BMP Pilot Studies

Bi-Weekly Status

BMP Pilot Projects in Los Angeles and San Diego Counties.

December 18, 1998
REVISED 1/5/99

Robert Bein, William Frost & Associates
CONSTRUCTION ACTIVITIES

District 7 BMP Pilot Projects

Construction Activities, Schedule, Issues / Solutions, Financial Review

PS&E Pilot Projects

Location 1 (MW) I-605/SR-91 Contract No. 07-191204 Infiltration Basin

A meeting was held with the contractor to discuss the change order and project schedule. Contractor will re-mobilize on Tuesday, Dec. 22. No construction activities performed this week.

Schedule

First working day per contract is November 6, 1998. Contract Change Order will extend completion date to end of January. Construction is 15 percent complete.

Issues / Solutions

A meeting was held to resolve change order issues.

Financial Review

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>I-605/SR-91</td>
<td>11-6-98</td>
<td>1-13-99</td>
<td>1-31-99</td>
<td>$255,646</td>
<td>$2,000 Traffic Control $1,000 Lead Sampling $2,000 Maintain Elec. Sys $1,000 Rem. Buried Objects $2,900 Grading Revision</td>
<td>Total $264,546</td>
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</tbody>
</table>
Location 1 (BC) I-5/I-605 Contract No. 07-191104 Extended Detention Basin

Construction Activities

Installation of the drainage system has started.

Schedule

First working day per contract is November 4, 1998. Site construction on schedule. Construction is 20 percent complete.

Issues / Solutions N/A

Financial Review

<table>
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</thead>
<tbody>
<tr>
<td>1 I-5/I-605</td>
<td>11-4-98</td>
<td>1-6-99</td>
<td>N/A</td>
<td>$119,511</td>
<td>$1,500 Traffic Control $1,000 Lead Sampling Total $2,500</td>
<td>$122,011</td>
</tr>
</tbody>
</table>

Location 2 (BC) I-605/SR-91 Contract No. 07-191104 Extended Detention Basin

Construction Activities

Installation of the drainage system has started.

Schedule

First working day per contract is November 4, 1998. Site construction on schedule. Construction is 28 percent complete.

Issues / Solutions None this week.
## Financial Review

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<tr>
<td>2 I-605/SR-91</td>
<td>11-4-98</td>
<td>1-6-99</td>
<td>N/A</td>
<td>$119,511</td>
<td>$1,500 Traffic Control $1,000 Lead Sampling Total $2,500</td>
<td>$122,011</td>
</tr>
</tbody>
</table>

## Procurement Pilot Projects

### Brown and Caldwell Sites

#### Location 1 Alameda Maintenance Station Oil/Water Separator

**Construction Activities**

No major activity this week. Construction started on 12/18/98.

**Schedule**

First working day scheduled for December 18, 1998.

**Issues / Solutions**

N/A

### Location 2 Eastern Maintenance Station Media Filter

**Construction Activities**

Field crews are installing pre-cast concrete inlet and sampling/metering boxes. Associated piping and electrical conduit are also being installed. Two-man crew
installing rock around the exterior of the wall area where shoring was removed. Catch basin was installed.

Change orders for an additional shoring cost of $47,670 and for utility relocation are currently being reviewed.

**Schedule**

First working day September 25, 1998. Site construction on schedule. Construction is 92 percent complete.

**Issues / Solutions** N/A.

**Financial Review**

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<th>Estimated Contract Change Orders</th>
<th>Anticipated Additional Shoring Cost (under negotiation)</th>
<th>Estimated Final Cost Including CCO and State Furnished Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Eastern MS</td>
<td>9-25-98</td>
<td>12-8-98</td>
<td>1-11-99</td>
<td>$267,570</td>
<td>$16,000 Utilities</td>
<td>$47,670</td>
<td>$331,240</td>
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</table>

**Location 3 Foothill Maintenance Station Media Filter**

**Construction Activities**

Completed installation of outside wall forms and poured concrete walls. Concrete curing continues next week.

A change order for an additional shoring cost of $68,955 is currently being reviewed.

**Schedule**

First working day October 1, 1998. Site construction on schedule. Construction is 68 percent complete.

**Issues / Solutions** N/A

**Financial Review**

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<th>Estimated Final Cost Including CCO and State Furnished Materials</th>
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<tbody>
<tr>
<td>3 Foothill MS</td>
<td>10-1-98</td>
<td>1-4-99</td>
<td>N/A</td>
<td>$400,647</td>
<td>N/A</td>
<td>$68,955</td>
<td>$469,602</td>
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</table>
Location 4 Termination Park and Ride Media Filter

Construction Activities

The structure walls have cured and the forms have been stripped. Work is progressing to patch the snap tie holes.

Change orders for an additional shoring cost of $66,132 and utility relocation are currently being reviewed.

Schedule

First working day October 1, 1998. Site construction on schedule. Construction is 75 percent complete.

Issues / Solutions None this week.

