

**Appendix G:
Water Balance Results**

Cañada Chiquita (Alternative B-4) – Total Sub-basin¹

Pre-dev area = 4200 acres

Post-dev area = 4204 acres

All Years

	Pre-Development						Post-Development with PDFs							
	INFLOW	OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Runoff to Chiquita	Runoff to San Juan Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to Chiquita	Runoff to San Juan Crk	GW Outflow	ET	Total
OCT	0.3 (116)	0.0 (1)	0.0 (0)	0.1 (40)	0.3 (122)	0.5 (163)	0.3 (114)	0.1 (37)	0.4 (151)	0.0 (1)	0.0 (2)	0.1 (47)	0.4 (155)	0.6 (205)
NOV	1.7 (602)	0.0 (7)	0.0 (0)	0.1 (33)	0.7 (235)	0.8 (275)	1.7 (592)	0.0 (16)	1.7 (608)	0.0 (9)	0.0 (10)	0.1 (52)	0.7 (239)	0.9 (310)
DEC	2.3 (794)	0.0 (10)	0.0 (0)	0.1 (41)	0.8 (274)	0.9 (325)	2.2 (781)	0.0 (11)	2.3 (793)	0.0 (13)	0.0 (13)	0.2 (72)	0.8 (266)	1.0 (364)
JAN	3.8 (1336)	0.1 (25)	0.0 (0)	0.4 (131)	0.9 (325)	1.4 (481)	3.8 (1314)	0.0 (10)	3.8 (1324)	0.1 (32)	0.1 (22)	0.5 (180)	0.9 (310)	1.6 (544)
FEB	3.5 (1234)	0.1 (46)	0.0 (1)	0.8 (277)	1.2 (422)	2.1 (747)	3.5 (1214)	0.0 (8)	3.5 (1222)	0.1 (52)	0.1 (20)	0.9 (314)	1.1 (399)	2.2 (784)
MAR	2.9 (1025)	0.0 (14)	0.0 (0)	1.1 (396)	1.8 (625)	3.0 (1035)	2.9 (1008)	0.1 (31)	3.0 (1039)	0.1 (19)	0.0 (17)	1.2 (423)	1.7 (590)	3.0 (1049)
APR	1.2 (417)	0.0 (5)	0.0 (0)	0.7 (242)	2.2 (784)	2.9 (1030)	1.2 (410)	0.2 (59)	1.3 (469)	0.0 (5)	0.0 (6)	0.7 (257)	2.1 (744)	2.9 (1013)
MAY	0.4 (138)	0.0 (1)	0.0 (0)	0.4 (145)	2.2 (771)	2.6 (917)	0.4 (136)	0.2 (75)	0.6 (212)	0.0 (1)	0.0 (2)	0.4 (154)	2.2 (754)	2.6 (912)
JUN	0.1 (49)	0.0 (0)	0.0 (0)	0.3 (96)	1.2 (416)	1.5 (512)	0.1 (48)	0.3 (89)	0.4 (138)	0.0 (0)	0.0 (1)	0.3 (103)	1.3 (464)	1.6 (568)
JUL	0.0 (11)	0.0 (0)	0.0 (0)	0.2 (75)	0.2 (55)	0.4 (130)	0.0 (11)	0.3 (91)	0.3 (102)	0.0 (0)	0.0 (0)	0.2 (82)	0.4 (140)	0.6 (222)
AUG	0.1 (40)	0.0 (0)	0.0 (0)	0.2 (59)	0.1 (40)	0.3 (99)	0.1 (39)	0.2 (84)	0.4 (123)	0.0 (0)	0.0 (1)	0.2 (66)	0.3 (118)	0.5 (186)
SEP	0.4 (123)	0.0 (1)	0.0 (0)	0.1 (46)	0.3 (92)	0.4 (140)	0.3 (121)	0.2 (60)	0.5 (181)	0.0 (2)	0.0 (2)	0.2 (55)	0.4 (147)	0.6 (205)
Total	16.8 (5886)	0.3 (112)	0.0 (1)	4.5 (1581)	11.9 (4160)	16.7 (5854)	16.5 (5790)	1.6 (571)	18.2 (6360)	0.4 (135)	0.3 (95)	5.2 (1806)	12.3 (4326)	18.2 (6362)

Dry Period

	Pre-Development						Post-Development with PDFs							
	INFLOW	OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Runoff to Chiquita	Runoff to San Juan Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to Chiquita	Runoff to San Juan Crk	GW Outflow	ET	Total
OCT	0.3 (116)	0.0 (1)	0.0 (0)	0.1 (30)	0.4 (140)	0.5 (171)	0.3 (114)	0.1 (36)	0.4 (151)	0.0 (1)	0.0 (2)	0.1 (38)	0.5 (170)	0.6 (211)
NOV	1.9 (651)	0.0 (8)	0.0 (0)	0.1 (25)	0.7 (250)	0.8 (283)	1.8 (640)	0.0 (16)	1.9 (656)	0.0 (10)	0.0 (11)	0.1 (47)	0.7 (253)	0.9 (320)
DEC	2.4 (843)	0.0 (11)	0.0 (0)	0.1 (35)	0.8 (288)	1.0 (333)	2.4 (830)	0.0 (11)	2.4 (841)	0.0 (14)	0.0 (14)	0.2 (68)	0.8 (277)	1.1 (373)
JAN	2.8 (997)	0.0 (13)	0.0 (0)	0.2 (56)	0.9 (326)	1.1 (395)	2.8 (981)	0.0 (10)	2.8 (991)	0.0 (17)	0.0 (16)	0.3 (97)	0.9 (311)	1.3 (441)
FEB	2.5 (867)	0.1 (22)	0.0 (0)	0.3 (106)	1.2 (420)	1.6 (548)	2.4 (853)	0.0 (8)	2.5 (861)	0.1 (25)	0.0 (14)	0.4 (140)	1.1 (396)	1.6 (575)
MAR	2.0 (685)	0.0 (8)	0.0 (0)	0.5 (169)	1.8 (617)	2.3 (794)	1.9 (673)	0.1 (31)	2.0 (704)	0.0 (9)	0.0 (11)	0.6 (194)	1.7 (584)	2.3 (798)
APR	1.2 (433)	0.0 (5)	0.0 (0)	0.4 (133)	2.2 (772)	2.6 (909)	1.2 (426)	0.2 (58)	1.4 (484)	0.0 (5)	0.0 (7)	0.4 (150)	2.1 (736)	2.6 (898)
MAY	0.4 (137)	0.0 (1)	0.0 (0)	0.2 (81)	2.1 (732)	2.3 (815)	0.4 (135)	0.2 (74)	0.6 (209)	0.0 (1)	0.0 (2)	0.3 (92)	2.1 (725)	2.3 (820)
JUN	0.1 (35)	0.0 (0)	0.0 (0)	0.2 (57)	1.1 (371)	1.2 (428)	0.1 (35)	0.3 (88)	0.4 (123)	0.0 (0)	0.0 (0)	0.2 (65)	1.2 (428)	1.4 (494)
JUL	0.0 (15)	0.0 (0)	0.0 (0)	0.1 (46)	0.1 (49)	0.3 (95)	0.0 (15)	0.3 (90)	0.3 (104)	0.0 (0)	0.0 (0)	0.2 (54)	0.4 (134)	0.5 (189)
AUG	0.1 (45)	0.0 (0)	0.0 (0)	0.1 (37)	0.1 (42)	0.2 (79)	0.1 (44)	0.2 (83)	0.4 (127)	0.0 (1)	0.0 (1)	0.1 (46)	0.3 (118)	0.5 (165)
SEP	0.3 (117)	0.0 (1)	0.0 (0)	0.1 (30)	0.3 (92)	0.4 (140)	0.3 (115)	0.2 (60)	0.5 (175)	0.0 (1)	0.0 (2)	0.1 (40)	0.4 (145)	0.5 (189)
Total	14.1 (4941)	0.2 (70)	0.0 (0)	2.3 (805)	11.7 (4099)	14.2 (4974)	13.9 (4860)	1.6 (565)	15.5 (5426)	0.2 (84)	0.2 (79)	2.9 (1031)	12.2 (4279)	15.6 (5473)

Wet Period

	Pre-Development						Post-Development with PDFs							
	INFLOW	OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Runoff to Chiquita	Runoff to San Juan Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to Chiquita	Runoff to San Juan Crk	GW Outflow	ET	Total
OCT	0.3 (115)	0.0 (1)	0.0 (0)	0.2 (61)	0.2 (83)	0.4 (145)	0.3 (113)	0.1 (37)	0.4 (150)	0.0 (1)	0.0 (2)	0.2 (67)	0.3 (122)	0.5 (192)
NOV	1.4 (498)	0.0 (6)	0.0 (0)	0.1 (49)	0.6 (202)	0.7 (257)	1.4 (490)	0.0 (16)	1.4 (506)	0.0 (8)	0.0 (8)	0.2 (64)	0.6 (210)	0.8 (289)
DEC	2.0 (691)	0.0 (8)	0.0 (0)	0.2 (53)	0.7 (246)	0.9 (308)	1.9 (679)	0.0 (11)	2.0 (691)	0.0 (11)	0.0 (12)	0.2 (82)	0.7 (241)	1.0 (345)
JAN	5.9 (2054)	0.1 (51)	0.0 (0)	0.8 (290)	0.9 (321)	1.9 (663)	5.8 (2020)	0.0 (10)	5.8 (2030)	0.2 (64)	0.1 (33)	1.0 (355)	0.9 (309)	2.2 (761)
FEB	5.7 (2012)	0.3 (98)	0.0 (3)	1.8 (642)	1.2 (426)	3.3 (1169)	5.6 (1979)	0.0 (8)	5.7 (1987)	0.3 (110)	0.1 (32)	1.9 (682)	1.2 (404)	3.5 (1228)
MAR	5.0 (1745)	0.1 (28)	0.0 (0)	2.5 (878)	1.8 (640)	4.4 (1546)	4.9 (1717)	0.1 (30)	5.0 (1747)	0.1 (41)	0.1 (29)	2.6 (907)	1.7 (605)	4.5 (1582)
APR	1.1 (382)	0.0 (4)	0.0 (0)	1.3 (472)	2.3 (810)	3.7 (1287)	1.1 (376)	0.2 (60)	1.2 (436)	0.0 (5)	0.0 (6)	1.4 (484)	2.2 (761)	3.6 (1256)
MAY	0.4 (141)	0.0 (2)	0.0 (0)	0.8 (280)	2.4 (854)	3.2 (1135)	0.4 (139)	0.2 (76)	0.6 (215)	0.0 (2)	0.0 (2)	0.8 (287)	2.3 (815)	3.2 (1106)
JUN	0.2 (78)	0.0 (1)	0.0 (0)	0.5 (178)	1.5 (510)	2.0 (689)	0.2 (77)	0.3 (89)	0.5 (166)	0.0 (1)	0.0 (1)	0.5 (183)	1.5 (539)	2.1 (724)
JUL	0.0 (4)	0.0 (0)	0.0 (0)	0.4 (135)	0.2 (67)	0.6 (202)	0.0 (4)	0.3 (91)	0.3 (95)	0.0 (0)	0.0 (0)	0.4 (140)	0.4 (151)	0.8 (291)
AUG	0.1 (29)	0.0 (0)	0.0 (0)	0.3 (104)	0.1 (36)	0.4 (140)	0.1 (29)	0.2 (84)	0.3 (113)	0.0 (0)	0.0 (0)	0.3 (109)	0.3 (118)	0.7 (228)
SEP	0.4 (136)	0.0 (2)	0.0 (0)	0.2 (81)	0.3 (94)	0.5 (176)	0.4 (134)	0.2 (60)	0.6 (194)	0.0 (2)	0.0 (2)	0.3 (88)	0.4 (149)	0.7 (240)
Total	22.5 (7887)	0.6 (201)	0.0 (3)	9.2 (3223)	12.3 (4289)	22.0 (7716)	22.1 (7758)	1.6 (572)	23.8 (8330)	0.7 (244)	0.4 (127)	9.8 (3447)	12.6 (4425)	23.5 (8244)

Notes:

(1) This includes the catchments within the Cañada Chiquita Sub-basin. Due to the grading plans of PA2, the total tributary area increases from pre to post development conditions.

Cañada Gobernadora (Alternative B-4) – Total Sub-basin

Pre-dev area = 7049 acres

Post-dev area = 7033 acres

All Years

	Pre-Development						Post-Development with PDEs							
	INFLOW	OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Runoff to Gobernadora Crk	Runoff to San Juan Crk	Total GW Flows	ET	Total	Precipitation	Irrigation	Total	Runoff to Gobernadora Crk	Runoff to San Juan Crk	Total GW Flows	ET	Total
OCT	0.3 (172)	0.0 (16)	0.0 (0)	0.2 (116)	0.3 (185)	0.5 (317)	0.3 (171)	0.1 (64)	0.4 (235)	0.0 (16)	0.0 (2)	0.2 (125)	0.4 (245)	0.7 (388)
NOV	1.5 (891)	0.2 (131)	0.0 (0)	0.2 (103)	0.5 (267)	0.9 (501)	1.5 (888)	0.0 (27)	1.6 (915)	0.2 (135)	0.0 (13)	0.2 (135)	0.5 (282)	1.0 (565)
DEC	2.0 (1175)	0.3 (193)	0.0 (0)	0.2 (111)	0.5 (289)	1.0 (593)	2.0 (1172)	0.0 (20)	2.0 (1192)	0.3 (196)	0.0 (18)	0.3 (164)	0.5 (284)	1.1 (662)
JAN	3.4 (1974)	0.6 (376)	0.0 (0)	0.3 (169)	0.6 (337)	1.5 (881)	3.4 (1969)	0.0 (16)	3.4 (1985)	0.6 (375)	0.1 (30)	0.4 (246)	0.5 (322)	1.7 (973)
FEB	3.1 (1826)	0.8 (483)	0.0 (2)	0.4 (252)	0.7 (430)	2.0 (1167)	3.1 (1821)	0.0 (12)	3.1 (1834)	0.8 (480)	0.0 (28)	0.5 (310)	0.7 (406)	2.1 (1225)
MAR	2.6 (1517)	0.5 (301)	0.0 (0)	0.6 (354)	1.0 (602)	2.1 (1258)	2.6 (1513)	0.1 (49)	2.7 (1562)	0.5 (296)	0.0 (24)	0.7 (400)	1.0 (571)	2.2 (1292)
APR	1.0 (616)	0.1 (84)	0.0 (0)	0.5 (296)	1.2 (695)	1.8 (1074)	1.0 (614)	0.2 (94)	1.2 (708)	0.1 (83)	0.0 (9)	0.5 (321)	1.1 (656)	1.8 (1069)
MAY	0.4 (206)	0.0 (19)	0.0 (0)	0.4 (237)	1.2 (676)	1.6 (932)	0.3 (205)	0.2 (122)	0.6 (327)	0.0 (19)	0.0 (3)	0.4 (250)	1.2 (678)	1.6 (950)
JUN	0.1 (73)	0.0 (5)	0.0 (0)	0.3 (188)	0.9 (539)	1.2 (732)	0.1 (73)	0.2 (146)	0.4 (218)	0.0 (5)	0.0 (1)	0.3 (194)	1.1 (644)	1.4 (844)
JUL	0.0 (17)	0.0 (1)	0.0 (0)	0.3 (166)	0.7 (384)	0.9 (551)	0.0 (17)	0.3 (150)	0.3 (166)	0.0 (1)	0.0 (0)	0.3 (169)	0.9 (528)	1.2 (698)
AUG	0.1 (60)	0.0 (6)	0.0 (0)	0.2 (145)	0.5 (274)	0.7 (426)	0.1 (59)	0.2 (140)	0.3 (199)	0.0 (7)	0.0 (1)	0.3 (150)	0.7 (407)	1.0 (564)
SEP	0.3 (183)	0.0 (22)	0.0 (0)	0.2 (125)	0.3 (201)	0.6 (348)	0.3 (182)	0.2 (101)	0.5 (283)	0.0 (22)	0.0 (2)	0.2 (133)	0.5 (294)	0.8 (452)
Total	14.8 (8708)	2.8 (1636)	0.0 (2)	3.9 (2262)	8.3 (4879)	14.9 (8780)	14.8 (8685)	1.6 (940)	16.4 (9625)	2.8 (1635)	0.2 (132)	4.4 (2598)	9.1 (5317)	16.5 (9682)

Dry Period

	Pre-Development						Post-Development with PDEs							
	INFLOW	OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Runoff to Gobernadora Crk	Runoff to San Juan Crk	Total GW Flows	ET	Total	Precipitation	Irrigation	Total	Runoff to Gobernadora Crk	Runoff to San Juan Crk	Total GW Flows	ET	Total
OCT	0.3 (172)	0.0 (15)	0.0 (0)	0.1 (85)	0.3 (202)	0.5 (302)	0.3 (172)	0.1 (63)	0.4 (235)	0.0 (16)	0.0 (2)	0.2 (95)	0.4 (258)	0.6 (371)
NOV	1.6 (961)	0.2 (143)	0.0 (0)	0.1 (76)	0.5 (284)	0.9 (503)	1.6 (959)	0.0 (27)	1.7 (985)	0.3 (147)	0.0 (14)	0.2 (112)	0.5 (296)	1.0 (570)
DEC	2.1 (1245)	0.4 (206)	0.0 (0)	0.1 (86)	0.5 (299)	1.0 (591)	2.1 (1242)	0.0 (20)	2.2 (1262)	0.4 (209)	0.0 (19)	0.2 (142)	0.5 (291)	1.1 (662)
JAN	2.5 (1469)	0.4 (252)	0.0 (0)	0.2 (104)	0.6 (324)	1.2 (680)	2.5 (1465)	0.0 (16)	2.5 (1481)	0.4 (255)	0.0 (23)	0.3 (172)	0.5 (309)	1.3 (758)
FEB	2.2 (1280)	0.4 (234)	0.0 (0)	0.2 (130)	0.7 (401)	1.3 (764)	2.2 (1277)	0.0 (12)	2.2 (1289)	0.4 (230)	0.0 (19)	0.3 (186)	0.6 (374)	1.4 (810)
MAR	1.7 (1012)	0.3 (148)	0.0 (0)	0.3 (183)	1.0 (587)	1.6 (917)	1.7 (1009)	0.1 (50)	1.8 (1059)	0.2 (142)	0.0 (16)	0.4 (226)	0.9 (554)	1.6 (938)
APR	1.1 (638)	0.2 (88)	0.0 (0)	0.3 (168)	1.2 (714)	1.7 (970)	1.1 (637)	0.2 (94)	1.2 (730)	0.1 (88)	0.0 (9)	0.3 (198)	1.2 (677)	1.7 (972)
MAY	0.3 (204)	0.0 (16)	0.0 (0)	0.2 (137)	1.2 (707)	1.5 (859)	0.3 (203)	0.2 (121)	0.6 (324)	0.0 (16)	0.0 (3)	0.3 (152)	1.2 (711)	1.5 (882)
JUN	0.1 (53)	0.0 (3)	0.0 (0)	0.2 (111)	1.0 (566)	1.2 (680)	0.1 (52)	0.2 (146)	0.3 (198)	0.0 (3)	0.0 (1)	0.2 (119)	1.2 (677)	1.4 (799)
JUL	0.0 (22)	0.0 (1)	0.0 (0)	0.2 (100)	0.7 (435)	0.9 (536)	0.0 (22)	0.3 (150)	0.3 (171)	0.0 (1)	0.0 (0)	0.2 (106)	1.0 (578)	1.2 (685)
AUG	0.1 (67)	0.0 (8)	0.0 (0)	0.2 (89)	0.5 (297)	0.7 (394)	0.1 (67)	0.2 (140)	0.4 (206)	0.0 (8)	0.0 (1)	0.2 (96)	0.7 (429)	0.9 (533)
SEP	0.3 (173)	0.0 (21)	0.0 (0)	0.1 (78)	0.4 (212)	0.5 (310)	0.3 (173)	0.2 (101)	0.5 (274)	0.0 (21)	0.0 (2)	0.1 (88)	0.5 (304)	0.7 (416)
Total	12.4 (7297)	1.9 (1133)	0.0 (0)	2.3 (1346)	8.6 (5027)	12.8 (7507)	12.4 (7277)	1.6 (939)	14.0 (8217)	1.9 (1137)	0.2 (110)	2.9 (1690)	9.3 (5458)	14.3 (8394)

Wet Period

	Pre-Development						Post-Development with PDEs							
	INFLOW	OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Runoff to Gobernadora Crk	Runoff to San Juan Crk	Total GW Flows	ET	Total	Precipitation	Irrigation	Total	Runoff to Gobernadora Crk	Runoff to San Juan Crk	Total GW Flows	ET	Total
OCT	0.3 (171)	0.0 (17)	0.0 (0)	0.3 (182)	0.3 (151)	0.6 (350)	0.3 (170)	0.1 (64)	0.4 (234)	0.0 (17)	0.0 (2)	0.3 (189)	0.4 (217)	0.7 (426)
NOV	1.3 (741)	0.2 (106)	0.0 (0)	0.3 (158)	0.4 (232)	0.8 (496)	1.3 (739)	0.0 (27)	1.3 (766)	0.2 (110)	0.0 (11)	0.3 (184)	0.4 (252)	0.9 (556)
DEC	1.7 (1027)	0.3 (166)	0.0 (0)	0.3 (163)	0.5 (268)	1.0 (597)	1.7 (1024)	0.0 (20)	1.8 (1044)	0.3 (167)	0.0 (16)	0.4 (210)	0.5 (268)	1.1 (662)
JAN	5.2 (3045)	1.1 (638)	0.0 (0)	0.5 (307)	0.6 (362)	2.2 (1307)	5.2 (3037)	0.0 (16)	5.2 (3053)	1.1 (628)	0.1 (46)	0.7 (404)	0.6 (350)	2.4 (1428)
FEB	5.1 (2983)	1.7 (1010)	0.0 (6)	0.9 (510)	0.8 (492)	3.4 (2019)	5.1 (2975)	0.0 (12)	5.1 (2987)	1.7 (1008)	0.1 (47)	1.0 (573)	0.8 (474)	3.6 (2104)
MAR	4.4 (2585)	1.1 (627)	0.0 (0)	1.2 (718)	1.1 (635)	3.4 (1980)	4.4 (2579)	0.1 (48)	4.5 (2627)	1.1 (623)	0.1 (42)	1.3 (770)	1.0 (607)	3.5 (2041)
APR	1.0 (568)	0.1 (75)	0.0 (0)	1.0 (566)	1.1 (655)	2.2 (1296)	1.0 (566)	0.2 (95)	1.1 (662)	0.1 (73)	0.0 (8)	1.0 (581)	1.0 (613)	2.2 (1275)
MAY	0.4 (209)	0.0 (25)	0.0 (0)	0.8 (451)	1.0 (611)	1.8 (1087)	0.4 (209)	0.2 (123)	0.6 (332)	0.0 (25)	0.0 (3)	0.8 (457)	1.0 (608)	1.9 (1094)
JUN	0.2 (116)	0.0 (10)	0.0 (0)	0.6 (352)	0.8 (482)	1.4 (843)	0.2 (116)	0.2 (146)	0.4 (262)	0.0 (10)	0.0 (1)	0.6 (353)	1.0 (575)	1.6 (941)
JUL	0.0 (6)	0.0 (0)	0.0 (0)	0.5 (306)	0.5 (275)	1.0 (581)	0.0 (6)	0.3 (150)	0.3 (156)	0.0 (0)	0.0 (0)	0.5 (305)	0.7 (422)	1.2 (727)
AUG	0.1 (44)	0.0 (4)	0.0 (0)	0.4 (264)	0.4 (225)	0.8 (493)	0.1 (44)	0.2 (140)	0.3 (183)	0.0 (4)	0.0 (1)	0.5 (264)	0.6 (359)	1.1 (628)
SEP	0.3 (202)	0.0 (24)	0.0 (0)	0.4 (223)	0.3 (180)	0.7 (427)	0.3 (202)	0.2 (101)	0.5 (302)	0.0 (24)	0.0 (3)	0.4 (229)	0.5 (272)	0.9 (528)
Total	19.9 (11697)	4.6 (2701)	0.0 (7)	7.2 (4201)	7.8 (4567)	19.5 (11475)	19.9 (11666)	1.6 (943)	21.5 (12609)	4.6 (2691)	0.3 (180)	7.7 (4520)	8.6 (5018)	21.2 (12408)

Notes:

- (1) This includes the total Cañada Gobernadora Sub-basin. Due to the grading plans of PA3, the total tributary area increases from pre to post development conditions.

