FLOOD CONTROL DISTRICT of Maricopa County
2801 West Durango Street, Phoenix, AZ 85009-6399
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The Flood Control District of Maricopa County (FCDMC) Offers Four Training Workshops on Drainage Design Management System for Windows (DDMSW)

About the Workshop:

FCDMC is offering four workshops, i.e., two workshops for "Hydrology and Storm Drainage Hydraulics" and two workshops for "River Mechanics" using the latest version of DDMSW (Version. 5.6.0). The workshops will be held in the MCDOT Computer Training Room at 2919 W. Durango Street, Phoenix AZ 85009 (see Map below). The two "Hydrology and Storm Drainage Hydraulics" workshops will cover the same topics and course materials. The same is true for the two "River Mechanics" workshops. **Each workshop carries six hours of Continuing Education Credits (CEC).**

Fee:

A $92 training fee per participant per workshop will be charged to cover the training cost. Training fees for participants from public agencies will be waived.

When:

Workshop	Topics	Time	Date
No. 1	**Hydrology and Storm Drainage Hydraulics**	8:30 a.m. - 4:30 p.m.	06/04/2019, Tuesday
No. 2	**River Mechanics**	8:30 a.m. - 4:30 p.m.	06/05/2019, Wednesday
No. 3	**Hydrology and Storm Drainage Hydraulics**	8:30 a.m. - 4:30 p.m.	06/11/2019, Tuesday
No. 4	**River Mechanics**	8:30 a.m. - 4:30 p.m.	06/12/2019, Wednesday

Where:

Maricopa County Department of Transportation (MCDOT) Computer Training Room
2919 W Durango St, Phoenix Arizona 85009
(South side of MCDOT Traffic Operation Building; see Maps below)

Instructors:

The workshop will be conducted by Mr. Kenneth Lewis, P.E., of KVL Consultants, Inc. of Scottsdale, Arizona. Mr. Lewis is the President of KVL Consultants, Inc., a firm specializing in Storm Water and Flood Control Master Planning and in developing computer applications for GIS/System modeling integration. Before establishing his firm in 1994, Mr. Lewis served as Director of GIS for Boyle Engineering Corporation in the US; Manager of Planning for Europe, the Middle East and Africa for Ingersoll Rand Company in London, UK; Manager for Sinclair Knight Consulting Engineers, in Kuala Lumpur, Malaysia and Project Engineer for Sinclair Knight Consulting Engineers in Sydney, Australia. Mr. Lewis is the developer of the

DDMSW program. The river mechanics fundamentals will be presented by Mr. Carlos Carriaga, Ph.D., PE, CFM and Mr. Bing Zhao, Ph.D., P.E., Engineering Application Development and River Mechanics Branch, Engineering Division, Flood Control District of Maricopa County.

Registration and Payment:

Seating is limited for these workshops. Registrations will be on a "first come, first served" basis. To register, please contact the District's Front Desk by email ONLY at fdesk@mail.maricopa.gov to reserve a seat. To make a payment, please contact the District's Front Desk by phone at (602) 506-1501. **The registration and payment deadline is May 21, 2019.**

Payments shall be made through credit cards (Visa, Master, American Express, Discover), cash, or checks payable to *"Flood Control District of Maricopa County"*. Please make a note on the check to include the following information: ***"DDMSW training", attendee's name,*** and ***training date***. When calling the Front Desk for the payment, please indicate that the payment is for "DDMSW training" and provide the attendee's name, training date, company name, and phone number. **Payments must be made by May 21, 2019 deadline**. If payments are not received, the reserved seats will be cancelled.

Only one attendee from each company or agency will be allowed to attend the workshop. However, a company/agency can send one person to attend both the "Hydrology and Storm Drainage Hydraulics" and "River Mechanics" workshops or send two persons to attend these two workshops separately. If more people from one company want to attend the workshops, they can be added to the waiting list. **Each workshop carries six hours of Continuing Education Credits (CEC).**

Please register as soon as possible. Once the deadline is passed and if there are any available seats left, FCDMC will open and assign these seats to those on the waiting list.

Cancellation Policy:

A full refund of the training fee can only be honored if a cancellation email is received two (2) business days before the specific workshop session starts. The cancellation request must be sent to the District's Front Desk by email at fdesk@mail.maricopa.gov.

For Technical Questions:

Please contact:

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Recent DDMSW Features and Capabilities:

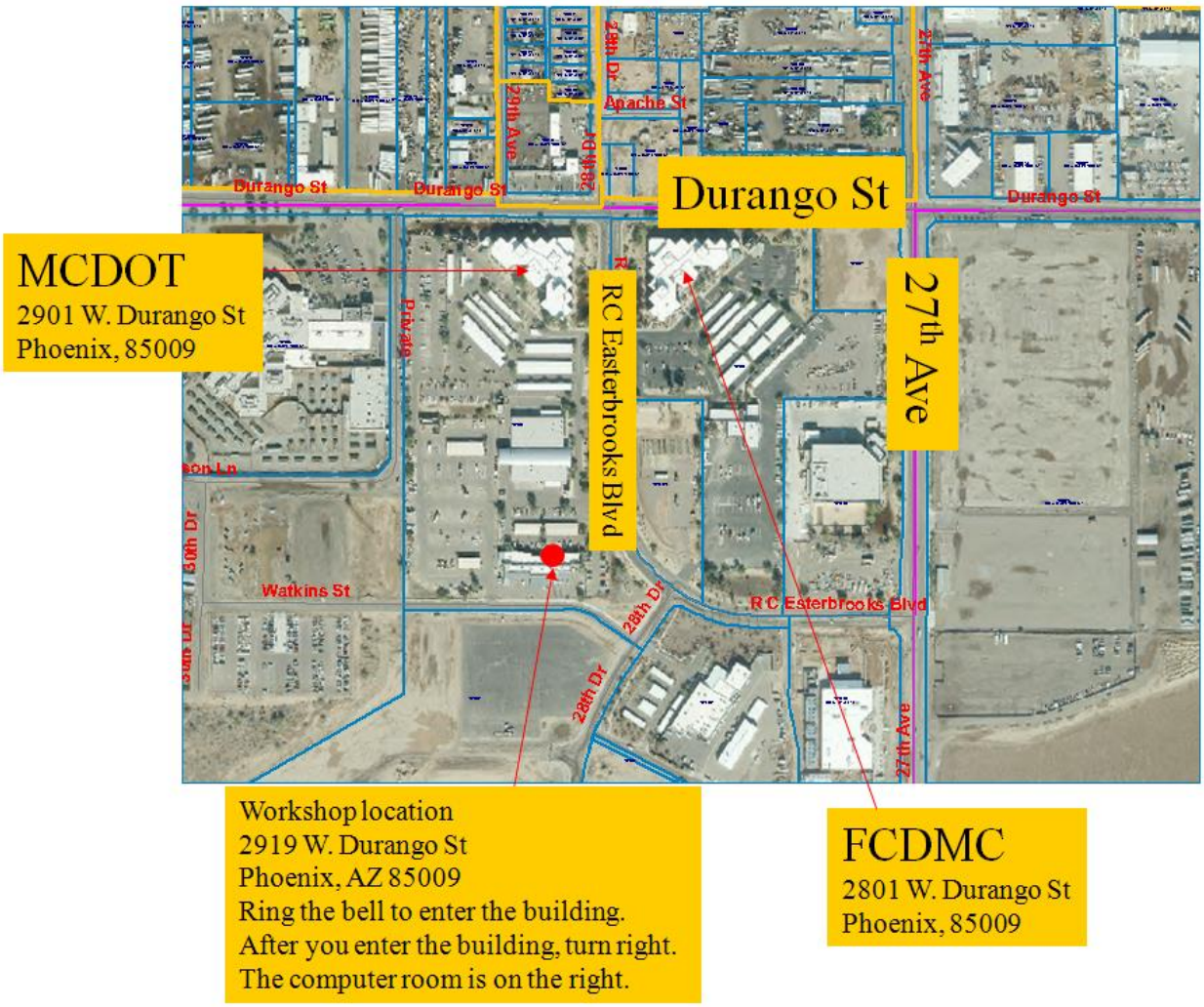
Hydrology:

- Allows users to run two different versions of DDMSW simultaneously
- Integration of the "HEC-1 HC Card Cumulative Area Tool" into DDMSW
- Includes NSTPS in the routing report
- Shows zero values in the storage facilities form and report
- Includes Volume in the hydrology summary report for the Rational Method
- Includes Time to Peak in the hydrology summary results and report for HEC-1
- Provided distinct lines for Envelope curves and symbol for diversion
- Modified various labels and mouse tips
- Upgraded the Storage facilities form
- Fixed the numeric overflow error in the channel hydraulics computation
- Added new land use codes for HEC-1 and Rational Method

