = 1.13

#10
Q = 4.3 CFS
d/D = 1.14

SEWER TRIBUTARY AREA

MONTE VISTA AVE
YORBA AVE
CHINO AVE
EUCALYPTUS AVE
EDISON AVE
SCHAEFER AVE
RAMONA AVE
PIPELINE AVE
MONTE VISTA AVE
CENTRAL AVE
CENTRAL AVE
EXHIBIT E
SEWER FLOW MONITORING RESULTS
YORBA AVE & EUCALYPUS AVE SEWER MAIN REPLACEMENT
(PROJECT NUMBER SW211)

**Monitoring Point #1**
- PIC: YORBA AVE.
  FACING NORTH TOWARDS CHEYENNE
- Peak Flow: 363 gpm (0.8 cfs)
  6.2 in. max. depth

**Monitoring Point #2**
- PIC: RAMONA AVE.
  FACING SOUTH TOWARDS EUCALYPUS
- Peak Flow: 545 gpm (1.2 cfs)
  8.9 in. max. depth

**Monitoring Point #3**
- PIC: EUCALYPUS AVE.
  FACING EAST TOWARDS MONTE VISTA
- Peak Flow: 741 gpm (1.7 cfs)
  6.4 in. max. depth

**Monitoring Point #4**
- PIC: EDISON AVE.
  FACING EAST TOWARDS YORBA
- Monitoring Point #5
- PIC: YORBA AVE.
  FACING SOUTH TOWARDS EUCALYPUS
- Peak Flow: 89 gpm (0.2 cfs)
  2.4 in. max. depth
- Peak Flow: 363 gpm (0.8 cfs)
  6.2 in. max. depth
- Peak Flow: 545 gpm (1.2 cfs)
  8.9 in. max. depth
- Peak Flow: 852 gpm (1.8 cfs)
  7.4 in. max. depth
- Peak Flow: 363 gpm (0.8 cfs)
  6.2 in. max. depth

**Monitoring Point #5**
- PIC: EUCALYPUS AVE.
  FACING EAST TOWARDS MONTE VISTA
- Monitoring Point #3
- PIC: RAMONA AVE.
  FACING SOUTH TOWARDS EUCALYPUS
- Monitoring Point #4
EXIST.
CONNECTION TO IEUA

PROPOSED CONNECTION TO IEUA

EXIST.
CONNECTION TO IEUA

-669' INV
-671' INV
-674' INV
-678' INV
-681' INV
-679' INV
-679' INV
-674' INV

-656' INV (IEUA)
-662' INV (E)
-656' INV (P)

-648.50' INV (IEUA)
-643' INV
-646' INV
-648' INV
-643' INV

-636' INV (IEUA)
-643' INV
-643' INV

-628' INV
-623' INV (IEUA)
-612' INV (IEUA)
Figure 2.8: IEUA Outfall Locations

PROPOSED MANHOLE (CONNECTION TO IEUA) "IEUA_C03D"
ATTACHMENT “B”
Sewer Tributary Areas
TRIBUTARY AREA TO BE DIVERTED TO IEUA WEST SIDE INTERCEPTOR (PROPOSED CONNECTION AT SCHAEFER/RAMONA AVE).
ABOUT 80 ACRES

-0.97 MGD AVERAGE
-0.52 MGD Measured (Flow Monitoring)

DISCHARGE TO PROPOSED C-03D

TRIBUTARY AREA TO BE DISCHARGED TO C-03C CONNECTION (EXIST. CONNECTION AT EUCALYPTUS AVE). SAME AS BEFORE.
ABOUT 160 ACRES

-1.8 MGD AVERAGE
-1.1 MGD Measured (Flow Monitoring)
FLOWS FROM AREA IN RED ABOVE
(ONCE FLOWS FROM AREA IN BLUE ABOVE ARE DIVERTED)

EXHIBIT A
SEWER TRIBUTARY AREAS
ACTION ITEM

1E
Date: February 23, 2023
To: Regional Technical Committee
From: Inland Empire Utilities Agency
Subject: Request by the City of Fontana for a Regional Connection Point to the Fontana Interceptor Relief Sewer (Fontana Regional Sewer Connection # F-36, Project EN0000000166)

RECOMMENDATION

It is recommended that the Regional Technical Committee approve the request by the City of Fontana for a single new connection point to the Fontana Interceptor Relief Sewer (Regional Sewer Connection # F-36).

