

Safe, Clean Water Program

Upper San Gabriel River

Watershed Area Steering Committee (WASC)



Meeting Minutes:

Tuesday, January 30, 2020
1:00pm-3:00pm
Sanitation Districts of Los Angeles County
1955 Workman Mill Road, Whittier, CA 90601

Attendees:

Committee Members Present:

Julian Juarez (LA County Flood Control District)	Kevin Kearny* (Bradbury)
Robert O. Tock* (Upper San Gabriel District)	Alison Sweet (Glendora)
Tony Zampielo* (Main San Gabriel Basin)	Joshua Nelson (Industry)
Kristen Ruffell (Sanitation Districts)	Paul Alva (LA County)
Bob Huff (Huff Strategies)	Julie Carver (Pomona)
Debbie Enos (Watershed Conservation Authority)	Lisa O'Brien (La Verne)
Ed Reyes (Ed P. Reyes & Associates)	Mark Glassock* (Los Angeles County Parks and Recreation)
David Diaz (Active SGV)	
John Beshay (Baldwin Park)	

Committee Members Not Present:

Brian Urias (Former USGVMWD Board Member)

*Committee Member Alternate

See attached sign-in sheet for full list of attendees

1. Welcome and Introductions

Mr. Alva, the Chair of the Upper San Gabriel River WASC, called the meeting to order.

All committee members made self-introductions and quorum was established.

2. Approval of Meeting Minutes from January 13, 2020

The Los Angeles County Flood Control District (District) provided a copy of the meeting minutes from the previous meeting. Mr. Alva asked the committee members for comments or revisions. The committee had no comments.

The Committee voted to approve the meeting minutes from January 13, 2020 (unanimous).

3. Committee Member and District Updates

Mr. Kevin Kim (District) provided clarification on the Technical Resources Program, a summary of the new Ex Parte and COI Q&A guideline document, and a summary of the scoring progress so far by the Scoring Committee (SC).

The District clarified that the Technical Assistance Teams would be comprised of a group of subject matter experts provided by the District. It is estimated that approximately \$300,000 is needed to complete a

Safe, Clean Water Program

Upper San Gabriel River

Watershed Area Steering Committee (WASC)



Feasibility Study. The District will work closely with the applicant to develop the Feasibility Study, including the outreach/engagement plan, but a stipend will not be available for the applicant.

4. Public Comment Period

No public comment

5. Discussion Items:

a. IP: Pedley Spreading Grounds Project (East San Gabriel Valley Watershed Management Group)

Presentation by Alexis Holmdal and Ed Othmer (Stantec). This project proposes to deepen existing basins at the Pedley Spreading Grounds in order to accommodate 1.3 acre-feet of stormwater from a 45.8-acre drainage area during the 85th percentile, 24-hour storm.

Mr. Diaz asked what motivated development of this project. Mr. Othmer stated that the project was developed to assist in achieving compliance with MS4 permits.

Ms. Enos noted potential for multi-use opportunities and community benefits beyond the tours that were discussed. Mr. Othmer noted that this will be addressed as part of the community outreach and coordination.

Mr. Glasscock asked for clarification of DAC benefits. Mr. Othmer noted that the project is not directly located within a DAC, but would provide water supply benefits, regulatory relief for MS4 compliance, and education benefits to DACs.

Mr. O. Tock asked about the drainage area. Mr. Othmer noted that there was a conflict between available GIS data and as-builts that will be confirmed as part of the additional analysis for the project.

Ms. Ruffell asked if there are any other regional projects that may impact the proposed project. Mr. Othmer stated that regional projects were investigated as part of the process to identify priority projects. No other projects are planned within the area.

The committee discussed the possibility of phased funding. Mr. Othmer stated that they would be open to receiving initial funding for planning and design, then re-applying for construction at a later date.

b. IP: Garvey Avenue Grade Separation Drainage Improvement Project (City of El Monte)

Presentation by Ed Suher (CASC Engineering and Consulting). The project proposes a new storm drain and infiltration system (galleries beneath street) to alleviate local flooding. An additional design objective is to improve the water quality of the San Gabriel River by capturing pollutants from low flows and stormwater runoff from rain events.

The committee discussed opportunities for above-ground amenities, greening of the corridor, reducing island effects, etc. The applicant will consider these suggestions; however, opportunities are limited due to the physical constraints of the project area.

Safe, Clean Water Program

Upper San Gabriel River

Watershed Area Steering Committee (WASC)



Ms. Ruffell asked if the project was included in the EMWP. Mr. Suher stated that the City has their own Watershed Management Plan and the intent is to be included in an EWMP once constructed.

Mr. Diaz asked about workforce development opportunities. Mr. Branden Yu (City of El Monte) noted that the City has a Public Labor Agreement in place to hire local workers.

Ms. Carver asked about the current pump station. Mr. Suher stated that the current pump station is no longer sufficient, likely due to increased flows and urbanization.

Mr. Juarez noted that the project is located near the San Gabriel River and Whittier Narrows Dam with high percolation rates. Therefore, the water supply benefits may be minimal, but he recognizes the water quality and localized flooding benefits.

c. TRP: MacLaren Hall Property Park and Sports Field Concept Project (City of El Monte)

Presentation by Ed Suher (CASC Engineering and Consulting). The project concept seeks to develop the MacLaren Hall Property (a former LA County Child Services Facility) into a park and sports fields complex. Water quality improvements could include diverting some of the off-site runoff from the nearby storm drain into the park for infiltration and landscaping improvements to beautify the park and sports field complex.

Ms. Ruffell asked about the infiltration rate at the project. Mr. Suher stated that infiltration data is limited, and estimates are based on data from adjacent areas.

The committee discussed outreach and engagement opportunities. It was noted that the location is a high-density urban area with a diverse community. The committee encouraged diversity of onsite uses to address gender and generational disparity and to investigate opportunities for porous pavers, walking trails, and water reuse.

d. TRP: Brackett Field Stormwater Infiltration Project (East San Gabriel Valley Watershed Management Group)

Presentation by Alexis Holmdal and Ed Othmer (Stantec). This project proposes to install an underground infiltration gallery within Brackett Field Municipal Airport in order to infiltrate 15.5 acre-feet of stormwater from a 321-acre drainage area during the 85th percentile, 24-hour storm.

Mr. Zampielo asked about potential environmental contamination. Mr. Othmer noted that a Phase 1 and 2 site assessment would be conducted as part of the additional analysis for the project.

Mr. Juarez clarified that the project would provide only localized flooding benefits and would not reduce regional flood risk.

Mr. Alva requested clarification on municipality benefits. Mr. Othmer stated that the city of La Verne would be the primary beneficiary. However, other cities, such as Pomona, Claremont and San Dimas would also benefit from MS4 compliance.

Ms. Enos recommended the project investigate alternatives to improve cost-effectiveness.

Safe, Clean Water Program

Upper San Gabriel River

Watershed Area Steering Committee (WASC)



e. TRP: Fairplex Regional Stormwater Project (East San Gabriel Valley Watershed Management Group)

Presentation by Alexis Holmdal and Ed Othmer (Stantec). This project proposes to install an underground infiltration gallery within the Fairplex's Grandstand Field in order to infiltrate 31 acre-feet of stormwater from a 488-acre drainage area during the 85th percentile, 24-hour storm.

Mr. Glassock asked about recreational opportunities. Mr. Othmer clarified that the field would be replaced in kind. Mr. Glassock also asked about project delivery/staging considerations. Mr. Othmer clarified that the funding requests were staggered to align with the Safe, Clean Water Program's anticipated available funding.

Ms. Enos recommended the project evaluate the Fairplex Master Plan and long-term plans for use of the facilities during development of the project.

Mr. Reyes asked about vector control issues. Mr. Othmer stated that the project was designed to draw down within 48 hours and the O&M would be planned to minimize vector concerns. The project is not currently considering providing additional vector control measures to minimize existing issues.

A member of the public noted that the committee should consider a holistic approach to evaluating DAC benefits and that a project's claimed DAC benefits may not be in line with the intent of the program.

6. Voting Items

None.

7. Items for next agenda

The District recommends the following items for the next agenda:

- Presentations from Infrastructure Program Project applicants.

Mr. Alva solicited additional recommendations from the committee for the next agenda.

Mr. Alva noted that County Counsel may attend a future meeting to provide guidance on Ex Parte communication, if needed.

8. Adjournment

Mr. Alva thanked the committee members and public for their time and participation and adjourned the meeting.

Upper San Gabriel River
 Watershed Area Steering Committee Meeting
 COMMITTEE MEMBER AND ALTERNATE SIGN-IN



Member Name	Municipality/ Organization	Email Address		Signature
Julian Juarez	FCD	JJUAREZ@dpw.lacounty.gov	P	<i>Julian Juarez</i>
Carolina Hernandez	FCD	CHERNANDEZ@dpw.lacounty.gov	A	
Tom Love	Upper San Gabriel District	tom@usgvmwd.org	P	
Robert O. Tock	Upper San Gabriel District	robert@usgvmwd.org; christy@usgvmwd.org	A	<i>Robert O. Tock</i>
Kelly Gardner	Main San Gabriel Basin	kelly@watermaster.org	P	
Tony Zampiello	Main San Gabriel Basin Watermaster	tony@watermaster.org	A	<i>Tony Zampiello</i>
Kristen Ruffell	Sanitation Districts	kruffell@lacsds.org	P	<i>Kristen M. Ruffell</i>
Martha Tremblay	Sanitation Districts	mtremblay@lacsds.org	A	
Alina Bokde	Los Angeles County Parks and Recreation	Abokde@parks.lacounty.gov	P	
Mark Glassock	Los Angeles County Parks and Recreation	mglassock@parks.lacounty.gov	A	<i>Mark Glassock</i>
Bob Huff	Huff Strategies	bobhuff99@gmail.com	P	<i>Bob Huff</i>
Bryan Urias	Former USGVMWD Board Member	b.urias@yahoo.com	P	
Brian Villagomez	SGV Habitat For Humanity	bdv8@humboldt.edu	A	
Debbie Enos	Watershed Conservation Authority	denos@wca.ca.gov	P	<i>Debbie Enos</i>
Jane Tsong	Watershed Conservation Authority	jtsong@wca.ca.gov	A	

Upper San Gabriel River
 Watershed Area Steering Committee Meeting
 COMMITTEE MEMBER AND ALTERNATE SIGN-IN



Member Name	Municipality/ Organization	Email Address		Signature
Ed Reyes	Ed P. Reyes & Associates	ed.p.reyesla@gmail.com	P	
David Diaz	Active SGV	david@activesgv.org	P	
Wesley Reutimann	Active SGV	wes@activesgv.org	A	
John Beshay	Baldwin Park	JBeshay@baldwinpark.com	P	
Romany Basilyous	West Covina	RBasilyous@westcovina.org	A	
Amanda Hamilton	Duarte	ahamilton@accessduarte.com	P	
Kevin Kearney	Bradbury	kkearney@cityofbradbury.org	A	
Alison Sweet	Glendora	asweet@cityofglendora.org	P	
Sharon Gallant	Covina	SGallant@covinaca.gov	A	
Joshua Nelson	Industry	JNelson@cityofindustry.org	P	
John Di Mario	La Puente	jdimario@lapuente.org	A	
Paul Alva	Los Angeles County	PALVA@dpw.lacounty.gov	P	
Mark Lombos	Los Angeles County	MLOMBOS@dpw.lacounty.gov	A	
Fernando Villaluna	Los Angeles County	FVILLALUNA@dpw.lacounty.gov	A	
Julie Carver	Pomona	Julie_Carver@ci.pomona.ca.us	P	

Upper San Gabriel River
 Watershed Area Steering Committee Meeting
 COMMITTEE MEMBER AND ALTERNATE SIGN-IN



Member Name	Municipality/ Organization	Email Address		Signature
Fabian Aoun	Diamond Bar	faoun@diamondbarca.gov	A	
Lisa O'Brien	La Verne	lobrien@cityoflaverne.org	P	<i>L O'Brien</i>
Shari Garwick	San Dimas	SGarwick@sandimasca.gov	A	
<i>David Lopez</i>	<i>City of Baldwin Park</i>	<i>dlopez@baldwinpark.com</i>		<i>David Lopez</i>
<i>John Hunter</i>	<i>JLHA</i>	<i>J Hunter @ JLHA.net</i>		

Upper San Gabriel River
 Watershed Area Steering Committee Meeting
 PUBLIC SIGN-IN



First Name	Last Name	Municipality/Organization	Email Address
Hans	Trennel	Weston Solutions	hans.trennel@westonsolutions.com
ED SUHER	SUHER	EL MONTE / CASC	
JAMES	CRANSIE	CITY OF INDUSTRY / CNC	jcransie@cnc-eng.com
JOSHUA	FELTON	LACPW	
Veronica	Seyde	WSP	Veronica.Seyde@wsp.com
TORI	KLUG	Stantec	tori.klug@stantec.com
PAUL ALVA	ALVA	LA County	palva@elpasocounty.gov
Iwen	Tsezy	LA County	
Lauren Marshall →		City of San Dimas	lmarshall@condimassan.gov
Dan & Yvonne Liversay		IEC	inlandengineering@gmail.com
MICHAEL LEWIS		CICWQ	MIKE@LEWISANDCO.NET

*Signing or completing this form is voluntary for members of the public

Upper San Gabriel River
 Watershed Area Steering Committee Meeting
 PUBLIC SIGN-IN



First Name	Last Name	Municipality/Organization	Email Address
BLAKE	WHITTINGTON	SELF	
Braden	Yu	city of El Monte	
Ryan	Kearns	CWE	RKEARNS@CWE.CORP.COM
Ernie Mansfield	Mansfield	Elmont.	EMANSFIELD@CASC.UTL.COM
Elizabeth	Rvedas	Michael Baker International	Elizabeth.Rvedas@mbakerintl.com

*Signing or completing this form is voluntary for members of the public

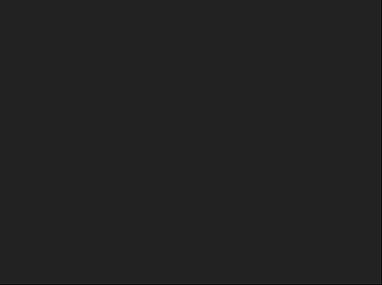
Pedley Spreading Grounds Project

Total Funding Requested:
\$2,825,900

Ed Othmer PE, CPESC, CPSWQ,
QSP/D ToR, QISPToR, ENV SP, PMP,
& Alexis Holmdal PE, PMP, ENV SP
(Stantec), representing the East
San Gabriel Valley Watershed
Management Group in partnership
with Six Basins Watermaster

Upper San Gabriel River
Watershed Area Steering
Committee (WASC)
January 30, 2020

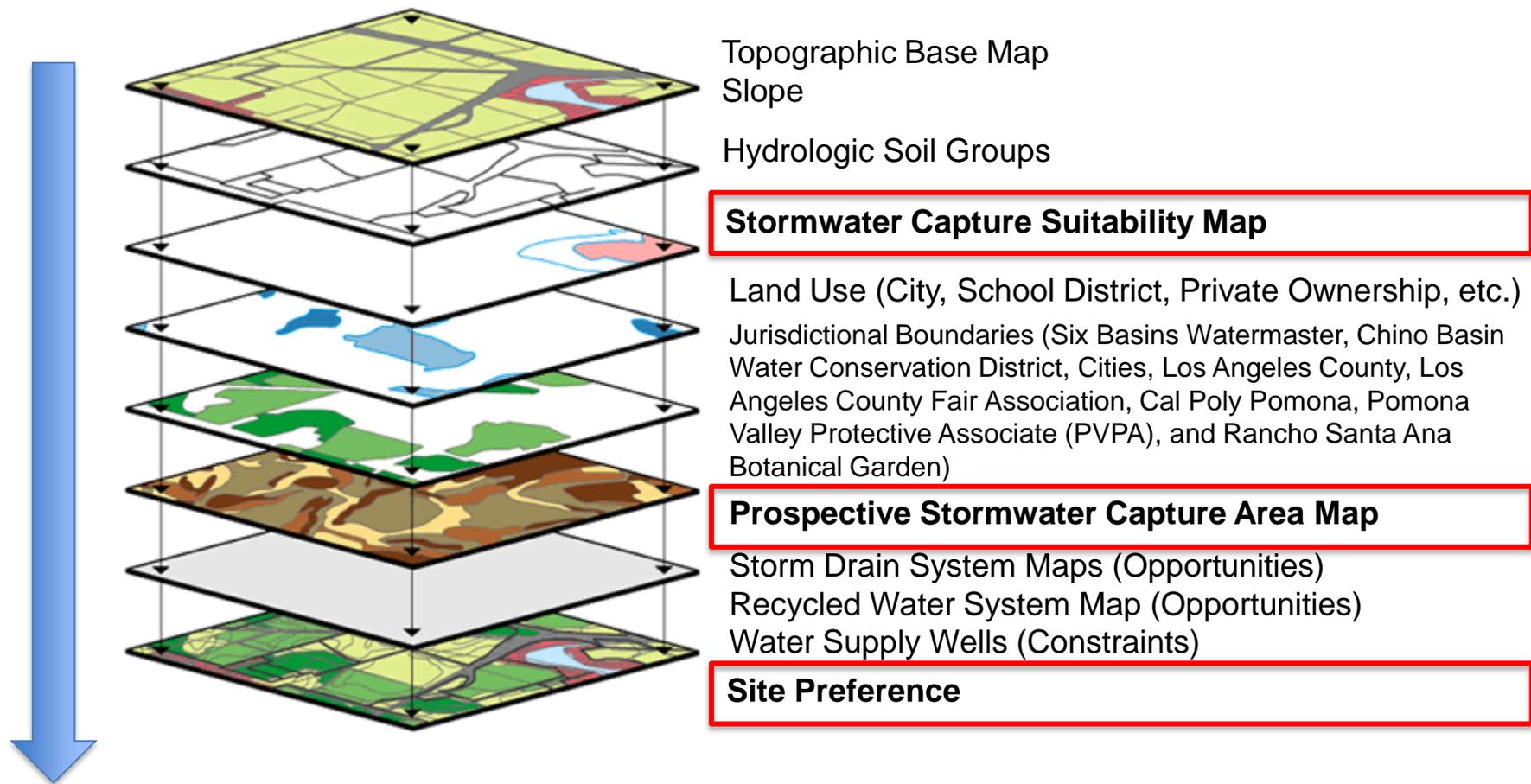




Agenda

- Site Selection Process
- Project Location
- Project Details
- Summary of Benefits

