2015/2016 Annual Report List of Appendices

Program Management

4A1. City of Sacramento Organization Chart
4A2. CASQA Webinar – Lessons Learned from Program Effectiveness Assessment Development and Implementation

Construction

4B. Summary of Private Development Projects Conditioned
4C. Summary of Building/Grading Permits Approved - Private Development Sites
4D. Summary of Private Development Sites Inspected, Map of Violations and Sample Inspection Form
4E. NPDES Annual Training Construction/New Development Training - Sign-in Sheets and Presentations
4F. Rainy Season Preparation and Winterization Certification Reminder
4G. Summary of ESC Design Plans and Implementation Assessment for Private Projects

Commercial/Industrial

No Attachments

Municipal Operations

4H. Municipal Operations Training - Summary, Sign-in Sheets and Presentations

Illicit Discharge

4I. Potential Illicit Discharge Location Map

Public Outreach

No Attachments

New Development

4J. Map of On-site Treatment Control Measures approved as of 06/30/2016
4K. Summary of Treatment Control Measures with Maintenance Agreements, Sample Maintenance Request Letter, Agreement, and Record.
4A1. City of Sacramento Organization Chart
4A2. CASQA Webinar – Lessons Learned from Program Effectiveness Assessment Development and Implementation
Lessons Learned from Program Effectiveness Assessment Development and Implementation

CASQA Webinar
December 2, 2015

Hosted by:
Karen Ashby – Larry Walker Associates
Scott Taylor – Michael Baker International

Instructions for Today

- Participants will be muted
- Pause for questions after each speaker
- Ask questions via “chat” function
  – Send to Karen Ashby

Agenda

- Central Coast Program Effectiveness Assessment and Improvement Plans
  – Dominic Roques
- Lessons Learned in Assessing Existing Development Sources
  – Jon Van Rhyn
- Sacramento Stormwater Quality Program Long Term Effectiveness Assessment
  – Sherill Huun
- PEA from a Non-Traditional Phase II Perspective
  – Lisa Moretti

CASQA Guidance Document

- One approach
- Terms and key concepts
- Assessment strategy
- Assessment methods
- Identifies applicability to program elements/minimum control measures
- Provides examples

Baseline Report – August 2014

https://www.casqa.org/effectiveness_assessment
Education and Outreach

Program Effectiveness Assessment and Improvement Plan (PEAIP) Framework

Central Coast Program Effectiveness Assessment and Improvement Plans

Dominic Roques
Storm Water Program Manager
Central Coast Water Board

Presentation

- Introduction
- Regional Board’s Expectations for EA
- Assisting Permittees
- Results
- Continuing Challenges
- Conclusion

California’s Central Coast

38 Phase II
1 Phase I
22 MS4 w/TMDLs

WATERSHED MANAGEMENT ZONES

Guides Implementation of Post-Construction Requirements

Methods and Data Limitations

Figure 17. Limitations to Effectiveness Assessment, MS4 Program Manager Perspective
Regional Board’s Expectations

- Map Stormdrain System to Support EA
- Design BMP Inventory
- Design BMP Effectiveness Assessment
- Identify Steps to Quantify Pollutant Loads and Load Reductions Achieved by the Program as a Whole

Assisting Permittees

Map Stormdrain System to Support EA

- Map requirements found in IDDE Section of Phase II Permit
- Delineate Urban Catchment
- Land Uses
- Priority Areas
- Hydrologic Routing - Know the Flow
- Webinar to Assist Permittees

Urban Catchments

- BMP Rapid Assessment Method (RAM)
- On-line inventory and performance tracking
- Structural BMP focus

Assisting Permittees

Design BMP Inventory and BMP Effectiveness Assessment

- BMP Rapid Assessment Method (RAM)
- On-line inventory and performance tracking
- Structural BMP focus

Assisting Permittees

Identify Steps to Quantify Pollutant Loads and Load Reductions

- Tool to Evaluate Load Reduction (TELR)
- Land Use Condition estimated at parcel scale
- User Guidance and Webinars to assist Permittees

Assisting Permittees

MS4 Support Project: Develop a Process and Supporting Tools

- Tool to Evaluate Load Reduction (TELR)
- Land Use Condition estimated at parcel scale
- User Guidance and Webinars to assist Permittees
Results

Some commit to Spatial objectives
Some commit to load quantification
Some missed the boat entirely

Continuing Challenges

- Greater consistency among Permittees
- Increase capacity for smaller MS4s
- Completing BMP Inventories
- Making a lasting change beyond Year 5
  - “Identify BMPs or program modifications in priority program areas that will be made in the next permit-term”
- Assessing load reductions from non-structural BMPs

Conclusion

Urban Catchment-Based EA

- Foundation for:
  - Better understanding of BMP effectiveness
  - Better monitoring design
  - Better compliance demonstration

Central Coast Approach to EA

- Spatially Explicit: Urban Catchment
- Quantifiable: Pollutant Loading is Focus
- Tools Assist Permittees: BMP RAM / TELR
- Inform future Permits revisions: Salinas in 2017; Phase II Permit in 2018
- Create a future where: Permittees are managing urban runoff on a catchment scale to protect and restore watershed processes, accrue benefits of climate resilience, and water supply security

QUESTIONS

Please send in your questions using the ‘chat’ feature to Karen Ashby.
All participants are muted throughout the webinar.
Overview of Major Source Categories

Today’s Focus is on Behavior (Outcome Level 3)

Commercial and Industrial Sources

Potential Assessment Tools
- Regulatory compliance inspections
- Facility audits
- Complaint investigations
- Surveys and special investigations

County of San Diego Commercial and Industrial Sources (FY 2011-12)
Regulatory Inspection Targets for Industrial Sources

<table>
<thead>
<tr>
<th>Target Objective</th>
<th>Target Percentage</th>
</tr>
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<tbody>
<tr>
<td>1. Compliance with control equipment</td>
<td>100%</td>
</tr>
<tr>
<td>2. Compliance with specific PHAP requirements</td>
<td>100%</td>
</tr>
<tr>
<td>3. Compliance with specific BMP requirements</td>
<td>100%</td>
</tr>
<tr>
<td>4. Compliance with specific source control requirements</td>
<td>100%</td>
</tr>
<tr>
<td>5. Accumulated violation of controls requirements</td>
<td>100%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Source Control</th>
<th>Target Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>No violation</td>
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</table>

<table>
<thead>
<tr>
<th>Emission Control</th>
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<table>
<thead>
<tr>
<th>EHF Implementation</th>
<th>Target Percentage</th>
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<tr>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Equipment Implementation</th>
<th>Target Percentage</th>
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</thead>
<tbody>
<tr>
<td>No violation</td>
<td>0%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compliance with BMP requirements</th>
<th>Target Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>No violation</td>
<td>100%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Potential Improvements</th>
<th>Target Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pollutant loads and reductions</td>
<td>100%</td>
</tr>
<tr>
<td>Frequency and impacts of specific practices (BMPs rather than violations)</td>
<td>100%</td>
</tr>
<tr>
<td>Impacts on MS4s and receiving waters</td>
<td>100%</td>
</tr>
<tr>
<td>Specific impacts of different facility/source and target audience types</td>
<td>100%</td>
</tr>
</tbody>
</table>

Multi-year Industrial Source Inspection Results

<table>
<thead>
<tr>
<th>Source Control</th>
<th>Compliance Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Complying with specific PHAP requirements</td>
<td>100%</td>
</tr>
<tr>
<td>2. Complying with specific BMP requirements</td>
<td>100%</td>
</tr>
<tr>
<td>3. Complying with specific source control requirements</td>
<td>100%</td>
</tr>
<tr>
<td>4. Compliance with specific control measures</td>
<td>100%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Potential Improvements</th>
<th>Compliance Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pollutant loads and reductions</td>
<td>100%</td>
</tr>
<tr>
<td>Frequency and impacts of specific practices (BMPs rather than violations)</td>
<td>100%</td>
</tr>
<tr>
<td>Impacts on MS4s and receiving waters</td>
<td>100%</td>
</tr>
</tbody>
</table>

Commercial & Industrial Facilities Summary of Lessons Learned

Achievements:
- Regulatory compliance levels well understood
- Improvements in compliance demonstrated over time
- Some behavioral baselines and trends generally understood

Potential Improvements:
- Pollutant loads and reductions
- Frequency and impacts of specific practices (BMPs rather than violations)
- Impacts on MS4s and receiving waters
- Specific impacts of different facility/source and target audience types

Residential Sources (~503,000 in 2010)

Potential Assessment Tools:
- Surveys and tests
- Website hits and hotline calls
- Complaint investigations
- Residential inspections/audits
- Recycling and waste collection
- Incentive program participation
- Event participation
- Special investigations

Surveys and Tests

Recycling and Waste Collection
Residential Sources
Summary of Lessons Learned

Achievements
- Recycling and waste collection well documented
- Limited improvements demonstrated over time
- Knowledge, behavioral intention, and behavioral baselines are increasing
- Some behavioral trends are generally understood

Potential Improvements
- Pollutant loads and reductions
- Impacts on MS4s and receiving waters
- Specific impacts of different target audiences
- Frequency and impacts of specific practices
- Behavioral baselines sometimes lack context
- Knowledge often focuses on training/educational interactions (pre- and post-tests)
- Assessment is often piecemeal

Municipal Sources
Potential Assessment Tools
- Compliance inspections / audits
- Surveys and tests
- Complaint investigations
- Recycling and waste collection
- Special investigations

County of San Diego Municipal Sources (FY 2011-12)

<table>
<thead>
<tr>
<th>Source Type</th>
<th>Fiscal Year</th>
<th>Ave X 300</th>
</tr>
</thead>
<tbody>
<tr>
<td>House, Road, Retail, Other</td>
<td>33</td>
<td></td>
</tr>
<tr>
<td>Rural Residential Wastewater</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td>Residential Wastewater</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td>Total Plan/Exhibit</td>
<td>33</td>
<td></td>
</tr>
<tr>
<td>Miscellaneous Sources</td>
<td>33</td>
<td></td>
</tr>
<tr>
<td>Stormwater Stormwater</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Municipal Utilities</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Non-Municipal Wastewater</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>Stormwater Residential Wastewater</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Stormwater Residential Wastewater</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Stormwater Municipal Utilities</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Stormwater Non-Municipal Utilities</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Stormwater Irrigation</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Stormwater Industrial</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

Overall Lessons Learned for Existing Development Sources

Achievements
- Regulatory compliance, knowledge, behavioral intention, and behavioral baselines are well understood or increasing
- Some behavioral trends generally understood
- Recycling and waste collection well documented (low hanging fruit)
- Limited improvements demonstrated over time (but not always meaningful)

Potential Improvements
- Pollutant loads and reductions remain elusive
- Regulatory compliance, knowledge, and behavioral intention are less meaningful than detailed behavioral assessment
- Frequency and impacts of specific practices is key to projecting loads and reductions
- Specific impacts of target audiences and behaviors on MS4s and receiving waters are needed
- Assessment remains piecemeal; strategies are needed for integrating diverse and focused metrics
- Continued experimentation and critical review are paramount

Sacramento Stormwater Quality Program
Long Term Effectiveness Assessment

Sherill Huun
Supervising Engineer
December 2015

Please send in your questions using the 'chat' feature to Karen Ashby.
All participants are muted throughout the webinar.

QUESTIONS
Background
- Permittees: County of Sacramento and cities of Sacramento, Citrus Heights, Elk Grove, Folsom, Galt, and Rancho Cordova
- 1st Permit issued in 1990
  - 1996 Effectiveness Evaluation
- 5th Permit—Limited Term (18 months) issued in 2015
  - Stormwater Quality Improvement Plan (SQIP) – 2009
  - Report of Waste Discharge (ROWD) / Long Term Effectiveness Assessment (LTEA) – March 2013
- Next Permit: Region-wide MS4 Permit – Late 2016

2009 Approach
- 2009 SQIP – Program Effectiveness
  - Based on CASQA’s 2007 Municipal Stormwater Program Effectiveness Assessment Manual
  - Annual effectiveness assessments of activities
  - Long-term effectiveness assessments of overall program
    - 2013 Long Term Effectiveness Assessment

Programmatic Evaluation
- Each Program Element Evaluated
  - 2-3 Key Indicators selected per Element
  - Used to assess and document progress toward meeting Program Element Goal
    - Program/Activity improvement
  - Performance Standard/Target set
    - Specific, measurable and achievable metrics
  - Schedule for assessments established

Construction Element
- Goal: The goal of the Construction Element is to reduce the discharge of stormwater pollutants at construction sites to the maximum extent practicable (MEP) by requiring erosion, sediment and pollution controls.
- Key Indicator/Task: Monthly assess the quality of the ESC plans for 30% of permits issued for regulated private development projects
- Performance Standard/Target: All regulated projects include adequate ESC plan (Outcome level 3: Change in behavior)

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Permits Issued</th>
<th>Approved Plans</th>
<th>Assessed Plans</th>
<th>Percent of Assessed Plans</th>
<th>Percent of Plans that Met Minimum Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009/2010</td>
<td>35</td>
<td>12</td>
<td>34</td>
<td>83% (10 of 12)</td>
<td></td>
</tr>
<tr>
<td>2010/2011</td>
<td>23</td>
<td>12</td>
<td>52</td>
<td>100% (12 of 12)</td>
<td></td>
</tr>
<tr>
<td>2011/2012</td>
<td>16</td>
<td>10</td>
<td>63</td>
<td>100% (16 of 16)</td>
<td></td>
</tr>
<tr>
<td>2012/2013</td>
<td>23</td>
<td>14</td>
<td>61</td>
<td>Less than 100%</td>
<td></td>
</tr>
<tr>
<td>2013/2014</td>
<td>25</td>
<td>14</td>
<td>56</td>
<td>100% (14 of 14)</td>
<td></td>
</tr>
<tr>
<td>2014/2015</td>
<td>22</td>
<td>15</td>
<td>68</td>
<td>100% (15 of 15)</td>
<td></td>
</tr>
</tbody>
</table>
Construction Element

- Key Indicator/Task: Inspect private construction projects that disturb one or more acres of land to ensure that the required ESC plan measures are implemented and maintained
- Performance Standard/Target: All regulated construction sites implement and maintain the required ESC plan measures (Outcome level 3: Change in behavior)

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Permits Issued</th>
<th>Approved Plans</th>
<th>Percent of Plans</th>
<th>Percent of Sites that Met Minimum Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010/2011</td>
<td>23</td>
<td>12</td>
<td>52%</td>
<td>83%</td>
</tr>
<tr>
<td>2012/2013</td>
<td>23</td>
<td>14</td>
<td>61%</td>
<td>*</td>
</tr>
<tr>
<td>2013/2014</td>
<td>16</td>
<td>7</td>
<td>76%</td>
<td>*</td>
</tr>
<tr>
<td>2014/2015</td>
<td>9</td>
<td>9</td>
<td>100%</td>
<td>*</td>
</tr>
</tbody>
</table>

Qualitative assessments:
- Inspections conducted in a systematic manner
- Sites are provided with adequate written plans
- Results are documented and results of risk assessments
- Contractors not all diligent during inspections

Example Key Indicators

- Commercial/Industrial Element Performance Standard – Decrease in violations observed from one cycle to the next
- Municipal Operations Element Performance Standard – Show an increase in the effectiveness ranking for all sites by the end of the Permit term
- New Development Element Performance Standard - Annual maintenance verification

Lessons Learned

- Focus assessments to key activities and indicators
- Don’t assess every program area (e.g., training)
- Eliminate “counting” exercises
- Consider level of effort needed for assessments
- Choose metrics or performance standards that provide useful information that inform your program & regulators
- Avoid increase Deliverables:
  - Don’t increase number of responses, contacts, and amount of data collected
  - Ensure that what is reported is meaningful
- Doing the task does not mean that you did it well
- Focus on quantitative measurements

Environmental Outcomes

- Robust monitoring program
  - River, Creek and Urban discharge monitoring and special studies
- Established management questions
- Analyze data:
  - Trend analysis
  - Up-stream-Down-stream comparisons
  - Urban Runoff Discharge Load Modeling
  - Comparison of New Development vs Pre-1990 Development
- Program focus on Target Pollutants

Management Questions

- What is the existing condition of receiving water quality and is it protective of beneficial uses?
- What is the quality of urban discharge in new developed areas?
- What is the trend of urban discharge quality?
- What is the relative urban runoff contribution to receiving water quality?
- What are the sources to urban runoff that affect receiving water quality?
- Are conditions in receiving waters getting better or worse?
- How can changes in urban water quality affect receiving water quality?

- River Receiving Waters are of High Quality – supports beneficial uses
- Infrequent exceedances of water quality
- Both rivers are sought after drinking water sources
- Significant toxicity is infrequent in all receiving waters
- Pyrethroid Insecticides Pose Risk to Aquatic Life in Urban Tributaries
What is the quality of urban discharge in new developed areas?

- New Development Land Use and Structural Controls have Improved Overall Urban Runoff
  - Comparison of older development areas vs. new development areas
    - Creek sites
    - Urban runoff sites (old vs. new)

Lessons Learned

- Traditional monitoring adequately characterized conditions, but only successfully identified large changes related to product replacement.
  - Frequency of urban discharge and urban tributary monitoring can be decreased.
- COCs in urban runoff are similar to other California communities or are driven by specific reusing water or downstream issues.
- Trend monitoring under the current approach will identify only significant changes.
- Monitoring Program focused on receiving waters has limited ability to link individual program activities to changes in water quality, or to identify changes occurring on a year-to-year basis.
- Implementation of new development standards significantly improves the quality of urban runoff.

Contact Information

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**QUESTIONS**

**Program Effectiveness Assessment from a Non-Traditional Phase II Permittee Perspective**

Lisa Moretti, P.E., QSD, QISP TOR
University of California, Davis
Environmental Health & Safety

**Overview**

- Program Effectiveness Assessment and Improvement Plan (PEAIP)
- Management Questions
- Determining Data Needs
- Assessment Matrix

**Program Effectiveness Assessment and Improvement Plan**

- Water Quality Data
- Operational Knowledge
- Land Use

**Priority Pollutants**

**Pollutant Sources**

**Data Gaps**

**Scaling Down and Scaling Up**

What are our BMPs aiming to address, and do we have data available to prove the BMPs are addressing the problem?