Financial Review

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</tr>
</thead>
</table>

Location 6 Via Verde Park and Ride Multi Chamber Treatment Train

Construction Activities

Completed excavation of basin and the installation of shoring. Crews are installing slab forms and re-enforcing steel.

Change orders for an additional shoring cost of $39,663 and boulder coring cost of $14,000 are currently being reviewed.
Schedule

First working day October 8, 1998. Site construction on schedule. Construction is 35 percent complete.

Issues / Solutions

None this week.

Financial Review

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<tbody>
<tr>
<td>6 Via Verde Park &amp; Ride</td>
<td>10-8-98</td>
<td>1-15-99</td>
<td>N/A</td>
<td>$309,633</td>
<td>$14,000 core boulders</td>
<td>$39,663</td>
<td>$363,696</td>
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Location 8 Lakewood Park and Ride Multi Chamber Treatment Train

Construction Activities

Drilling and installing H-beams for shoring system.

A change order for an additional shoring cost of $57,150 is currently being reviewed.

Schedule

Drilling began on 12/17/98. Construction is 5 percent complete.

Issues / Solutions N/A

Financial Review

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<tbody>
<tr>
<td>8 Lakewood Park &amp; Ride</td>
<td>12-4-98</td>
<td>2-4-99</td>
<td>N/A</td>
<td>$388,037</td>
<td>N/A</td>
<td>$57,150</td>
<td>$445,187</td>
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</table>
Montgomery Watson Sites

Location 1 Package 1 Altadena Maintenance Station Bio-Strip and Infiltration Trench

Construction Activities

The H beams are all installed and the filter pit has been excavated. The lysimeter and monitoring wells are installed with Richard Swatz (Hydrogeologist) supervision. Wall forms were removed. The rock for the trench drain pit has been delivered.

A change order for relocation of the infiltration trench due to water line easements is currently being reviewed.

Schedule

First working day October 5, 1998. Site construction is behind schedule due to redesign of infiltration trench to avoid utilities. Construction is 50 percent complete.

Issues / Solutions

N/A.

Financial Review

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<th>Estimated Final Cost Including CCO and State Furnished Materials</th>
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<tbody>
<tr>
<td>1 Package 1 Altadena</td>
<td>10-5-98</td>
<td>12-18-99</td>
<td>2-19-99</td>
<td>$197,574</td>
<td>N/A</td>
<td>$4,219</td>
<td>$201,793</td>
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</table>

Location 6 Package 1 Foothill Maintenance Station Catch Basin Insert

Construction Activities

The catch basin was re-installed and asphalt installed around it on 12/17/98. Concrete for equipment pad was poured.

Schedule

First working day October 5, 1998. Site construction on schedule. Construction is 80 percent complete.

Issues / Solutions

None this week.
Financial Review

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<tbody>
<tr>
<td>6 Package 1 Foothill</td>
<td>10-5-98</td>
<td>12-18-98</td>
<td>12-28-98</td>
<td>$67,730</td>
<td>N/A</td>
<td>$67,730</td>
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Location 7 Package 1 Las Flores Maintenance Station Catch Basin Insert

Construction Activities

Catch basins being too high have been corrected by grinding down the edge and applying cold galvanized on the ground down areas. Construction is complete, except for final clean-up and placement of catch basin insert.

Schedule

First working day October 5, 1998. Site construction on schedule. Construction is 98 percent complete.

Issues / Solutions

None this week.

Financial Review

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<tbody>
<tr>
<td>7 Package 1 Las Flores</td>
<td>10-5-98</td>
<td>12-18-98</td>
<td>12-28-98</td>
<td>$81,431</td>
<td>N/A</td>
<td>$81,431</td>
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</table>

Location 8 Package 1 Rosemead Maintenance Station Catch Basin Insert

Construction Activities

Concrete vault which sits above grade was lowered. Concrete was placed in the two flumes on 12/16/98 and in the two equipment platforms.

Schedule

First working day October 5, 1998. Site construction on schedule. Construction is 90 percent complete.
Issues / Solutions  None this week.

Financial Review

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<tbody>
<tr>
<td>8 Package 1</td>
<td>10-5-98</td>
<td>12-18-98</td>
<td>12-28-98</td>
<td>$59,390</td>
<td>N/A</td>
<td>$59,390</td>
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</table>

Location 2 Package 2 I-605/SR-91 Interchange Bio Strip & Swale

Construction Activities

Special advance notice sign was placed. Traffic control devices can not be installed for 10 days. Traffic control devices (K-rail) is scheduled to be installed on Dec. 22.

Schedule

First working day November 30, 1998.

Issues / Solutions  N/A

Financial Review

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<tbody>
<tr>
<td>2 Package 2</td>
<td>11-30-98</td>
<td>1-29-99</td>
<td>N/A</td>
<td>$166,715</td>
<td>N/A</td>
<td>$23,895</td>
<td>$190,610</td>
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</tbody>
</table>

Location 3 package 2 Cerritos Maintenance Station Bio Swale

Construction Activities

Clearing and grubbing is complete. Preliminary grading has been completed.