Site Selection Process



Topographic Base Map
Slope

Hydrologic Soil Groups

Stormwater Capture Suitability Map

Land Use (City, School District, Private Ownership, etc.)
Jurisdictional Boundaries (Six Basins Watermaster, Chino Basin Water Conservation District, Cities, Los Angeles County, Los Angeles County Fair Association, Cal Poly Pomona, Pomona Valley Protective Associate (PVPA), and Rancho Santa Ana Botanical Garden)

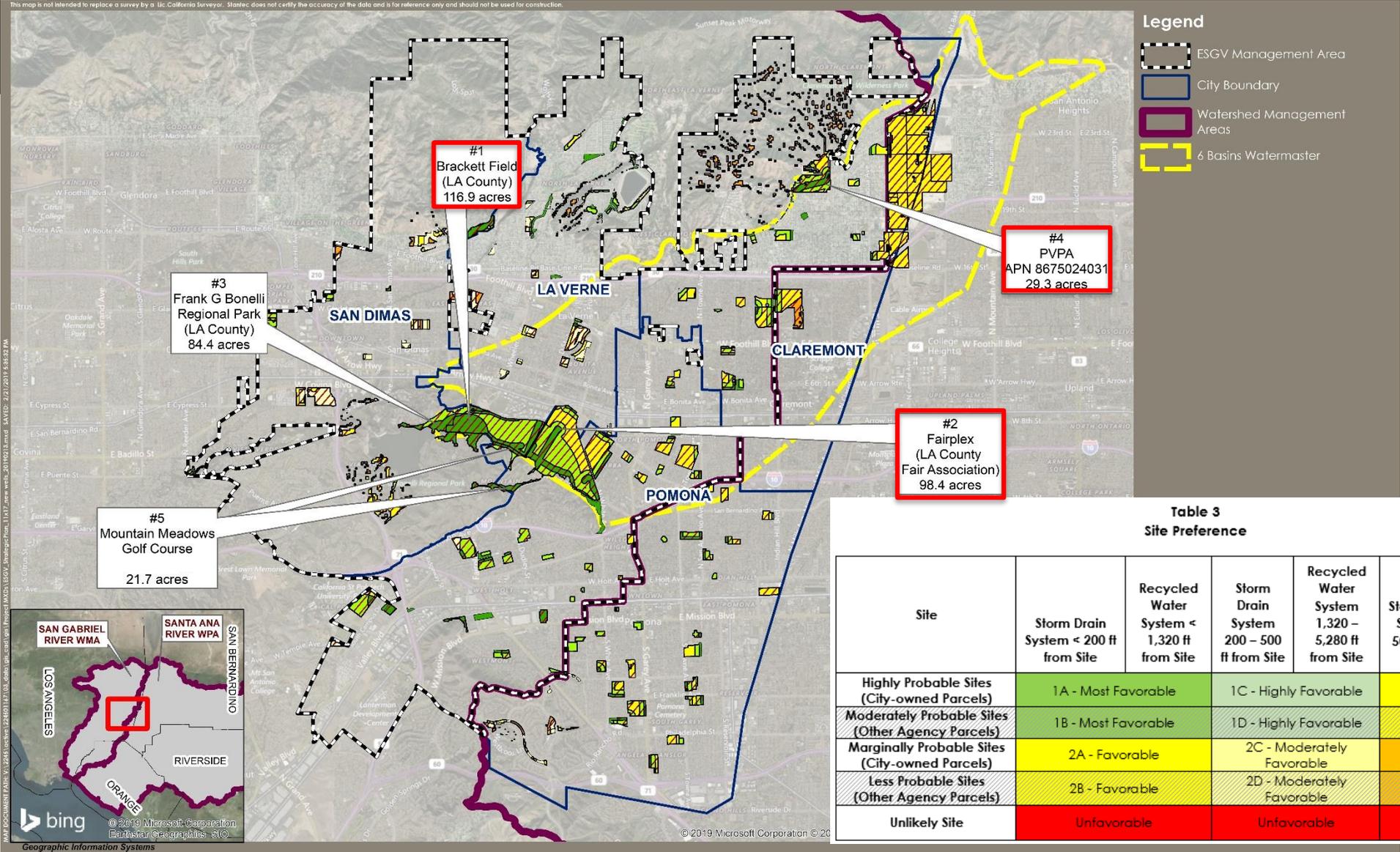
Prospective Stormwater Capture Area Map

Storm Drain System Maps (Opportunities)
Recycled Water System Map (Opportunities)
Water Supply Wells (Constraints)

Site Preference

Identify Site Preferences

Most Favorable Sites



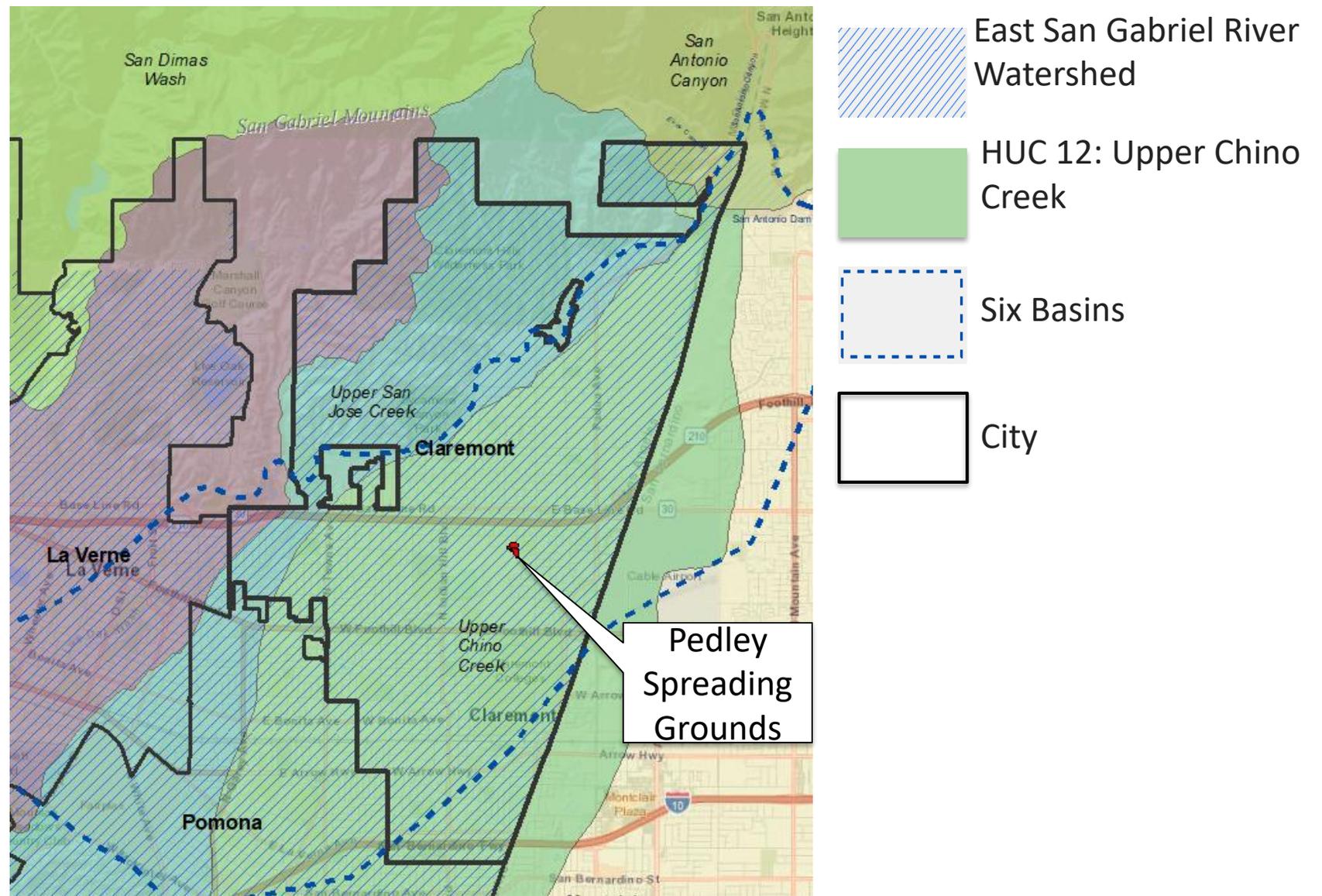
- Legend**
- ESGV Management Area
 - City Boundary
 - Watershed Management Areas
 - 6 Basins Watermaster

**Table 3
Site Preference**

Site	Storm Drain System < 200 ft from Site	Recycled Water System < 1,320 ft from Site	Storm Drain System 200 – 500 ft from Site	Recycled Water System 1,320 – 5,280 ft from Site	Storm Drain System > 500 ft from Site	Recycled Water System > 5,280 ft from Site
Highly Probable Sites (City-owned Parcels)	1A - Most Favorable		1C - Highly Favorable		1E - Favorable	
Moderately Probable Sites (Other Agency Parcels)	1B - Most Favorable		1D - Highly Favorable		1F - Favorable	
Marginally Probable Sites (City-owned Parcels)	2A - Favorable		2C - Moderately Favorable		2E - Less Favorable	
Less Probable Sites (Other Agency Parcels)	2B - Favorable		2D - Moderately Favorable		2F - Less Favorable	
Unlikely Site	Unfavorable		Unfavorable		Unfavorable	

Site Preference - Top 5 Most Favorable
 ESGV STRATEGIC PLAN
 STORMWATER CAPTURE OPPORTUNITY ASSESSMENT

Watershed



Site Location



Existing Surface Water Supply



Pedley Spreading Grounds

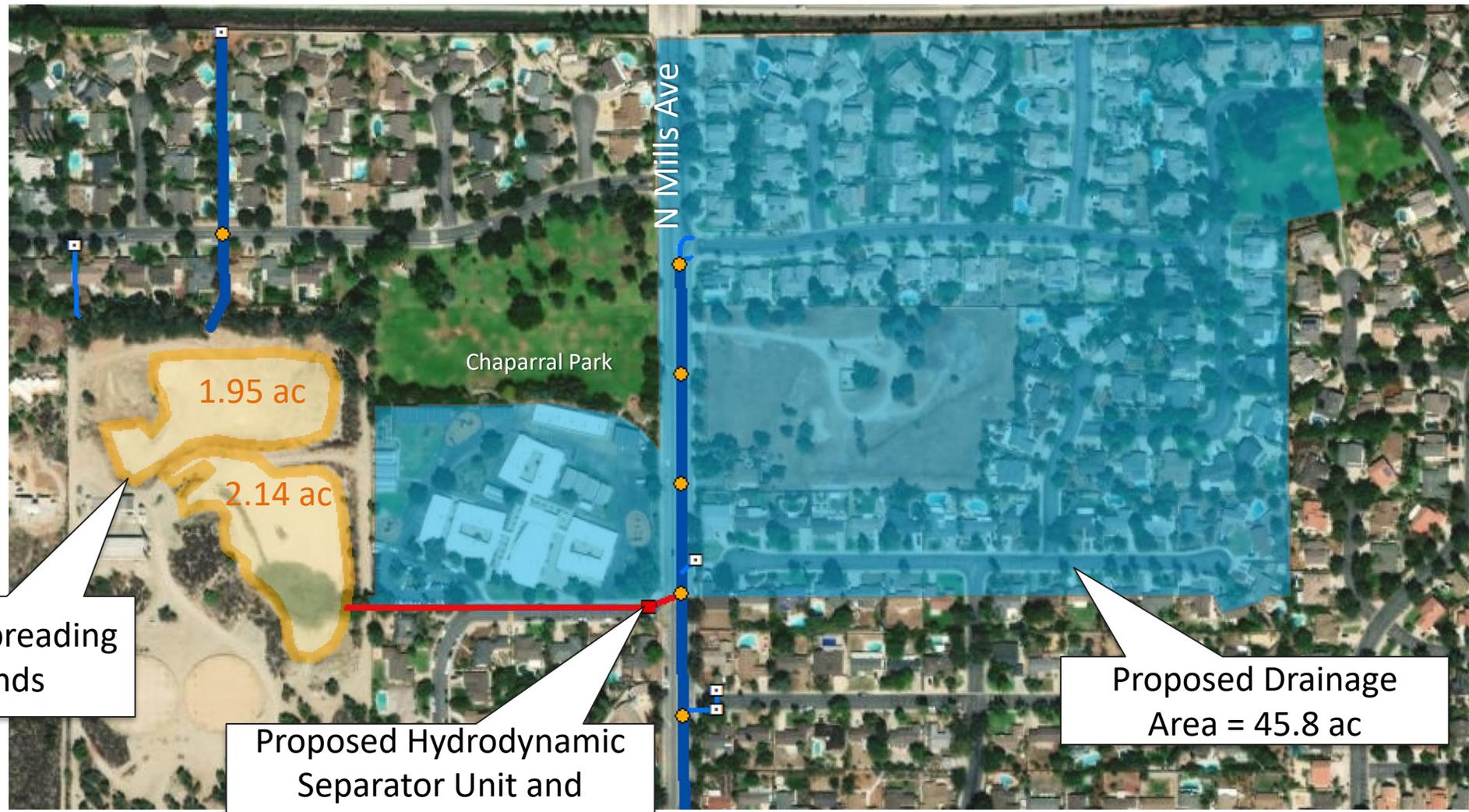
Municipal Benefits

- Improved water quality – comply with MS4 permit
- Ground water recharge
- Water supply reliability
- Emulation of hydrologic processes
- Flood risk management
- Educational benefits – tours of facility (e.g., Chaparral Elementary School)
- Collaboration with key stakeholders: Cities of San Dimas, Claremont, Pomona, La Verne, and Upland, Golden State Water Company, San Antonio Water Company, Three Valleys Municipal Water District, Pomona College, Pomona Valley Protective Association (PVPA), and Industrial Environment Association (IEA)

Benefits to Disadvantaged Communities

- Increased local water supply reliability
- Reduced risk of regulatory burden on general funds and resulting reduction of municipal and county services
- Provide educational benefits within Six Basins (e.g., facility tours)

