

# Inland Empire Utilities Agency

## San Sevaine Basin Update

March 17, 2015



*Inland Empire Utilities Agency*

**A MUNICIPAL WATER DISTRICT**

# San Sevaine Basin



# Midge Fly Remediation & Operations

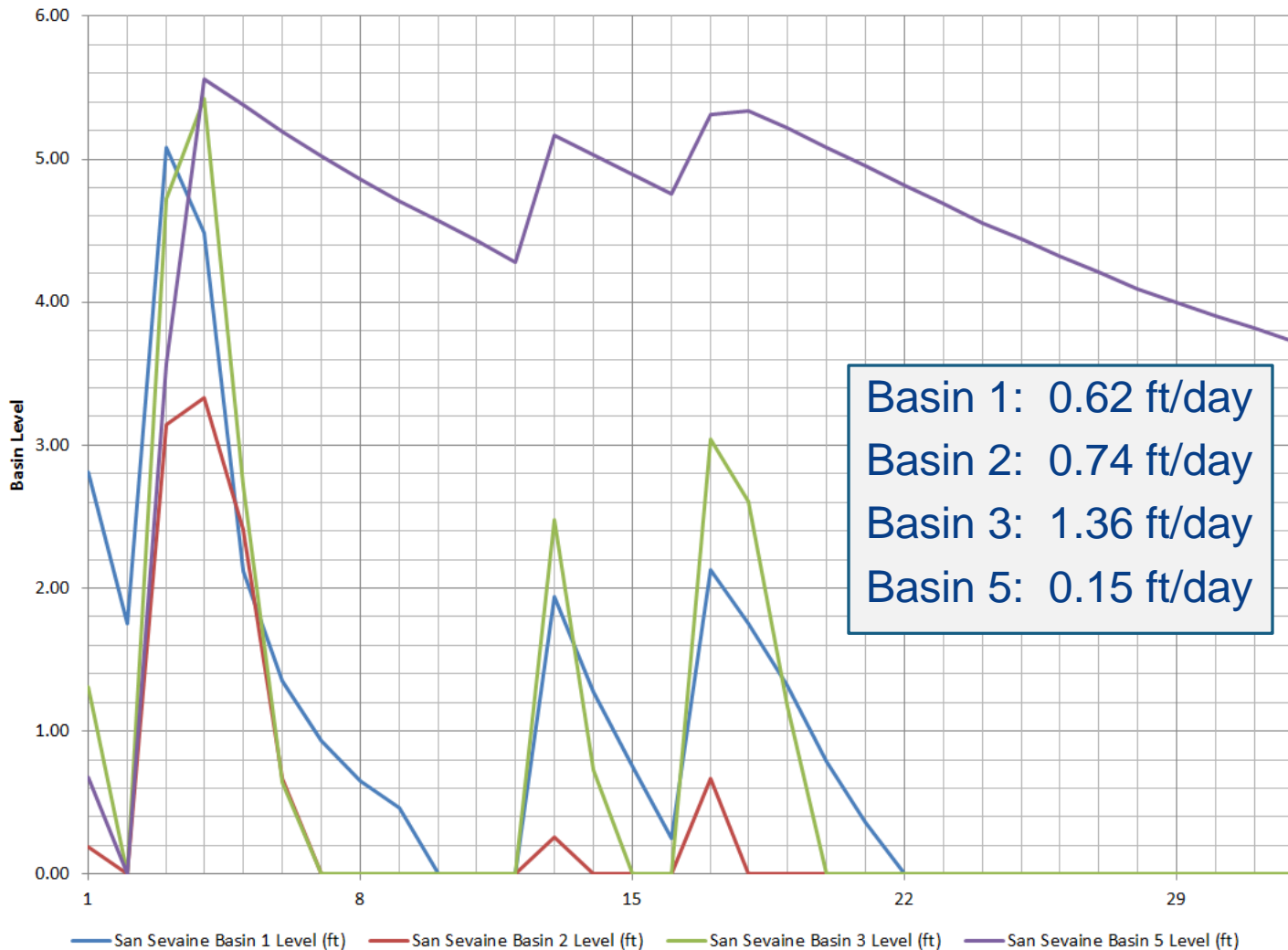
- Dec. 2-3, 2014: Heavy Rain Retained in Basin
- Dec. 12, 2014: Heavy Rain Retained in Basin
- Dec. 17, 2014: Rain Retained in Basin
- Jan. 11, 2015: Rain Retained in Basin
- Jan. 20, 2015: Basin Drained to RP-3
- Jan. 26, 2015: Rain Retained in Basin
- Feb. 4, 2015: Basin Drained to RP-3
- Feb. 22, 2015: Rain Retained in Basin
- Mar. 3-8, 2015: Basin Drained to RP-3



