CITY OF ALBUQUERQUE

November 20, 2008

Ms. Denise Hamilton
U.S. EPA, Region 6
NPDES Permits and Technical Section
6WQ-PP
1445 Ross Avenue
Dallas, Texas 75202-2733

6W

NOV 2 8 2008

RECEIVED

RE: Albuquerque Municipal Separate Storm Sewer System (MS4) Permit No. NMS000101 TMDL Progress Report

As per Table III.B, Activity 12, of the above mentioned MS4 Permit, the following is a summary of the progress made by all of the co-permittees to comply with the Fecal Coliform TMDL of the permit.

The DNA Bacteria Source Tracking (BST) Study, made available to the public in 2006, indicates the major sources of fecal coliform contamination as coming from birds (34%), dogs (24%), and human/sewage (16%). The City of Albuquerque (COA) has done an intense dry weather screening of the storm water outfalls noted in the BST Study to analyze the presence of human/sewage flows. These dry weather screenings have proven to be negative and it appears that the source of the indicated human/sewage contamination is storm water that has been contaminated by contact with dumpster contents or "dumpster juice" and not cross-connections of sanitary sewer lines. An additional source "discovered" this year may be attributed to the homeless population. Contamination due to "dumpster juice" continues to be mitigated through implementation of the City Ordinance cited in the annual report submitted in 2005 while sources attributed to the homeless population will be decreased as the homeless are relocated to other facilities in joint efforts with the Albuquerque Police Department and Community Health Services.

Because the fecal coliform contamination appears to be a watershed-wide problem, the MS4 co-permittees continue to work with its other storm education partners, such as the County of Bernalillo, Southern Sandoval County Arroyo Flood Control Authority, and the Ciudad Soil and Water Conservation District to implement a watershed-wide public information program, targeted at the control of dog feces and other pollutant sources in the Middle Rio Grande Watershed. Because a new water treatment plant installed along the Rio Grande will go on line this year to supplement the area's drinking water supply with surface water, increasing public awareness of problems associated with improper pet waste disposal is particularly important.

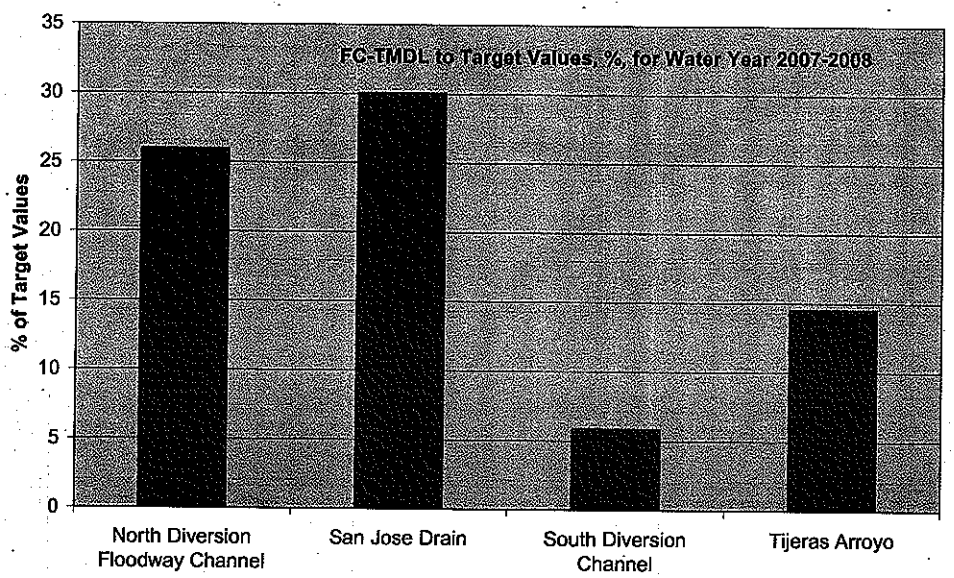
This year, as in previous years, a $67,000 contract has been awarded to a local public relations firm and a public information program has been implemented to reduce fecal coliform contamination. This program has emphasized the use of TV and radio spots to target dog feces and trash as unwanted storm water pollutants. The MS4 co-permittees and the storm water education team also continue to reduce fecal coliform contamination through the "Scoop the Poop" educational program. A one-page informational "rack card" was recently prepared by the educational partners and distributed along with other brochures describing good pet waste disposal practices at community events such as a sustainability fair, the state fair, and "Dia del Rio" or "River clean-up day". These brochures were also distributed in local neighborhoods in response to public requests and complaints regarding pet waste issues. The Storm Drainage Section with COA also continues to work with the Open Space Division to add plastic bag dispensers at City Parks and Open Space areas at public request, particularly in areas where dog walking is prevalent.

The attached TMDL loading results show that the co-permittees of the Albuquerque MS4 Storm Water Permit are currently well within the target goals of the fecal coliform TMDL stated in the permit. Loadings in conveyances to the south increased significantly compared to last year's values most likely due to the higher runoff obtained during this year's monsoon season. Although the southeast and south central portions of the City typically receive slightly lower rainfall than other locations, several high intensity, short duration storm events passed through these areas in July, raising TMDL loadings by one to three orders of magnitude over last year's values.