Proposed Drainage Area

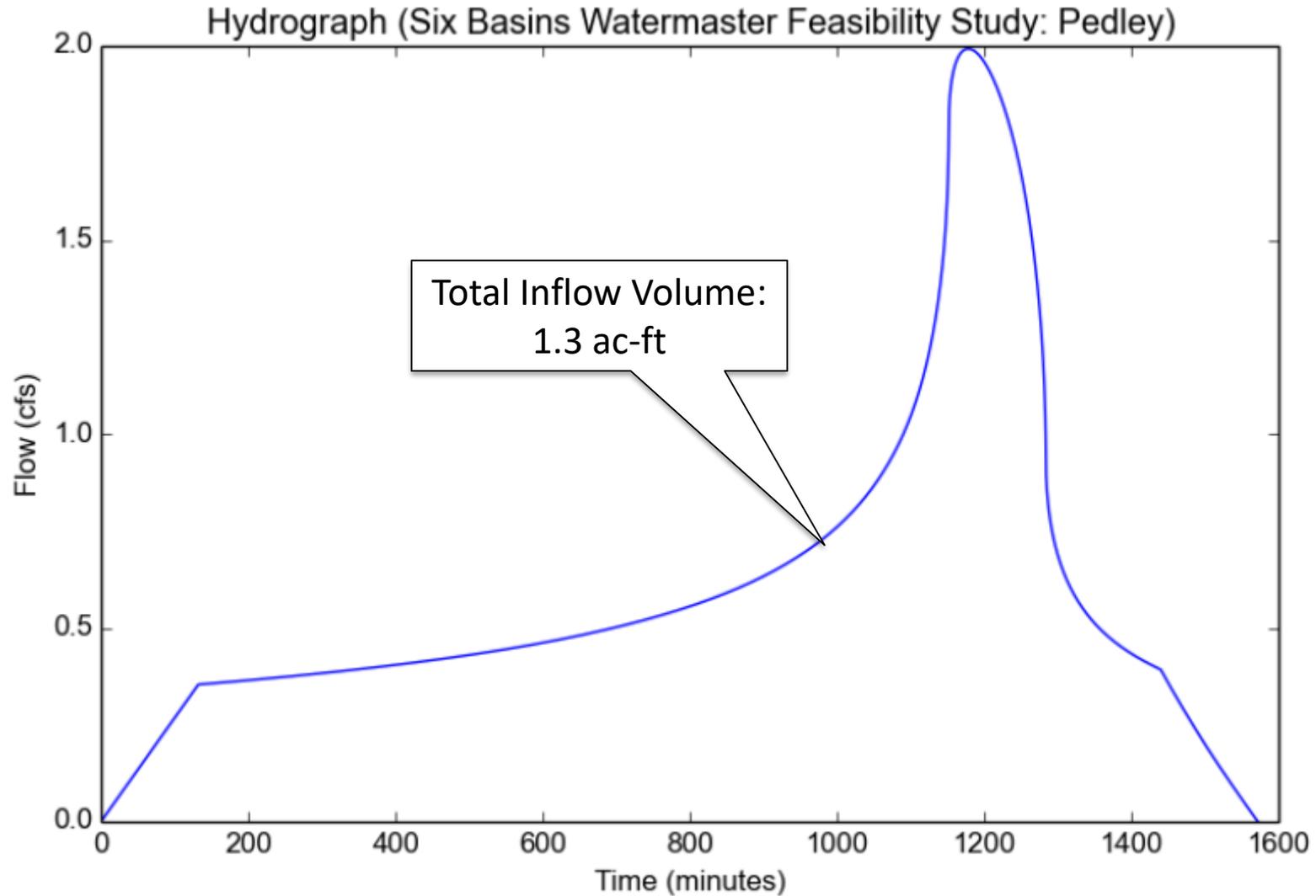


Existing Spreading Grounds

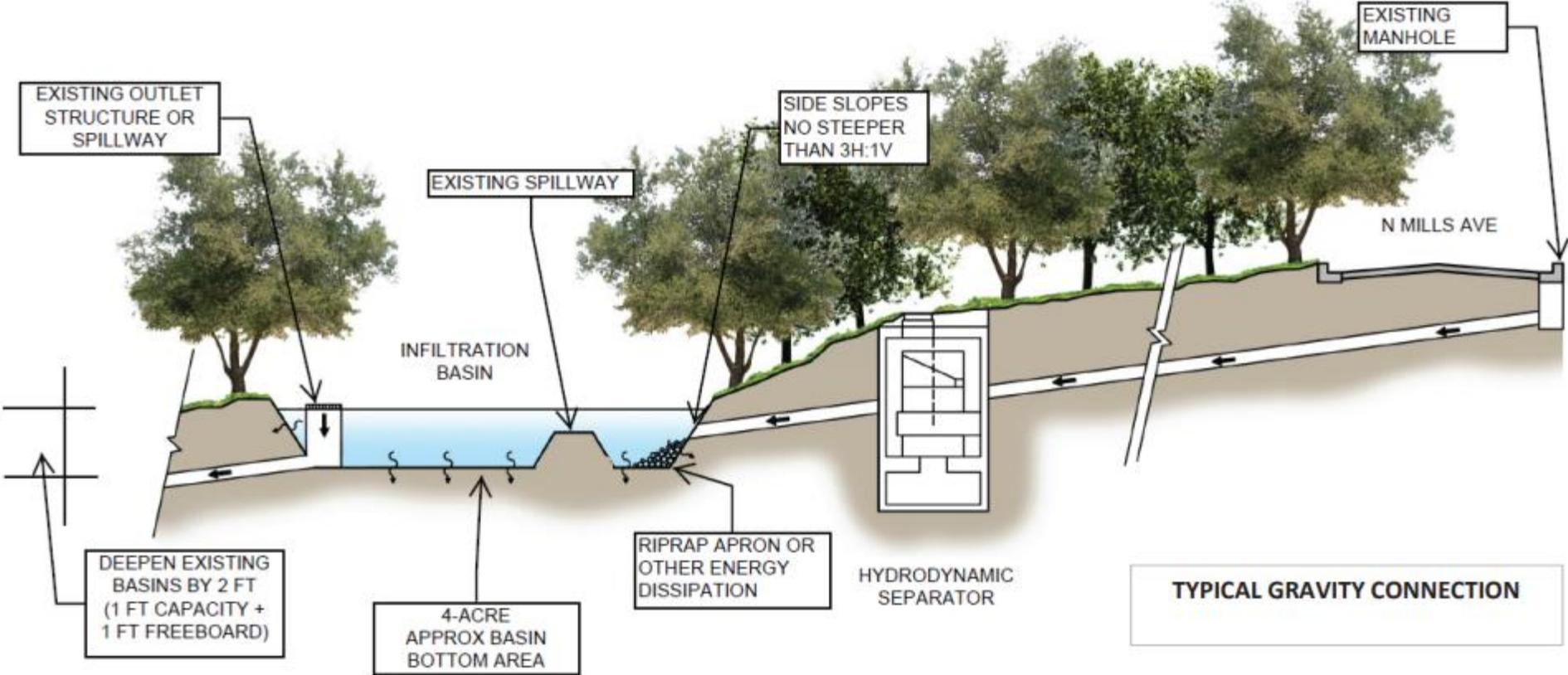
Proposed Hydrodynamic Separator Unit and Gravity Connection

Proposed Drainage Area = 45.8 ac

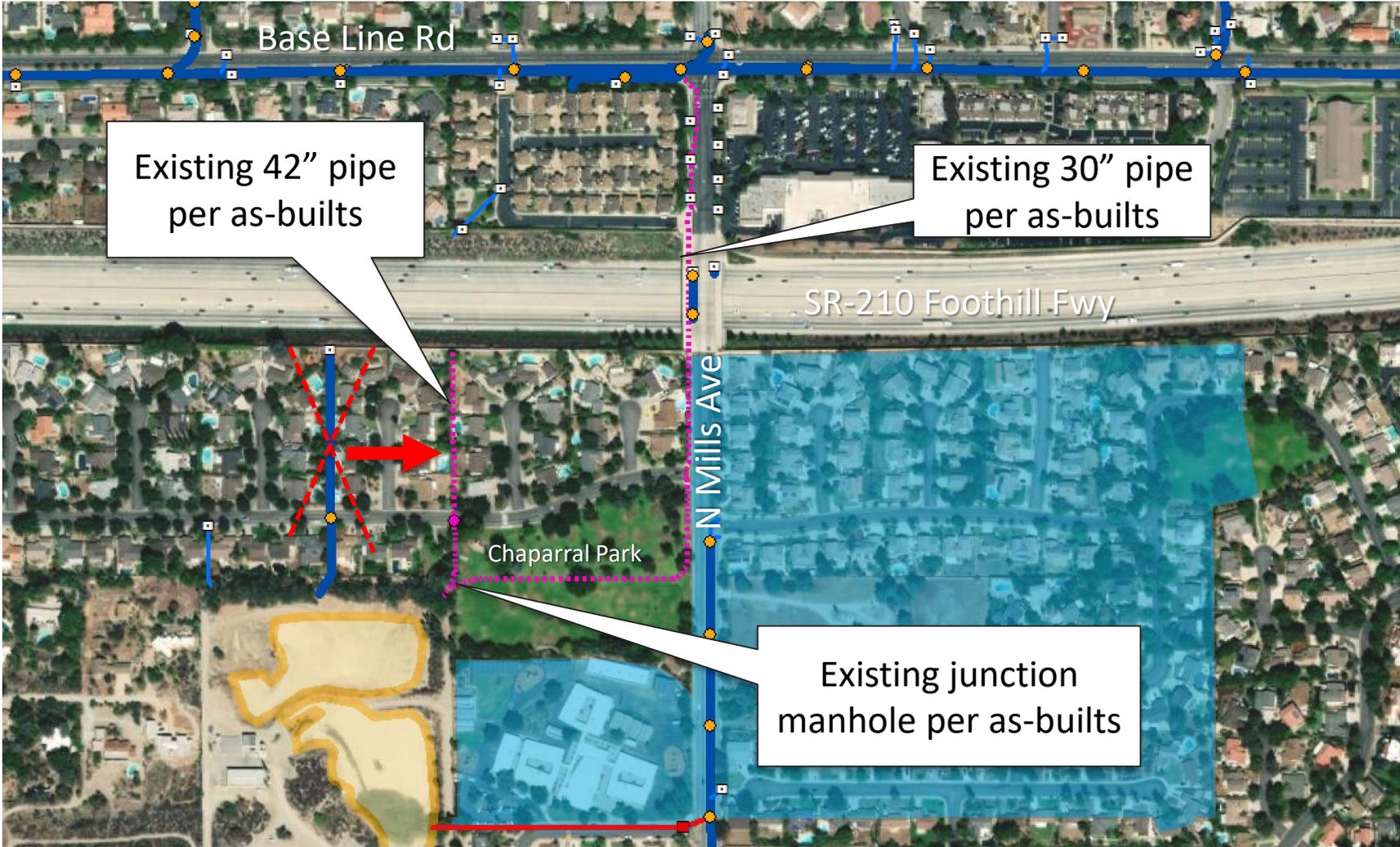
85th Percentile, 24-Hour Storm Hydrograph



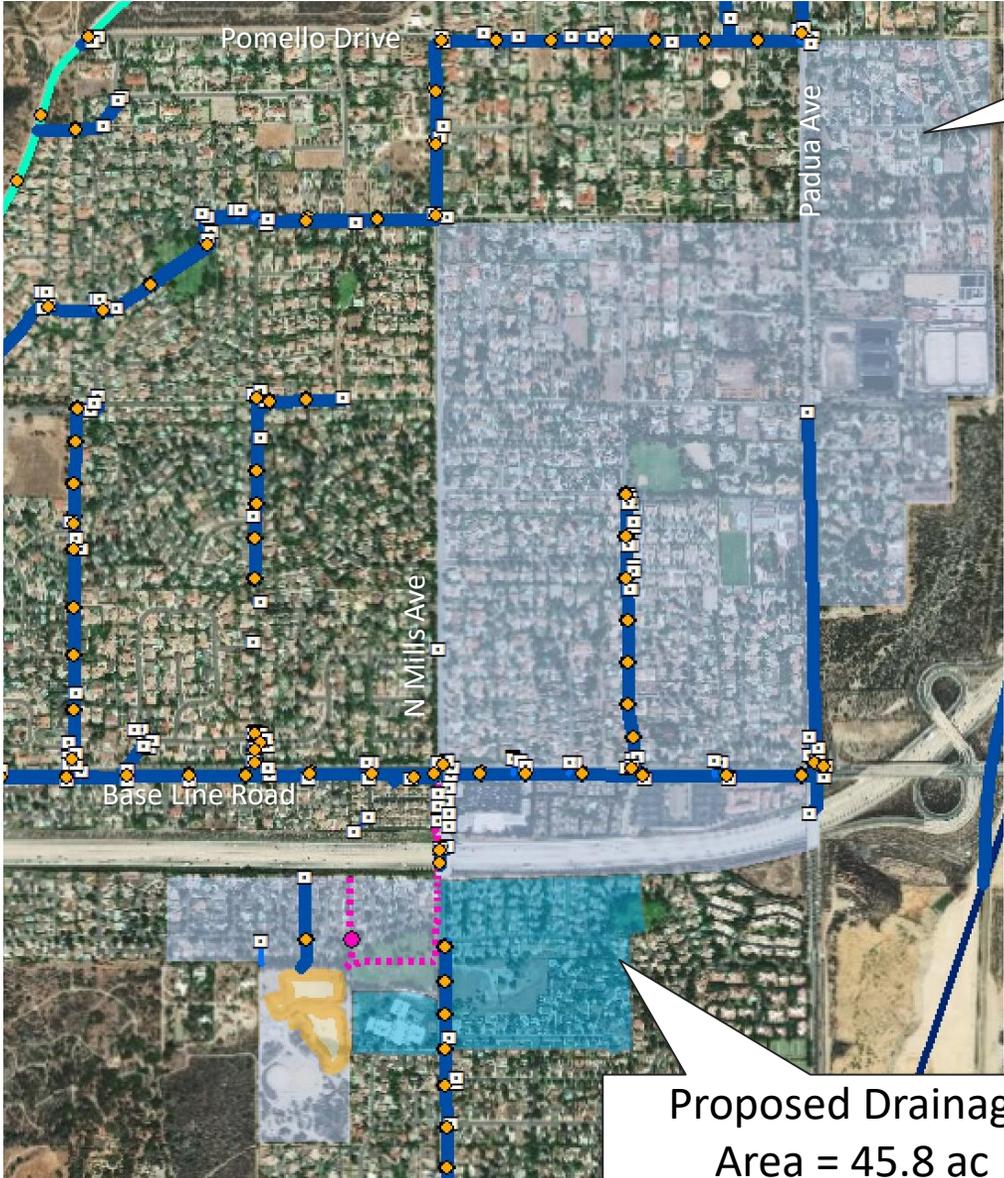
Conceptual Profile



GIS/As-Built Differences



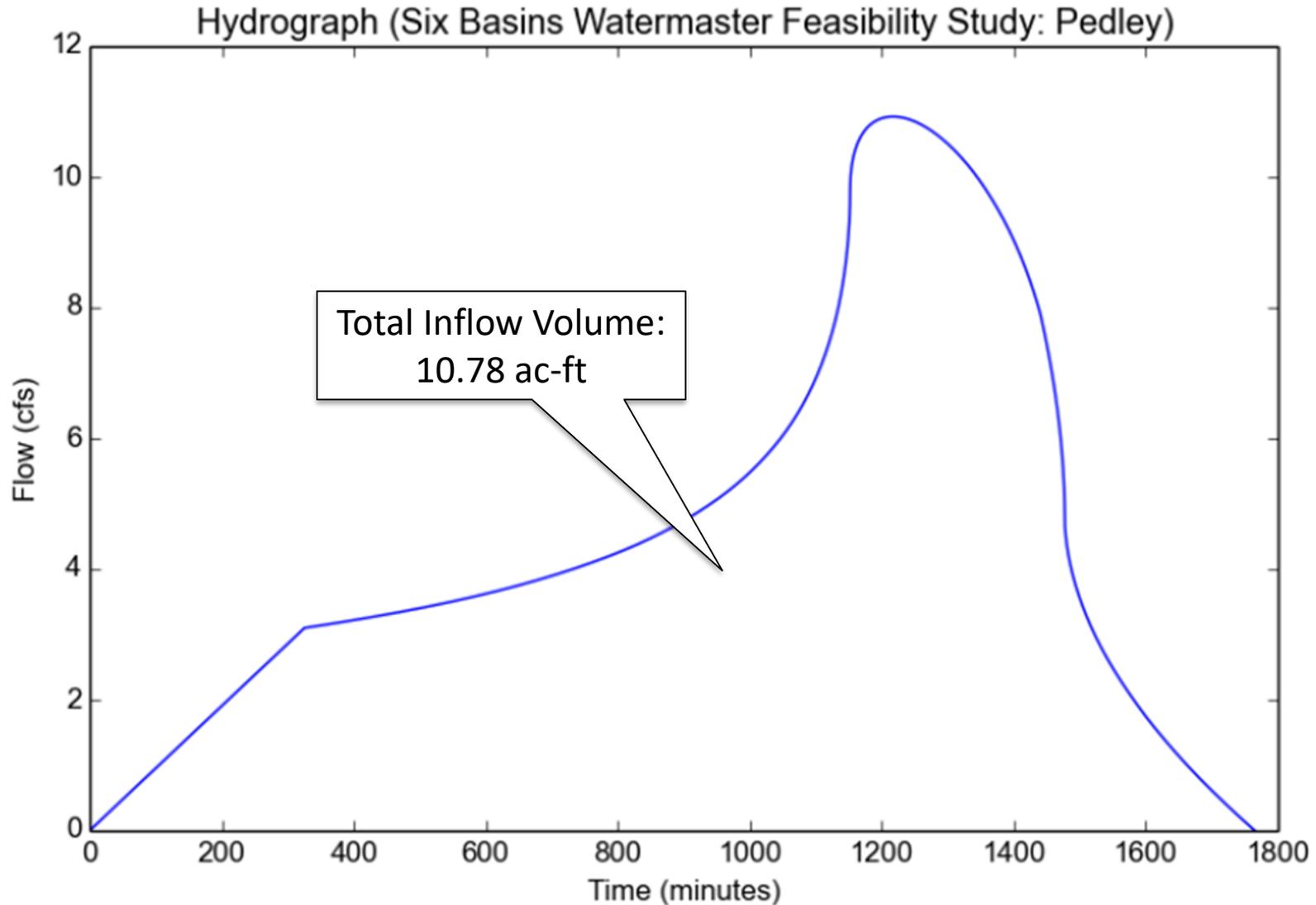
Confirmation of Drainage Area



Drainage Area = 441.1 ac

Proposed Drainage Area = 45.8 ac

85th Percentile, 24-Hour Storm Blended Hydrograph



Project Schedule & Expenditure Projections

Project Phase	General Timeframe
Design	May 2021 – May 2022
Permitting	June 2022 – December 2022
Construction	January 2023 – January 2025

Fiscal Year	Description of Expenditure	Funding Request
July 2020 – June 2021	Preparation of Grant Applications, Design and Planning	\$102,760
July 2021 – June 2022	Design and Planning, Obtaining Permits	\$154,140
July 2022 – June 2023	Obtaining Permits, Construction	\$1,330,180
July 2023 – June 2024	Construction	\$1,212,120
July 2024 – June 2025	Construction, Inspection	\$26,700
Total Funding Requested		\$2,825,900

Water Quality & Water Supply

 24-hour BMP Capacity: 41.76 ac-ft
(additional capacity for water supply)

 Annual Average Capture: 23.75 ac-ft (based
on 1.3 ac-ft inflow volume from the 85th
percentile, 24-hour storm event)

Pollutant Removal

- 100% Pollutant Removal
 - Total Zinc: 10.2 lbs
 - Total Copper: 3.2 lbs
 - Total Lead: 1.6 lbs
 - Total Nitrogen: 268.8 lbs
 - Total Phosphorus: 32.8 lbs



Community Investment Benefits

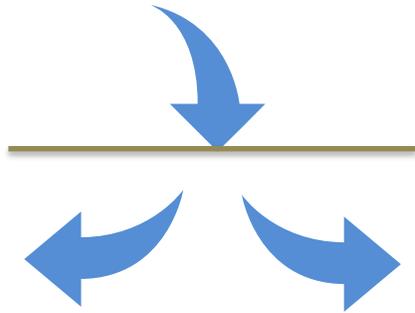


Stormwater diversion from the drainage system mitigates flood risk to surrounding neighborhood and park



Decreases impact of non-point source pollutants, thereby enhancing habitats

Nature-Based Solutions



Promotes infiltration of stormwater through natural soils of spreading ground, thereby increasing the yield of groundwater aquifers and decreasing the impact of non-point source pollutants.

Community Support



Ms. Julie Carver
Environmental Programs Supervisor
148 N. Huntington St.
Pomona, CA 91768

Subject: Support for East San Gabriel Stormwater Projects

Dear Ms. Carver,

I am contacting you on behalf of the Industrial Environmental Association (IEA) to voice our support for the East San Gabriel Valley Watershed Management Group's (Group) regional stormwater projects. Toward that end, IEA fully supports the Group's application for Safe Clean Water Program funding because we believe that the projects will improve water quality and water supply in the watershed.

The Industrial Environmental Association is an NGO founded in 1983 that represents manufacturing related companies in the southern California region. Reliable water quality and water supply is essential to our members to support manufacturing processes. And while our member companies have worked diligently to reduce their own process water consumption, the Group's efforts are essential to help insure there is ample water for future residents and businesses in the area.

Thank you for this opportunity for IEA to support the Group's efforts and its application for funding.

Best regards,

A handwritten signature in black ink that reads 'Jack Monger'. The signature is written in a cursive style.

Jack Monger

Q and A

Ed Othmer, PE CPESC, CPSWQ, QSP/D ToR, QISP ToR, ENV SP, PMP
North America Wet Weather Sector Leader

Tel: +1 858 751 1219

Cell: +1 619 279 3682

Ed.Othmer@stantec.com

Alexis Holmdal, PE, PMP, ENV SP
Civil Engineer

Tel: +1 617 314 7117

Alexis.Holmdal@stantec.com



Garvey Avenue Grade Separation Drainage Improvement Project

January 30, 2020 for the Watershed Area Steering Committee – Upper San Gabriel River

Project Applicant:
City of El Monte

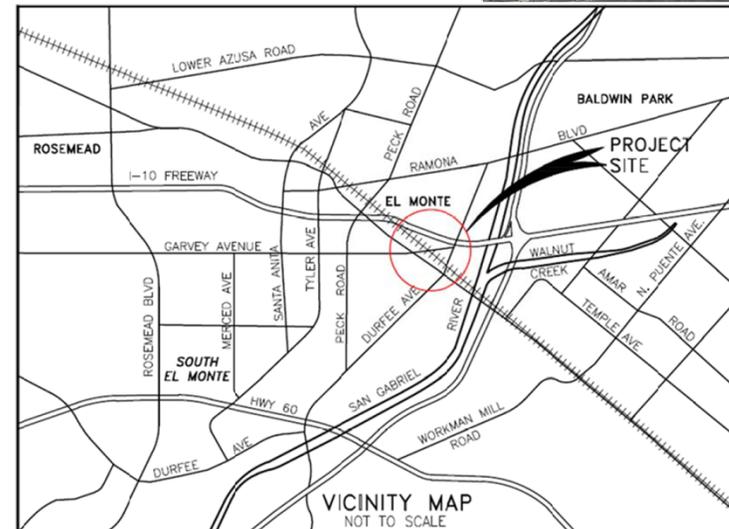
Presenter:
Ed Suher, CASC Engineering and Consulting

Total Funding Requested:
\$4,000,000.00



Project Location & Overview

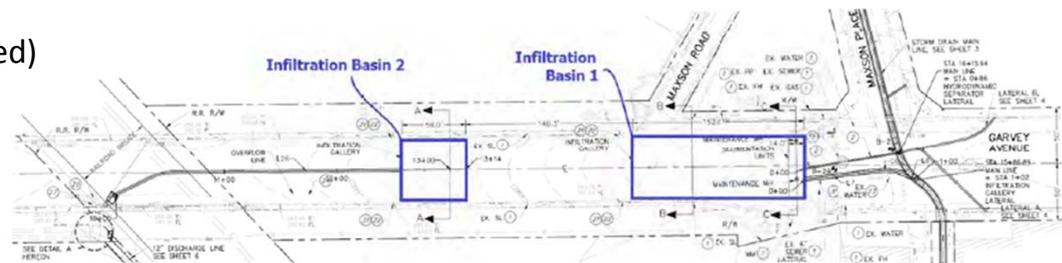
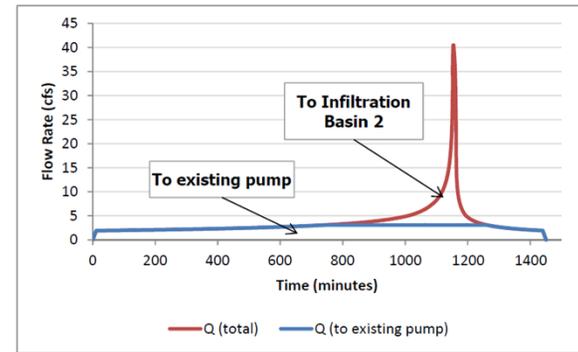
- Upper San Gabriel River Watershed Area, City of El Monte
 - Watershed Management Program
- Yearly increases in flooding to underpass requires a new storm drain and infiltration system
- Reduce demand for emergency services and prevent traffic hazards
- Create safer driving conditions and ensure a navigable road
- Less standing water





Design Objectives

- Four proposed catch basins on Maxson Place will capture flows
 - Caltrans' roadway runoff
 - Triple 24-inch culvert
 - Nearby mobile home park and commercial lots
- Two new catch basins on Garvey Ave will capture flows east of Maxson Place
 - Commercial properties
- Two underground infiltration galleries
 - Capture 6.65 acre-feet of stormwater (module generated)
 - Pre-treatment sedimentation unit
- Overflow storm drain and discharge line





Project Details

- Conducted:
 - Draft Initial Study / Mitigated Negative Declaration
 - Environmental Assessment
 - Geotechnical Engineering Report
 - Hydrology and Hydraulics Analysis
 - Preliminary Design Report
- Project is ready to move forward pending:
 - Funding for final planning
 - Funding for final civil engineering
 - Funding for construction





Project Details

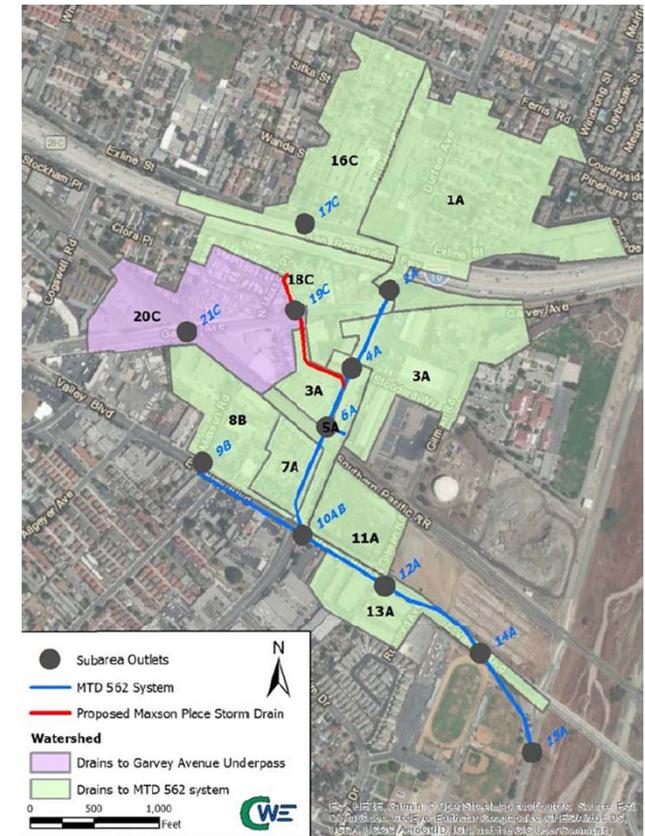
Schedule	Year Completed	Expenditure Projections (estimated)
Funding awarded	Spring 2020	-
Right-of-Way Acquisition	Spring 2020	\$27,874.00
Develop O&M Plan	Spring 2020	\$7,684.00
Contract award for construction	Spring 2020	-
Conditions of Approval Fees and Issuance of Permits	Summer 2020	\$44,102.00
Construction	Fall 2020	\$3,900,000.00
Progress Meetings, Field Visits, Utilities Coordination	Fall 2021	\$10,340.00
Additional Planning Overhead	Fall 2021	\$10,000.00
Build-out Complete	Fall 2021	-
	Total	\$4,000,000
Ongoing operations & maintenance, inspection, effectiveness monitoring	2021 - 2025	\$17,000





How the Score Was Achieved

- Project design based on a 50-year, 24-hour storm event and will capture and infiltrate the 85th percentile storm event
- Infiltration galleries will have storage capacity of 6.65 acre-feet
 - Recharge groundwater aquifer at an effective draw down rate of 3 in/hr
- Drainage area that contributes runoff to the underpass is 47 acres of urbanized area and impervious area is expected to increase with development
 - Annual average inflow to project: 461 acre-feet (module generated)
 - Annual average capture for water supply: 458 acre-feet (module generated)
- 85 - 99.6% load reduction in major pollutants, including bacteria
- Cost-effectiveness for water supply benefit is \$409/acre-foot (module generated)





How the Score Was Achieved (cont.)

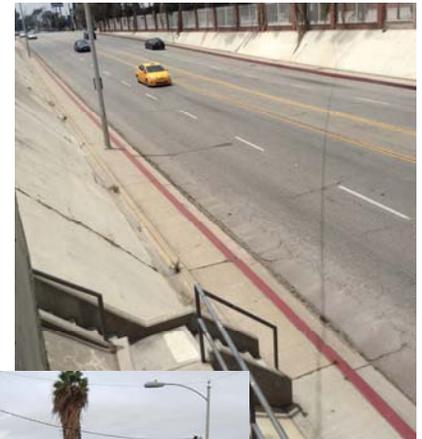
- Improvements to stormwater management, flood water conveyance, and flood risk mitigation
 - Mitigate damages to infrastructure and maintenance costs
- Long-term benefits for disadvantaged community
- Water quality enhancements from infiltration design
- City is pursuing all available sources of funding
- Local support from business owners, local residents, and the City of El Monte





Conclusion / Summary of Benefits

- Project proposes a new storm drain and infiltration system to alleviate flooding at this location
- Improvements will meet 50-year storm design standards
- Benefits to water quality and water supply
 - Reduction in pollutants discharged to Receiving Waters
 - Recharge water supply
- Reduces flood hazards and enhances community safety
- Immediate need to address the flooding at this location





MacLaren Hall Property Park and Sports Fields Project - concept

January 30, 2020, for the Watershed Area Steering Committee – Upper San Gabriel River

Project Applicant:
City of El Monte

Additional Project Collaborator:
County of Los Angeles

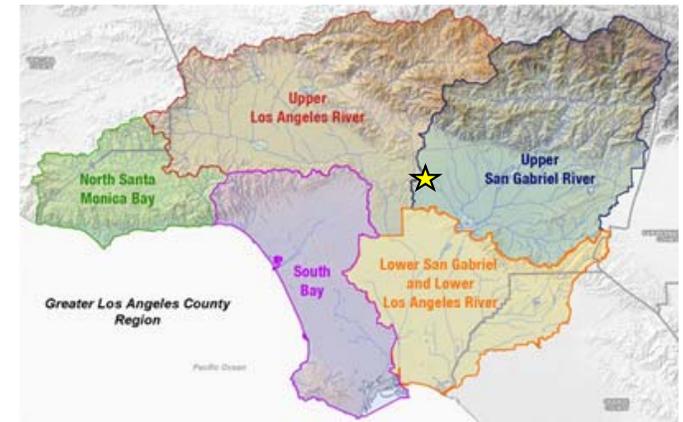
Presenter:
Ed Suher, CASC Engineering and Consulting

Total Funding Requested:
~ \$300,000.00 (in the form of Technical Resources Assistance)



Project Location

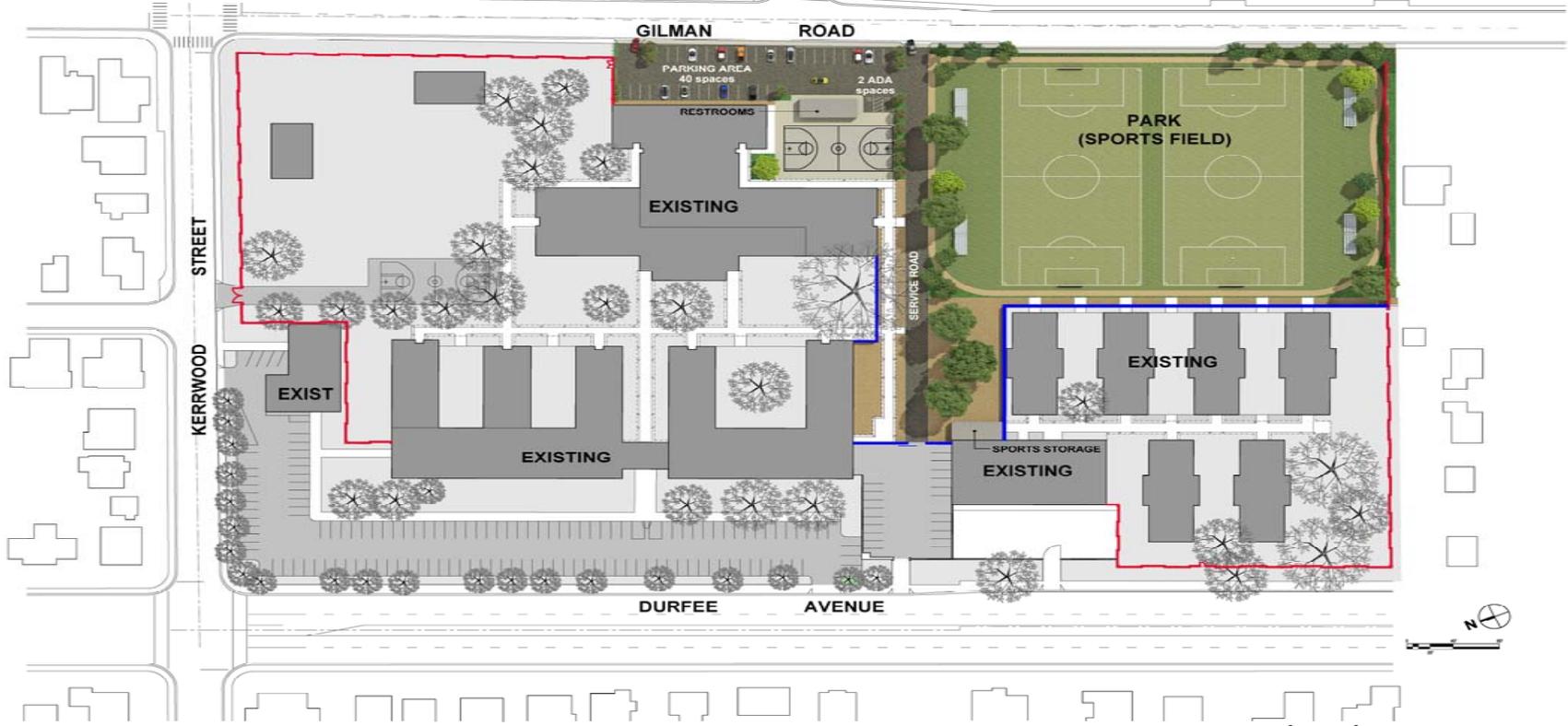
- MacLaren Hall is a former Los Angeles County child services facility
- Most of the property is currently vacant and not publicly accessible
- The City and County are working on a project to repurpose a portion of the property into a public park and sports fields complex including soccer fields, baseball/softball, and basketball courts
- Upper San Gabriel River Watershed Area, County-owned property in the City of El Monte
- Project will provide water quality improvements, water conservation, facility upgrades, and education and outreach signage



*** DRAFT ***



Project Concept



Legend:
— Existing Wall to Remain
— New Security Fence

MacLaren Hall

Proposed Park & Sports Fields - Concept



Disadvantaged Community Benefits

- Recharge water supply (Main San Gabriel River Basin)
- Project will serve a park-poor disadvantaged community
 - The City of El Monte has only 0.4 park acres per 1,000 residents (compared to the Countywide average of 3.3)
- Reduce heat island effect
- Enhance greenspace and recreational opportunities for local families and the community
- Infiltration galleries will gradually filter stormwater into the aquifer
 - Reduce pollutants that could be discharged to receiving waters
 - Flood risk mitigation
- Greening and beautification of area



Project Details



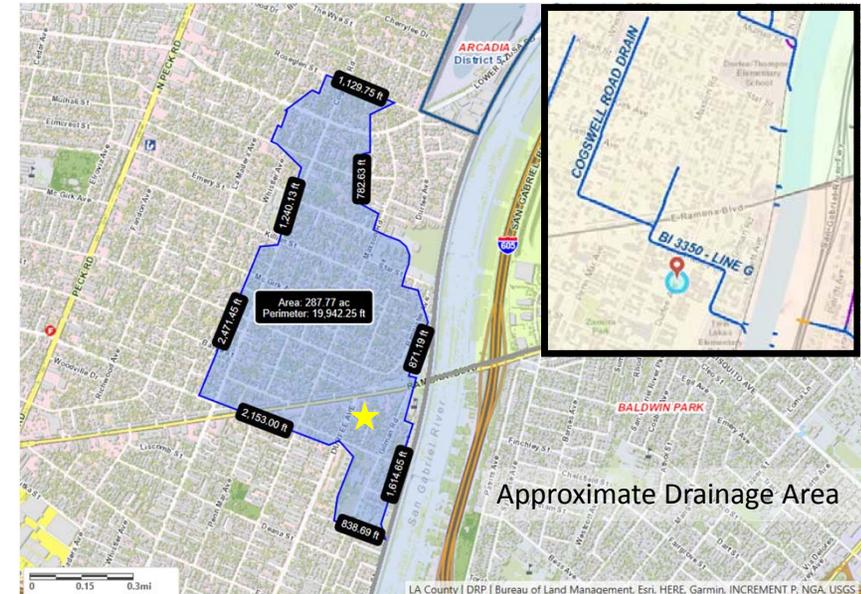
Key Milestones	Target Timelines
Feasibility, design, and technical studies by Technical Resources Team	Summer 2020
Additional community engagement and CEQA analysis	Ongoing through 2020
Application submitted for construction funding (SCW FY 22-23 Infrastructure Program)	Summer/Fall 2021
Construction funding awarded	Summer 2022