BACKGROUND

On October 20, 2022, the Inland Empire Utilities Agency (IEUA) received a request from the City of Fontana (Attachment “A”), for the approval of a new regional connection to the Fontana interceptor relief sewer at Station 11+50.36 through an existing 72” manhole, located on the south side of this tributary area, to the existing 42-inch Fontana interceptor relief sewer.

The connection point is required to serve a 5.16 acre (net) tributary area with an initial 103,333 square foot industrial warehouse and office building. The proposed tributary area is located north of Jurupa Avenue, south of Rose Avenue, east of Calabash Avenue and west of Ponderosa Avenue. The vicinity map is provided (Attachment “B”).

Average dry and peak wet/dry weather flows were provided by the City of Fontana. IEUA utilized peak dry and wet weather flows developed using IEUA’s peaking factors, since they were more conservative:

SUMMARY OF FLOW RATES UTILIZED

- Fontana Regional Connection F-36 Average Dry Weather Flow (ADWF) Rate = 0.000896 MGD
- Peak Dry Weather Flow (PDWF) Rate = 0.002985 MGD
- Peak Wet Weather Flow (PWWF) Rate = 0.004212 MGD

The hydraulic model was used to evaluate the Fontana Interceptor Relief Sewer to the Cucamonga Trunk, then to Regional Water Recycled Plant No. 1 (RP-1) as shown in Attachment “B. The hydraulic analysis shows that the connections will not create a capacity deficiency within the noted collection system at buildout under PWWF. Currently, the Fontana interceptor relief has a peak depth to diameter ratio (d/D) of 0.25 and an average flowrate of 2.546 MGD. The full capacity of the 42-inch sewer line is 18.59 MGD. This leaves an available capacity of 16.04 MGD. The downstream Cucamonga Trunk Sewer has a depth to diameter ratio (d/D) of 0.33 and will not be impacted by the projected flows from the tributary area. Capacity to RP-1 is sufficient to meet the flows added by this development.
ATTACHMENT A
October 20, 2022, City of Fontana Regional Interceptor Request
October 20, 2022

Matthew Poeske, Office Engineer
Inland Empire Utility Agency
6075 Kimball Ave
Chino, CA 91708

Subject: City of Fontana Regional Connection Request
Jurupa, Industrial Warehouse Building 1
13996 Jurupa Avenue, Tentative Parcel Map No. 20467, Lot 1

Dear Mr. Poeske,

On behalf of the Applicant, CP Logistics Jurupa, LLC, a Delaware limited liability company, this letter is a request to connect the proposed project (described in detail below) to the existing 42" RCP sewer main maintained and serviced by IEUA (per IEUA plan D-4573-8), located in the City of Fontana along Jurupa Avenue, approximately 611 linear feet east of Calabasch Avenue (see attached vicinity map). There is currently no available City of Fontana maintained sewer that can feasibly be reached by this site.

The proposed project consists of the construction of an approximately 103,133 square foot industrial warehouse building on approximately 5.16 net acres located on Assessor’s Parcel Numbers 0236-161-16 and 0236-161-17 (13996 Jurupa Avenue). Within the proposed approximately 103,133 square foot industrial warehouse building, a two-story office area totaling approximately 4,000 square feet is proposed. Within the office area, the anticipated generators of sewer discharge will consist of (2) men’s and women’s bathrooms, (2) an employee kitchen/break area, and (3) a janitor’s closet. The anticipated sewer flows (average/peak gpd/gpm/mgd) is enclosed within the stamped Sewer Analysis prepared by the Applicant’s plumbing engineer/contractor, Wallace P. Johnson Plumbing and Heating, Inc., provided herewith.