# Solutions

- **Immediate Remedy**
  - Recycled water delivery is suspended until short-term solution(s) can be assessed.
  - Storm water is held briefly and then released to downstream basin(s).
  - Water-vehicle with sprayer is in operation.
- **Short-Term: Provide Increased Access for Vector Control Treatment**
  - Modify spill structure for vehicle access (completed).
- **Long-Term: Provide Operational Flexibility**
  - San Sevaine Improvements Project
  - Build a lateral berm to keep water deeper.
  - Build a longitudinal berm to allow central access for spraying.
  - Build lateral and longitudinal berms to allow cycling of operations and drying non-operating cells.

# San Sevaine Basin Infiltration Rates December 2014



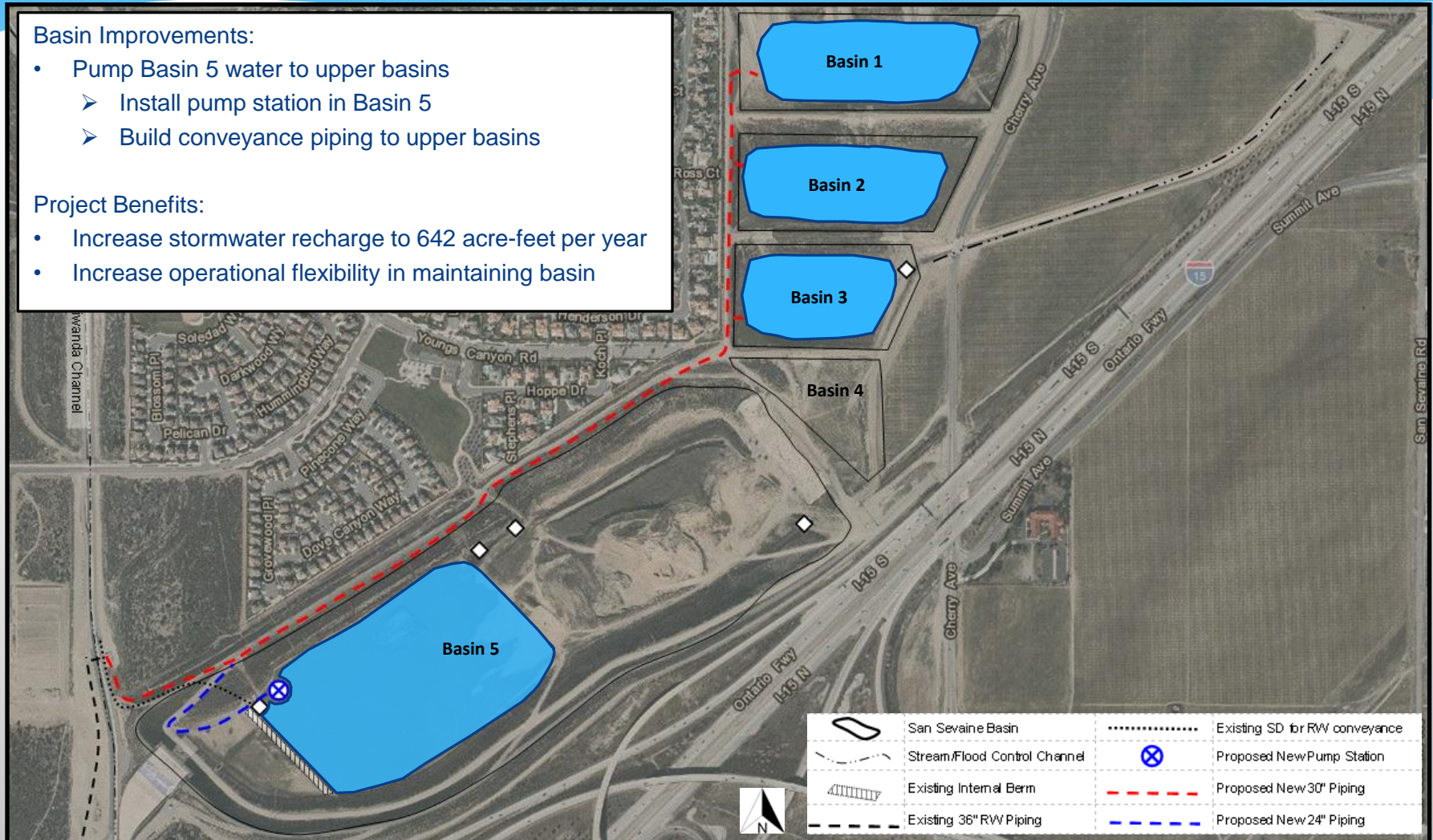
# San Sevaine Basin Improvements Project