How Score Was Achieved

Water Quality and Supply Benefits

- Storm drain (gravity main) diversion to infiltration galleries under sports field
- Project will divert off-site stormwater runoff from catchment area into large infiltration galleries under soccer field
 - Infiltration Footprint: 1.6 acres
 - Ponding Depth: 9 feet
 - Storage Volume: 15.6 acre-feet
- Project is adjacent to BI 3350 – Line G off of the Cogswell Road Drain
 - Good location to infiltrate runoff captured in network
- Large 24-hr capacity (estimated 15.68 ac-ft) for the approximate drainage area of 280 acres
- 99% of estimated outflow from galleries treated by filtration results in pollutant reduction
- Similar to Franklin D. Roosevelt Park Regional Stormwater Capture Project (LACDPW Project)
 - Infiltration galleries underneath sports field
 - Diverts dry and wet-weather flows from a drainage system





How Score Was Achieved

Community Investment and Local Support

- Many community investment benefits such as flood risk mitigation, enhancing recreational opportunities, and creating or enhancing green-space
- Strong local support from the County of Los Angeles, City of El Monte, CicLAvia, Active SGV (community-health organization)
- Conducted community outreach meetings in English, Spanish, Chinese, and Vietnamese
- Support from local schools:
 - El Monte Union High School
 - Twin Lakes Elementary School
 - El Monte City High School
 - Mountain View High School

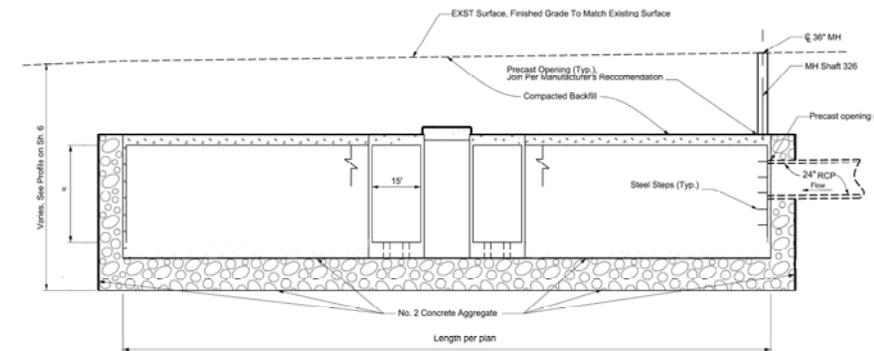
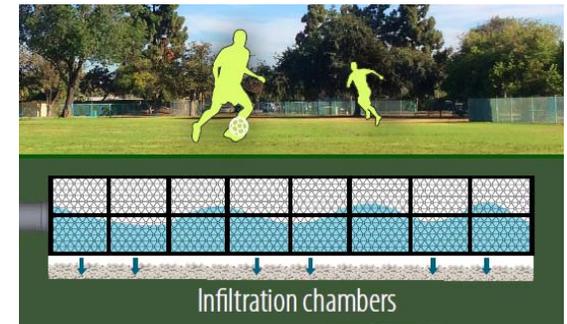




How Score Was Achieved

Nature Based Solutions and Funding

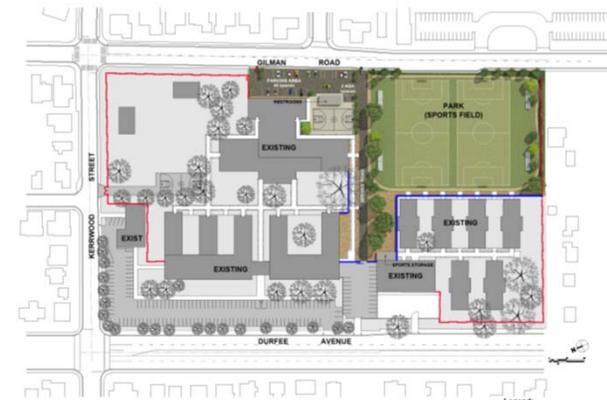
- Project will support the water cycle
- Infiltration draw-down rate and medium mimics natural processes to enhance usable green-space and open-space
- Project utilizes landscaping and turf above infiltration galleries on sports field
- City and County are evaluating all potential sources of funding and options





Conclusion

- Numerous benefits to a disadvantaged community
- Project has strong local and public support to be carried through to completion
- Great opportunity to enhance and create a public recreational space in a park-poor community
- Similar to other effective infiltration projects
- Excellent location for a water quality improvement project
- Water quality and supply benefits to the San Gabriel River Watershed



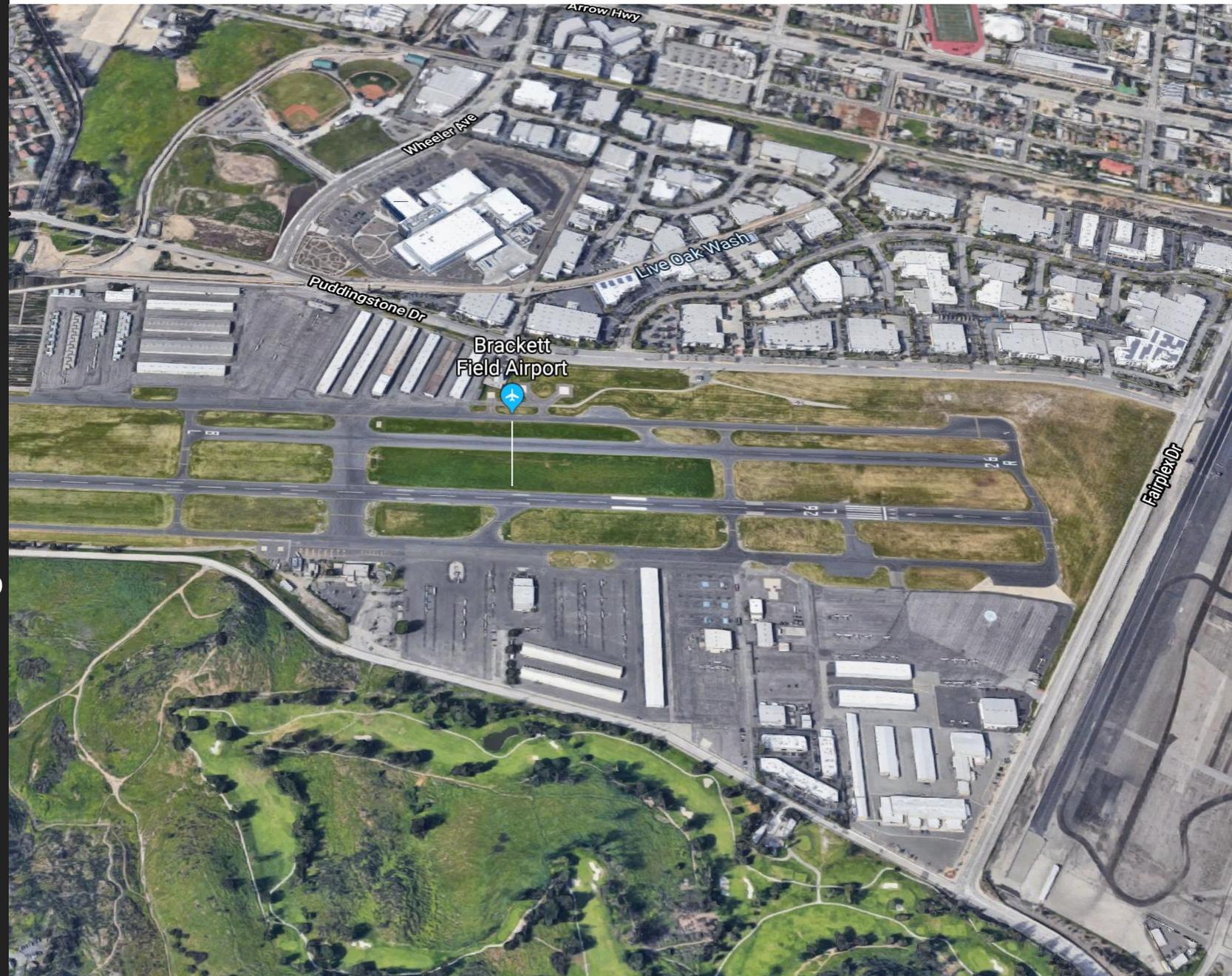
MacLaren Hall
Proposed Park & Sports Fields - Concept



Brackett Field Stormwater Infiltration Project (Technical Resources)

Ed Othmer PE, CPESC, CPSWQ,
QSP/D ToR, QISPToR, ENV SP, PMP,
& Alexis Holmdal PE, PMP, ENV SP
(Stantec), representing the East
San Gabriel Valley Watershed
Management Group in partnership
with Six Basins Watermaster

Upper San Gabriel River
Watershed Area Steering
Committee (WASC)
January 30, 2020



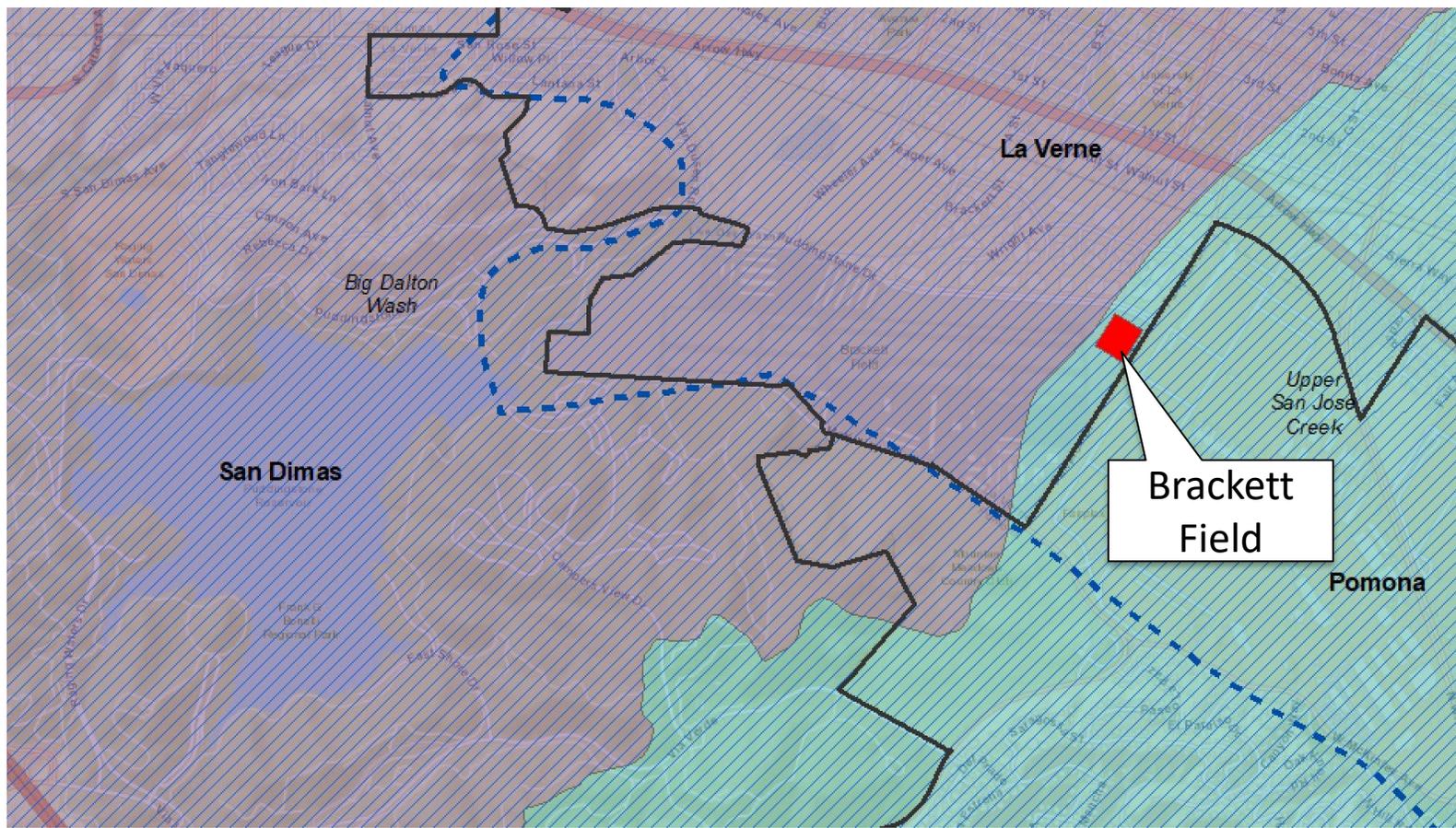
Agenda

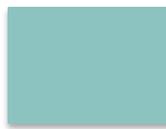
- Project Location
- Project Details
- Summary of Benefits

Purpose

- Collaboration and partnership with LA County is **essential** to achieving MS4 permit compliance
- Prospective stormwater capture sites identified on LA County properties would help **meet Nutrient TMDLs** at Puddingstone Reservoir
- Recharge of recycled water will **augment groundwater supply**
- LA County-owned sites have been identified as prospective stormwater capture sites, providing **multiple benefits** to all parties

Watershed



-  East San Gabriel River Watershed
-  Upper San Jose Creek
-  Six Basins
-  City

Site Location



Brackett Field

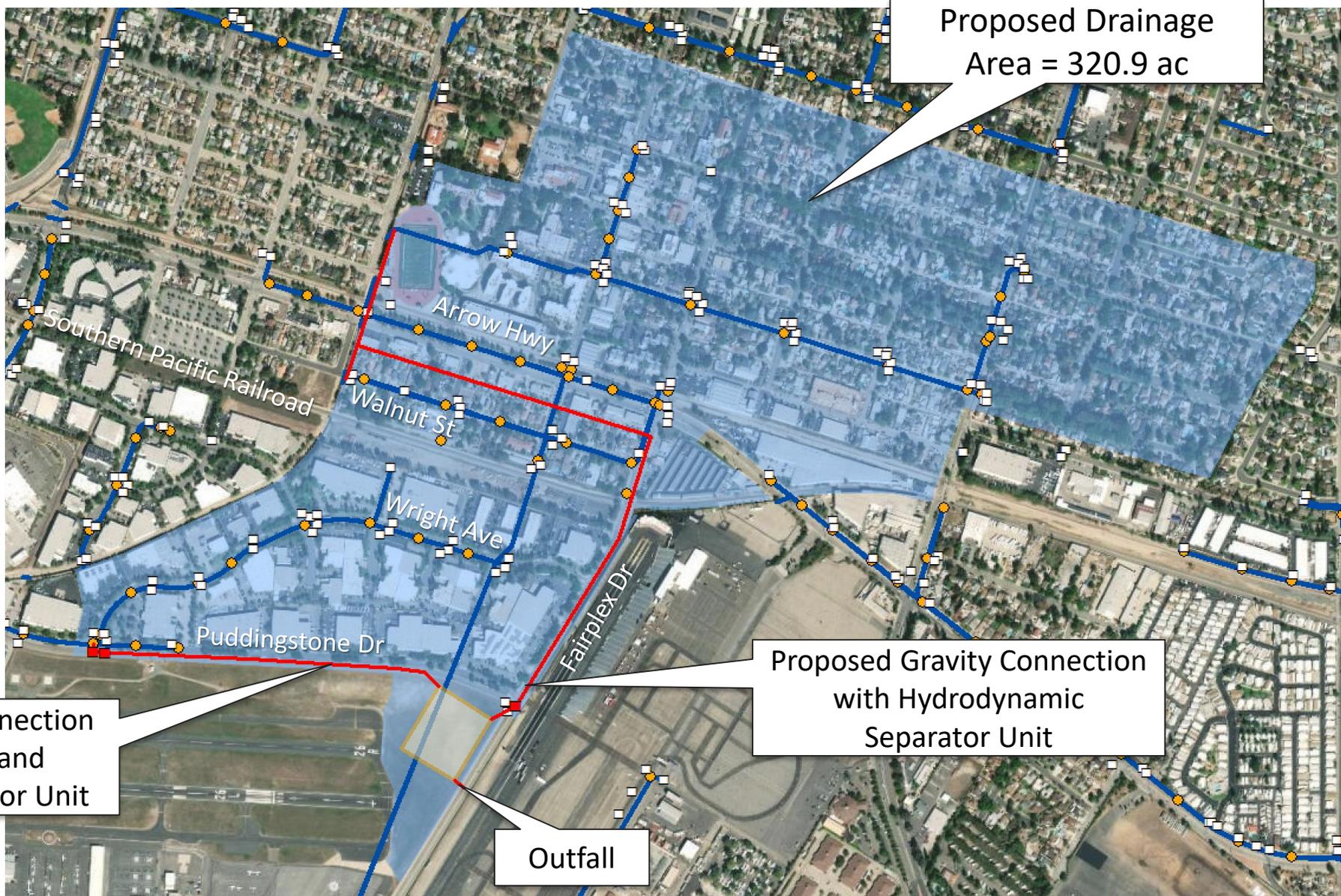
Municipal Benefits

- Improved water quality – comply with MS4 permit
- Ground water recharge
- Water supply reliability
- Emulation of hydrologic processes
- Flood risk management
- Educational benefits – tours of facility
- Collaboration with key stakeholders: Cities of San Dimas, Claremont, Pomona, La Verne, and Upland, Golden State Water Company, San Antonio Water Company, Three Valleys Municipal Water District, Pomona College, Pomona Valley Protective Association (PVPA), Industrial Environment Association (IEA), LA County, and LA County DPW's Aviation Division

