

APPENDIX J

***Los Angeles River Watershed
Trash Compliance Monitoring Report***

**LOS ANGELES RIVER WATERSHED
TRASH TOTAL MAXIMUM DAILY LOAD MONITORING AND ANNUAL REPORT
IMPLEMENTATION YEAR 2
OCTOBER 1, 2008, to SEPTEMBER 30, 2009**

Background

On September 19, 2001, the California Regional Water Quality Control Board – Los Angeles Region (Regional Board) adopted the Los Angeles River Trash Total Maximum Daily Load (TMDL). The TMDL was subsequently set aside on June 8, 2006, due to issues with the California Environmental Quality Act (CEQA). On August 9, 2007, the Regional Board adopted the revised TMDL which resolved the issues with the CEQA. The revised TMDL implementation schedule requires a 40 percent reduction of the baseline waste load allocation the year after the establishment of the revised TMDL (2008). Thereafter, 10 percent progressive reductions of the baseline waste load allocation are generally required each year until the numeric target of zero trash is achieved (2016). Implementation Year 2 (October 1, 2008, to September 30, 2009) requires a reduction of 45 percent of the waste load allocation within the Los Angeles County (County)-unincorporated areas.

Potential Point Sources and Responsible Jurisdictions

There are 4,289 catch basins that collect runoff from County-unincorporated communities located within the Los Angeles River Watershed. There are 33 County-unincorporated communities and 44 cities within the Los Angeles River Watershed (attached Implementation Areas Map). Unincorporated communities make up eight percent of the Los Angeles River Watershed. Pursuant to the TMDL, the County is responsible for the point-source trash contributed by County-unincorporated communities within the Los Angeles River Watershed.

Monitoring

In February 2004, the County submitted the Trash Baseline Monitoring Report for the Los Angeles River and Ballona Creek Watersheds as required by the initial TMDL established in September, 2001. Five land-use categories were monitored and a baseline waste load allocation value was calculated based on the monitoring results. Also, Automatic Retractable Screen partial-capture devices were monitored for this report. In April 2007, after extensive research, testing, and development, the County submitted the Full-Capture Device Technical Report¹ for the connector pipe screen (CPS) device to the Regional Board. The CPS device² was subsequently

¹ Technical Report Connector Pipe Screen Design (Full-Capture TMDL Compliance, Screen and Bypassing Sizing Requirements). Dated April 2007

² The list of Executive Officer approved full-capture systems is available at the following site:
http://www.waterboards.ca.gov/losangeles/water_issues/programs/tmdl/full_capture_certification.shtml

certified by the Regional Board as a full-capture device on August 1, 2007. After the Regional Board certified the CPS as a full-capture device, the County changed its implementation strategy from partial capture with trash monitoring to installation of full-capture devices.

A full-capture device requires no monitoring since it has been certified to trap all particles retained by a 5-millimeter mesh screen and has a design treatment capacity of no less than the peak-flow rate resulting from a one-year, one-hour storm. The County is installing full-capture systems in all the Los Angeles River Watershed County-unincorporated areas. Therefore, no additional baseline and compliance monitoring is necessary.

Implementation Plan

The initial implementation plan to address the TMDL was established in May 2002 with a plan to retrofit all 4,289 catch basins located in the County-unincorporated communities which are tributary to the Los Angeles River. As part of that initial implementation plan, partial-capture devices were installed in approximately 2,137 catch basins in the County-unincorporated areas of the Los Angeles River Watershed. Due to concerns for flooding and public safety, the devices used in this initial effort had openings greater than the 5-millimeter requirement, and thus they were not considered full-capture devices. Therefore, the County developed and then certified a CPS device for full capture.

The County developed a revised implementation plan to retrofit all catch basins with these certified full-capture CPS devices in the unincorporated Los Angeles River Watershed. In accordance with the TMDL, the County submitted a Los Angeles River Watershed Trash TMDL Implementation Report to the Regional Board on March 23, 2009. The implementation report describes the County's completed and future projects to retrofit all catch basins in the County-unincorporated areas within the Los Angeles River Watershed with full-capture CPS devices.