- Increase focus on Priority BMPs
- Stop collecting data that doesn’t show effectiveness

**Program Effectiveness Assessment Framework**

- Pollutant Sources
- Target Audience
- Program Element
- Priority BMPs
- Management Questions
- Data Needs
Source Assessment: Pathogens

<table>
<thead>
<tr>
<th>Pollutant Source</th>
<th>Target Audiences</th>
<th>Program Element</th>
<th>Priority BMPs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pathogens (Pet waste and duck overpopulation)</td>
<td>Arboretum Visitors</td>
<td>Education and Outreach</td>
<td>Visitor Information</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Staff Pollution Prevention and Good Housekeeping</td>
<td>Dog Waste Bags</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Public Involvement</td>
<td>Staff Training</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Wildlife Management Plan</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Outreach Events</td>
</tr>
</tbody>
</table>

Outcome Levels

<table>
<thead>
<tr>
<th>Outcome Level</th>
<th>Management Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Are program elements being fully implemented?</td>
</tr>
<tr>
<td>2</td>
<td>Are BMPs increasing knowledge and awareness?</td>
</tr>
<tr>
<td>2</td>
<td>Have barriers and bridges to action been addressed to effectively change behavior that contributes to storm water pollution?</td>
</tr>
<tr>
<td>3</td>
<td>Are BMPs resulting in a reduction of pollutant generating activities?</td>
</tr>
<tr>
<td>4</td>
<td>Are pollutant sources being reduced due to implementation of the BMP?</td>
</tr>
</tbody>
</table>

Management Questions

- Are visitors aware of their impacts? (OL2)
- Are visitors changing their behavior to eliminate pet waste and to stop feeding wild animals? (OL3)
- Is public outreach and education resulting in changed behavior? (OL3)
- Is the Wildlife Management Plan implementation resulting in a reduction in overpopulated species contributing to pathogens? (OL4)

Data Needs

<table>
<thead>
<tr>
<th>Outcome Level 1 (Stormwater Program Activities)</th>
<th>Outcome Level 2 (Barriers and Bridges to Action)</th>
<th>Outcome Level 3 (Target Audience Actions)</th>
<th>Outcome Level 4 (Source Pollutant Loads)</th>
</tr>
</thead>
<tbody>
<tr>
<td>• No. of Outreach Events</td>
<td>• % Surveyed with awareness of impacts of pet waste who have attended outreach events</td>
<td>• Observation of visitor behavior</td>
<td>• Fecal Indicator Bacteria sample results from Arboretum Outfall</td>
</tr>
<tr>
<td>• No. of Signs</td>
<td>• % Surveyed with awareness of impact of ducks on water quality who have read outreach materials</td>
<td>• Use of pet waste bags</td>
<td>• Duck population counts</td>
</tr>
<tr>
<td>• No. of Staff Trained</td>
<td>• Are staff implementing measures to limit duck overpopulation?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• No. of bags stations</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Assessment Tools

- Staff and Visitor Surveys (OL1, 2, 3)
- Training Quizzes (OL 1, 2, 3)
- Site Inspections (OL 1, 2, 3) – Hotspots, Construction, Inspection
- Website Analytics (OL 1)
- Illicit Discharge Reports (OL 2, 3, 4)
- Outfall Sampling (OL 5)
- Receiving Water Quality Samples (OL 6)
Program Effectiveness Assessment

<table>
<thead>
<tr>
<th>Priority BMP</th>
<th>Implementation Level</th>
<th>Effectiveness Level</th>
<th>Proposed Modification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distribute Visitor Outreach Materials on Feeding Wildlife</td>
<td>Full</td>
<td>Low</td>
<td>Conduct outreach events</td>
</tr>
<tr>
<td>Staff Training</td>
<td>Full</td>
<td>Medium</td>
<td>N/A</td>
</tr>
<tr>
<td>Pet Waste Bag Stations</td>
<td>Full</td>
<td>Medium</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Effectiveness Level

- **Low**
  - Outcome Level 1 results only
  - Implemented, but no evidence that there was an impact

- **Medium**
  - Outcome Level 2 results
  - Results in a change of awareness

- **High**
  - Outcome Level 3-4 results
  - Results in a change in behaviors or reduction in pollutant load

Templates

Contact Information

Lisa Moretti
imoretti@ucdavis.edu
530-752-0177
Please send in your questions using the 'chat' feature. All participants are muted throughout the webinar.

QUESTIONS

Program Effectiveness Assessment
Thank you for Attending!

CASQA WEBINAR
4B. Summary of Private Development Projects Conditioned
<table>
<thead>
<tr>
<th>Date Recd Electronically</th>
<th>Date Due</th>
<th>Date Out</th>
<th>Entitlement #</th>
<th>Project Location</th>
<th>Type of Entitlements</th>
<th>Conditions</th>
<th>Project is in Combined Sewer System</th>
<th>No Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/29/2015</td>
<td>7/24/2015</td>
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P15-051
P15-054
DR15-329
Z15-048
Z15-050

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Z15-041

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PB15-073
P15-057
Z15-051

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P15-028

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COC15-0043
P15-030
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P15-056
Z15-047

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P15-059

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P15-058

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COC15-0027
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DR15-354
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COC15-0045
COC15-046
COC15-047
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Z15-055
PB15-074
DR15-355
P15-065
P15-066
P15-069
DR15-368
P15-067
P15-068
COC15-0048
P15-070
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P16-030
PB16-036
COC16-0020
DR16-139
COC16-0021
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DR16-141
Z16-028
Z16-029
Z16-027
DR16-180
P16-032
P16-033
Z16-030
P16-035
Z16-032
PB16-020
Z16-023
COC16-0023
Z16-034
Z16-036

11/6/2015
11/10/2015
11/24/2015
11/6/2015

8715 Center Parkway
4360 63rd Street
2700 Capitol Avenue
601 Capitol Mall
4029 Cayente Way
River Oaks W El Camino
and Orchard Lane - TIME
EXT
2030 Club Center Drive
2605 Freeport Blvd
2324 I Street
1 Cadillac Drive
650 South Avenue
1324 Arden Way REVISED
8500 & 8516 Fruitridge
Road
3809 Dayton Sreet
2301 & 2305 K Street
Camino Station (revised)
1817 T Street - REVISED
2200 Del Paso Road
La Fontana at Creekside
1509 D St, Mansion Flats
Modern
2408 51st Ave Triplex
19th & Q Street (Proj:
1011 Broadway
2501 Sutterville Road REVISED
1825 10th Street
3111 65th Street,
0 Barandas Drive
3938 14th Avenue
Natomas Phase1A, Lot 71027 7th Street (West Mall)
545 K Street (East Mall)
6333 & 6341 Stockton
222 20th st & 1925 C St
1500 21st Street & 2000 O
6201 Florin Perkins Road
15th& T Brownstone
6600 63rd Street
1417 20th Street
1323 44th St Cook
1120 Exposition Boulevard
133 Morey Avenue
2230 Del Paso Rd
3838 Mckinley Blvd
2726 Capitol Avenue
7310 W Stockton Blvd.
1440 Meadowview Road &
1928 P Street
8635 Fruitridge Road
2401 Fruitridge Road
3401 2nd Street
1808 & 1812 Broadway
Diesel Drive Truck Paving
2700 Capitol Avenue
1723 26th Street
5303 Stockton Blvd
145 Morey Avenue
210 Morrison Avenue
3048 4th Ave
4801 J St
3348 S Street
Broadway Care Facility
Thelma Avenue
1717 34th St
1187 & 1189 Arcade Blvd
2612 Q Street
1475 Potrero Way
2800 Del Paso Road
5315 H Street
2935 39th Street

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SPDR
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TOTAL PROJECTS CONDITIONED

131

Page 2 of 2


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<th>Name</th>
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<td>D1</td>
<td>Prior to submittal of improvement plans, prepare a project specific drainage study for review and approval by the DOU. The 10-year and 100-year hydraulic grade lines (HGL’s) for this study shall be calculated using the City’s Storm Water Management Model (SWMM) or North Natomas Drainage Design and Procedures Manual, dated July 1998 and amendments thereto, shall be shown on the improvement plans. The drainage study shall be developed using the Master Drainage Study for the project area. The drainage study shall consider freeway drainage. Sufficient off-site and on-site spot elevations shall be provided in the drainage study to determine the direction of storm drain runoff. The drainage study shall include an overland flow release map for the proposed project.</td>
<td>Typical language when SWMM modeling is required. If project is infill in a larger master planned community, condition should reference the original master drainage study (typical).</td>
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<tr>
<td>D2</td>
<td>Prior to submittal of improvement plans, prepare a project specific drainage study for review and approval by the DOU. The 10-year and 100-year hydraulic grade lines (HGL’s) for this study shall be calculated using the City’s Storm Water Management Model (SWMM). The drainage study shall include a basin designed and constructed for flood control and water quality treatment. The flood control volume shall be established using the 100 year – 10 day storm and the 100 year -24 hour storm. Contact the DOU for the design criteria. R.D. 1000 shall approve in writing the pump-out rate from the basin (the maximum pumping rate allowed for other North Natomas developments has been 0.1 cfs/acre). Sufficient off-site and on-site spot elevations shall be provided in the drainage study to determine the direction of storm drain runoff. The drainage study shall include an overland flow release map for the proposed project.</td>
<td>Alternative to D1 for project with a basin.</td>
</tr>
<tr>
<td>D3</td>
<td>The applicant shall complete a drainage master plan for this site. The 10-year and 100-year HGL’s for this study shall be calculated using the City’s SWMM model. All drainage lines shall be placed within the asphalt section of public-right-of-ways as per the City’s Design Procedures Manual, unless otherwise approved by the DOU. The drainage master plan is required to show the sizes of all common trunk lines in the street right-of-ways. The drainage master plan shall include basins designed and constructed for flood control and water quality treatment. The flood control volume shall be established using the 100 year – 10 day storm and the 100 year -24 hour storm. Contact the DOU for the design criteria. R.D. 1000 shall approve in writing the pump-out rate from the basins (the maximum pumping rate allowed for other North Natomas developments has been 0.1 cfs/acre). The DOU shall approve the drainage master plan and any phasing plan, if appropriate, included with the master plan for drainage infrastructure.</td>
<td>Alternative typically used for Master Parcel Maps.</td>
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<tr>
<td>D4</td>
<td>An on-site drainage study and shed map as described in Section 11.7 of the City Design and Procedures Manual is required. The project will be required to provide storm water detention in the low points of the street and/or landscape areas and/or in detention vaults or oversized drainage pipes located in the street. The project area is serviced by Sump No. ____, which has a capacity of ___ cubic feet per second per acre. According to the City Design and Procedures Manual, the project site will be required to store ____ cubic feet per acre of storm water</td>
<td>Alternative for infill project where client will not likely perform study to determine 10-yr and 100-yr HGL’s. Includes on-site detention language.</td>
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<td><strong>D5</strong></td>
<td>A drainage study and shed map as described in Section 11.7 of the City Design and Procedures Manual is required. The drainage study shall include an overland flow release map for the proposed project. Sufficient off-site and on-site spot elevations shall be provided in the drainage study to determine the direction of storm drain runoff. The DOU shall approve this study and shed map. The on-site storm drain system shall be sized per latest design runoff standards. Prior to design, contact the DOU for the design criteria.</td>
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<td>Alternative typically used for <strong>infill projects</strong>.</td>
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<tr>
<td><strong>D6</strong></td>
<td>An on-site drainage study and shed map is required. The DOU shall approve this study and shed map. The 10-year HGL shall be determined using the Sacramento Charts for Zone 2. The on-site storm drain system shall be sized per latest design runoff standards. Prior to design, contact the DOU for the design criteria.</td>
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<td>Another alternative typically used for small <strong>infill projects</strong>.</td>
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<td><strong>D7</strong></td>
<td>Prior to submittal of improvement plans, prepare a project specific drainage study and overland release map for review and approval by the DOU. The 10-year and 100-year hydraulic grade lines (HGL’s) for the drainage study shall be calculated using the City’s Storm Water Management Model (SWMM). The study is required to show the sizes of all drainage pipes in street right-of-ways. This development is located within Drainage Shed ___. The DOU has completed a SWMM model for this shed and the surrounding area. Sufficient off-site and on-site spot elevations shall be provided in the drainage study to determine the direction of storm drain runoff.</td>
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<td><strong>Infill Projects</strong> where the City has completed a SWMM model for the shed.</td>
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<td><strong>D8</strong></td>
<td>The applicant shall use the SWMM model to determine the amount of detention volume required in detention vaults or oversized pipes located in the streets and/or in low points of the streets and/or landscaping areas prior to overland release. The detention storage required for the proposed development shall meet the “do no harm” criteria.</td>
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<td><strong>Infill Projects</strong> in areas where pipes are under-sized and the project will evaluate using a SWMM model.</td>
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<tr>
<td><strong>D9</strong></td>
<td>Prepare a drainage study for this subdivision consistent with the JCPA Drainage Master Plan for the review and approval of the DOU. The drainage system within Watershed 5 shall discharge to a water quality detention basin prior to entry into Jacinto Creek consistent with the Drainage Master Plan. The DOU and Public Works Special Districts Section shall approve any proposed changes to the Drainage Master Plan. The 10-year HGL shall be no higher than 6 inches below the lowest drop inlet (DI). Finished lot pad elevations shall be a minimum of 1 foot about the 100-year HGL and 1.5 feet above the controlling overland release. The 10-year and 100-year HGL’s shall be shown on the improvement plans and shall be approved by the DOU.</td>
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<td><strong>JCPA area</strong>.</td>
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<tr>
<td><strong>D10</strong></td>
<td>The existing City drainage system that fronts this project is severely undersized with a history of localized street flooding. Therefore, the development of this site must comply with the DOU’s “Do No Harm” policy per section 11 (Storm Drainage Design Standards) of the City’s Design and Procedures Manual. To meet this requirement 5000 cubic feet of detention must be provided per each additional acre of impervious area. This required detention volume can be reduced by incorporating Low Impact Development (LID) measures into the project design, such as porous pavement, green roofs, disconnected down spouts, etc. The DOU will evaluate any selected LID measures and determine</td>
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<td><strong>Undersized existing drainage system - Do No Harm. The 5000 cubic feet applies just to the combined sewer system area.</strong></td>
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an adjusted required detention volume.

### Grading to Prevent Flooding

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<tr>
<td>D11</td>
<td>The finish floor shall be above the 100-yr HGL or 1.5-feet above the local controlling overland flow release elevation, whichever is higher or as approved by the DOU.</td>
<td>INFILL Projects (applies to both residential and commercial) 7/21/15</td>
</tr>
<tr>
<td>D12</td>
<td>Finish floor elevations shall be a minimum of 1-foot above the 100-year HGL or 1.5–feet above the local controlling overland flow release elevation, whichever is higher or as approved by the DOU.</td>
<td>GREENFILL Projects (applies to both residential and commercial) – Finish Floor 7/21/15</td>
</tr>
<tr>
<td>D13</td>
<td>Per City Code, the Subdivider may not develop the project in any way that obstructs, impedes, or interferes with the natural flow of existing off-site drainage that crosses the property. The project shall construct the required public and/or private infrastructure to handle off-site runoff to the satisfaction of the DOU. If private infrastructure is constructed to handle off-site runoff, the applicant shall dedicate the required private easements and/or, at the discretion of the DOU, the applicant shall enter into and record an Agreement for Maintenance of Drainage with the City, in a form acceptable to the City Attorney.</td>
<td>Typical. Off-site surface drainage.</td>
</tr>
<tr>
<td>D14</td>
<td>All lots shall be graded so that drainage does not cross property lines or private drainage easements shall be dedicated. The project shall be graded to overland release to the detention/water quality basin.</td>
<td>Typical. On-site surface drainage between parcels and lots.</td>
</tr>
<tr>
<td>D15</td>
<td>Per City Code, the Subdivider may not develop the project in any way that obstructs, impedes, or interferes with the natural flow of existing off-site drainage that crosses the property. Furthermore, all lots shall be graded so that drainage does not cross lot or property lines. The project shall construct the required public and/or private infrastructure to handle runoff to the satisfaction of the DOU. If private infrastructure is constructed to handle runoff, the applicant shall dedicate the required private easements and/or, at the discretion of the DOU, the applicant shall enter into and record an Agreement for Maintenance of Drainage with the City, in a form acceptable to the City Attorney.</td>
<td>Subdivision alternative. Addresses both on-site and off-site surface drainage.</td>
</tr>
</tbody>
</table>

### Misc.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>D16</td>
<td>No more than 6,000 square feet is allowed to sheet drain over a public sidewalk. If the area is larger than 6,000 square feet then an on-site surface drainage system is required and shall be connected to the street drainage system by means of a storm drain service tap. All on-site systems shall be designed to the standard for private storm drainage systems (per the latest edition of: Frontage and On-Site Improvement Procedures Manual).</td>
<td>Typical for infill projects with greater than 6,000 square feet of pavement area. Bold section is for infill projects in an area that has had a master drainage study performed. Typical for Commercial projects.</td>
</tr>
<tr>
<td>D17</td>
<td>A seepage study will be required and shall be prepared by a registered engineer. The study shall identify and recommend solutions to groundwater related problems that may occur within both the subdivision lots and the public streets. Appropriate facilities shall be constructed to alleviate those problems.</td>
<td>Situations where high groundwater conditions exist that may pose problems for seepage. Developer may need to install drains or other devices to control surface seepage.</td>
</tr>
<tr>
<td>D18</td>
<td>The applicant shall annex to the existing district for Basin ___ and/or pay the fair share contribution of common drainage facilities (pump station, detention basin, trunk lines, etc.) for Basin ___.</td>
<td>Project located in area where fair share drainage contributions required.</td>
</tr>
<tr>
<td>D19</td>
<td>Surface and subsurface drainage facilities located within alleys shall be private</td>
<td>Alternative to PS5 and PS7 Subdivisions with</td>
</tr>
</tbody>
</table>
facilities maintained by a homeowners association, business association or a privately funded maintenance district. Private easements shall be dedicated for these facilities.

| D20 | Construct storm drain lines from (STREET) to the existing drainage canal adjacent to (STREET OR OTHER). The construction shall be to the satisfaction of the DOU. The applicant is responsible for obtaining all necessary permits, easements and approvals from federal, state and local agencies, and private landowners for the construction of this drain line. The easements shall be granted to the City, at no cost to the City, and shall be to the satisfaction of the DOU. |
|     | Situations where a drain line needs to be installed or extended. |

| D21 | All on-site drainage systems shall be designed to the standard for private storm drainage systems (per the latest edition of: Frontage and On-Site Improvement Procedures Manual, which may be obtained from the City’s Community Development Department at 300 Richards Blvd., 3rd floor). |
|     | Situations where a development will have under sized streets and drainage systems are private or commercial development. |

| D22 | The applicant shall obtain and record private easements, as needed, on the parcel to the ___ for storm drain service to Parcel ___. |
|     | Situations where applicant will need to connect to adjacent property for storm drainage. |

## Grading

| GR1 | A grading plan showing existing and proposed elevations is required. All lots and/or parcels shall be graded so that drainage does not cross property lines or private drainage easements shall be dedicated. Adjacent off-site topography shall also be shown to the extent necessary to determine impacts to existing surface drainage paths. At a minimum, one-foot off-site contours within 100 feet of the project boundary are required (per Plate 2, page 3-7 of the City Design and Procedures Manual). No grading shall occur until the grading plan has been reviewed and approved by the DOU. |
|     | Typical for large developments where off-site contours can be determined easily. |

| GR2 | A grading plan showing existing and proposed elevations is required. Adjacent off-site topography shall also be shown to the extent necessary to determine impacts to existing surface drainage paths. No grading shall occur until the grading plan has been reviewed and approved by the DOU. |
|     | Typical for smaller infill type developments. |

| GR3 | The applicant shall provide for the rough grading of public maintained parks. The rough grading shall be to the satisfaction of the DOU and Parks. |
|     | Site with public parks. |

## Water Quality

### Typical

| WQ1 | This project will disturb more than one acre of land or is part of large common development; therefore, the project is required to comply with the State’s “Construction General Permit” (Order 2009-0009 DWQ or most current). To comply with the State Permit, the applicant must file a Notice of Intent (NOI) through the State’s Storm Water Multiple Application and Report Tracking System (SMARTS), located online at [http://smarts.waterboards.ca.gov/smarts/faces/SwSmartsLogin.jsp](http://smarts.waterboards.ca.gov/smarts/faces/SwSmartsLogin.jsp). A valid WDID number must be obtained and provided to the DOU prior to the issuance of any grading permits. |
|     | Typical. Project area ≥ 1 acre |

| WQ2 | This project is less than 1 acre in size; therefore, the project is not required to comply with the State “NPDES General Permit for Stormwater Discharges Associated with Construction Activity” (State Permit) and prepare a Stormwater Pollution Prevention Plan (SWPPP) prior to construction. The applicant, however, must comply with the City of Sacramento's Grading, Erosion and Sediment Control Ordinance. This ordinance requires the applicant to show erosion and sediment control methods on the subdivision improvement plans. |
|     | Project area < 1 acre |
These plans shall also show the methods to control urban runoff pollution from the project site during construction.

