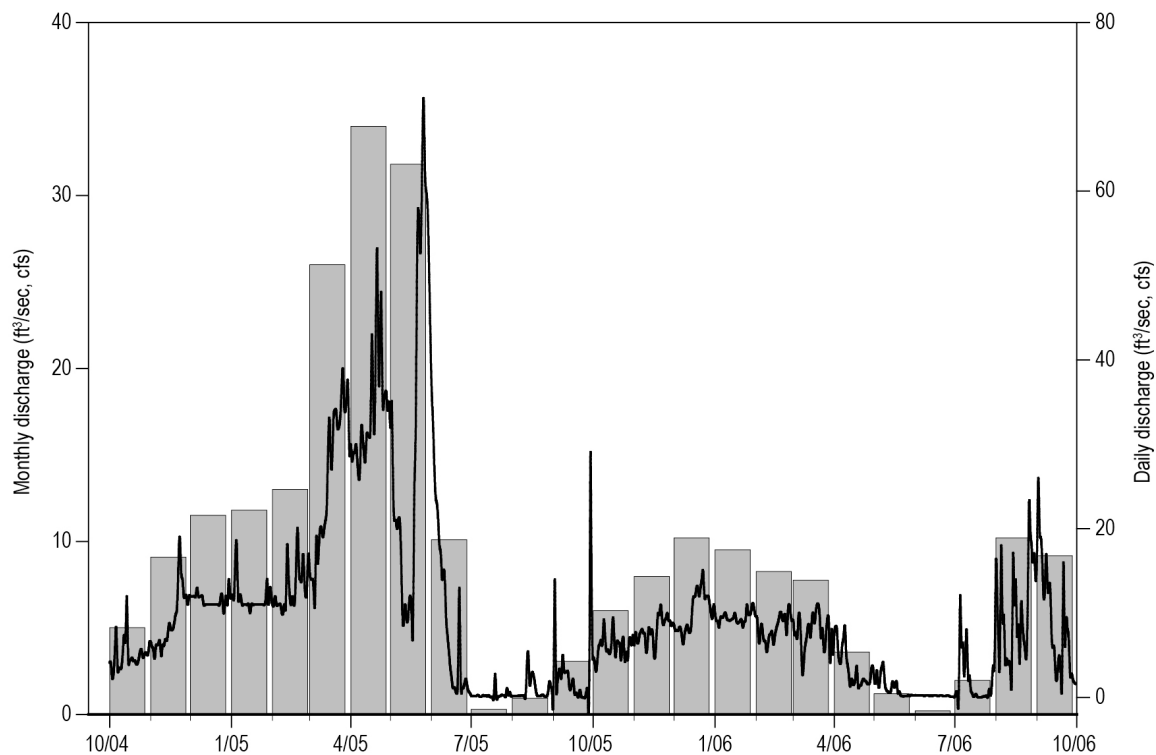


## APPENDIX 3

### Streamflow data Santa Fe River above Cochiti

Monthly and daily discharge data from USGS Station 08317200, Santa Fe River above Cochiti, show exceptionally high discharge for March, April and May 2005 related to snowmelt runoff. Periodic observations during spring 2005 by authors P. Johnson and S. Timmons confirmed that the Santa Fe River flowed at state road 599 during this period. A surface-water sample (EB-595, report Figure 4) was collected from the Santa Fe River between state road 599 and the wastewater treatment plant (WWTP) on May 12, 2005, for analysis of ion and trace chemistry.



