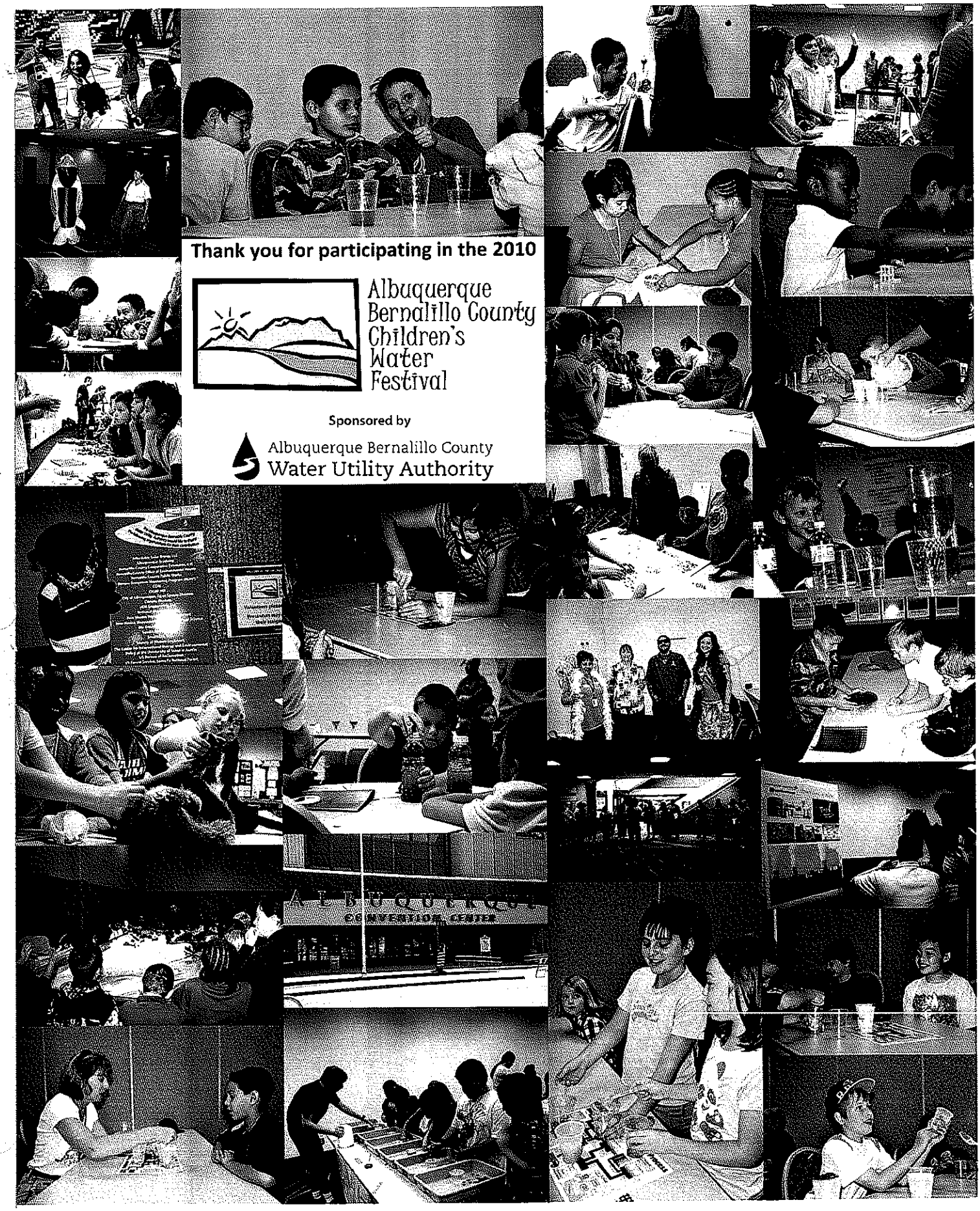

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Albuquerque
Bernalillo County
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10