**WQ3** The applicant must comply with the City of Sacramento's Grading, Erosion and Sediment Control Ordinance. This ordinance requires the applicant to show erosion and sediment control methods on the subdivision improvement plans. These plans shall also show the methods to control urban runoff pollution from the project site during construction.

**WQ4** The applicant must comply with the City of Sacramento's Grading, Erosion and Sediment Control Ordinance. This ordinance requires the applicant to prepare erosion and sediment control plans for both during and after construction of the proposed project, prepare preliminary and final grading plans, and prepare plans to control urban runoff pollution from the project site during construction.

### Areas Served by a Regional Water Quality Control Facility

**WQ5** Post construction (permanent), stormwater quality control measures shall be incorporated into the development to minimize the increase of urban runoff pollution caused by development of the area. Since the project is in an area served by an existing regional water quality control facility, only source control measures are required. Improvement plans must include the source controls measures selected for the site. Refer to “Stormwater Quality Design Manual for the Sacramento and South Placer Regions (May 2007)” Chapter 4 for appropriate source control measures.

**WQ6** Post construction, stormwater quality control measures shall be incorporated into the development to minimize the increase of urban runoff pollution caused by development of the area. Since the project is served by an existing regional water quality control facility, only source control measures are required. Specific source controls are required for (1) Storm drain inlet, (2) vehicle/equipment wash areas, and (3) waste management areas. Improvement plans must include the source controls measures selected for the site. Refer to “Stormwater Quality Design Manual for the Sacramento and South Placer Regions (May 2007)” Chapter 4 for appropriate source control measures.

**WQ7** Post construction, stormwater quality control measures shall be incorporated into the development to minimize the increase of urban runoff pollution caused by development of the area. Since the project is served by an existing regional water quality control facility, only source control measures are required. Within the proposed multi-family residential development, specific source controls are required for (1) Storm drain inlet, (2) vehicle/equipment wash areas, and (3) waste management areas. Improvement plans must include the source controls measures selected for the site. Refer to the latest edition of the “Stormwater Quality Design Manual for the Sacramento and South Placer Regions (May 2007)” Chapter 4 for appropriate source control measures.

**WQ8** Post construction, stormwater quality control measures shall be incorporated into the development to minimize the increase of urban runoff pollution caused by development of the area. Since the project is served by an existing regional water quality control facility, only source control measures are required. Specific source controls are required for (1) vehicle and equipment fueling areas, (2) loading/unloading areas, (3) outdoor storage areas, (4) outdoor work areas, (5) vehicle/equipment wash, repair and maintenance areas, (6) waste management areas and (7) Storm drain inlet (markings). Improvement plans must include the source controls measures selected for the site. Refer to the latest edition of the “Stormwater Quality Design Manual for the Sacramento and South Placer Regions (May 2007)” for appropriate source control measures.
### Areas Not Served by Regional Water Quality Control Facility

| WQ9 | Post construction, stormwater quality control measures shall be incorporated into the development to minimize the increase of urban runoff pollution caused by development of the area. Since the project is not served by an existing regional water quality control facility, only source control measures are required. For parking lots, specific source controls are required for waste management areas and storm drain inlets. Improvement plans must include the source controls measures selected for the site. Refer to the latest edition of the “Stormwater Quality Design Manual for the Sacramento and South Placer Regions (May 2007)” Chapter 4 for appropriate source control measures. |

| WQ10 | Post construction, stormwater quality control measures shall be incorporated into the development to minimize the increase of urban runoff pollution caused by development of the area. Since the project is not served by an existing regional water quality control facility, both source control and on-site treatment control measures (e.g., stormwater planters, detention basin, infiltration basin and/or trench, media filters (Austin Sand Filter), multi-functional drainage corridors, vegetated filter strips and/or swales, and proprietary devices) are required. A maintenance agreement is required for all on-site treatment control measures. Contact DOU for a list of accepted proprietary devices if considered for treatment control. Specific source controls are required for (1) vehicle and equipment fueling areas, (2) loading/unloading areas, (3) outdoor storage areas, (4) outdoor work areas, (5) vehicle/equipment wash, repair and maintenance areas, (6) waste management areas and (7) Storm drain inlet (markings). Improvement plans must include the source controls and on-site treatment control measures selected for the site. Refer to the latest edition of the “Stormwater Quality Design Manual for the Sacramento and South Placer Regions (May 2007)” for appropriate source control measures. Runoff reduction measures (e.g. porous pavement) are optional control measures. Refer to the Runoff Reduction Credit Worksheet in the above Manual for porous pavement design. |

| WQ11 | Post construction, stormwater quality control measures shall be incorporated into the development to minimize the increase of urban runoff pollution caused by development of the area. Since the project is not served by a regional water quality control facility, both source control and on-site treatment control measures (e.g. flow-through stormwater planters, detention basin, media filters (Austin Sand Filter), vegetated swales, and proprietary devices) are required. A maintenance agreement is required for all on-site treatment control measures. Contact DOU for a list of accepted proprietary devices if considered for treatment control. Specific source controls are required for (1) vehicle and equipment fueling areas, (2) loading/unloading areas, (3) outdoor storage areas, (4) outdoor work areas, (5) vehicle/equipment wash, repair and maintenance areas, (6) waste management areas and (7) storm drain inlet (markings). Improvement plans must include the source controls and on-site treatment control measures selected for the site. Refer to Stormwater Quality Design Manual for the Sacramento and South Placer Regions (May 2007)” for appropriate source control measures. |

### Areas in the Combined Sewer System (CSS)

| WQ12 | This project is located in the area of the Combined Sewer System (CSS). Therefore, the construction activities of this project are not covered under the State “NPDES General Permit for Stormwater Discharges Associated with Construction Activity” (General Permit). The applicant, however, must comply No NPDES Permit required but comply with Erosion and Sediment Control Ordinance |

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**Areas served by a Regional Water Quality Control Facility.**

- **(Parking lots ≥ 1 acre)**

**Areas not served by a Regional Water Quality Control Facility.**

- **Single-Family Residential** with gross area ≥ 20 acres, Multi-family with gross area ≥ 1 acre, Industrial/Commercial with impervious area, including rooftops, ≥ 1 acre) Excludes auto repair shops and retail gasoline outlets. Porous Pavement Detention not allowed for single-family residential.

- **Parking lots > 1 acre**

- **Multi-Family Residential** with gross area ≥ 20 acres, including rooftops, ≥ 1 acre) Excludes auto repair shops and retail gasoline outlets. Porous Pavement Detention not allowed for single-family residential.

- **Retail Gasoline** outlets. Porous Pavement Detention not allowed for single-family residential.

- **Auto Repair Shops and Retail Gasoline Outlets** with impervious area, including rooftops, ≥ 1 acre) Excludes auto repair shops and retail gasoline outlets. Porous Pavement Detention not allowed for single-family residential.

- **Industrial/Commercial** with gross area ≥ 20 acres, including rooftops, ≥ 1 acre) Excludes auto repair shops and retail gasoline outlets. Porous Pavement Detention not allowed for single-family residential.

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**Note:** The use of stormwater quality control measures is determined by the type of area served by the Regional Water Quality Control Facility. For areas not served by a Regional Water Quality Control Facility, both source control and on-site treatment control measures are required. For areas served by a Regional Water Quality Control Facility, only source control measures are required. The specific source controls and on-site treatment control measures selected for the site will be determined by the project location and the type of activities occurring on the site. For more information, refer to the latest edition of the Stormwater Quality Design Manual for the Sacramento and South Placer Regions (May 2007).
with the City of Sacramento's Grading, Erosion and Sediment Control Ordinance. This ordinance requires the applicant to show erosion and sediment control methods on the subdivision improvement plans. These plans shall also show the methods to control urban runoff pollution from the project site during construction.

| WQ13 | This project is located in the area of the Combined Sewer System (CSS). The applicant is required to implement source control to prevent runoff pollution. The applicant is encouraged to use proper site design to reduce runoff volume. Refer to “Stormwater Quality Design Manual for the Sacramento and South Placer Regions (May 2007)”Chapter 4 for appropriate source control measures and Chapter 5 for appropriate runoff reduction control measures. |
| WQ14 | The applicant must determine if they are required to obtain the State “NPDES General Permit for Stormwater Discharges Associated with Industrial Activity”. Applicant shall submit the determination to the DOU for approval. The submittal must include the applicable Standard Industrial Classification (SIC) code(s), which describe the business activities that will be occurring at the facility. |
| WQ15 | Water Quality Basins should be designed in accordance with Stormwater Quality Design Manual for the Sacramento and South Placer Regions (May 2007). Provide a financing mechanism acceptable to the City for the maintenance of the landscaping and irrigation within Lots __ and __ (e.g. create a maintenance district, annex into an existing landscape maintenance district, etc.). Acceptance of the required landscaping, irrigation, drainage structures, and other features (Detention/Water Quality Facility) by the City into the proposed financing mechanism shall be coordinated with the Development Services Department (Special Districts); Parks Planning, Design, & Development Department; and the DOU. The developer shall maintain the Detention/Water Quality Facility for a period of two (2) years or until acceptance by the City into the District, whichever is less. The two-year period shall begin following the issuance of a notice of completion by the City for the Water Quality Facility. At the time of acceptance by the City, the developer shall remove any sediment or debris that has accumulated prior to acceptance. |
| WQ16 | The applicant is encouraged to consider Low Impact Development (LID) strategy for the site design and utilize LID practices (i.e. stormwater planters) for stormwater treatment. The applicant can obtain LID runoff reduction credits following the guidance in the Stormwater Quality Design Manual. LID runoff reduction will reduce the required treatment volume which could potentially reduce the surface area requirements for the stormwater treatment measures. Contact City of Sacramento Utilities Department Stormwater Program (808-1449) if you have additional questions. |
| RB5 | Outdoor recyclable material shall not be exposed to (1) wet weather in a manner that results, or could result, in contaminated runoff leaving the site and entering into the City’s storm drains, or (2) process water (irrigation or operation water), other than water used for dust suppression in accordance with the previously stated third City Utilities condition. |
| RB6 | Outdoor containers used for recyclable materials should not be stored adjacent to storm drainage inlets. The storm drainage inlets on site should be clearly marked, protected from polluted runoff and inspected on a regular basis. |
4C. Summary of Building/Grading Permits Approved – Private Development Sites
# Summary of Building/Grading Permits

## Approved Private Development Sites

(07/01/15 - 06/30/16)

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Improvement Plan Approval</th>
<th>Building Permit Issuance</th>
<th>ESC Plan Approval</th>
<th>ESC Notes</th>
<th>WDID Number*</th>
</tr>
</thead>
<tbody>
<tr>
<td>17TH ST, 1801</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>N/A</td>
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<tr>
<td>24TH AVE, 8333</td>
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</tr>
<tr>
<td>24TH ST, 6561, 6563, 6565</td>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>N/A</td>
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<td>24TH ST, 7351</td>
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<td></td>
<td></td>
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</tr>
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<td>65TH ST, 1817</td>
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<td>✓</td>
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</tr>
<tr>
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<td>FLORIN PERKINS RD, 4600 (Phase II)</td>
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<tr>
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<tr>
<td>NORTHWEST LAND PARK- PHASE 2</td>
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<tr>
<td>PARKBRIDGE - VILLAGE 1**</td>
<td></td>
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<tr>
<td>R ST, 2820</td>
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<td>ROSE ARBOR DR, 2001</td>
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<tr>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>STOCKTON BLVD, 6010 (LOTUS CASINO)</td>
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</tr>
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<td>TOWNSHIP 9**</td>
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<tr>
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<td>✓</td>
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</tr>
</tbody>
</table>

**TOTAL NUMBER OF PROJECTS** = 22  
**TOTAL NUMBER OF ESC PLANS APPROVED** = 22  
**TOTAL NUMBER WITH ESC NOTES** = 22  
**TOTAL NUMBER OF WDID/SWPPPS OBTAINED** = 12

* N/A denotes projects under 1 acre and/or discharge to the City’s combined sewer system and thus are not required to be covered under the States construction general permit.

** Off-site improvements without a building permit. These projects are for street improvements only.
4D. Summary of Private Development Sites Inspected, Map of Violations and Sample Inspection Form
Summary of Stormwater Construction Inspections
Private Development Sites Inspected
(07/01/15 - 06/30/16)

<table>
<thead>
<tr>
<th>SITE NAME</th>
<th>Priority as of 06/30/16</th>
<th>Total Number of Inspections</th>
<th>Average per Month</th>
<th>Verbal Warnings</th>
<th>Notices to Comply</th>
<th>Stop Work Orders</th>
<th>Fines</th>
</tr>
</thead>
<tbody>
<tr>
<td>17TH ST, 1801</td>
<td>Moderate</td>
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<td>1.20</td>
<td></td>
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<tr>
<td>ACME ACRES (LOTS 101-108, 111-116, 137-144)</td>
<td>Inactive/St</td>
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<tr>
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<td>1.00</td>
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</tr>
<tr>
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<td>4.00</td>
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<td>CARLSON DR, 5499</td>
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<tr>
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<th>SITE NAME</th>
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<tr>
<td>ROSE ARBOR DR, 2001</td>
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<tr>
<td>SACRAMENTO RAILYARDS REHAB GRADING</td>
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</table>

^ Sites with "Low" priorities are either sites where disturbed acreage is less than one acre, or sites where disturbed acreage is one acre or more but where construction activity is very limited in area and scope or are located in the City’s combined sewer system.

* Inspection frequency is in compliance. Project either did not start construction immediately and/or its frequency was set at moderate or low initially then frequency was changed to a higher level depending on whether construction started or project had significant violations to be placed on a higher frequency inspection.

** Project was inactive/stable for an extended period of time and construction began during the latter part of the fiscal year.
<table>
<thead>
<tr>
<th>SITE NAME</th>
<th>Priority as of 06/30/16</th>
<th>Total Number of Inspections</th>
<th>Average per Month</th>
<th>Verbal Warnings</th>
<th>Notices to Comply</th>
<th>Stop Work Orders</th>
<th>Fines</th>
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<td>T ST, 2014</td>
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<tr>
<td>The Creamery - Phase 1 &amp; 2*</td>
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<td>0.30</td>
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<td>2</td>
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<tr>
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<td>Township 9</td>
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<td>WELSH*</td>
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<td>WEST STOCKTON BLVD, 7640 (Phase II)</td>
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<td>WICKFORD SQUARE</td>
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</table>

| TOTALS                          | 876                     | 39                          | 40                |                 |                   |                  |       |

**Priority Key:**

**Total Sites:** 130
**Total Fines:** $0.00

**High:** High threat to water quality.

**Moderate:** Moderate threat to water quality.

**Low:** see note below.

**Inactive/St:** sites where construction activity has stopped for a significant amount of time and where threats to water quality have been stabilized.

^ Sites with "Low" priorities are either sites where disturbed acreage is less than one acre, or sites where disturbed acreage is one acre or more but where construction activity is very limited in area and scope or are located in the City's combined sewer system.

* Inspection frequency is in compliance. Project either did not start construction immediately and/or its frequency was set at moderate or low initially then frequency was changed to a higher level depending on whether construction started or project had significant violations to be placed on a higher frequency inspection.