For the proposed connection to the 42" RCP IEUA sewer main specifically, the Applicant plans to connect at STA. 11+50.36 into the existing manhole no. 64R of IEUA plan D-4573-8. These details regarding the specific sewer connection are depicted on a Sewer Improvement Plan prepared by Thienes Engineering, Inc. provided herewith.

If you have any questions or need additional information, please do not hesitate to contact me at (909) 350-6552 or ejgomez@fontana.org.

Thank you,

Esmeralda Gomez
Associate Engineer
### Project Description & Location:
The proposed project (13996 Jurupa Avenue) consists of an approximately 103,133 square foot speculative industrial warehouse building on two (2) contiguous parcels totaling approximately 5.16 net acres located on the north side of Jurupa Avenue between Calabash Drive to the west and Buena Vista Drive to the east. This project site area consists of the following APNs: 0236-161-16 and 0236-161-17. The proposed 103,133 SF building will consist of approximately 99,133 SF of warehouse area and approximately 4,000 SF of speculative office area. Within the office area, the anticipated generators of sewer discharge will consist of (2) men’s & women’s bathrooms, (2) an employee kitchen/break area, and (3) a janitor’s closet. Enclosed below is a summary of the anticipated sewer demand/peak flow for the project, and the associated calculation methods thereto. This project intends to tie into the existing IEUA-controlled 42” sewer main south of the Jurupa Avenue centerline.

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<td>Heavy &amp; Light Industrial, Manufacturing, Warehouses</td>
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<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Heavy &amp; Light Industrial, Manufacturing, Warehouses</td>
<td>Building 4</td>
<td>0</td>
<td>24</td>
<td>2.5</td>
<td>1.00</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
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<td>0</td>
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<tr>
<td>Heavy &amp; Light Industrial, Manufacturing, Warehouses</td>
<td>Building 5</td>
<td>0</td>
<td>24</td>
<td>3</td>
<td>1.00</td>
<td>0</td>
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<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

\[ Q_{max} = P_{Fmax} \times Q_{avg} \]

Where:
- \( Q_{max} \) = maximum flowrate
- \( P_{Fmax} \) = maximum peaking factor
- \( Q_{avg} \) = average flowrate

**Sub-totals:**

\[
\begin{align*}
896 & \quad 1 \\
2240 & \quad 2 \\
0.000896 & \quad 0.002240 \\
\end{align*}
\]

**Grand Totals:**

\[
\begin{align*}
896 & \quad 0.62 \\
2240.00 & \quad 1.56 \\
0.000896 & \quad 0.002240 \\
\end{align*}
\]

###Average gpd flow

<table>
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<th>Fixtures</th>
<th>DFU’s</th>
<th>Quantity</th>
<th>Totals</th>
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<tr>
<td>Water Closets</td>
<td>4</td>
<td>5</td>
<td>20</td>
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<tr>
<td>Lavatories</td>
<td>2</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>Urinals</td>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Bar Sinks</td>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Drinking Fountains</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Mop Sinks</td>
<td>3</td>
<td>1</td>
<td>3</td>
</tr>
</tbody>
</table>

BSC, DSA-SS & DSA-SS/CC & CPC Table H 201.1(4) Factories no showers

- Every 5000 sf = 1 employee with gpd of 25
- 99133 sf = 19.8 employees x 25 gpd = 496 gpd
- 896 gpd x peak factor of 2.5 = 2240 gpd
SHOULD CONSTRUCTION OF THE REQUIRED IMPROVEMENTS NOT
COMMENCE WITHIN TWO YEARS OF THE DATE OF APPROVAL
SHOWN HEREON AND CARRIED FORTH IN A DILIGENT MANNER,
THE CITY ENGINEER MAY REQUIRE REVISIONS TO THE PLANS TO
BRING THEM INTO CONFORMANCE WITH CONDITIONS AND
STANDARDS IN EFFECT.
SHOULD CONSTRUCTION OF THE REQUIRED IMPROVEMENTS NOT COMMENCE WITHIN TWO YEARS OF THE DATE OF APPROVAL SHOWN HEREBON AND CARRIED FORTH IN A DILIGENT MANNER, THE CITY ENGINEER MAY REQUIRE REVISIONS TO THE PLANS TO BRING THEM INTO CONFORMANCE WITH CONDITIONS AND STANDARDS IN EFFECT.
SHOULD CONSTRUCTION OF THE REQUIRED IMPROVEMENTS NOT COMMENCE WITHIN TWO YEARS OF THE DATE OF APPROVAL SHOWN HEREON AND CARRIED FORTH IN A DILIGENT MANNER, THE CITY ENGINEER MAY REQUIRE REVISIONS TO THE PLANS TO BRING THEM INTO CONFORMANCE WITH CONDITIONS AND STANDARDS IN EFFECT.
ATTACHMENT B
General Location for Connection F-36
ATTACHMENT B – General Location
ACTION ITEM