Stormwater Quality Improvements

WATER QUALITY FEATURES IN 2010

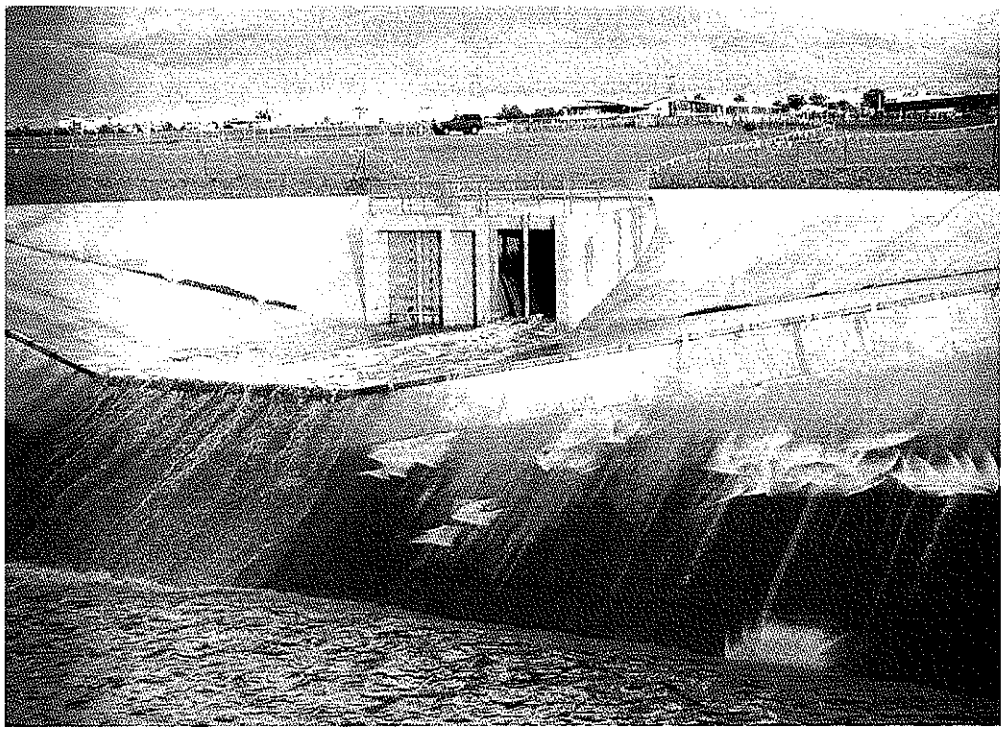


Figure 1. La Cueva Stormwater Quality Facility during a storm
(Project by AMAFCA)

Figure 2. La Cueva Stormwater Quality Facility captured debris.
(Project by AMAFCA)

WATER QUALITY FEATURES IN 2010

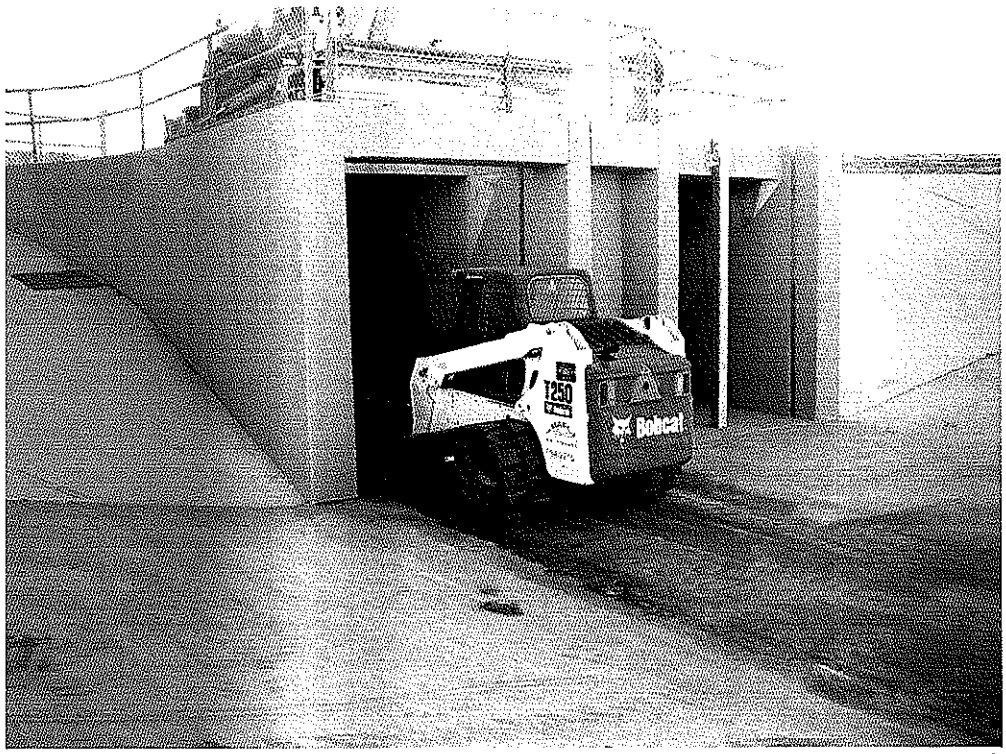


Figure 3. La Cueva Stormwater Quality Facility during debris removal.
(Project by AMAFCA)