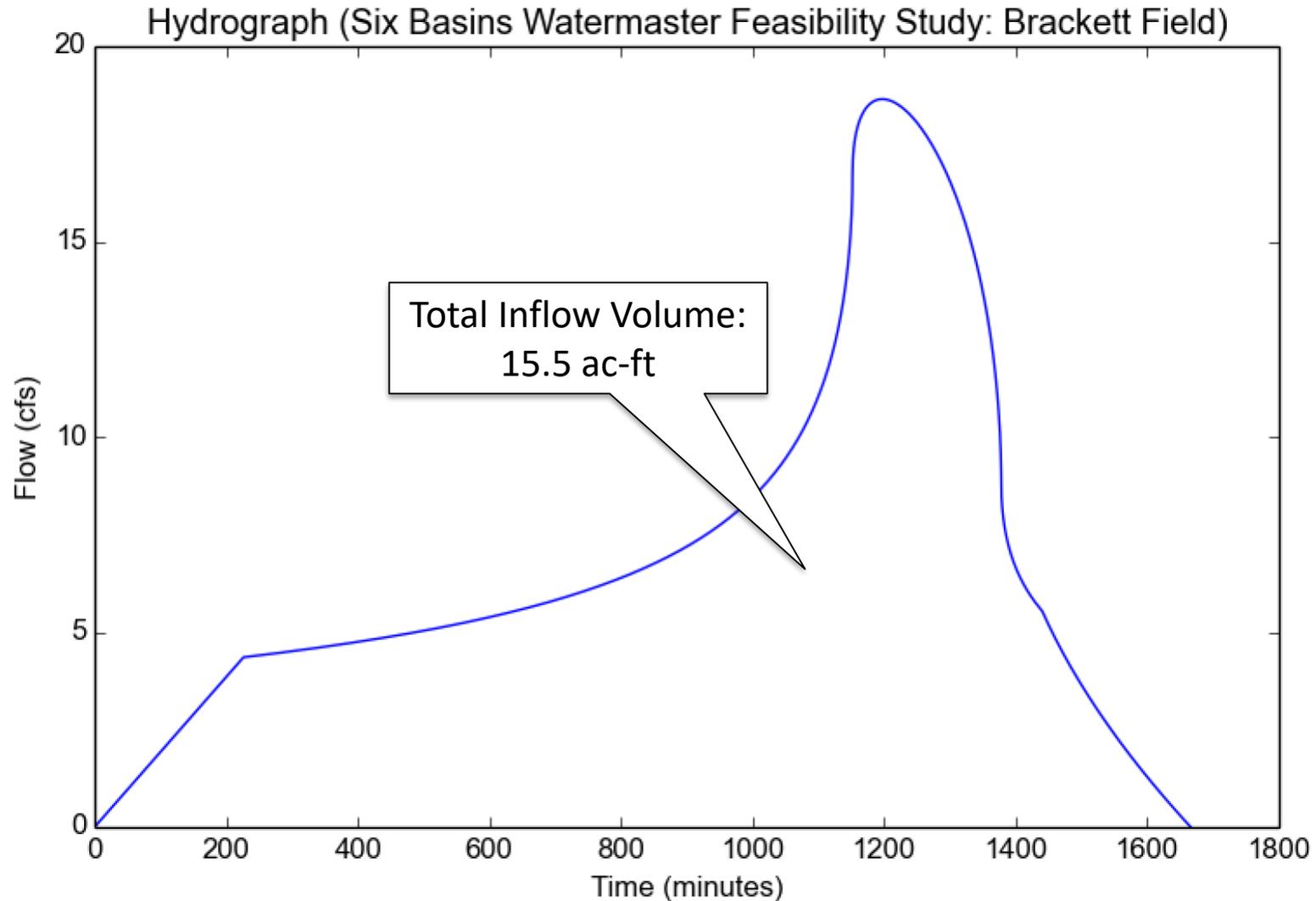
Benefits to Disadvantaged Communities

- Directly adjacent to disadvantaged community census blocks
- Increased local water supply reliability
- Reduced risk of regulatory burden on general funds and resulting reduction of municipal and county services
- Provide educational benefits within Six Basins (e.g., facility tours)

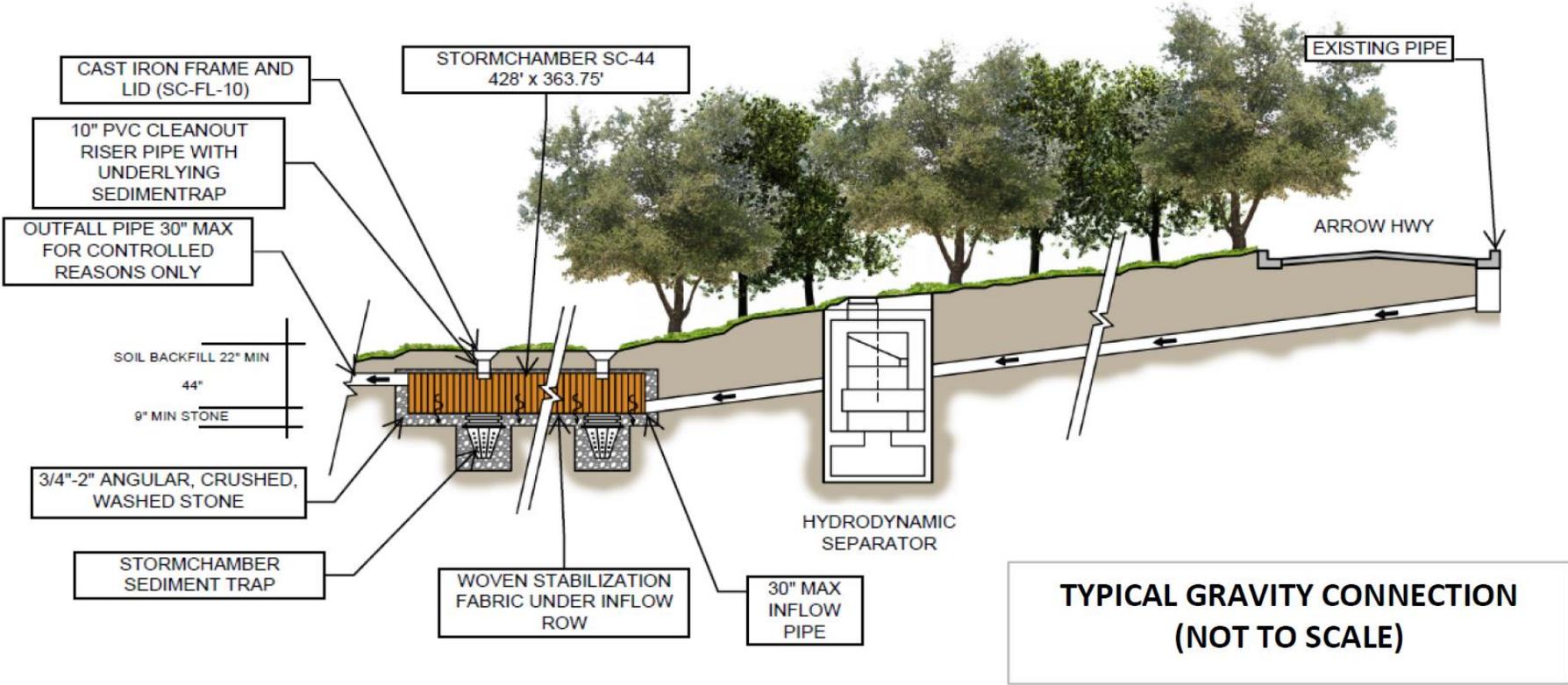
Proposed Drainage Area



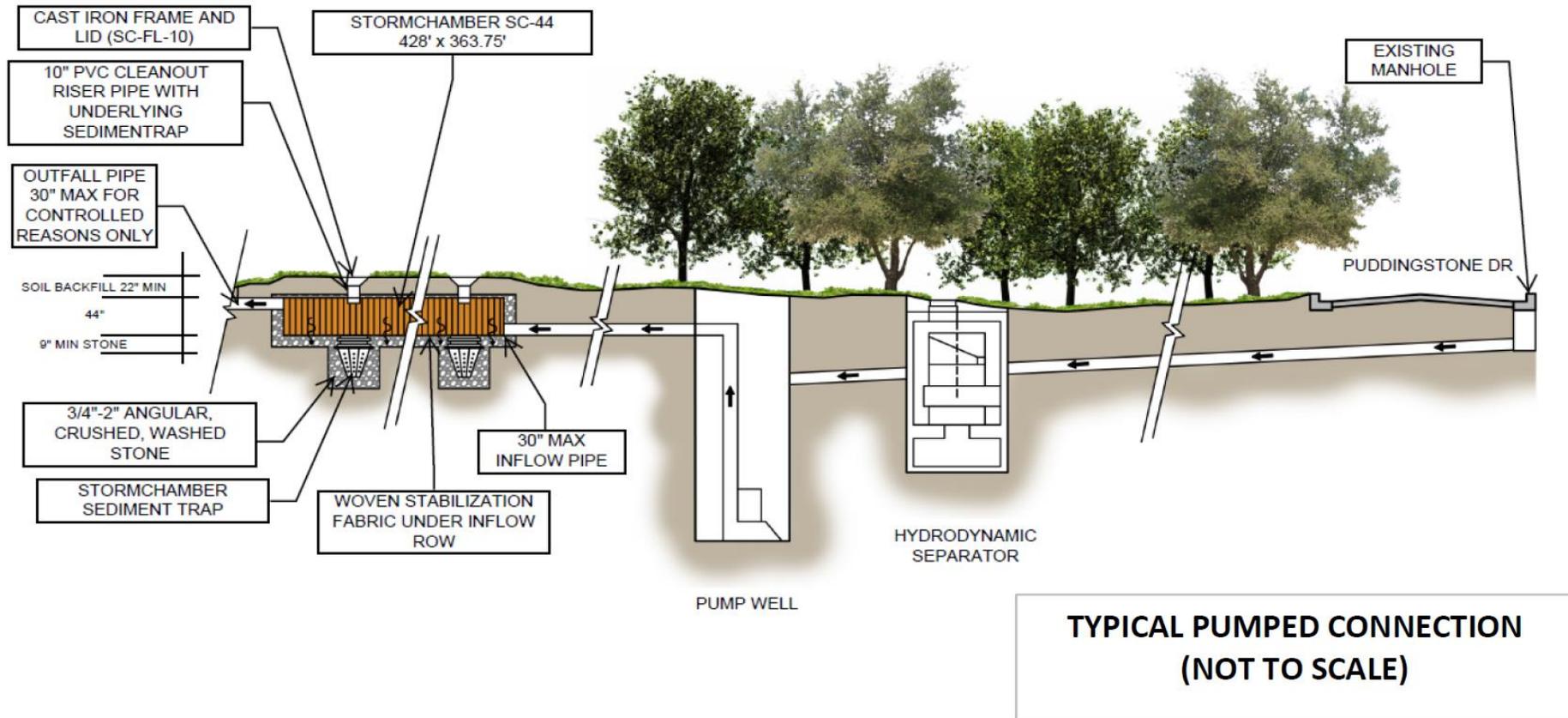
85th Percentile, 24-Hour Storm Hydrograph



Conceptual Profile: Gravity



Conceptual Profile: Pumped



Project Schedule & Expenditure Projections

Project Phase	General Timeframe	TRP Budget Allocation
Feasibility Study	June 2020 – June 2021	\$300,000

Project Phase	General Timeframe
Design	May 2024 – May 2025
Permitting	June 2025 – December 2025
Construction	January 2026 – January 2028

Fiscal Year	Description of Expenditure	Needed Funds
July 2023 – June 2024	Preparation of Grant Applications, Design and Planning	\$356,100
July 2024 – June 2025	Design and Planning, Obtaining Permits	\$1,424,400
July 2026 – Onwards	Obtaining Permits, Construction	\$17,805,000
Total Projected Funding Need:		\$19,585,500

Water Quality & Water Supply

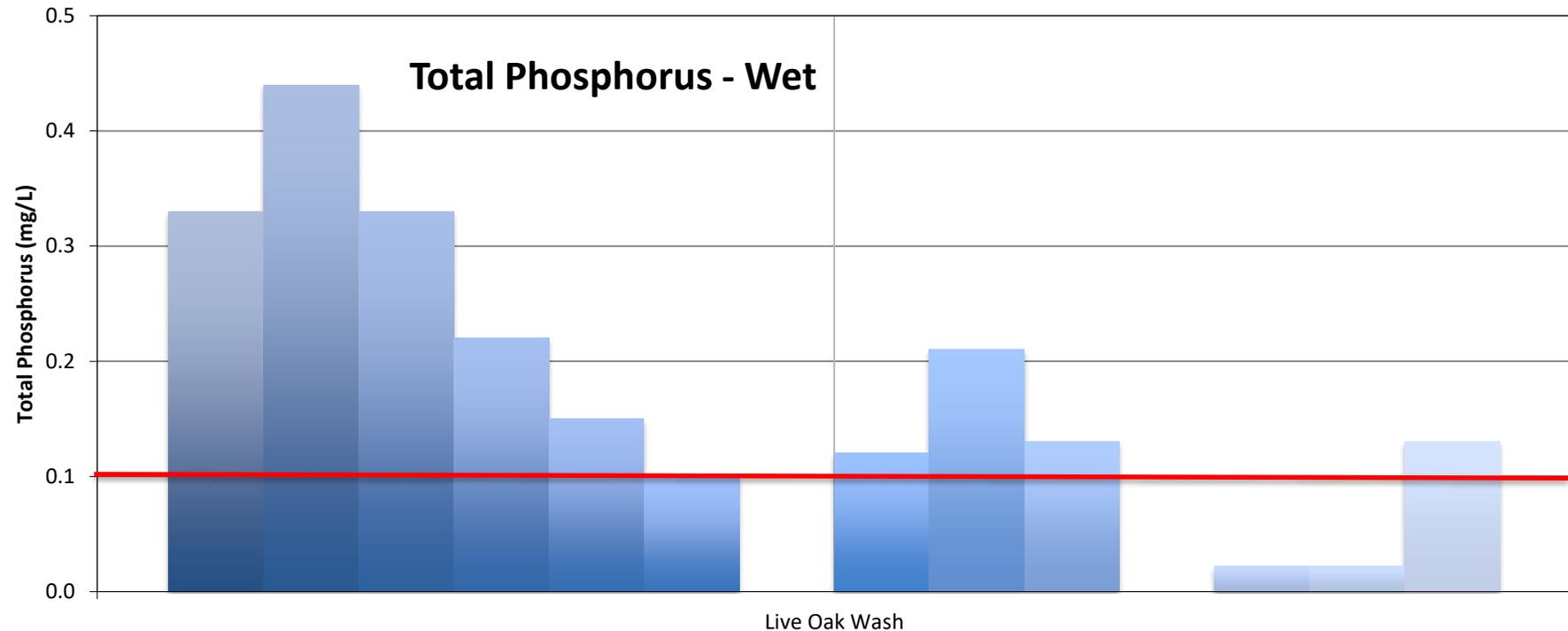


24-hour BMP Capacity: 15.5 ac-ft
(sized per the 85th percentile, 24-hour storm event)



Annual Average Capture: 180.25 ac-ft
(based on 15.5 ac-ft inflow volume from the 85th percentile, 24-hour storm event)

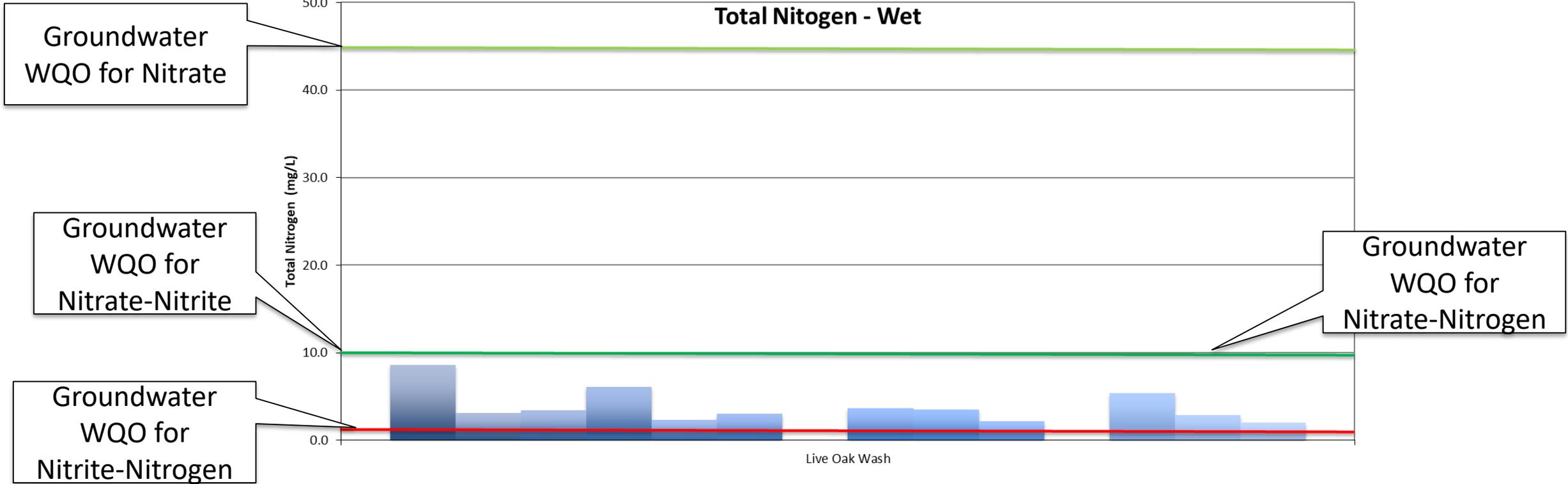
CIMP Wet Weather Results: Nutrients



Compliance based on annual load to Puddingstone.
Objective shown is the required average concentration
to meet load limitations.

TMDL Limitation	2018/19 Loads through Feb
TP 2,978 lbs	TP 510 lbs

CIMP Wet Weather Results: Nutrients



Compliance based on annual load to Puddingstone. Objective shown is the required average concentration to meet load limitations.