Completed Full-Capture Retrofits

The first project under the revised implementation plan included installation of 586 full-capture CPS devices in the 2,137 catch basins previously retrofitted with partial-capture devices. The project was completed on January 9, 2009, and yielded a 38.4 percent trash reduction in the unincorporated Los Angeles River Watershed (Table 1). The remaining 1,551 catch basins with only partial-capture devices yield an additional 18.1 percent trash reduction (Table 2).

These efforts achieved a total 56.50 percent trash reduction (Table 3). The TMDL Implementation Year 2 requires a 45 percent reduction of the trash baseline by September 30, 2009.

Table 1 – Full-Capture Device (CPS) Trash Reduction Calculation

Implementation Area*	Trash Generation Rate** (%)	Total Catch Basins	Number of Catch Basins Retrofitted with Full-Capture Devices as of September 30, 2009	Full-Capture Trash Reduction*** (%)
A	31.9	40	26	20.74
B	2.7	24	21	2.36
C	1.7	25	23	1.56
D	1.4	0	0	1.40
E	4.8	327	11	0.16
F	10.7	753	250	3.55
G	5.2	519	39	0.39
H	2.3	248	38	0.35
I	4.8	12	5	2.00
J	1.1	109	4	0.04
K	13.4	975	68	0.93
L	7.7	608	3	0.04
M	1.6	139	21	0.24
N	4.9	383	24	0.31
O	0.2	0	0	0.20
P	1.2	76	7	0.11
Q	4.5	51	46	4.06
Totals:	100	4289	586	38.40

* The Implementation Areas are comprised of unincorporated communities within the Los Angeles River Watershed that are close in proximity

** The trash generation rates for each Implementation Area were based on the waste load allocation. The allocation was determined by previous monitoring results of the various land use categories.

*** Full-Capture Trash Reduction is calculated as follows:
 $(\text{No. of Catch Basins Retrofitted} / \text{Total Catch Basins in each Implementation Area}) \times \text{Trash Generation Rate}$

Table 2 – Partial-Capture Device Trash Reduction Calculation

Number of Catch Basins with only Partial Capture Devices as of September 30, 2009	Total Number of Catch Basins in County-unincorporated areas of the Los Angeles River Watershed	Partial Capture Trash Reduction* (%)
1,551	4,289	18.1

* Partial Capture Trash Reduction is calculated as follows:
 $\text{Reduction \%} = (\text{No. of Partial Capture Retrofits}) / (\text{Total No. Basins}) \times \text{Factor}$
 Factor = 0.5 for Partial-Capture Devices (Studies have determined efficiencies greater than 80 % for the type of partial-capture devices used).

Table 3 – Implementation Year 2 Total Trash Reduction Calculation

Trash Capture Device	Number of Catch Basins Retrofitted as of September 30, 2009	Total Trash Reduction (%)
Full-Capture (CPS)	586	38.4*
Partial-Capture (various types)	1,551	18.1*
TOTAL	2,137	56.5

* See Tables 1 and 2 above for the respective Trash Reduction Percentages.

Future Full-Capture Retrofits

Future projects will retrofit the remaining 3,703 catch basins with full-capture CPS devices (Table 4) so that all 4,289 catch basins in the unincorporated Los Angeles River Watershed are retrofitted with full-capture devices. Yearly TMDL requirements will be addressed by future full-capture projects. Once all 4,289 catch basins are retrofitted with full-capture devices, a 100 percent reduction of the trash baseline will be achieved. The TMDL requires a final 100 percent reduction of the trash baseline at a later date, September 30, 2016 (Implementation Year 9).

Table 4 – Remaining Catch Basins to be Retrofitted with CPS Devices

Total No. of Catch Basins	4,289
Catch Basins with Full-Capture CPS Devices as of September 30, 2009	586
Remaining Catch Basins to be Retrofitted with CPS Devices	3,703