** Project was inactive/stable for an extended period of time and construction began during the latter part of the fiscal year.
## Project Information

<table>
<thead>
<tr>
<th>Site Name / Location</th>
<th></th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>Owner / Developer</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Developer Contact</td>
<td>Date</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inspector:</th>
<th>Inspection Type</th>
<th>Routine - Drive By - Complaint - Follow-Up</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Today's Onsite Contact</th>
<th>Weather</th>
<th>Clear - Cloudy - Rain</th>
</tr>
</thead>
</table>

## Inspection Checklist

<table>
<thead>
<tr>
<th>Is the ESC Plan and/or SWPPP on site? (Note applicable plan)</th>
<th>N/A</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Are all operational storm drain inlets protected from sediment inflow?</td>
<td>N/A</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Is all sediment being contained on site?</td>
<td>N/A</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Are all significant cut or fill slopes stabilized?</td>
<td>N/A</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Are vegetated areas being maintained, irrigated, fertilized, seeded or mulched?</td>
<td>N/A</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Are locations of soil stock piles or construction materials in approved locations?</td>
<td>N/A</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Is the construction entrance stabilized?</td>
<td>N/A</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Are on-site traffic routes, parking and storage areas restricted to designated areas?</td>
<td>N/A</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Are general housekeeping practices being followed by the contractor and subcontractors?</td>
<td>N/A</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Are all BMP's installed correctly and being properly maintained?</td>
<td>N/A</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Does the contractor have inspection and maintenance records?</td>
<td>N/A</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

For any "no" answers, describe any corrective action required and when it is to be completed below:

Follow-up (as necessary). Indicate if complied with required corrective action or any further action needed:

Verbal Warning | Notice to Comply | Stop Work Order | Time to Comply |
---|---|---|---|
Discharge | Inadequate BMPs | Lack of Maintenance | Non - Filer |
Fine | Amount | Date Due |
4E. NPDES Annual Training Construction/New Development Training – Sign-in Sheets and Presentations
# 2016 Stormwater NPDES Training Sign-In Sheet
Planning Department Training
April 19, 2016

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Signatures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marco Gonzalez</td>
<td>Asst Plan.</td>
<td></td>
</tr>
<tr>
<td>Luis Sanchez</td>
<td>Senior Architect</td>
<td></td>
</tr>
<tr>
<td>David Hung</td>
<td>Associate Plan.</td>
<td></td>
</tr>
<tr>
<td>Lindsey Alagozian</td>
<td>Senior Planner</td>
<td></td>
</tr>
<tr>
<td>Antonio Arbizug</td>
<td>Senior Plan.</td>
<td></td>
</tr>
<tr>
<td>Jay Patterson</td>
<td>Principal Planner</td>
<td></td>
</tr>
<tr>
<td>Teresa Haerzig</td>
<td>Assoc Plan.</td>
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</tr>
<tr>
<td>Helen Selph</td>
<td>Assoc. Planner</td>
<td></td>
</tr>
<tr>
<td>Sandra L Page</td>
<td>Senior Planner</td>
<td></td>
</tr>
</tbody>
</table>

Total in Attendance =
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Signatures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Garrett Norman</td>
<td>Assistant Planner</td>
<td></td>
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<tr>
<td>Scott Johnson</td>
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<tr>
<td>Stacia Cosgrove</td>
<td>Principal Planner</td>
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</tr>
<tr>
<td>Michael Hamilton</td>
<td>Assistant Planner</td>
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</tr>
<tr>
<td>Matt Sites</td>
<td>URBAN DESIGN STAFF</td>
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<tr>
<td>Daniel Abbey</td>
<td>Planner</td>
<td></td>
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<tr>
<td>Robert Williams</td>
<td>Planner</td>
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</tbody>
</table>

Total in Attendance =
## Development Review Training

04/05/2016

**Sign-in sheet**

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neal Joyce</td>
<td>Senior Engineer</td>
<td><a href="mailto:njoyce@cityofsacramento.org">njoyce@cityofsacramento.org</a></td>
</tr>
<tr>
<td>Edgar Bazoa</td>
<td>Hydro Tech</td>
<td><a href="mailto:ebazoa@cityofsacramento.org">ebazoa@cityofsacramento.org</a></td>
</tr>
<tr>
<td>Math Chase</td>
<td>DB Tech</td>
<td><a href="mailto:mc@cityofsacramento.org">mc@cityofsacramento.org</a></td>
</tr>
<tr>
<td>Mark Dilley</td>
<td>Engineer</td>
<td><a href="mailto:mdilley@cityofsacramento.org">mdilley@cityofsacramento.org</a></td>
</tr>
<tr>
<td>Drew Magen</td>
<td>DST I</td>
<td><a href="mailto:dmagen@cityofsacramento.org">dmagen@cityofsacramento.org</a></td>
</tr>
<tr>
<td>Kelly Sherfey</td>
<td>Program Analyst</td>
<td><a href="mailto:kscherfey@cityofsacramento.org">kscherfey@cityofsacramento.org</a></td>
</tr>
<tr>
<td>Inthira Mendoza</td>
<td>Senior Engineer</td>
<td><a href="mailto:imendoza@cityofsacramento.org">imendoza@cityofsacramento.org</a></td>
</tr>
<tr>
<td>Yancis Rios</td>
<td>Assistant Engr.</td>
<td><a href="mailto:yr@cityofsacramento.org">yr@cityofsacramento.org</a></td>
</tr>
<tr>
<td>Jesus Reyes</td>
<td>Engr.</td>
<td><a href="mailto:jreyes@cityofsacramento.org">jreyes@cityofsacramento.org</a></td>
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</table>
## Public Works Training

### 04/27/2016

**Sign-in sheet**

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cecilynn Foote</td>
<td>Associate Civil Engineer</td>
<td><a href="mailto:jwerner@cityofsacramento.org">jwerner@cityofsacramento.org</a></td>
</tr>
<tr>
<td>Josh Werner</td>
<td>Assistant Engineer</td>
<td></td>
</tr>
<tr>
<td>Zubair Amawi</td>
<td>Associate Civil Engineer</td>
<td><a href="mailto:awall@cityofsacramento.org">awall@cityofsacramento.org</a></td>
</tr>
<tr>
<td>OFELIA AVALOS</td>
<td>Associate Civil Engineer</td>
<td><a href="mailto:oavalos@cityofsacramento.org">oavalos@cityofsacramento.org</a></td>
</tr>
<tr>
<td>Philip Mullet</td>
<td>Senior Engineer</td>
<td>pmullet@cityof...</td>
</tr>
<tr>
<td>Adam Randolph</td>
<td>Senior Engineer</td>
<td>a randolph @...</td>
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<table>
<thead>
<tr>
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## Parks Training

### 05/04/2016

**Sign-in sheet**

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<tbody>
<tr>
<td>Calvin G. Hayden</td>
<td>Manager, PPS</td>
<td><a href="mailto:ghyden@cityofsacramento.org">ghyden@cityofsacramento.org</a></td>
</tr>
<tr>
<td>Jason Wiseman</td>
<td>Landscape Architect</td>
<td><a href="mailto:jwiseman@cityofsacramento.org">jwiseman@cityofsacramento.org</a></td>
</tr>
<tr>
<td>Jeff Nitterer</td>
<td>Landscape Architect</td>
<td><a href="mailto:jnitterer@cityofsacramento.org">jnitterer@cityofsacramento.org</a></td>
</tr>
<tr>
<td>Tin-Wah Wong</td>
<td>Landscape Architect</td>
<td><a href="mailto:tinwah@cityofsacramento.org">tinwah@cityofsacramento.org</a></td>
</tr>
<tr>
<td>Elizabeth Gumma</td>
<td>PM - CDD</td>
<td><a href="mailto:egumma@cityofsacramento.org">egumma@cityofsacramento.org</a></td>
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# Public Works Inspectors Training

05/10/2016

Sign-in sheet

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Tom Fitzpatrick</td>
<td>CST 1097</td>
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</tr>
<tr>
<td>Steven Olesky</td>
<td>Inspector</td>
<td></td>
</tr>
<tr>
<td>Jeff Vanoy</td>
<td>Inspector</td>
<td></td>
</tr>
<tr>
<td>Jason Vanderleek</td>
<td>Crew Insp</td>
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</tr>
<tr>
<td>Mike Colasanti</td>
<td>Inspector</td>
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</tr>
<tr>
<td>Tim Sharp</td>
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<tr>
<td>George Davis</td>
<td>Inspector</td>
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<tr>
<td>Joe Hermin</td>
<td>Inspector</td>
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</tr>
<tr>
<td>Ryan Morris</td>
<td>Inspector</td>
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<tr>
<td>Jason Clement</td>
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## Public Works Inspectors Training

05/10/2016

Sign-in sheet

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matt Innes</td>
<td>Traffic Inspector II</td>
<td><a href="mailto:mattnicaso@cityofsea.org">mattnicaso@cityofsea.org</a></td>
</tr>
<tr>
<td>Debbie Billman</td>
<td>Geo. Tech</td>
<td><a href="mailto:debbillman@cityofsea.org">debbillman@cityofsea.org</a></td>
</tr>
<tr>
<td>Nader Kamal</td>
<td>Supervisor</td>
<td><a href="mailto:nkaragi@cityofsea.org">nkaragi@cityofsea.org</a></td>
</tr>
<tr>
<td>Robert Ruff</td>
<td>Supervisor</td>
<td><a href="mailto:rruff@cityofsea.org">rruff@cityofsea.org</a></td>
</tr>
<tr>
<td>Name</td>
<td>Title</td>
<td>Email</td>
</tr>
<tr>
<td>------------------</td>
<td>---------------------</td>
<td>-------------------------------------------</td>
</tr>
<tr>
<td>Emmerson Zapata</td>
<td>Junior Engineer</td>
<td><a href="mailto:Ezapata@cityofcarmel.org">Ezapata@cityofcarmel.org</a></td>
</tr>
<tr>
<td>Cristina Luperiu</td>
<td>Program Specialist</td>
<td><a href="mailto:clluperiu@cityofcarmel.org">clluperiu@cityofcarmel.org</a></td>
</tr>
<tr>
<td>Renee Grave</td>
<td></td>
<td><a href="mailto:rgrave@cityofcarmel.org">rgrave@cityofcarmel.org</a></td>
</tr>
<tr>
<td>JP Williams</td>
<td>Senior Engineer</td>
<td><a href="mailto:sjpwilliams@cityofcarmel.org">sjpwilliams@cityofcarmel.org</a></td>
</tr>
<tr>
<td>Alfonso Velasquez</td>
<td>Tech</td>
<td><a href="mailto:ovelasquez@cityofcarmel.org">ovelasquez@cityofcarmel.org</a></td>
</tr>
<tr>
<td>Calvin Yee</td>
<td></td>
<td><a href="mailto:cvlee@cityofcarmel.org">cvlee@cityofcarmel.org</a></td>
</tr>
<tr>
<td>Sonia Lopez</td>
<td>Associate Engineer</td>
<td><a href="mailto:sllopez@cityofcarmel.org">sllopez@cityofcarmel.org</a></td>
</tr>
</tbody>
</table>
DOU PMs Training

06/07/2016

Sign-in sheet

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Email</th>
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Development Review Training:

04/05/2016

Topics for discussion:

1) New Dev:
   - New Region-wide Permit: timing, LID and HMP standards, major changes
   - Prop 84 CSUS LID Project: project status, types of BMPs, project challenges, budget

2) Construction

3) Any project review questions?
Stormwater Quality Annual Training
Planning Department

April 19, 2016
Clean water is a vital resource
Development can negatively impact our waters

- If we don’t ensure that each project mitigates their impacts to our natural resource
- If we don’t require the development community to comply with the State, County, and City regulations
- If we don’t implement new and existing methods to minimize the impacts to our natural resources
Pollutants from development can:

- Contaminate our drinking water (both surface and groundwater supply)
- Contaminant our food supply (Crops, aquatic, meat)
- Degrade the quality of our recreational bodies of water (Oceans, Rivers, Lakes etc.)
• Limited Term renewal (18 months) in April, 2015
• Next Permit: Region-wide, adopted June 2016
• Water Quality Based Permit
• Requires Reasonable Assurance Analysis (RAA)
• Stormwater Management Plan (SWMP) within 18 months
• Revised Design Manual with SWMP
Planning and New Development Element Permit Requirements

- Source Controls
- Treatment Controls
- Hydromodification Mitigation
- Low Impact Development
- Retrofit?
STORMWATER QUALITY DESIGN MANUAL

Integrated Design Solutions for Urban Development
Protecting Our Water Quality

City of Citrus Heights
City of Elk Grove
City of Folsom
City of Galt

City of Rancho Cordova
City of Sacramento
County of Sacramento
LID @ CSUS

(Thanks to CSUS OWP for slides and photos)
Project Collaboration

State Water Resources Control Board (Proposition 84 Stormwater Grant)

City of Sacramento

Office of Water Programs @ Sacramento State/UEI

Sacramento State Facilities Management

Design and Construction Contractors

- Project Management
- Design Oversight
- Construction Oversight
- Stormwater Monitoring
- Education and Outreach
Project Funding

✓ State Water Board Prop. 84 Stormwater Grant

✓ Objectives:
  ◦ Prevent stormwater contamination of water bodies
  ◦ Meet stormwater permit requirements
  ◦ Implement LID
  ◦ Monitor performance
  ◦ Provide education and outreach

✓ Project Total – $3.3M
  • Prop 84 – $2.6M
  • Local Match – $0.7M
Site & BMP Selection: Bang-for-the-Buck

✓ Large Drainage Areas
  ◦ Parking lots, streets, rooftops, and existing landscaping

✓ Maximize Infiltration
  ◦ Replace less pervious with more pervious

✓ Existing Infrastructure
  ◦ Tie into existing grades
  ◦ Use existing storm drain system for overflow
  ◦ Minimize need for new irrigation infrastructure

✓ “Smarter” Vegetation
  ◦ Water-wise
  ◦ Drought- and inundation-tolerant
Site & BMP Selection – Parking Lots

- Capture parking lot runoff
- Replace impervious parking stalls with pervious planters
- Build planters around existing DIs to address overflow
- Plant water-wise vegetation

[Map showing proposed bioretention planters and existing drain inlets with dimensions 1.8 Acres and 1.6 Acres]
Site & BMP Selection – Streets

- Capture curb & gutter runoff
- Cut curbs to direct runoff to pervious areas
- Replace turf with amended soils and water-wise plants
Site & BMP Selection – Rooftops

- Capture rooftop runoff
- Disconnect roof drains and redirect to rain gardens
- Use water-wise vegetation

Calaveras Hall
Site & BMP Selection – Existing Landscape

- Capture runoff from impervious surface and turf
- Amend soils to enhance infiltration
- Replace turf with water-wise vegetation
- Regrade to create raised inlet
Design Challenges

✓ Conflicts with other infrastructure
  ◦ Sanitary sewer, gas, electric, light standards, trees
Design Challenges

✓ Interactions with buildings
  ◦ Avoid saturating soils around foundations
  ◦ Tapping into building drainage systems
    ➢ May require architect or mechanical engineer
    ➢ Some may be inaccessible
Design Challenges

✓ Compatibility with campus master plan
Construction Challenges

✓ Unanticipated utilities and tree roots
  ◦ Reduced footprints
  ◦ Changed geometry
  ◦ Broken irrigation lines (excavations flooded)

✓ Contractors unfamiliar with intent
  ◦ Raised inlets should be raised
  ◦ Keep heavy equipment off excavations
  ◦ Use spec’d soils (chosen for treatment capabilities)

No!!!
Yes!
No!!!
Construction – Parking Lots 7 & 10

✓ Bioretention Planters & Infiltrating Bioswale
Construction – Jed Smith Drive

✓ Porous pavement and rain gardens
Construction – Calaveras Hall

✓ Roof drain disconnects, rain gardens, & porous pavement
Construction – Library Green & Campus Grove

✓ Raised inlets, rain gardens, & porous pavement
Construction – College Town Drive

✓ Curb cuts and rain gardens
Plants
Existing Performance

- Performing as designed
  - Runoff entering BMPs
  - Temporary ponding
  - Infiltrating within 48 hrs
  - Minimum overflow & discharge

PP video
Monitoring & Reporting

- Measure Flows
- Analyze Water Quality (sediment, pesticides, metals)
- Data Evaluation
Education and Outreach

Low Impact Development (LID)
Stormwater Management

Parking Lot 7 South Bioretention Planter

A bioretention planter is a type of stormwater management practice that uses vegetation and soil to absorb and filter stormwater. This helps to reduce the amount of runoff that enters nearby streams and bodies of water, improving water quality and mitigating flood risk. The planтер is designed to enhance the natural environment by providing habitat for local wildlife.

Sustainability to boost water collecting efforts with drain
LID project plans to redirect rain from campus to river

A LID project is planned to collect and divert rainwater from the campus to nearby rivers, promoting water conservation and reducing the risk of flooding. This initiative aims to improve the sustainability of the campus by utilizing natural processes to manage water.

Stormwater as a Resource:
Sustainable Projects at Sacramento State

Free Community Lecture & Free Parking
Display Permits (AASCU)
Thursday, February 16, 2016 - 6 p.m.
University Union, Redwood Room

Center for STEM Excellence
Sacramento State
State Regulations

- **Construction General Permit**
  - ALL projects that disturbed more than one acre of land (and/or are part of a large common development) are required to:
    - Obtained the State mandated construction General Permit (WDID number is obtained before construction begins)
    - Prepare and implement a site specific Storm Water Pollutions Prevention Plan (SWPPP) in an effort to prevent the discharge of construction pollutants to our water ways.

- **Industrial General Permit**
  - Certain industries such as metal recyclers, auto dismantlers, concrete recyclers/producers etc., are required to obtain the State’s Industrial General Permit prior to begin any operations. Thus, it is important to coordinate with Humberto Amador when projects like this come for any city approvals.
Contact Info:

Department of Utilities
New Development:
Dalia Fadl
Email: dfadl@cityofsacramento.org
Phone: 916–808–1449

Construction & illegal discharge:
Humberto Amador
Email: hamador@cityofsacramento.org
Phone: 916–808–5411
We just want clean waterways!