Schedule

First working day November 30, 1998. Construction is 5 percent complete.

Issues / Solutions  N/A
Financial Review

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</tr>
</thead>
<tbody>
<tr>
<td>3 Package 2 Cerritos MS</td>
<td>11-30-98</td>
<td>1-29-99</td>
<td>N/A</td>
<td>$57,727</td>
<td>N/A</td>
<td>$1,407</td>
<td>$59,134</td>
</tr>
</tbody>
</table>

Location 4 package 2 I-5/I-605 Bio Swale

Construction Activities

Special advance notice sign has been placed. Traffic control devices can not be installed for 10 days due to the connector closure required.

Schedule

First working day November 30, 1998.

Issues / Solutions

The maintenance pullout may not be necessary, which would reduce the construction cost and schedule. Caltrans maintenance staff is reviewing situation.

Financial Review

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</tr>
</thead>
<tbody>
<tr>
<td>4 Package 2 I-5/I-605</td>
<td>11-30-98</td>
<td>1-29-99</td>
<td>N/A</td>
<td>$124,575</td>
<td>($35,000) Delete Maint. Pullout</td>
<td>$8,434</td>
<td>$98,009</td>
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</table>

Location 5 package 2 I-605/Del Amo Bio Swale

Construction Activities

A notice to start construction sign was installed on site. A 10-day waiting period is required prior to start of construction. Inspector allows only 3 days waiting time and the “K” rail was installed along the shoulder of the freeway on 12/17/98.
Schedule

First working day November 30, 1998. Construction is 2 percent complete.

Issues / Solutions

N/A

Financial Review

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</tr>
</thead>
<tbody>
<tr>
<td>5 Package 2 I-605/ Del Amo</td>
<td>11-30-98</td>
<td>1-29-99</td>
<td>N/A</td>
<td>$119,895</td>
<td>N/A</td>
<td>$4,921</td>
<td>$124,816</td>
</tr>
</tbody>
</table>

Location 1 package 3 I-210 West of Orcas Ave Trapping Catch Basin.

Awaiting Notice-to-Proceed from Caltrans. The design is being reviewed for possible reduction of construction cost.

Location 2 package 3 I-210 East of Orcas Ave Trapping Catch Basin.

Awaiting Notice-to-Proceed from Caltrans. The design is being reviewed for possible reduction of construction cost.

Location 3 package 3 I-210 East of Filmore Trapping Catch Basin.

Awaiting Notice-to-Proceed from Caltrans. The design is being reviewed for possible reduction of construction cost.

Location 4 package 3 I-270 East of Van Nuys Trapping Catch Basin.

Awaiting Notice-to-Proceed from Caltrans. The design is being reviewed for possible reduction of construction cost.
San Diego County BMP Pilot Projects
Construction Activities, Schedule, Issues / Solutions, Financial Review

PS&E Pilot Projects

Location 1 I-5/SR-56 Extended Detention Basin

Construction Activities

Activities this week include hydroseeding of basin banks and paving of access road. Clean-up of site is anticipated for next week.

Schedule

First working day per contract is September 14, 1998. Construction is 95 percent complete.

Issues / Solutions

Field Memo No. 21 was issued. Drainage quantities were updated. The drainage quantity sheets address an initial request by D11 RE to clarify and confirm the original bid quantities. In addition, the quantities reflect known, quantifiable changes to the drainage plans, profiles, and details per previous Field Memorandums issued during the course of construction. No additional changes are anticipated, consequently, the revised final quantities were submitted.

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</thead>
<tbody>
<tr>
<td>1 I-5/SR-56</td>
<td>9-14-98</td>
<td>11-18-98</td>
<td>12-31-98</td>
<td>$130,739</td>
<td>$10,000 Spillway excavation, $7,100 Import borrow, $1,300 access road, $1,500 Flume</td>
<td>$150,639</td>
</tr>
</tbody>
</table>

Location 2 SR-78/I-15 Extended Detention Basin

Construction Activities
Minor construction occurred this week. Clean-up of site is planned for next week.

Schedule

First working day per contract is September 14, 1998. Construction is 98 percent complete.

Issues / Solutions

Field Memo No. 21 was issued. Drainage quantities were updated. The drainage quantity sheets address an initial request by D11 RE to clarify and confirm the original bid quantities. In addition, the quantities reflect known, quantifiable changes to the drainage plans, profiles, and details per previous Field Memorandums issued during the course of construction. No additional changes are anticipated, consequently, the revised final quantities were submitted.

Financial Review

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<tbody>
<tr>
<td>I-15/SR-78</td>
<td>9-14-98</td>
<td>11-18-98</td>
<td>12-31-98</td>
<td>$657,342</td>
<td>($240,500) Concrete lining deletion</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$600,000 Removal man made buried objects</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td>$1,500 Flume</td>
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<td></td>
<td></td>
<td>Total $361,000</td>
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</table>

Location 3 I-5/La Costa Infiltration Basin

Construction Activities

Activity this week is primarily backfilling of pipeline. Activities next week is pending issue with resolution of percolation problem in basin.