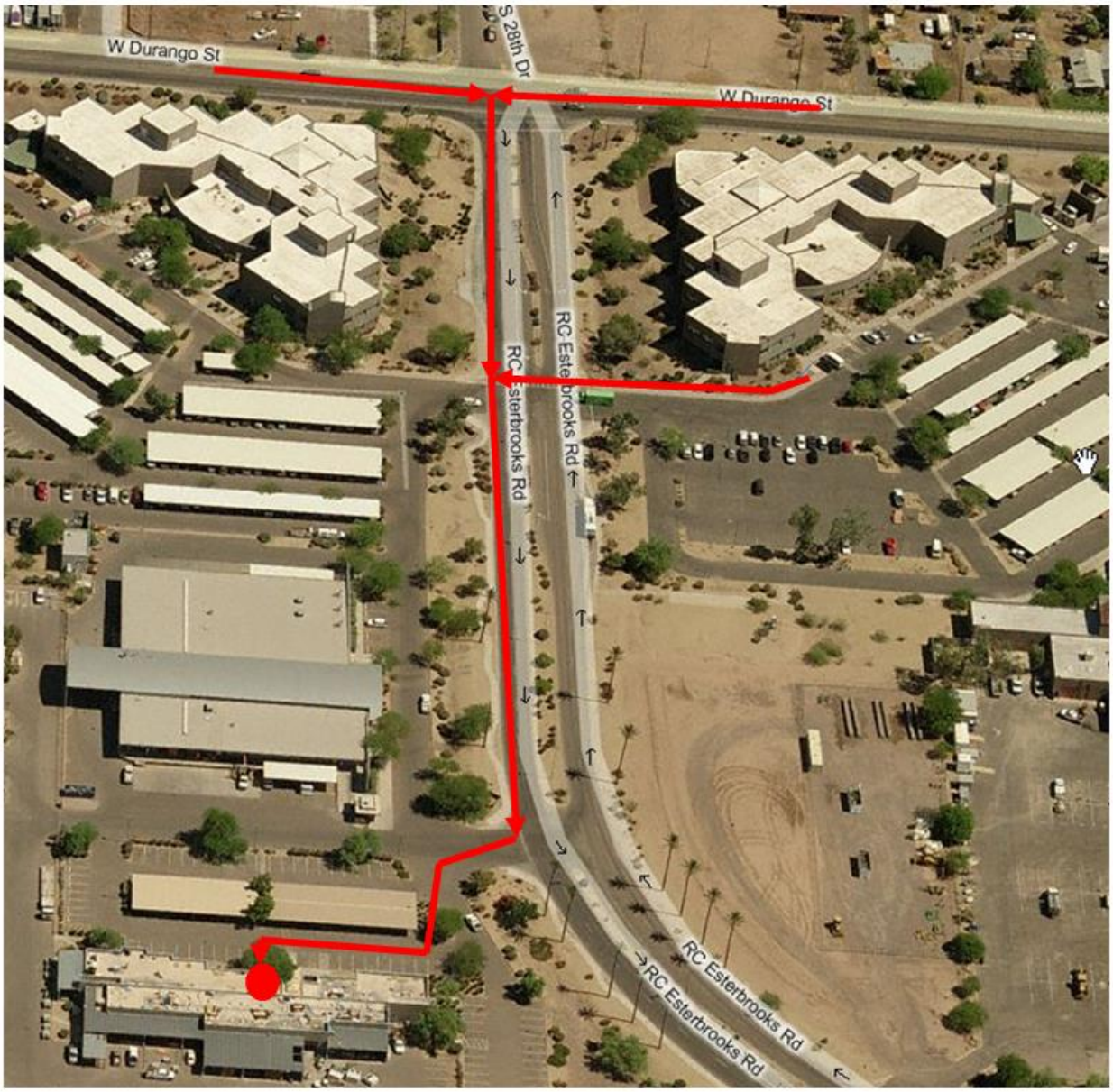
River Mechanics:

- Modified labels on the Long Term tab in the Total Scour form
- Modified labels on the Local Scour tab for Grade Control Structure
- Corrected inaccurate values on the Bedform tab
- Updated the hydraulic calculations for rectangular cross sections
- Updated the Long Term scour calculation from Equilibrium Slope method
- Modified various labels and mouse tips
- Updated the Local scour for Abutments
- Updated the Local scour for Guide Banks
- HEC-18 Implementation – Pressure Flow Scour
- HEC-18 Implementation – Pier Scour Influence Zone
- HEC-18 Implementation – NCHRP 24-20 Abutment Scour
- HEC-18 Implementation – NCHRP 24-20 Guide Bank Scour
- Updated Local scour selection label
- Updated Riprap thickness calculation
- Fixed the error associated with bed load parameters for the Sediment Yield analysis
- Fixed the error associated with Contraction scour calculation along with Neill's method for General scour

Training Venue (Red dot below)



Training Venue (Red dot below)



Lunch Places near the Workshop