**Figure 3.1** Monthly and daily discharge data.

Monthly	
Date (m/yy)	Discharge (ft <sup>3</sup> /sec)
Oct-04	5.0
Nov-04	9.1
Dec-04	11.5
Jan-05	11.8
Feb-05	13.0
Mar-05	26.0
Apr-05	34.0
May-05	31.8
Jun-05	10.1
Jul-05	0.3
Aug-05	0.9
Sep-05	3.1
Oct-05	6.0
Nov-05	8.0
Dec-05	10.2
Jan-06	9.5
Feb-06	8.3
Mar-06	7.8
Apr-06	3.6
May-06	1.2
Jun-06	0.2
Jul-06	2.0
Aug-06	10.2
Sep-06	9.2
Oct-06	4.5
Nov-06	5.9
Dec-06	9.1

Daily							
Date	Discharge (ft <sup>3</sup> /sec)	Date	Discharge (ft <sup>3</sup> /sec)	Date	Discharge (ft <sup>3</sup> /sec)	Date	Discharge (ft <sup>3</sup> /sec)
10/1/04	4.1	11/25/04	14	1/19/05	11	3/15/05	30
10/2/04	4	11/26/04	12	1/20/05	11	3/16/05	33
10/3/04	2.3	11/27/04	12	1/21/05	11	3/17/05	28
10/4/04	3	11/28/04	12	1/22/05	11	3/18/05	28
10/5/04	5.5	11/29/04	11	1/23/05	11	3/19/05	33
10/6/04	8.3	11/30/04	12	1/24/05	11	3/20/05	34
10/7/04	3.6	12/1/04	12	1/25/05	11	3/21/05	34
10/8/04	3.4	12/2/04	12	1/26/05	11	3/22/05	32
10/9/04	3.4	12/3/04	12	1/27/05	12	3/23/05	32
10/10/04	3.6	12/4/04	12	1/28/05	14	3/24/05	33
10/11/04	5.4	12/5/04	12	1/29/05	11	3/25/05	36
10/12/04	7.4	12/6/04	13	1/30/05	13	3/26/05	39
10/13/04	6.9	12/7/04	12	1/31/05	12	3/27/05	35
10/14/04	12	12/8/04	12	2/1/05	11	3/28/05	34
10/15/04	4.9	12/9/04	12	2/2/05	11	3/29/05	36
10/16/04	4.4	12/10/04	12	2/3/05	12	3/30/05	37
10/17/04	4.4	12/11/04	11	2/4/05	11	3/31/05	29
10/18/04	4.7	12/12/04	11	2/5/05	11	4/1/05	30
10/19/04	4.3	12/13/04	11	2/6/05	11	4/2/05	28
10/20/04	4.4	12/14/04	11	2/7/05	11	4/3/05	29
10/21/04	4	12/15/04	11	2/8/05	10	4/4/05	29
10/22/04	4	12/16/04	11	2/9/05	10	4/5/05	30
10/23/04	4.6	12/17/04	11	2/10/05	11	4/6/05	28
10/24/04	5.4	12/18/04	11	2/11/05	11	4/7/05	26
10/25/04	5.7	12/19/04	11	2/12/05	18	4/8/05	27
10/26/04	4.8	12/20/04	11	2/13/05	15	4/9/05	32
10/27/04	4.9	12/21/04	11	2/14/05	12	4/10/05	31
10/28/04	5.3	12/22/04	11	2/15/05	11	4/11/05	29
10/29/04	5.2	12/23/04	11	2/16/05	12	4/12/05	28
10/30/04	5.1	12/24/04	12	2/17/05	11	4/13/05	31
10/31/04	6.4	12/25/04	12	2/18/05	12	4/14/05	31
11/1/04	6.6	12/26/04	10	2/19/05	17	4/15/05	31
11/2/04	6	12/27/04	11	2/20/05	20	4/16/05	33
11/3/04	5.7	12/28/04	12	2/21/05	15	4/17/05	43
11/4/04	4.6	12/29/04	11	2/22/05	14	4/18/05	35
11/5/04	6.1	12/30/04	14	2/23/05	14	4/19/05	32
11/6/04	6.2	12/31/04	12	2/24/05	17	4/20/05	44
11/7/04	6.5	1/1/05	12	2/25/05	14	4/21/05	53
11/8/04	6.6	1/2/05	12	2/26/05	12	4/22/05	39
11/9/04	4.9	1/3/05	12	2/27/05	13	4/23/05	40