Schedule

First working day per contract is September 14, 1998. Construction is 70 percent complete.

Issues / Solutions

Field Memo No. 21 was issued. Drainage quantities were updated. The drainage quantity sheets address an initial request by D11 RE to clarify and confirm the original bid quantities. In addition, the quantities reflect known, quantifiable changes to the drainage plans, profiles, and details per previous Field Memorandums issued during the course of construction. No additional changes are anticipated, consequently, the revised final quantities were submitted.
Financial Review

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</tr>
</thead>
<tbody>
<tr>
<td>3 I-5/La Costa</td>
<td>9-14-98</td>
<td>11-18-98</td>
<td>N/A</td>
<td>$208,221</td>
<td>$29,400 Removal of unsuitable material $2,000 Removal of unsuitable material $400 Flagging Total $31,800</td>
<td>$240,021</td>
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</tbody>
</table>

Procurement Pilot Projects

Location 1 Kearny Mesa Maintenance Station Media Filter (Compost)

Construction Activities

Activities this week include revising of vault location to avoid existing utilities, construction staking, pavement removal, and excavation for vaults. Excavation for vaults is planned for next week.

Schedule

First working day per contract is November 10, 1998. Construction is 15 percent complete.

Issues / Solutions  None this week.

Financial Review

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<tbody>
<tr>
<td>1 Kearney Mesa MS</td>
<td>11-10-98</td>
<td>12-17-98</td>
<td>1-20-99</td>
<td>$298,797</td>
<td>$6,300 Additional canisters $5,000 Site Revision Total $11,300</td>
<td>$310,097</td>
</tr>
</tbody>
</table>
Location 2 Escondido Maintenance Station Media Filter (Sand)

Construction Activities

Activities this week include installation of access doors and frame, and pipeline construction. Pouring concrete around vault frame and continuation of pipeline construction is planned for next week.

Schedule

First working day per contract is November 2, 1998. Construction is 75 percent complete.

Issues / Solutions

None this week.

Financial Review

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<tbody>
<tr>
<td>2 Escondido MS</td>
<td>11-2-98</td>
<td>12-23-98</td>
<td>1-8-99</td>
<td>$490,405</td>
<td>($46,000) Substitution with epoxy coated</td>
<td></td>
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<td></td>
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<td></td>
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<td></td>
<td>$5,000 add guard posts</td>
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<td></td>
<td>$2,000 Elect Conduit</td>
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<td>Total ($39,000)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$451,405</td>
<td></td>
</tr>
</tbody>
</table>

Location 3 La Costa Park and Ride Media Filter (Sand)

Construction Activities

Activities this week include minor grading, installation of filter materials in the vault, pavement removal, and installation of manholes. Work on concrete ditches and fine grading is planned for next week.

Schedule

First working day per contract is September 16, 1998. Construction is 90 percent complete.

Issues / Solutions

None this week.
Financial Review

<table>
<thead>
<tr>
<th>Location</th>
<th>First Working Day</th>
<th>Scheduled Completion Date</th>
<th>Adjusted Completion Date</th>
<th>Bid Amount</th>
<th>Estimated Contract Change Orders</th>
<th>Estimated Final Cost Including CCO and State Furnished Materials</th>
</tr>
</thead>
</table>
| 3 La Costa Park & Ride | 9-16-98           | 11-2-98                    | 12-31-98                 | $ 208,955  | $20,000 Unsuitable materials excavation
8,000 Storm drain extension
($16,000) Delete electrical conduit
$5,000 Safety Railing/Steps
Total $17,000                                                     | $225,955                                                   |

Location 4 SR-78/I-5 Park and Ride Media Filter (Sand)

Construction Activities

Activity this week includes backfill around vault and grading. Grading and construction of minor structures is planned for next week.

Schedule

First working day October 26, 1998 with a completion of January 13, 1998. Construction is 75 percent complete.

Issues / Solutions

None this week.

Financial Review

<table>
<thead>
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<th>Location</th>
<th>First Working Day</th>
<th>Scheduled Completion Date</th>
<th>Adjusted Completion Date</th>
<th>Bid Amount</th>
<th>Estimated Contract Change Orders</th>
<th>Estimated Final Cost Including CCO and State Furnished Materials</th>
</tr>
</thead>
</table>
| 4 SR-78/I-5 Park & Ride | 9-23-98           | 11-16-98                   | 1-8-99                   | $ 224,502  | ($14,000) Revised vault location
$5,000 plant establishment
$4,000 Safety railing
Total $(5,000)                                                     | $219,502                                                   |

Location 5 Melrose Ave/SR-78 Bio Swale

Construction Activities

Activities this week include concrete forming for flume and installation of saltgrass. Flume installation, grading, and overside drains are planned for next week.
Schedule


Issues / Solutions None this week.