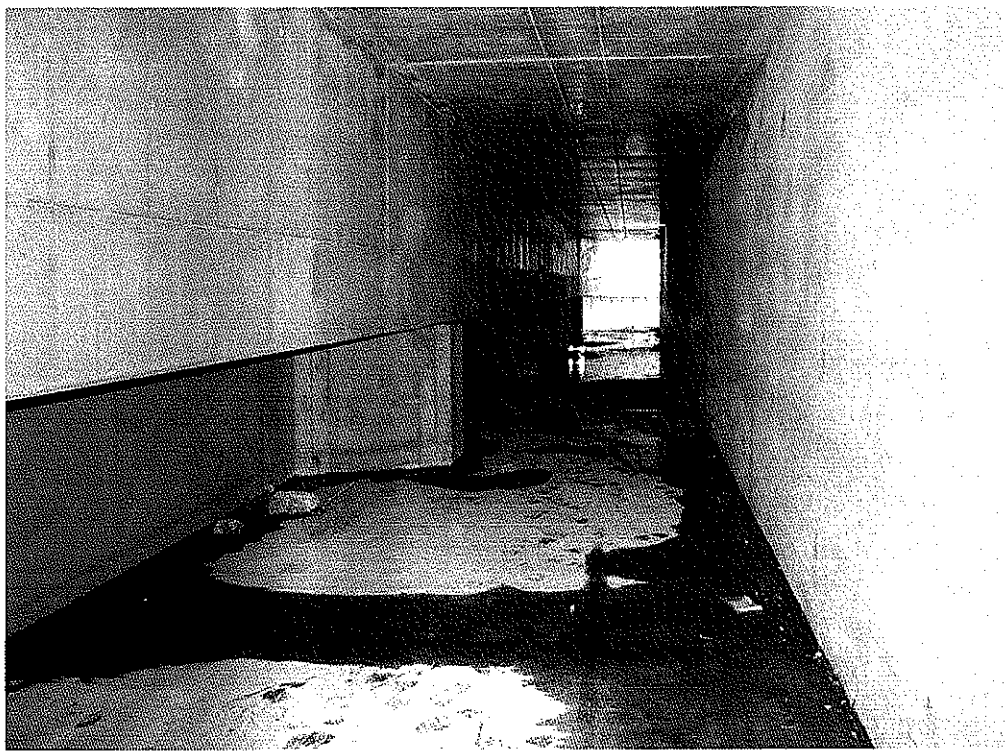


Figure 4. La Cueva Stormwater Quality Facility interior detail.
(Project by AMAFCA)

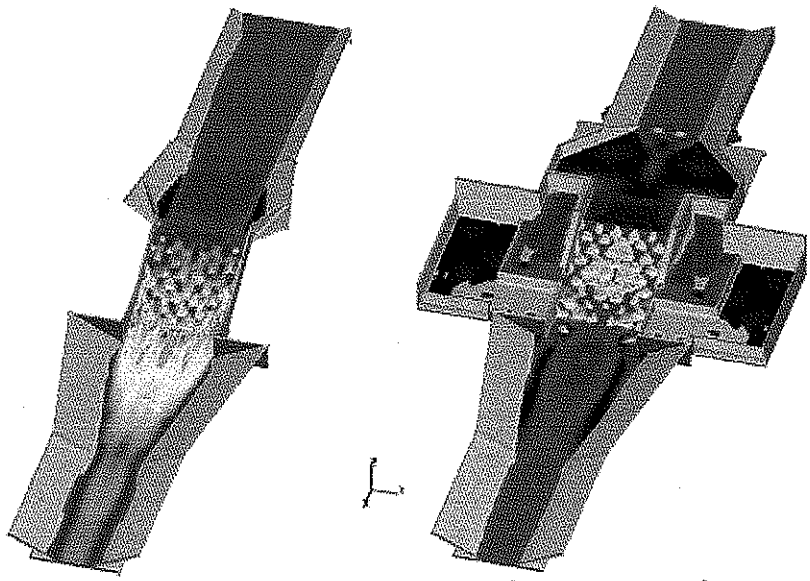
Figure 5. La Cueva Stormwater Quality Facility debris separation.
(Project by AMAFCA)