1F
Date: February 23, 2023
To: Regional Technical Committee
From: Inland Empire Utilities Agency
Subject: Request by the Cucamonga Valley Water District (CVWD) for a Regional Connection Point to the Etiwanda Trunk Sewer Connection # CW-23 (Project No. EN0000000152)

RECOMMENDATION

It is recommended that the Regional Technical Committee tentatively approve the request by Cucamonga Valley Water District (CVWD) for one new connection to the Etiwanda Trunk Sewer (CVWD # CW-23) pending:

1. The CVWD providing the LAFCO approved resolution ratifying the Irrevocable Agreement to Annex the noted area for sewer service.

BACKGROUND

On September 6, 2022, the Inland Empire Utilities Agency (IEUA) received a request from the CVWD (Attachment “A”), for the approval of a new regional connection to the Etiwanda Trunk Sewer at Station 246+99.32, through an existing 60-inch manhole located in Arrow Route.

The connection point is required to serve a 4.75 acre (net) tributary area located at 8545 Pecan Avenue for an industrial warehouse and office building. The property sits approximately 325 feet south of the intersection of Arrow Route and Pecan Avenue. Although the property is within the sphere of influence for the CVWD, it is currently not part of their service area; and therefore, a LAFCO approved resolution is required for this connection. The vicinity map is provided (Attachment “B”).

Dry average flows were provided by the CVWD. IEUA applied its’ peak dry and wet weather flow peaking factors to the average flow provided:

**SUMMARY OF FLOW RATES UTILIZED**

- CVWD Regional Connection CW-23 Average Dry Weather Flow (ADWF) Rate = 0.00064 MGD
- Peak Dry Weather Flow (PDWF) Rate = 0.00219 MGD
- Peak Wet Weather Flow (PWWF) Rate = 0.0031 MGD

The hydraulic model was used to evaluate the Etiwanda Trunk Sewer to Regional Water Recycling Facility No. 4 (RP-4) as shown in Attachment “B”. The hydraulic analysis shows that the connections will not create a capacity deficiency within the noted collection system at buildout under PWWF. Currently, the Etiwanda interceptor has a depth to Diameter ratio (d/D) of 0.37 and an average flowrate of 9.067 MGD. The full capacity of the 42-inch sewer line is 30.814 MGD. This leaves an available capacity of 21.745 MGD.
ATTACHMENT A
CVWD Regional Interceptor Request
Dated September 6, 2022
September 6, 2022

Mr. Matthew Poeske, P.E.
Office Engineer
Inland Empire Utilities Agency
6075 Kimball Avenue
Chino, CA 91710

Subject: Request for Regional Sewer Connection to the 42-inch Trunk Sewer Located in Arrow Route at Pecan Avenue.

Mr. Poeske,

The Cucamonga Valley Water District (District) is requesting a new Regional Point of Connection for a property on 8545 Pecan Avenue in the City of Rancho Cucamonga. The property sits approximately 325 feet south of the intersection of Arrow Route and Pecan Avenue. Although the property is within the sphere of influence for the District, we do not own any sewer mains nearby. The developer for the property has requested support to make a sewer connection.