## Basin Improvements:

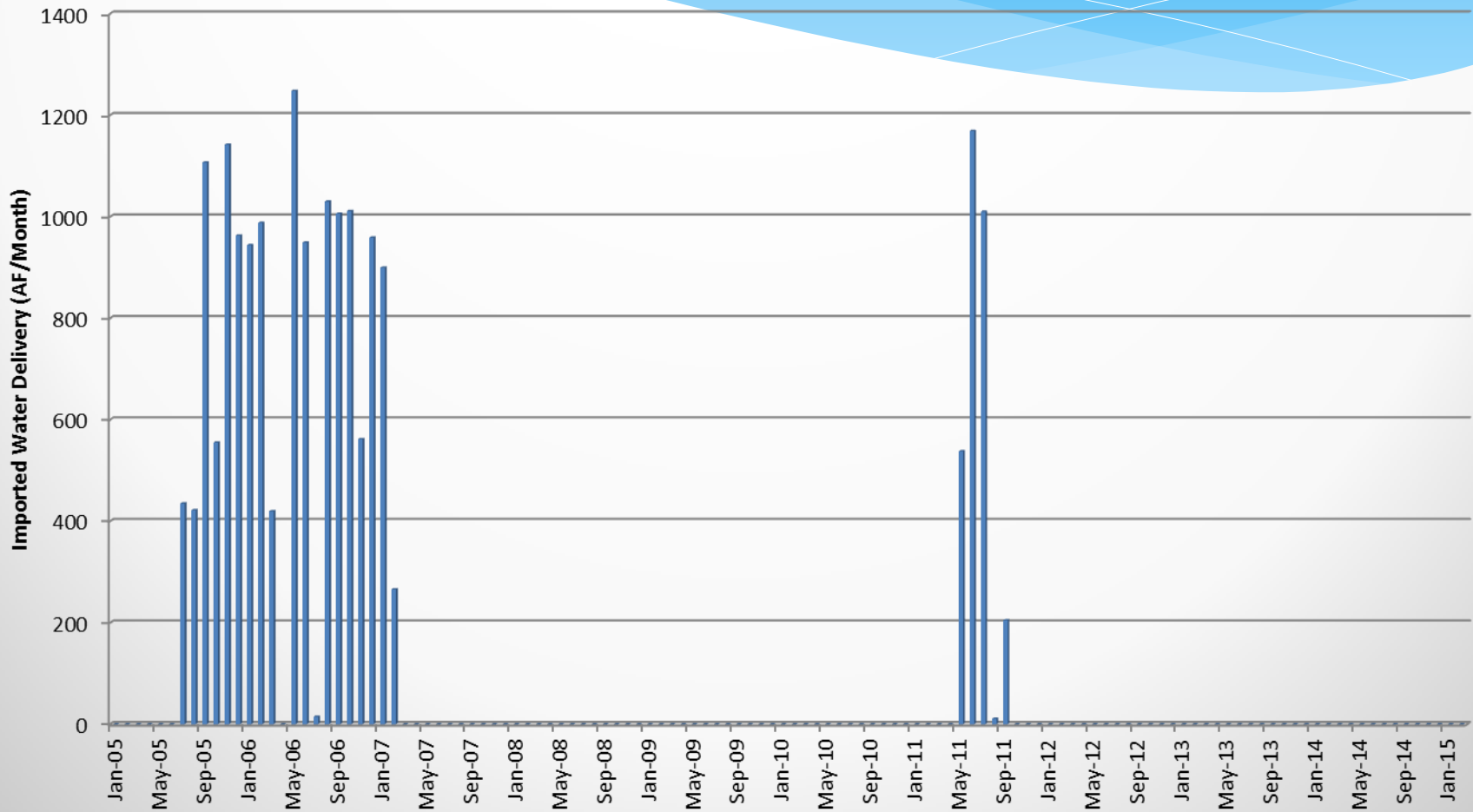
- Pump Basin 5 water to upper basins
  - Install pump station in Basin 5
  - Build conveyance piping to upper basins

