Project Update

La Cienega Park & Frank Fenton Field Stormwater Infiltration and Groundwater Recharge Feasibility Assessment

Presented by:
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Project Manager

April 18, 2018
EWMP approved 4/20/16
Recipes for MS4 Compliance
TMDLs - Trash, bacterial, metals. etc.
Compliance by 2021
• 2,081 ac-ft., $2.7B
• 87 ac-ft. (BH), $72M

Compliance Strategies
• LIDs – 11 ac-ft., $4M
• Green Streets – 39 ac-ft., $27M
• Regional Projects – 37 ac-ft., $41M
EWMP Concept

Infiltration Typical Section

Binder to Grade

Perforated SRPE Pipe (Typ)

Min. 3 in.

Min. Stone Backfill w/ 40% Porosity

Projected Improvements

Drainage Map

Watershed and Vicinity
**Recommended BMP**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Total (Maximum) Drainage Area</td>
<td>7,776 acres</td>
</tr>
<tr>
<td>Alternative (Minimum) Drainage Area</td>
<td>578 acres</td>
</tr>
<tr>
<td>Maximum Required BMP Volume</td>
<td>352 AF</td>
</tr>
<tr>
<td>Alternative Required BMP Volume</td>
<td>24 AF</td>
</tr>
<tr>
<td>Groundwater Depth</td>
<td>25 feet</td>
</tr>
<tr>
<td>BMP Opportunity Area</td>
<td>6.4 acres</td>
</tr>
<tr>
<td>Recommended Maximum BMP Depth</td>
<td>8 feet</td>
</tr>
<tr>
<td>Available BMP Volume</td>
<td>51.3 AF</td>
</tr>
<tr>
<td>Recommended Active BMP Volume</td>
<td>24 AF</td>
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</tbody>
</table>

~ 7.8 MG per Rain Event
In October 2017, the City Council Awarded Contract to Black & Veatch

1. Assess feasibility of implementing a Regional Stormwater Project as prescribed in EWMP

2. Develop Stormwater Compliance Master Plan
   - Comprehensive Stormwater CIP Plan to address EWMP requirements
Black & Veatch Has:
  • Conducted additional geotechnical & hydrogeological investigations
  • Reviewed LA County Guidelines for Stormwater Infiltration & GW Recharge

Results of Investigations:
  • Soils 8-32-ft deep are susceptible to liquefaction, not allowed by County
  • Percolation rate 0.01-in/hr. **County Min. 0.3-in/hr.**
  • Historically high GW elevation, County requires at least 10-ft clearance
  • **Infiltration and Recharge not practical**
Potential Captured Volume of 24 ac-ft:

1. Harvesting and Direct Use
2. Diversion to Sanitary Sewer
3. Discharge back into MS4
4. Combination Thereof
On April 10, 2018:
- Staff and representatives from cities of LA & West Hollywood met
- Collective Recommendation was to Divert to Sanitary Sewers
- Most benefits downstream for Reuse while meeting MS4 requirements

**Technical Evaluations:**
1) Discharge Capacity
2) WQ Requirements (Pre-Treatment)
3) System Capacity Upgrades
4) Cost to Discharge to Sewers
Complete Technical Evaluation to Discharge to LA Sanitary Sewers
  • Staff and consultant are coordinating with City of LA

Meet with LA County Flood Control District
  • Requirements for Diversion Structure(s)

Evaluate Additional Potential Opportunities
  • i.e. Rancho Park project

Provide Status Update to Commission in June 2018 when information is available