The District proposes to connect a new 8-inch VCP sewer main into a new 60-inch manhole at STA 1+00.00 within Arrow Route. The developer has submitted a sewer usage estimate (plumber’s report) for their average daily flow (ADF) to be 0.00064 MGD. We have also attached sewer connection plans, a figure of the tributary area, and a map showing the District boundary and the City of Rancho Cucamonga boundary in relation to the property of interest.

Please let us know if you need more information.

Thank you,

Eduardo Espinoza, P.E.
Assistant General Manager
Cucamonga Valley Water District

Attachments:
8545 Pecan Avenue Development – Sewer Flow Demand Report
8545 Pecan Avenue Development – Sewer Exhibit
IEUA Service Boundary Map
8545 Pecan Avenue Development – Sewer Plans
PROJECT: PECAN AVE DEVELOPMENT - RANCO CUCAMONGA CA 91739
BUILDING AREA: 98,658 SF
OCCUPANCY USE TYPE: BUSINESS AREAS
WAREHOUSE: OCCUPANT LOAD FACTOR 5,000 SQ.FT. /PERSON (CPC 2019 Sec. 422.1 Table A)
WAREHOUSE AREA: 92,915 SQ. FT. / 5,000 = 19 occupants
OCCUPANT LOAD: 50% MALE, 50% FEMALE: OCC. Use 20/2 = 10 (10 MALE & 10 FEMALE)

OFFICE or PUBLIC BUILDINGS: OCCUPANT LOAD FACTOR 200 SQ.FT. /PERSON (CPC 2019 Sec. 422.1 Table A)
PROPOSED OFFICE AREA: 5,058 SQ. FT. / 200 = 25.29 occupants
OCCUPANT LOAD: 50% MALE, 50% FEMALE: OCC. Use 26/2 = 13 (13 MALE & 13 FEMALE)

WAREHOUSE + OFFICE OCCUPANT = 46 (23 MALE & 23 FEMALE)

<table>
<thead>
<tr>
<th>FIXTURE TYPE</th>
<th>FLOW RATE (GPM)</th>
<th>DURATION</th>
<th>DAILY USES</th>
<th>OCCUPANTS</th>
<th>GALLONS/ DAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAVATORY</td>
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<td>0.2 min</td>
<td>4</td>
<td>46</td>
<td>18.4</td>
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<tr>
<td>DRINKING FOUNTAIN</td>
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<td>0.1 min</td>
<td>2</td>
<td>46</td>
<td>4.6</td>
</tr>
<tr>
<td>KITCHEN SINK</td>
<td>1.5</td>
<td>4 min</td>
<td>2</td>
<td>46</td>
<td>552</td>
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<tr>
<td>WATER CLOSET (FLUSH VALVE)</td>
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<td>23</td>
<td>29.44</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>4 Female</td>
<td>23</td>
<td>117.76</td>
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<tr>
<td>URINAL (FLUSH VALVE)</td>
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<td>1 flush</td>
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<td>11.5</td>
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<tr>
<td>MOP SINK</td>
<td>2</td>
<td>5 min</td>
<td>2</td>
<td>2</td>
<td>40</td>
</tr>
<tr>
<td>TOTAL MAX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>773.7 GPD (PEAK)</td>
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</tbody>
</table>

0.00064 MGD (PEAK)
387 GPD (AVERAGE)
ATTACHMENT B
General Location for Connection CW-23
CW-24 Flows
Max Flow based on use
ADWF=0.00064 MGD
System Peaking for IEUA’s Hydraulic Modeling
IEUA Peaking Factor
PDWF=0.0022 MGD
PWPF=0.0029 MGD

ATTACHMENT B – General Location
RECEIVE AND FILE

3A
Regional Sewerage Program Policy Committee Meeting

AGENDA
Thursday, March 2, 2023
3:30 p.m.
Teleconference Call

To prevent the spread of COVID-19, the Regional Sewerage Program Policy Committee Meeting will be held remotely by teleconference.

