CASFM Lunch and Learn

Good Example of Detention Basin with Water Quality
No Name Creek – Tall Grass Basin
Approved by UDFCD Maintenance Eligibility Program
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Water Quality Maintenance: Lessons Learned, Design Considerations, and improving your maintenance plan. April 14, 2016

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Background on WQCV and EURV
Lessons Learned and Design Considerations
No Name Creek – Belleview Detention Basin
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Lessons Learned and Design Considerations
Irondale Gulch – Silverado II Detention Basin
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Active Channel Notch
Stop Logs
Lessons Learned and Design Considerations
Irondale Gulch – Silverado II Detention Basin

Why is this sediment control log here?
Lessons Learned and Design Considerations
Irondale Gulch – Silverado II Detention Basin

Why is this sediment control log here?

Active Channel Notch

How well is the erosion log performing? Doesn’t this act like a sediment capture area?
Lessons Learned and Design Considerations
Sable Ditch – Sable Detention Basin
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Lessons Learned and Design Considerations
East Toll Gate Creek – Hampden Avenue Detention Basin
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Lessons Learned and Design Considerations
Cherry Creek – Ring Road Detention Basin

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Realistic Maintenance Plan for Water Quality Basins

1. Plan on routine debris removal and outlet trash rack and screen cleaning minimum 5 times per year.
2. Check outlet is functioning after each storm add additional cleanings as-needed.
3. Forebay is cleaned anywhere between 2 times per year to once every 5 years.
4. Micropool is cleaned out every 5-10 years.
5. Whole pond sediment removal every 15-30 years
Lessons Learned and Design Considerations
Rich and Jeff’s Top Six List

1. Don’t try to fit 10 pounds of potatoes into a 5 pound bag.
2. Don’t mow detention basins with water quality.
3. How does the design consider maintenance?
4. Debris and pond clean out is cheap, don’t skimp on this maintenance.
5. Observation and monitoring are urgent.
6. To err is human, to learn and adjust is critical.
Agenda

1. Introduction (Rich)
2. Lessons Learned and Design Considerations (Rich and Jeff)
3. Realistic Maintenance Plan (Rich)
4. Top things to consider for Maintenance and Design.