## Project Benefits:

- Increase stormwater recharge to 642 acre-feet per year
- Increase operational flexibility in maintaining basin



# San Sevaine Basins 1-3 Demonstrated Capacity



# Midge Fly Control Testing Hickory Basin

- SolarBee mixer to be placed into Hickory Basin.
- Mixer will impart dissolved oxygen to maintain fresh water quality.
- Goal is to eliminate environment for larva growth.
- Begin testing May 2015.





# Midge Fly Control Testing Hickory Basin



**Spray Systems**

- Covering standing bodies of water with spray or mist prevents midge fly from laying eggs.
- Operational success at MWD facilities.
- Water cannon tested at Turner Basin 1 September – December 2014.
- Reviewing expanded test at Hickory Basin.

# Aquatic All-terrain Vehicle



# Next Steps

- Recycled water delivery will continue to be suspended.
- Stormwater may be held in Basin 5 temporarily but will be released to downstream basins.
- All-terrain vehicle will continue to be utilized to support operations.
- Mixer Testing at Hickory Basin: May 2015
- Review applicability of spray system testing at Hickory Basin: June 2015
- San Sevaine Improvements Project Construction: Summer 2016



# Communication

## www.ieua.org

- Midge Fly updates and information can be found on the Inland Empire Utilities Agency's website under News/Public Notice.

The screenshot displays the homepage of the Inland Empire Utilities Agency (IEUA). The header includes the agency logo, the tagline "WATER SMART - THINKING IN TERMS OF TOMORROW", a "CONTACT US" button, and social media icons for Facebook, Twitter, LinkedIn, and YouTube. A search bar is located in the top right. The main navigation menu includes links for Home, About Us, Governance, Facilities, Water Sources, Use Water Wisely, News, and Education. A yellow banner below the navigation menu reads "Public Notice".

On the left side, there is a "News" menu with the following items: Press Release, Public Notice (highlighted with a blue bar and an arrow pointing to it), and Newsletter Sign Up. Below this menu is a "Water Saving Tips" section with the text: "While hand watering your yard, focus on dry spots, and pay close attention so as to avoid runoff." At the bottom left is a "Subscribe IEUA Newsletter" section with the text "Get the latest news and updates right in your Email Inbox." and a "SUBSCRIBE NOW!" button.

On the right side, the "PUBLIC NOTICE" section lists several items:

- San Sevaine Basin Community Meeting – March 17, 2015 @ 6pm**  
San Sevaine Public Meeting 3-17-15  
Continue Reading
- 09-10-2014 – Public Information Notice – San Sevaine Soil Excavation Project (PIN #1)**  
Click here to download the pdf.  
Continue Reading
- 07-14-2014 – Public Information Notice – 930 Zone Recycled Water Pipeline (PIN #35)**  
Click here to download the pdf.  
Continue Reading
- 06-09-2014 – Notice of Public Hearing on Resolution 2014-6-1 and Resolution 2002-7**

# Contact Us

**IEUA Website: [www.ieua.org](http://www.ieua.org)**

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