Regional Sewerage Program Technical Committee Meeting

AGENDA
Thursday, August 25, 2022
2:00 p.m.
Teleconference Call

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

Teams Conference Link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_NmRmY2FmMDYtNTBmMS00MjA5LTk3ODgtZDkyY2U3MTRmZGYz%40thread.v2/0?context=%7b%22Tid%22%3a%2230f3-4048-9bd2-cd58917dcf07%22%2c%22Oid%22%3a%22329ec40e-4218-9621-6bfa0baa9697%22%7d

Teleconference: (415) 856-9169/Conference ID: 715 477 121#

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. 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 those members present, that there is a need to take immediate action and that the need for action came to the attention of the local agency subsequent to the agenda being posted.

1. Action Items
   A. Approval of July 28, 2022 Technical Committee Meeting Minutes
   B. Request by the City of Fontana for a Regional Sewage Connection (F-35)
   C. Request to Establish Ad-hoc BAR Subcommittee

2. Informational Items
   A. Engineering & Construction Management Quarterly Project Updates
   B. Return to Sewer Study (Oral)
   C. 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 – September 29, 2022

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.
ACTION
ITEM
1A
Regional Sewerage Program
Technical Committee Meeting
MINUTES OF JULY 28, 2022

CALL TO ORDER
A regular meeting of the IEUA/Regional Sewerage Program – Technical Committee was held via teleconference on Thursday, July 28, 2022. Committee Chair Amanda Coker/Cucamonga Valley Water District called the meeting to order at 2:00 p.m. Recording Secretary Laura Mantilla took roll call and established a quorum was present.

ATTENDANCE via Teleconference

COMMITTEE MEMBERS PRESENT:

<table>
<thead>
<tr>
<th>Name</th>
<th>City/Agency</th>
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<tbody>
<tr>
<td>Dave Crosley</td>
<td>City of Chino</td>
</tr>
<tr>
<td>Ron Craig</td>
<td>City of Chino Hills</td>
</tr>
<tr>
<td>Amanda Coker</td>
<td>Cucamonga Valley Water District (CVWD)</td>
</tr>
<tr>
<td>Steve Stanton</td>
<td>City of Montclair</td>
</tr>
<tr>
<td>Chris Quach</td>
<td>City of Ontario</td>
</tr>
<tr>
<td>Braden Yu</td>
<td>City of Upland</td>
</tr>
<tr>
<td>Nicole DeMoet</td>
<td>City of Upland</td>
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<tr>
<td>Christiana Daisy</td>
<td>Inland Empire Utilities Agency (IEUA)</td>
</tr>
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COMMITTEE MEMBER ABSENT:

<table>
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<tr>
<th>Name</th>
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<tr>
<td>Armando Martinez</td>
<td>City of Fontana</td>
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OTHERS PRESENT:

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<tr>
<td>Gull Nawaz</td>
<td>CVWD</td>
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<tr>
<td>Jiwon Seung</td>
<td>CVWD</td>
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<tr>
<td>Jerry Burke</td>
<td>IEUA</td>
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<td>Pietro Cambiaso</td>
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<tr>
<td>Javier Chagoyen-Lazaro</td>
<td>IEUA</td>
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<tr>
<td>Kristine Day</td>
<td>IEUA</td>
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<tr>
<td>Lucia Diaz</td>
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<td>Don Hamlett</td>
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<tr>
<td>Elizabeth Hurst</td>
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<td>Scott Lening</td>
<td>IEUA</td>
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<tr>
<td>Eddie Lin</td>
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OTHERS PRESENT (continued):

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<td>Laura Mantilla</td>
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<td>Jason Marseilles</td>
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<tr>
<td>William McDonnell</td>
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<tr>
<td>Liza Muñoz</td>
<td>IEUA</td>
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<tr>
<td>Cathleen Pieroni</td>
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<tr>
<td>Matt Poeske</td>
<td>IEUA</td>
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<tr>
<td>Jesse Pompa</td>
<td>IEUA</td>
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<tr>
<td>Jeanina Romero</td>
<td>IEUA</td>
</tr>
<tr>
<td>Ken Tam</td>
<td>IEUA</td>
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PUBLIC COMMENTS
There were no public comments.

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

1. ACTION ITEMS
   A. APPROVAL OF JUNE 30, 2022 TECHNICAL COMMITTEE MEETING MINUTES

   **Motion:** By Dave Crosley/City of Chino and seconded by Ron Craig/City of Chino Hills to approve the meeting minutes of the June 30, 2022, Regional Technical Committee meeting by the following vote:

   Ayes: Crosley, Craig, Daisy, Stanton, Quach, Yu, Coker
   Noes: None
   Absent: Martinez
   Abstain: None

   The motion passed by a vote of 7 ayes, 0 noes, 0 abstain, and 1 absent.

   B. REQUEST BY THE CITY OF FONTANA FOR A REGIONAL SEWAGE CONNECTION – MULBERRY (F-34)

   Jason Marseilles/IEUA provided an overview of the City of Fontana’s request for a regional sewage connection (F-34). He stated that the IEUA evaluated the capacity of Fontana’s interceptor and the downstream regional system and determined that there is sufficient capacity for the development.

   **Nicole deMoet/City of Upland** stated she had joined the call however she was having technical issues with the microphone. She informed the Committee that she will represent the City of Upland.

   **Motion:** By Chris Quach/City of Ontario and seconded by Nicole deMoet/City of Upland to recommend that the Regional Technical Committee approve the request by the City of Fontana for a new regional connection point to the Fontana Interceptor (F-34) by the following vote:

   Ayes: Crosley, Craig, Daisy, Stanton, Quach, deMoet, Coker
   Noes: None
   Absent: Martinez
   Abstain: None
The motion passed by a vote of 7 ayes, 0 noes, 0 abstain, and 1 absent.

2. **INFORMATIONAL ITEMS**

A. **OPERATIONS AND MAINTENANCE DEPARTMENT QUARTERLY UPDATE**
   Lucia Díaz/IEUA gave an update on safety statistics, the Operations & Maintenance staff stretch exercise pilot program, Agency-wide NPDES permit, installation of CL2 Analyzers at RP-1 and RP-4, RP-5 Title V AQMD permit, RP-1 and RP-5 annual Title V AQMD inspections, educational outreach, and mutual aid coordination meetings. Ms. Díaz also discussed operational challenges due to ammonia, an increase in fats, oils, grease, and ragging at some of the facilities. She concluded by providing an update on IERCA’s milestones and reported that the Technical Resources division staff attended a tour of the Hyperion Water Reclamation Plant.

B. **RETURN TO SEWER STUDY UPDATES**
   Ken Tam/IEUA stated that Data Collaborative completed the analysis for commercial and industrial categories and analysis for the City of Ontario’s sewer masterplan flows. IEUA asked Data Collaborative to review the residential dataset on the impacts of accessory dwelling units (ADUs). IEUA will be scheduling a meeting with the Technical sub-group in August for Data Collaborative to share their analysis of the expanded dataset.

   Discussion ensued on the state requirements regarding ADUs and impacts on connection fees.

C. **OPERATIONS & COMPLIANCE UPDATES**
   Mr. Tam reported on July 19, after routine flushing maintenance of the sludge line from RP-5 to RP-2, Operations staff discovered sludge seeping out of the pavement on El Prado Road. The collections team, engineering, and compliance were notified of the incident along with the City of Chino. A section of the pipeline was repaired. The spill was recovered and classified as a category 2. Mr. Tam shared pictures of the corroded pipe and thanked the City of Chino and the Chino Police department for assisting with the clean-up effort and traffic control.

   Mr. Craig asked if the pipe is scheduled for preventive maintenance so that this does not occur again. Ms. Diaz stated that the pipeline will be abandoned in the next three years due to the RP-5 expansion.

3. **RECEIVE AND FILE**
   Items 3A and 3B were received and filed by the Committee.

   A. **BUILDING ACTIVITY REPORT**

   B. **RECYCLED WATER DISTRIBUTION – OPERATIONS SUMMARY**

4. **OTHER BUSINESS**

A. **COMMITTEE MEMBER REQUESTED AGENDA ITEMS FOR NEXT MEETING**
   There were no requested agenda items.

B. **COMMITTEE MEMBER COMMENTS**
   Christiana Daisy/IEUA noted that the incorrect agenda meeting packet was posted on IEUA’s website and that during the meeting the website was updated to display the correct agenda and packet
On August 4, IEUA will be holding an in-person informational workshop on the Chino Basin Program (CBP) for water and wastewater stakeholders and partners at the Chino Hills Community Center. On August 17, IEUA will host a CBP Expo before the IEUA board meeting for staff to provide updates and information about the project.

C. NEXT MEETING – AUGUST 25, 2022

ADJOURNMENT – Chair Coker adjourned the meeting at 2:30 p.m.

Prepared by:

Laura Mantilla, Recording Secretary
Date:August 25, 2022

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-35, Project EN0000000145)

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-35).

BACKGROUND

On July 28, 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 114+00 through an existing manhole, located on the west side of this tributary area, to the existing 54-inch Fontana Interceptor Relief Sewer.

The connection point is required to serve a 56.28 acre tributary area with an initial 64,694 square feet industrial warehouse constructed on 2.72 acres of this area. The proposed tributary area is located north of Jurupa Avenue and south of Santa Ana Avenue along Calabash Avenue. Flows have been considered for the entire 56.28-acre area. An overall vicinity map is provided (Attachment “B”).

Average dry weather and peak wet dry weather flows were provided by the City of Fontana. The IEUA peak dry weather flow was obtained using IEUA’s peaking factor:

SUMMARY OF FLOW RATES UTILIZED

<table>
<thead>
<tr>
<th>Type of Flow</th>
<th>Rate (MGD)</th>
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</thead>
<tbody>
<tr>
<td>Average Dry Weather Flow (ADWF)</td>
<td>0.1686</td>
</tr>
<tr>
<td>Peak Dry Weather Flow (PDWF)</td>
<td>0.3690</td>
</tr>
<tr>
<td>Peak Wet Weather Flow (PWWF)</td>
<td>0.4950</td>
</tr>
</tbody>
</table>

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 depth to Diameter ratio (d/D) of 0.14 and an average flowrate of 2.72 MGD. The full capacity of the 54-inch sewer line is 64.72 MGD. This leaves an available capacity of 62.00 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
July 28, 2022, City of Fontana Regional Interceptor Request
JULY 28, 2022

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

Subject: City of Fontana Regional Connection Request
Calabash Industrial Building
Jurupa Avenue & Calabash

Dear Mr. Poeske,

On behalf of the applicant, Panattoni Development Company, Inc, this letter is a request to connect to a sewer main maintained and serviced by IEUA, located in the City of Fontana at the intersection of Jurupa Avenue and Calabash Avenue (see attached vicinity map). There is currently no available Fontana maintained sewer that can feasibly be reached by this site.

A sewer analysis was prepared and has been provided for your use by Thienes Engineering. The proposed sewer in Calabash has a total tributary area of 56.28 acres which is shown outlined in green on the Sewer Study Tributary Area Exhibit. The analysis determined the sewer main line would generate an average flow of 0.1686 MGD and a peak flow of 0.4847 MGD from the total tributary area of 56.28 acres. The sewer in Calabash Ave is proposing to channel the flows using a 10” VCP sewer mainline along calabash and connecting into an existing 24” sewer lateral at M.H. No 62R STA. 114+00 of IEUA plan D4573. Sewer study includes all areas that would be tributary to this sewer mainline in Calabash bounded by Jurupa Ave in the south and Santa Ana Ave in the north which is shown in green on the Sewer Study Tributary Area Exhibit. Panattonie Development Company, Inc specifically is proposing a 64,694 sf industrial warehouse, including a potential office space on an approximate 2.72 acre site located at 11240 Calabash Ave which is included as a part of the total tributary area shown in red on the Sewer Study Tributary Area Exhibit.

If you have any questions or need additional information, please do not hesitate to contact this office.

Travis Almgren
Assistant Engineer
TRIBUTARY AREA MAP

TOTAL TRIBUTARY AREA OF CALABASH SEWER SHOWN IN GREEN. TOTAL OF 56.28 ACRES

TOTAL TRIBUTARY AREA OF SEWER MAIN LINE IN CALABASH = 56.28 ACRES

PROJECT SITE SHOWN IN RED TOTAL OF 2.72 ACRES. THIS IS INCLUDED AS A PART OF THE TOTAL TRIBUTARY AREA

City of Fontana
Parcel

This information provided "as is" without warranty.
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.
SEWER CAPACITY STUDY

FOR

CALABASH INDUSTRIAL BUILDING
11202, 11232, AND 11252 CALABASH AVENUE
FONTANA, CA

PREPARED FOR

CALABASH LPIV 6 LLC
2442 DUPONT DRIVE
IRVINE, CA 92612
PHONE: (949) 2962989

TEI PROJECT #3959

Date:
JULY 7, 2022

Prepared By:

Thienes Engineering, Inc.
CIVIL ENGINEERING - LAND SURVEYING
14345 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173
TABLE OF CONTENTS

1. INTRODUCTION
2. PROJECT DESCRIPTION
3. SEWER PIPE CAPACITY ANALYSIS
4. RESULTS
5. CONCLUSION

LIST OF EXHIBIT

Exhibit 1.

APPENDICES

Appendix A.

Table 1: Sewer Area Study Calculations
Hydraulic Calculations

Appendix B. - Table of Contents

Appendix C. Miscellaneous Supplemental Information
1. INTRODUCTION

The project of this analysis is to determine if the increased sewer flow discharge from the project site impacts to the existing 54” VCP sewer line on Jurupa Avenue, (where the prosed 10” VCP on Calabash for our project site was connected to existing 24” lateral of the above-mentioned existing main line 54” VCP).

The proposed 10” VCP on Calabash for collecting sewage from the project site. This said sewer line is a separate line for the site as a single user.

2. PROJECT DESCRIPTION:

The project site is located on the west side of Calabash Avenue, north of Jurupa Avenue, in the city of Fontana, California.

The project site encompasses approximately 2.72 acres. Proposed improvements for the site include a warehouse-type building of about 64,694 square feet. The site will have a truck yard on the north side of the building. A vehicle parking will be located along the north and northwest portion of the property. There will be landscaping fronting Calabash Avenue, and throughout the project site.

A proposed 10” sewer pipe will be built on Calabash Avenue; the project site sewage will be collected by the said 10” sewer line. This 10” sewer line will be connected to an existing 24” sewer lateral which discharges sewage to a 54” existing sewer line on Jurupa Avenue.

The upstream tributary areas are approximately about 53.56 acres.

The entire site is designated as “Industrial” by the City of Fontana.

Per the City of Fontana’s guidelines, the average dry weather flow rate unit for

Light Industrial = 300 GPD/acre
Regional Mixed Use = 3000 GPD/acre

3. SEWER PIPE CAPACITY ANALYSIS.

The existing sewer pipes were analyzed using the City of Fontana Sewer Manual SC-4 chart for a maximum design capacity at half full for pipes less than 15” and at three quarters full for pipes 15” and greater. The chart is based on Kutter’s Formula (see Appendix A). The cumulative calculated flow for each segment was compared to the sewer capacity at each segment. The equation for the tributary sewer discharge is:

\[ Q_{ave} = ZA \]

Where \( Q_{ave} \) = Average Sewer Discharge (GPD)
\( Z \) = Sewage Flow Generation Factor (GPD/acre)
\( A \) = Parcel Area (acres)

To account for peak flow rates at various times of the day, peak flow discharge is estimated by:

\[ Q_{peak} = 2.5 \times Q_{mgd}^{0.91} \]

Where \( Q_{peak} \) = Peak Sewer Discharge (MGD)
Qmgd = Average Sewer discharge (MGD)

4. RESULTS AND CONCLUSION

The Kutter’s Formula calculation shows that a peak flow upstream at Reach # A1, Reach # A2, Reach # B1, REACH # B2, Reach # C1, Reach # C2, and Reach # D2, Reach Project Site, Reach # D1a, Reach # D1b will be up to 38% of their half-full capacity

This peak flow is below 100% per the guidance provided in the capacity memo.

The maximum D/d ratio of Reach# D1B is .30, below the desired level of .5

In conclusion, per the guidance provided in the sewer capacity memo, it is determined that the proposed project will not have a significant adverse effect on the existing sewer system and no mitigation will be required.
Exhibits:

1. EXHIBIT NO.1  660' RADIUS MAP
2. EXHIBIT NO.2  ASSESSOR PARCELS
                0236-15 AND 0236-16
3. EXHIBIT NO.3  CONCEPTUAL SEWER PLAN
660' RADIUS MAP
Calabash

Prepared April 2021
# Appendix A

## Table 1: Sewer Area Study Calculations

### Hydraulic Calculations
Kutter's Formula

A standard form of Kutter's Formula is known as the Chézy Formula. Kutter's Formula is widely used in sanitary sewer design and analysis. The roughness component, \( C \), is variable and is a function of \( R, S, \) and the annel material. Both \( x \) and \( y \) are equal to 1/2.

Equations for U.S. customary units and the SI system are shown below.

\[ V = C \sqrt{SR} \]

(5.5)

The roughness coefficient \( C \) is related to Manning's \( n \) through Kutter's formula.

Note: Kutter's roughness coefficients are the same as Manning's roughness coefficients.