11/10/04	6.2	1/4/05	17	2/28/05	17	4/24/05	48
11/11/04	6.1	1/5/05	18	3/1/05	15	4/25/05	36
11/12/04	6.9	1/6/05	12	3/2/05	14	4/26/05	35
11/13/04	6.7	1/7/05	12	3/3/05	14	4/27/05	36
11/14/04	7.6	1/8/05	12	3/4/05	13	4/28/05	36
11/15/04	8.8	1/9/05	11	3/5/05	11	4/29/05	34
11/16/04	8.2	1/10/05	11	3/6/05	19	4/30/05	35
11/17/04	8	1/11/05	11	3/7/05	16	5/1/05	32
11/18/04	8.2	1/12/05	11	3/8/05	18	5/2/05	35
11/19/04	9	1/13/05	11	3/9/05	20	5/3/05	25
11/20/04	9.9	1/14/05	11	3/10/05	20	5/4/05	21
11/21/04	11	1/15/05	10	3/11/05	19	5/5/05	21
11/22/04	16	1/16/05	11	3/12/05	20	5/6/05	20
11/23/04	19	1/17/05	11	3/13/05	21	5/7/05	21
11/24/04	15	1/18/05	11	3/14/05	23	5/8/05	21

Daily									
Date	Discharge (ft <sup>3</sup> /sec)	Date	Discharge (ft <sup>3</sup> /sec)	Date	Discharge (ft <sup>3</sup> /sec)	Date	Discharge (ft <sup>3</sup> /sec)	Date	Discharge (ft <sup>3</sup> /sec)
5/9/05	17	7/3/05	0.2	8/27/05	0.14	10/21/05	6.3	12/15/05	11
5/10/05	10	7/4/05	0.17	8/28/05	0.7	10/22/05	4.4	12/16/05	12
5/11/05	8.8	7/5/05	0.2	8/29/05	1.9	10/23/05	6.5	12/17/05	12
5/12/05	11	7/6/05	0.3	8/30/05	1.3	10/24/05	6.8	12/18/05	13
5/13/05	9.5	7/7/05	0.15	8/31/05	0.46	10/25/05	4.2	12/19/05	13
5/14/05	9.1	7/8/05	0.12	9/1/05	0.21	10/26/05	5.4	12/20/05	12
5/15/05	11	7/9/05	0.14	9/2/05	14	10/27/05	4.4	12/21/05	13
5/16/05	12	7/10/05	0.28	9/3/05	2.3	10/28/05	6.5	12/22/05	14
5/17/05	9.7	7/11/05	0.14	9/4/05	1.6	10/29/05	7	12/23/05	15
5/18/05	7.8	7/12/05	0.25	9/5/05	3	10/30/05	6.2	12/24/05	12
5/19/05	24	7/13/05	0.12	9/6/05	3.2	10/31/05	7.4	12/25/05	12
5/20/05	31	7/14/05	0.25	9/7/05	2.3	11/1/05	6.2	12/26/05	12
5/21/05	50	7/15/05	0.1	9/8/05	5	11/2/05	7.7	12/27/05	12
5/22/05	58	7/16/05	0.03	9/9/05	3.3	11/3/05	6.8	12/28/05	11
5/23/05	54	7/17/05	0.03	9/10/05	3	11/4/05	6.5	12/29/05	10
5/24/05	54	7/18/05	0.03	9/11/05	3	11/5/05	7.4	12/30/05	9.4
5/25/05	64	7/19/05	2.8	9/12/05	3	11/6/05	7.8	12/31/05	11
5/26/05	71	7/20/05	0.1	9/13/05	1.3	11/7/05	8.1	1/1/06	10
5/27/05	63	7/21/05	0.05	9/14/05	0.97	11/8/05	7.6	1/2/06	9.1
5/28/05	60	7/22/05	0.12	9/15/05	1.7	11/9/05	7.4	1/3/06	9
5/29/05	58	7/23/05	0.17	9/16/05	2.1	11/10/05	5.4	1/4/06	8.3
5/30/05	52	7/24/05	0.32	9/17/05	0.42	11/11/05	6.3	1/5/06	9.4
5/31/05	44	7/25/05	0.23	9/18/05	0.57	11/12/05	8.3	1/6/06	9.5
6/1/05	37	7/26/05	0.2	9/19/05	0.24	11/13/05	7.5	1/7/06	9.5
6/2/05	33	7/27/05	0.15	9/20/05	0.1	11/14/05	8	1/8/06	9.9
6/3/05	28	7/28/05	1.1	9/21/05	0.9	11/15/05	7.4	1/9/06	10