Financial Review

<table>
<thead>
<tr>
<th>Location</th>
<th>First Working Day</th>
<th>Scheduled Completion Date</th>
<th>Adjusted Completion Date</th>
<th>Bid Amount</th>
<th>Estimated Contract Change Orders</th>
<th>State Furnished Materials (Salt Grass)</th>
<th>Estimated Final Cost Including CCO and State Furnished Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 Melrose Ave/SR-78</td>
<td>10-7-98</td>
<td>11-19-98</td>
<td>12-31-98</td>
<td>87,038</td>
<td>$5,000 Unsuitable material</td>
<td>$17,221</td>
<td>$134,259</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$14,000 Salt grass installation</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$11,000 Plant establishment</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$2,000 Storm Drain Sediment</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>($2,000) Delete Seed</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Total $30,000</td>
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</tr>
</tbody>
</table>

Location 6 I-5 Palomar Airport Road Bio Strip

Construction Activities

Coordination with Caltrans on environmental issues and plan revisions were performed this week.

Schedule

Schedule will depend upon resolution and approval of environmental issues. Site is 1 percent complete.

Issues / Solutions

Environmental issues pending on site RE is coordinating. / Proceed with findings.

Financial Review

<table>
<thead>
<tr>
<th>Location</th>
<th>First Working Day</th>
<th>Scheduled Completion Date</th>
<th>Adjusted Completion Date</th>
<th>Bid Amount</th>
<th>Estimated Contract Change Orders</th>
<th>State Furnished Material (Salt Grass)</th>
<th>Estimated Final Cost Including CCO and State Furnished Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 I-5 Palomar Airport Road</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>$102,184</td>
<td>N/A</td>
<td>$6,678</td>
<td>$108,862</td>
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</tbody>
</table>
Location 7 Carlsbad Maintenance Station Bio Strip Infiltration Trench

Construction Activities

None reported for this week. Planned activities next week include installation of lysimeter, rock slope over infiltration trench, flume installation, and grading for paving.

Schedule

First working day per contract is October 12, 1998. Project began September 30, 1998. Construction is 75 percent complete.

Issues / Solutions

N/A.

Financial Review

<table>
<thead>
<tr>
<th>Location</th>
<th>First Working Day</th>
<th>Scheduled Completion Date</th>
<th>Adjusted Completion Date</th>
<th>Bid Amount</th>
<th>Estimated Contract Change Orders</th>
<th>State Furnished Materials (Salt Grass)</th>
<th>Estimated Final Cost Including CCO and State Furnished Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 Carlsbad MS</td>
<td>10-12-98</td>
<td>11-19-98</td>
<td>1-8-99</td>
<td>$157,800</td>
<td>$15,000 Unsuitable subgrade $7,000 Install salt grass $5,000 Additional paving $2,000 Elect. Conduit $5,000 Infiltration Trench ($18,400) Delete Bioswale bid item Total $15,600</td>
<td>$11,246</td>
<td>$184,646</td>
</tr>
</tbody>
</table>
Caltrans BMP Pilot Program Construction Estimate of Project Completion

District 7

BMP Site Name

% Completion

Project Completion Dates

District 11

BMP Site Name

% Completion

Project Completion Dates

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

I-5/SR-91 Interchange
I-5/SR-91 Interchange
Alameda MS
Eastern Regional MS
Foothill MS
Termination P&R
Via Verde P&R
Lakewood P&R
Alhambra MS
Foothills MS
Las Flores MS
Rosemead MS
I-5/SR-91 Interchange
Cerritos MS
I-51/605
I-605/Del Amo Ave.
I-210/West of Orcas Ave.
I-210/East of Orcas Ave.
I-210/East of Filmore St.
I-210/East of Van Nuys Blvd.
I-5/SR-56
I-15/SR-78
I-5/La Costa Ave.
Kearny Mesa MS
Escondido MS
La Costa P&R
SR-78/I-5 P&R
SR-78/Melrose Dr.
I-5/Palomar Airport Rd.
Carlsbad MS

1/31/99
1/6/99
1/6/99
1/27/99
1/11/99
1/4/99
1/18/99
1/15/99
2/4/99
1/15/99
12/28/98
12/28/98
12/28/98
1/29/99
1/29/99
1/29/99
1/29/99
1/29/99
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1/29/99
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12/31/98
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1:20/99
1:8/99
1:8/99
12/31/98
12/31/98
2/15/99
1:8/99
1:8/99

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

I-605/SR-91 Interchange
I-5/I-605 Intersection
I-605/SR-91 Intersection
Alameda MS
Eastern Regional MS
Foothill MS
Termination P&R
Via Verde P&R
Lakewood P&R
Alhambra MS
Foothills MS
Las Flores MS
Rosemead MS
I-605/SR-91 Interchange
Cerritos MS
I-5/I-605
I-605/Del Amo Ave.
I-210/West of Orcas Ave.
I-210/East of Orcas Ave.
I-210/East of Filmore St.
I-210/East of Van Nuys Blvd.
I-5/SR-56
I-15/SR-78
I-5/La Costa Ave.
Kearny Mesa MS
Escondido MS
La Costa P&R
SR-78/I-5 P&R
SR-78/Melrose Dr.
I-5/Palomar Airport Rd.
Carlsbad MS

