APPENDIX 5—Streamflow measurements

Explanation for streamflow measurements

CODE	DISCHARGE METHOD
B	Bucket and stopwatch
M	Flow or totaling meter
Discharge Unit = Cubic feet per second (CFS)	
All UTMs are in NAD83, Zone 13	
Data collected by New Mexico Bureau of Geology and Mineral Resources	
Streamflow measurements were made in locations where the stream was relatively uniform, u-shaped, and had only one stream channel (no split channels). Streamflow in various locations was measured using a propeller-style flow meter (Global Water Flow Probe). Following USGS guidelines, the average velocity was calculated by measuring the cross sectional area of the stream. The area was then divided into subsections in which each section encompassed no more than 5% of the total discharge.	

Point ID	UTM Easting	UTM Northing	Drainage Name	Discharge	Discharge Method	Discharge Rate	Date Measured	Site Names
SM-4001	442,050	3,633,701	Wills Canyon	Flowing	M	0.89	7/24/07	WC100
SM-4002	441,191	3,632,982	Wills Canyon	Flowing	M	1.87	7/24/07	WC101
SM-4003	439,882	3,632,453	Wills Canyon	Flowing	M	1.95	7/24/07	WC102
SM-4004	439,433	3,632,486	Wills Canyon	Flowing	M	1.66	7/24/07	WC103
SM-4005	437,648	3,631,995	Wills Canyon	Flowing	M	1.67	7/24/07	WC104
SM-4006	431,440	3,629,437	Wills Canyon	Flowing	M	0.61	7/25/07	WC105
SM-4007	431,455	3,629,462	Wills Canyon	Flowing	M	0.37	7/25/07	WC106
SM-4008	431,670	3,629,881	Wills Canyon	Flowing	M	1.1	7/25/07	WC107
SM-4009	431,695	3,629,944	Wills Canyon	Flowing	M	1.14	7/25/07	WC108
SM-4010	431,781	3,630,034	Wills Canyon	Flowing	M	1.2	7/25/07	WC109
SM-4011	432,101	3,630,444	Wills Canyon	Flowing	M	1.16	7/25/07	WC110
SM-4012	432,925	3,631,286	Wills Canyon	Flowing	M	1.25	7/25/07	WC111
SM-4013	433,644	3,631,556	Wills Canyon	Flowing	M	1.14	7/25/07	WC112
SM-4014	433,599	3,631,522	Wills Canyon	Flowing	M	1.17	7/25/07	WC113
SM-4015	434,245	3,631,659	Wills Canyon	Flowing	M	1.66	7/25/07	WC114
SM-4016	434,809	3,631,952	Wills Canyon	Flowing	M	1.32	7/25/07	WC115
SM-4017	435,197	3,632,060	Wills Canyon	Flowing	M	1.42	7/25/07	WC116
SM-4018	435,908	3,631,971	Wills Canyon	Flowing	M	1.46	7/25/07	WC117
SM-4019	436,992	3,631,698	Wills Canyon	Flowing	M	1.3	7/25/07	WC118
SM-4020	437,070	3,631,721	Wills Canyon	Flowing	M	1.18	7/25/07	WC119
SM-4021	437,237	3,631,760	Wills Canyon	Flowing	M	1.29	7/25/07	WC120
SM-4022	437,488	3,631,891	Wills Canyon	Flowing	M	1.14	7/25/07	WC121
SM-4023	451,601	3,629,787	Agua Chiquita	Flowing	M	7.03	7/26/07	AC001
SM-4024	450,347	3,630,075	Agua Chiquita	Flowing	M	8.38	7/26/07	AC002
SM-4025	448,955	3,629,590	Agua Chiquita	Flowing	M	3.89	7/26/07	AC003
SM-4026	447,255	3,628,569	Agua Chiquita	Flowing	M	8.28	7/26/07	AC004
SM-4027	444,288	3,628,658	Agua Chiquita	Flowing	M	5.06	7/26/07	AC005
SM-4028	441,901	3,627,483	Agua Chiquita	Flowing	M	3.18	7/26/07	AC006
SM-4029	441,598	3,625,771	Agua Chiquita	Flowing	M	2.7	7/26/07	AC007
SM-4030	440,948	3,623,503	Agua Chiquita	Flowing	M	3.02	7/26/07	AC008
SM-4031	438,871	3,621,108	Agua Chiquita	Flowing	M	4.27	7/26/07	AC009
SM-4032	437,442	3,619,305	Agua Chiquita	Flowing	M	3.73	7/26/07	AC010
SM-4033	445,964	3,628,458	Agua Chiquita tributary	Flowing	M	0.64	7/26/07	PDC001
SM-4034	445,001	3,627,529	Agua Chiquita tributary	Flowing	M	0.44	7/26/07	PDC002
SM-4035	449,477	3,635,139	Rio Penasco	Flowing	M	10.46	7/24/07	LP100
SM-4036	462,298	3,635,510	Agua Chiquita	Dry	M	0	11/15/07	AC END
SM-4037	434,716	3,620,635	Agua Chiquita	Dry	M	0	11/14/07	AC HW
SM-4038	434,603	3,649,570	Silver Springs	Dry	M	0	11/12/07	LA LUZ
SM-4039	436,407	3,650,025	Silver Springs	Dry	M	0	11/12/07	POND
SM-4040	428,383	3,620,342	Sacramento River	Dry	M	0	11/14/07	SAC START
SM-4041	441,732	3,607,985	Sacramento River	Dry	M	0	11/14/07	SAC-END
SM-4042	437,877	3,651,462	Silver Springs	Dry	M	0	11/12/07	TLI1
SM-4043	442,472	3,634,474	Wills Canyon	Dry	M	0	11/14/07	WILLS END
SM-4044	429,858	3,628,687	Wills Canyon	Dry	M	0	11/14/07	WILLS ST-1