For Illegal discharge support contact:
Humberto Amador
916–808–5411
Tara Barretto
916–826–0420
Stormwater Quality Annual Training
Public Works Department

April 27, 2016
Clean water is a vital resource
Pollutants from development can:

- Contaminate our drinking water (both surface and groundwater supply)
- Contaminant our food supply (Crops, aquatic, meat)
- Degrade the quality of our recreational bodies of water (Oceans, Rivers, Lakes etc.)
Regulations

Federal – Clean Water Act, Section 402(p)

State – EPA NPDES Regulations, 40 CFR 122

Local – Ordinances (grading, drainage, sewer, etc.)
Sacramento Municipal Stormwater NPDES Permit

- Limited Term renewal (18 months) in April, 2015
- Next Permit: Region-wide, adopted June 2016
- Water Quality Based Permit
- Requires Reasonable Assurance Analysis (RAA)
- Stormwater Management Plan (SWMP) within 18 months
- Revised Design Manual with SWMP
Planning and New Development Element Permit Requirements

- Source Controls
- Treatment Controls
- Hydromodification Mitigation
- Low Impact Development
- Retrofit?
LID @ CSUS

(Thanks to CSUS OWP for slides and photos)
Project Collaboration

State Water Resources Control Board (Proposition 84 Stormwater Grant)

City of Sacramento

Office of Water Programs @ CSUS

CSUS Facilities Management

Design & Construction Contractors

- Project Management
- Design & Construction Oversight
- Stormwater Monitoring
- Education and Outreach
Project Funding

✓ State Water Board  Prop. 84 Stormwater Grant

✓ Objectives:
  ◦ Prevent stormwater contamination of water bodies
  ◦ Meet Stormwater Permit requirements
  ◦ Implement LID (City Standards)
  ◦ Monitor performance
  ◦ Provide education and outreach

✓ Project Total – $3.3M
  • Prop 84 – $2.6M
  • Local Match – $0.7M
Site & BMP Selection: Bang-for-the-Buck

✓ Large Drainage Areas
  ◦ Parking lots, streets, rooftops, and existing landscaping

✓ Maximize Infiltration
  ◦ Replace less pervious with more pervious

✓ Existing Infrastructure
  ◦ Tie into existing grades
  ◦ Use existing storm drain system for overflow
  ◦ Minimize need for new irrigation infrastructure

✓ “Smarter” Vegetation
  ◦ Water-wise
  ◦ Drought- and inundation-tolerant
Campus Layout

- **Library Green & Campus Grove:** Create raised beds and replace existing lawns with rain gardens.
- **Jed Smith Green Street:** Create a green street consisting of curbs, curbed pavement parking, and rain gardens.
- **North End of Parking Lot 7:** Install bioswale, planters, and bioswale.
- **South End of Parking Lot 7:** Install bioswale, planters, and bioswale.
- **Parking Lot 7:** Install bioswale, planters, and bioswale.
- **Parking Lot 10:** Install bioswale, planters, and bioswale.
- **Calaveras Hall:** Disconnect roof drains and direct discharge into new rain gardens.
- **Campus Drive:** Install new rain gardens.
Site & BMP Selection – Parking Lots

- Capture parking lot runoff
- Replace impervious parking stalls with pervious planters
- Build planters around existing DIs to address overflow
- Plant River Friendly landscaping

![Parking Lot Diagram with 1.8 Acres and 1.6 Acres]
Site & BMP Selection – Streets

- Capture curb & gutter runoff
- Cut curbs to direct runoff to pervious areas
- Replace turf with amended soils and River Friendly landscaping

College Town Drive
Site & BMP Selection – Rooftops

- Capture rooftop runoff
- Disconnect roof drains and redirect to rain gardens
- Use River Friendly landscaping
Site & BMP Selection – Existing Landscape

- Capture runoff from impervious surface and turf
- Amend soils to enhance infiltration
- Replace turf with River Friendly landscaping
- Regrade to create raised inlet
Design Challenges

✓ Conflicts with other infrastructure
  ◦ Sanitary sewer, gas, electric, light standards, trees
Design Challenges

✓ Interactions with buildings
  ◦ Avoid saturating soils around foundations
  ◦ Tapping into building drainage systems
    ➢ May require architect or mechanical engineer
    ➢ Some may be inaccessible
Design Challenges

✓ Compatibility with campus master plan
Construction Challenges

✓ Unanticipated utilities and tree roots
  ◦ Reduced footprints
  ◦ Changed geometry
  ◦ Broken irrigation lines (excavations flooded)

✓ Contractors unfamiliar with BMPs
  ◦ Raised inlets should be raised
  ◦ Keep heavy equipment off excavations
  ◦ Use spec’d soils (chosen for treatment capabilities)
Construction – Parking Lots 7 & 10

- Bioretention Planters & Infiltration Swale
Construction – Jed Smith Drive

✓ Porous pavement and rain gardens
Roof drain disconnects, rain gardens, & porous pavement
Construction – Library Green & Campus Grove

✓ Raised inlets, rain gardens, & porous pavement
Construction – College Town Drive

✓ Curb cuts and rain gardens
Plants
Existing Performance

✓ Performing as designed
  ◦ Runoff entering BMPs
  ◦ Infiltrating within 48 hrs
  ◦ Minimum overflow & discharge
Education and Outreach

Low Impact Development (LID) Stormwater Management

Campus Map LID Features

Low Impact Development (LID) Regional Conference

Sustainability to boost water collecting efforts with drain
LID project plans to redirect rain from campus to river

Stormwater as a Resource:
STEM Lecture Series

Free Community Lecture & Free Parking
Display Permits Available (Day of Event)
Thursday, February 18, 2016, 6 p.m.
University Union, Redwood Room
Construction Requirements
Requirements for all projects

- **ALL** projects include a set of Erosion and Sediment Control Plans regardless of size and type.

- For those projects that disturbed one of more acres of land (this includes all linear projects):
  - Obtained the State mandated construction General Permit (WDID number is obtained before construction begins).
  - Develop and implement a site specific Storm Water Pollutions Prevention Plan (SWPPP) in an effort to prevent the discharge of construction pollutants to our water ways.
ESC plans
Contact Info:

Department of Utilities
New Development:
Dalia Fadl
Email: dfadl@cityofsacramento.org
Phone: 916–808–1449

Construction & illegal discharge:
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Email: hamador@cityofsacramento.org
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We just want clean waterways!

For Illegal discharge support
contact:
Humberto Amador
916–808–5411
Tara Barretto
916–826–0420
Questions?
Stormwater Quality Annual Training
Parks Department

May 4, 2016
Sacramento Municipal Stormwater NPDES Permit

- Limited Term renewal (18 months) in April, 2015
- Next Permit: Region-wide, adopted June 2016
- Water Quality Based Permit
- Requires Reasonable Assurance Analysis (RAA)
- Stormwater Management Plan (SWMP) within 18 months
- Revised Design Manual with SWMP
Planning and New Development Element Permit Requirements

- Source Controls
- Treatment Controls
- Hydromodification Mitigation
- Low Impact Development
- Retrofit?
STORMWATER QUALITY DESIGN MANUAL

Integrated Design Solutions for Urban Development
Protecting Our Water Quality

City of Citrus Heights
City of Elk Grove
City of Folsom
City of Galt

City of Rancho Cordova
City of Sacramento
County of Sacramento
LID @ CSUS

(Thanks to CSUS OWP for slides and photos)
Campus Layout

Library Green & Campus Grove:
- Create raised beds and replace existing lawns with rain gardens.

Jed Smith Green Street:
- Create a green street consisting of curb cuts, porous pavement, parking, and rain gardens.

North End of Parking Lot 7:
- Install bioswale planters.

South End of Parking Lot 7:
- Install bioswale planters and bioswale.

Calaveras Hall:
- Disconnect roof drains and direct discharge into new rain gardens.

Campus Drive:
- Install new rain gardens.

Parking Lot 10:
- Install bioswale planters.
Site & BMP Selection – Existing Landscape

- Capture runoff from impervious surface and turf
- Amend soils to enhance infiltration
- Replace turf with River Friendly landscaping
- Regrade to create raised inlet
Design Challenges

- Conflicts with other infrastructure
  - Sanitary sewer, gas, electric, light standards, trees

![Diagram showing conflicts with other infrastructure]

- Storm
- Communications
- Electrical
- Water
- Gas (high pressure)
Construction Challenges

- Unanticipated utilities and tree roots
  - Reduced footprints
  - Changed geometry
  - Broken irrigation lines (excavations flooded)

- Contractors unfamiliar with BMPs
  - Raised inlets should be raised
  - Keep heavy equipment off excavations
  - Use spec’d soils (chosen for treatment capabilities)
Construction – Library Green & Campus Grove

✓ Raised inlets, rain gardens, & porous pavement
Plants
Existing Performance

✓ Performing as designed
  ◦ Runoff entering BMPs
  ◦ Infiltrating within 48 hrs
  ◦ Minimum overflow & discharge
Construction Requirements
Requirements for all projects

- **ALL** projects include a set of Erosion and Sediment Control Plans regardless of size and type.

- For those projects that disturbed one of more acres of land (this includes all linear projects):
  - Obtained the State mandated construction General Permit (WDID number is obtained before construction begins)
  - Develop and implement a site specific Storm Water Pollutions Prevention Plan (SWPPP) in an effort to prevent the discharge of construction pollutants to our water ways.
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Email: dfadl@cityofsacramento.org
Phone: 916–808–1449

Construction & illegal discharge:
**Humberto Amador**
Email: hamador@cityofsacramento.org
Phone: 916–808–5411
Clean water is a vital resource
Construction Requirements
Requirements for all projects

- **ALL** projects include a set of Erosion and Sediment Control Plans regardless of size and type.

- For those projects that disturbed one of more acres of land (this includes all linear projects):
  - Obtained the State mandated construction General Permit (WDID number is obtained before construction begins)
  - Develop and implement a site specific Storm Water Pollutions Prevention Plan (SWPPP) in an effort to prevent the discharge of construction pollutants to our water ways.
ESC plans
Proper BMP Implementation

✓ Effective perimeter controls
✓ Adequate construction entrances
✓ Protect discharge points (DIs, creeks, roadside ditches, etc.)
✓ Keep stockpiles in check
Perimeter controls

✓ Effective vs non-effective
Construction Entrances

✓ Adequate vs inadequate
Discharge protection

✓ Bueno vs No Bueno
Stockpiles

✓ What is the problem with them?
LID @ CSUS

(Thanks to CSUS OWP for slides and photos)
Campus Layout

North End of Parking Lot 7:
Install bioswale planters.

South End of Parking Lot 7:
Install bioswale planters and sidewalks.

Jad Smith Green Street:
Create a green street consisting of
curb cuts, porous pavement parking,
and rain gardens.

Library Green & Campus Grove:
Create raised beds and replace existing
trees with rain gardens.

Calaveras Hall:
Disconnect roof drains and direct discharge
into new rain gardens.

Campus Drive:
Install new rain gardens.

Parking Lot 10:
Install bioswale planters.

Student Housing

Parking Lot 1

Sports Fields

College Town Drive

Industrial/Commercial

Residential

Sacramento River (~7 Miles Downstream)

American River Parkway

American River Parkway

State University Drive

Regional

Business/Admin

CPR
Site & BMP Selection – Existing Landscape

ุมCapture runoff from impervious surface and turf
✓ Amend soils to enhance infiltration
✓ Replace turf with River Friendly landscaping
✓ Regrade to create raised inlet
Design Challenges

✓ Conflicts with other infrastructure
  ◦ Sanitary sewer, gas, electric, light standards, trees
Construction Challenges

- Unanticipated utilities and tree roots
  - Reduced footprints
  - Changed geometry
  - Broken irrigation lines (excavations flooded)

- Contractors unfamiliar with BMPs
  - Raised inlets should be raised
  - Keep heavy equipment off excavations
  - Use spec'd soils (chosen for treatment capabilities)
Construction – Parking Lots 7 & 10

✓ Bioretention Planters & Infiltration Swale
Construction – Jed Smith Drive

✓ Porous pavement and rain gardens
Construction – Calaveras Hall

✓ Roof drain disconnects, rain gardens, & porous pavement
Construction – Library Green & Campus Grove

✓ Raised inlets, rain gardens, & porous pavement
Construction – College Town Drive

- Curb cuts and rain gardens

![Image of construction site with curb cuts and rain gardens.](image-url)
Plants
Existing Performance

✓ Performing as designed
  ◦ Runoff entering BMPs
  ◦ Infiltrating within 48 hrs
  ◦ Minimum overflow & discharge

PP video
Contact Info:

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New Development:
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We just want clean waterways!

For Illegal discharge support contact:
Humberto Amador
916–808–5411
Tara Barretto
916–661–8694
Questions?
Clean water is a vital resource
Construction Requirements
Requirements for all projects

- **ALL** projects include a set of Erosion and Sediment Control Plans regardless of size and type
- For those projects that disturbed one or more acres of land (this includes all linear projects)
  - Obtain the State mandated construction General Permit (WDID number is obtained before construction begins)
  - Develop and implement a site specific Storm Water Pollutions Prevention Plan (SWPPP).
- Ensure that each project has budgeted for proper BMP implementation for the duration of the project.
Minimum BMP Requirements

✓ Perimeter controls
✓ Construction entrances
✓ Protection of discharge points (DIs, creeks, roadside ditches, etc.)
✓ Proper location and protection of stockpiles
Perimeter controls

✓ Effective vs non-effective
Construction Entrances
✓ Adequate vs inadequate
Discharge protection

✓ Bueno vs No Bueno
Stockpiles

✅ What is the problem with them?
Post Construction Requirements
Planning and New Development Element Permit Requirements

- Source Controls
- Treatment Controls
- Hydromodification Mitigation
- Low Impact Development
- Retrofit?
Treatment Control Measures

- Threshold – Impervious area
  - One (1) acre and above for all development projects except
    - Public roadway improvement, linear projects (not part of a subdivision) ≥ 5-ac
STORMWATER QUALITY DESIGN MANUAL

Integrated Design Solutions for Urban Development
Protecting Our Water Quality

City of Citrus Heights
City of Elk Grove
City of Folsom
City of Galt
City of Rancho Cordova
City of Sacramento
County of Sacramento
LID @ CSUS

(Thanks to CSUS OWP for slides and photos)
Project Funding

✓ State Water Board  Prop. 84 Stormwater Grant

✓ Objectives:
  ◦ Prevent stormwater contamination of water bodies
  ◦ Meet stormwater permit requirements
  ◦ Implement LID
  ◦ Monitor performance
  ◦ Provide education and outreach

✓ Project Total – $3.3M
  • Prop 84 – $2.6M
  • Local Match – $0.7M
Site & BMP Selection: Bang–for–the–Buck

✓ Large Drainage Areas
   ◦ Parking lots, streets, rooftops, and existing landscaping

✓ Maximize Infiltration
   ◦ Replace less pervious with more pervious

✓ Existing Infrastructure
   ◦ Tie into existing grades
   ◦ Use existing storm drain system for overflow
   ◦ Minimize need for new irrigation infrastructure

✓ “Smarter” Vegetation
   ◦ Water–wise
   ◦ Drought– and inundation–tolerant
Campus Layout

North End of Parking Lot 7: Install bioRetention planters.

South End of Parking Lot 7: Install bioRetention planters and bioswales.

Jed Smith Green Street: Create a green street consisting of curb cuts, porous pavement parking, and rain gardens.

Library Green & Campus Grove: Create raised inlets and replace existing lawns with rain gardens.

Calaveras Hall: Disconnect roof drains and direct discharge into new rain gardens.

Campus Drive: Install new rain gardens.
Site & BMP Selection – Parking Lots

- Capture parking lot runoff
- Replace impervious parking stalls with pervious planters
- Build planters around existing DIs to address overflow
- Plant water-wise vegetation

![Diagram](image-url)
Site & BMP Selection – Streets

- Capture curb & gutter runoff
- Cut curbs to direct runoff to pervious areas
- Replace turf with amended soils and water-wise plants
Site & BMP Selection – Existing Landscape

- Capture runoff from impervious surface and turf
- Amend soils to enhance infiltration
- Replace turf with water-wise vegetation
- Regrade to create raised inlet
Design Challenges

✓ Conflicts with other infrastructure
  ◦ Sanitary sewer, gas, electric, light standards, trees

[Diagram showing various utilities and their conflicts]
Design Challenges

✓ Compatibility with campus master plan
Construction Challenges

✓ Unanticipated utilities and tree roots
  ◦ Reduced footprints
  ◦ Changed geometry
  ◦ Broken irrigation lines (excavations flooded)

✓ Contractors unfamiliar with intent
  ◦ Raised inlets should be raised
  ◦ Keep heavy equipment off excavations
  ◦ Use spec’d soils (chosen for treatment capabilities)
Construction – Parking Lots 7 & 10

- Bioretention Planters & Infiltrating Bioswale
Construction – Jed Smith Drive

✓ Porous pavement and rain gardens
Construction – Library Green & Campus Grove

✓ Raised inlets, rain gardens, & porous pavement
Construction – College Town Drive

✓ Curb cuts and rain gardens
Plants
Existing Performance

✓ Performing as designed
  ◦ Runoff entering BMPs
  ◦ Temporary ponding
  ◦ Infiltrating within 48 hrs
  ◦ Minimum overflow & discharge
Education and Outreach

Low Impact Development (LID) Stormwater Management

Sustainability to boost water collecting efforts with drain

Stormwater as a Resource: Sustainable Projects at Sacramento State
Contact Info:

Department of Utilities
New Development:
Dalia Fadl
Email: dfadl@cityof sacramento.org
Phone: 916–808–1449

Construction & illegal discharge:
Humberto Amador
Email: hamador@cityof sacramento.org
Phone: 916–808–5411
Questions?
Stormwater Quality Annual Training
Community Development Department (Building Services)

June 29, 2016
Clean water is a vital resource
Construction Requirements
Requirements for all projects

- **ALL** projects include a set of Erosion and Sediment Control Plans regardless of size and type

- For those projects that disturbed one or more acres of land (this includes all linear projects)
  - Obtain the State mandated construction General Permit (WDID number is obtained before construction begins)
  - Develop and implement a site specific Storm Water Pollutions Prevention Plan (SWPPP) in an effort to prevent the discharge of construction pollutants to our water ways.
ESC plans
Proper BMP Implementation

- Effective perimeter controls
- Adequate construction entrances
- Protect discharge points (DIs, creeks, roadside ditches, etc.)
- Keep stockpiles in check
Perimeter controls

✓ Effective vs non–effective
Construction Entrances

✓ Adequate vs inadequate
Discharge protection

✓ Bueno vs No Bueno
Stockpiles

✓ What is the problem with them?
Post Construction BMPs
Proper Vegetation

- Smart & Final on Freeport
Proper Vegetation

- Dollar Store–4500 Mach Rd
LID @ CSUS

(Thanks to CSUS OWP for slides and photos)
Campus Layout

Library Green & Campus Grove: Create raised inlets and replace existing lawns with rain gardens.

Jed Smith Green Street: Create a green street consisting of curb cuts, porous pavement parking, and rain gardens.

Calaveras Hall: Disconnect roof drains and direct discharge into new rain gardens.

North End of Parking Lot 7: Install bioretention planters.

South End of Parking Lot 7: Install bioretention planters and bioswales.

Parking Lot 10: Install bioretention planters.

Campus Drive: Install new rain gardens.
Site & BMP Selection – Existing Landscape

- Capture runoff from impervious surface and turf
- Amend soils to enhance infiltration
- Replace turf with River Friendly landscaping
- Regrade to create raised inlet
Design Challenges

✓ Conflicts with other infrastructure
  ◦ Sanitary sewer, gas, electric, light standards, trees
Construction Challenges

- Unanticipated utilities and tree roots
  - Reduced footprints
  - Changed geometry
  - Broken irrigation lines (excavations flooded)

- Contractors unfamiliar with BMPs
  - Raised inlets should be raised
  - Keep heavy equipment off excavations
  - Use spec’d soils (chosen for treatment capabilities)
Construction – Parking Lots 7 & 10

✓ Bioretention Planters & Infiltration Swale
Construction – Jed Smith Drive

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Construction – Library Green & Campus Grove

✓ Raised inlets, rain gardens, & porous pavement
Construction – College Town Drive

✓ Curb cuts and rain gardens
Contact Info:

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Construction & illegal discharge:
Humberto Amador
Email: hamador@cityofsacramento.org
Phone: 916–808–5411

Tara Barretto
Email: tbarretto@cityofsacramento.org
Phone: 916–661–8694
We just want clean waterways!