6/4/05	24	7/29/05	0.26	9/22/05	0.17	11/16/05	4.9	1/10/06	9.3
6/5/05	23	7/30/05	0.65	9/23/05	0	11/17/05	5.2	1/11/06	9.2
6/6/05	21	7/31/05	0.18	9/24/05	0	11/18/05	7.8	1/12/06	9.1
6/7/05	18	8/1/05	0.15	9/25/05	0	11/19/05	10	1/13/06	9.2
6/8/05	17	8/2/05	0.18	9/26/05	0.71	11/20/05	9.8	1/14/06	9.3
6/9/05	14	8/3/05	0.19	9/27/05	0	11/21/05	11	1/15/06	9.5
6/10/05	15	8/4/05	0.18	9/28/05	0	11/22/05	9.5	1/16/06	10
6/11/05	14	8/5/05	0.19	9/29/05	29	11/23/05	8.6	1/17/06	9.2
6/12/05	9.6	8/6/05	0.21	9/30/05	9.9	11/24/05	9.1	1/18/06	8.8
6/13/05	7.4	8/7/05	0.19	10/1/05	4.8	11/25/05	9.4	1/19/06	8.9
6/14/05	5.7	8/8/05	0.24	10/2/05	4.3	11/26/05	10	1/20/06	9.1
6/15/05	3.8	8/9/05	0.19	10/3/05	3.1	11/27/05	9.1	1/21/06	9.2
6/16/05	2.5	8/10/05	0.18	10/4/05	4	11/28/05	9.1	1/22/06	8.3
6/17/05	1.2	8/11/05	0.15	10/5/05	5.9	11/29/05	8.5	1/23/06	9
6/18/05	1.2	8/12/05	3.7	10/6/05	6.3	11/30/05	8.8	1/24/06	9.2
6/19/05	0.83	8/13/05	5.3	10/7/05	6.8	12/1/05	8.6	1/25/06	11
6/20/05	0.52	8/14/05	1.7	10/8/05	6.3	12/2/05	7.9	1/26/06	10
6/21/05	3.4	8/15/05	2.2	10/9/05	9.2	12/3/05	8	1/27/06	9.8
6/22/05	13	8/16/05	3	10/10/05	7.3	12/4/05	7.9	1/28/06	10
6/23/05	2.4	8/17/05	2.6	10/11/05	5.5	12/5/05	8.3	1/29/06	11
6/24/05	0.98	8/18/05	1.7	10/12/05	5.7	12/6/05	8.2	1/30/06	11
6/25/05	1.1	8/19/05	0.63	10/13/05	5.2	12/7/05	7.2	1/31/06	10
6/26/05	1.7	8/20/05	0.18	10/14/05	5.4	12/8/05	6.3	2/1/06	9.6
6/27/05	2.2	8/21/05	0.17	10/15/05	6.9	12/9/05	7.5	2/2/06	9.1
6/28/05	1.3	8/22/05	0.17	10/16/05	9.5	12/10/05	8.2	2/3/06	6.7
6/29/05	0.72	8/23/05	0.27	10/17/05	6.7	12/11/05	8.6	2/4/06	7
6/30/05	0.51	8/24/05	0.33	10/18/05	4.8	12/12/05	7.9	2/5/06	8.7
7/1/05	0.19	8/25/05	0.15	10/19/05	6.6	12/13/05	7.7	2/6/06	7.7
7/2/05	0.17	8/26/05	0.12	10/20/05	6.4	12/14/05	8.5	2/7/06	6.7

Daily									
Date	Discharge (ft <sup>3</sup> /sec)	Date	Discharge (ft <sup>3</sup> /sec)	Date	Discharge (ft <sup>3</sup> /sec)	Date	Discharge (ft <sup>3</sup> /sec)	Date	Discharge (ft <sup>3</sup> /sec)
2/8/06	6.6	4/4/06	5.3	5/29/06	0.31	7/23/06	0.14	9/16/06	2.1
2/9/06	5.4	4/5/06	4.2	5/30/06	0.26	7/24/06	0.13	9/17/06	3.9
2/10/06	6.3	4/6/06	4.2	5/31/06	0.26	7/25/06	0.19	9/18/06	4.9
2/11/06	7.4	4/7/06	6.2	6/1/06	0.28	7/26/06	0.04	9/19/06	2.6
2/12/06	7.5	4/8/06	7.1	6/2/06	0.26	7/27/06	1	9/20/06	2.1
2/13/06	7.8	4/9/06	8.5	6/3/06	0.27	7/28/06	0.24	9/21/06	16
2/14/06	6.3	4/10/06	5.3	6/4/06	0.25	7/29/06	1.6	9/22/06	6.5