Cañada Gobernadora (Alternative B-4) – Excludes Coto de Caza and Wagon Wheel

Pre-dev area = 2140 acres

Post-dev area = 2124 acres

All Years

	Pre-Development						Post-Development with PDEs							
	INFLOW	OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Runoff to Gobernadora Crk	Runoff to San Juan Crk	Total GW Flows	ET	Total	Precipitation	Irrigation	Total	Runoff to Gobernadora Crk	Runoff to San Juan Crk	Total GW Flows	ET	Total
OCT	0.3 (51)	0.0 (1)	0.0 (0)	0.2 (34)	0.3 (46)	0.5 (82)	0.3 (51)	0.4 (64)	0.6 (114)	0.0 (2)	0.0 (2)	0.2 (43)	0.6 (105)	0.9 (153)
NOV	1.5 (266)	0.1 (13)	0.0 (0)	0.2 (30)	0.5 (85)	0.7 (128)	1.5 (264)	0.2 (27)	1.6 (290)	0.1 (16)	0.1 (13)	0.4 (63)	0.6 (100)	1.1 (192)
DEC	2.0 (351)	0.1 (24)	0.0 (0)	0.2 (40)	0.6 (101)	0.9 (165)	2.0 (348)	0.1 (20)	2.1 (367)	0.2 (27)	0.1 (18)	0.5 (93)	0.5 (95)	1.3 (234)
JAN	3.3 (590)	0.3 (61)	0.0 (0)	0.5 (84)	0.7 (119)	1.5 (264)	3.3 (584)	0.1 (16)	3.4 (601)	0.3 (60)	0.2 (30)	0.9 (161)	0.6 (105)	2.0 (356)
FEB	3.1 (545)	0.4 (80)	0.0 (2)	0.8 (140)	0.9 (156)	2.1 (378)	3.1 (540)	0.1 (12)	3.1 (553)	0.4 (77)	0.2 (28)	1.1 (199)	0.7 (132)	2.5 (436)
MAR	2.5 (453)	0.3 (58)	0.0 (0)	1.1 (193)	1.3 (225)	2.7 (476)	2.5 (449)	0.3 (49)	2.8 (498)	0.3 (53)	0.1 (24)	1.4 (239)	1.1 (193)	2.9 (510)
APR	1.0 (184)	0.1 (15)	0.0 (0)	0.8 (135)	1.5 (276)	2.4 (426)	1.0 (182)	0.5 (94)	1.6 (276)	0.1 (14)	0.1 (9)	0.9 (160)	1.3 (237)	2.4 (420)
MAY	0.3 (61)	0.0 (3)	0.0 (0)	0.5 (94)	1.3 (232)	1.8 (329)	0.3 (61)	0.7 (122)	1.0 (182)	0.0 (3)	0.0 (3)	0.6 (106)	1.3 (235)	2.0 (347)
JUN	0.1 (22)	0.0 (1)	0.0 (0)	0.4 (68)	0.5 (91)	0.9 (159)	0.1 (22)	0.8 (146)	0.9 (167)	0.0 (1)	0.0 (1)	0.4 (74)	1.1 (196)	1.5 (271)
JUL	0.0 (5)	0.0 (0)	0.0 (0)	0.3 (56)	0.1 (20)	0.4 (76)	0.0 (5)	0.8 (150)	0.9 (155)	0.0 (0)	0.0 (0)	0.3 (59)	0.9 (164)	1.3 (224)
AUG	0.1 (18)	0.0 (1)	0.0 (0)	0.3 (47)	0.1 (17)	0.4 (65)	0.1 (18)	0.8 (140)	0.9 (157)	0.0 (1)	0.0 (1)	0.3 (51)	0.8 (150)	1.1 (202)
SEP	0.3 (55)	0.0 (2)	0.0 (0)	0.2 (38)	0.2 (35)	0.4 (75)	0.3 (54)	0.6 (101)	0.9 (155)	0.0 (2)	0.0 (2)	0.3 (47)	0.7 (128)	1.0 (179)
Total	14.6 (2600)	1.4 (258)	0.0 (2)	5.4 (959)	7.9 (1403)	14.7 (2622)	14.6 (2577)	5.3 (940)	19.9 (3517)	1.5 (257)	0.7 (132)	7.3 (1296)	10.4 (1840)	19.9 (3524)

Dry Period

	Pre-Development						Post-Development with PDEs							
	INFLOW	OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Runoff to Gobernadora Crk	Runoff to San Juan Crk	Total GW Flows	ET	Total	Precipitation	Irrigation	Total	Runoff to Gobernadora Crk	Runoff to San Juan Crk	Total GW Flows	ET	Total
OCT	0.3 (51)	0.0 (1)	0.0 (0)	0.2 (29)	0.3 (52)	0.5 (82)	0.3 (51)	0.4 (63)	0.6 (114)	0.0 (2)	0.0 (2)	0.2 (38)	0.6 (108)	0.9 (151)
NOV	1.6 (287)	0.1 (14)	0.0 (0)	0.1 (26)	0.5 (89)	0.7 (129)	1.6 (284)	0.2 (27)	1.8 (311)	0.1 (17)	0.1 (14)	0.4 (62)	0.6 (102)	1.1 (195)
DEC	2.1 (372)	0.1 (26)	0.0 (0)	0.2 (36)	0.6 (105)	0.9 (166)	2.1 (368)	0.1 (20)	2.2 (388)	0.2 (29)	0.1 (19)	0.5 (92)	0.5 (97)	1.3 (237)
JAN	2.5 (438)	0.2 (33)	0.0 (0)	0.3 (52)	0.7 (118)	1.1 (204)	2.5 (434)	0.1 (16)	2.5 (451)	0.2 (37)	0.1 (23)	0.7 (121)	0.6 (103)	1.6 (283)
FEB	2.1 (382)	0.2 (40)	0.0 (0)	0.4 (78)	0.9 (153)	1.5 (272)	2.1 (379)	0.1 (12)	2.2 (391)	0.2 (37)	0.1 (19)	0.8 (134)	0.7 (127)	1.8 (317)
MAR	1.7 (302)	0.2 (27)	0.0 (0)	0.6 (107)	1.3 (224)	2.0 (359)	1.7 (299)	0.3 (50)	2.0 (349)	0.1 (22)	0.1 (16)	0.8 (150)	1.1 (191)	2.1 (379)
APR	1.1 (191)	0.1 (14)	0.0 (0)	0.5 (88)	1.5 (276)	2.1 (378)	1.1 (189)	0.5 (94)	1.6 (283)	0.1 (14)	0.1 (9)	0.7 (118)	1.3 (239)	2.1 (380)
MAY	0.3 (61)	0.0 (2)	0.0 (0)	0.4 (65)	1.3 (233)	1.7 (300)	0.3 (60)	0.7 (121)	1.0 (181)	0.0 (3)	0.0 (3)	0.5 (80)	1.3 (237)	1.8 (322)
JUN	0.1 (16)	0.0 (0)	0.0 (0)	0.3 (49)	0.5 (84)	0.7 (133)	0.1 (16)	0.8 (146)	0.9 (161)	0.0 (0)	0.0 (1)	0.3 (57)	1.1 (194)	1.4 (252)
JUL	0.0 (7)	0.0 (0)	0.0 (0)	0.2 (42)	0.1 (23)	0.4 (65)	0.0 (6)	0.8 (150)	0.9 (156)	0.0 (0)	0.0 (0)	0.3 (47)	0.9 (166)	1.2 (214)
AUG	0.1 (20)	0.0 (1)	0.0 (0)	0.2 (36)	0.1 (20)	0.3 (56)	0.1 (20)	0.8 (140)	0.9 (159)	0.0 (1)	0.0 (1)	0.2 (42)	0.9 (151)	1.1 (195)
SEP	0.3 (52)	0.0 (2)	0.0 (0)	0.2 (30)	0.2 (36)	0.4 (68)	0.3 (51)	0.6 (101)	0.9 (153)	0.0 (2)	0.0 (2)	0.2 (40)	0.7 (129)	1.0 (174)
Total	12.2 (2178)	0.9 (161)	0.0 (0)	3.6 (638)	7.9 (1412)	12.4 (2212)	12.2 (2158)	5.3 (939)	17.5 (3097)	0.9 (164)	0.6 (110)	5.5 (982)	10.4 (1843)	17.5 (3099)

Wet Period

	Pre-Development						Post-Development with PDEs							
	INFLOW	OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Runoff to Gobernadora Crk	Runoff to San Juan Crk	Total GW Flows	ET	Total	Precipitation	Irrigation	Total	Runoff to Gobernadora Crk	Runoff to San Juan Crk	Total GW Flows	ET	Total
OCT	0.3 (51)	0.0 (1)	0.0 (0)	0.3 (45)	0.2 (35)	0.5 (82)	0.3 (51)	0.4 (64)	0.6 (114)	0.0 (2)	0.0 (2)	0.3 (53)	0.6 (101)	0.9 (157)
NOV	1.2 (221)	0.1 (10)	0.0 (0)	0.2 (39)	0.4 (76)	0.7 (124)	1.2 (219)	0.2 (27)	1.4 (246)	0.1 (14)	0.1 (11)	0.4 (64)	0.5 (96)	1.0 (185)
DEC	1.7 (307)	0.1 (22)	0.0 (0)	0.3 (48)	0.5 (92)	0.9 (162)	1.7 (304)	0.1 (20)	1.8 (324)	0.1 (23)	0.1 (16)	0.5 (95)	0.5 (91)	1.3 (226)
JAN	5.1 (910)	0.7 (120)	0.0 (0)	0.8 (149)	0.7 (122)	2.2 (392)	5.1 (902)	0.1 (16)	5.2 (918)	0.6 (110)	0.3 (46)	1.4 (247)	0.6 (110)	2.9 (512)
FEB	5.0 (891)	0.9 (165)	0.0 (6)	1.5 (272)	0.9 (161)	3.4 (604)	5.0 (883)	0.1 (12)	5.1 (896)	0.9 (163)	0.3 (47)	1.9 (335)	0.8 (143)	3.9 (689)
MAR	4.3 (772)	0.7 (124)	0.0 (0)	2.1 (375)	1.3 (226)	4.1 (725)	4.3 (765)	0.3 (48)	4.6 (814)	0.7 (120)	0.2 (42)	2.4 (427)	1.1 (198)	4.4 (787)
APR	1.0 (170)	0.1 (15)	0.0 (0)	1.3 (234)	1.5 (276)	2.9 (526)	0.9 (168)	0.5 (95)	1.5 (263)	0.1 (14)	0.0 (8)	1.4 (249)	1.3 (235)	2.9 (505)
MAY	0.4 (63)	0.0 (5)	0.0 (0)	0.9 (156)	1.3 (232)	2.2 (392)	0.4 (62)	0.7 (123)	1.0 (185)	0.0 (5)	0.0 (3)	0.9 (162)	1.3 (229)	2.3 (399)
JUN	0.2 (35)	0.0 (1)	0.0 (0)	0.6 (108)	0.6 (105)	1.2 (214)	0.2 (34)	0.8 (146)	1.0 (180)	0.0 (1)	0.0 (1)	0.6 (109)	1.1 (199)	1.8 (311)
JUL	0.0 (2)	0.0 (0)	0.0 (0)	0.5 (86)	0.1 (12)	0.6 (99)	0.0 (2)	0.8 (150)	0.9 (152)	0.0 (0)	0.0 (0)	0.5 (85)	0.9 (160)	1.4 (244)
AUG	0.1 (13)	0.0 (0)	0.0 (0)	0.4 (70)	0.1 (13)	0.5 (83)	0.1 (13)	0.8 (140)	0.9 (153)	0.0 (0)	0.0 (1)	0.4 (70)	0.8 (147)	1.2 (218)
SEP	0.3 (60)	0.0 (2)	0.0 (0)	0.3 (56)	0.2 (32)	0.5 (90)	0.3 (60)	0.6 (101)	0.9 (161)	0.0 (2)	0.0 (3)	0.4 (62)	0.7 (125)	1.1 (191)
Total	19.6 (3494)	2.6 (464)	0.0 (7)	9.2 (1639)	7.8 (1382)	19.6 (3492)	19.6 (3464)	5.3 (943)	24.9 (4406)	2.6 (454)	1.0 (180)	11.1 (1959)	10.4 (1833)	25.0 (4425)

Notes:

- (1) This includes the catchments within the Cañada Gobernadora Sub-basin with the exception of Coto de Caza and Wagon Wheel. Due to the grading plans of PA3, the total tributary area increases from pre to post development conditions.

Cañada Gobernadora (Alternative B-4) – Coto de Caza & Wagon Wheel (Multi-Purpose Basin)¹

Pre-dev area = 4909 acres
 Post-dev area = 4909 acres

All Years

	Current Conditions without the Multi-Purpose Basin					Current Conditions with the Multi-Purpose Basin					
	INFLOW	OUTFLOW				INFLOW	OUTFLOW				
	Precipitation	Runoff to Gobernadora Crk	Total GO Flows	ET	Total	Precipitation	Withdrawal from Modulation Basin	Discharge to Gobernadora (bypass)	GW Flows	ET	Total
OCT	0.3 (120)	0.0 (14)	0.2 (82)	0.3 (139)	0.6 (236)	0.3 (120)	0.0 (13)	0.0 (0)	0.2 (82)	0.3 (139)	0.6 (234)
NOV	1.5 (625)	0.3 (119)	0.2 (72)	0.4 (182)	0.9 (373)	1.5 (625)	0.3 (110)	0.0 (0)	0.2 (72)	0.4 (183)	0.9 (365)
DEC	2.0 (824)	0.4 (169)	0.2 (71)	0.5 (189)	1.0 (428)	2.0 (824)	0.4 (164)	0.0 (2)	0.2 (71)	0.5 (189)	1.0 (426)
JAN	3.4 (1385)	0.8 (314)	0.2 (85)	0.5 (217)	1.5 (617)	3.4 (1385)	0.7 (290)	0.0 (14)	0.2 (85)	0.5 (218)	1.5 (607)
FEB	3.1 (1281)	1.0 (402)	0.3 (112)	0.7 (274)	1.9 (788)	3.1 (1281)	0.7 (294)	0.3 (126)	0.3 (112)	0.7 (275)	2.0 (807)
MAR	2.6 (1064)	0.6 (243)	0.4 (161)	0.9 (377)	1.9 (782)	2.6 (1064)	0.6 (251)	0.0 (19)	0.4 (161)	0.9 (379)	2.0 (811)
APR	1.1 (432)	0.2 (69)	0.4 (160)	1.0 (419)	1.6 (649)	1.1 (432)	0.2 (67)	0.0 (0)	0.4 (160)	1.0 (420)	1.6 (648)
MAY	0.4 (144)	0.0 (16)	0.4 (143)	1.1 (443)	1.5 (603)	0.4 (144)	0.0 (17)	0.0 (0)	0.4 (143)	1.1 (444)	1.5 (604)
JUN	0.1 (51)	0.0 (4)	0.3 (120)	1.1 (448)	1.4 (573)	0.1 (51)	0.0 (3)	0.0 (0)	0.3 (120)	1.1 (449)	1.4 (572)
JUL	0.0 (12)	0.0 (1)	0.3 (110)	0.9 (364)	1.2 (475)	0.0 (12)	0.0 (0)	0.0 (0)	0.3 (110)	0.9 (364)	1.2 (474)
AUG	0.1 (42)	0.0 (6)	0.2 (98)	0.6 (257)	0.9 (361)	0.1 (42)	0.0 (5)	0.0 (0)	0.2 (98)	0.6 (257)	0.9 (361)
SEP	0.3 (128)	0.0 (20)	0.2 (86)	0.4 (166)	0.7 (272)	0.3 (128)	0.0 (18)	0.0 (0)	0.2 (86)	0.4 (167)	0.7 (271)
Total	14.9 (6108)	3.4 (1378)	3.2 (1302)	8.5 (3477)	15.1 (6157)	14.9 (6108)	3.0 (1232)	0.4 (161)	3.2 (1302)	8.5 (3485)	15.1 (6180)

Dry Period

	Current Conditions without the Multi-Purpose Basin					Current Conditions with the Multi-Purpose Basin					
	INFLOW	OUTFLOW				INFLOW	OUTFLOW				
	Precipitation	Runoff to Gobernadora Crk	Total GW Flows	ET	Total	Precipitation	Withdrawal from Modulation Basin	Discharge to Gobernadora (bypass)	GW Flows	ET	Total
OCT	0.3 (121)	0.0 (14)	0.1 (56)	0.4 (150)	0.5 (220)	0.3 (121)	0.0 (12)	0.0 (0)	0.1 (56)	0.4 (150)	0.5 (219)
NOV	1.6 (674)	0.3 (129)	0.1 (50)	0.5 (195)	0.9 (374)	1.6 (674)	0.3 (122)	0.0 (0)	0.1 (50)	0.5 (196)	0.9 (368)
DEC	2.1 (874)	0.4 (181)	0.1 (50)	0.5 (194)	1.0 (425)	2.1 (874)	0.4 (172)	0.0 (3)	0.1 (50)	0.5 (195)	1.0 (419)
JAN	2.5 (1030)	0.5 (218)	0.1 (51)	0.5 (206)	1.2 (476)	2.5 (1030)	0.5 (207)	0.0 (8)	0.1 (51)	0.5 (207)	1.2 (474)
FEB	2.2 (898)	0.5 (193)	0.1 (52)	0.6 (247)	1.2 (493)	2.2 (898)	0.4 (165)	0.0 (17)	0.1 (52)	0.6 (248)	1.2 (483)
MAR	1.7 (710)	0.3 (120)	0.2 (76)	0.9 (363)	1.4 (558)	1.7 (710)	0.3 (117)	0.0 (0)	0.2 (76)	0.9 (364)	1.4 (557)
APR	1.1 (448)	0.2 (74)	0.2 (80)	1.1 (438)	1.4 (592)	1.1 (448)	0.2 (69)	0.0 (0)	0.2 (80)	1.1 (439)	1.4 (587)
MAY	0.3 (143)	0.0 (14)	0.2 (72)	1.2 (474)	1.4 (559)	0.3 (143)	0.0 (12)	0.0 (0)	0.2 (72)	1.2 (474)	1.4 (558)
JUN	0.1 (37)	0.0 (2)	0.2 (62)	1.2 (483)	1.3 (547)	0.1 (37)	0.0 (1)	0.0 (0)	0.2 (62)	1.2 (483)	1.3 (546)
JUL	0.0 (15)	0.0 (1)	0.1 (58)	1.0 (412)	1.2 (471)	0.0 (15)	0.0 (1)	0.0 (0)	0.1 (58)	1.0 (412)	1.2 (471)
AUG	0.1 (47)	0.0 (7)	0.1 (53)	0.7 (278)	0.8 (338)	0.1 (47)	0.0 (6)	0.0 (0)	0.1 (53)	0.7 (278)	0.8 (338)
SEP	0.3 (122)	0.0 (19)	0.1 (48)	0.4 (175)	0.6 (242)	0.3 (122)	0.0 (17)	0.0 (0)	0.1 (48)	0.4 (176)	0.6 (241)
Total	12.5 (5119)	2.4 (972)	1.7 (708)	8.8 (3615)	12.9 (5295)	12.5 (5119)	2.2 (901)	0.1 (28)	1.7 (708)	8.9 (3622)	12.9 (5259)

Wet Period

	Current Conditions without the Multi-Purpose Basin					Current Conditions with the Multi-Purpose Basin					
	INFLOW	OUTFLOW				INFLOW	OUTFLOW				
	Precipitation	Runoff to Gobernadora Crk	Total GW Flows	ET	Total	Precipitation	Withdrawal from Modulation Basin	Discharge to Gobernadora (bypass)	GW Flows	ET	Total
OCT	0.3 (120)	0.0 (15)	0.3 (137)	0.3 (116)	0.7 (268)	0.3 (120)	0.0 (13)	0.0 (0)	0.3 (137)	0.3 (116)	0.7 (266)
NOV	1.3 (520)	0.2 (96)	0.3 (120)	0.4 (156)	0.9 (372)	1.3 (520)	0.2 (84)	0.0 (0)	0.3 (120)	0.4 (156)	0.9 (359)
DEC	1.8 (720)	0.4 (144)	0.3 (115)	0.4 (176)	1.1 (436)	1.8 (720)	0.4 (147)	0.0 (0)	0.3 (115)	0.4 (176)	1.1 (439)
JAN	5.2 (2135)	1.3 (518)	0.4 (157)	0.6 (240)	2.2 (915)	5.2 (2135)	1.1 (465)	0.1 (26)	0.4 (157)	0.6 (240)	2.2 (889)
FEB	5.1 (2092)	2.1 (846)	0.6 (238)	0.8 (331)	3.5 (1415)	5.1 (2092)	1.4 (567)	0.9 (357)	0.6 (238)	0.8 (331)	3.6 (1493)
MAR	4.4 (1813)	1.2 (503)	0.8 (343)	1.0 (409)	3.1 (1255)	4.4 (1813)	1.3 (535)	0.1 (59)	0.8 (343)	1.0 (409)	3.3 (1346)
APR	1.0 (398)	0.1 (60)	0.8 (332)	0.9 (378)	1.9 (770)	1.0 (398)	0.2 (65)	0.0 (0)	0.8 (332)	0.9 (378)	1.9 (775)
MAY	0.4 (147)	0.0 (20)	0.7 (295)	0.9 (379)	1.7 (695)	0.4 (147)	0.1 (27)	0.0 (0)	0.7 (295)	0.9 (379)	1.7 (701)
JUN	0.2 (82)	0.0 (9)	0.6 (244)	0.9 (376)	1.5 (629)	0.2 (82)	0.0 (8)	0.0 (0)	0.6 (244)	0.9 (376)	1.5 (628)
JUL	0.0 (4)	0.0 (0)	0.5 (220)	0.6 (263)	1.2 (482)	0.0 (4)	0.0 (0)	0.0 (0)	0.5 (220)	0.6 (263)	1.2 (482)
AUG	0.1 (31)	0.0 (4)	0.5 (194)	0.5 (212)	1.0 (410)	0.1 (31)	0.0 (3)	0.0 (0)	0.5 (194)	0.5 (212)	1.0 (409)
SEP	0.3 (142)	0.1 (22)	0.4 (167)	0.4 (148)	0.8 (336)	0.3 (142)	0.0 (19)	0.0 (0)	0.4 (167)	0.4 (148)	0.8 (334)
Total	20.1 (8203)	5.5 (2237)	6.3 (2561)	7.8 (3185)	19.5 (7983)	20.1 (8203)	4.7 (1933)	1.1 (443)	6.3 (2561)	7.8 (3185)	19.9 (8122)

Notes:

(1) This only includes Coto de Caza and Wagon Wheel, which are existing developments within the Cañada Gobernadora Sub-basin. The purpose of these tables is to show the predicted effects of the proposed multi-purpose basin located at the down gradient end of the existing development.