12/31/98
12/31/98
12/23/98
1/20/99
1/8/99
12/31/98
1/8/99
12/31/98
2/15/99
1/8/99
1:8/99

H:\DATA\34123\WK1 YRPTS\12.18.98\WK1218R DOC
## DISTRICT 11 SUMMARY

<table>
<thead>
<tr>
<th>Location</th>
<th>First Working Day</th>
<th>Scheduled Completion Date</th>
<th>Adjusted Completion Date</th>
<th>Bid Amount</th>
<th>Estimated Contract Change Orders</th>
<th>State Furnished Material (Salt Grass)</th>
<th>Est. Final Cost Including CCO and State Furnished Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-5/SR-56</td>
<td>9-14-98</td>
<td>11-18-98</td>
<td>12-31-98</td>
<td>$130,739</td>
<td>$10,000 Spillway excavation&lt;br&gt;$7,100 Import borrow&lt;br&gt;$1,300 Access road&lt;br&gt;$1,500 Flume&lt;br&gt;Total $19,900</td>
<td>N/A</td>
<td>$150,639</td>
</tr>
<tr>
<td>2 I-15/SR-78</td>
<td>9-14-98</td>
<td>11-18-98</td>
<td>12-31-98</td>
<td>$657,342</td>
<td>($240,500) Concrete lining deletion&lt;br&gt;$600,000 Removal man made buried objects&lt;br&gt;$1,500 Flume&lt;br&gt;Total $361,000</td>
<td>N/A</td>
<td>$1,018,342</td>
</tr>
<tr>
<td>3 I-5/La Costa</td>
<td>9-14-98</td>
<td>11-18-98</td>
<td>N/A</td>
<td>$208,221</td>
<td>$29,400 Removal of unsuitable material&lt;br&gt;$2,000 Removal of unsuitable material&lt;br&gt;$400 Flagging&lt;br&gt;Total $31,800</td>
<td>N/A</td>
<td>$240,021</td>
</tr>
<tr>
<td>1 Kearney Mesa MS</td>
<td>11-10-98</td>
<td>12-17-98</td>
<td>1-20-99</td>
<td>$298,797</td>
<td>$6,300 Additional canisters&lt;br&gt;$5,000 Site Revision&lt;br&gt;Total $11,300</td>
<td>N/A</td>
<td>$310,097</td>
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<tr>
<td>2 Escondido MS</td>
<td>11-2-98</td>
<td>12-23-98</td>
<td>1-8-99</td>
<td>$490,405</td>
<td>($46,000) Substitution with epoxy coated&lt;br&gt;$5,000 add guard posts&lt;br&gt;$2,000 Elect Conduit&lt;br&gt;Total ($39,000)</td>
<td>N/A</td>
<td>$451,405</td>
</tr>
<tr>
<td>3 La Costa Park &amp; Ride</td>
<td>9-16-98</td>
<td>11-2-98</td>
<td>12-31-98</td>
<td>$208,955</td>
<td>$20,000 Unsuitable materials excavation&lt;br&gt;$8,000 Storm drain extension&lt;br&gt;($16,000) Delete electrical conduit&lt;br&gt;$5,000 Safety Railing/Steps&lt;br&gt;Total $17,000</td>
<td>N/A</td>
<td>$225,955</td>
</tr>
<tr>
<td>4 SR-78/I-5 Park &amp; Ride</td>
<td>9-23-98</td>
<td>11-16-98</td>
<td>1-8-99</td>
<td>$224,502</td>
<td>($14,000) Revised vault location&lt;br&gt;$5,000 plant establishment&lt;br&gt;$4,000 Safety railing&lt;br&gt;Total ($5,000)</td>
<td>N/A</td>
<td>$219,502</td>
</tr>
<tr>
<td>5 Melrose Ave/SR-78</td>
<td>10-7-98</td>
<td>11-19-98</td>
<td>12-31-98</td>
<td>87,038</td>
<td>$5,000 Unsuitable material&lt;br&gt;$14,000 Salt grass installation&lt;br&gt;$11,000 Plant establishment&lt;br&gt;$2,000 Storm Drain Sediment&lt;br&gt;($2,000) Delete Seed&lt;br&gt;Total $30,000</td>
<td>N/A</td>
<td>$17,221</td>
</tr>
<tr>
<td>6 I-5 Palomar Airport Road</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>$102,184</td>
<td>N/A</td>
<td>N/A</td>
<td>$6,678</td>
</tr>
<tr>
<td>7 Carlsbad MS</td>
<td>10-12-98</td>
<td>11-19-98</td>
<td>1-8-99</td>
<td>$157,800</td>
<td>$15,000 Unsuitable subgrade&lt;br&gt;$7,000 Install salt grass&lt;br&gt;$5,000 Additional paving&lt;br&gt;$2,000 Elect. Conduit&lt;br&gt;$5,000 Infiltration Trench&lt;br&gt;($18,400) Delete bio swale bid item&lt;br&gt;Total $15,600</td>
<td>N/A</td>
<td>$11,246</td>
</tr>
</tbody>
</table>