2/15/06	7.1	4/11/06	3.9	6/5/06	0.24	7/30/06	3.8	9/23/06	9.3
2/16/06	8	4/12/06	2.7	6/6/06	0.23	7/31/06	4.5	9/24/06	8.2
2/17/06	8.6	4/13/06	1.3	6/7/06	0.21	8/1/06	16	9/25/06	6.9
2/18/06	9.2	4/14/06	2.2	6/8/06	0.2	8/2/06	12	9/26/06	2.7
2/19/06	10	4/15/06	1.6	6/9/06	0.21	8/3/06	6.2	9/27/06	2.8
2/20/06	10	4/16/06	1.6	6/10/06	0.22	8/4/06	4.3	9/28/06	2.2
2/21/06	9.2	4/17/06	2.4	6/11/06	0.21	8/5/06	18	9/29/06	1.8
2/22/06	9.3	4/18/06	3.7	6/12/06	0.2	8/6/06	9.4	9/30/06	1.6
2/23/06	9.7	4/19/06	1.3	6/13/06	0.21	8/7/06	9.8		
2/24/06	7.4	4/20/06	1.4	6/14/06	0.2	8/8/06	4.2		
2/25/06	10	4/21/06	1.4	6/15/06	0.21	8/9/06	4.6		
2/26/06	11	4/22/06	1.9	6/16/06	0.21	8/10/06	3.9		
2/27/06	10	4/23/06	2.2	6/17/06	0.21	8/11/06	4.3		
2/28/06	9.1	4/24/06	2	6/18/06	0.2	8/12/06	2.8		
3/1/06	9.1	4/25/06	1.9	6/19/06	0.2	8/13/06	2.5		
3/2/06	7.4	4/26/06	1.6	6/20/06	0.21	8/14/06	17		
3/3/06	7.7	4/27/06	1.6	6/21/06	0.21	8/15/06	11		
3/4/06	7	4/28/06	1.9	6/22/06	0.2	8/16/06	14		
3/5/06	9.6	4/29/06	3.3	6/23/06	0.2	8/17/06	7.3		
3/6/06	9.5	4/30/06	3.7	6/24/06	0.2	8/18/06	8.6		
3/7/06	6.3	5/1/06	2.4	6/25/06	0.21	8/19/06	4		
3/8/06	2.7	5/2/06	1.7	6/26/06	0.22	8/20/06	11		
3/9/06	4.2	5/3/06	3.2	6/27/06	0.16	8/21/06	9.1		
3/10/06	6.1	5/4/06	1.8	6/28/06	0.11	8/22/06	6.9		
3/11/06	7	5/5/06	1.3	6/29/06	0.1	8/23/06	5.6		
3/12/06	8.3	5/6/06	3	6/30/06	0.09	8/24/06	4.7		
3/13/06	8.5	5/7/06	3.7	7/1/06	0.09	8/25/06	11		
3/14/06	7.1	5/8/06	4.1	7/2/06	0.62	8/26/06	23		
3/15/06	9	5/9/06	2	7/3/06	0.07	8/27/06	20		
3/16/06	10	5/10/06	1	7/4/06	0.07	8/28/06	18		
3/17/06	8.8	5/11/06	0.74	7/5/06	12	8/29/06	16		
3/18/06	10	5/12/06	0.63	7/6/06	6.4	8/30/06	17		
3/19/06	11	5/13/06	0.57	7/7/06	6.5	8/31/06	14		
3/20/06	11	5/14/06	0.98	7/8/06	2.6	9/1/06	17		
3/21/06	9.6	5/15/06	1.9	7/9/06	5.3	9/2/06	26		
3/22/06	7	5/16/06	1.3	7/10/06	7.9	9/3/06	20		
3/23/06	8.2	5/17/06	1.4	7/11/06	2.4	9/4/06	19		
3/24/06	5.8	5/18/06	1.9	7/12/06	2.6	9/5/06	16		
3/25/06	5.8	5/19/06	0.53	7/13/06	0.98	9/6/06	12		
3/26/06	8	5/20/06	0.71	7/14/06	0.52	9/7/06	13		
3/27/06	9.5	5/21/06	0.29	7/15/06	0.11	9/8/06	17		
3/28/06	8.6	5/22/06	0.17	7/16/06	0.22	9/9/06	13		
3/29/06	4.1	5/23/06	0.13	7/17/06	0.39	9/10/06	13		
3/30/06	8.1	5/24/06	0.14	7/18/06	0.08	9/11/06	13		
3/31/06	5.1	5/25/06	0.15	7/19/06	0.04	9/12/06	7.7		
4/1/06	7.5	5/26/06	0.15	7/20/06	0.03	9/13/06	5.9		
4/2/06	8.4	5/27/06	0.28	7/21/06	0.03	9/14/06	5.9		
4/3/06	8	5/28/06	0.19	7/22/06	0.09	9/15/06	2.9		