Teams Conference Link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_OTMyZTdmNzItNjBiMC00NmZmLTkzOWYiOTdmZDc5MDIwNGQw%40thread.v2/0?context=%7b%22Tid%22%3a%22%3a%224c0c1e57-30f3-4048-9bd2-cd58917dcf07%22%2c%22Oid%22%3a%22e1bc1283-cd05-48d8-a67b-d2365bb08cc2%22%7d

Teleconference: 1-415-856-9169/Conference ID: 214 918 877#

This meeting will be 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 the number provided above. Alternatively, you may email your public comments to Recording Secretary 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.

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. Comments will be limited to three minutes per speaker.

(Continued)
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. Technical Committee Report *(Oral)*

2. Action Item
   A. Approval of November 3, 2022 Policy Committee Meeting Minutes
   B. Carbon Canyon Water Recycling Facility Asset Management and Improvements Construction Contract Award

3. Informational Items
   A. Regional Contract Negotiation Update *(Oral)*

4. Receive and File
   A. Building Activity Report
   B. Recycled Water Distribution – Operations Summary
   C. Operations and Maintenance Department Quarterly Update

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 – TBD

Adjourn

DECLARATION OF POSTING

I, Laura Mantilla, Executive Assistant of the Inland Empire Utilities Agency*, a Municipal Water District, hereby certify that, per Government Code Section 54954.2, a copy of this agenda has been posted at the Agency’s main office, 6075 Kimball Avenue, Building A, Chino, CA and on the Agency’s website at www.ieua.org at least seventy-two (72) hours prior to the meeting date and time above.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact Laura Mantilla at (909) 993-1944 or lmantilla@ieua.org 48 hours prior to the scheduled meeting so that IEUA can make reasonable arrangements to ensure accessibility.
RECEIVE AND FILE

3C
IEUA RECYCLED WATER DISTRIBUTION – JANUARY 2023

**TOTAL ALL PLANTS**
- Influent: 54.1 MGD
- Delivered: 11.8 MGD
- Percent Delivered: 22%

**Preliminary Deliveries**
- RW GWR: 5.7 MGD
- RW Direct Use: 6.1 MGD

**Delivered**
- **RP-4**
  - Delivered: 6.4 MGD

- **RP-1**
  - Delivered: 2.3 MGD

- **CCWRF**
  - Delivered: 1.6 MGD

- **RP-5**
  - Delivered: 1.5 MGD

**Delivered For Groundwater Recharge**
- Storm/Local Runoff: 31.5 MGD 3,000 AFM
- Imported Water: 0 MGD 0 AFM
- Recycled Water: 5.7 MGD 543 AFM
- Total: 37.2 MGD 3,543 AFM

**Creek Discharges**
- Prado Park (001): 4.3 MGD 409 AFM
- RP-1 (002): 24.5 MGD 2,331 AFM
- RP-5 (003): 5.7 MGD 542 AFM
- CCWRF (004): 7.8 MGD 742 AFM
- Total: 42.3 MGD 4,024 AFM
<table>
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<th>Basin</th>
<th>1/1-1/7</th>
<th>1/6-1/14</th>
<th>1/15-1/21</th>
<th>1/22-1/31</th>
<th>FY To Date Actual</th>
<th>Deliveries are draft until reported as final and do not included evaporative losses.</th>
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<tbody>
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<td>Ely</td>
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<td>564</td>
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<td>RP3</td>
<td>52.4</td>
<td>51.3</td>
<td>126.8</td>
<td>282.1</td>
<td>512.6</td>
<td>4835</td>
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<tr>
<td>Victoria</td>
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<td>7.4</td>
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<td>San Sevaine</td>
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<tr>
<td>Total</td>
<td>68.5</td>
<td>51.3</td>
<td>126.8</td>
<td>295.2</td>
<td>842.8</td>
<td>9,670 10,151 AF previous FY to day actual</td>
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**Graph 1:**
- **FY 2020/21**
- **FY 2021/22**
- **FY 2022/23**

**Graph 2:**
- **FY 2020/21**
- **FY 2021/22**
- **FY 2022/23**

**X-axis:** Days Into Fiscal Year
**Y-axis:** Total RW GWR Deliveries (Acre-feet)