<table>
<thead>
<tr>
<th>FAIR</th>
<th>C</th>
<th>Chézy's roughness coefficient (1/2 sec., ft<strong>8/ft</strong>)</th>
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<tr>
<td></td>
<td>S</td>
<td>Friction slope (m/m, ft/ft)</td>
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<tr>
<td></td>
<td>R</td>
<td>Hydraulic roughness (unitless)</td>
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<tr>
<td></td>
<td>k_1</td>
<td>Kutter's roughness (unitless)</td>
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<tr>
<td></td>
<td>k_2</td>
<td>Constant (23.0 SI, 41.65 U.S. customary)</td>
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<tr>
<td></td>
<td>k_3</td>
<td>Constant (0.00155 SI, 0.00281 U.S. customary)</td>
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<tr>
<td></td>
<td>k_4</td>
<td>Constant (1.0 SI, 1.811 U.S. customary)</td>
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Note: Certain Trademark Information
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<tr>
<th>Location</th>
<th>Pipe Size (ft.)</th>
<th>Slope (ft/ft)</th>
<th>*Capacity (cfs)</th>
<th>Parcel Area (ac)</th>
<th>Flow Factor¹ (GPD/ac)</th>
<th>Average Flow (GPD)</th>
<th>Average Flow (MGD)</th>
<th>Peak Flow² (GPD)</th>
<th>Peak Flow (cfs)</th>
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<th>Velocities (fps)</th>
<th>Depth (ft)</th>
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<td>0.6900</td>
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* n=0.013

1. Per City of Fontana Sewer Master Plan

2. Qpeak = 2.5Q(MGD)^0.51
Analysis prepared by:

THEINES ENGINEERING INC.

---

TIME/DATA OF STUDY: 11:41 07/07/2022

Problem Descriptions:
TEI PROJECT NO. 3959
CALABASH INDUSTRIAL BUILDING
REACH A1 + REACH A2 DEPTH

>>> PIPEFLOW HYDRAULIC INPUT INFORMATION <<<

---

PIPE DIAMETER(FEET) = 0.830
PIPE SLOPE(Feet/Feet) = 0.0210
PIPEFLOW(CFS) = 0.0398
MANNINGS FRICTION FACTOR = 0.013000

---

CRITICAL-DEPTH FLOW INFORMATION:

CRITICAL DEPTH(Feet) = 0.08
CRITICAL FLOW AREA(SQUARE FEET) = 0.029
CRITICAL FLOW TOP-WIDTH(Feet) = 0.503
CRITICAL FLOW PRESSURE + MOMENTUM(POUNDS) = 0.17
CRITICAL FLOW VELOCITY(Feet/Sec.) = 1.366
CRITICAL FLOW VELOCITY HEAD(Feet) = 0.03
CRITICAL FLOW HYDRAULIC DEPTH(Feet) = 0.06
CRITICAL FLOW SPECIFIC ENERGY(Feet) = 0.11

---

NORMAL-DEPTH FLOW INFORMATION:

NORMAL DEPTH(Feet) = 0.07
FLOW AREA(SQUARE FEET) = 0.02
FLOW TOP-WIDTH(Feet) = 0.448
FLOW PRESSURE + MOMENTUM(POUNDS) = 0.19
FLOW VELOCITY(Feet/Sec.) = 2.003
FLOW VELOCITY HEAD(Feet) = 0.062
HYDRAULIC DEPTH(Feet) = 0.04
FROUDE NUMBER = 1.675
SPECIFIC ENERGY(Feet) = 0.13
Problem Descriptions:
TEI  PROJECT NO. 3959
CALABASH INDUSTRIAL BUILDING
REACH  A1 + REACH A2      CFS

<<<PIPEFLOW HYDRAULIC INPUT INFORMATION<<<

PIPE DIAMETER(FEET) = 0.830
FLOWDEPTH(FEET) = 0.415
PIPE SLOPE(FEET/FEET) = 0.0210
MANNINGS FRICTION FACTOR = 0.013000
>>> NORMAL DEPTH FLOW(CFS) = 1.57

NORMAL DEPTH FLOW INFORMATION:
NORMAL DEPTH(FEET) = 0.41
FLOW AREA(SQUARE FEET) = 0.27
FLOW TOP-WIDTH(FEET) = 0.830
FLOW PRESSURE + MOMENTUM(POUNDS) = 20.64
FLOW VELOCITY(FEET/SEC.) = 5.806
FLOW VELOCITY HEAD(FEET) = 0.523
HYDRAULIC DEPTH(FeET) = 0.33
FROUDE NUMBER = 1.792
SPECIFIC ENERGY(FeET) = 0.94
HYDRAULIC ELEMENTS - I PROGRAM PACKAGE
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Ver. 23.0 Release Date: 07/01/2016 License ID 1435

Analysis prepared by:
THEINES ENGINEERING INC.

TIME/DATE OF STUDY: 11:46 07/07/2022

Problem Descriptions:
TEI PROJECT NO. 3959
CALABASH INDUSTRIAL BUILDING
REACH B1 + REACH B2 DEPTH

>>>PIPFLOW HYDRAULIC INPUT INFORMATION<<<

PIPE DIAMETER(FEET) = 0.830
PIPE SLOPE(Feet/Feet) = 0.0080
PIPEFLOW(CFS) = 0.1246
MANNINGS FRICTION FACTOR = 0.013000

CRITICAL-DEPTH FLOW INFORMATION:

CRITICAL DEPTH(Feet) = 0.15
CRITICAL FLOW AREA(SQUARE FEET) = 0.068
CRITICAL FLOW TOP-WIDTH(Feet) = 0.641
CRITICAL FLOW PRESSURE + MOMENTUM(POUNDS) = 0.71
CRITICAL FLOW VELOCITY(Feet/Sec.) = 1.843
CRITICAL FLOW VELOCITY HEAD(Feet) = 0.05
CRITICAL FLOW HYDRAULIC DEPTH(Feet) = 0.11
CRITICAL FLOW SPECIFIC ENERGY(Feet) = 0.20