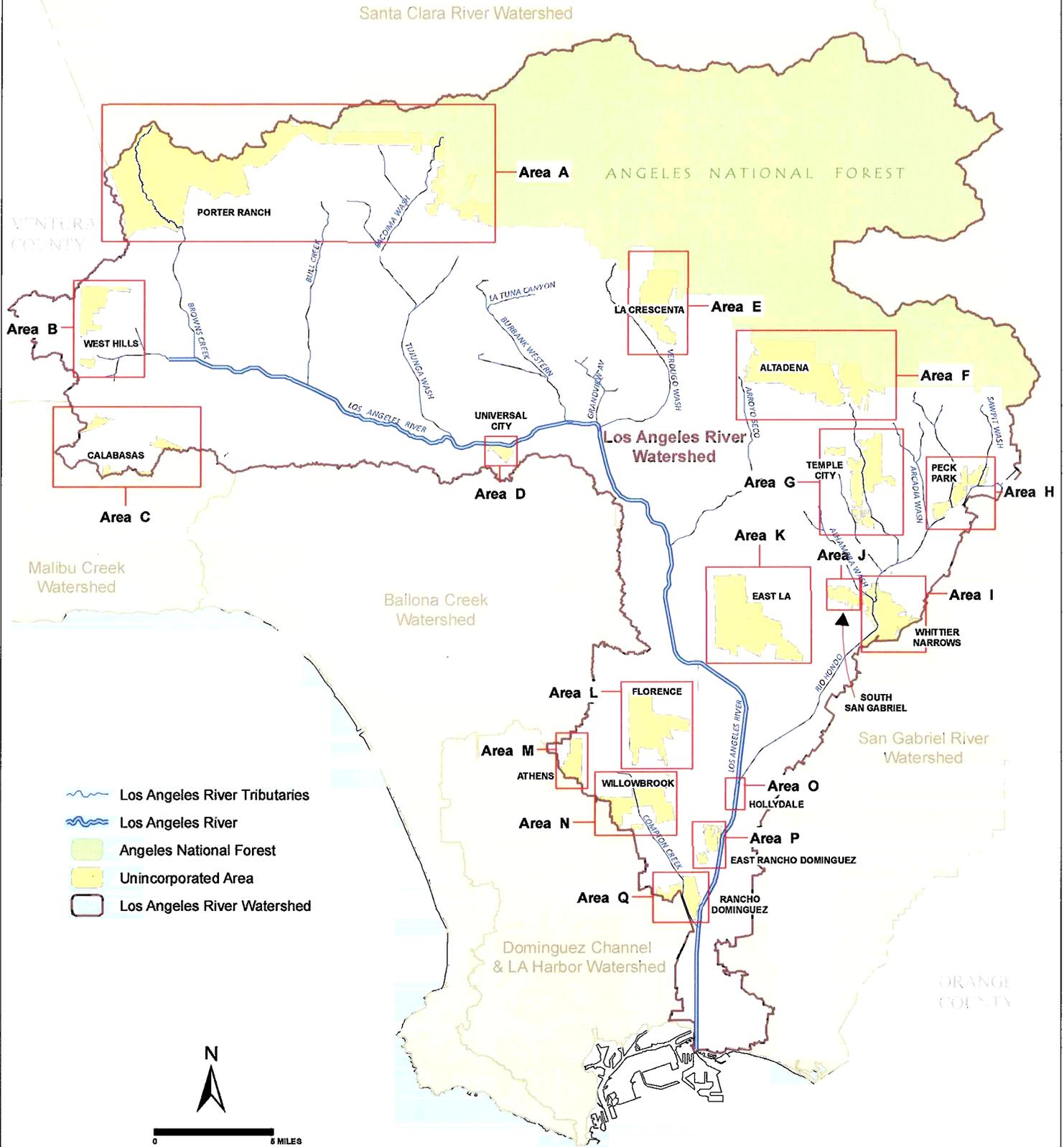
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Trash TMDL Implementation Areas In The Los Angeles River Watershed



- Los Angeles River Tributaries
- Los Angeles River
- Angeles National Forest
- Unincorporated Area
- Los Angeles River Watershed



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Data contained in this map is produced in whole or part from the Los Angeles County Department of Public Works' digital database.

City of Los Angeles' Trash Compliance Monitoring Reports for Los Angeles River Watershed and Ballona Creek Watershed

The City of Los Angeles will submit an independent assessment of its Trash TMDL efforts and compliance to the Los Angeles Regional Water Quality Control Board on or before September 30, 2009. The City of Los Angeles has done this for both the Ballona Creek and Los Angeles River Watersheds since 2006.