TMDL Limitation	2018/19 Loads through Feb
TN 12,760 lbs	TN 28,884 lbs

Pollutant Removal

- Total Phosphorus: 260.5 lbs (97.6%)
- Total Nitrogen: 2068.0 lbs (98.1%)
- Total Zinc: 117.2 lbs (99.7%)
- Total Copper: 28.4 lbs (99.4%)
- Total Lead: 18.6 lbs (99.5%)



Community Investment Benefits

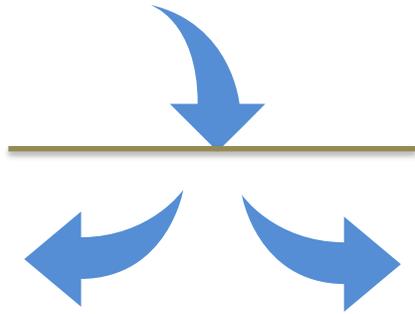


Stormwater diversion from the drainage system mitigates flood risk to surrounding neighborhood and airport



Decreases impact of non-point source pollutants, thereby enhancing habitats

Nature-Based Solutions



Promotes infiltration of stormwater through natural soils, thereby increasing the yield of groundwater aquifers and decreasing the impact of non-point source pollutants.

Community Support



Ms. Julie Carver
Environmental Programs Supervisor
148 N. Huntington St.
Pomona, CA 91768

Subject: Support for East San Gabriel Stormwater Projects

Dear Ms. Carver,

I am contacting you on behalf of the Industrial Environmental Association (IEA) to voice our support for the East San Gabriel Valley Watershed Management Group's (Group) regional stormwater projects. Toward that end, IEA fully supports the Group's application for Safe Clean Water Program funding because we believe that the projects will improve water quality and water supply in the watershed.

The Industrial Environmental Association is an NGO founded in 1983 that represents manufacturing related companies in the southern California region. Reliable water quality and water supply is essential to our members to support manufacturing processes. And while our member companies have worked diligently to reduce their own process water consumption, the Group's efforts are essential to help insure there is ample water for future residents and businesses in the area.

Thank you for this opportunity for IEA to support the Group's efforts and its application for funding.

Best regards,

A handwritten signature in black ink that reads 'Jack Monger'. The signature is written in a cursive style.

Jack Monger

Q and A

Ed Othmer, PE CPESC, CPSWQ, QSP/D ToR, QISP ToR, ENV SP, PMP
North America Wet Weather Sector Leader

Tel: +1 858 751 1219

Cell: +1 619 279 3682

Ed.Othmer@stantec.com

Alexis Holmdal, PE, PMP, ENV SP
Civil Engineer

Tel: +1 617 314 7117

Alexis.Holmdal@stantec.com

Fairplex Regional Stormwater Project

(Technical Resources)

Ed Othmer PE, CPESC, CPSWQ,
QSP/D ToR, QISPToR, ENV SP, PMP,
& Alexis Holmdal PE, PMP, ENV SP
(Stantec), representing the East
San Gabriel Valley Watershed
Management Group in partnership
with Six Basins Watermaster

Upper San Gabriel River
Watershed Area Steering
Committee (WASC)
January 30, 2020



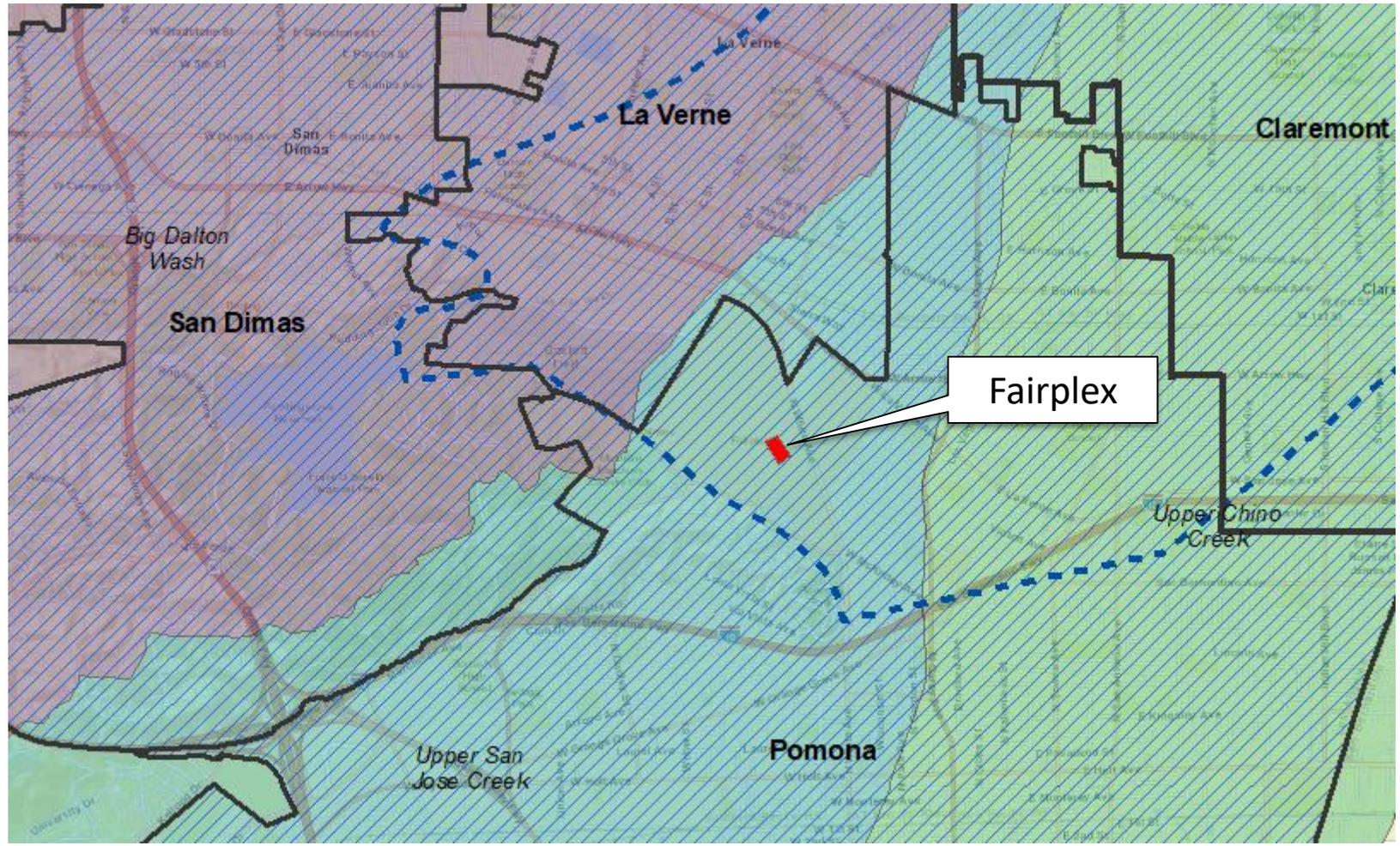
Agenda

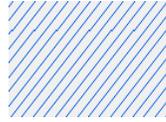
- Project Location
- Project Details
- Summary of Benefits

Purpose

- Collaboration and partnership with LA County is **essential** to achieving MS4 permit compliance
- Prospective stormwater capture sites identified on LA County properties would help **meet Nutrient TMDLs** at Puddingstone Reservoir
- Recharge of recycled water will **augment groundwater supply**
- LA County-owned sites have been identified as prospective stormwater capture sites, providing **multiple benefits** to all parties

Watershed



-  East San Gabriel River Watershed
-  Upper San Jose Creek
-  Six Basins
-  City

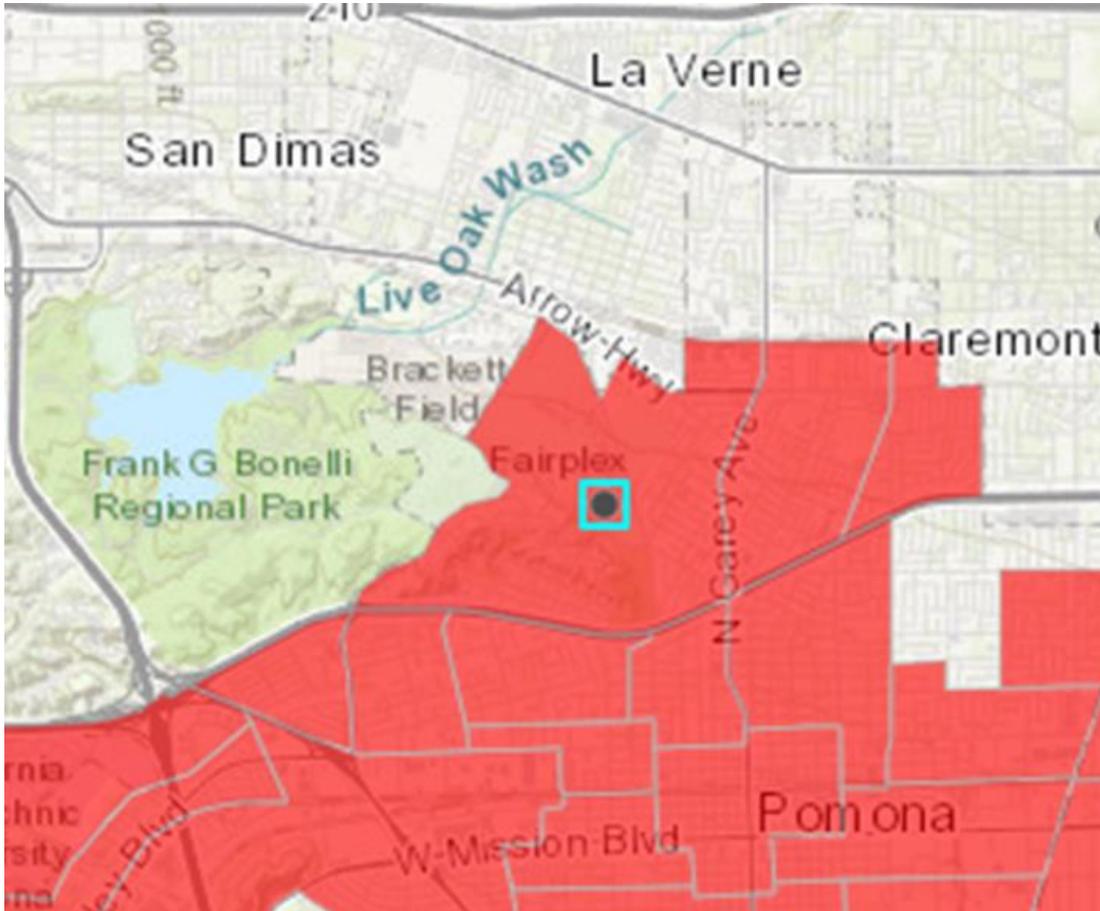
Site Location



Municipal Benefits

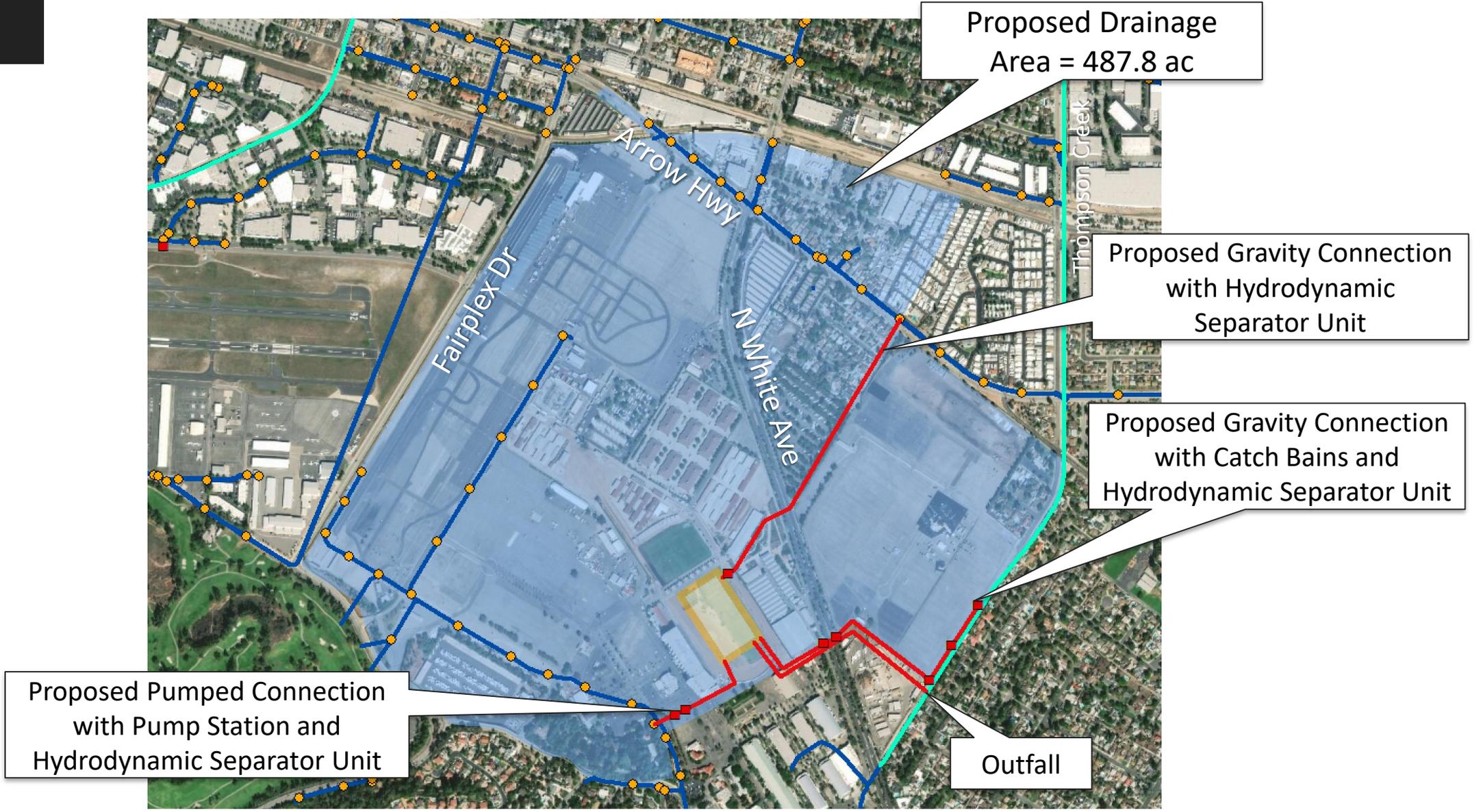
- Improved water quality – comply with MS4 permit
- Ground water recharge
- Water supply reliability
- Emulation of hydrologic processes
- Flood risk management
- Educational benefits
- Collaboration with key stakeholders: Collaboration with key stakeholders: Cities of San Dimas, Claremont, Pomona, La Verne, and Upland, Golden State Water Company, San Antonio Water Company, Three Valleys Municipal Water District, Pomona College, Pomona Valley Protective Association (PVPA), Industrial Environment Association (IEA), LA County, and LA County Fair Association

Benefits to Disadvantaged Communities



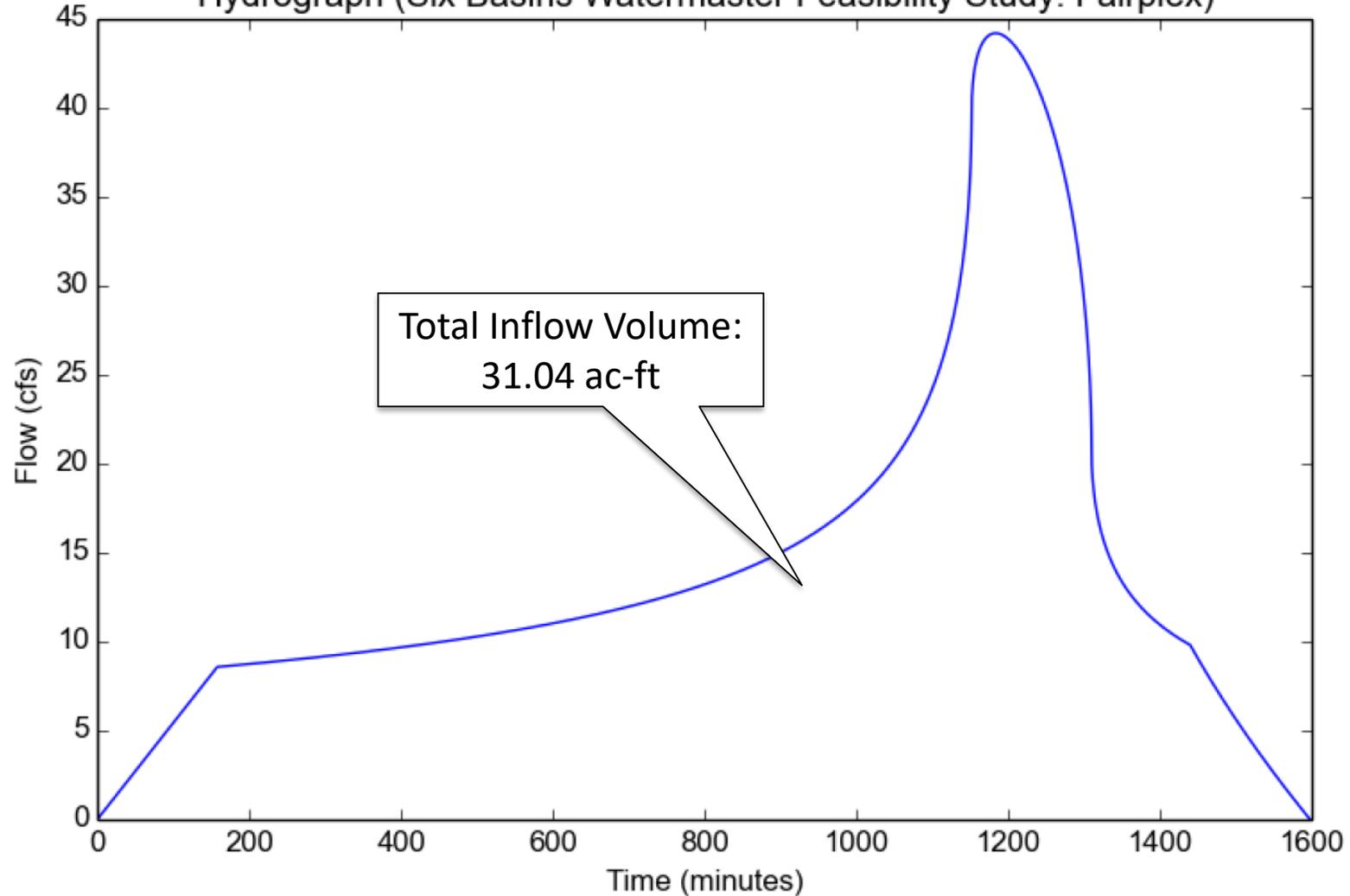
- Increased local water supply reliability
- Reduced risk of regulatory burden on general funds and resulting reduction of municipal and county services
- Provide opportunities for education
- No displacement due to location