NORMAL-DEPTH FLOW INFORMATION:

NORMAL DEPTH(Feet) = 0.14
FLOW AREA(SQUARE FEET) = 0.06
FLOW TOP-WIDTH(Feet) = 0.626
FLOW PRESSURE + MOMENTUM(POUNDS) = 0.72
FLOW VELOCITY(Feet/Sec.) = 2.012
FLOW VELOCITY HEAD(Feet) = 0.063
HYDRAULIC DEPTH(Feet) = 0.10
FROUDE NUMBER = 1.127
SPECIFIC ENERGY(Feet) = 0.21
Problem Descriptions:
TEI PROJECT NO. 3959
CALABASH INDUSTRIAL BUILDING
REACH B1 + REACH B2 CFS

=================================================================================

>>>PIPEFLOW HYDRAULIC INPUT INFORMATION<<<

---
PIPE DIAMETER (FEET) = 0.830
FLOW DEPTH (FEET) = 0.415
PIPE SLOPE (FEET/FEET) = 0.0080
MANNINGS FRICTION FACTOR = 0.013000
>>> NORMAL DEPTH FLOW (CFS) = 0.97

=================================================================================

NORMAL-DEPTH FLOW INFORMATION:

---
NORMAL DEPTH (FEET) = 0.41
FLOW AREA (SQUARE FEET) = 0.27
FLOW TOP WIDTH (FEET) = 0.830
FLOW PRESSURE + MOMENTUM (POUNDS) = 9.70
FLOW VELOCITY (FEET/SEC.) = 3.583
FLOW VELOCITY HEAD (FEET) = 0.199
HYDRAULIC DEPTH (FEET) = 0.33
FROUDE NUMBER = 1.106
SPECIFIC ENERGY (FEET) = 0.61

=================================================================================
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Analysis prepared by:
THEINES ENGINEERING INC.

TIME/DATE OF STUDY: 11:51 07/07/2022

Problem Descriptions:
TEI PROJECT NO. 3959
CALABASH INDUSTRIAL BUILDING
REACH C1 + REACH C2 DEPTH

>>>PIPEFLOW HYDRAULIC INPUT INFORMATION<<<

PIPE DIAMETER(FEET) = 0.830
PIPE SLOPE(FEET/FEET) = 0.0050
PIPEFLOW(CFS) = 0.2195
MANNINGS FRICTION FACTOR = 0.013000

CRITICAL-DEPTH FLOW INFORMATION:

CRITICAL DEPTH(Feet) = 0.20
CRITICAL FLOW AREA(SQUARE FEET) = 0.102
CRITICAL FLOW TOP-WIDTH(Feet) = 0.713
CRITICAL FLOW PRESSURE + MOMENTUM(POUNDS) = 1.45
CRITICAL FLOW VELOCITY(Feet/Sec.) = 2.148
CRITICAL FLOW VELOCITY HEAD(Feet) = 0.07
CRITICAL FLOW HYDRAULIC DEPTH(Feet) = 0.14
CRITICAL FLOW SPECIFIC ENERGY(Feet) = 0.27

NORMAL-DEPTH FLOW INFORMATION:

NORMAL DEPTH(Feet) = 0.21
FLOW AREA(SQUARE FEET) = 0.11
FLOW TOP-WIDTH(Feet) = 0.724
FLOW PRESSURE + MOMENTUM(POUNDS) = 1.46
FLOW VELOCITY(Feet/Sec.) = 2.011
FLOW VELOCITY HEAD(Feet) = 0.063
HYDRAULIC DEPTH(Feet) = 0.15
FROUDE NUMBER = 0.913
SPECIFIC ENERGY(Feet) = 0.27
Problem Descriptions:
TEI PROJECT NO. 3959
CALABASH INDUSTRIAL BUILDING
REACH C1 + REACH C2 CFS

>>>>>>>> PIPEFLOW HYDRAULIC INPUT INFORMATION<<<<<<

PIPE DIAMETER(FEET) = 0.830
FLOWDEPTH(FEET) = 0.415
PIPE SLOPE(FEET/FEET) = 0.0050
MANNINGS FRICTION FACTOR = 0.013000

NORMAL DEPTH FLOW(CFS) = 0.77

NORMAL DEPTH(FEET) = 0.41
FLOW AREA(SQUARE FEET) = 0.27
FLOW TOP-WIDTH(FEET) = 0.830
FLOW PRESSURE + MOMENTUM(POUNDS) = 7.18
FLOW VELOCITY(FEET/SEC.) = 2.833
FLOW VELOCITY HEAD(FeET) = 0.125
HYDRAULIC DEPTH(FeET) = 0.33
FROUDE NUMBER = 0.874
SPECIFIC ENERGY(FeET) = 0.54
HYDRAULIC ELEMENTS - I PROGRAM PACKAGE
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Ver. 23.0 Release Date: 07/01/2016 License ID 1435

Analysis prepared by:
THEINES ENGINEERING INC.