Questions?
4F. Rainy Season Preparation and Winterization Certification Reminder
October 27, 2015

Rainy Season Preparation and Winterization Certification Reminder

The purpose of this letter is to remind Contractors, Developers, and Builders of the necessity to implement the approved Erosion and Sediment Control Plan (ESC Plan), and to submit a 'Winterization Certification'.

The City's Grading, Erosion and Sediment Control Ordinance (No. 93-068) requires the preparation and submittal of a 'Winterization Certification' for all projects where construction activities will occur between October 1 and April 30.

- The ESC/Winterization Plan must include specific provisions and Best Management Practices (BMPs) for controlling erosion, containing sediment on site and preventing all non-stormwater discharges.
- This ESC plan should be updated to reflect current construction activities, BMPs and project schedule.
- This ESC plan should be located on the construction site during construction and made available to City Inspectors upon request.
- All BMPs shall be in place by October 1 or twenty-four (24) hours prior to any storm.
- All ESC measures and BMPs shall be maintained in operable condition throughout the rainy season, with replacement supplies kept on hand and/or on site.
- A log of all inspections or maintenance of BMPs, as well as any corrective changes to the BMPs or ESC plan, shall be maintained at the site.

The City may require work to be stopped until BMPs are in place, the ESC plan is updated, and the 'Winterization Certification' is received.

'Winterization Certifications' should be submitted to the following address:

Department of Utilities
Attention: Humberto Amador
1395 35th Avenue
Sacramento, CA 95822

If your construction site has a State General Construction Storm Water Permit (General Permit), the project's Storm Water Pollution Prevention Plan (SWPPP) should be updated to reflect current construction activities.

- The SWPPP and SWPPP map should be up-to-date and remain on the construction site at all times during the construction project.
- Inspections shall be conducted prior to each anticipated storm event, once each 24-hour period during extended storm events, and after actual storm events.
- All inspections findings and action taken should be documented in detailed, site-specific inspections reports, to be maintained on-site for review.
- If using soil amendments exposed to stormwater, implement a Sampling and Analysis program.

If you have any questions regarding the City's winterization requirements or the State's General Construction Permit, contact Humberto Amador at 916-808-5411.

Department of Utilities
916-808-1400
1395 35th Ave
Sacramento, CA 95822
# Stormwater Quality

## Rainy Season Preparation and Winterization Notification

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Name of person receiving Notification</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Landmark Construction</td>
<td>Jim Bird</td>
<td></td>
<td>11-10-15</td>
</tr>
<tr>
<td>Bonza Homes</td>
<td>Brian Weingart</td>
<td></td>
<td>11-10-15</td>
</tr>
<tr>
<td>Taylor Morrison</td>
<td>Mitch Holley</td>
<td></td>
<td>11-10-15</td>
</tr>
<tr>
<td>K Hovnanian Homes</td>
<td>Scott Greenlee</td>
<td></td>
<td>11-10-15</td>
</tr>
<tr>
<td>Homewood Truss</td>
<td>David Kirkland</td>
<td></td>
<td>11-13-15</td>
</tr>
<tr>
<td>Barrios Homes</td>
<td>Gary Watson</td>
<td></td>
<td>11-13-15</td>
</tr>
<tr>
<td>AP Thomas</td>
<td>Phil Swedes</td>
<td></td>
<td>11-13-15</td>
</tr>
<tr>
<td>Hibbers Inc.</td>
<td>David Demmer</td>
<td></td>
<td>11-13-15</td>
</tr>
<tr>
<td>Buzz, Davis Construction</td>
<td>Ray Pickle</td>
<td></td>
<td>11-13-15</td>
</tr>
<tr>
<td>Brown Construction</td>
<td>Brian Park</td>
<td></td>
<td>11-13-15</td>
</tr>
<tr>
<td>N.P. Construction</td>
<td>Bill Miles</td>
<td></td>
<td>11-13-15</td>
</tr>
<tr>
<td>Blackpine Communities</td>
<td>Doug McGee</td>
<td></td>
<td>11-15-15</td>
</tr>
<tr>
<td>Myers and Sons Const</td>
<td>Bob Kenney</td>
<td></td>
<td>11-13-15</td>
</tr>
<tr>
<td>Rodmier Lewis</td>
<td>Rodmier Lewis</td>
<td></td>
<td>11-13-15</td>
</tr>
<tr>
<td>USA Properties</td>
<td>Curtis Meeks</td>
<td></td>
<td>11/13/15</td>
</tr>
<tr>
<td>Madison Commercial Const</td>
<td>Mitch McName</td>
<td></td>
<td>11/20/15</td>
</tr>
<tr>
<td>Champion Contractors</td>
<td>Ron Grinding</td>
<td></td>
<td>11/20/15</td>
</tr>
<tr>
<td>Eleven Construction</td>
<td>John Cassia</td>
<td></td>
<td>11/20/15</td>
</tr>
<tr>
<td>Beck Femi</td>
<td>Sale Beck</td>
<td></td>
<td>11/20/15</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>11/25/05</td>
</tr>
</tbody>
</table>
4G. Summary of ESC Design Plans and Implementation Assessment for Private Projects
### Summary of ESC Design Plans and Implementation Assessment for Private Projects

<table>
<thead>
<tr>
<th>Address</th>
<th>Disturbed Acreage</th>
<th>Field Inspection Dates</th>
<th>Inspection Comments</th>
<th>ESC Plan or ESC Notes</th>
<th>ESC Plans Reviewed by SW Manager</th>
<th>ESC Plan Review Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1801 17th Street*</td>
<td>2.40</td>
<td>02/17/16 06/29/16</td>
<td>Some BMPs (perimeter controls, construction entrance and DI protection) were not properly implemented or maintained during 2/17/16 inspection. Some minor tracking was an issue during the 6/29/16 inspection due to a construction entrance that needed to be improved.</td>
<td>Yes</td>
<td>Yes</td>
<td>All necessary BMPs were included in the ESC plans for this project</td>
</tr>
<tr>
<td>6561, 6563, 6565 24th Street</td>
<td>1&lt;</td>
<td>02/08/16 05/31/16</td>
<td>Some minor sediment tracking during both inspection dates due to an inadequate construction entrance.</td>
<td>Yes</td>
<td>Yes</td>
<td>All necessary BMPs were included in the ESC plans for this project</td>
</tr>
<tr>
<td>7351 24th Street</td>
<td>1&lt;</td>
<td>04/06/16 N/A</td>
<td>Rough grading was completed at time of inspection observed.</td>
<td>Yes</td>
<td>Yes</td>
<td>All necessary BMPs were included in the ESC plans for this project</td>
</tr>
<tr>
<td>1817 65th Street</td>
<td>2.63</td>
<td>05/11/16 N/A</td>
<td>Building structure was under construction during 1/27/16 inspection and no issues were noted. All BMPs were implemented per plans on both inspection dates.</td>
<td>Yes</td>
<td>Yes</td>
<td>All necessary BMPs were included in the ESC plans for this project</td>
</tr>
<tr>
<td>4316 Astoria Street</td>
<td>1&lt;</td>
<td>01/27/16 06/15/16</td>
<td>Construction entrance was not being maintained which resulted in some tracking (for inspection 1/27/16). Some BMPs were not properly implemented and/or maintained during 5/17/16 inspection.</td>
<td>Yes</td>
<td>Yes</td>
<td>All necessary BMPs were included in the ESC plans for this project</td>
</tr>
<tr>
<td>1 Cadillac Drive</td>
<td>4.43</td>
<td>01/27/16 05/17/16</td>
<td>During first assessment it was noted that contractor did not have BMPs to prevent the discharge of sediment (no perimeter controls or stock piles properly covered). Site got better with subsequent inspections.</td>
<td>Yes</td>
<td>Yes</td>
<td>All necessary BMPs were included in the ESC plans for this project</td>
</tr>
<tr>
<td>8204 Delta Shores Ct</td>
<td>23.68</td>
<td>04/06/16 N/A</td>
<td>BMPs were implemented per plans and no issues were observed</td>
<td>Yes</td>
<td>Yes</td>
<td>All necessary BMPs were included in the ESC plans for this project</td>
</tr>
<tr>
<td>5151 F street</td>
<td>2.69</td>
<td>05/09/16 N/A</td>
<td>BMPs were implemented per plans and no issues were observed</td>
<td>Yes</td>
<td>Yes</td>
<td>All necessary BMPs were included in the ESC plans for this project</td>
</tr>
<tr>
<td>4600 Florin Perkins Rd</td>
<td>8.26</td>
<td>02/12/16 04/07/16</td>
<td>BMPs were properly implemented during the assessment inspection and during regular inspections.</td>
<td>Yes</td>
<td>Yes</td>
<td>All necessary BMPs were included in the ESC plans for this project</td>
</tr>
<tr>
<td>6601 Folsom Blvd.</td>
<td>1&lt;</td>
<td>02/11/16 06/30/16</td>
<td>During first assessment it was noted that contractor did not have BMPs to prevent the discharge of sediment (no perimeter controls or stock piles properly covered). Site got better with subsequent inspections.</td>
<td>Yes</td>
<td>Yes</td>
<td>All necessary BMPs were included in the ESC plans for this project</td>
</tr>
<tr>
<td>400 Jibboom Street</td>
<td>1&lt;</td>
<td>2/10/2016 5/31/2016</td>
<td>There was no construction activity at time of inspections</td>
<td>Yes</td>
<td>Yes</td>
<td>All necessary BMPs were included in the ESC plans for this project</td>
</tr>
<tr>
<td>181 Main Avenue</td>
<td>4.25</td>
<td>N/A N/A</td>
<td>No assessment conducted for this site</td>
<td>Yes</td>
<td>Yes</td>
<td>All necessary BMPs were included in the ESC plans for this project</td>
</tr>
<tr>
<td>Natomas Charter Star Academy</td>
<td>9.29</td>
<td>11/15/15 01/27/16</td>
<td>BMPs were properly implemented during the assessment inspections and during regular inspections.</td>
<td>Yes</td>
<td>Yes</td>
<td>All necessary BMPs were included in the ESC plans for this project</td>
</tr>
<tr>
<td>Northwest Land Park-Phase 2*</td>
<td>6.51</td>
<td>02/16/16 05/09/16</td>
<td>Some sediment tracking, due to inadequate construction entrance, during first assessment inspection. Poor house practices during second inspection.</td>
<td>Yes</td>
<td>Yes</td>
<td>All necessary BMPs were included in the ESC plans for this project</td>
</tr>
<tr>
<td>Parkebridge-Village 1</td>
<td>29.93</td>
<td>N/A N/A</td>
<td>No assessment conducted for this site due to no construction activity.</td>
<td>Yes</td>
<td>Yes</td>
<td>All necessary BMPs were included in the ESC plans for this project</td>
</tr>
<tr>
<td>2820 R street*</td>
<td>1.18</td>
<td>11/18/15 01/26/16</td>
<td>BMPs were properly implemented during the assessment inspections.</td>
<td>Yes</td>
<td>Yes</td>
<td>All necessary BMPs were included in the ESC plans for this project</td>
</tr>
<tr>
<td>2001 Rose Arbor Dr</td>
<td>10.32</td>
<td>03/09/16 05/20/16</td>
<td>All BMPs were implemented at time of first assessment. Some minor tracking due to lack of maintenance of construction entrance.</td>
<td>Yes</td>
<td>Yes</td>
<td>All necessary BMPs were included in the ESC plans for this project</td>
</tr>
<tr>
<td>1890 Santa Ana Avenue</td>
<td>9.55</td>
<td>11/20/15 03/15/16</td>
<td>BMPs were properly implemented during the assessment inspections and during regular inspections.</td>
<td>Yes</td>
<td>Yes</td>
<td>All necessary BMPs were included in the ESC plans for this project</td>
</tr>
<tr>
<td>4010 Stockton Blvd.</td>
<td>2.56</td>
<td>01/28/16 05/12/16</td>
<td>Some BMPs (perimeter controls, construction entrance and DI protection) were not properly implemented or maintained during 1/28/16 inspection. Site got better with subsequent inspections.</td>
<td>Yes</td>
<td>Yes</td>
<td>All necessary BMPs were included in the ESC plans for this project</td>
</tr>
<tr>
<td>Township 9</td>
<td>1&lt;</td>
<td>02/18/16 06/22/16</td>
<td>Inadequate construction entrance at time of assessment.</td>
<td>Yes</td>
<td>Yes</td>
<td>All necessary BMPs were included in the ESC plans for this project</td>
</tr>
<tr>
<td>7640 West Stockton Blvd</td>
<td>1&lt;</td>
<td>01/29/16 05/23/16</td>
<td>BMPs were properly implemented during the first assessment inspection. Some poor housekeeping practices were observed during second assessment.</td>
<td>Yes</td>
<td>Yes</td>
<td>All necessary BMPs were included in the ESC plans for this project</td>
</tr>
</tbody>
</table>

* These projects are in the combined system and were not required to obtain the State's Construction General Permit.
4H. Municipal Operations Training – Summary, Sign-in Sheets and Presentations
Stormwater Pollution Prevention Training
Sacramento Convention Center
March 2016

Things to be Aware of...

- Stormwater Regulations
  - Drainage permit
- Common Pollutants of Concern
  - Identifying and reporting illegal discharges
- Pollution Prevention
  - Washing/rinsing vehicles and equipment

Discharge Permit:

- National Pollution Discharge Elimination System (NPDES)
  - Required by EPA & issued by State
  - Prohibits the discharge of pollutants to waterways unless authorized by an NPDES permit
- City of Sacramento Issued NPDES Permit
  - No. CAS000297, EPA-1215 June 5, 2012
  - EPA conducts audits
Why does EPA conduct audits?

• Assess compliance
• Answer questions and clarify requirements
• Provide technical assistance
• Assess program effectiveness
• Prepare for permit reissuance

Typical Audit Schedule

• Day 1
  – Office
    • Municipal Operations Program paper review
• Day 2
  – Field
    • Municipal Field Activities
    • Municipal Facilities

What is Stormwater?

Stormwater is runoff from rain and snowmelt flows over urban surfaces and carries pollutants to the nearest stream
Where does that drain go?

In the City of Sacramento, some storm drains discharge directly to waterways without filtration or treatment. Would you pour this into the American River?

Why is Protecting Stormwater Necessary?

Pollutants can impair aquatic ecosystems and impact drinking water sources and drastically affect our quality of life, our fisheries, and our recreation.

What is the goal of training employees about storm water?

To increase awareness of being aware of and alert to conditions that could result in the discharge of polluted storm water. To improve communication between employees and supervisors.
Illegal Discharges

Local Ordinances Prohibit...

- Discharges of any material into the storm drainage system or watercourse other than stormwater
- Construction, use, or maintenance of an illicit connection
- Materials deposited in such a manner or location as to constitute a threatened discharge

Potential Water Quality Violations

- Poorly maintained dumpster and loading dock areas
- Cleaning of buildings, sidewalks, patios
- Spills
- Poor Housekeeping
- Illicit connections to storm systems

An illicit discharge is any discharge to the storm drainage system that is not composed entirely of stormwater or snowmelt

Illegal Discharges

Even small discharges are large pollutant sources, if they pollute day after day.
Potential Pollution Sources and
Best Management Practices (BMPs)

Areas needing attention include...
- Spill Response
- Dumpster Areas
- Material & Inventory Storage
- Storm Drain System
- Surface Cleaning
- Fleet Washing/Steam Cleaning
- Waste Material Storage
- Fueling Areas

Locate Your Storm Drains

These are your connections to the nearest stream
Spill Response

Be Prepared!

- Create a Spill Response Plan
- Train employees
- Keep a stocked spill kit readily accessible

Spill Response

Prompt Spill Clean Up

- Control the source
- Contain spill
- Absorb material

Managing Spills/Leaks

- Spot clean spills/leaks and drips routinely
  - Leaks are not considered cleaned up until the absorbent is picked up and disposed of properly
Spill Response

Report Spills that Travel Offsite and Illegal Discharges
- City of Sacramento Hotline - 311

Dumpster Areas

- Containers must be covered at all times
- Do not allow containers to overflow
- Contact your service provider immediately if your containers leak or do not have lids

Good!

- Covered containers
- No liquid wastes
Dumpster Areas

Bad!

Perform regular maintenance

Keep storm drains free of litter and debris

Do not divert grass clippings or leaves into storm drains
Surface Cleaning

- Wash water may **NOT** be discharged to storm drains
- **IF** you **do not use any chemicals**
  - **AND** are only cleaning surfaces of ambient dirt,
  - **THEN** you may direct the wash water to nearby landscaping **OR** contain it onsite and allow it to evaporate
- **IF NOT**, wash water must be collected and discharged to the sanitary sewer

Steps for Proper Surface Cleaning...

- Use dry clean up methods first
- Locate storm drains
- Determine where water will pool for collection
- Protect storm drains and collect wash water
- Dispose of water properly
  - Sanitary sewer drain at the job site

Good!
Good Housekeeping BMPS:

- Accumulated debris, waste and old equipment periodically cleaned up
- Equipment is kept clean so that a buildup of grease and oil will not wash away if exposed to rain
- Indoor work areas are kept neat, well-ventilated and uncluttered to discourage outdoor work and to allow leaks/spills to be quickly detected/controlled
- Janitorial wash water not discharged to drainage system
- Outdoor work areas are swept regularly (not hosed) and are kept neat and clean

Material & Inventory Storage

Indoor
- Improper use of straw wattle

Outdoor

Good Housekeeping

Before
- Regular pickup of waste materials and scrap equipment
- Routine inspections of drums, tanks and other containers for leaks
- An individual/individuals responsible for ensuring housekeeping within each area

After
- STOP WORK
- GO
ANYTHING STORED OUTSIDE MUST BE CLEANED OF CHEMICAL RESIDUES, PROPERLY CONTAINED, AND WE NEED TO CONSIDER WHY WE ARE KEEPING IT, AND FIGURE OUT HOW TO GET RID OF IT OR STORE IT INSIDE. EACH FACILITY'S OUTDOOR STORAGE MUST BE ADDRESSED...