Proposed Drainage Area

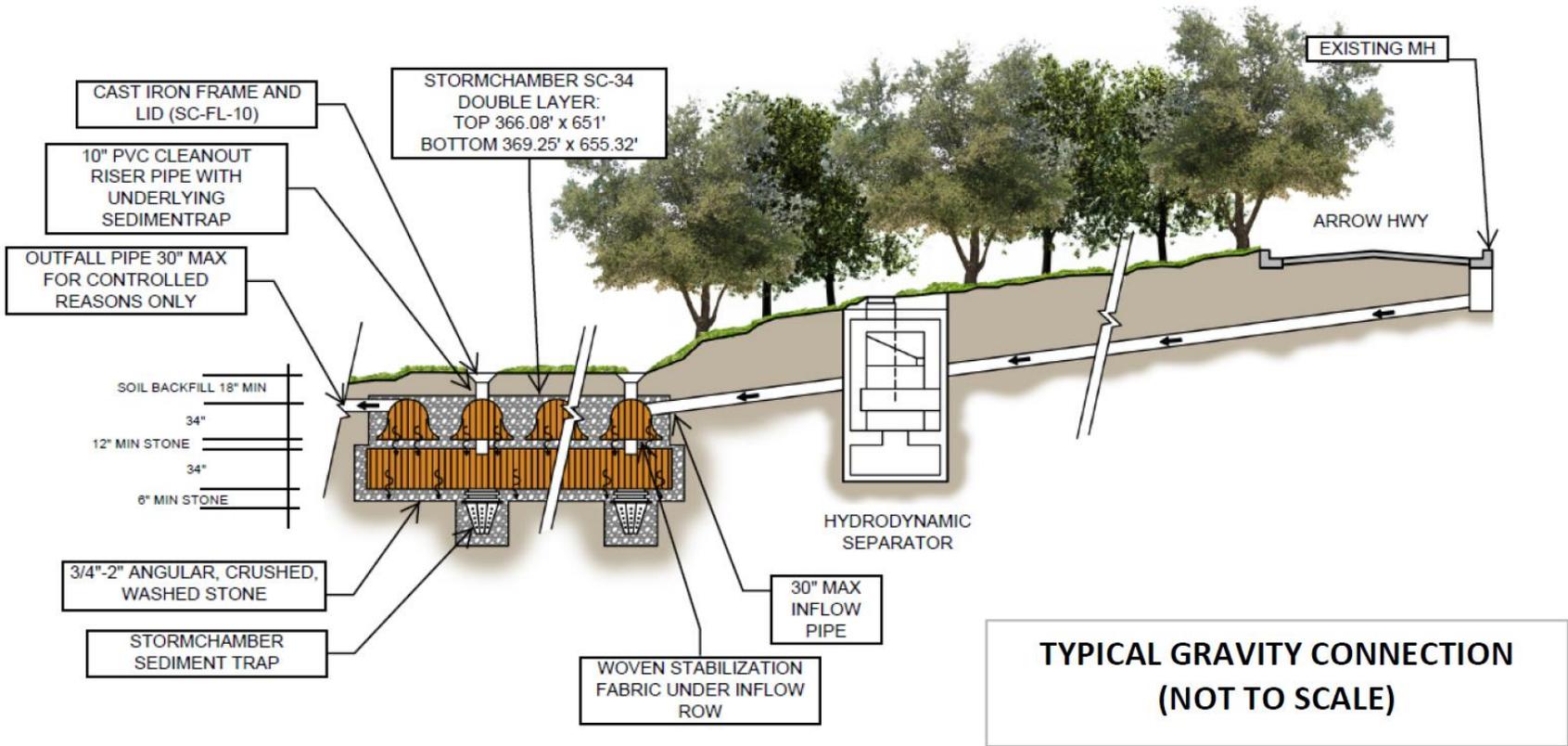


85th Percentile, 24-Hour Storm Hydrograph

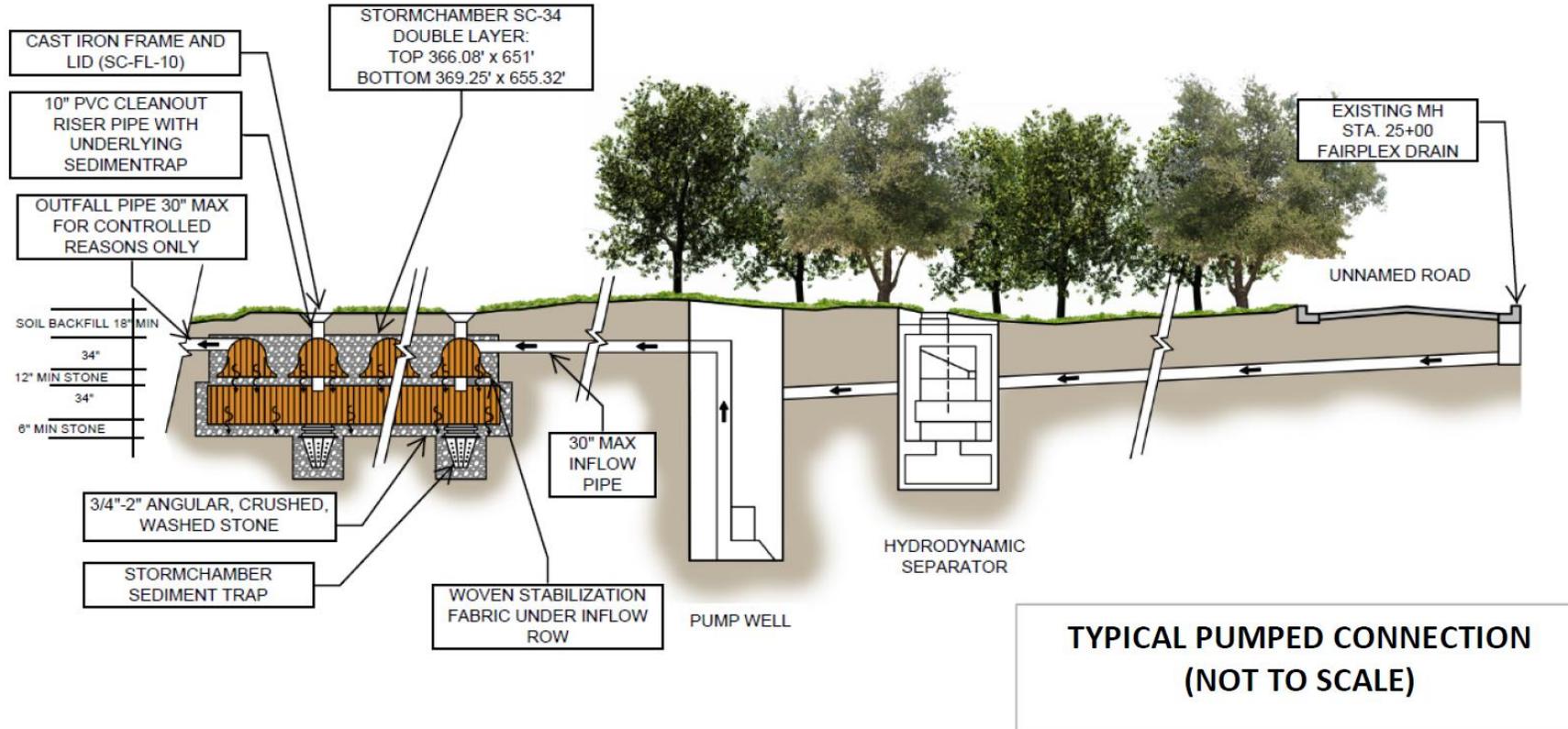
Hydrograph (Six Basins Watermaster Feasibility Study: Fairplex)



Conceptual Profile: Gravity



Conceptual Profile: Pumped



Project Schedule & Expenditure Projections

Project Phase	General Timeframe	TRP Budget Allocation
Feasibility Study	June 2020 – June 2021	\$300,000

Project Phase	General Timeframe
Design	July 2021 – May 2022
Permitting	June 2022 – December 2022
Construction	December 2022 – January 2025

Fiscal Year	Description of Expenditure	Needed Funds
July 2020 – June 2021	Preparation of Grant Applications	\$573,220
July 2021 – June 2022	Design and Planning, Obtaining Permits	\$2,292,880
July 2022 – June 2023	Obtaining Permits, Construction	\$10,882,690
July 2023 – June 2024	Construction	\$17,493,730
July 2024 – June 2025	Construction, Inspection	\$284,580
Total Projected Funding Need:		\$31,527,100

Water Quality & Water Supply

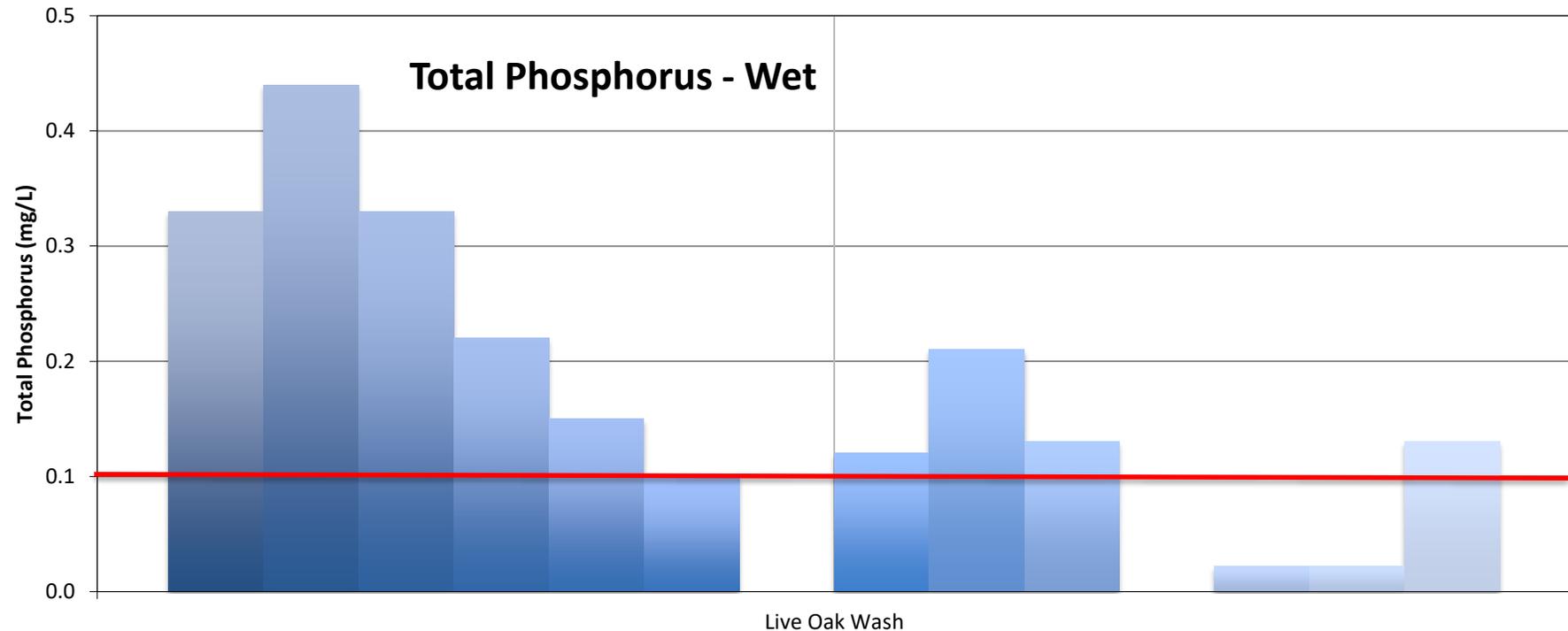


24-hour BMP Capacity: 31.04 ac-ft
(sized per the 85th percentile, 24-hour storm event)



Annual Average Capture: 335.5 ac-ft
(based on 31.04 ac-ft inflow volume from the 85th percentile, 24-hour storm event)

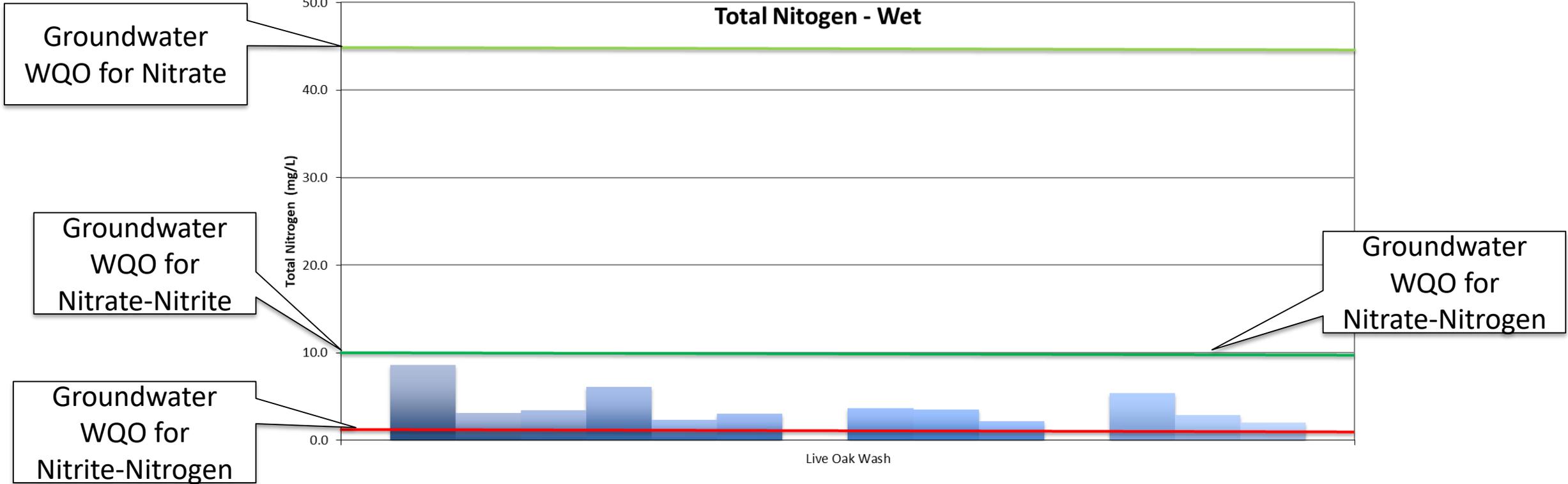
CIMP Wet Weather Results: Nutrients



Compliance based on annual load to Puddingstone.
Objective shown is the required average concentration
to meet load limitations.

TMDL Limitation	2018/19 Loads through Feb
TP 2,978 lbs	TP 510 lbs

CIMP Wet Weather Results: Nutrients



Compliance based on annual load to Puddingstone. Objective shown is the required average concentration to meet load limitations.

TMDL Limitation	2018/19 Loads through Feb
TN 12,760 lbs	TN 28,884 lbs

Pollutant Removal

- Total Phosphorus: 801.8 lbs (92%)
- Total Nitrogen: 5735.9 lbs (93%)
- Total Zinc: 373.9 lbs (98%)
- Total Copper: 90.7 lbs (98%)
- Total Lead: 72.4 lbs (98%)



Community Investment Benefits



Stormwater diversion from the drainage system mitigates flood risk to surrounding neighborhood and fairground

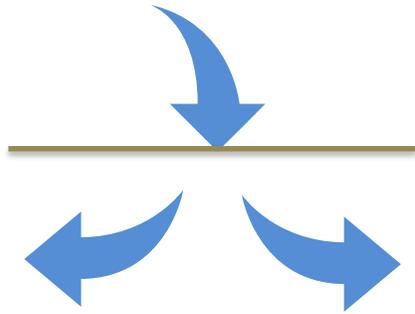


Decreases impact of non-point source pollutants, thereby enhancing habitats



Enhances recreational opportunities

Nature-Based Solutions



Promotes infiltration of stormwater through natural soils, thereby increasing the yield of groundwater aquifers and decreasing the impact of non-point source pollutants.

Community Support



Ms. Julie Carver
Environmental Programs Supervisor
148 N. Huntington St.
Pomona, CA 91768

Subject: Support for East San Gabriel Stormwater Projects

Dear Ms. Carver,

I am contacting you on behalf of the Industrial Environmental Association (IEA) to voice our support for the East San Gabriel Valley Watershed Management Group's (Group) regional stormwater projects. Toward that end, IEA fully supports the Group's application for Safe Clean Water Program funding because we believe that the projects will improve water quality and water supply in the watershed.

The Industrial Environmental Association is an NGO founded in 1983 that represents manufacturing related companies in the southern California region. Reliable water quality and water supply is essential to our members to support manufacturing processes. And while our member companies have worked diligently to reduce their own process water consumption, the Group's efforts are essential to help insure there is ample water for future residents and businesses in the area.

Thank you for this opportunity for IEA to support the Group's efforts and its application for funding.

Best regards,

A handwritten signature in black ink that reads 'Jack Monger'. The signature is written in a cursive style.

Jack Monger

Q and A

Ed Othmer, PE CPESC, CPSWQ, QSP/D ToR, QISP ToR, ENV SP, PMP
North America Wet Weather Sector Leader

Tel: +1 858 751 1219

Cell: +1 619 279 3682

Ed.Othmer@stantec.com

Alexis Holmdal, PE, PMP, ENV SP
Civil Engineer

Tel: +1 617 314 7117

Alexis.Holmdal@stantec.com