TIME/DATE OF STUDY: 12:03 07/07/2022

Problem Descriptions:
TEI PROJECT NO. 3959
CALABASH INDUSTRIAL BUILDING
REACH PROJECT SITE + REACHES D1a + D1b+ D2 DEPTH

================================

>>>PIPEFLOW HYDRAULIC INPUT INFORMATION<<<

PIPE DIAMETER(FEET) = 0.830
PIPE SLOPE(Feet/Foots) = 0.0040
PIPEFLOW(CFS) = 0.2618
MANNINGS FRICTION FACTOR = 0.013000

================================

CRITICAL-DEPTH FLOW INFORMATION:

CRITICAL DEPTH(Feet) = 0.22
CRITICAL FLOW AREA(SQUARE FEET) = 0.116
CRITICAL FLOW TOP-WIDTH(Feet) = 0.734
CRITICAL FLOW PRESSURE + MOMENTUM(POUNDS) = 1.81
CRITICAL FLOW VELOCITY(Feet/Sec.) = 2.256
CRITICAL FLOW VELOCITY HEAD(Feet) = 0.08
CRITICAL FLOW HYDRAULIC DEPTH(Feet) = 0.16
CRITICAL FLOW SPECIFIC ENERGY(Feet) = 0.30

================================

NORMAL-DEPTH FLOW INFORMATION:

NORMAL DEPTH(Feet) = 0.25
FLOW AREA(SQUARE FEET) = 0.13
FLOW TOP-WIDTH(Feet) = 0.758
FLOW PRESSURE + MOMENTUM(POUNDS) = 1.85
FLOW VELOCITY(Feet/Sec.) = 2.002
FLOW VELOCITY HEAD(Feet) = 0.059
HYDRAULIC DEPTH(Feet) = 0.18
FROUDE NUMBER = 0.818
SPECIFIC ENERGY(Feet) = 0.30
Problem Descriptions:
TEI PROJECT NO. 3959
CALABASH INDUSTRIAL BUILDING
REACH PROJECT SITE + REACHES D1a + D1b+ D2    CFS

__________________________________________________________________________

>>> PIPEFLOW HYDRAULIC INPUT INFORMATION<<<

__________________________________________________________________________

PIPE DIAMETER(FEET) = 0.830
FLOWDEPTH(Feet) = 0.415
PIPE SLOPE(FOOT/FOOT) = 0.0040
MANNINGS FRICTION FACTOR = 0.013000
>>> NORMAL DEPTH FLOW(CFS) = 0.69

__________________________________________________________________________

NORMAL-DEPTH FLOW INFORMATION:

__________________________________________________________________________

NORMAL DEPTH (FEET) = 0.41
FLOW AREA(SQUARE FEET) = 0.27
FLOW TOP-WIDTH(FOOT) = 0.830
FLOW PRESSURE + MOMENTUM(POUND) = 6.34
FLOW VELOCITY(FEET/SEC.) = 2.534
FLOW VELOCITY HEAD(FOOT) = 0.100
HYDRAULIC DEPTH(FOOT) = 0.33
FROUDE NUMBER = 0.782
SPECIFIC ENERGY(FOOT) = 0.51

__________________________________________________________________________
Appendix B

1. Assessor’s Map
2. Vicinity Map
3. City of Fontana, State of California-Zoning Map
4. City of Fontana, State of California-General Land Use Map
5. Conceptual Sewer Plan
6. Zoning Confirmation
7. Fontana Interceptor Relief Sewer – phase II – 1881-D-4573-1 (drawing no. G-1, dwg no. C-6 and C-7
8. City of Fontana Index Map
### Due Diligence Job Worksheet

**Thienes Engineering**
Ph 714.521.4811 Fax 714.521.4173
4349 Firestone Blvd. La Mirada, CA 90638

**Client:** Panattoni Development Company, Inc.

**Prop #**

**Job No.:** 3959

**County:** San Bernardino

**City:** Fontana

**Thomas Bros.**

**Page:** 644

**Grid:** B2

**Job Description**

**Project Name:** Calabash Avenue Industrial Development

**Site Location:** W/S Calabash Ave, between Jurupa Ave & Santa Ana Ave

**Site Address:** 11202, 11232 and 11252 Calabash Avenue

**A.P.N.:** 0236-151-34, 50 and 51

**Site Acreage:** 2.72

**Proposed Bldg. SF:** 64,900

**Legal Owner:**

**Reference Job No.:** 2431, 3453, 3543, 3899, 3941, 3942

**Zoning Information**

**General Plan Lu:** Southwest Industrial Park, I-L Light Industrial

**Zone Designation:** Southwest Industrial Park

**Swip Zoning:** Jurupa North Research and Development District (JND)

**Confirmed 3/4/2021**

---

### Boundary Topo A.L.T.A. Civil Due Dil. Tr/P.M. Other

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<td>General Plan Map / Designation</td>
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<td>Farmland &amp; Wetlands Maps</td>
<td>On-Site Records from Owner</td>
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**Plan Check Times:** Expediting? **City Standards:** Energy **Notes:**

- Planning
- Building
- Plumbing
- Electrical
- Mechanical
- Fire Code

- [ ] Date item was requested (In Process)
- [ ] Completed
- [ ] To be obtained if available
- [ ] NA Not Available
Hi Angie and good afternoon,

The properties in question do have a General Plan designation of Light Industrial (I-L). The zoning does fall within the Southwest Industrial Park Specific Plan, more specifically the Jurupa North Research District (JND). Also there are no additional special zones or overlays. Thank you.
APPENDIX C

MISCELLANEOUS
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*(1)* Specific Plan (SP) areas are a mix of zoning categories. Analyzing aerial photos, most of the SP areas appeared similar in density to single family residential, thus a similar average edd/acre value was utilized. Large areas within the SP zones which appeared to be commercial or industrial were loaded using those unit flow rates within the model.
ATTACHMENT B
General Location for Connection F-35
Max Flow based on use
ADWF=0.1686 MGD

System Peaking for IEUA’s Hydraulic Modeling
IEUA Peaking Factor
PWWF=0.3690 MGD
PWWF=0.4950 MGD
Date: August 2022 / September 2022

To: Regional Technical Committee / Regional Policy Committee

From: Ken Tam, Manager of Environmental Services  
IEUA – Planning & Resources Department

Subject: Building Activity Report (BAR) Ad-hoc Subcommittee Formation

RECOMMENDATION

It is requested that the Regional Committees approve the formation of the Ad-hoc Building Activity Report (BAR) Subcommittee.

BACKGROUND

In 2012, IEUA requested the formation of an Ad-hoc BAR Subcommittee through the Regional Technical Committee to streamline and bring uniformity to the monthly building activity reporting process, as well as to revise Exhibit J of the Regional Sewage Service Contract (Regional Contract). The process resulted in an improved BAR data processing system and an amendment to Exhibit J in 2013.