Figure 6. La Cueva Stormwater Quality Facility separated debris.
(Project by AMAFCA)

WATER QUALITY FEATURES IN 2010

Model Modifications:

- Baffle chutes for both the existing and the proposed structures
- Upstream channel changes for the existing structure
- Four discharging holes for the proposed structure



Existing structure, Q=3800 cfs **Proposed structure, Q=1200 cfs**

Velocity Comparisons (unit: ft/s)

Locations*	Discharge = 1,200 ft^3/s		Discharge = 3,800 ft^3/s	
	Existing structure	Proposed structure	Existing structure	Proposed structure
A	7.6	8.1	13.5	13.7
B	5.6	4.8	13.0	18.3
C	8.3	13.2	21.1	27.2
D	7.5	5.0	11.5	10.6
E	8.4	8.3	13.4	12.9

*same locations used in the physical model

Figure 7. I-25 Baffle Chute Stormwater Quality Facility numerical model. (Project by AMAFCA)

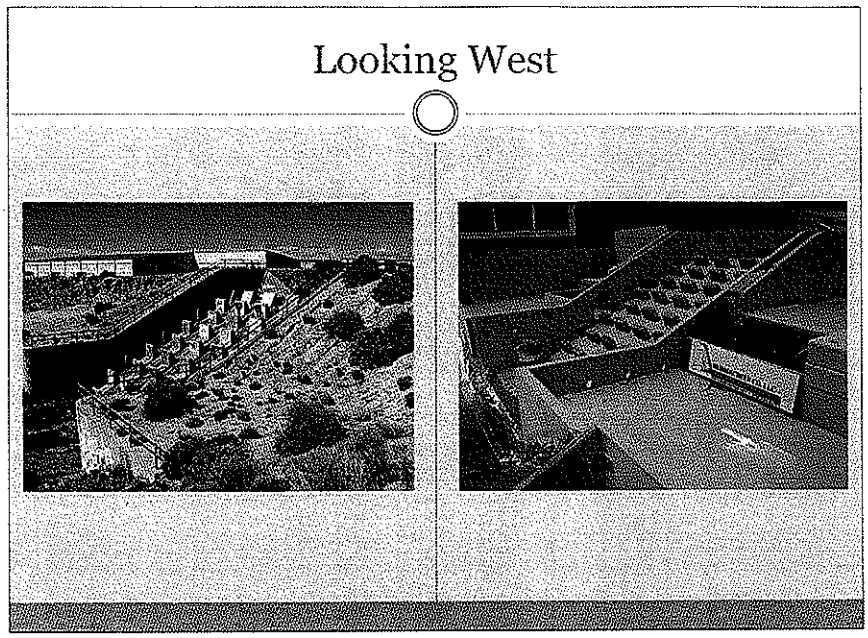


Figure 8. I-25 Baffle Chute Stormwater Quality Facility – Preconstruction site and UNM physical model. (Project by AMAFCA)