Central San Juan (Alternative B-4) - Total Sub-basin¹

Pre-dev area = 4810 acres

Post-dev area = 4916 acres

All Years

	Pre-Development								Post-Development with PDFs							
	INFLOW			OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW Outflow	ET	Total	
OCT	0.3 (124)	0.0 (19)	0.4 (143)	0.0 (1)	0.0 (3)	0.2 (83)	0.3 (130)	0.5 (217)	0.3 (128)	0.4 (158)	0.7 (286)	0.0 (4)	0.3 (130)	0.6 (240)	0.9 (373)	
NOV	1.6 (643)	0.0 (9)	1.6 (652)	0.2 (8)	0.1 (29)	0.2 (80)	0.5 (191)	0.8 (307)	1.6 (663)	0.2 (67)	1.8 (730)	0.1 (40)	0.6 (226)	0.5 (221)	1.2 (487)	
DEC	2.1 (850)	0.0 (6)	2.1 (856)	0.3 (10)	0.2 (59)	0.4 (146)	0.5 (216)	1.1 (431)	2.1 (876)	0.1 (49)	2.3 (925)	0.2 (69)	0.9 (353)	0.5 (208)	1.5 (630)	
JAN	3.6 (1429)	0.0 (5)	3.6 (1435)	0.5 (18)	0.4 (149)	0.8 (317)	0.6 (245)	1.8 (730)	3.6 (1472)	0.1 (41)	3.7 (1513)	0.4 (160)	1.5 (599)	0.6 (226)	2.4 (985)	
FEB	3.3 (1321)	0.0 (4)	3.3 (1325)	0.6 (21)	0.5 (190)	1.2 (469)	0.8 (315)	2.5 (995)	3.3 (1360)	0.1 (31)	3.4 (1391)	0.5 (186)	1.7 (694)	0.7 (277)	2.8 (1157)	
MAR	2.7 (1097)	0.0 (17)	2.8 (1114)	0.4 (13)	0.4 (131)	1.5 (610)	1.1 (445)	3.0 (1199)	2.8 (1130)	0.3 (123)	3.1 (1253)	0.3 (124)	2.0 (801)	1.0 (409)	3.3 (1334)	
APR	1.1 (446)	0.1 (33)	1.2 (479)	0.1 (5)	0.1 (34)	1.0 (418)	1.3 (515)	2.4 (972)	1.1 (459)	0.6 (234)	1.7 (693)	0.1 (28)	1.2 (508)	1.2 (485)	2.5 (1021)	
MAY	0.4 (149)	0.1 (42)	0.5 (191)	0.0 (2)	0.0 (7)	0.7 (273)	1.1 (458)	1.8 (740)	0.4 (153)	0.7 (303)	1.1 (456)	0.0 (7)	0.8 (318)	1.2 (481)	2.0 (806)	
JUN	0.1 (53)	0.1 (49)	0.3 (102)	0.0 (1)	0.0 (1)	0.5 (185)	0.6 (258)	1.1 (444)	0.1 (54)	0.9 (362)	1.0 (417)	0.0 (1)	0.5 (214)	1.0 (411)	1.5 (626)	
JUL	0.0 (12)	0.1 (50)	0.2 (62)	0.0 (0)	0.0 (0)	0.4 (146)	0.3 (110)	0.6 (257)	0.0 (13)	0.9 (372)	0.9 (385)	0.0 (0)	0.4 (171)	0.9 (359)	1.3 (530)	
AUG	0.1 (43)	0.1 (45)	0.2 (88)	0.0 (0)	0.0 (1)	0.3 (118)	0.2 (89)	0.5 (209)	0.1 (44)	0.8 (347)	1.0 (391)	0.0 (2)	0.4 (149)	0.8 (336)	1.2 (487)	
SEP	0.3 (132)	0.1 (32)	0.4 (165)	0.0 (2)	0.0 (4)	0.2 (95)	0.3 (111)	0.5 (212)	0.3 (136)	0.6 (252)	0.9 (388)	0.0 (6)	0.3 (142)	0.7 (288)	1.1 (435)	
Total	15.7 (6299)	0.8 (312)	16.5 (6612)	2.3 (81)	1.7 (608)	7.3 (2941)	7.7 (3082)	16.7 (6713)	15.8 (6489)	5.7 (2338)	21.5 (8827)	1.5 (628)	10.5 (4304)	9.6 (3940)	21.7 (8872)	

Dry Period

	Pre-Development								Post-Development with PDFs							
	INFLOW			OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW Outflow	ET	Total	
OCT	0.3 (124)	0.0 (19)	0.4 (144)	0.0 (1)	0.0 (3)	0.2 (72)	0.3 (140)	0.5 (217)	0.3 (128)	0.4 (158)	0.7 (286)	0.0 (4)	0.3 (121)	0.6 (245)	0.9 (370)	
NOV	1.7 (694)	0.0 (8)	1.8 (702)	0.2 (8)	0.1 (31)	0.2 (73)	0.5 (201)	0.8 (314)	1.7 (715)	0.2 (66)	1.9 (782)	0.1 (44)	0.6 (232)	0.6 (226)	1.2 (501)	
DEC	2.2 (901)	0.0 (6)	2.3 (907)	0.3 (11)	0.2 (63)	0.3 (139)	0.6 (224)	1.1 (437)	2.3 (928)	0.1 (49)	2.4 (977)	0.2 (75)	0.9 (358)	0.5 (212)	1.6 (645)	
JAN	2.7 (1063)	0.0 (5)	2.7 (1069)	0.4 (13)	0.2 (87)	0.6 (226)	0.6 (243)	1.4 (569)	2.7 (1096)	0.1 (41)	2.8 (1136)	0.2 (100)	1.1 (471)	0.5 (222)	1.9 (793)	
FEB	2.3 (925)	0.0 (4)	2.3 (930)	0.4 (13)	0.3 (98)	0.8 (310)	0.8 (309)	1.8 (730)	2.3 (954)	0.1 (31)	2.4 (985)	0.2 (94)	1.2 (501)	0.7 (270)	2.1 (865)	
MAR	1.8 (732)	0.0 (18)	1.9 (749)	0.2 (9)	0.2 (63)	0.9 (373)	1.1 (441)	2.2 (886)	1.8 (754)	0.3 (124)	2.1 (878)	0.1 (52)	1.3 (533)	1.0 (404)	2.4 (990)	
APR	1.2 (462)	0.1 (33)	1.2 (495)	0.2 (5)	0.1 (33)	0.7 (290)	1.3 (518)	2.1 (847)	1.2 (476)	0.6 (233)	1.7 (709)	0.1 (29)	1.0 (397)	1.2 (486)	2.2 (911)	
MAY	0.4 (147)	0.1 (42)	0.5 (189)	0.0 (2)	0.0 (5)	0.5 (199)	1.2 (475)	1.7 (681)	0.4 (152)	0.7 (301)	1.1 (453)	0.0 (5)	0.6 (252)	1.2 (490)	1.8 (747)	
JUN	0.1 (38)	0.1 (49)	0.2 (87)	0.0 (0)	0.0 (1)	0.4 (140)	0.7 (263)	1.0 (405)	0.1 (39)	0.9 (362)	1.0 (401)	0.0 (1)	0.4 (173)	1.0 (412)	1.4 (586)	
JUL	0.0 (16)	0.1 (50)	0.2 (65)	0.0 (0)	0.0 (0)	0.3 (114)	0.3 (117)	0.6 (231)	0.0 (16)	0.9 (372)	0.9 (388)	0.0 (0)	0.3 (143)	0.9 (362)	1.2 (506)	
AUG	0.1 (48)	0.1 (45)	0.2 (94)	0.0 (1)	0.0 (2)	0.2 (94)	0.2 (91)	0.5 (187)	0.1 (50)	0.8 (347)	1.0 (397)	0.0 (2)	0.3 (130)	0.8 (337)	1.1 (470)	
SEP	0.3 (126)	0.1 (32)	0.4 (158)	0.0 (1)	0.0 (4)	0.2 (78)	0.3 (113)	0.5 (196)	0.3 (129)	0.6 (252)	0.9 (382)	0.0 (6)	0.3 (127)	0.7 (289)	1.0 (422)	
Total	13.2 (5277)	0.8 (312)	13.9 (5589)	1.8 (64)	1.1 (391)	5.3 (2109)	7.8 (3136)	14.2 (5700)	13.3 (5437)	5.7 (2336)	19.0 (7773)	1.0 (412)	8.4 (3437)	9.7 (3956)	19.0 (7804)	

Wet Period

	Pre-Development								Post-Development with PDFs							
	INFLOW			OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW Outflow	ET	Total	
OCT	0.3 (124)	0.0 (19)	0.4 (143)	0.0 (1)	0.0 (3)	0.3 (107)	0.3 (108)	0.5 (219)	0.3 (127)	0.4 (159)	0.7 (286)	0.0 (4)	0.4 (148)	0.6 (229)	0.9 (381)	
NOV	1.3 (536)	0.0 (9)	1.4 (545)	0.2 (6)	0.1 (24)	0.2 (95)	0.4 (169)	0.7 (293)	1.3 (552)	0.2 (68)	1.5 (620)	0.1 (33)	0.5 (215)	0.5 (211)	1.1 (458)	
DEC	1.9 (742)	0.0 (6)	1.9 (748)	0.3 (9)	0.1 (51)	0.4 (161)	0.5 (199)	1.0 (419)	1.9 (764)	0.1 (50)	2.0 (814)	0.1 (58)	0.8 (342)	0.5 (199)	1.5 (599)	
JAN	5.5 (2204)	0.0 (5)	5.5 (2210)	0.9 (30)	0.8 (279)	1.3 (510)	0.6 (250)	2.7 (1070)	5.5 (2270)	0.1 (41)	5.6 (2310)	0.7 (286)	2.1 (871)	0.6 (234)	3.4 (1391)	
FEB	5.4 (2157)	0.0 (4)	5.4 (2162)	1.1 (38)	1.1 (385)	2.0 (807)	0.8 (327)	3.9 (1557)	5.4 (2222)	0.1 (31)	5.5 (2252)	0.9 (382)	2.7 (1103)	0.7 (289)	4.3 (1774)	
MAR	4.7 (1870)	0.0 (17)	4.7 (1887)	0.6 (22)	0.8 (275)	2.8 (1110)	1.1 (453)	4.6 (1861)	4.7 (1926)	0.3 (121)	5.0 (2046)	0.7 (277)	3.3 (1368)	1.0 (420)	5.0 (2065)	
APR	1.0 (411)	0.1 (33)	1.1 (445)	0.1 (5)	0.1 (34)	1.7 (687)	1.3 (510)	3.1 (1235)	1.0 (423)	0.6 (237)	1.6 (660)	0.1 (28)	1.8 (743)	1.2 (483)	3.1 (1254)	
MAY	0.4 (152)	0.1 (42)	0.5 (194)	0.0 (2)	0.0 (11)	1.1 (431)	1.1 (423)	2.2 (867)	0.4 (156)	0.7 (305)	1.1 (461)	0.0 (11)	1.1 (458)	1.1 (462)	2.3 (931)	
JUN	0.2 (84)	0.1 (49)	0.3 (134)	0.0 (1)	0.0 (2)	0.7 (279)	0.6 (246)	1.3 (527)	0.2 (87)	0.9 (363)	1.1 (450)	0.0 (3)	0.7 (300)	1.0 (409)	1.7 (712)	
JUL	0.0 (5)	0.1 (50)	0.1 (54)	0.0 (0)	0.0 (0)	0.5 (214)	0.2 (97)	0.8 (311)	0.0 (5)	0.9 (373)	0.9 (377)	0.0 (0)	0.6 (229)	0.9 (353)	1.4 (582)	
AUG	0.1 (32)	0.1 (45)	0.2 (77)	0.0 (0)	0.0 (1)	0.4 (168)	0.2 (84)	0.6 (253)	0.1 (33)	0.8 (347)	0.9 (380)	0.0 (1)	0.5 (190)	0.8 (333)	1.3 (524)	
SEP	0.4 (147)	0.1 (32)	0.4 (179)	0.0 (2)	0.0 (4)	0.3 (133)	0.3 (107)	0.6 (245)	0.4 (151)	0.6 (251)	1.0 (402)	0.0 (6)	0.4 (173)	0.7 (285)	1.1 (464)	
Total	21.1 (8465)	0.8 (313)	21.9 (8778)	3.3 (116)	2.9 (1068)	11.7 (4703)	7.4 (2969)	22.1 (8858)	21.3 (8716)	5.7 (2344)	27.0 (11059)	2.7 (1086)	15.0 (6140)	9.5 (3908)	27.2 (11134)	

Notes:

(1) This includes the catchments within the Central San Juan Sub-basin. Due to the grading plans of PA3, PA4, and PA5, the total tributary area increases from pre to post development conditions.

Central San Juan (Alternative B-4) – Trampas Creek¹

Pre-dev area = 650 acres (excludes quarry)

Post-dev area = 1013 acres

All Years

	Pre-Development ²								Post-Development with PDFs ³						
	INFLOW			OUTFLOW					INFLOW			OUTFLOW			
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW Outflow	ET	Total
OCT	0.3 (17)	0.0 (0)	0.3 (17)	0.0 (0)	0.0 (0)	0.2 (9)	0.3 (18)	0.5 (27)	0.3 (27)	0.5 (44)	0.8 (71)	0.0 (0)	0.3 (29)	0.7 (60)	1.1 (90)
NOV	1.7 (90)	0.0 (0)	1.7 (90)	0.0 (0)	0.0 (0)	0.1 (8)	0.6 (31)	0.7 (39)	1.7 (140)	0.2 (19)	1.9 (158)	0.0 (1)	0.7 (62)	0.6 (50)	1.3 (113)
DEC	2.2 (119)	0.0 (0)	2.2 (119)	0.0 (0)	0.0 (0)	0.3 (15)	0.7 (36)	0.9 (51)	2.2 (184)	0.2 (14)	2.3 (198)	0.0 (1)	1.2 (97)	0.5 (43)	1.7 (142)
JAN	3.7 (200)	0.0 (0)	3.7 (200)	0.0 (0)	0.0 (2)	0.7 (39)	0.8 (41)	1.5 (83)	3.7 (310)	0.1 (11)	3.8 (321)	0.0 (3)	2.0 (166)	0.5 (46)	2.5 (215)
FEB	3.4 (185)	0.0 (0)	3.4 (185)	0.0 (0)	0.2 (8)	1.2 (66)	1.0 (52)	2.3 (127)	3.4 (286)	0.1 (9)	3.5 (295)	0.1 (6)	2.2 (184)	0.7 (55)	2.9 (245)
MAR	2.8 (154)	0.0 (0)	2.8 (154)	0.0 (0)	0.0 (1)	1.7 (89)	1.5 (80)	3.1 (170)	2.8 (238)	0.4 (34)	3.2 (272)	0.0 (2)	2.4 (204)	1.0 (83)	3.4 (290)
APR	1.2 (63)	0.0 (0)	1.2 (63)	0.0 (0)	0.0 (0)	1.1 (59)	1.9 (102)	3.0 (161)	1.1 (97)	0.8 (65)	1.9 (162)	0.0 (0)	1.4 (120)	1.3 (106)	2.7 (227)
MAY	0.4 (21)	0.0 (0)	0.4 (21)	0.0 (0)	0.0 (0)	0.7 (37)	1.5 (80)	2.2 (117)	0.4 (32)	1.0 (84)	1.4 (116)	0.0 (0)	0.9 (73)	1.3 (109)	2.2 (182)
JUN	0.1 (7)	0.0 (0)	0.1 (7)	0.0 (0)	0.0 (0)	0.4 (24)	0.4 (22)	0.9 (46)	0.1 (11)	1.2 (100)	1.3 (112)	0.0 (0)	0.6 (47)	1.2 (100)	1.7 (147)
JUL	0.0 (2)	0.0 (0)	0.0 (2)	0.0 (0)	0.0 (0)	0.3 (18)	0.0 (2)	0.4 (20)	0.0 (3)	1.2 (103)	1.3 (106)	0.0 (0)	0.4 (37)	1.1 (94)	1.6 (131)
AUG	0.1 (6)	0.0 (0)	0.1 (6)	0.0 (0)	0.0 (0)	0.3 (14)	0.1 (5)	0.4 (19)	0.1 (9)	1.1 (96)	1.3 (106)	0.0 (0)	0.4 (32)	1.1 (90)	1.5 (123)
SEP	0.3 (19)	0.0 (0)	0.3 (19)	0.0 (0)	0.0 (0)	0.2 (11)	0.2 (13)	0.4 (24)	0.3 (29)	0.8 (70)	1.2 (99)	0.0 (0)	0.4 (32)	0.9 (76)	1.3 (108)
Total	16.3 (883)	0.0 (0)	16.3 (883)	0.0 (0)	0.2 (12)	7.2 (391)	8.9 (480)	16.3 (883)	16.2 (1366)	7.7 (649)	23.9 (2015)	0.2 (14)	12.8 (1085)	10.8 (912)	23.8 (2010)

Dry Period

	Pre-Development ²								Post-Development with PDFs ³						
	INFLOW			OUTFLOW					INFLOW			OUTFLOW			
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW Outflow	ET	Total
OCT	0.3 (17)	0.0 (0)	0.3 (17)	0.0 (0)	0.0 (0)	0.1 (8)	0.4 (20)	0.5 (28)	0.3 (27)	0.5 (44)	0.8 (71)	0.0 (0)	0.3 (28)	0.7 (61)	1.1 (89)
NOV	1.8 (97)	0.0 (0)	1.8 (97)	0.0 (0)	0.0 (0)	0.1 (7)	0.6 (32)	0.7 (39)	1.8 (150)	0.2 (18)	2.0 (169)	0.0 (0)	0.8 (66)	0.6 (50)	1.4 (116)
DEC	2.3 (126)	0.0 (0)	2.3 (126)	0.0 (0)	0.0 (0)	0.3 (14)	0.7 (37)	0.9 (51)	2.3 (195)	0.2 (14)	2.5 (209)	0.0 (1)	1.2 (100)	0.5 (43)	1.7 (145)
JAN	2.8 (149)	0.0 (0)	2.8 (149)	0.0 (0)	0.0 (0)	0.5 (24)	0.8 (41)	1.2 (66)	2.7 (231)	0.1 (11)	2.9 (242)	0.0 (2)	1.5 (129)	0.5 (45)	2.1 (176)
FEB	2.4 (130)	0.0 (0)	2.4 (130)	0.0 (0)	0.1 (3)	0.7 (39)	1.0 (53)	1.7 (94)	2.4 (201)	0.1 (9)	2.5 (209)	0.0 (2)	1.5 (130)	0.6 (54)	2.2 (187)
MAR	1.9 (103)	0.0 (0)	1.9 (103)	0.0 (0)	0.0 (0)	0.9 (49)	1.5 (80)	2.4 (129)	1.9 (159)	0.4 (34)	2.3 (193)	0.0 (1)	1.6 (132)	1.0 (83)	2.6 (216)
APR	1.2 (65)	0.0 (0)	1.2 (65)	0.0 (0)	0.0 (0)	0.7 (37)	1.9 (100)	2.5 (137)	1.2 (100)	0.8 (65)	2.0 (165)	0.0 (0)	1.1 (96)	1.2 (105)	2.4 (201)
MAY	0.4 (21)	0.0 (0)	0.4 (21)	0.0 (0)	0.0 (0)	0.4 (24)	1.6 (85)	2.0 (109)	0.4 (32)	1.0 (84)	1.4 (116)	0.0 (0)	0.7 (58)	1.3 (110)	2.0 (168)
JUN	0.1 (5)	0.0 (0)	0.1 (5)	0.0 (0)	0.0 (0)	0.3 (17)	0.4 (22)	0.7 (39)	0.1 (8)	1.2 (100)	1.3 (109)	0.0 (0)	0.5 (38)	1.2 (100)	1.6 (139)
JUL	0.0 (2)	0.0 (0)	0.0 (2)	0.0 (0)	0.0 (0)	0.2 (13)	0.0 (2)	0.3 (15)	0.0 (3)	1.2 (103)	1.3 (107)	0.0 (0)	0.4 (31)	1.1 (94)	1.5 (126)
AUG	0.1 (7)	0.0 (0)	0.1 (7)	0.0 (0)	0.0 (0)	0.2 (11)	0.1 (5)	0.3 (16)	0.1 (10)	1.1 (96)	1.3 (107)	0.0 (0)	0.3 (29)	1.1 (90)	1.4 (120)
SEP	0.3 (18)	0.0 (0)	0.3 (18)	0.0 (0)	0.0 (0)	0.2 (8)	0.2 (13)	0.4 (22)	0.3 (27)	0.8 (70)	1.2 (97)	0.0 (0)	0.4 (30)	0.9 (76)	1.3 (106)
Total	13.7 (740)	0.0 (0)	13.7 (740)	0.0 (0)	0.1 (4)	4.6 (251)	9.1 (491)	13.8 (745)	13.6 (1145)	7.7 (648)	21.2 (1792)	0.1 (8)	10.3 (867)	10.8 (912)	21.2 (1787)

Wet Period

	Pre-Development ²								Post-Development with PDFs ³						
	INFLOW			OUTFLOW					INFLOW			OUTFLOW			
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW Outflow	ET	Total
OCT	0.3 (17)	0.0 (0)	0.3 (17)	0.0 (0)	0.0 (0)	0.2 (12)	0.2 (13)	0.5 (25)	0.3 (27)	0.5 (44)	0.8 (71)	0.0 (0)	0.4 (32)	0.7 (59)	1.1 (91)
NOV	1.4 (75)	0.0 (0)	1.4 (75)	0.0 (0)	0.0 (0)	0.2 (10)	0.5 (27)	0.7 (37)	1.4 (116)	0.2 (19)	1.6 (135)	0.0 (1)	0.7 (56)	0.6 (49)	1.2 (105)
DEC	1.9 (104)	0.0 (0)	1.9 (104)	0.0 (0)	0.0 (0)	0.3 (17)	0.6 (33)	0.9 (51)	1.9 (161)	0.2 (14)	2.1 (175)	0.0 (1)	1.1 (91)	0.5 (43)	1.6 (134)
JAN	5.7 (309)	0.0 (0)	5.7 (309)	0.0 (0)	0.1 (7)	1.3 (71)	0.7 (40)	2.2 (118)	5.7 (478)	0.1 (11)	5.8 (489)	0.1 (6)	2.9 (244)	0.6 (47)	3.5 (297)
FEB	5.6 (302)	0.0 (0)	5.6 (302)	0.0 (0)	0.4 (20)	2.3 (124)	1.0 (52)	3.6 (196)	5.5 (468)	0.1 (9)	5.6 (476)	0.1 (12)	3.5 (300)	0.7 (56)	4.4 (368)
MAR	4.8 (262)	0.0 (0)	4.8 (262)	0.0 (0)	0.0 (2)	3.2 (175)	1.5 (79)	4.7 (256)	4.8 (405)	0.4 (33)	5.2 (439)	0.1 (5)	4.2 (357)	1.0 (84)	5.3 (446)
APR	1.1 (58)	0.0 (0)	1.1 (58)	0.0 (0)	0.0 (0)	2.0 (106)	2.0 (106)	3.9 (212)	1.1 (89)	0.8 (66)	1.8 (155)	0.0 (1)	2.0 (173)	1.3 (108)	3.3 (282)
MAY	0.4 (21)	0.0 (0)	0.4 (21)	0.0 (0)	0.0 (0)	1.2 (64)	1.3 (69)	2.4 (132)	0.4 (33)	1.0 (85)	1.4 (118)	0.0 (1)	1.2 (104)	1.3 (107)	2.5 (211)
JUN	0.2 (12)	0.0 (0)	0.2 (12)	0.0 (0)	0.0 (0)	0.7 (40)	0.4 (22)	1.1 (62)	0.2 (18)	1.2 (101)	1.4 (119)	0.0 (0)	0.8 (66)	1.2 (99)	2.0 (165)
JUL	0.0 (1)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.5 (29)	0.0 (1)	0.6 (30)	0.0 (1)	1.2 (103)	1.2 (104)	0.0 (0)	0.6 (48)	1.1 (94)	1.7 (142)
AUG	0.1 (4)	0.0 (0)	0.1 (4)	0.0 (0)	0.0 (0)	0.4 (22)	0.1 (4)	0.5 (26)	0.1 (7)	1.1 (96)	1.2 (103)	0.0 (0)	0.5 (39)	1.1 (90)	1.5 (129)
SEP	0.4 (21)	0.0 (0)	0.4 (21)	0.0 (0)	0.0 (0)	0.3 (16)	0.2 (13)	0.5 (29)	0.4 (32)	0.8 (70)	1.2 (101)	0.0 (0)	0.4 (37)	0.9 (76)	1.3 (113)
Total	21.9 (1187)	0.0 (0)	21.9 (1187)	0.0 (0)	0.5 (29)	12.7 (687)	8.5 (459)	21.7 (1174)	21.7 (1835)	7.7 (650)	29.4 (2486)	0.3 (26)	18.3 (1546)	10.8 (911)	29.4 (2483)

Notes:

- (1) This includes the catchments located south of San Juan Creek that drain to Trampas Creek. The existing quarry was excluded for pre-development conditions because runoff from these areas drains to a terminal pond. After the construction of PA5, areas once draining to the terminal pond will be diverted to Trampas Creek. Because of this, the area tributary to Trampas Creek significantly increases from pre to post-development conditions.
- (2) The pre-development catchments include Catchments 22 and the portions of Catchments 23 and 25 that drain to Trampas Creek.
- (3) The post-development catchments include Catchments PA5-3, PA5-4, 25a, and 25b.