During the ongoing Regional Contract negotiation discussions, IEUA and the Contracting Agencies identified several topics which warrant further subcommittee review. Some initial topics identified include monthly sewer user fee collection, handling users with no record of Equivalent Dwelling Unit (EDU) capacity purchases, and addressing Accessory Dwelling Unit (ADU) connection fees. As such, the group has requested the formation of a new Ad-hoc BAR Subcommittee in order to address EDU related concerns on an as-needed basis. The proposed members of the subcommittee would include IEUA and each of the Contracting Agencies. The proposed structure would include having IEUA working in collaboration with the Contracting Agencies to develop agendas, and with each Agency bringing pertinent subject matter experts to each meeting based on the topic of discussion. Conclusions drawn from the subcommittee will be documented and reported to the Regional Committees for consideration.

ATTACHMENTS

Attachment 1 – PowerPoint Presentation
Building Activity Report (BAR)
Ad-hoc Subcommittee Formation

Ken Tam
Manager of Environmental Services
August/September 2022
Background

• In 2012, IEUA requested an Ad-hoc Building Activity Report (BAR) Subcommittee be formed through the Regional Technical Committee
  — Goals:
    • Review and streamline the BAR process
    • Discuss, clarify, and update Exhibit J
  — Results from the Subcommittee
    • BAR Template
    • Exhibit J Amendment

• 2021/22 - Regional Contract Negotiation conceptually agrees to a standing BAR Subcommittee to address fee collection uniformity

• 2022 - IEUA and Contracting Agencies identify several additional topics in need of evaluation
Goals of 2022 BAR Ad-hoc Subcommittee
- Forum for Contracting Agencies and IEUA to discuss topics of concern
- Create and reinforce regionally uniform methods for sewerage program fee collection

Topics of Discussion
- Monthly Sewer Use Fees
- Evaluation of Industrial Users with no records of EDU purchases
- Accessory Dwelling Units
- Additional topics from members of the Subcommittee

Structure
- IEUA to develop agendas for topics of discussion
- Contracting Agencies to send subject matter experts to meetings (depending on topic)

Reporting
- Conclusions from Subcommittee to be documented
- Subcommittee to report conclusions to Regional Technical Committee
It is requested that the Regional Committees approve the formation of the Ad-hoc Building Activity Report (BAR) Subcommittee
INFORMATION ITEM 2A
Engineering and Construction Management
Quarterly Project Updates
Regional Tech/Policy Committees

Jason Marseilles, P.E.
Manager of Engineering
August/September 2022
Project Location Map
Primary Clarifier Rehabilitation/ RP-4 Process Improvements
Project Goal: Extend Asset Life & Improve Efficiencies

Total Project Budget: $17M
Project Completion: September 2022
Construction Percent Complete: 98%

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<th>Phase</th>
<th>Consultant/Contractor</th>
<th>Current Contract</th>
<th>Amendments/Change Orders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>Carollo Engineering</td>
<td>$1.7M</td>
<td>25%</td>
</tr>
<tr>
<td>Construction (Current)</td>
<td>W.M. Lyles</td>
<td>$13.5M</td>
<td>22%</td>
</tr>
</tbody>
</table>

Project Management Team

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Manager</td>
<td>Spears, James</td>
</tr>
<tr>
<td>Assistant/Associate Engineer</td>
<td>Salazar, Victoria</td>
</tr>
<tr>
<td>Administrative Assistant</td>
<td>Olsen, Wendy</td>
</tr>
<tr>
<td>Inspector</td>
<td>Carollo</td>
</tr>
</tbody>
</table>

Demo of Turblex Blowers
RP-1 Intermediate PS Electrical Improvements
Project Goal: Rehabilitate/Repair Existing Assets

Total Project Budget: $9M
Project Completion: April 2025
Design Percent Complete: 10%

Phase | Consultant/Contractor | Current Contract | Amendments/Change Orders
---|---|---|---
Pre-Design (Current) | GHD | $1.1M | 0%
Construction | TBD | $0 | 0%

Project Management Team

- Project Manager: Simpson, James
- Assistant/Associate Engineer: Asprer, Kevin
- Administrative Assistant: Wallace & Associates
- Inspector: TBD

Intermediate Pump Station
RP-1 Thickening Building & Acid Phase Digester
Project Goal: Increase Treatment Capacity

Total Project Budget: $133M
Project Completion: November 2026
Design Percent Complete: 30%

<table>
<thead>
<tr>
<th>Phase</th>
<th>Consultant/Contractor</th>
<th>Current Contract</th>
<th>Amendments/Change Orders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design (Current)</td>
<td>Carollo Engineering</td>
<td>$7.3M</td>
<td>14%</td>
</tr>
<tr>
<td>Construction</td>
<td>TBD</td>
<td>$0M</td>
<td>0%</td>
</tr>
</tbody>
</table>

Project Management Team

Project Manager: Simpson, James
Assistant/Associate Engineer: Asprer, Kevin
Administrative Assistant: Wallace & Associates
Inspector: TBD

Project Site
RECEIVE AND FILE
3A
Regional Sewerage Program
Policy Committee Meeting

AGENDA
Thursday, September 1, 2022
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_NWU1NzA2NDktM2VjMi00NDU1LTkxMmUtMjYyMjA2YWM3YWU4%40thread.v2/0?context=%7b%22Tid%22%3a%22%3a%224c0c1e57-30f3-4048-9bd2-cd58917dcf07%22%2c%22Oid%22%3a%22329ec40e-eb94-4218-9621-6bfa0baa9697%22%7d

Teleconference: 1-415-856-9169/Conference ID: 552 973 583#

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 July 7, 2022 Policy Committee Meeting Minutes
   B. Request to Establish Ad-hoc BAR Subcommittee

3. Informational Items
   A. Regional Contract Negotiation Update *(Oral)*
   B. Engineering & Construction Management Quarterly Project Updates
   C. Chino Basin Program 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 – October 6, 2022

Adjourn

DECLARATION OF POSTING

I, Laura Mantilla, Executive Assistant of the Inland Empire Utilities Agency*, 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 3B
Building Activity Report - YTD Fiscal Year 2021/22

Legend
- Service Area
- Unincorporated

Residential
- <=1.0
- 1.0 - 10.0
- >10.0

Commercial
- <=1.0
- 1.0 - 10.0
- >10.0

Industrial
- <=1.0
- 1.0 - 10.0
- >10.0

HALF MILE GRID: TOTAL EDU's (YTD)
0 0.5 1 15 30 45 75+

TOTAL EDU BY WASTEWATER CONNECTION TYPE (YTD)

<table>
<thead>
<tr>
<th>Contracting Agency</th>
<th>Commercial (EDUs)</th>
<th>Industrial (EDUs)</th>
<th>Residential (EDUs)</th>
<th>Total (EDUs)</th>
<th>Projected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chino</td>
<td>80</td>
<td>0</td>
<td>718</td>
<td>799</td>
<td>434</td>
</tr>
<tr>
<td>Chino Hills</td>
<td>49</td>
<td>0</td>
<td>65</td>
<td>112</td>
<td>276</td>
</tr>
<tr>
<td>CVWD</td>
<td>112</td>
<td>322</td>
<td>764</td>
<td>3198</td>
<td>2050</td>
</tr>
<tr>
<td>Fontana</td>
<td>125</td>
<td>7</td>
<td>670</td>
<td>802</td>
<td>1792</td>
</tr>
<tr>
<td>Montclair</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>10</td>
<td>474</td>
</tr>
<tr>
<td>Ontario</td>
<td>247</td>
<td>41</td>
<td>1264</td>
<td>1552</td>
<td>7560</td>
</tr>
<tr>
<td>Upland</td>
<td>23</td>
<td>0</td>
<td>43</td>
<td>66</td>
<td>952</td>
</tr>
<tr>
<td>Total</td>
<td>646</td>
<td>371</td>
<td>3523</td>
<td>4039</td>
<td>13538</td>
</tr>
</tbody>
</table>
IEUA RECYCLED WATER DISTRIBUTION – JULY 2022

**TOTAL ALL PLANTS**
- Influent: 50.1 MGD
- Delivered: 46.1 MGD
- Percent Delivered: 92%

**Preliminary Deliveries**
- RW GWR: 14.5 MGD
- RW Direct Use: 31.6 MGD

**Creek Discharges**
- Prado Park (001): 1.1 MGD 105 AFM
- RP-1 (002): 2.9 MGD 276 AFM
- RP-5 (003): 0.0 MGD 0 AFM
- CCWRF (004): 0.0 MGD 0 AFM
- Total: 4.0 MGD 381 AFM

**Delivered For Groundwater Recharge**
- Storm/Local Runoff: 1.8 MGD 174 AFM
- Imported Water: 0 MGD 0 AFM
- Recycled Water: 14.5 MGD 1,380 AFM
- Total: 16.3 MGD 1,554 AFM
Recycled Water Recharge Actuals - July 2022 (Acre-Feet)

<table>
<thead>
<tr>
<th>Basin</th>
<th>7/1-7/2</th>
<th>7/3-7/9</th>
<th>7/10-7/16</th>
<th>7/17-7/23</th>
<th>7/24-7/31</th>
<th>Month Actual</th>
<th>FY To Date Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ely</td>
<td>11.8</td>
<td>51.2</td>
<td>42.0</td>
<td>5.0</td>
<td>0.0</td>
<td>110.0</td>
<td>110</td>
</tr>
<tr>
<td>Banana</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Hickory</td>
<td>0.0</td>
<td>0.0</td>
<td>12.6</td>
<td>15.4</td>
<td>4.3</td>
<td>32.3</td>
<td>32</td>
</tr>
<tr>
<td>Turner 1 &amp; 2</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>20.2</td>
<td>20.2</td>
<td>70</td>
</tr>
<tr>
<td>Turner 3 &amp; 4</td>
<td>11.1</td>
<td>1.7</td>
<td>20.6</td>
<td>12.7</td>
<td>3.2</td>
<td>49.3</td>
<td>323</td>
</tr>
<tr>
<td>8th Street</td>
<td>25.0</td>
<td>59.8</td>
<td>72.6</td>
<td>74.3</td>
<td>90.6</td>
<td>322.4</td>
<td>323</td>
</tr>
<tr>
<td>Brooks</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>RP3</td>
<td>7.0</td>
<td>21.7</td>
<td>54.1</td>
<td>89.9</td>
<td>138.6</td>
<td>311.3</td>
<td>311</td>
</tr>
<tr>
<td>Declez</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Victoria</td>
<td>13.9</td>
<td>39.1</td>
<td>11.4</td>
<td>0.0</td>
<td>0.0</td>
<td>64.4</td>
<td>64</td>
</tr>
<tr>
<td>San Sevaine</td>
<td>25.0</td>
<td>77.0</td>
<td>100.5</td>
<td>112.6</td>
<td>141.2</td>
<td>456.3</td>
<td>470</td>
</tr>
<tr>
<td>Total</td>
<td>93.8</td>
<td>250.5</td>
<td>313.8</td>
<td>309.3</td>
<td>398.3</td>
<td>1,366.2</td>
<td>1,380</td>
</tr>
</tbody>
</table>

Deliveries are draft until reported as final and do not included evaporative losses.

---

**Graphs:**
- RW GWR Deliveries (Acre-Feet)/mo
  - FY 2020/21
  - FY 2021/22
  - FY 2022/23

- Total RW GWR Deliveries (acre-feet)
  - FY 2020/21
  - FY 2021/22
  - FY 2022/23

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