Point ID	UTM Easting	UTM Northing	Drainage Name	Discharge	Discharge Method	Discharge Rate	Date Measured	Site Names
SM-4045	435,342	3,649,539	Silver Springs	Flowing	B	0	11/12/07	DW PIPE1
SM-4046	431,043	3,629,424	Wills Canyon	Flowing	B	0.11	11/12/07	WC201
SM-4047	431,671	3,629,875	Wills Canyon	Flowing	M	0.42	11/14/07	WC202
SM-4048	431,704	3,629,967	Wills Canyon	Flowing	M	0.6	11/14/07	WC203
SM-4049	437,445	3,619,298	Agua Chiquita	Flowing	M	1.12	11/14/07	AC103
SM-4050	437,627	3,609,589	Sacramento River	Flowing	M	2.17	11/14/07	SAC-01
SM-4051	451,606	3,629,776	Agua Chiquita	Flowing	M	4.12	11/14/07	AC-102
SM-4052	449,492	3,635,146	Rio Penasco	Flowing	M	9.67	11/13/07	PEN4
SM-4053	461,098	3,642,702	Rio Penasco	Flowing	M	15.66	11/13/07	PEN1
SM-4054	453,944	3,637,577	Rio Penasco	Flowing	M	13.49	11/13/07	PEN-3
SM-4055	483,356	3,638,125	Rio Penasco	Flowing	M	34.78	11/13/07	PEN-2
SM-4056	436,966	3,631,698	Wills Canyon	Flowing	M	1.13	6/8/07	WC-1
SM-4057	437,072	3,631,725	Wills Canyon	Flowing	M	1.17	6/8/07	WC-2
SM-4058	437,261	3,631,781	Wills Canyon	Flowing	M	1.45	6/8/07	WC-3
SM-4059	437,489	3,631,893	Wills Canyon	Flowing	M	1.2	6/8/07	WC-4
SM-4060	431,674	3,629,884	Wills Canyon	Flowing	M	0.81	6/7/07	WC-5
SM-4061	431,708	3,629,960	Wills Canyon	Flowing	M	1.19	6/7/07	WC-6
SM-4062	431,778	3,630,052	Wills Canyon	Flowing	M	1.13	6/7/07	WC-7
SM-4063	432,009	3,630,313	Wills Canyon	Flowing	M	1.01	6/7/07	WC-8
SM-4064	432,122	3,630,421	Wills Canyon	Flowing	M	0.97	6/7/07	WC-9
SM-4065	433,598	3,631,574	Wills Canyon	Flowing	M	1.41	6/7/07	WC-10
SM-4066	435,264	3,632,035	Wills Canyon	Flowing	M	0.93	6/7/07	WC-11
SM-4067	479,626	3,652,907	Rio Felix	Flowing	M	8.79	3/6/08	RF-001
SM-4068	478,480	3,652,708	Rio Felix	Dry	M	0	3/6/08	RF-Start
SM-4069	486,087	3,653,356	Rio Felix	Dry	M	0	3/6/08	RF-End
SM-4070	431,664	3,629,862	Wills Canyon	Flowing	M	0.19	4/21/08	WC301
SM-4071	431,702	3,629,967	Wills Canyon	Flowing	M	0.44	4/21/08	WC302
SM-4072	439,953	3,632,487	Wills Canyon	Dry	M	0	4/21/08	WC-End
SM-4073	451,604	3,629,776	Agua Chiquita	Flowing	M	2	4/21/08	AC-301
SM-4074	447,266	3,628,620	Agua Chiquita	Flowing	M	1.48	4/21/08	AC-302
SM-4075	441,603	3,628,660	Agua Chiquita	Dry	M	0	4/21/08	AC-Start
SM-4076	440,996	3,624,365	Agua Chiquita	Dry	M	0	4/21/08	AC-End1
SM-4077	437,427	3,619,297	Agua Chiquita	Flowing	M	0.13	4/21/08	AC-303
SM-4078	435,630	3,619,618	Agua Chiquita	Dry	M	0	4/21/08	AC-Start1
SM-4079	434,720	3,620,641	Agua Chiquita	Dry	M	0	4/21/08	AC-Start2
SM-4080	437,439	3,609,521	Sacramento River	Dry	M	0	4/21/08	Sac-End2
SM-4081	431,898	3,617,183	Sacramento River	Dry	M	0	4/21/08	Sac-Start2
SM-4082	430,528	3,618,693	Sacramento River	Dry	M	0	4/21/08	Sac-End3
SM-4083	426,928	3,624,262	Sacramento River	Dry	M	0	4/21/08	SpringHole