Central San Juan (Alternative B-4) – Trampas Creek: Pre-Quarry Conditions¹

Pre-dev area = 1059 acres

Post-dev area = 1013 acres

All Years

	Pre-Development ²					Post-Development with PDFs ³						
	INFLOW	OUTFLOW				INFLOW			OUTFLOW			
	Precipitation	Runoff to SJ Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW Outflow	ET	Total
OCT	0.3 (29)	0.0 (0)	0.2 (15)	0.3 (28)	0.5 (43)	0.3 (27)	0.5 (44)	0.8 (71)	0.0 (0)	0.3 (29)	0.7 (60)	1.1 (90)
NOV	1.7 (150)	0.0 (0)	0.1 (13)	0.5 (48)	0.7 (62)	1.7 (140)	0.2 (19)	1.9 (158)	0.0 (1)	0.7 (62)	0.6 (50)	1.3 (113)
DEC	2.2 (198)	0.0 (0)	0.3 (25)	0.6 (57)	0.9 (82)	2.2 (184)	0.2 (14)	2.3 (198)	0.0 (1)	1.2 (97)	0.5 (43)	1.7 (142)
JAN	3.7 (333)	0.0 (4)	0.8 (67)	0.7 (64)	1.5 (134)	3.7 (310)	0.1 (11)	3.8 (321)	0.0 (3)	2.0 (166)	0.5 (46)	2.5 (215)
FEB	3.4 (308)	0.2 (14)	1.3 (113)	0.9 (82)	2.3 (208)	3.4 (286)	0.1 (9)	3.5 (295)	0.1 (6)	2.2 (184)	0.7 (55)	2.9 (245)
MAR	2.9 (256)	0.0 (1)	1.7 (152)	1.4 (124)	3.1 (277)	2.8 (238)	0.4 (34)	3.2 (272)	0.0 (2)	2.4 (204)	1.0 (83)	3.4 (290)
APR	1.2 (104)	0.0 (0)	1.1 (101)	1.8 (161)	2.9 (263)	1.1 (97)	0.8 (65)	1.9 (162)	0.0 (0)	1.4 (120)	1.3 (106)	2.7 (227)
MAY	0.4 (35)	0.0 (0)	0.7 (63)	1.6 (140)	2.3 (203)	0.4 (32)	1.0 (84)	1.4 (116)	0.0 (0)	0.9 (73)	1.3 (109)	2.2 (182)
JUN	0.1 (12)	0.0 (0)	0.5 (41)	0.5 (47)	1.0 (88)	0.1 (11)	1.2 (100)	1.3 (112)	0.0 (0)	0.6 (47)	1.2 (100)	1.7 (147)
JUL	0.0 (3)	0.0 (0)	0.3 (31)	0.0 (3)	0.4 (35)	0.0 (3)	1.2 (103)	1.3 (106)	0.0 (0)	0.4 (37)	1.1 (94)	1.6 (131)
AUG	0.1 (10)	0.0 (0)	0.3 (24)	0.1 (8)	0.4 (32)	0.1 (9)	1.1 (96)	1.3 (106)	0.0 (0)	0.4 (32)	1.1 (90)	1.5 (123)
SEP	0.3 (31)	0.0 (0)	0.2 (18)	0.2 (21)	0.4 (39)	0.3 (29)	0.8 (70)	1.2 (99)	0.0 (0)	0.4 (32)	0.9 (76)	1.3 (108)
Total	16.4 (1468)	0.2 (19)	7.4 (664)	8.8 (783)	16.4 (1466)	16.2 (1366)	7.7 (649)	23.9 (2015)	0.2 (14)	12.8 (1085)	10.8 (912)	23.8 (2010)

Dry Period

	Pre-Development ²					Post-Development with PDFs ³						
	INFLOW	OUTFLOW				INFLOW			OUTFLOW			
	Precipitation	Runoff to SJ Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW Outflow	ET	Total
OCT	0.3 (29)	0.0 (0)	0.1 (13)	0.3 (31)	0.5 (44)	0.3 (27)	0.5 (44)	0.8 (71)	0.0 (0)	0.3 (28)	0.7 (61)	1.1 (89)
NOV	1.8 (162)	0.0 (0)	0.1 (12)	0.6 (51)	0.7 (63)	1.8 (150)	0.2 (18)	2.0 (169)	0.0 (0)	0.8 (66)	0.6 (50)	1.4 (116)
DEC	2.4 (210)	0.0 (0)	0.3 (23)	0.7 (59)	0.9 (82)	2.3 (195)	0.2 (14)	2.5 (209)	0.0 (1)	1.2 (100)	0.5 (43)	1.7 (145)
JAN	2.8 (248)	0.0 (0)	0.5 (42)	0.7 (64)	1.2 (106)	2.7 (231)	0.1 (11)	2.9 (242)	0.0 (2)	1.5 (129)	0.5 (45)	2.1 (176)
FEB	2.4 (216)	0.1 (5)	0.7 (67)	0.9 (82)	1.7 (155)	2.4 (201)	0.1 (9)	2.5 (209)	0.0 (2)	1.5 (130)	0.6 (54)	2.2 (187)
MAR	1.9 (170)	0.0 (0)	0.9 (85)	1.4 (124)	2.3 (209)	1.9 (159)	0.4 (34)	2.3 (193)	0.0 (1)	1.6 (132)	1.0 (83)	2.6 (216)
APR	1.2 (108)	0.0 (0)	0.7 (64)	1.8 (158)	2.5 (223)	1.2 (100)	0.8 (65)	2.0 (165)	0.0 (0)	1.1 (96)	1.2 (105)	2.4 (201)
MAY	0.4 (34)	0.0 (0)	0.5 (42)	1.7 (148)	2.1 (190)	0.4 (32)	1.0 (84)	1.4 (116)	0.0 (0)	0.7 (58)	1.3 (110)	2.0 (168)
JUN	0.1 (9)	0.0 (0)	0.3 (29)	0.6 (49)	0.9 (78)	0.1 (8)	1.2 (100)	1.3 (109)	0.0 (0)	0.5 (38)	1.2 (100)	1.6 (139)
JUL	0.0 (4)	0.0 (0)	0.3 (23)	0.0 (4)	0.3 (27)	0.0 (3)	1.2 (103)	1.3 (107)	0.0 (0)	0.4 (31)	1.1 (94)	1.5 (126)
AUG	0.1 (11)	0.0 (0)	0.2 (18)	0.1 (9)	0.3 (27)	0.1 (10)	1.1 (96)	1.3 (107)	0.0 (0)	0.3 (29)	1.1 (90)	1.4 (120)
SEP	0.3 (29)	0.0 (0)	0.2 (14)	0.2 (21)	0.4 (36)	0.3 (27)	0.8 (70)	1.2 (97)	0.0 (0)	0.4 (30)	0.9 (76)	1.3 (106)
Total	13.8 (1230)	0.1 (6)	4.8 (430)	9.0 (800)	13.9 (1237)	13.6 (1145)	7.7 (648)	21.2 (1792)	0.1 (8)	10.3 (867)	10.8 (912)	21.2 (1787)

Wet Period

	Pre-Development ²					Post-Development with PDFs ³						
	INFLOW	OUTFLOW				INFLOW			OUTFLOW			
	Precipitation	Runoff to SJ Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW Outflow	ET	Total
OCT	0.3 (29)	0.0 (0)	0.2 (20)	0.2 (21)	0.5 (41)	0.3 (27)	0.5 (44)	0.8 (71)	0.0 (0)	0.4 (32)	0.7 (59)	1.1 (91)
NOV	1.4 (125)	0.0 (0)	0.2 (16)	0.5 (43)	0.7 (60)	1.4 (116)	0.2 (19)	1.6 (135)	0.0 (1)	0.7 (56)	0.6 (49)	1.2 (105)
DEC	1.9 (173)	0.0 (0)	0.3 (28)	0.6 (53)	0.9 (81)	1.9 (161)	0.2 (14)	2.1 (175)	0.0 (1)	1.1 (91)	0.5 (43)	1.6 (134)
JAN	5.8 (514)	0.1 (11)	1.3 (120)	0.7 (63)	2.2 (194)	5.7 (478)	0.1 (11)	5.8 (489)	0.1 (6)	2.9 (244)	0.6 (47)	3.5 (297)
FEB	5.6 (503)	0.4 (33)	2.4 (210)	0.9 (81)	3.6 (325)	5.5 (468)	0.1 (9)	5.6 (476)	0.1 (12)	3.5 (300)	0.7 (56)	4.4 (368)
MAR	4.9 (436)	0.0 (2)	3.3 (296)	1.4 (123)	4.7 (421)	4.8 (405)	0.4 (33)	5.2 (439)	0.1 (5)	4.2 (357)	1.0 (84)	5.3 (446)
APR	1.1 (96)	0.0 (0)	2.0 (180)	1.9 (167)	3.9 (347)	1.1 (89)	0.8 (66)	1.8 (155)	0.0 (1)	2.0 (173)	1.3 (108)	3.3 (282)
MAY	0.4 (35)	0.0 (0)	1.2 (108)	1.4 (124)	2.6 (232)	0.4 (35)	1.0 (85)	1.4 (118)	0.0 (1)	1.2 (104)	1.3 (107)	2.5 (211)
JUN	0.2 (20)	0.0 (0)	0.8 (67)	0.5 (42)	1.2 (109)	0.2 (18)	1.2 (101)	1.4 (119)	0.0 (0)	0.8 (66)	1.2 (99)	2.0 (165)
JUL	0.0 (1)	0.0 (0)	0.5 (49)	0.0 (1)	0.6 (50)	0.0 (1)	1.2 (103)	1.2 (104)	0.0 (0)	0.6 (48)	1.1 (94)	1.7 (142)
AUG	0.1 (7)	0.0 (0)	0.4 (36)	0.1 (7)	0.5 (44)	0.1 (7)	1.1 (96)	1.2 (103)	0.0 (0)	0.5 (39)	1.1 (90)	1.5 (129)
SEP	0.4 (34)	0.0 (0)	0.3 (27)	0.2 (20)	0.5 (48)	0.4 (32)	0.8 (70)	1.2 (101)	0.0 (0)	0.4 (37)	0.9 (76)	1.3 (113)
Total	22.1 (1973)	0.5 (46)	13.0 (1159)	8.4 (747)	21.9 (1952)	21.7 (1835)	7.7 (650)	29.4 (2486)	0.3 (26)	18.3 (1546)	10.8 (911)	29.4 (2483)

Notes:

- (1) This includes the catchments located south of San Juan Creek that drain to Trampas Creek. The purpose of this table is to show the impacts of the proposed development when compared to pre-quarry conditions. Due to the grading of PA5, the tributary area of Trampas Creek decrease with development.
- (2) The pre-development catchments include Catchments 22, 23 and 25.
- (3) The post-development catchments include Catchments PA5-3, PA5-4, 25a, and 25b.

Central San Juan – Quarry Area¹

Pre-dev area = 421 acres

Post-dev area = 0 acres

All Years

	Pre-Development ²								Post-Development with PDFs ³						
	INFLOW			OUTFLOW					INFLOW			OUTFLOW			
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW Outflow	ET	Total
OCT	0.3 (12)	0.0 (0)	0.3 (12)	0.0 (1)	0.0 (0)	0.2 (6)	0.2 (8)	0.4 (16)							
NOV	1.7 (60)	0.0 (0)	1.7 (60)	0.2 (8)	0.0 (0)	0.2 (6)	0.4 (13)	0.8 (27)							
DEC	2.2 (79)	0.0 (0)	2.2 (79)	0.3 (10)	0.0 (0)	0.4 (12)	0.4 (15)	1.1 (37)							
JAN	3.8 (133)	0.0 (0)	3.8 (133)	0.5 (18)	0.0 (0)	0.8 (30)	0.5 (17)	1.8 (65)							
FEB	3.5 (123)	0.0 (0)	3.5 (123)	0.6 (21)	0.0 (0)	1.3 (46)	0.6 (21)	2.5 (88)							
MAR	2.9 (102)	0.0 (0)	2.9 (102)	0.4 (13)	0.0 (0)	1.7 (61)	0.9 (32)	3.0 (106)							
APR	1.2 (41)	0.0 (0)	1.2 (41)	0.1 (5)	0.0 (0)	1.2 (41)	1.2 (42)	2.5 (88)							
MAY	0.4 (14)	0.0 (0)	0.4 (14)	0.0 (2)	0.0 (0)	0.7 (26)	1.2 (43)	2.0 (71)							
JUN	0.1 (5)	0.0 (0)	0.1 (5)	0.0 (1)	0.0 (0)	0.5 (17)	0.7 (24)	1.2 (41)							
JUL	0.0 (1)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.3 (12)	0.1 (4)	0.5 (17)							
AUG	0.1 (4)	0.0 (0)	0.1 (4)	0.0 (0)	0.0 (0)	0.3 (9)	0.1 (4)	0.4 (13)							
SEP	0.4 (12)	0.0 (0)	0.4 (12)	0.0 (2)	0.0 (0)	0.2 (7)	0.2 (7)	0.4 (15)							
Total	16.7 (585)	0.0 (0)	16.7 (585)	2.3 (81)	0.0 (0)	7.8 (274)	6.5 (229)	16.6 (583)							

Dry Period

	Pre-Development ²								Post-Development with PDFs ³						
	INFLOW			OUTFLOW					INFLOW			OUTFLOW			
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW Outflow	ET	Total
OCT	0.3 (12)	0.0 (0)	0.3 (12)	0.0 (1)	0.0 (0)	0.2 (6)	0.2 (9)	0.4 (16)							
NOV	1.8 (64)	0.0 (0)	1.8 (64)	0.2 (8)	0.0 (0)	0.2 (6)	0.4 (14)	0.8 (28)							
DEC	2.4 (84)	0.0 (0)	2.4 (84)	0.3 (11)	0.0 (0)	0.3 (12)	0.4 (15)	1.1 (38)							
JAN	2.8 (99)	0.0 (0)	2.8 (99)	0.4 (13)	0.0 (0)	0.6 (20)	0.5 (17)	1.4 (50)							
FEB	2.4 (86)	0.0 (0)	2.4 (86)	0.4 (13)	0.0 (0)	0.8 (30)	0.6 (21)	1.8 (63)							
MAR	1.9 (68)	0.0 (0)	1.9 (68)	0.2 (9)	0.0 (0)	1.0 (36)	0.9 (32)	2.2 (77)							
APR	1.2 (43)	0.0 (0)	1.2 (43)	0.2 (5)	0.0 (0)	0.8 (28)	1.2 (41)	2.1 (75)							
MAY	0.4 (14)	0.0 (0)	0.4 (14)	0.0 (2)	0.0 (0)	0.5 (19)	1.2 (44)	1.8 (64)							
JUN	0.1 (4)	0.0 (0)	0.1 (4)	0.0 (0)	0.0 (0)	0.4 (13)	0.7 (26)	1.1 (39)							
JUL	0.0 (1)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.3 (10)	0.1 (5)	0.4 (15)							
AUG	0.1 (4)	0.0 (0)	0.1 (4)	0.0 (1)	0.0 (0)	0.2 (8)	0.1 (4)	0.3 (12)							
SEP	0.3 (12)	0.0 (0)	0.3 (12)	0.0 (1)	0.0 (0)	0.2 (6)	0.2 (7)	0.4 (14)							
Total	14.0 (490)	0.0 (0)	14.0 (490)	1.8 (64)	0.0 (0)	5.5 (193)	6.6 (233)	14.0 (490)							

Wet Period

	Pre-Development ²								Post-Development with PDFs ³						
	INFLOW			OUTFLOW					INFLOW			OUTFLOW			
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW Outflow	ET	Total
OCT	0.3 (12)	0.0 (0)	0.3 (12)	0.0 (1)	0.0 (0)	0.2 (8)	0.2 (7)	0.5 (16)							
NOV	1.4 (50)	0.0 (0)	1.4 (50)	0.2 (6)	0.0 (0)	0.2 (7)	0.3 (12)	0.7 (25)							
DEC	2.0 (69)	0.0 (0)	2.0 (69)	0.3 (9)	0.0 (0)	0.4 (13)	0.4 (14)	1.0 (36)							
JAN	5.8 (205)	0.0 (0)	5.8 (205)	0.9 (30)	0.0 (0)	1.4 (49)	0.5 (17)	2.7 (96)							
FEB	5.7 (200)	0.0 (0)	5.7 (200)	1.1 (38)	0.0 (0)	2.3 (80)	0.6 (21)	4.0 (139)							
MAR	4.9 (173)	0.0 (0)	4.9 (173)	0.6 (22)	0.0 (0)	3.2 (113)	0.9 (32)	4.7 (167)							
APR	1.1 (38)	0.0 (0)	1.1 (38)	0.1 (5)	0.0 (0)	2.0 (69)	1.2 (42)	3.3 (116)							
MAY	0.4 (14)	0.0 (0)	0.4 (14)	0.0 (2)	0.0 (0)	1.2 (41)	1.2 (42)	2.4 (85)							
JUN	0.2 (8)	0.0 (0)	0.2 (8)	0.0 (1)	0.0 (0)	0.7 (25)	0.6 (20)	1.3 (46)							
JUL	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (18)	0.1 (3)	0.6 (20)							
AUG	0.1 (3)	0.0 (0)	0.1 (3)	0.0 (0)	0.0 (0)	0.4 (13)	0.1 (4)	0.5 (17)							
SEP	0.4 (14)	0.0 (0)	0.4 (14)	0.0 (2)	0.0 (0)	0.3 (10)	0.2 (7)	0.5 (18)							
Total	22.4 (786)	0.0 (0)	22.4 (786)	3.3 (116)	0.0 (0)	12.7 (444)	6.3 (220)	22.2 (781)							

Notes:

- (1) This includes the existing sand and gravel quarry located in portions of Catchments 23 and 25. These areas drain to an onsite terminal pond and do not contribute flows to Trampas Creek or San Juan Creek. After the construction of PA5, the quarry pond will be graded over, and flows generated from the area will drain to Trampas Creek. Because of this, there are no flows generated from the quarry for developed conditions.
- (2) The pre-development catchments includes portions of Catchments 23 and 25 that drain to the onsite terminal pond.
- (3) The quarry will be graded over after the construction of PA5. Because of this, no flows are generated from the quarry during the developed conditions.

Central San Juan (Alternative B-4) – South CSJ/PA5¹

Pre-dev area = 597 acres

Post-dev area = 741 acres

All Years

	Pre-Development ²								Post-Development with PDFs ³							
	INFLOW			OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW Outflow	ET	Total	
OCT	0.3 (16)	0.0 (0)	0.3 (16)	0.0 (0)	0.0 (0)	0.2 (12)	0.3 (14)	0.5 (26)	0.3 (20)	0.4 (26)	0.7 (46)	0.0 (1)	0.4 (23)	0.6 (38)	1.0 (61)	
NOV	1.6 (82)	0.0 (0)	1.6 (82)	0.0 (0)	0.1 (3)	0.2 (11)	0.5 (24)	0.7 (37)	1.7 (103)	0.2 (11)	1.8 (114)	0.1 (5)	0.7 (40)	0.6 (34)	1.3 (80)	
DEC	2.2 (108)	0.0 (0)	2.2 (108)	0.0 (0)	0.2 (9)	0.4 (17)	0.6 (28)	1.1 (54)	2.2 (136)	0.1 (8)	2.3 (144)	0.2 (11)	1.0 (59)	0.5 (33)	1.7 (103)	
JAN	3.6 (181)	0.0 (0)	3.6 (181)	0.0 (0)	0.5 (26)	0.7 (37)	0.7 (32)	1.9 (95)	3.7 (228)	0.1 (7)	3.8 (235)	0.5 (29)	1.5 (96)	0.6 (36)	2.6 (161)	
FEB	3.4 (167)	0.0 (0)	3.4 (167)	0.0 (0)	0.6 (32)	1.1 (56)	0.8 (41)	2.6 (128)	3.4 (211)	0.1 (5)	3.5 (216)	0.5 (33)	1.7 (108)	0.7 (42)	3.0 (183)	
MAR	2.8 (139)	0.0 (0)	2.8 (139)	0.0 (0)	0.5 (24)	1.5 (73)	1.1 (55)	3.0 (151)	2.8 (175)	0.3 (21)	3.2 (196)	0.4 (24)	2.0 (123)	1.0 (63)	3.4 (210)	
APR	1.1 (57)	0.0 (0)	1.1 (57)	0.0 (0)	0.1 (5)	1.0 (52)	1.3 (64)	2.4 (121)	1.2 (71)	0.6 (39)	1.8 (110)	0.1 (4)	1.3 (79)	1.2 (73)	2.5 (156)	
MAY	0.4 (19)	0.0 (0)	0.4 (19)	0.0 (0)	0.0 (1)	0.7 (36)	1.1 (54)	1.8 (91)	0.4 (24)	0.8 (51)	1.2 (74)	0.0 (1)	0.8 (50)	1.2 (71)	2.0 (123)	
JUN	0.1 (7)	0.0 (0)	0.1 (7)	0.0 (0)	0.0 (0)	0.5 (25)	0.4 (22)	1.0 (48)	0.1 (8)	1.0 (61)	1.1 (69)	0.0 (0)	0.6 (35)	1.0 (61)	1.6 (96)	
JUL	0.0 (2)	0.0 (0)	0.0 (2)	0.0 (0)	0.0 (0)	0.4 (20)	0.0 (2)	0.5 (23)	0.0 (2)	1.0 (62)	1.0 (64)	0.0 (0)	0.5 (29)	0.9 (55)	1.4 (84)	
AUG	0.1 (5)	0.0 (0)	0.1 (5)	0.0 (0)	0.0 (0)	0.3 (17)	0.1 (4)	0.4 (21)	0.1 (7)	0.9 (58)	1.1 (65)	0.0 (0)	0.4 (26)	0.8 (52)	1.3 (78)	
SEP	0.3 (17)	0.0 (0)	0.3 (17)	0.0 (0)	0.0 (0)	0.3 (14)	0.2 (10)	0.5 (24)	0.3 (21)	0.7 (42)	1.0 (63)	0.0 (1)	0.4 (25)	0.7 (45)	1.2 (71)	
Total	16.1 (798)	0.0 (0)	16.1 (798)	0.0 (0)	2.0 (100)	7.4 (368)	7.0 (350)	16.5 (818)	16.3 (1005)	6.4 (392)	22.6 (1397)	1.8 (109)	11.2 (694)	9.8 (602)	22.8 (1406)	