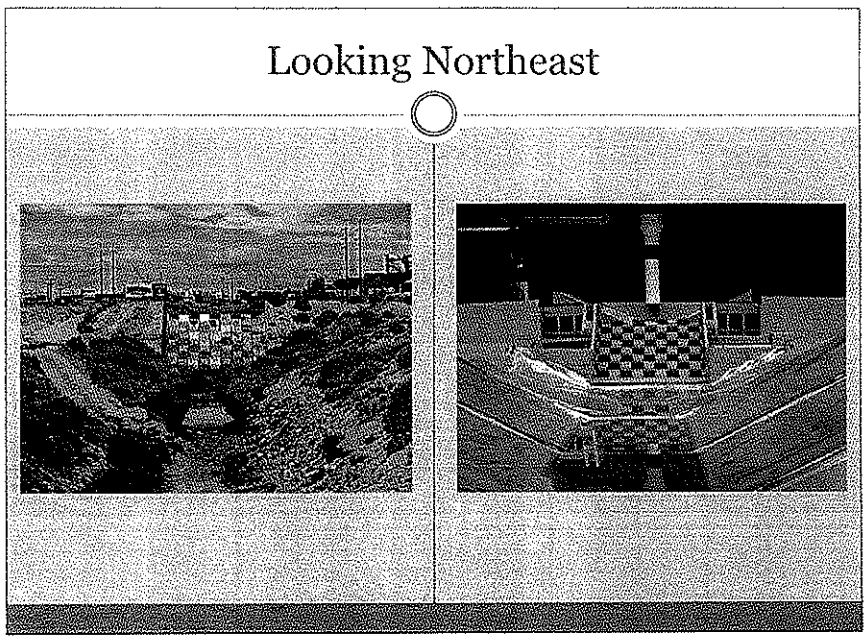


Figure 9. I-25 Baffle Chute Stormwater Quality Facility – Preconstruction site and UNM physical model. (Project by AMAFCA)

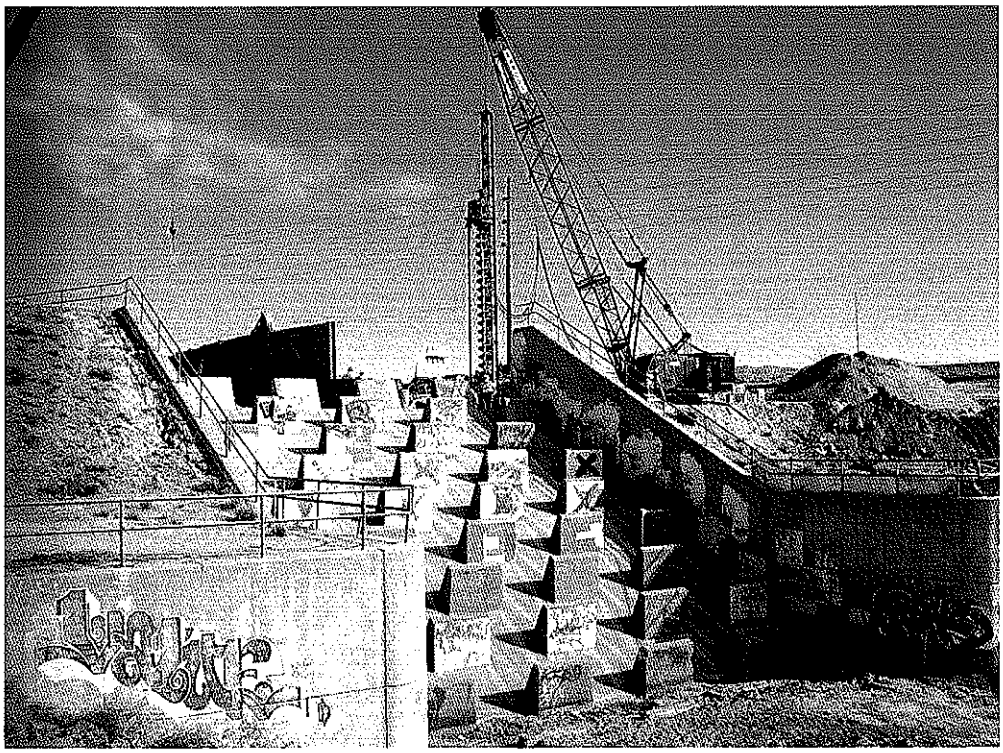


Figure 10. I-25 Baffle Chute Stormwater Quality Facility in construction. (Project by AMAFCA)