Outdoor Storage Areas:

Drums must be sealed with covers and bungs

And preferably inside a secondary containment area!

Waste products must be stored in covered drums and staged in an assigned area with secondary containment.
Outdoor Container Storage

Fueling Areas

• Know where the spill kits are located
• Vehicles not left unattended while refueling

During Construction:
Potential Construction Site Pollutants:

Sediment
- The most common pollutant washed from construction sites!
- Clogs the gills of fish, blocks light transmission and increases water temperature.

Construction BMPS:
- Locate Drain Inlets
- Install BMPs – It’s OK to Use a combination of BMP’s
- Capture the sediment before it’s released into the waterway.
- If you have to dewater, all us first!
Sediment Control

- Any practice that traps soil particles after they have been detached and moved by rain, flowing water, or wind
- Measures that rely on filtering or settling of the particles out of the water

Gravel Bag Check Dam

- Reduces the velocity of flow at various locations in the flow line
  - Allowing more opportunities for sediment to settle
A bad day fishin' is better than a good day at work.
Stormwater Pollution Prevention Training
Pavement/Maintenance Services
March 2016

Things to be Aware of...

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  - NO. CAS00397, Expiration June 5, 2017
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What is the goal of training employees about stormwater?

To ensure employees are being AWARE of and ALERT to conditions that could result in the discharge of pollutants into storm waters.

To improve communication between employees and supervisors.
Illegal Discharges

City of Sacramento Local Ordinances Prohibit…

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- Construction, use, or maintenance of an illicit connection
- Materials deposited in such a manner or location as to constitute a threatened discharge

Illegal Discharges

Potential Water Quality Violations

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Areas needing attention include...
- Spill Response
- Dumpster Areas
- Material & Inventory Storage
- Storm Drain System
- Surface Cleaning
- Waste Material Storage
- Fueling Areas

Locate Your Storm Drains

These are your connections to the nearest stream
Spill Response

Be Prepared!

- Create a Spill Response Plan
- Train employees
- Keep a stocked spill kit readily accessible

Spill Response

Prompt Spill Clean Up

- Control the source
- Contain spill
- Absorb material

Spill Response

Report Spills that Travel Offsite and Illegal Discharges

- City of Sacramento Hotline - 311
Managing Spills/Leaks

Spot clean spills/leaks and drips routinely

- Leaks are not considered cleaned up until the absorbent is picked up and disposed of properly

 Dumpster Areas

- Containers must be covered at all times
- Do not allow containers to overflow
- Contact your service provider immediately if your containers leak or do not have lids
Dumpster Areas

**Good!**

- Covered containers
- No liquid wastes

Waste Materials Storage:

- Accumulated debris, waste and old equipment periodically cleaned up
- Equipment is kept clean so that a buildup of grease and oil will not wash away if exposed to rain
- Indoor work areas are kept neat, well-ventilated and uncluttered to discourage outdoor work and to allow leaks/spills to be quickly detected/controlled
- Janitorial wash water not discharged to drainage system
- Outdoor work areas are swept regularly (not hosed) and are kept neat and clean

Good Housekeeping BMPS:
Material & Inventory Storage

Indoor

Outdoor

Improper use of straw wattle

Good Housekeeping

Before

Regular pickup of waste materials and scrap equipment

Routine inspections of drums, tanks and other containers for leaks

An individual responsible for ensuring housekeeping within each area

After

Go

Considerations

- Regular pickup of waste materials and scrap equipment
- Routine inspections of drums, tanks and other containers for leaks
- An individual responsible for ensuring housekeeping within each area

Outdoor Storage Areas:

Anything stored outside must be cleaned of chemical residues, properly contained, and we need to consider why we are keeping it, and figure out how to get rid of it or store it inside each facility. Outdoor storage must be addressed...
Drums must be sealed with covers and bungs

And preferably inside a secondary containment area!!

Waste products must be stored in covered drums and staged in an assigned area with secondary containment.

Outdoor Container Storage
**Fueling Areas**

- Know where the spill kits are located
- Vehicles not left unattended while refueling

**ADA Curb Ramp Litigation**

- Chicago agrees to pay largest ADA curb ramp settlement ever - $200 million to New Haven (7 years)
- Caltrans settles lawsuit over disabled access - the agency proposes to spend $2.1 billion to make use of sidewalks, crosswalks, and park-and-ride facilities (30 years)
- Fed/OSHA ramping up efforts on curb cuts - lawsuits prompt budgeting of $370 million to improve access for handicapped
- Sacramento settles sidewalk case, avoiding Supreme Court - 20 percent of its transportation funds for the next 30 years to improve sidewalks, crosswalks, and curb ramps

**Comply with ADA and with EPA!**
During Construction:

Potential Construction Site Pollutants:

Sediment
- The most common pollutant washed from construction sites!
- Clogs the gills of fish, blocks light transmission and increases water temperature.

Construction BMPS:
- Locate Drain Inlets
- Install BMPs – It’s OK to Use a combination of BMP’s
- Capture the sediment before it’s released into the waterway.
- If you have to dewater, all us first!
Sediment Control

- Any practice that traps soil particles after they have been detached and moved by rain, flowing water, or wind

- Measures that rely on filtering or settling of the particles out of the water
Gravel Bag Check Dam

- Reduces the velocity of flow at various locations in the flow line
  - Allowing more opportunities for sediment to settle
Surface Cleaning

Steps for Proper Surface Cleaning...

- Use dry clean up methods first
- Locate storm drains
- Never wash excess material from exposed aggregate concrete or similar treatments into a street or storm drain.

Construction BMPS:
A bad day fishin' is better than a good day at work.
Stormwater Pollution Prevention Training
In-Source Concrete
April 2016

Things to be Aware of...

- Stormwater Regulations
  - Drainage permit
- Common Pollutants of Concern
  - Identifying and reporting illegal discharges
- Pollution Prevention
  - Washing/rinsing vehicles and equipment

Discharge Permit:

- National Pollution Discharge Elimination System (NPDES)
  - Required by EPA & issued by State
    - Prohibits the discharge of pollutants to waterways unless authorized by an NPDES permit
- City of Sacramento Issued NPDES Permit
  NO. CAS002597 Effective June 5, 2015
- EPA conducts audits
Why does EPA conduct audits?

- Assess compliance
- Answer questions and clarify requirements
- Provide technical assistance
- Assess program effectiveness
- Prepare for permit reissuance

Typical Audit Schedule

- Day 1
  - Office
    - Municipal Operations Program paper review
- Day 2
  - Field
    - Municipal Field Activities
    - Municipal Facilities

What is Stormwater?

Stormwater is runoff from rain and snowmelt flows over urban surfaces and carries pollutants to the nearest stream
Where does that drain go?

In the City of Sacramento, some storm drains discharge directly to waterways without filtration or treatment.

Would you pour this into the American River?

Why is Protecting Stormwater Necessary?

Pollutants can impair aquatic ecosystems and impact drinking water sources and drastically affect our quality of life, our fisheries, and our recreation.

What is the goal of training employees about storm water?

To stress the importance of being AWARE of and ALERT to conditions that could result in the discharge of pollutants from water.
To improve communication between employees and supervisors.
Illegal Discharges

Local Ordinances Prohibit...

- Discharges of any material into the storm drainage system or watercourse other than stormwater
- Construction, use, or maintenance of an illicit connection
- Materials deposited in such a manner or location as to constitute a threatened discharge

Illegal Discharges

Potential Water Quality Violations

- Poorly maintained dumpster and loading dock areas
- Cleaning of buildings, sidewalks, patios
- Spills
- Poor Housekeeping
- Illicit connections to storm systems

An illicit discharge is any discharge to the storm drainage system that is not composed entirely of stormwater or snowmelt

Illegal Discharges

Even small discharges are large pollutant sources, if they pollute day after day.
Potential Pollution Sources and Best Management Practices (BMPs)

Areas needing attention include...
- Spill Response
- Dumpster Areas
- Material & Inventory Storage
- Storm Drain System
- Surface Cleaning
- Fleet Washing/Steam Cleaning
- Waste Material Storage
- Fueling Areas

Locate Your Storm Drains

These are your connections to the nearest stream
Spill Response

Be Prepared!

- Create a Spill Response Plan
- Train employees
- Keep a stocked spill kit readily accessible

Prompt Spill Clean Up

- Control the source
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Managing Spills/Leaks

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Report Spills that Travel Offsite and Illegal Discharges

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Dumpster Areas

- Containers must be covered at all times
- Do not allow containers to overflow
- Contact your service provider immediately if your containers leak or do not have lids

Dumpster Areas

Good!

- Covered containers
- No liquid wastes
Dumpster Areas

Bad!

- Perform regular maintenance
- Keep storm drains free of litter and debris
- Do not divert grass clippings or leaves into storm drains

Dumpster Areas

Ugly!

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Surface Cleaning

- Wash water may **NOT** be discharged to storm drains
- **IF** you do not use any chemicals
  
  **AND** are only cleaning surfaces of ambient dirt,
  
  **THEN** you may direct the wash water to nearby landscaping **OR** contain it onsite and allow it to evaporate
- **IF NOT,** wash water must be collected and discharged to the sanitary sewer

Steps for Proper Surface Cleaning...

- Use dry clean up methods first
- Locate storm drains
- Determine where water will pool for collection
- Protect storm drains and collect wash water
- Dispose of water properly
  - Sanitary sewer drain at the job site
**Good Housekeeping BMPS:**

- Accumulated debris, waste and old equipment periodically cleaned up
- Equipment is kept clean so that a buildup of grease and oil will not wash away if exposed to rain
- Indoor work areas are kept neat, well-ventilated and uncluttered to discourage outdoor work and to allow leaks/spills to be quickly detected/controlled
- Janitorial wash water not discharged to drainage system
- Outdoor work areas are swept regularly (not hosed) and are kept neat and clean

**Material & Inventory Storage**

Indoor

Outdoor

*Improper use of straw wattle*

**Good Housekeeping**

*Before*  
**STOP WORK**

*Considerations*

- Regular pickup of waste materials and scrap equipment
- Routine inspections of drums, tanks and other containers for leaks
- An individual responsible for ensuring housekeeping within each area

*After*  
**GO**
ANYTHING STORED OUTSIDE MUST BE CLEANED OF CHEMICAL RESIDUE, PROPERLY CONTAINED, AND WE NEED TO CONSIDER WHY WE ARE KEEPING IT, AND FIGURE OUT HOW TO GET RID OF IT OR STORE IT INSIDE.

EACH FACILITY'S OUTDOOR STORAGE MUST BE ADDRESSED.

Outdoor Storage Areas:

Drums must be sealed with covers and bungs. And preferably inside a secondary containment area!

Waste products must be stored in covered drums and staged in an assigned area with secondary containment.
Outdoor Container Storage

• Know where the spill kits are located
• Vehicles not left unattended while refueling

Fueling Areas

ADA Curb Ramp Litigation

Litigation Assistance

Chicago agrees to Pay Largest ADA Curb Ramp Settlement Ever -- $20,000,000 to Over 4,000 People

Caltrans settles lawsuit over disabled access. The law requires the state to provide at least one accessible parking space for every 100 parking spaces. The settlement includes $10 million to cover costs of lawyers and other expenses. The settlement also requires Caltrans to install curb ramps at all new and existing facilities.

Sacramento wins: Supreme Court: 25 percent of its transportation funds for the next 25 years to improve sidewalks, crosswalks and curb ramps.
Comply with ADA and with EPA!

During Construction:

Potential Construction Site Pollutants:

Sediment
  – The most common pollutant washed from construction sites!
  – Clogs the gills of fish, blocks light transmission and increases water temperature.
Construction BMPS:

- Locate Drain Inlets
- Install BMPs – It’s OK to Use a combination of BMP’s
- Capture the sediment before it’s released into the waterway.
- If you have to dewater, all us first!
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- Any practice that traps soil particles after they have been detached and moved by rain, flowing water, or wind

- Measures that rely on filtering or settling of the particles out of the water

Gravel Bag Check Dam

- Reduces the velocity of flow at various locations in the flow line
  - Allowing more opportunities for sediment to settle

Gravel Bag Check Dam
A bad day fishin’ is better than a good day at work.
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<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Kevin Booty</td>
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<td>kevin.booty@cityof Sacramen.to</td>
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<tr>
<td>Dustin Hollingsworth</td>
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<td>Mike Day</td>
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# SIGN-IN SHEET

## WASTEWATER SECTION

### STORMWATER QUALITY OUTREACH

(Required Training Session – March 9, 2016)

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PAVEMENT / MAINTENANCE SAFETY MEETING
SIGN IN SHEET

DATE: 3-17-16

AGENDA:

GENERAL SUPERVISORS
G. MORALES
J. SANCHEZ

SUPERVISORS
CAMPOS, J
DENNIS, D
HAMPTON, J
HERNANDEZ, D
SAENZ, R
EQUIPMENT OPERATORS

HODSON, S

PANDER, A

WOOD, S

LABORERS

BARONE, R

BERMUDEZ, V

BOWER, R

CAZAREZ, J

CHAVEZ, R

FALGOUST, G

GASSAWAY, M

GASTELUM, C

GIBBONS, R

GUZMAN, D

GUZMAN - DIAZ, R

HAMPTON, P
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<td>VINSON, R</td>
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Sign In Sheet

Training Title: Storm Water Pollution and Prevention

Attendees: Please print legibly and sign your name. Use additional sheets if necessary.

PRINT LEGIBLY

Kim Capaul
Robert Whitwood
Jeff Boyer
Steven Craig
Steve Kruenekel
Everett Noe
Sean Herzie
Grant Moore
Philip Myers
Robert Ragan
Philip Meyer
Richard Parent
Raymond Smith
Sam DeSalla
Dina Rimack

SIGNATURE

Kim Capaul
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Everett Noe
Sean Herzie
Grant Moore
Philip Myers
Robert Ragan
Philip Meyer
Richard Parent
Raymond Smith
Sam DeSalla
Dina Rimack

S:Plants/Molly/Forms 8.16.12
In-Source & Concrete Inspection
Safety Meeting

Date: 4/20/2016
Subject: Best Management to Prevent Storm Water Pollution &
Annual Refresher Training

1. Erick Talavera
2. Marcy Flores
3. Richard Wong
4. Kevin Boisa
5. Manuel Velasco
6. Enrique Lara
7. Juan Solorio
8. Marcos Munoz
9. Jesus Munoz
10. Jesus Garcia
11. Gerardo Enriques
12. Paul Gregg
13. Luciano Duran
14. Joseph Romero
15. Clemente Mayorga
16. Danny Ruiz
17. Donald Wayne
18. Chris Taylor
19. Spencer Harris
20. Ralph Bargas
21. Ron Hulsey
22. Sam Gunter
23. Kay Kress
24. Ricardo Montanez
25. Robert Cervantes
26. Stan Manza
27. Dan Pskowski
28. Bill Carrie
TAILGATE SAFETY MEETING

DATE: 4-12-16  TRAINER: Fernando Duñar
LOCATION: Street Lighting Signals
SUBJECT: Storm Water Pollution Prevention Training
TRAINING AIDS: Presentation

ATTENDEES:

<table>
<thead>
<tr>
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<tr>
<td>1. Paula Sorensen</td>
<td>P. Sorensen</td>
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<td>2. John Wenz</td>
<td>J. Wenz</td>
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<td>3. John Christensen</td>
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<td>4. EDUARDO CRUZ</td>
<td>E. Cruz</td>
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<td>5. MICHAEL LOUIE</td>
<td>M. Louie</td>
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<td>6. George DiCataldo</td>
<td>G. DiCataldo</td>
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<td>7. Kent Anderson</td>
<td>K. Anderson</td>
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<td>8. JOHN L.</td>
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<td>9. MARSH TRAFFIC</td>
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<td>10. FRANK Flores</td>
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<td>11. Humberto Covarrubias</td>
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<td>15. Fernanda Lucaster</td>
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<td>16. Kayla Salazar</td>
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4I. Potential Illicit Discharge Location Map
4J. Map of On-Site Treatment Control Measures approved as of 06/30/16
On-Site Treatment Control Measures
Fiscal Year 2015/2016

Legend
- Filter Strip
- Fossil Filter
- Interceptor
- Storm Filter
- Storm Vault
- Stormwater Planter
- Swale
- Vortech
- Combined Sewer System
4K. Summary of Treatment Control Measures with Maintenance Agreements, Sample Maintenance Request Letter, Agreement, and Record
## Summary of On-Site Treatment Control Measures
### Approved as of 6/30/2016

<table>
<thead>
<tr>
<th>Site Address</th>
<th>Site Name</th>
<th>Agreement Number</th>
<th>Status</th>
<th>Type of BMPs</th>
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<tr>
<td>21st Ave, 6700</td>
<td>Roman Catholic Church</td>
<td>2015-0161</td>
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<tr>
<td>25th Street, 7285</td>
<td>South Sac Islamic Center</td>
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<td>Undeveloped</td>
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<td>4th Avenue, 6507, 6701, 6703</td>
<td>Target Corporation</td>
<td>2009-1073, 2009-1074</td>
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<tr>
<td>65th St, 1817</td>
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<td>88th Street, 5980</td>
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<td>Beloit Drive, 4601</td>
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<tr>
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<tr>
<td>Bruceville Road, 8600</td>
<td>Bruceville Road Office Retail</td>
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<tr>
<td>Cadillac Avenue, 1</td>
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<td>Complete</td>
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<tr>
<td>Center Parkway, 8755, 8765</td>
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<tr>
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<td>Site Address</td>
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<td>Type of BMP</td>
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<tr>
<td>Site Address</td>
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<td>Agreement Number</td>
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<td>Type of BMP</td>
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<tr>
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<td>Specialty Circle, 8417, 8425, 8433</td>
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Total Number of Sites with Approved Maintenance Agreements = 107
May 31, 2016

California State Lottery
600 North 10th Street
Sacramento, CA 95811

Subject: Stormwater Treatment Device Maintenance
North 10TH, 600

Dear Veronica Rahn (vrahn@calottery.com),

At the time of initial approval of the development project known as North 10TH, 600, the City of Sacramento required the project to incorporate an on-site treatment control measure to minimize pollutants in urban runoff, and enter into a maintenance agreement.

The treatment device: Stormwater Planter was installed as the on-site stormwater quality control measure, and the Stormwater Treatment Device Access and Maintenance Agreement Number 2013-0015 was executed. This maintenance agreement requires the property owner to maintain the device, ensuring peak performance and to provide maintenance records to the City upon request.

The City is requesting the photos, the current inspection and maintenance schedules, and the records documenting maintenance activities from July 1, 2015 to May 31, 2016.