**SUBTOTAL (SITES UNDER CONSTRUCTION)**<br>$2,565,983 $442,600 $35,145 $3,043,728

I-5/Manchester (East)<br>Engineer’s Estimate = $394,800
I-5/La Costa<br>Engineer’s Estimate = $500,000

**GRAND TOTAL**<br>$3,938,528
## DISTRICT 7 SUMMARY

<table>
<thead>
<tr>
<th>Location</th>
<th>First Working Day</th>
<th>Scheduled Completion Date</th>
<th>Adjusted Completion Date</th>
<th>Bid Amount</th>
<th>Estimated Contract Change Orders</th>
<th>Anticipated Additional Shoring Cost (Under Neg.)</th>
<th>State Furnished Materials (Salt grass)</th>
<th>Estimated Final Cost Including CCO and State Furnished Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-605/SR-91</td>
<td>11-6-98</td>
<td>1-13-99</td>
<td>1-31-99</td>
<td>$255,646</td>
<td>$2,000 Traffic Control $1,000 Lead Sampling $2,000 Maintain Elec. Sys $1,000 Rem. Buried Objects $2,900 Grading Revision Total $8,900</td>
<td>N/A</td>
<td>$264,546</td>
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<tr>
<td>I-5/F-605</td>
<td>11-4-98</td>
<td>1-6-99</td>
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<td>$1,500 Traffic Control $1,000 Lead Sampling Total $2,500</td>
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<td>I-605/SR-91</td>
<td>11-4-98</td>
<td>1-6-99</td>
<td>N/A</td>
<td>$119,511</td>
<td>$1,500 Traffic Control $1,000 Lead Sampling Total $2,500</td>
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<td>$122,011</td>
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<td>Alameda MS</td>
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<td>Eastern MS</td>
<td>9-25-98</td>
<td>12-8-98</td>
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<td>$267,570</td>
<td>$16,000 Utilities</td>
<td>$47,670</td>
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<td>Foothill MS</td>
<td>10-1-98</td>
<td>1-4-99</td>
<td>N/A</td>
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<td>10-8-98</td>
<td>1-15-99</td>
<td>N/A</td>
<td>$309,633</td>
<td>$14,000 Boulder coring $400 Utilities</td>
<td>$39,663</td>
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<td>$57,150</td>
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<tr>
<td>Package 1 Altadena</td>
<td>10-5-98</td>
<td>12-18-98</td>
<td>2-19-99</td>
<td>$197,574</td>
<td>N/A</td>
<td>N/A</td>
<td>$4,219</td>
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<tr>
<td>Package 1 Foothill</td>
<td>10-5-98</td>
<td>12-18-98</td>
<td>12-28-98</td>
<td>$67,730</td>
<td>N/A</td>
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<td>Package 1 LasFlores</td>
<td>10-5-98</td>
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<td>12-28-98</td>
<td>$81,431</td>
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<tr>
<td>Package 1 Rosemead</td>
<td>10-5-98</td>
<td>12-18-98</td>
<td>12-28-98</td>
<td>$59,390</td>
<td>N/A</td>
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<tr>
<td>Package 2 I-605/SR-91</td>
<td>11-30-98</td>
<td>1-29-99</td>
<td>N/A</td>
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<td>$190,610</td>
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<td>Package 2 I-5/F-605</td>
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<td>1-29-99</td>
<td>N/A</td>
<td>$124,575</td>
<td>(35,000). Delete Maintenance Pullout</td>
<td>$8,434</td>
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<tr>
<td>Package 2 I-605/Del Amo</td>
<td>11-30-98</td>
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<td>N/A</td>
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<td>$4,921</td>
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<td><strong>SUBTOTAL (SITES UNDER CONSTRUCTION)</strong></td>
<td><strong>$3,280,623</strong></td>
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<td><strong>$13,800</strong></td>
<td></td>
<td><strong>$279,570</strong></td>
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<td><strong>$42,876</strong></td>
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<td>I-210/West of Orcas Ave.</td>
<td></td>
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<td>Bid Amount = $198,066</td>
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<tr>
<td>I-210/East of Orcas Ave.</td>
<td></td>
<td></td>
<td></td>
<td>Bid Amount = $236,688</td>
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<tr>
<td>I-210/East of Filmore St.</td>
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<td></td>
<td></td>
<td>Bid Amount = $300,575</td>
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</tr>
<tr>
<td>I-210/East of Van Nuys Blvd.</td>
<td></td>
<td></td>
<td></td>
<td>Bid Amount = $333,870</td>
<td></td>
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</tr>
<tr>
<td><strong>GRAND TOTAL</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>$4,686,068</strong></td>
<td></td>
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</tr>
</tbody>
</table>
OMM PLAN ACTIVITIES

VOLUME I

The final draft of Vol I remains with the Plaintiffs. A final document will be submitted to the Plaintiffs upon completion of revisions.