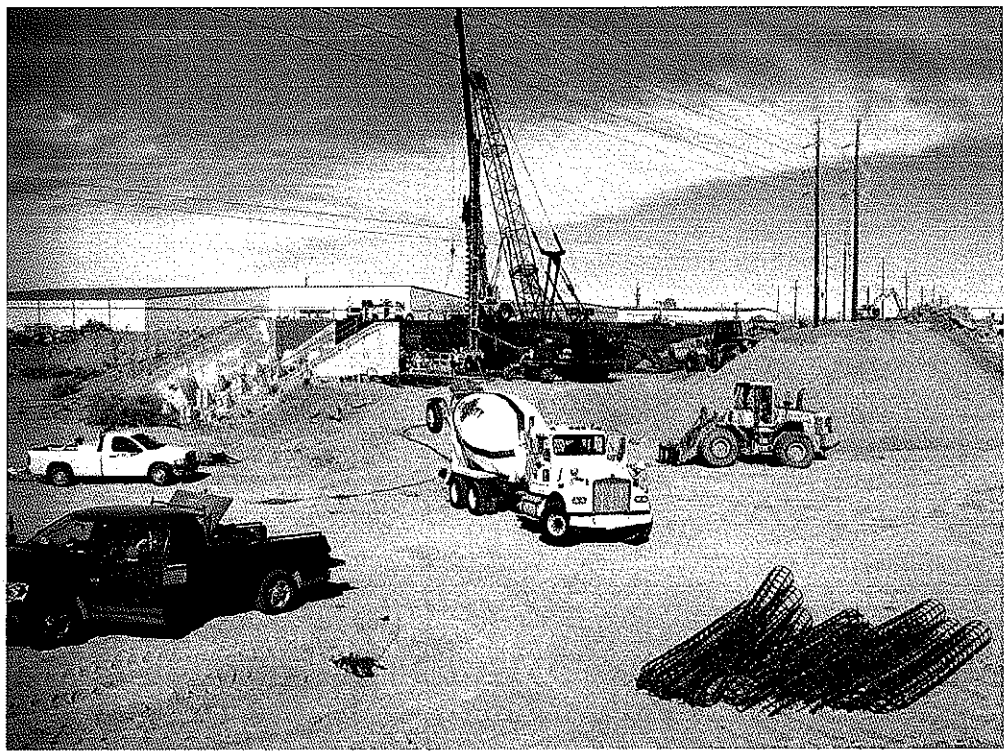


Figure 11. I-25 Baffle Chute Stormwater Quality Facility in construction. (Project by AMAFCA)

Figure 12. I-25 Baffle Chute Stormwater Quality Facility in construction
(Project by AMAFCA)

Figure 13. Vineyard Stormwater Quality Facility post storm.
(Project by AMAFCA)

Figure 14. North Pino Stormwater Quality Facility post storm.
(Project by AMAFCA)

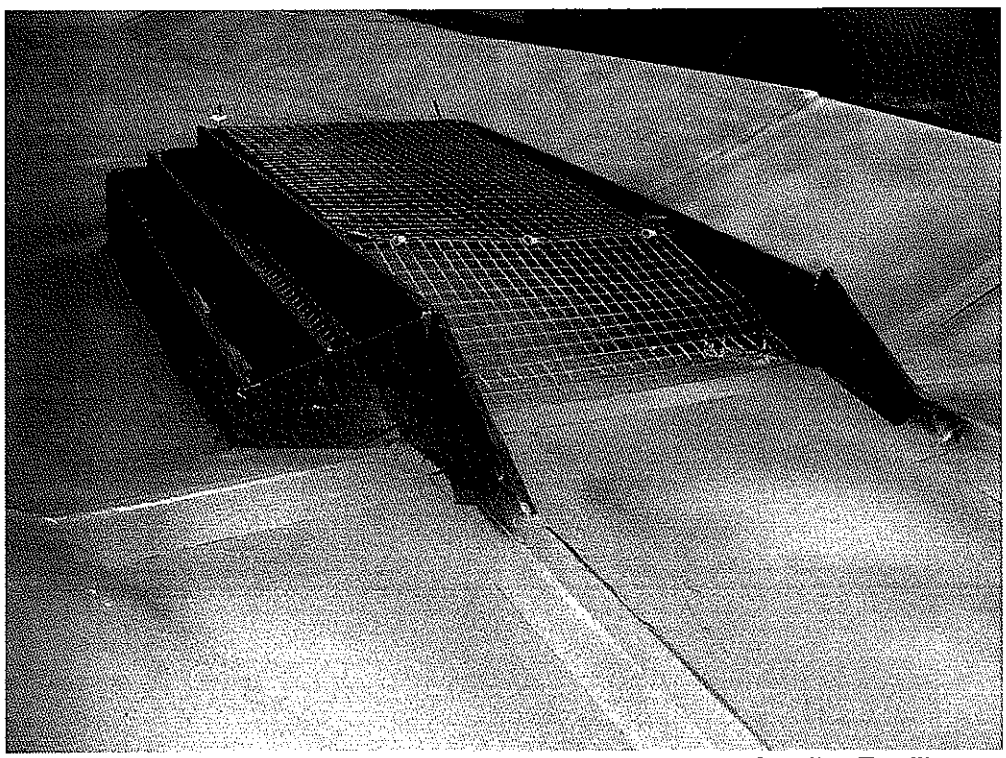


Figure 15. Hahn Arroyo Mid-Channel Stormwater Quality Facility – Physical model at UNM.
(Project by AMAFCA and COA)