Dry Period

	Pre-Development ²								Post-Development with PDFs ³							
	INFLOW			OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW Outflow	ET	Total	
OCT	0.3 (16)	0.0 (0)	0.3 (16)	0.0 (0)	0.0 (0)	0.2 (11)	0.3 (16)	0.5 (27)	0.3 (20)	0.4 (26)	0.7 (46)	0.0 (1)	0.4 (22)	0.6 (38)	1.0 (61)	
NOV	1.8 (88)	0.0 (0)	1.8 (88)	0.0 (0)	0.1 (3)	0.2 (10)	0.5 (25)	0.8 (38)	1.8 (111)	0.2 (11)	2.0 (122)	0.1 (6)	0.7 (42)	0.6 (35)	1.3 (83)	
DEC	2.3 (114)	0.0 (0)	2.3 (114)	0.0 (0)	0.2 (9)	0.3 (17)	0.6 (29)	1.1 (55)	2.3 (144)	0.1 (8)	2.5 (152)	0.2 (12)	1.0 (61)	0.5 (33)	1.7 (106)	
JAN	2.7 (135)	0.0 (0)	2.7 (135)	0.0 (0)	0.3 (14)	0.5 (27)	0.6 (32)	1.5 (72)	2.8 (170)	0.1 (7)	2.9 (177)	0.3 (17)	1.2 (77)	0.6 (35)	2.1 (128)	
FEB	2.4 (117)	0.0 (0)	2.4 (117)	0.0 (0)	0.3 (17)	0.8 (38)	0.8 (40)	1.9 (94)	2.4 (148)	0.1 (5)	2.5 (153)	0.3 (16)	1.3 (80)	0.7 (41)	2.2 (137)	
MAR	1.9 (93)	0.0 (0)	1.9 (93)	0.0 (0)	0.2 (12)	0.9 (46)	1.1 (54)	2.3 (112)	1.9 (117)	0.3 (21)	2.2 (138)	0.2 (9)	1.4 (84)	1.0 (62)	2.5 (156)	
APR	1.2 (59)	0.0 (0)	1.2 (59)	0.0 (0)	0.1 (5)	0.7 (37)	1.3 (64)	2.1 (106)	1.2 (74)	0.6 (39)	1.8 (113)	0.1 (5)	1.0 (63)	1.2 (73)	2.3 (141)	
MAY	0.4 (19)	0.0 (0)	0.4 (19)	0.0 (0)	0.0 (0)	0.5 (27)	1.1 (57)	1.7 (84)	0.4 (23)	0.8 (51)	1.2 (74)	0.0 (1)	0.7 (41)	1.2 (73)	1.9 (115)	
JUN	0.1 (5)	0.0 (0)	0.1 (5)	0.0 (0)	0.0 (0)	0.4 (20)	0.5 (23)	0.9 (43)	0.1 (6)	1.0 (61)	1.1 (67)	0.0 (0)	0.5 (29)	1.0 (60)	1.5 (90)	
JUL	0.0 (2)	0.0 (0)	0.0 (2)	0.0 (0)	0.0 (0)	0.3 (17)	0.1 (3)	0.4 (19)	0.0 (3)	1.0 (62)	1.1 (65)	0.0 (0)	0.4 (25)	0.9 (55)	1.3 (81)	
AUG	0.1 (6)	0.0 (0)	0.1 (6)	0.0 (0)	0.0 (0)	0.3 (14)	0.1 (5)	0.4 (19)	0.1 (8)	0.9 (58)	1.1 (66)	0.0 (0)	0.4 (24)	0.8 (52)	1.2 (76)	
SEP	0.3 (16)	0.0 (0)	0.3 (16)	0.0 (0)	0.0 (0)	0.2 (12)	0.2 (10)	0.4 (22)	0.3 (20)	0.7 (42)	1.0 (62)	0.0 (1)	0.4 (23)	0.7 (45)	1.1 (69)	
Total	13.5 (669)	0.0 (0)	13.5 (669)	0.0 (0)	1.2 (61)	5.5 (273)	7.2 (357)	13.9 (691)	13.7 (843)	6.3 (392)	20.0 (1235)	1.1 (66)	9.2 (571)	9.8 (605)	20.1 (1242)	

Wet Period

	Pre-Development ²								Post-Development with PDFs ³							
	INFLOW			OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW Outflow	ET	Total	
OCT	0.3 (16)	0.0 (0)	0.3 (16)	0.0 (0)	0.0 (0)	0.3 (14)	0.2 (11)	0.5 (25)	0.3 (20)	0.4 (27)	0.7 (46)	0.0 (0)	0.4 (25)	0.6 (36)	1.0 (61)	
NOV	1.4 (68)	0.0 (0)	1.4 (68)	0.0 (0)	0.0 (1)	0.2 (12)	0.4 (21)	0.7 (34)	1.4 (85)	0.2 (11)	1.6 (96)	0.1 (4)	0.6 (37)	0.5 (33)	1.2 (74)	
DEC	1.9 (94)	0.0 (0)	1.9 (94)	0.0 (0)	0.2 (8)	0.4 (19)	0.5 (25)	1.1 (53)	1.9 (118)	0.1 (8)	2.0 (126)	0.2 (9)	0.9 (56)	0.5 (31)	1.6 (97)	
JAN	5.6 (279)	0.0 (0)	5.6 (279)	0.0 (0)	1.1 (52)	1.2 (58)	0.7 (33)	2.9 (143)	5.7 (351)	0.1 (7)	5.8 (358)	0.9 (56)	2.2 (136)	0.6 (37)	3.7 (229)	
FEB	5.5 (273)	0.0 (0)	5.5 (273)	0.0 (0)	1.3 (64)	1.9 (94)	0.9 (42)	4.0 (200)	5.6 (344)	0.1 (5)	5.6 (349)	1.1 (69)	2.7 (168)	0.7 (45)	4.6 (281)	
MAR	4.8 (237)	0.0 (0)	4.8 (237)	0.0 (0)	1.0 (50)	2.6 (129)	1.1 (56)	4.7 (235)	4.8 (298)	0.3 (20)	5.2 (318)	0.9 (55)	3.3 (206)	1.0 (65)	5.3 (326)	
APR	1.0 (52)	0.0 (0)	1.0 (52)	0.0 (0)	0.1 (5)	1.7 (83)	1.3 (64)	3.1 (152)	1.1 (65)	0.6 (40)	1.7 (105)	0.1 (4)	1.8 (111)	1.2 (72)	3.0 (187)	
MAY	0.4 (19)	0.0 (0)	0.4 (19)	0.0 (0)	0.0 (2)	1.1 (54)	1.0 (49)	2.1 (105)	0.4 (24)	0.8 (51)	1.2 (75)	0.0 (2)	1.1 (70)	1.1 (69)	2.3 (141)	
JUN	0.2 (11)	0.0 (0)	0.2 (11)	0.0 (0)	0.0 (0)	0.7 (36)	0.4 (20)	1.1 (56)	0.2 (13)	1.0 (61)	1.2 (74)	0.0 (0)	0.8 (47)	1.0 (62)	1.8 (109)	
JUL	0.0 (1)	0.0 (0)	0.0 (1)	0.0 (0)	0.0 (0)	0.6 (28)	0.0 (1)	0.6 (29)	0.0 (1)	1.0 (62)	1.0 (63)	0.0 (0)	0.6 (37)	0.9 (54)	1.5 (91)	
AUG	0.1 (4)	0.0 (0)	0.1 (4)	0.0 (0)	0.0 (0)	0.4 (22)	0.1 (4)	0.5 (26)	0.1 (5)	0.9 (58)	1.0 (63)	0.0 (0)	0.5 (32)	0.8 (51)	1.3 (83)	
SEP	0.4 (19)	0.0 (0)	0.4 (19)	0.0 (0)	0.0 (0)	0.4 (18)	0.2 (9)	0.5 (27)	0.4 (23)	0.7 (42)	1.1 (65)	0.0 (1)	0.5 (29)	0.7 (44)	1.2 (75)	
Total	21.6 (1073)	0.0 (0)	21.6 (1073)	0.0 (0)	3.7 (184)	11.4 (568)	6.7 (335)	21.9 (1087)	21.8 (1347)	6.4 (393)	28.2 (1740)	3.3 (201)	15.5 (955)	9.7 (597)	28.4 (1753)	

Notes:

- (1) This includes all catchments south of San Juan Creek that drain to xx-Creek. Due to the grading plan of PA5, the total tributary area increases from pre to post development conditions.
- (2) The pre-development catchments include Catchments 13, 14, 17, 18 and 19.
- (3) The post-development catchments include Catchments 13, 14, 17, 18a, 18b, 19, 23, PA5-1, and PA5-2.

Central San Juan (Alternative B-4) – North CSJ/PA3¹

Pre-dev area = 1605 acres

Post-dev area = 1693 acres

All Years

	Pre-Development ²								Post-Development with PDEs ³							
	INFLOW			OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW Outflow	ET	Total	
OCT	0.3 (40)	0.1 (18)	0.4 (57)	0.0 (0)	0.0 (2)	0.2 (30)	0.4 (56)	0.6 (87)	0.3 (43)	0.6 (78)	0.9 (121)	0.0 (1)	0.4 (53)	0.7 (102)	1.1 (156)	
NOV	1.5 (205)	0.1 (8)	1.6 (213)	0.0 (0)	0.1 (13)	0.2 (28)	0.5 (69)	0.8 (109)	1.6 (222)	0.2 (33)	1.8 (255)	0.1 (17)	0.7 (97)	0.6 (82)	1.4 (195)	
DEC	2.0 (271)	0.0 (5)	2.1 (276)	0.0 (0)	0.2 (23)	0.3 (46)	0.6 (74)	1.1 (143)	2.1 (294)	0.2 (24)	2.3 (318)	0.2 (27)	1.0 (143)	0.5 (70)	1.7 (240)	
JAN	3.4 (455)	0.0 (5)	3.4 (460)	0.0 (0)	0.4 (52)	0.7 (97)	0.6 (82)	1.7 (232)	3.5 (494)	0.1 (20)	3.6 (514)	0.4 (60)	1.6 (228)	0.5 (74)	2.6 (362)	
FEB	3.1 (420)	0.0 (4)	3.2 (425)	0.0 (0)	0.5 (70)	1.1 (142)	0.8 (106)	2.4 (319)	3.2 (456)	0.1 (15)	3.3 (472)	0.5 (69)	1.8 (250)	0.6 (90)	2.9 (409)	
MAR	2.6 (349)	0.1 (16)	2.7 (365)	0.0 (0)	0.4 (49)	1.4 (186)	1.1 (149)	2.9 (384)	2.7 (379)	0.4 (61)	3.1 (439)	0.3 (44)	2.0 (284)	0.9 (134)	3.3 (462)	
APR	1.1 (142)	0.2 (30)	1.3 (172)	0.0 (0)	0.1 (14)	1.0 (132)	1.2 (165)	2.3 (310)	1.1 (154)	0.8 (115)	1.9 (269)	0.1 (8)	1.3 (184)	1.1 (158)	2.5 (350)	
MAY	0.4 (47)	0.3 (38)	0.6 (85)	0.0 (0)	0.0 (3)	0.7 (89)	1.2 (156)	1.9 (249)	0.4 (51)	1.1 (149)	1.4 (200)	0.0 (2)	0.8 (117)	1.2 (166)	2.0 (285)	
JUN	0.1 (17)	0.3 (45)	0.5 (62)	0.0 (0)	0.0 (1)	0.5 (62)	0.9 (120)	1.4 (183)	0.1 (18)	1.3 (178)	1.4 (197)	0.0 (0)	0.6 (80)	1.2 (166)	1.7 (246)	
JUL	0.0 (4)	0.3 (45)	0.4 (49)	0.0 (0)	0.0 (0)	0.4 (50)	0.6 (77)	1.0 (127)	0.0 (4)	1.3 (183)	1.3 (188)	0.0 (0)	0.5 (64)	1.2 (165)	1.6 (230)	
AUG	0.1 (14)	0.3 (41)	0.4 (55)	0.0 (0)	0.0 (1)	0.3 (41)	0.4 (56)	0.7 (98)	0.1 (15)	1.2 (171)	1.3 (186)	0.0 (1)	0.4 (58)	1.1 (156)	1.5 (215)	
SEP	0.3 (42)	0.2 (29)	0.5 (71)	0.0 (0)	0.0 (2)	0.3 (34)	0.4 (55)	0.7 (90)	0.3 (46)	0.9 (124)	1.2 (170)	0.0 (2)	0.4 (57)	0.9 (129)	1.3 (188)	
Total	15.0 (2005)	2.1 (284)	17.1 (2289)	0.0 (0)	1.7 (228)	7.0 (937)	8.7 (1164)	17.4 (2330)	15.4 (2177)	8.2 (1151)	23.6 (3328)	1.6 (232)	11.4 (1614)	10.6 (1492)	23.7 (3338)	

Dry Period

	Pre-Development ²								Post-Development with PDEs ³							
	INFLOW			OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW Outflow	ET	Total	
OCT	0.3 (40)	0.1 (18)	0.4 (57)	0.0 (0)	0.0 (2)	0.2 (25)	0.4 (59)	0.6 (86)	0.3 (43)	0.6 (78)	0.9 (121)	0.0 (1)	0.4 (50)	0.7 (103)	1.1 (154)	
NOV	1.7 (221)	0.1 (8)	1.7 (229)	0.0 (0)	0.1 (13)	0.2 (25)	0.5 (72)	0.8 (110)	1.7 (240)	0.2 (33)	1.9 (273)	0.1 (19)	0.7 (100)	0.6 (83)	1.4 (201)	
DEC	2.1 (287)	0.0 (5)	2.2 (292)	0.0 (0)	0.2 (24)	0.3 (43)	0.6 (76)	1.1 (144)	2.2 (311)	0.2 (24)	2.4 (335)	0.2 (29)	1.0 (146)	0.5 (71)	1.7 (246)	
JAN	2.5 (338)	0.0 (5)	2.6 (343)	0.0 (0)	0.2 (31)	0.5 (70)	0.6 (81)	1.4 (182)	2.6 (367)	0.1 (20)	2.7 (387)	0.3 (38)	1.3 (184)	0.5 (72)	2.1 (295)	
FEB	2.2 (295)	0.0 (4)	2.2 (299)	0.0 (0)	0.3 (36)	0.7 (95)	0.8 (103)	1.7 (233)	2.3 (320)	0.1 (15)	2.4 (335)	0.2 (33)	1.3 (188)	0.6 (87)	2.2 (309)	
MAR	1.7 (233)	0.1 (16)	1.9 (249)	0.0 (0)	0.2 (23)	0.9 (115)	1.1 (147)	2.1 (286)	1.8 (253)	0.4 (61)	2.2 (314)	0.1 (16)	1.4 (198)	0.9 (131)	2.4 (344)	
APR	1.1 (147)	0.2 (30)	1.3 (177)	0.0 (0)	0.1 (13)	0.7 (92)	1.3 (168)	2.0 (273)	1.1 (160)	0.8 (115)	1.9 (274)	0.1 (8)	1.1 (148)	1.1 (158)	2.2 (314)	
MAY	0.4 (47)	0.3 (38)	0.6 (85)	0.0 (0)	0.0 (2)	0.5 (65)	1.2 (161)	1.7 (228)	0.4 (51)	1.1 (148)	1.4 (199)	0.0 (2)	0.7 (95)	1.2 (168)	1.9 (265)	
JUN	0.1 (12)	0.3 (45)	0.4 (57)	0.0 (0)	0.0 (0)	0.3 (47)	0.9 (122)	1.3 (169)	0.1 (13)	1.3 (178)	1.4 (191)	0.0 (0)	0.5 (66)	1.2 (166)	1.6 (232)	
JUL	0.0 (5)	0.3 (45)	0.4 (50)	0.0 (0)	0.0 (0)	0.3 (39)	0.6 (80)	0.9 (119)	0.0 (5)	1.3 (183)	1.3 (189)	0.0 (0)	0.4 (55)	1.2 (166)	1.6 (221)	
AUG	0.1 (15)	0.3 (41)	0.4 (57)	0.0 (0)	0.0 (1)	0.2 (32)	0.4 (57)	0.7 (90)	0.1 (17)	1.2 (171)	1.3 (188)	0.0 (1)	0.4 (51)	1.1 (156)	1.5 (209)	
SEP	0.3 (40)	0.2 (29)	0.5 (69)	0.0 (0)	0.0 (2)	0.2 (27)	0.4 (56)	0.6 (84)	0.3 (43)	0.9 (124)	1.2 (168)	0.0 (3)	0.4 (52)	0.9 (130)	1.3 (184)	
Total	12.6 (1679)	2.1 (284)	14.7 (1963)	0.0 (0)	1.1 (148)	5.0 (674)	8.8 (1182)	15.0 (2005)	12.9 (1823)	8.2 (1150)	21.1 (2973)	1.1 (149)	9.5 (1333)	10.6 (1490)	21.1 (2973)	

Wet Period

	Pre-Development ²								Post-Development with PDEs ³							
	INFLOW			OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW Outflow	ET	Total	
OCT	0.3 (39)	0.1 (18)	0.4 (57)	0.0 (0)	0.0 (1)	0.3 (39)	0.4 (49)	0.7 (89)	0.3 (43)	0.6 (78)	0.9 (121)	0.0 (1)	0.4 (60)	0.7 (100)	1.1 (161)	
NOV	1.3 (171)	0.1 (8)	1.3 (179)	0.0 (0)	0.1 (11)	0.3 (34)	0.5 (61)	0.8 (106)	1.3 (185)	0.2 (33)	1.5 (219)	0.1 (13)	0.6 (91)	0.6 (80)	1.3 (183)	
DEC	1.8 (236)	0.0 (5)	1.8 (242)	0.0 (0)	0.1 (19)	0.4 (53)	0.5 (68)	1.1 (141)	1.8 (257)	0.2 (24)	2.0 (281)	0.2 (23)	1.0 (137)	0.5 (69)	1.6 (229)	
JAN	5.2 (702)	0.0 (5)	5.3 (706)	0.0 (0)	0.7 (97)	1.2 (156)	0.6 (84)	2.5 (337)	5.4 (762)	0.1 (20)	5.5 (782)	0.8 (107)	2.3 (319)	0.5 (78)	3.6 (503)	
FEB	5.1 (687)	0.0 (4)	5.2 (691)	0.0 (0)	1.1 (143)	1.8 (244)	0.8 (112)	3.7 (499)	5.3 (746)	0.1 (15)	5.4 (761)	1.0 (144)	2.7 (381)	0.7 (96)	4.4 (621)	
MAR	4.5 (595)	0.1 (16)	4.6 (611)	0.0 (0)	0.8 (104)	2.5 (337)	1.1 (152)	4.4 (593)	4.6 (646)	0.4 (59)	5.0 (706)	0.7 (105)	3.3 (466)	1.0 (140)	5.0 (710)	
APR	1.0 (131)	0.2 (30)	1.2 (161)	0.0 (0)	0.1 (14)	1.6 (217)	1.2 (158)	2.9 (389)	1.0 (142)	0.8 (117)	1.8 (259)	0.1 (8)	1.8 (260)	1.1 (158)	3.0 (427)	
MAY	0.4 (48)	0.3 (39)	0.6 (87)	0.0 (0)	0.0 (5)	1.1 (141)	1.1 (147)	2.2 (293)	0.4 (52)	1.1 (150)	1.4 (203)	0.0 (4)	1.2 (162)	1.1 (162)	2.3 (328)	
JUN	0.2 (27)	0.3 (45)	0.5 (72)	0.0 (0)	0.0 (1)	0.7 (94)	0.9 (116)	1.6 (211)	0.2 (29)	1.3 (179)	1.5 (208)	0.0 (1)	0.8 (109)	1.2 (166)	2.0 (277)	
JUL	0.0 (1)	0.3 (45)	0.3 (47)	0.0 (0)	0.0 (0)	0.6 (74)	0.5 (71)	1.1 (145)	0.0 (2)	1.3 (183)	1.3 (185)	0.0 (0)	0.6 (84)	1.2 (165)	1.8 (249)	
AUG	0.1 (10)	0.3 (41)	0.4 (51)	0.0 (0)	0.0 (0)	0.4 (59)	0.4 (54)	0.9 (114)	0.1 (11)	1.2 (171)	1.3 (182)	0.0 (0)	0.5 (72)	1.1 (156)	1.6 (228)	
SEP	0.3 (47)	0.2 (29)	0.6 (76)	0.0 (0)	0.0 (2)	0.4 (48)	0.4 (53)	0.8 (102)	0.4 (51)	0.9 (123)	1.2 (174)	0.0 (2)	0.5 (68)	0.9 (128)	1.4 (198)	
Total	20.1 (2695)	2.1 (285)	22.3 (2979)	0.0 (0)	3.0 (397)	11.2 (1494)	8.4 (1126)	22.6 (3018)	20.7 (2925)	8.2 (1154)	28.9 (4079)	2.9 (407)	15.7 (2210)	10.6 (1496)	29.2 (4113)	

Notes:

- (1) This includes the catchments within the Central San Juan Sub-basin that are north of San Juan Creek. Due to the grading plan of PA3, the total tributary area increases from pre to post development conditions.
- (2) The pre-development catchments include Catchments 15, 16, 20, 21, 26, 27, 28, 29, 33, and 37.
- (3) The post-development catchments include Catchments 15, 16, 20, 21, 26, 27, 28, 29, 33, 37, PA3-1, PA3-2, PA3-3, PA3-4, PA3-5, PA3-6, PA3-7, and PA3-8.