VOLUME II

Responses to NRDC comments on Vol II were forwarded to RBF this week. Once consensus to responses is finalized, OMM replacement pages will be submitted for incorporation into existing documents. BC provided District 11 (Marcelo Peinado) with Task Order amendment to finalize Vol II documentation and manage Vector Control District coordination and administration.

EXECUTION OF OMM

BC provided District 7 with cost details and a draft Task Order for OMM execution. BC continued the solicitation bids for analytical laboratories, which is expected to be finalized by early January. BC and KLI are preparing autosampling equipment for initial transport to BMP sites, where final installation is anticipated from mid-January through February. Field preparation continued.

MW/LC- Order was placed for purchase of monitoring equipment with American Sigma. Monitoring equipment for Foothill, Las Flores, and Rosemead maintenance stations was shipped on December 11. Task Order for OMM execution is at Caltrans HQ.

TRAINING/ORIENTATION

Training/orientation was conducted this week. The monitoring/sampling and maintenance lead crew members were briefed on Empirical Observation by Rich Horner (NRDC) on Dec. 7th. Caltrans Safety Training was conducted on the 10th, and BMP Pilot Classroom Orientation was held December 11th.

DATABASE

Caltrans, RBF, Law/Crandall, and Larry Walker and Associates are participating in the development of the master database. A draft version of the database is
scheduled for completion mid January. The database is intended as a depository for data collected during monitoring, sampling, and maintenance of the BMP sites. Upon completion, a read-only version of the database and/or reports generated from the database will be posted on the RBF website. The database will be updated on a bi-monthly basis. A coordination meeting with Caltrans, RBF, MW/LawCrandall is scheduled for Dec. 23 (Wednesday).

VECTOR ACTIVITIES

Background Vector Monitoring: Vector monitoring continues in both Districts 7 and 11.

Dean Messer of LWA contacted OMM consultants to appraise them on the status of the vector monitoring scope. LWA/RBF will be heading up the revisions and final distribution of Appendix IV of Volume II (Vector Control). Following the dissemination of this portion of the OMM program documentation, VCDs will be contacted for contract negotiations.

RBF and LWA met with the Vector Control Districts (VCDs) on Monday, December 7th to discuss the elimination of the draft MOU and presented the newly drafted Service Agreement. The VCDs expressed acceptance of this approach. They did indicate that they would have to take the Service Agreement before their boards. LWA will coordinate with the VCDs to establish not to exceed budgets to input into the Service Agreements. RBF revised Appendix IV to respond to comments made by the VCDs. These revisions will be forwarded to Caltrans for review and approval. In addition, RBF finalized the letters to be sent to the VCDs expressing Caltrans expectations for signature by Steve Borroum. Upon return of the letters, RBF will forward to the appropriate VCDs.

At the December 7th meeting, the County of San Diego expressed a desire to still go with the Agreement they drafted versus using the Service Agreement. As noted last week, RBF had reviewed the County of San Diego’s version of the new Agreement for Vector Services. RBF’s comments were forwarded to D11 (Caltrans) and LWA for review. Caltrans approved comments made by RBF. As a result of the County’s direction, RBF has forwarded these comments onto the County of San Diego for consideration.
DISTRICT 11 PROCUREMENT DESIGN ACTIVITIES

Project 4 – Constructed Wetland: I-5 (N/B)/La Costa Avenue

Emphasis of the effort has switched from the design of a Wet Basin at La Costa to the design of an Extended Detention Basin at the Manchester East site.

The groundwater will be measured once per month until construction begins (anticipated March 1999).

Project 1, Site 2 – Extended Detention Basin: I-5(NB)/Manchester Avenue

Phase II of the geotechnical investigation was completed. Upon arrival at the site, the project geologist discovered three dumped piles located on the site. Transite pipe (asbestos pipe) was located in the piles. Caltrans District 11 was notified upon discovery. The groundwater elevation was measured, and the basin invert design elevation decision was made to be 2 feet above the groundwater elevation. The groundwater will be measured once per month until construction begins (estimated March 1999).

A meeting with Marcelo Peinado was held at the site on Thursday, Dec. 12 to view the existing site conditions and discuss the basis of design. The site has several, well-established, large eucalyptus trees. The construction of the basin will not impact established trees. However, the site was recently landscaped with a variety of deciduous and coniferous trees (approximately 30-40 trees, 5-6 feet tall). In addition, underground irrigation was installed with a n irrigation head for each tree. The construction of the basin will require the relocation of the new trees and irrigation lines.

Survey is complete. The new topo reflects the current field conditions.
ENVIRONMENTAL AND JURISDICTIONAL ACTIVITIES

Regulatory Issues

A letter regarding a non-jurisdictional determination has been received from EPA.

Environmental Clearance

Wet Basin Site – RBF has forward a draft of the Coastal Development Application on to Caltrans for review and comment. No comments have been received this week.

Manchester Site – RBF has initiated preparation of the Coastal Development Application.