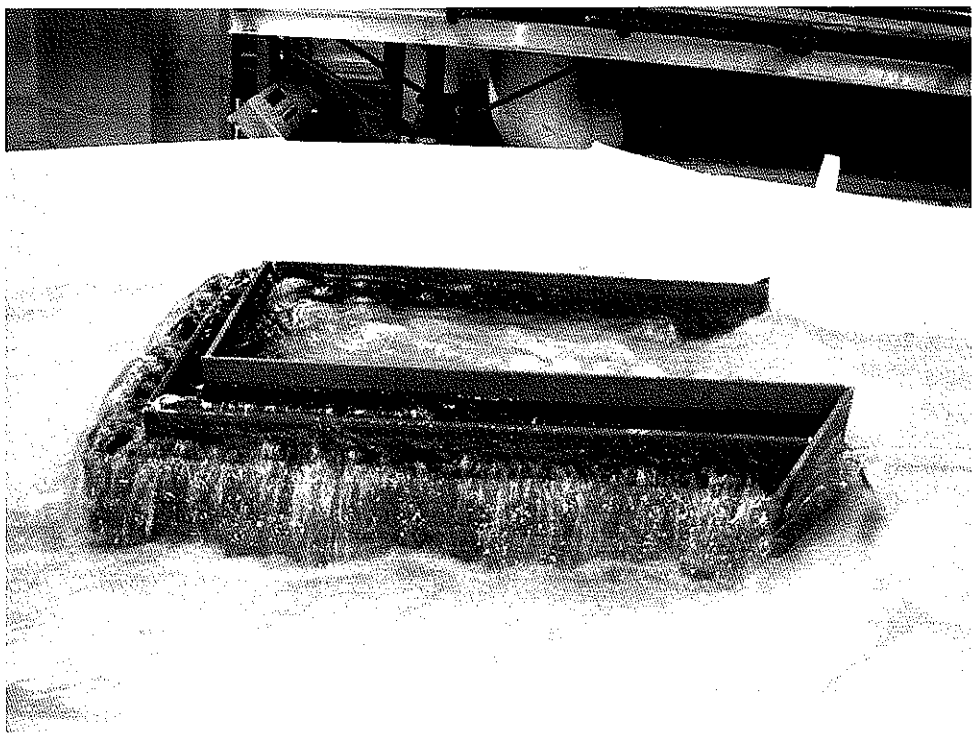


Figure 16. Hahn Arroyo Mid-Channel Stormwater Quality Facility – Physical model at UNM.
(Project by AMAFCA and COA)

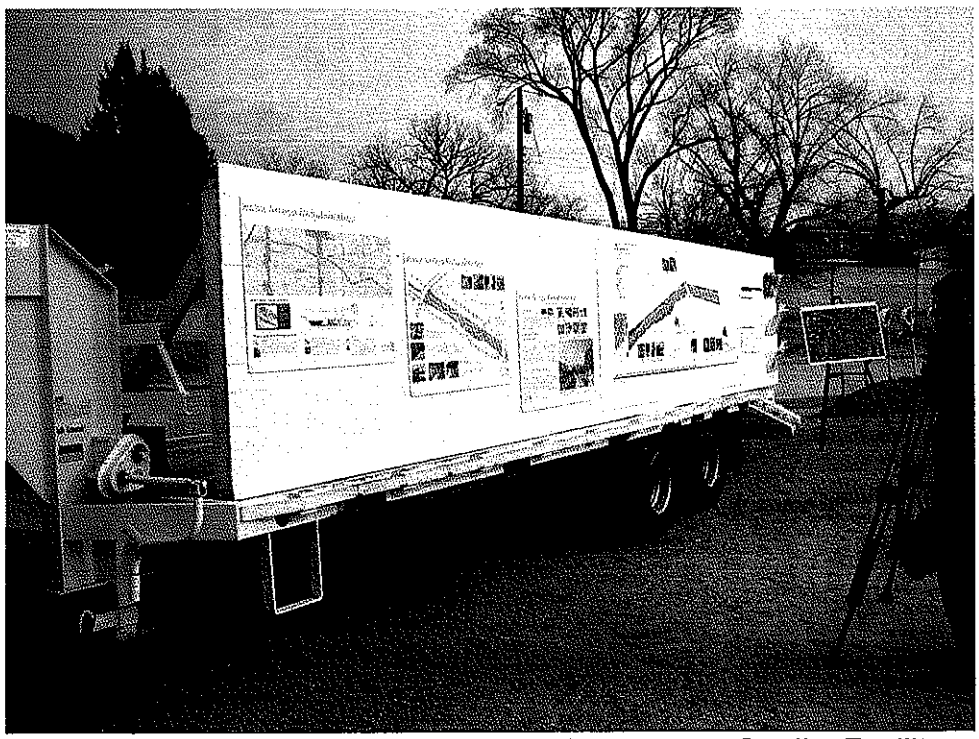


Figure 17. Hahn Arroyo Mid-Channel Stormwater Quality Facility – Project information board at the groundbreaking ceremony.
(Project by AMAFCA and COA)

WATER QUALITY FEATURES IN 2010

Figure 18. Hahn Arroyo Mid-Channel Stormwater Quality Facility – Students in attendance with Dir. Eichenberg of AMAFCA and Mayor Richard J. Berry of the City of Albuquerque at the groundbreaking ceremony. (Project by AMAFCA and COA)

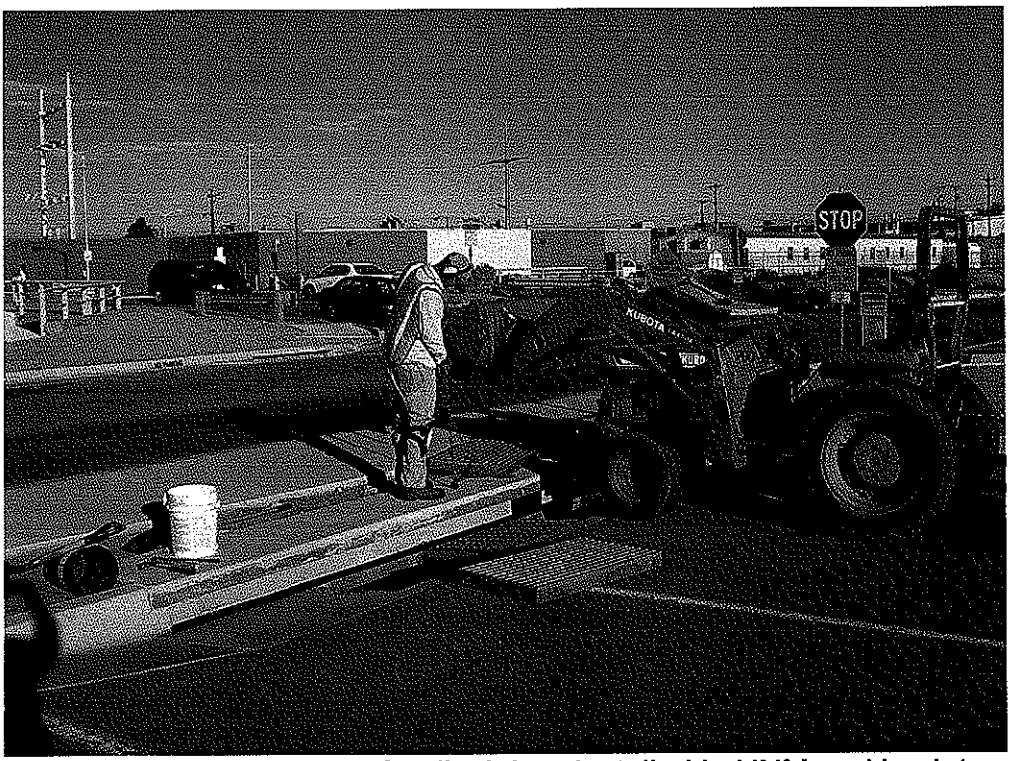


Figure 19. Stormwater Quality Inlet - installed in UNM parking lot