Please submit the completed documentation to me at the address below or through my email at dfadl@cityofsacramento.org by July 1, 2016. The City may contact you to conduct an inspection of your facility and stormwater treatment device. Your continued support of the Sacramento Stormwater Quality Improvement Program is a valuable component in the effort to protect our water resources.

If you have any questions or require further information, please contact Harpreet Gill at 916-808-1452 or me at 916-808-1449.

Sincerely,

Dalia Fadl, P.E.
Senior Engineer
# Department Information

**Department:** Utilities  
**Division:** Engineering Services  
**Project Mgr:** Hong Lin  
**Supervisor:** Sherill Huun  
**Contract Services:**  
**Phone Number:** 808-1449  
**Project Number:** 600, N 10TH St  
**Bid Transaction #:**  
**Org Number:** 13400  
**Comment:**

---

## General Information

- **Type:** Commodity  
- **PO Type:** Select PO Type  
- **Attachment:** Original  
- **Not to Exceed:** $  
- **Other Party:** California State Lottery  
- **Project Name:** Stormwater Maintenance Agreement  
- **Deed:** None  
- **Included**  
- **Separate**  
- **Tax ID #**  
- **Meeting:** Recording Requested  
- **Requires Council Approval:** No

---

## Review and Signature Routing

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<th>Signature or Initial</th>
<th>Date</th>
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<td>Hong Lin</td>
<td>12/17/2012</td>
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<td>Contract Services:</td>
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<td>Supervisor:</td>
<td>Sherill Huun</td>
<td>12/17/12</td>
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<tr>
<td>Division Manager:</td>
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<td></td>
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<tr>
<td>City Attorney:</td>
<td></td>
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- **Send Interoffice Mail:** Yes  
- **Notify for Pick Up:** No  
- **Authorization:**  
  - Dave Brent  
  - Choose Director  
  - Department Director:  
  - City Mgr: Yes

---

**Contract Cover/Routing Form:** Must Accompany ALL Contracts; however, is not part of the contract.  
(01-01-09)
STORMWATER TREATMENT MEASURE ACCESS AND MAINTENANCE AGREEMENT

OWNER: California State Lottery

PROPERTY ADDRESS: 600, N 10TH Street, Sacramento

APN: 001-0020-009

THIS AGREEMENT is made and entered into in Sacramento, California, this 12th day of December 2012 by and between California State Lottery ("Owner"), and the CITY OF SACRAMENTO, a municipal corporation ("City").

WHEREAS, the Owner owns real property (the "Property") in the City of Sacramento, County of Sacramento, State of California, more specifically described in Exhibit "A" and depicted in Exhibit "B", each of which exhibits is attached hereto and incorporated herein by this reference; and

WHEREAS, at the time of initial approval of the development project on the Property known as California State Lottery Headquarters Phase 2, the City's conditions of approval included a requirement for the Project to employ on-site control measures to minimize pollutants in urban runoff; and

WHEREAS, the Owner has chosen to install Stormwater Planters (collectively referred to herein as the "Measure"), as the on-site control measure to minimize pollutants in urban runoff; and

WHEREAS, the Measure has been installed in accordance with plans and specifications accepted by the City; and

WHEREAS, the Measure, with installation on private property and draining only private property, is a private facility and all maintenance or replacement of the Measure is the sole responsibility of the Owner in accordance with the terms of this Agreement; and

WHEREAS, the Owner is aware and agrees that periodic and continuous maintenance, including, but not necessarily limited to, removal of sediment, trash and debris, maintenance of vegetation, and repairs to any ruts or holes, is required to assure peak performance of the Measure and that, furthermore, such maintenance activity will require compliance with all local, State, or Federal laws and regulations, including those pertaining to waste disposal methods, in effect at the time such maintenance occurs.
NOW THEREFORE, it is mutually stipulated and agreed as follows:

1. The foregoing recitals are incorporated herein by this reference.

2. Owner hereby provides the City or City’s designee complete access to the Measure and its immediate vicinity at any time and for any duration, upon twenty-four (24) hour advance notice in writing, for the purpose of inspection, sampling and testing of the Measure. City shall make every effort at all times to minimize or avoid interference with Owner’s use of the Property.

3. Owner shall use its best efforts diligently to maintain the Measure in a manner assuring peak performance at all times, including but not necessarily limited to performance of the maintenance and repair measures specified on Exhibit “C”, attached hereto and incorporated herein by this reference. All reasonable precautions shall be exercised by Owner and Owner’s representative or contractor in the maintenance of vegetation, the removal and extraction of material(s) from the Measure and the ultimate disposal of the material(s) in a manner consistent with all relevant laws and regulations in effect at the time. As may be requested from time to time by the City, the Owner shall provide the City with documentation identifying the material(s) removed, the quantity, and disposal destination.

4. If Owner, or its successors or assigns, fails to accomplish the necessary maintenance contemplated by this Agreement, within five (5) days of being given written notice by the City, the City is hereby authorized (but shall not have any obligation) to cause any maintenance necessary to be done and charge the entire cost to the Owner or Owner’s successors or assigns, including administrative costs and interest thereon at the maximum rate authorized by the Civil Code from the date of notice of the cost until paid in full.

5. The City may require the Owner to post security in a form and for a time period satisfactory to the City, to guarantee performance of the obligations stated herein. Should the Owner fail to perform its obligations as required under this Agreement, the City may, in the case of a cash deposit or letter of credit, use the proceeds to pay costs incurred by the City to take any action(s) authorized by this Agreement, or in the case of a surety bond, the City may require the sureties to perform the Owner’s obligations under the Agreement.

6. This Agreement shall be recorded in the Office of the Recorder of Sacramento County, California, at the expense of the Owner and shall constitute notice to all successors and assigns of the title to the Property of the obligations herein set forth, and also a lien in such amount as will fully reimburse the City for costs incurred pursuant to Section 4, above, including interest as hereinabove set forth, subject to foreclosure in event of default in payment.

7. In the event of legal action occasioned by any default or action of the Owner, or its successors or assigns, then the Owner, on behalf of itself and its successors or assigns, agree(s) to pay all costs incurred by the City in enforcing the terms of this Agreement, including reasonable attorney’s fees and costs, and further agrees that the same shall become a part of the lien against the Property.
8. It is the intent of the parties hereto that burdens and benefits herein undertaken shall constitute covenants that run with the Property and constitute a lien against the Property.

9. The obligations herein undertaken shall be binding upon the heirs, successors, executors, administrators and assigns of the parties hereto. The term “Owner” shall include not only the present Owner, but also its heirs, successors, executors, administrators, and assigns. Owner shall notify any successor to title of all or any part of the Property of the existence of this Agreement. Owner shall provide such notice prior to such successor obtaining an interest in all or part of the Property. Owner shall provide a copy of such notice to the City at the same time such notice is provided to the successor. If an Owner shall convey all of its interest in the Property, the Owner shall be released from any obligations arising under this Agreement in connection with the maintenance of or failure to maintain the Measure occurring after the date of such conveyance.

10. Time is of the essence in the performance of this Agreement.

11. Any notice to a party required or called for in this Agreement shall be served in person, or by deposit in the U.S. Mail, first class postage prepaid, to the address set forth below. Notice(s) shall be deemed effective upon receipt, or seventy-two (72) hours after deposit in the U.S. Mail, whichever is earlier. A party may change a notice address only by providing written notice thereof to the other party.

IF TO CITY:

Director of Utilities – Stormwater Program
City of Sacramento, Department of Utilities
1395 35th Avenue
Sacramento, CA 95822

IF TO OWNER:

California State Lottery
700 North 10th Street
Sacramento, CA 95811

12. If Owner consists of more than one party, each person, entity or other party described as the “Owner” in the first paragraph of this Agreement and/or executing this Agreement for Owner shall be jointly and severally liable for each and every obligation and requirement imposed on Owner herein.

13. The Owner acknowledges and agrees that nothing contained in this Agreement reduces or otherwise affects Owner's responsibility to comply with all applicable provisions of the City of Sacramento’s Stormwater Management and Discharge Control Code, set forth in Chapter 13.16 of the Sacramento City Code, and nothing contained in this Agreement shall in any way limit the City’s right to enforce any provisions of the Stormwater Management and Discharge Control Code in accordance with the provisions of that Code.
IN WITNESS THEREOF, the parties hereto have affixed their signatures as of the date first written above.

APPROVED AS TO FORM:

City Attorney

CITY OF SACRAMENTO:

Dave Brent
Director, Department of Utilities

OWNER:

Signature of Authorized Person

Print Name: Robert T. O’Neill
Title: Director, California State Lottery

ATTEST:

City Clerk Date 1-8-13

NOTARIES ON FOLLOWING PAGE
State of California
County of Sacramento

On **Dec 12, 2012** before me, **Glenita Lewis, Notary Public**

(insert name and title of the officer)

personally appeared **Robert T. O'Neill**,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature **Glenita Lewis**

**GLENITA LEWIS**
Commission No. 1984299
NOTARY PUBLIC-CALIFORNIA
SACRAMENTO COUNTY
My Comm. Expires JULY 8, 2016
CALIFORNIA ALL-PURPOSE ACKNOWLEDGEMENT

STATE OF CALIFORNIA
COUNTY OF Sacramento

On December 27, 2012 before me, Grace L. Garcia, Notary Public

personally appeared, Dave Brent

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she they executed the same in his/her their authorized capacity(ies), and that by his/her their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

GRACE L. GARCIA
NOTARY PUBLIC

OPTIONAL INFORMATION

THIS OPTIONAL INFORMATION SECTION IS NOT REQUIRED BY LAW BUT MAY BE BENEFICIAL TO PERSONS RELYING ON THIS NOTARIZED DOCUMENT.

TITLE OR TYPE OF DOCUMENT: Stormwater Treatment Measure Access and Maintenance Agreement

DATE OF DOCUMENT: December 27, 2012

NUMBER OF PAGES: 9 (9 plus 2 notary pages)

SIGNERS(S) OTHER THAN NAMED ABOVE

SIGNER'S NAME __________________________  SIGNER'S NAME __________________________

RIGHT THUMBPRT  RIGHT THUMBPRT

To order supplies, please contact McGlone Insurance Services, Inc. at (916) 484 0804.
EXHIBIT A

[Legal Description of Parcel]
Exhibit "A"

Legal Description

Parcel No. 1:

Beginning at a point on the Easterly boundary line of that certain tract of land described in Deed executed by English Estate Company to Central Pacific Railway Company, dated December 29, 1944, and recorded in the office of the Recorder of Sacramento County on March 13, 1945, in Book 1130 of Official Records at Page 150, from which an iron pipe monument marking the intersection of the centerline of the Northerly production of 7th Street of the City of Sacramento within the centerline of North B Street bears North 71°00' West 805.33 feet along the East line of 7th Street; thence South 19°07' West 1745.23 feet along the East line of 7th Street; and thence North 71°00' West 40.00 feet; thence from said point of beginning South 71°00' East 525.32 feet to a point on the West line of 10th Street, as said street is shown and so designated on the map entitled "Map of Part of Sacramento City lying between 10th and 25th Streets, A Street and the American River" filed in the office of the County Recorder of Sacramento County April 24, 1850, Book 1 of Surveys, Map No. 8; thence North 19°07' East 1060.41 feet along said West line of 10th Street, thence North 71°00' West 625.32 feet to a point on the Easterly boundary line of said 3.78 acre tract; thence South 19°07' West 1060.41 feet along said Easterly boundary to the point of beginning.

Parcel No. 2:

All that portion of North 10th Street lying between Richard Boulevard Road the American River in the City of Sacramento, described as follows:

Beginning at a found 1" iron pipe tagged L.S. 3931 marking the Westerly right-of-way of 10th Street and the Southerly boundary line of Parcel No. 14, as shown on that certain record of Survey filed in Book 26 of Surveys, Page 28, Official Records of Sacramento County; thence, from said point of beginning, leaving said Southerly line, along the arc of a tangent curve to the left, concave Easterly, having a radius of 20.00 feet, subtended by a chord bearing South 11°39'27" West 4.76 feet; thence, South 04°49'08" West 41.73 feet; thence, along the arc of a tangent curve to the right, concave Westerly, having a radius of 20.00 feet, subtended by a chord bearing South 11°39'27" West 4.76 feet; thence, South 18°29'45" West 995.07 feet; thence, along the arc of a tangent curve to the right, concave Westerly, having a radius of 20.00 feet, subtended by a chord bearing South 25°20'03" West 4.76 feet; thence, South 32°10'22" West 10.57 feet; thence, North 71°30'15" West 7.93 feet to a point in the Westerly right-of-way line of said 10th Street, a public street having a width of eighty (80.00) feet; thence, along said Westerly line, North 18°29'45" East 1060.07 feet to the point of beginning.

Apn: 001-0020-009
EXHIBIT B
[Map/Illustration]
EXHIBIT B
STORMWATER TREATMENT DEVICE/MEASURE
ACCESS AND MAINTENANCE AGREEMENT

NOTE:
CITY REQUIRES ENGINEER INSPECTION AND CERTIFICATION UPON COMPLETION OF THE PLANTER TO ENSURE THE PLANTER IS BUILT PER PLAN DETAILS. CERTIFICATION LETTER SHOULD BE MAILED TO CITY OF SACRAMENTO DEPARTMENT OF UTILITIES WATER QUALITY (1995 35TH AVE., SACRAMENTO, CA 95822).
FIGURE 1 - WATER QUALITY MEASURES

CA LOTTERY HEADQUARTERS - PHASE 2

NOTE:
CITY REQUIRES ENGINEER INSPECTION AND CERTIFICATION UPON COMPLETION OF THE PLANTER TO ENSURE THE PLANTER IS BUILT PER PLAN DETAILS. CERTIFICATION LETTER SHOULD BE MAILED TO CITY OF SACRAMENTO DEPARTMENT OF UTILITIES WATER QUALITY (1395 35TH AVE., SACRAMENTO, CA 95822).

LEGEND:
- WATER QUALITY SHED LOCATION
- BOUNDARY
- SHED LOCATION NUMBER
- STORMWATER PLANTER LOCATION

SCALE: 1" = 30'
MAY 2012
NOLTE VERTICALFIVE
Long-Term Maintenance

The local permitting agencies in the Sacramento and South Placer areas will require execution of a maintenance agreement or permit with the property owner for projects including a stormwater planter. Check with the local permitting agency about the timing for execution of the agreement. Such agreements will typically include requirements such as those outlined in Table SP-2. The property owner or his/her designee will be responsible for compliance. See Appendix B for additional information about maintenance requirements and sample agreement language.

Table SP-2. Inspection and Maintenance Recommendations for Stormwater Planter

<table>
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<tr>
<th>Activity</th>
<th>Schedule</th>
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<tbody>
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<td>Trim vegetation (as applicable) and remove weeds to limit unwanted vegetation.</td>
<td>As needed</td>
</tr>
<tr>
<td>Remove litter and debris from landscape area.</td>
<td>As needed</td>
</tr>
<tr>
<td>Use integrated pest management (IPM) techniques to reduce use of chemical pesticides and herbicides.</td>
<td>Monitor for pests regularly and take other action as needed</td>
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<tr>
<td>Inspect the planter to determine if runoff is infiltrating properly.</td>
<td>At least twice per year during storm events. Additional inspections after periods of heavy runoff are desirable.</td>
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<tr>
<td>If infiltration is significantly reduced, remove and replace topsoil and sand/peat layer.</td>
<td>May be required every 5 to 10 years or more frequently, depending on sediment loads</td>
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<tr>
<td>Reconstruct or replace the control measure when it is no longer functioning properly.</td>
<td>See projected lifespan in Appendix B for informational purposes.</td>
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**PM WORK ORDER**

**06201600003**

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**Remark:** Sign & F wk completed by Landscape crew wkly.

**Procedure Code**

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Storm Water Treatment Planters inspected every month and/or after long dry period, large storms and spills.

Inspect:
1. Sediment conditions and depth
2. Water levels and observations (sheen, smell etc...)
3. Condition of vegetation (Height, survival rates, invasive species present, etc.) - Replace and manage (mow, weeding, etc.)
4. Condition of physical properties such as inlets, outlets, piping, fences, irrigation facilities, and side slopes. - Record damage and replace items.
5. Presence of insects or vectors - Record Control Activities
6. Identify safety hazards - Eliminate.

**Description**

Storm Water Treatment Planters inspected every month and/or after long dry period, large storms and spills.

Inspect:
1. Sediment conditions and depth
2. Water levels and observations (sheen, smell etc...)
3. Condition of vegetation (Height, survival rates, invasive species present, etc.) - Replace and manage (mow, wedding, etc.)
4. Condition of physical properties such as inlets, outlets, piping, fences, irrigation facilities, and side slopes. - Record damage and replace items.
5. Presence of insects or vectors - Record Control Activities
6. Identify safety hazards - Eliminate.

**Clock/Name**

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| Emilio Martinez |

**Usage Reading:**

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**Comments:**

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PM FORM

MAIN RECORD

EQ#:      SWTP
JOB#: 1
PM ACTIVE: Y
PRIORITY:
PM ORDER:
PM RESCHEDULE TYPE: 2
GROUP: FAC

REMARK: Sign off wk completed by Landscape crew wkly.

FREQUENCY: 1
PM BY MONTH: Y
NEXT DUE DATE: 07/18/2016
LEAD TIME: 0
PM LAST DONE: 05/19/2016

FREQ. METER 1: 0.00
NEXT DUE: 0.00
ADVANCE: 0.00
LAST METER 1: 0.00
METER UNITS:

FREQ. METER 2: 0.00
NEXT DUE 2: 0.00
ADVANCE 2: 0.00
LAST METER 2: 0.00
METER 2 UNITS:

WORK ORDER ACTIVE FOR THIS JOB: 06201600003

DESCRIPTION:
Storm Water Treatment Planters inspected every month and/or after long dry period, large storms and spills.
Inspect:
1. Sediment conditions and depth
2. Water levels and observations (sheen, smell etc...)
3. Condition of vegetation (Height, survival rates, invasive species present, etc.) - Replace and manage (mow, wedding, etc.)
4. Condition of physical properties such as inlets, outlets, piping, fences, irrigation facilities, and side slopes. - Record damage and replace items.
5. Presence of insects or vectors - Record Control Activities
6. Identify safety hazards - Eliminate.

LABOR

CLOCK CRAFT EST. HOURS REG. HOURS ACCOUNT
EMARTINEZBUS 0.00 0.00

REMARK:

PROCEDURES

CODE NAME
SWTP

PM NEXT DUE

07/18/2016
08/18/2016
09/18/2016
10/18/2016
11/18/2016