Central San Juan (Alternative B-4) – East CSJ/PA4¹

Pre-dev area = 1539 acres

Post-dev area = 1470 acres

All Years

	Pre-Development ²								Post-Development with PDEs ³							
	INFLOW			OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW Outflow	ET	Total	
OCT	0.3 (40)	0.0 (2)	0.3 (42)	0.0 (0)	0.0 (1)	0.2 (27)	0.3 (34)	0.5 (62)	0.3 (38)	0.1 (10)	0.4 (48)	0.0 (2)	0.2 (24)	0.3 (40)	0.5 (66)	
NOV	1.6 (207)	0.0 (1)	1.6 (208)	0.0 (0)	0.1 (14)	0.2 (28)	0.4 (55)	0.7 (96)	1.6 (198)	0.0 (4)	1.7 (202)	0.1 (18)	0.2 (27)	0.5 (55)	0.8 (100)	
DEC	2.1 (274)	0.0 (1)	2.1 (274)	0.0 (0)	0.2 (28)	0.4 (55)	0.5 (64)	1.1 (146)	2.1 (262)	0.0 (3)	2.2 (265)	0.2 (30)	0.4 (53)	0.5 (62)	1.2 (146)	
JAN	3.6 (460)	0.0 (0)	3.6 (461)	0.0 (0)	0.5 (68)	0.9 (115)	0.6 (73)	2.0 (256)	3.6 (441)	0.0 (3)	3.6 (443)	0.5 (67)	0.9 (110)	0.6 (70)	2.0 (248)	
FEB	3.3 (425)	0.0 (0)	3.3 (426)	0.0 (0)	0.6 (80)	1.2 (160)	0.7 (95)	2.6 (334)	3.3 (407)	0.0 (2)	3.3 (409)	0.6 (79)	1.2 (152)	0.7 (89)	2.6 (320)	
MAR	2.8 (353)	0.0 (2)	2.8 (355)	0.0 (0)	0.4 (57)	1.6 (201)	1.0 (130)	3.0 (388)	2.8 (338)	0.1 (8)	2.8 (346)	0.4 (54)	1.5 (190)	1.1 (129)	3.0 (373)	
APR	1.1 (144)	0.0 (3)	1.1 (147)	0.0 (0)	0.1 (15)	1.0 (133)	1.1 (143)	2.3 (291)	1.1 (137)	0.1 (15)	1.2 (152)	0.1 (16)	1.0 (124)	1.2 (148)	2.4 (288)	
MAY	0.4 (48)	0.0 (4)	0.4 (52)	0.0 (0)	0.0 (3)	0.7 (86)	1.0 (125)	1.7 (214)	0.4 (46)	0.2 (19)	0.5 (65)	0.0 (3)	0.6 (78)	1.1 (134)	1.8 (216)	
JUN	0.1 (17)	0.0 (4)	0.2 (21)	0.0 (0)	0.0 (1)	0.4 (57)	0.5 (69)	1.0 (126)	0.1 (16)	0.2 (23)	0.3 (39)	0.0 (1)	0.4 (51)	0.7 (85)	1.1 (137)	
JUL	0.0 (4)	0.0 (4)	0.1 (8)	0.0 (0)	0.0 (0)	0.4 (45)	0.2 (25)	0.5 (70)	0.0 (4)	0.2 (23)	0.2 (27)	0.0 (0)	0.3 (40)	0.4 (45)	0.7 (85)	
AUG	0.1 (14)	0.0 (4)	0.1 (18)	0.0 (0)	0.0 (1)	0.3 (37)	0.2 (20)	0.4 (57)	0.1 (13)	0.2 (22)	0.3 (35)	0.0 (1)	0.3 (33)	0.3 (38)	0.6 (71)	
SEP	0.3 (43)	0.0 (3)	0.4 (46)	0.0 (0)	0.0 (2)	0.2 (30)	0.2 (27)	0.5 (59)	0.3 (41)	0.1 (16)	0.5 (57)	0.0 (3)	0.2 (27)	0.3 (38)	0.6 (68)	
Total	15.8 (2028)	0.2 (28)	16.0 (2056)	0.0 (0)	2.1 (268)	7.6 (972)	6.7 (859)	16.4 (2099)	15.9 (1941)	1.2 (146)	17.0 (2087)	2.2 (273)	7.4 (911)	7.6 (934)	17.3 (2118)	

Dry Period

	Pre-Development ²								Post-Development with PDEs ³							
	INFLOW			OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW Outflow	ET	Total	
OCT	0.3 (40)	0.0 (2)	0.3 (42)	0.0 (0)	0.0 (1)	0.2 (23)	0.3 (37)	0.5 (61)	0.3 (38)	0.1 (10)	0.4 (48)	0.0 (2)	0.2 (21)	0.3 (43)	0.5 (65)	
NOV	1.7 (223)	0.0 (1)	1.7 (224)	0.0 (0)	0.1 (15)	0.2 (25)	0.5 (58)	0.8 (98)	1.7 (214)	0.0 (4)	1.8 (218)	0.2 (19)	0.2 (25)	0.5 (58)	0.8 (102)	
DEC	2.3 (290)	0.0 (1)	2.3 (291)	0.0 (0)	0.2 (30)	0.4 (53)	0.5 (67)	1.2 (149)	2.3 (278)	0.0 (3)	2.3 (281)	0.3 (33)	0.4 (51)	0.5 (65)	1.2 (148)	
JAN	2.7 (342)	0.0 (0)	2.7 (343)	0.0 (0)	0.3 (42)	0.7 (85)	0.6 (72)	1.6 (199)	2.7 (328)	0.0 (3)	2.7 (330)	0.4 (43)	0.7 (81)	0.6 (70)	1.6 (194)	
FEB	2.3 (298)	0.0 (0)	2.3 (298)	0.0 (0)	0.3 (43)	0.9 (109)	0.7 (93)	1.9 (245)	2.3 (285)	0.0 (2)	2.3 (287)	0.3 (42)	0.8 (103)	0.7 (88)	1.9 (233)	
MAR	1.8 (236)	0.0 (2)	1.8 (237)	0.0 (0)	0.2 (28)	1.0 (127)	1.0 (128)	2.2 (283)	1.8 (226)	0.1 (8)	1.9 (233)	0.2 (27)	1.0 (119)	1.0 (128)	2.2 (274)	
APR	1.2 (149)	0.0 (3)	1.2 (152)	0.0 (0)	0.1 (15)	0.8 (97)	1.1 (145)	2.0 (256)	1.2 (142)	0.1 (15)	1.3 (157)	0.1 (16)	0.7 (89)	1.2 (150)	2.1 (255)	
MAY	0.4 (47)	0.0 (4)	0.4 (51)	0.0 (0)	0.0 (2)	0.5 (64)	1.0 (129)	1.5 (196)	0.4 (45)	0.2 (19)	0.5 (64)	0.0 (3)	0.5 (58)	1.1 (139)	1.6 (199)	
JUN	0.1 (12)	0.0 (4)	0.1 (17)	0.0 (0)	0.0 (0)	0.3 (44)	0.5 (69)	0.9 (114)	0.1 (12)	0.2 (23)	0.3 (34)	0.0 (0)	0.3 (39)	0.7 (86)	1.0 (125)	
JUL	0.0 (5)	0.0 (4)	0.1 (10)	0.0 (0)	0.0 (0)	0.3 (36)	0.2 (27)	0.5 (63)	0.0 (5)	0.2 (23)	0.2 (28)	0.0 (0)	0.3 (31)	0.4 (47)	0.6 (78)	
AUG	0.1 (16)	0.0 (4)	0.2 (20)	0.0 (0)	0.0 (1)	0.2 (30)	0.2 (20)	0.4 (51)	0.1 (15)	0.2 (22)	0.3 (37)	0.0 (1)	0.2 (26)	0.3 (38)	0.5 (65)	
SEP	0.3 (40)	0.0 (3)	0.3 (43)	0.0 (0)	0.0 (2)	0.2 (25)	0.2 (28)	0.4 (54)	0.3 (39)	0.1 (16)	0.4 (54)	0.0 (3)	0.2 (22)	0.3 (39)	0.5 (63)	
Total	13.3 (1699)	0.2 (28)	13.5 (1727)	0.0 (0)	1.4 (178)	5.6 (718)	6.8 (873)	13.8 (1769)	13.3 (1626)	1.2 (146)	14.5 (1772)	1.5 (188)	5.4 (666)	7.7 (948)	14.7 (1803)	

Wet Period

	Pre-Development ²								Post-Development with PDEs ³							
	INFLOW			OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW Outflow	ET	Total	
OCT	0.3 (40)	0.0 (2)	0.3 (42)	0.0 (0)	0.0 (1)	0.3 (34)	0.2 (28)	0.5 (63)	0.3 (38)	0.1 (10)	0.4 (48)	0.0 (2)	0.3 (32)	0.3 (35)	0.6 (68)	
NOV	1.3 (173)	0.0 (1)	1.4 (173)	0.0 (0)	0.1 (11)	0.2 (32)	0.4 (48)	0.7 (91)	1.4 (165)	0.0 (4)	1.4 (170)	0.1 (15)	0.3 (31)	0.4 (49)	0.8 (96)	
DEC	1.9 (239)	0.0 (1)	1.9 (240)	0.0 (0)	0.2 (23)	0.5 (59)	0.4 (57)	1.1 (140)	1.9 (229)	0.0 (3)	1.9 (232)	0.2 (25)	0.5 (58)	0.5 (57)	1.1 (139)	
JAN	5.5 (710)	0.0 (0)	5.5 (710)	0.0 (0)	1.0 (124)	1.4 (177)	0.6 (75)	2.9 (376)	5.5 (679)	0.0 (3)	5.6 (682)	1.0 (117)	1.4 (172)	0.6 (72)	3.0 (362)	
FEB	5.4 (694)	0.0 (0)	5.4 (695)	0.0 (0)	1.2 (158)	2.1 (266)	0.8 (99)	4.1 (523)	5.4 (665)	0.0 (2)	5.4 (667)	1.3 (157)	2.1 (254)	0.8 (93)	4.1 (504)	
MAR	4.7 (602)	0.0 (2)	4.7 (603)	0.0 (0)	0.9 (119)	2.8 (357)	1.0 (134)	4.8 (610)	4.7 (576)	0.1 (8)	4.8 (584)	0.9 (112)	2.8 (339)	1.1 (132)	4.8 (583)	
APR	1.0 (132)	0.0 (3)	1.1 (135)	0.0 (0)	0.1 (15)	1.7 (212)	1.1 (139)	2.9 (366)	1.0 (127)	0.1 (15)	1.2 (142)	0.1 (15)	1.6 (198)	1.2 (145)	2.9 (358)	
MAY	0.4 (49)	0.0 (4)	0.4 (53)	0.0 (0)	0.0 (5)	1.0 (131)	0.9 (116)	2.0 (252)	0.4 (47)	0.2 (19)	0.5 (66)	0.0 (5)	1.0 (122)	1.0 (125)	2.1 (251)	
JUN	0.2 (27)	0.0 (4)	0.2 (32)	0.0 (0)	0.0 (1)	0.7 (84)	0.5 (68)	1.2 (152)	0.2 (26)	0.2 (23)	0.4 (49)	0.0 (1)	0.6 (77)	0.7 (82)	1.3 (161)	
JUL	0.0 (1)	0.0 (4)	0.0 (6)	0.0 (0)	0.0 (0)	0.5 (65)	0.2 (21)	0.7 (86)	0.0 (1)	0.2 (23)	0.2 (25)	0.0 (0)	0.5 (60)	0.3 (41)	0.8 (100)	
AUG	0.1 (10)	0.0 (4)	0.1 (14)	0.0 (0)	0.0 (0)	0.4 (52)	0.1 (18)	0.5 (70)	0.1 (10)	0.2 (22)	0.3 (31)	0.0 (0)	0.4 (48)	0.3 (37)	0.7 (85)	
SEP	0.4 (47)	0.0 (3)	0.4 (50)	0.0 (0)	0.0 (1)	0.3 (42)	0.2 (26)	0.5 (69)	0.4 (45)	0.1 (16)	0.5 (61)	0.0 (3)	0.3 (39)	0.3 (37)	0.6 (78)	
Total	21.3 (2725)	0.2 (28)	21.5 (2753)	0.0 (0)	3.6 (459)	11.8 (1509)	6.5 (829)	21.8 (2798)	21.3 (2609)	1.2 (146)	22.5 (2755)	3.7 (452)	11.7 (1429)	7.4 (904)	22.7 (2785)	

Notes:

- (1) This includes the catchments within the Central San Juan Sub-basin that are primarily southeast of San Juan Creek. Due to the grading plan of PA4 and PA3, the total tributary area decreases from pre to post development conditions.
- (2) The pre-development catchments include Catchments 24, 30, 31, 32, 34, 35, 36, and 38.
- (3) The post-development catchments include Catchments 24, 30, 31, 32, 34, 35, 36, and 38.

Central San Juan (Alternative B9) - Total Sub-basin¹

Pre-dev area = 4810 acres

Post-dev area = 4857 acres

All Years

	Pre-Development								Post-Development with PDFs						
	INFLOW			OUTFLOW					INFLOW			OUTFLOW			
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW flows	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW flows	ET	Total
OCT	0.3 (124)	0.0 (19)	0.4 (143)	0.0 (1)	0.0 (3)	0.2 (83)	0.3 (130)	0.5 (217)	0.3 (127)	0.6 (246)	0.9 (373)	0.0 (3)	0.5 (204)	0.7 (278)	1.2 (486)
NOV	1.6 (643)	0.0 (9)	1.6 (652)	0.2 (8)	0.1 (29)	0.2 (80)	0.5 (191)	0.8 (307)	1.6 (658)	0.3 (104)	1.9 (762)	0.1 (41)	0.8 (306)	0.6 (240)	1.5 (587)
DEC	2.1 (850)	0.0 (6)	2.1 (856)	0.3 (10)	0.2 (59)	0.4 (146)	0.5 (216)	1.1 (431)	2.1 (869)	0.2 (77)	2.3 (946)	0.2 (71)	1.1 (431)	0.5 (217)	1.8 (719)
JAN	3.6 (1429)	0.0 (5)	3.6 (1435)	0.5 (18)	0.4 (149)	0.8 (317)	0.6 (245)	1.8 (730)	3.6 (1461)	0.2 (63)	3.8 (1525)	0.4 (163)	1.7 (678)	0.6 (234)	2.7 (1075)
FEB	3.3 (1321)	0.0 (4)	3.3 (1325)	0.6 (21)	0.5 (190)	1.2 (469)	0.8 (315)	2.5 (995)	3.3 (1350)	0.1 (48)	3.5 (1398)	0.5 (185)	1.8 (746)	0.7 (286)	3.0 (1217)
MAR	2.7 (1097)	0.0 (17)	2.8 (1114)	0.4 (13)	0.4 (131)	1.5 (610)	1.1 (445)	3.0 (1199)	2.8 (1121)	0.5 (191)	3.2 (1313)	0.3 (120)	2.1 (846)	1.1 (428)	3.4 (1394)
APR	1.1 (446)	0.1 (33)	1.2 (479)	0.1 (5)	0.1 (34)	1.0 (418)	1.3 (515)	2.4 (972)	1.1 (456)	0.9 (365)	2.0 (821)	0.1 (23)	1.4 (569)	1.3 (509)	2.7 (1101)
MAY	0.4 (149)	0.1 (42)	0.5 (191)	0.0 (2)	0.0 (7)	0.7 (273)	1.1 (458)	1.8 (740)	0.4 (152)	1.2 (471)	1.5 (623)	0.0 (6)	1.0 (400)	1.2 (498)	2.2 (903)
JUN	0.1 (53)	0.1 (49)	0.3 (102)	0.0 (1)	0.0 (1)	0.5 (185)	0.6 (258)	1.1 (444)	0.1 (54)	1.4 (564)	1.5 (618)	0.0 (1)	0.8 (316)	1.1 (446)	1.9 (764)
JUL	0.0 (12)	0.1 (50)	0.2 (62)	0.0 (0)	0.0 (0)	0.4 (146)	0.3 (110)	0.6 (257)	0.0 (13)	1.4 (580)	1.5 (592)	0.0 (0)	0.7 (285)	1.0 (420)	1.7 (705)
AUG	0.1 (43)	0.1 (45)	0.2 (88)	0.0 (0)	0.0 (1)	0.3 (118)	0.2 (89)	0.5 (209)	0.1 (44)	1.3 (541)	1.4 (585)	0.0 (2)	0.7 (266)	1.0 (400)	1.6 (667)
SEP	0.3 (132)	0.1 (32)	0.4 (165)	0.0 (2)	0.0 (4)	0.2 (95)	0.3 (111)	0.5 (212)	0.3 (135)	1.0 (392)	1.3 (527)	0.0 (6)	0.6 (241)	0.8 (344)	1.5 (590)
Total	15.7 (6299)	0.8 (312)	16.5 (6612)	2.3 (81)	1.7 (608)	7.3 (2941)	7.7 (3082)	16.7 (6713)	15.9 (6439)	9.0 (3642)	24.9 (10081)	1.5 (623)	13.1 (5289)	10.6 (4299)	25.2 (10210)

Dry Period

	Pre-Development								Post-Development with PDFs						
	INFLOW			OUTFLOW					INFLOW			OUTFLOW			
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW flows	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW flows	ET	Total
OCT	0.3 (124)	0.0 (19)	0.4 (144)	0.0 (1)	0.0 (3)	0.2 (72)	0.3 (140)	0.5 (217)	0.3 (127)	0.6 (246)	0.9 (373)	0.0 (3)	0.5 (197)	0.7 (283)	1.2 (484)
NOV	1.7 (694)	0.0 (8)	1.8 (702)	0.2 (8)	0.1 (31)	0.2 (73)	0.5 (201)	0.8 (314)	1.8 (710)	0.3 (103)	2.0 (813)	0.1 (46)	0.8 (315)	0.6 (244)	1.5 (605)
DEC	2.2 (901)	0.0 (6)	2.3 (907)	0.3 (11)	0.2 (63)	0.3 (139)	0.6 (224)	1.1 (437)	2.3 (921)	0.2 (76)	2.5 (998)	0.2 (77)	1.1 (440)	0.5 (221)	1.8 (738)
JAN	2.7 (1063)	0.0 (5)	2.7 (1069)	0.4 (13)	0.2 (87)	0.6 (226)	0.6 (243)	1.4 (569)	2.7 (1088)	0.2 (63)	2.8 (1151)	0.2 (100)	1.3 (543)	0.6 (229)	2.2 (872)
FEB	2.3 (925)	0.0 (4)	2.3 (930)	0.4 (13)	0.3 (98)	0.8 (310)	0.8 (309)	1.8 (730)	2.3 (946)	0.1 (48)	2.5 (995)	0.2 (91)	1.4 (578)	0.7 (280)	2.3 (919)
MAR	1.8 (732)	0.0 (18)	1.9 (749)	0.2 (9)	0.2 (63)	0.9 (373)	1.1 (441)	2.2 (886)	1.8 (748)	0.5 (193)	2.3 (941)	0.1 (45)	1.4 (578)	1.0 (422)	2.6 (1045)
APR	1.2 (462)	0.1 (33)	1.2 (495)	0.2 (5)	0.1 (33)	0.7 (290)	1.3 (518)	2.1 (847)	1.2 (473)	0.9 (363)	2.1 (835)	0.1 (24)	1.1 (465)	1.3 (509)	2.5 (998)
MAY	0.4 (147)	0.1 (42)	0.5 (189)	0.0 (2)	0.0 (5)	0.5 (199)	1.2 (475)	1.7 (681)	0.4 (150)	1.2 (469)	1.5 (619)	0.0 (4)	0.8 (339)	1.2 (506)	2.1 (848)
JUN	0.1 (38)	0.1 (49)	0.2 (87)	0.0 (0)	0.0 (1)	0.4 (140)	0.7 (263)	1.0 (405)	0.1 (39)	1.4 (564)	1.5 (603)	0.0 (1)	0.7 (277)	1.1 (446)	1.8 (724)
JUL	0.0 (16)	0.1 (50)	0.2 (65)	0.0 (0)	0.0 (0)	0.3 (114)	0.3 (117)	0.6 (231)	0.0 (16)	1.4 (579)	1.5 (596)	0.0 (0)	0.6 (260)	1.0 (421)	1.7 (682)
AUG	0.1 (48)	0.1 (45)	0.2 (94)	0.0 (1)	0.0 (2)	0.2 (94)	0.2 (91)	0.5 (187)	0.1 (49)	1.3 (541)	1.5 (590)	0.0 (2)	0.6 (249)	1.0 (401)	1.6 (652)
SEP	0.3 (126)	0.1 (32)	0.4 (158)	0.0 (1)	0.0 (4)	0.2 (78)	0.3 (113)	0.5 (196)	0.3 (128)	1.0 (393)	1.3 (521)	0.0 (6)	0.6 (227)	0.9 (345)	1.4 (579)
Total	13.2 (5277)	0.8 (312)	13.9 (5589)	1.8 (64)	1.1 (391)	5.3 (2109)	7.8 (3136)	14.2 (5700)	13.3 (5396)	9.0 (3638)	22.3 (9034)	1.0 (400)	11.0 (4439)	10.6 (4307)	22.6 (9145)

Wet Period

	Pre-Development								Post-Development with PDFs						
	INFLOW			OUTFLOW					INFLOW			OUTFLOW			
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW Outflow	ET	Total
OCT	0.3 (124)	0.0 (19)	0.4 (143)	0.0 (1)	0.0 (3)	0.3 (107)	0.3 (108)	0.5 (219)	0.3 (127)	0.4 (159)	0.7 (286)	0.0 (4)	0.4 (148)	0.6 (229)	0.9 (381)
NOV	1.3 (536)	0.0 (9)	1.4 (545)	0.2 (6)	0.1 (24)	0.2 (95)	0.4 (169)	0.7 (293)	1.3 (552)	0.2 (68)	1.5 (620)	0.1 (33)	0.5 (215)	0.5 (211)	1.1 (458)
DEC	1.9 (742)	0.0 (6)	1.9 (748)	0.3 (9)	0.1 (51)	0.4 (161)	0.5 (199)	1.0 (419)	1.9 (764)	0.1 (50)	2.0 (814)	0.1 (58)	0.8 (342)	0.5 (199)	1.5 (599)
JAN	5.5 (2204)	0.0 (5)	5.5 (2210)	0.9 (30)	0.8 (279)	1.3 (510)	0.6 (250)	2.7 (1070)	5.5 (2270)	0.1 (41)	5.6 (2310)	0.7 (286)	2.1 (871)	0.6 (234)	3.4 (1391)
FEB	5.4 (2157)	0.0 (4)	5.4 (2162)	1.1 (38)	1.1 (385)	2.0 (807)	0.8 (327)	3.9 (1557)	5.4 (2222)	0.1 (31)	5.5 (2252)	0.9 (382)	2.7 (1103)	0.7 (289)	4.3 (1774)
MAR	4.7 (1870)	0.0 (17)	4.7 (1887)	0.6 (22)	0.8 (275)	2.8 (1110)	1.1 (453)	4.6 (1861)	4.7 (1926)	0.3 (121)	5.0 (2046)	0.7 (277)	3.3 (1368)	1.0 (420)	5.0 (2065)
APR	1.0 (411)	0.1 (33)	1.1 (445)	0.1 (5)	0.1 (34)	1.7 (687)	1.3 (510)	3.1 (1235)	1.0 (423)	0.6 (237)	1.6 (660)	0.1 (28)	1.8 (743)	1.2 (483)	3.1 (1254)
MAY	0.4 (152)	0.1 (42)	0.5 (194)	0.0 (2)	0.0 (11)	1.1 (431)	1.1 (423)	2.2 (867)	0.4 (156)	0.7 (305)	1.1 (461)	0.0 (11)	1.1 (458)	1.1 (462)	2.3 (931)
JUN	0.2 (84)	0.1 (49)	0.3 (134)	0.0 (1)	0.0 (2)	0.7 (279)	0.6 (246)	1.3 (527)	0.2 (87)	0.9 (363)	1.1 (450)	0.0 (3)	0.7 (300)	1.0 (409)	1.7 (712)
JUL	0.0 (5)	0.1 (50)	0.1 (54)	0.0 (0)	0.0 (0)	0.5 (214)	0.2 (97)	0.8 (311)	0.0 (5)	0.9 (373)	0.9 (377)	0.0 (0)	0.6 (229)	0.9 (353)	1.4 (582)
AUG	0.1 (32)	0.1 (45)	0.2 (77)	0.0 (0)	0.0 (1)	0.4 (168)	0.2 (84)	0.6 (253)	0.1 (33)	0.8 (347)	0.9 (380)	0.0 (1)	0.5 (190)	0.8 (333)	1.3 (524)
SEP	0.4 (147)	0.1 (32)	0.4 (179)	0.0 (2)	0.0 (4)	0.3 (133)	0.3 (107)	0.6 (245)	0.4 (151)	0.6 (251)	1.0 (402)	0.0 (6)	0.4 (173)	0.7 (285)	1.1 (464)
Total	21.1 (8465)	0.8 (313)	21.9 (8778)	3.3 (116)	2.9 (1068)	11.7 (4703)	7.4 (2969)	22.1 (8858)	21.3 (8716)	5.7 (2344)	27.0 (11059)	2.7 (1086)	15.0 (6140)	9.5 (3908)	27.2 (11134)

Notes:

(1) This includes the catchments within the Central San Juan Sub-basin. Due to the grading plans of PA3, PA4, and PA5, the total tributary area increases from pre to post development conditions.

Central San Juan (Alternative B-9) – East CSJ/PA4¹

Pre-dev area = 1539 acres

Post-dev area = 1427 acres

All Years

	Pre-Development ²								Post-Development with PDEs ³							
	INFLOW			OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW flows	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW flows	ET	Total	
OCT	0.3 (40)	0.0 (2)	0.3 (42)	0.0 (0)	0.0 (1)	0.2 (27)	0.3 (34)	0.5 (62)	0.3 (38)	0.8 (99)	1.2 (137)	0.0 (2)	0.8 (99)	0.7 (80)	1.5 (181)	
NOV	1.6 (207)	0.0 (1)	1.6 (208)	0.0 (0)	0.1 (14)	0.2 (28)	0.4 (55)	0.7 (96)	1.6 (195)	0.4 (42)	2.0 (237)	0.2 (20)	0.9 (107)	0.6 (75)	1.7 (202)	
DEC	2.1 (274)	0.0 (1)	2.1 (274)	0.0 (0)	0.2 (28)	0.4 (55)	0.5 (64)	1.1 (146)	2.2 (258)	0.3 (31)	2.4 (289)	0.3 (33)	1.1 (132)	0.6 (72)	2.0 (238)	
JAN	3.6 (460)	0.0 (0)	3.6 (461)	0.0 (0)	0.5 (68)	0.9 (115)	0.6 (73)	2.0 (256)	3.6 (434)	0.2 (26)	3.9 (460)	0.6 (73)	1.6 (190)	0.7 (79)	2.9 (342)	
FEB	3.3 (425)	0.0 (0)	3.3 (426)	0.0 (0)	0.6 (80)	1.2 (160)	0.7 (95)	2.6 (334)	3.4 (401)	0.2 (19)	3.5 (420)	0.7 (80)	1.7 (204)	0.8 (99)	3.2 (384)	
MAR	2.8 (353)	0.0 (2)	2.8 (355)	0.0 (0)	0.4 (57)	1.6 (201)	1.0 (130)	3.0 (388)	2.8 (333)	0.6 (77)	3.4 (410)	0.4 (52)	2.0 (237)	1.2 (148)	3.7 (437)	
APR	1.1 (144)	0.0 (3)	1.1 (147)	0.0 (0)	0.1 (15)	1.0 (133)	1.1 (143)	2.3 (291)	1.1 (135)	1.2 (147)	2.4 (283)	0.1 (11)	1.6 (187)	1.5 (173)	3.1 (372)	
MAY	0.4 (48)	0.0 (4)	0.4 (52)	0.0 (0)	0.0 (3)	0.7 (86)	1.0 (125)	1.7 (214)	0.4 (45)	1.6 (190)	2.0 (235)	0.0 (3)	1.4 (161)	1.3 (153)	2.7 (316)	
JUN	0.1 (17)	0.0 (4)	0.2 (21)	0.0 (0)	0.0 (1)	0.4 (57)	0.5 (69)	1.0 (126)	0.1 (16)	1.9 (228)	2.0 (244)	0.0 (1)	1.3 (155)	1.0 (122)	2.3 (278)	
JUL	0.0 (4)	0.0 (4)	0.1 (8)	0.0 (0)	0.0 (0)	0.4 (45)	0.2 (25)	0.5 (70)	0.0 (4)	2.0 (234)	2.0 (238)	0.0 (0)	1.3 (156)	0.9 (108)	2.2 (264)	
AUG	0.1 (14)	0.0 (4)	0.1 (18)	0.0 (0)	0.0 (1)	0.3 (37)	0.2 (20)	0.4 (57)	0.1 (13)	1.8 (218)	1.9 (231)	0.0 (1)	1.3 (150)	0.9 (104)	2.1 (255)	
SEP	0.3 (43)	0.0 (3)	0.4 (46)	0.0 (0)	0.0 (2)	0.2 (30)	0.2 (27)	0.5 (59)	0.3 (40)	1.3 (158)	1.7 (198)	0.0 (3)	1.1 (127)	0.8 (96)	1.9 (226)	
Total	15.8 (2028)	0.2 (28)	16.0 (2056)	0.0 (0)	2.1 (268)	7.6 (972)	6.7 (859)	16.4 (2099)	16.1 (1913)	12.4 (1469)	28.4 (3382)	2.3 (279)	16.0 (1905)	11.0 (1311)	29.4 (3495)	

Dry Period

	Pre-Development ²								Post-Development with PDEs ³							
	INFLOW			OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW flows	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW flows	ET	Total	
OCT	0.3 (40)	0.0 (2)	0.3 (42)	0.0 (0)	0.0 (1)	0.2 (23)	0.3 (37)	0.5 (61)	0.3 (38)	0.8 (99)	1.1 (137)	0.0 (2)	0.8 (97)	0.7 (82)	1.5 (181)	
NOV	1.7 (223)	0.0 (1)	1.7 (224)	0.0 (0)	0.1 (15)	0.2 (25)	0.5 (58)	0.8 (98)	1.8 (211)	0.4 (42)	2.1 (252)	0.2 (22)	0.9 (109)	0.6 (77)	1.8 (208)	
DEC	2.3 (290)	0.0 (1)	2.3 (291)	0.0 (0)	0.2 (30)	0.4 (53)	0.5 (67)	1.2 (149)	2.3 (274)	0.3 (31)	2.6 (304)	0.3 (36)	1.1 (134)	0.6 (74)	2.1 (244)	
JAN	2.7 (342)	0.0 (0)	2.7 (343)	0.0 (0)	0.3 (42)	0.7 (85)	0.6 (72)	1.6 (199)	2.7 (323)	0.2 (26)	2.9 (348)	0.4 (46)	1.3 (154)	0.7 (77)	2.3 (277)	
FEB	2.3 (298)	0.0 (0)	2.3 (298)	0.0 (0)	0.3 (43)	0.9 (109)	0.7 (93)	1.9 (245)	2.4 (281)	0.2 (19)	2.5 (300)	0.3 (41)	1.3 (151)	0.8 (97)	2.4 (290)	
MAR	1.8 (236)	0.0 (2)	1.8 (237)	0.0 (0)	0.2 (28)	1.0 (127)	1.0 (128)	2.2 (283)	1.9 (222)	0.7 (78)	2.5 (300)	0.2 (21)	1.4 (165)	1.2 (146)	2.8 (332)	
APR	1.2 (149)	0.0 (3)	1.2 (152)	0.0 (0)	0.1 (15)	0.8 (97)	1.1 (145)	2.0 (256)	1.2 (140)	1.2 (146)	2.4 (287)	0.1 (2)	1.3 (159)	1.5 (174)	2.9 (345)	
MAY	0.4 (47)	0.0 (4)	0.4 (51)	0.0 (0)	0.0 (2)	0.5 (64)	1.0 (129)	1.5 (196)	0.4 (45)	1.6 (189)	2.0 (234)	0.0 (2)	1.2 (145)	1.3 (157)	2.6 (304)	
JUN	0.1 (12)	0.0 (4)	0.1 (17)	0.0 (0)	0.0 (0)	0.3 (44)	0.5 (69)	0.9 (114)	0.1 (12)	1.9 (227)	2.0 (239)	0.0 (0)	1.2 (144)	1.0 (122)	2.2 (267)	
JUL	0.0 (5)	0.0 (4)	0.1 (10)	0.0 (0)	0.0 (0)	0.3 (36)	0.2 (27)	0.5 (63)	0.0 (5)	2.0 (234)	2.0 (239)	0.0 (0)	1.2 (149)	0.9 (109)	2.2 (258)	
AUG	0.1 (16)	0.0 (4)	0.2 (20)	0.0 (0)	0.0 (1)	0.2 (30)	0.2 (20)	0.4 (51)	0.1 (15)	1.8 (218)	2.0 (233)	0.0 (1)	1.2 (145)	0.9 (105)	2.1 (251)	
SEP	0.3 (40)	0.0 (3)	0.3 (43)	0.0 (0)	0.0 (2)	0.2 (25)	0.2 (28)	0.4 (54)	0.3 (38)	1.3 (158)	1.7 (197)	0.0 (3)	1.0 (123)	0.8 (96)	1.9 (222)	
Total	13.3 (1699)	0.2 (28)	13.5 (1727)	0.0 (0)	1.4 (178)	5.6 (718)	6.8 (873)	13.8 (1769)	13.5 (1602)	12.3 (1468)	25.8 (3070)	1.6 (186)	14.1 (1676)	11.1 (1317)	26.7 (3179)	

Wet Period

	Pre-Development ²								Post-Development with PDEs ³							
	INFLOW			OUTFLOW					INFLOW			OUTFLOW				
	Precipitation	Irrigation	Total	Quarry Runoff Recirculation	Runoff to SJ Crk	GW flows	ET	Total	Precipitation	Irrigation	Total	Runoff to SJ Crk	GW flows	ET	Total	
OCT	0.3 (40)	0.0 (2)	0.3 (42)	0.0 (0)	0.0 (1)	0.3 (34)	0.2 (28)	0.5 (63)	0.3 (38)	0.8 (100)	1.2 (137)	0.0 (2)	0.9 (103)	0.6 (76)	1.5 (180)	
NOV	1.3 (173)	0.0 (1)	1.4 (173)	0.0 (0)	0.1 (11)	0.2 (32)	0.4 (48)	0.7 (91)	1.4 (163)	0.4 (42)	1.7 (205)	0.1 (16)	0.9 (103)	0.6 (71)	1.6 (189)	
DEC	1.9 (239)	0.0 (1)	1.9 (240)	0.0 (0)	0.2 (23)	0.5 (59)	0.4 (57)	1.1 (140)	1.9 (225)	0.3 (31)	2.2 (257)	0.2 (27)	1.1 (128)	0.6 (68)	1.9 (223)	
JAN	5.5 (710)	0.0 (0)	5.5 (710)	0.0 (0)	1.0 (124)	1.4 (177)	0.6 (75)	2.9 (376)	5.6 (669)	0.2 (26)	5.8 (695)	1.1 (131)	2.3 (268)	0.7 (81)	4.0 (480)	
FEB	5.4 (694)	0.0 (0)	5.4 (695)	0.0 (0)	1.2 (158)	2.1 (266)	0.8 (99)	4.1 (523)	5.5 (655)	0.2 (19)	5.7 (674)	1.4 (163)	2.7 (317)	0.9 (103)	4.9 (584)	
MAR	4.7 (602)	0.0 (2)	4.7 (603)	0.0 (0)	0.9 (119)	2.8 (357)	1.0 (134)	4.8 (610)	4.8 (568)	0.6 (76)	5.4 (643)	1.0 (119)	3.3 (389)	1.3 (153)	5.6 (660)	
APR	1.0 (132)	0.0 (3)	1.1 (135)	0.0 (0)	0.1 (15)	1.7 (212)	1.1 (139)	2.9 (366)	1.0 (125)	1.3 (149)	2.3 (274)	0.1 (11)	2.1 (246)	1.4 (171)	3.6 (428)	
MAY	0.4 (49)	0.0 (4)	0.4 (53)	0.0 (0)	0.0 (5)	1.0 (131)	0.9 (116)	2.0 (252)	0.4 (46)	1.6 (192)	2.0 (238)	0.0 (4)	1.6 (194)	1.2 (146)	2.9 (344)	
JUN	0.2 (27)	0.0 (4)	0.2 (32)	0.0 (0)	0.0 (1)	0.7 (84)	0.5 (68)	1.2 (152)	0.2 (26)	1.9 (228)	2.1 (253)	0.0 (1)	1.5 (177)	1.0 (123)	2.5 (301)	
JUL	0.0 (1)	0.0 (4)	0.0 (6)	0.0 (0)	0.0 (0)	0.5 (65)	0.2 (21)	0.7 (86)	0.0 (1)	2.0 (234)	2.0 (235)	0.0 (0)	1.4 (171)	0.9 (107)	2.3 (278)	
AUG	0.1 (10)	0.0 (4)	0.1 (14)	0.0 (0)	0.0 (0)	0.4 (52)	0.1 (18)	0.5 (70)	0.1 (10)	1.8 (218)	1.9 (228)	0.0 (0)	1.3 (160)	0.9 (103)	2.2 (264)	
SEP	0.4 (47)	0.0 (3)	0.4 (50)	0.0 (0)	0.0 (1)	0.3 (42)	0.2 (26)	0.5 (69)	0.4 (45)	1.3 (157)	1.7 (202)	0.0 (3)	1.1 (135)	0.8 (94)	2.0 (233)	
Total	21.3 (2725)	0.2 (28)	21.5 (2753)	0.0 (0)	3.6 (459)	11.8 (1509)	6.5 (829)	21.8 (2798)	21.6 (2570)	12.4 (1473)	34.0 (4042)	4.0 (476)	20.1 (2390)	10.9 (1297)	35.0 (4163)	

Notes:

- (1) This includes the catchments within the Central San Juan Sub-basin that are primarily southeast of San Juan Creek. Due to the grading plan of PA4 and PA3, the total tributary area decreases from pre to post development conditions.
- (2) The pre-development catchments include Catchments 24, 30, 31, 32, 34, 35, 36, and 38.
- (3) The post-development catchments include Catchments 24, 30, 31, 32, 34, 35, 36, and 38.

Cristianitos (Alternative B-4) - Total Sub-basin

Pre-dev area = 2370 acres

Post-dev area = 2191 acres

All Years

	Pre-Development					Post-Development with PDFs								
	INFLOW	OUIFLOW				INFLOW			OUIFLOW					
	Precipitation	Runoff to Cristianitos Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to Cristianitos Crk	Stored Runoff for GC Irrig	Runoff Diverted to Gabino	GW Outflow	ET	Total
OCT	0.3 (58)	0.0 (1)	0.0 (4)	0.3 (59)	0.3 (64)	0.3 (53)	0.2 (43)	0.5 (96)	0.0 (0)	0.0 (1)	0.0 (2)	0.0 (7)	0.6 (105)	0.6 (115)
NOV	1.5 (299)	0.0 (7)	0.0 (5)	0.6 (112)	0.6 (124)	1.5 (274)	0.1 (19)	1.6 (293)	0.0 (5)	0.0 (4)	0.1 (13)	0.1 (11)	0.7 (131)	0.9 (164)
DEC	2.0 (394)	0.1 (10)	0.1 (20)	0.6 (128)	0.8 (158)	2.0 (362)	0.1 (13)	2.1 (376)	0.1 (9)	0.0 (4)	0.1 (17)	0.2 (35)	0.7 (135)	1.1 (201)
JAN	3.4 (663)	0.1 (22)	0.6 (123)	0.8 (153)	1.5 (298)	3.3 (609)	0.1 (11)	3.4 (620)	0.1 (25)	0.0 (6)	0.1 (27)	0.7 (130)	0.9 (157)	1.9 (344)
FEB	3.1 (613)	0.1 (20)	1.1 (224)	1.0 (197)	2.2 (441)	3.1 (563)	0.1 (9)	3.1 (572)	0.1 (23)	0.0 (5)	0.1 (25)	1.1 (202)	1.1 (199)	2.5 (454)
MAR	2.6 (509)	0.1 (13)	1.2 (230)	1.5 (291)	2.7 (534)	2.6 (468)	0.2 (37)	2.8 (504)	0.1 (14)	0.1 (10)	0.1 (22)	1.1 (205)	1.6 (295)	3.0 (545)
APR	1.0 (207)	0.0 (3)	0.5 (89)	1.8 (360)	2.3 (452)	1.0 (190)	0.4 (69)	1.4 (259)	0.0 (2)	0.0 (7)	0.0 (8)	0.5 (83)	2.0 (365)	2.5 (465)
MAY	0.3 (69)	0.0 (1)	0.2 (31)	1.8 (355)	2.0 (387)	0.3 (63)	0.5 (89)	0.8 (152)	0.0 (0)	0.0 (2)	0.0 (2)	0.2 (32)	2.0 (363)	2.2 (399)
JUN	0.1 (25)	0.0 (0)	0.1 (13)	1.2 (243)	1.3 (256)	0.1 (23)	0.6 (105)	0.7 (128)	0.0 (0)	0.0 (0)	0.0 (1)	0.1 (14)	1.4 (255)	1.5 (270)
JUL	0.0 (6)	0.0 (0)	0.0 (8)	0.5 (106)	0.6 (115)	0.0 (5)	0.6 (107)	0.6 (112)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (9)	0.8 (144)	0.8 (154)
AUG	0.1 (20)	0.0 (0)	0.0 (6)	0.2 (45)	0.3 (51)	0.1 (18)	0.6 (107)	0.7 (125)	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (8)	0.7 (122)	0.7 (130)
SEP	0.3 (61)	0.0 (1)	0.0 (4)	0.2 (46)	0.3 (51)	0.3 (56)	0.4 (71)	0.7 (127)	0.0 (0)	0.0 (1)	0.0 (2)	0.0 (8)	0.6 (115)	0.7 (126)
Total	14.8 (2923)	0.4 (79)	3.8 (758)	10.6 (2094)	14.8 (2930)	14.7 (2685)	3.7 (680)	18.4 (3364)	0.4 (79)	0.2 (39)	0.7 (121)	4.1 (742)	13.1 (2385)	18.4 (3366)

Dry Period

	Pre-Development					Post-Development with PDFs								
	INFLOW	OUIFLOW				INFLOW			OUIFLOW					
	Precipitation	Runoff to Cristianitos Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to Cristianitos Crk	Stored Runoff for GC Irrig	Runoff Diverted to Gabino	GW Outflow	ET	Total
OCT	0.3 (58)	0.0 (1)	0.0 (3)	0.3 (67)	0.4 (71)	0.3 (53)	0.2 (43)	0.5 (96)	0.0 (0)	0.0 (1)	0.0 (2)	0.0 (6)	0.6 (112)	0.7 (121)
NOV	1.6 (322)	0.0 (8)	0.0 (5)	0.6 (120)	0.7 (133)	1.6 (296)	0.1 (19)	1.7 (315)	0.0 (6)	0.0 (5)	0.1 (14)	0.1 (11)	0.8 (137)	0.9 (173)
DEC	2.1 (418)	0.1 (11)	0.1 (21)	0.7 (134)	0.8 (166)	2.1 (384)	0.1 (13)	2.2 (397)	0.1 (10)	0.0 (4)	0.1 (18)	0.2 (36)	0.8 (140)	1.1 (208)
JAN	2.5 (493)	0.1 (15)	0.3 (51)	0.8 (153)	1.1 (219)	2.5 (453)	0.1 (11)	2.5 (464)	0.1 (16)	0.0 (6)	0.1 (21)	0.4 (66)	0.9 (157)	1.5 (265)
FEB	2.2 (429)	0.1 (11)	0.5 (100)	1.0 (195)	1.5 (306)	2.2 (394)	0.1 (9)	2.2 (404)	0.1 (11)	0.0 (5)	0.1 (18)	0.5 (97)	1.1 (197)	1.8 (328)
MAR	1.7 (339)	0.0 (7)	0.5 (105)	1.5 (287)	2.0 (399)	1.7 (312)	0.2 (37)	1.9 (349)	0.0 (5)	0.0 (9)	0.1 (15)	0.5 (96)	1.6 (290)	2.3 (416)
APR	1.1 (214)	0.0 (4)	0.3 (55)	1.8 (354)	2.1 (412)	1.1 (197)	0.4 (69)	1.5 (266)	0.0 (2)	0.0 (5)	0.0 (9)	0.3 (54)	2.0 (360)	2.3 (429)
MAY	0.3 (68)	0.0 (1)	0.1 (17)	1.7 (335)	1.8 (353)	0.3 (63)	0.5 (88)	0.8 (151)	0.0 (0)	0.0 (1)	0.0 (2)	0.1 (19)	1.9 (343)	2.0 (366)
JUN	0.1 (18)	0.0 (0)	0.0 (8)	1.1 (209)	1.1 (218)	0.1 (16)	0.6 (105)	0.7 (121)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (10)	1.2 (224)	1.3 (234)
JUL	0.0 (7)	0.0 (0)	0.0 (6)	0.5 (91)	0.5 (97)	0.0 (7)	0.6 (107)	0.6 (113)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (7)	0.7 (136)	0.8 (142)
AUG	0.1 (22)	0.0 (0)	0.0 (4)	0.2 (40)	0.2 (44)	0.1 (21)	0.6 (107)	0.7 (127)	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (6)	0.7 (121)	0.7 (128)
SEP	0.3 (58)	0.0 (1)	0.0 (3)	0.2 (45)	0.2 (49)	0.3 (54)	0.4 (71)	0.7 (124)	0.0 (0)	0.0 (1)	0.0 (2)	0.0 (7)	0.6 (114)	0.7 (124)
Total	12.4 (2448)	0.3 (59)	1.9 (376)	10.3 (2030)	12.5 (2466)	12.3 (2248)	3.7 (679)	16.0 (2928)	0.3 (51)	0.2 (36)	0.6 (102)	2.3 (415)	12.8 (2331)	16.1 (2935)

Wet Period

	Pre-Development					Post-Development with PDFs								
	INFLOW	OUIFLOW				INFLOW			OUIFLOW					
	Precipitation	Runoff to Cristianitos Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to Cristianitos Crk	Stored Runoff for GC Irrig	Runoff Diverted to Gabino	GW Outflow	ET	Total
OCT	0.3 (57)	0.0 (1)	0.0 (5)	0.2 (43)	0.2 (49)	0.3 (53)	0.2 (43)	0.5 (96)	0.0 (0)	0.0 (1)	0.0 (2)	0.0 (7)	0.5 (92)	0.6 (102)
NOV	1.3 (249)	0.0 (4)	0.0 (5)	0.5 (95)	0.5 (105)	1.3 (228)	0.1 (19)	1.4 (247)	0.0 (3)	0.0 (4)	0.1 (10)	0.1 (10)	0.6 (118)	0.8 (144)
DEC	1.7 (345)	0.0 (9)	0.1 (19)	0.6 (114)	0.7 (142)	1.7 (317)	0.1 (13)	1.8 (330)	0.0 (8)	0.0 (4)	0.1 (16)	0.2 (34)	0.7 (124)	1.0 (185)
JAN	5.2 (1023)	0.2 (36)	1.4 (277)	0.8 (151)	2.4 (464)	5.1 (939)	0.1 (12)	5.2 (951)	0.2 (44)	0.0 (6)	0.2 (40)	1.5 (265)	0.9 (156)	2.8 (511)
FEB	5.1 (1002)	0.2 (39)	2.5 (488)	1.0 (199)	3.7 (727)	5.0 (920)	0.1 (9)	5.1 (929)	0.3 (48)	0.0 (5)	0.2 (40)	2.3 (424)	1.1 (202)	3.9 (720)
MAR	4.4 (868)	0.1 (26)	2.5 (494)	1.5 (300)	4.2 (821)	4.4 (797)	0.2 (36)	4.6 (833)	0.2 (32)	0.1 (11)	0.2 (38)	2.4 (434)	1.7 (304)	4.5 (819)
APR	1.0 (191)	0.0 (3)	0.8 (162)	1.9 (372)	2.7 (537)	1.0 (175)	0.4 (70)	1.3 (245)	0.0 (2)	0.1 (10)	0.0 (8)	0.8 (144)	2.1 (378)	3.0 (542)
MAY	0.4 (70)	0.0 (1)	0.3 (61)	2.0 (398)	2.3 (460)	0.4 (65)	0.5 (90)	0.8 (154)	0.0 (1)	0.0 (2)	0.0 (3)	0.3 (57)	2.2 (405)	2.6 (468)
JUN	0.2 (39)	0.0 (1)	0.1 (24)	1.6 (313)	1.7 (338)	0.2 (36)	0.6 (105)	0.8 (141)	0.0 (0)	0.0 (0)	0.0 (1)	0.1 (24)	1.8 (321)	1.9 (347)
JUL	0.0 (2)	0.0 (0)	0.1 (14)	0.7 (138)	0.8 (152)	0.0 (2)	0.6 (107)	0.6 (109)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (15)	0.9 (162)	1.0 (177)
AUG	0.1 (15)	0.0 (0)	0.0 (10)	0.3 (55)	0.3 (65)	0.1 (14)	0.6 (107)	0.7 (120)	0.0 (0)	0.0 (0)	0.0 (1)	0.1 (11)	0.7 (123)	0.7 (135)
SEP	0.3 (68)	0.0 (1)	0.0 (7)	0.2 (49)	0.3 (57)	0.3 (62)	0.4 (70)	0.7 (133)	0.0 (0)	0.0 (1)	0.0 (2)	0.1 (10)	0.6 (116)	0.7 (129)
Total	19.9 (3929)	0.6 (122)	7.9 (1565)	11.3 (2228)	19.8 (3915)	19.8 (3608)	3.7 (681)	23.5 (4290)	0.8 (138)	0.2 (44)	0.9 (162)	7.9 (1434)	13.7 (2500)	23.4 (4278)