PO Box 1293
Albuquerque
NM 87103
www.cabq.gov

Fecal Coliform Total Maximum Daily Loading (TMDL)

	30-day Geometric Mean, coliform forming units (cfu)/day					
Conveyance	Target	2003 - 2004	2004 - 2005	2005 - 2006	2006 - 2007	2007 - 2008
North Diversion Floodway Channel	6.438×10^{11}	1.05×10^{11}	1.24×10^{10}	3.21×10^{11}	3.05×10^{10}	1.67×10^{11}
San Jose Drain	1.068×10^{10}	5.12×10^{9}	1.54×10^{9}	2.10×10^{9}	2.71×10^{8}	3.21×10^{9}
South Diversion Channel	1.444×10^{11}	3.69×10^{7}	3.9×10^{7}	4.85×10^{8}	1.67×10^{7}	8.49×10^{9}
Tijeras Arroyo	1.199×10^{11}	2.43×10^{5}	3.4×10^{6}	4.74×10^{9}	9.23×10^{6}	1.77×10^{10}



Annual Calculation of TMDL Loading
2006-2007 - GEOMETRIC MEAN in cfu/day

Month	San Jose Drain	Tijeras Arroyo	South Diversion Channel	North Diversion Floodway Channel
Jan 2008	2.0330E+08	8.620E+05	8.097E+05	2.230E+10
Feb 2008	2.403E+08	1.179E+06	1.548E+06	2.697E+10
Mar 2008	1.835E+08	2.447E+05	2.447E+05	1.957E+10
Apr 2008	4.238E+08	3.444E+05	2.447E+05	3.049E+10
May 2008	3.748E+08	1.095E+06	3.432E+05	2.913E+10
Jun 2008	2.560E+08	4.127E+05	7.551E+05	2.554E+10
Jul 2008	3.211E+09	1.774E+10	8.493E+09	1.673E+11
Aug 2008	2.669E+09	4.053E+07	4.558E+07	1.417E+11
Sept 2008	1.835E+08	3.468E+05	3.879E+05	1.957E+10
Oct 2007	2.270E+08	4.333E+05	2.447E+05	2.365E+10
Nov 2007	1.835E+08	6.970E+05	2.447E+05	1.957E+10
Dec 2007	2.586E+08	9.704E+05	1.966E+06	3.894E+10

CERTIFICATE LETTER

We the undersigned, certify under penalty of law that this document and all attachments were prepared under our direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on our inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of our knowledge and belief, true, accurate, and complete. We are aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Roland Penttila

Roland Penttila, P.E.
Manager, Storm Drainage Section
Department of Municipal Development
City of Albuquerque, New Mexico

John Kelly

John Kelly, P.E.
Executive Engineer
Albuquerque Metropolitan Arroyo
Flood Control Authority

for **Larry Velasquez, P.E.**
District Engineer
NM Department of Transportation

David W. Harris
Executive Vice President
for Administration
University of New Mexico

Attachments

PDF-CC:
Roland Penttila, COA
John Kelly, AMAFCA
Jerry Lovato, AMAFCA
KatherineTrujillo, NMDOT
Vern Hershberger, UNM
Richard Powell, NMED
Scott Bulgrin, Pueblo of Sandia
Jim Piatt, Pueblo of Isleta

CITY OF ALBUQUERQUE

November 17, 2006

Ms. Sonia Hall
U.S. EPA, Region 6
Water Enforcement Branch (6EN-WC)
1445 Ross Avenue
Dallas, Texas 75202-2733

RE: Albuquerque Municipal Separate Storm Sewer System Permit No. NMS000101 TMDL Progress Report

As per Table III.B, Activity 12, of the above mentioned MS4 Permit, the following is a summary of the progress made by all of the co-permittees to comply with the Fecal Coliform TMDL of the permit.

The long awaited DNA Bacteria Source Tracking (BST) Study has now been made available to the public, with the major sources of fecal coliform contamination being identified as coming from birds, dogs and human/sewage. The COA has done an intense dry weather screening of the stormwater outfalls noted in the BST Study to analyze the presence of human/sewage flows. These dry weather screenings have proven to be negative and it appears that the source of the indicated human/sewage contamination is "dumpster juice" and not cross-connections of sanitary sewer lines.

Because the fecal coliform contamination appears to be a watershed-wide problem, the MS4 co-permittees have formed a partnership with the County of Bernalillo to implement a watershed-wide public information program, targeted at the control of dog feces and other pollutant sources in the Middle Rio Grande Watershed. A $49,000 contract has been awarded to a local public relations firm and a public information program has been implemented to reduce fecal coliform contamination. This program has emphasized the use of TV and radio spots and billboards to target dog feces and trash as unwanted stormwater pollutants.

The MS4 co-permittees have also formed a partnership with the Ciudad Soil & Water Conservation District and the New Mexico Environment Department to promote the development and implementation of a Middle Rio Grande Watershed effort to minimize the fecal coliform contamination of the Rio Grande. This partnership meets monthly to develop and implement a plan to meet the above mentioned objective. One of the proposed watershed workplan emphasis initiatives will be the minimization of "dumpster juice" into storm drains

The attached TMDL loading calculations, provided by the USGS, show that the co-permittees of the Albuquerque MS4 Storm Water Permit are currently well within the target goals of the fecal coliform TMDL stated in the permit.

Dan Hogan

Dan Hogan, P.E., P.S.
Manager, Storm Drainage Division
City of Albuquerque

P.O.Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov