Inland Empire Brine Line

David Ruhl, Engineering Manager

Project Agreement 24 Committee | November 5, 2019

Item No. 4.A
Number/Type of connections

- Direct (29)
- Indirect (21)
- Collection stations (4)
- Emergency (12)
- Liquid Wastehaulers (10)

- Groundwater desalters (6)
- Ion Exchange Plants (4)
- Power Plants (4)
- Industrial Dischangers (37)
- Water Reclamation Facilities (1)
- Domestic (temporary) (2)
Capacity Right

- Wastewater Treatment and Disposal Agreement (1972 Agreement) and (1996 Agreement)
  - Treatment and Disposal Capacity Right
  - Pipeline Capacity Right
Projects

- Alcoa Dike
- OCSD Rock Removal
- Reach 4D MAS Modifications
- Reach 4D Corrosion
Potential Pipeline Protection/Relocation

Map showing areas such as Pine Avenue, Alcoa Dike, and Lake Street.
Pretreatment Activities

- Update to Ordinance
- New Customers
  - Aramark
  - City of Beaumont
  - Rialto Bioenergy
- Pretreatment Program Technician
- Sampling Vehicle
QUESTIONS?
Inland Empire Brine Line
Alcoa Dike – Reach IVB/CRC Lateral Protection Relocation

David Ruhl, Engineering Manager
Project Agreement 24 Committee | November 5, 2019
Item No. 4.B
Prado Basin Perimeter Dikes

Adobe Dike
$375,000

Brine Line Protection
$6,354,000

Housing Dike
$110,000

Treatment Plant Dike
$107,000

Auxiliary Embankment

SR71 Embankment

Alcoa Dike

Prado Outlet Works
$5,250,000

Prado Dam Spillway
Alcoa Dike - Reach IVB/CRC Lateral

Alcoa Dike
- Phase 1 – Complete Mid 2020
- Phase 2 – Commence Late 2020

Stantec hired to evaluate Brine Line impacts
2 areas of Brine Line Impacted
Brine Line Protection / Relocation

- Relocate 520 ft of Reach 4B
- Protect 115 ft of CRC Lateral
- Preliminary Estimate of Construction Cost
  - $1,300,000 Reach 4B / $400,000 CRC Lateral
- Hired Stantec to Prepare Plans and Specifications
- Peer review workshop
- Schedule – 8 months, complete prior to Dike Phase 2 Construction
QUESTIONS?
Recommendation

- Receive and file
Brine Line Reaches 4A-4B Lower
Brine Line Reaches 4A-4B Lower
Operations Activities Summary

Access
- Road Grading
- Vegetation Removal

Maintenance Activities
- Pipeline Cleaning
- Pipeline Inspection
- Scale assessment

Repairs
- Corrosion on MAS 4A-0010
- Crack in Corona Lateral
Work completed

<table>
<thead>
<tr>
<th>Activity</th>
<th>Reach 4A Lower</th>
<th>Reach 4B Lower</th>
<th>Corona Lateral</th>
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</thead>
<tbody>
<tr>
<td>ROW Maintenance</td>
<td>1.5 miles</td>
<td>3 miles</td>
<td>0.3 miles</td>
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<tr>
<td>Line Inspection</td>
<td>-</td>
<td>1,400 ft</td>
<td>1,250 ft</td>
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<tr>
<td>Line Cleaning</td>
<td></td>
<td>1,400 ft</td>
<td>1,250 ft</td>
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<tr>
<td>MAS Inspected</td>
<td>19</td>
<td>15</td>
<td>3</td>
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</table>
Exposed aggregate on top of pipe

Downstream from MAS 4A-0010
Corona Lateral
Crack in 15-in Ø vitrified clay pipe
Epoxy lined structure
## Costs to Date

<table>
<thead>
<tr>
<th>Activity</th>
<th>Cost</th>
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</thead>
<tbody>
<tr>
<td>Mulcher/Grinder</td>
<td>$3,500</td>
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<tr>
<td>Steel plate/beam rental</td>
<td>$3,210</td>
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<tr>
<td>Equipment rental (loader)</td>
<td>$7,117</td>
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<tr>
<td>Line cleaning/inspection</td>
<td>$4,752</td>
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<tr>
<td>Corrosion repairs</td>
<td>$2,600</td>
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<tr>
<td>Corona Lateral repair</td>
<td>$2,600</td>
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<tr>
<td>TOTAL</td>
<td>$23,779</td>
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</tbody>
</table>
Recommendation

- Receive and file
Questions??
California Institution for Women
Flow Transfer to City of Chino

Carlos Quintero, Operations Manager
Project Agreement 24 Committee | November 5, 2019
Item No. 4.D
Recommendation

- Receive and file
California Institution for Women Flow Diversion from Brine Line to IEUA

IEUA RP-5

Mayhew Avenue

Brine Line

City of Chino Sewer Line

Pine Avenue

Existing Connection to Brine Line

CIW

Johnson Avenue Lift Station

Options to divert flows to IEUA
January 2019
Consent Order issued

January 2020
Deadline to transfer flows

Mid-2020
Transfer of flows (estimated)
Recommendation

- Receive and file
Questions??