Cristianitos (Alternative B-4) – PA6¹

Pre-dev area = 493 acres

Post-dev area = 515 acres

All Years

	Pre-Development ²					Post-Development with PDFs ³								
	INFLOW	O U T F L O W				INFLOW			O U T F L O W					
	Precipitation	Runoff to Cristianitos Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to Cristianitos Crk	Stored Runoff for GC Irrig ⁴	Runoff Diverted to Gabino	GW Outflow	ET	Total
OCT	0.3 (12)	0.0 (0)	0.0 (1)	0.3 (12)	0.3 (13)	0.3 (13)	0.6 (26)	0.9 (39)	0.0 (0)	0.0 (1)	0.0 (0)	0.1 (3)	1.1 (46)	1.1 (49)
NOV	1.5 (63)	0.1 (3)	0.0 (1)	0.5 (21)	0.6 (24)	1.5 (66)	0.3 (12)	1.8 (77)	0.0 (1)	0.1 (4)	0.0 (0)	0.1 (4)	0.9 (41)	1.2 (50)
DEC	2.0 (84)	0.1 (4)	0.1 (4)	0.6 (23)	0.7 (31)	2.0 (87)	0.2 (8)	2.2 (95)	0.0 (2)	0.1 (4)	0.0 (0)	0.3 (15)	0.8 (36)	1.3 (57)
JAN	3.4 (141)	0.1 (6)	0.7 (27)	0.7 (27)	1.5 (61)	3.4 (146)	0.2 (7)	3.6 (153)	0.2 (7)	0.1 (6)	0.0 (0)	1.0 (44)	0.9 (39)	2.2 (95)
FEB	3.2 (130)	0.1 (6)	1.2 (51)	0.8 (34)	2.2 (91)	3.1 (135)	0.1 (6)	3.3 (141)	0.2 (7)	0.1 (5)	0.0 (0)	1.3 (58)	1.1 (47)	2.7 (117)
MAR	2.6 (108)	0.1 (4)	1.3 (53)	1.2 (51)	2.6 (108)	2.6 (112)	0.5 (23)	3.2 (135)	0.1 (3)	0.2 (10)	0.0 (0)	1.4 (60)	1.6 (70)	3.3 (143)
APR	1.1 (44)	0.0 (2)	0.5 (20)	1.6 (64)	2.1 (86)	1.1 (45)	1.0 (44)	2.1 (90)	0.0 (0)	0.2 (7)	0.0 (0)	0.6 (25)	2.1 (90)	2.8 (122)
MAY	0.4 (15)	0.0 (0)	0.2 (7)	1.7 (69)	1.9 (77)	0.4 (15)	1.3 (56)	1.7 (72)	0.0 (0)	0.0 (2)	0.0 (0)	0.2 (10)	2.3 (100)	2.6 (112)
JUN	0.1 (5)	0.0 (0)	0.1 (3)	1.5 (62)	1.6 (65)	0.1 (5)	1.5 (66)	1.7 (72)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (5)	2.3 (98)	2.4 (103)
JUL	0.0 (1)	0.0 (0)	0.0 (2)	0.9 (38)	1.0 (39)	0.0 (1)	1.6 (67)	1.6 (68)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (3)	2.0 (84)	2.0 (87)
AUG	0.1 (4)	0.0 (0)	0.0 (1)	0.3 (14)	0.4 (15)	0.1 (4)	1.6 (67)	1.7 (71)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (3)	1.7 (71)	1.7 (74)
SEP	0.3 (13)	0.0 (0)	0.0 (1)	0.2 (10)	0.3 (11)	0.3 (13)	1.0 (44)	1.3 (57)	0.0 (0)	0.0 (1)	0.0 (0)	0.1 (3)	1.3 (57)	1.4 (61)
Total	15.1 (620)	0.6 (26)	4.2 (171)	10.3 (425)	15.1 (622)	15.0 (643)	10.0 (427)	25.0 (1070)	0.5 (20)	0.9 (39)	0.0 (0)	5.4 (232)	18.2 (780)	25.0 (1070)

Dry Period

	Pre-Development ²					Post-Development with PDFs ³								
	INFLOW	O U T F L O W				INFLOW			O U T F L O W					
	Precipitation	Runoff to Cristianitos Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to Cristianitos Crk	Stored Runoff for GC Irrig ⁴	Runoff Diverted to Gabino	GW Outflow	ET	Total
OCT	0.3 (12)	0.0 (0)	0.0 (1)	0.3 (13)	0.4 (14)	0.3 (13)	0.6 (26)	0.9 (39)	0.0 (0)	0.0 (1)	0.0 (0)	0.1 (3)	1.1 (47)	1.2 (50)
NOV	1.7 (68)	0.1 (3)	0.0 (1)	0.5 (22)	0.6 (26)	1.7 (71)	0.3 (11)	1.9 (82)	0.0 (1)	0.1 (5)	0.0 (0)	0.1 (5)	1.0 (42)	1.2 (52)
DEC	2.2 (89)	0.1 (4)	0.1 (4)	0.6 (24)	0.8 (32)	2.1 (92)	0.2 (8)	2.3 (100)	0.0 (2)	0.1 (4)	0.0 (0)	0.3 (15)	0.9 (36)	1.3 (57)
JAN	2.5 (105)	0.1 (4)	0.3 (11)	0.7 (27)	1.0 (43)	2.5 (108)	0.2 (7)	2.7 (116)	0.1 (3)	0.1 (6)	0.0 (0)	0.6 (26)	0.9 (38)	1.7 (73)
FEB	2.2 (91)	0.1 (4)	0.6 (24)	0.8 (34)	1.5 (62)	2.2 (95)	0.1 (6)	2.3 (101)	0.1 (3)	0.1 (5)	0.0 (0)	0.8 (32)	1.1 (47)	2.0 (87)
MAR	1.8 (72)	0.1 (3)	0.6 (25)	1.2 (50)	1.9 (77)	1.7 (75)	0.6 (24)	2.3 (98)	0.0 (1)	0.2 (9)	0.0 (0)	0.7 (30)	1.6 (70)	2.5 (109)
APR	1.1 (45)	0.0 (2)	0.3 (13)	1.6 (64)	1.9 (78)	1.1 (47)	1.0 (44)	2.1 (91)	0.0 (0)	0.1 (5)	0.0 (0)	0.4 (18)	2.1 (90)	2.6 (113)
MAY	0.4 (15)	0.0 (0)	0.1 (4)	1.7 (68)	1.8 (73)	0.4 (15)	1.3 (56)	1.7 (71)	0.0 (0)	0.0 (1)	0.0 (0)	0.2 (7)	2.3 (100)	2.5 (108)
JUN	0.1 (4)	0.0 (0)	0.0 (2)	1.4 (58)	1.5 (60)	0.1 (4)	1.5 (66)	1.6 (70)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (3)	2.2 (95)	2.3 (98)
JUL	0.0 (2)	0.0 (0)	0.0 (1)	0.8 (33)	0.8 (35)	0.0 (2)	1.6 (67)	1.6 (69)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)	1.9 (82)	2.0 (84)
AUG	0.1 (5)	0.0 (0)	0.0 (1)	0.3 (12)	0.3 (13)	0.1 (5)	1.6 (67)	1.7 (72)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)	1.6 (71)	1.7 (73)
SEP	0.3 (12)	0.0 (0)	0.0 (1)	0.2 (10)	0.3 (11)	0.3 (13)	1.0 (44)	1.3 (57)	0.0 (0)	0.0 (1)	0.0 (0)	0.1 (3)	1.3 (57)	1.4 (61)
Total	12.6 (519)	0.5 (21)	2.1 (86)	10.1 (416)	12.7 (523)	12.6 (539)	10.0 (427)	22.5 (966)	0.2 (10)	0.8 (36)	0.0 (0)	3.4 (146)	18.1 (774)	22.5 (966)

Wet Period

	Pre-Development ²					Post-Development with PDFs ³								
	INFLOW	O U T F L O W				INFLOW			O U T F L O W					
	Precipitation	Runoff to Cristianitos Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to Cristianitos Crk	Stored Runoff for GC Irrig ⁴	Runoff Diverted to Gabino	GW Outflow	ET	Total
OCT	0.3 (12)	0.0 (0)	0.0 (1)	0.2 (10)	0.3 (11)	0.3 (13)	0.6 (27)	0.9 (39)	0.0 (0)	0.0 (1)	0.0 (0)	0.1 (2)	1.0 (45)	1.1 (48)
NOV	1.3 (53)	0.1 (2)	0.0 (1)	0.4 (18)	0.5 (21)	1.3 (55)	0.3 (12)	1.5 (66)	0.0 (0)	0.1 (4)	0.0 (0)	0.1 (4)	0.9 (39)	1.1 (46)
DEC	1.8 (73)	0.1 (3)	0.1 (4)	0.5 (21)	0.7 (28)	1.8 (76)	0.2 (8)	2.0 (84)	0.0 (1)	0.1 (4)	0.0 (0)	0.4 (15)	0.8 (34)	1.3 (55)
JAN	5.3 (217)	0.2 (9)	1.5 (62)	0.7 (27)	2.4 (99)	5.2 (225)	0.2 (7)	5.4 (232)	0.3 (14)	0.1 (6)	0.0 (0)	1.9 (82)	0.9 (39)	3.3 (141)
FEB	5.2 (212)	0.2 (9)	2.6 (108)	0.8 (35)	3.7 (152)	5.1 (220)	0.1 (6)	5.3 (226)	0.4 (16)	0.1 (5)	0.0 (0)	2.6 (112)	1.1 (48)	4.2 (182)
MAR	4.5 (184)	0.2 (8)	2.7 (112)	1.3 (52)	4.2 (172)	4.5 (191)	0.5 (23)	5.0 (214)	0.2 (9)	0.3 (11)	0.0 (0)	2.9 (122)	1.7 (71)	5.0 (214)
APR	1.0 (40)	0.0 (2)	0.9 (37)	1.5 (63)	2.5 (102)	1.0 (42)	1.0 (45)	2.0 (87)	0.0 (0)	0.2 (10)	0.0 (0)	1.0 (41)	2.1 (90)	3.3 (141)
MAY	0.4 (15)	0.0 (1)	0.3 (14)	1.7 (72)	2.1 (86)	0.4 (15)	1.3 (57)	1.7 (72)	0.0 (0)	0.1 (2)	0.0 (0)	0.4 (17)	2.4 (102)	2.8 (122)
JUN	0.2 (8)	0.0 (0)	0.1 (5)	1.7 (71)	1.9 (77)	0.2 (9)	1.5 (66)	1.7 (75)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (7)	2.5 (106)	2.6 (113)
JUL	0.0 (0)	0.0 (0)	0.1 (3)	1.1 (47)	1.2 (50)	0.0 (0)	1.6 (67)	1.6 (67)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (4)	2.1 (89)	2.2 (93)
AUG	0.1 (3)	0.0 (0)	0.1 (2)	0.4 (18)	0.5 (20)	0.1 (3)	1.6 (67)	1.6 (70)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (3)	1.7 (73)	1.8 (76)
SEP	0.4 (14)	0.0 (1)	0.0 (1)	0.3 (11)	0.3 (13)	0.3 (15)	1.0 (44)	1.4 (58)	0.0 (0)	0.0 (1)	0.0 (0)	0.1 (3)	1.3 (58)	1.4 (62)
Total	20.3 (833)	0.9 (35)	8.5 (351)	10.8 (444)	20.2 (830)	20.1 (864)	10.0 (428)	30.1 (1292)	1.0 (42)	1.0 (44)	0.0 (0)	9.7 (414)	18.5 (792)	30.1 (1291)

Notes:

- (1) This includes all catchments that encompass the development areas in PA6. Because the catchment shapes change from pre- to post-, the results presented here include some open space outside of PA6. Thus, the total area is greater than the development area of PA6
- (2) The pre-development catchments include Catchments 56, 57, and 59-63.
- (3) The post-development catchments include Catchments CM1-4, 57, 59, 61, 63, and 59-63.
- (4) The golf course storage volume was approximated at 12 acre-ft. This exceeds the URQM sizing criteria (WEF, 1998), which was calculated to be 5.4 acre-ft.

Cristianitos (Alternative B-4) – PA7¹

Pre-dev area = 881 acres

Post-dev area = 680 acres

All Years

	Pre-Development ²					Post-Development with PDFs ³								
	INFLOW	O U T F L O W				INFLOW			O U T F L O W					
	Precipitation	Runoff to Cristianitos Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to Cristianitos Crk	Stored Runoff for GC Irrig	Runoff Diverted to Gabino	GW Outflow	ET	Total
OCT	0.3 (22)	0.0 (0)	0.0 (2)	0.3 (21)	0.3 (23)	0.3 (17)	0.3 (17)	0.6 (33)	0.0 (0)	0.0 (0)	0.0 (2)	0.0 (3)	0.6 (33)	0.7 (38)
NOV	1.5 (112)	0.1 (4)	0.0 (3)	0.5 (37)	0.6 (44)	1.5 (86)	0.1 (7)	1.6 (93)	0.1 (4)	0.0 (0)	0.2 (13)	0.1 (5)	0.6 (36)	1.0 (58)
DEC	2.0 (148)	0.1 (6)	0.1 (11)	0.6 (41)	0.8 (58)	2.0 (113)	0.1 (5)	2.1 (118)	0.1 (7)	0.0 (0)	0.3 (18)	0.3 (15)	0.6 (35)	1.3 (75)
JAN	3.4 (249)	0.2 (15)	0.7 (51)	0.7 (48)	1.6 (114)	3.4 (190)	0.1 (4)	3.4 (194)	0.3 (17)	0.0 (0)	0.5 (27)	0.7 (41)	0.7 (41)	2.2 (126)
FEB	3.1 (230)	0.2 (14)	1.2 (87)	0.8 (61)	2.2 (162)	3.1 (176)	0.1 (3)	3.2 (179)	0.3 (15)	0.0 (0)	0.4 (25)	1.0 (58)	0.9 (50)	2.6 (148)
MAR	2.6 (191)	0.1 (9)	1.3 (92)	1.2 (90)	2.6 (191)	2.6 (146)	0.2 (13)	2.8 (159)	0.2 (10)	0.0 (0)	0.4 (22)	1.1 (61)	1.3 (74)	3.0 (167)
APR	1.1 (78)	0.0 (2)	0.5 (38)	1.5 (113)	2.1 (153)	1.0 (59)	0.4 (25)	1.5 (84)	0.0 (2)	0.0 (0)	0.1 (8)	0.5 (27)	1.6 (93)	2.3 (129)
MAY	0.4 (26)	0.0 (0)	0.2 (14)	1.7 (123)	1.9 (137)	0.3 (20)	0.6 (32)	0.9 (52)	0.0 (0)	0.0 (0)	0.0 (2)	0.2 (11)	1.8 (99)	2.0 (113)
JUN	0.1 (9)	0.0 (0)	0.1 (6)	1.4 (105)	1.5 (111)	0.1 (7)	0.7 (39)	0.8 (46)	0.0 (0)	0.0 (0)	0.0 (1)	0.1 (5)	1.4 (81)	1.5 (87)
JUL	0.0 (2)	0.0 (0)	0.0 (3)	0.8 (60)	0.9 (64)	0.0 (2)	0.7 (40)	0.7 (41)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (3)	0.9 (52)	1.0 (55)
AUG	0.1 (7)	0.0 (0)	0.0 (2)	0.3 (23)	0.3 (25)	0.1 (6)	0.7 (40)	0.8 (45)	0.0 (0)	0.0 (0)	0.0 (1)	0.1 (3)	0.8 (43)	0.8 (46)
SEP	0.3 (23)	0.0 (0)	0.0 (2)	0.2 (17)	0.3 (19)	0.3 (18)	0.5 (27)	0.8 (44)	0.0 (0)	0.0 (0)	0.0 (2)	0.1 (3)	0.7 (38)	0.8 (44)
Total	15.0 (1099)	0.7 (52)	4.2 (310)	10.1 (739)	15.0 (1101)	14.8 (837)	4.4 (252)	19.2 (1089)	1.0 (57)	0.0 (0)	2.1 (121)	4.1 (234)	11.9 (676)	19.2 (1088)

Dry Period

	Pre-Development ²					Post-Development with PDFs ³								
	INFLOW	O U T F L O W				INFLOW			O U T F L O W					
	Precipitation	Runoff to Cristianitos Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to Cristianitos Crk	Stored Runoff for GC Irrig	Runoff Diverted to Gabino	GW Outflow	ET	Total
OCT	0.3 (22)	0.0 (0)	0.0 (1)	0.3 (23)	0.3 (25)	0.3 (17)	0.3 (17)	0.6 (33)	0.0 (0)	0.0 (0)	0.0 (2)	0.0 (3)	0.6 (35)	0.7 (40)
NOV	1.6 (121)	0.1 (5)	0.0 (3)	0.5 (39)	0.6 (47)	1.6 (92)	0.1 (7)	1.8 (99)	0.1 (5)	0.0 (0)	0.2 (14)	0.1 (5)	0.7 (38)	1.1 (62)
DEC	2.1 (157)	0.1 (7)	0.1 (10)	0.6 (43)	0.8 (60)	2.1 (120)	0.1 (5)	2.2 (125)	0.1 (8)	0.0 (0)	0.3 (18)	0.3 (15)	0.6 (37)	1.4 (78)
JAN	2.5 (185)	0.1 (10)	0.3 (24)	0.7 (48)	1.1 (82)	2.5 (141)	0.1 (4)	2.6 (145)	0.2 (12)	0.0 (0)	0.4 (21)	0.4 (24)	0.7 (40)	1.7 (98)
FEB	2.2 (161)	0.1 (7)	0.6 (42)	0.8 (60)	1.5 (110)	2.2 (123)	0.1 (3)	2.2 (126)	0.1 (7)	0.0 (0)	0.3 (18)	0.6 (31)	0.9 (50)	1.9 (106)
MAR	1.7 (127)	0.1 (4)	0.6 (44)	1.2 (89)	1.9 (137)	1.7 (97)	0.2 (13)	1.9 (110)	0.1 (4)	0.0 (0)	0.3 (15)	0.5 (31)	1.3 (73)	2.2 (123)
APR	1.1 (81)	0.0 (2)	0.3 (24)	1.5 (114)	1.9 (140)	1.1 (61)	0.4 (25)	1.5 (86)	0.0 (2)	0.0 (0)	0.2 (9)	0.3 (18)	1.6 (93)	2.1 (121)
MAY	0.3 (26)	0.0 (0)	0.1 (8)	1.6 (121)	1.8 (129)	0.3 (19)	0.6 (32)	0.9 (52)	0.0 (0)	0.0 (0)	0.0 (2)	0.1 (8)	1.7 (97)	1.9 (107)
JUN	0.1 (7)	0.0 (0)	0.1 (4)	1.3 (97)	1.4 (101)	0.1 (5)	0.7 (39)	0.8 (44)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (4)	1.3 (74)	1.4 (79)
JUL	0.0 (3)	0.0 (0)	0.0 (2)	0.7 (53)	0.8 (55)	0.0 (2)	0.7 (40)	0.7 (42)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (2)	0.9 (49)	0.9 (51)
AUG	0.1 (8)	0.0 (0)	0.0 (2)	0.3 (19)	0.3 (21)	0.1 (6)	0.7 (40)	0.8 (46)	0.0 (0)	0.0 (0)	0.0 (1)	0.0 (2)	0.7 (42)	0.8 (45)
SEP	0.3 (22)	0.0 (0)	0.0 (1)	0.2 (16)	0.2 (18)	0.3 (17)	0.5 (27)	0.8 (44)	0.0 (0)	0.0 (0)	0.0 (2)	0.0 (3)	0.7 (38)	0.8 (43)
Total	12.5 (920)	0.5 (36)	2.3 (167)	9.8 (722)	12.6 (926)	12.4 (701)	4.4 (252)	16.8 (952)	0.7 (39)	0.0 (0)	1.8 (102)	2.6 (146)	11.7 (665)	16.8 (953)

Wet Period

	Pre-Development ²					Post-Development with PDFs ³								
	INFLOW	O U T F L O W				INFLOW			O U T F L O W					
	Precipitation	Runoff to Cristianitos Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to Cristianitos Crk	Stored Runoff for GC Irrig	Runoff Diverted to Gabino	GW Outflow	ET	Total
OCT	0.3 (22)	0.0 (0)	0.0 (2)	0.2 (16)	0.3 (18)	0.3 (16)	0.3 (17)	0.6 (33)	0.0 (0)	0.0 (0)	0.0 (2)	0.0 (3)	0.5 (30)	0.6 (35)
NOV	1.3 (94)	0.0 (2)	0.0 (3)	0.4 (31)	0.5 (36)	1.3 (71)	0.1 (7)	1.4 (78)	0.0 (2)	0.0 (0)	0.2 (10)	0.1 (5)	0.6 (33)	0.9 (50)
DEC	1.8 (130)	0.1 (6)	0.2 (11)	0.5 (37)	0.7 (54)	1.7 (99)	0.1 (5)	1.8 (104)	0.1 (7)	0.0 (0)	0.3 (16)	0.3 (15)	0.6 (33)	1.2 (70)
JAN	5.2 (385)	0.4 (26)	1.5 (108)	0.7 (49)	2.5 (182)	5.2 (293)	0.1 (4)	5.3 (298)	0.5 (29)	0.0 (0)	0.7 (40)	1.4 (77)	0.7 (42)	3.3 (187)
FEB	5.1 (377)	0.4 (30)	2.5 (182)	0.8 (62)	3.7 (274)	5.1 (287)	0.1 (3)	5.1 (290)	0.5 (31)	0.0 (0)	0.7 (40)	2.0 (114)	0.9 (52)	4.2 (238)
MAR	4.4 (326)	0.2 (18)	2.6 (194)	1.3 (93)	4.1 (305)	4.4 (249)	0.2 (13)	4.6 (262)	0.4 (22)	0.0 (0)	0.7 (38)	2.2 (125)	1.4 (77)	4.6 (261)
APR	1.0 (72)	0.0 (2)	0.9 (66)	1.5 (113)	2.5 (181)	1.0 (55)	0.4 (25)	1.4 (80)	0.0 (1)	0.0 (0)	0.1 (8)	0.8 (45)	1.6 (93)	2.6 (147)
MAY	0.4 (26)	0.0 (0)	0.4 (26)	1.7 (127)	2.1 (154)	0.4 (20)	0.6 (33)	0.9 (53)	0.0 (1)	0.0 (0)	0.0 (3)	0.3 (19)	1.8 (103)	2.2 (125)
JUN	0.2 (15)	0.0 (0)	0.1 (10)	1.7 (122)	1.8 (132)	0.2 (11)	0.7 (39)	0.9 (50)	0.0 (0)	0.0 (0)	0.0 (1)	0.1 (8)	1.7 (96)	1.9 (105)
JUL	0.0 (1)	0.0 (0)	0.1 (6)	1.0 (76)	1.1 (82)	0.0 (1)	0.7 (40)	0.7 (40)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (5)	1.0 (59)	1.1 (64)
AUG	0.1 (6)	0.0 (0)	0.1 (4)	0.4 (31)	0.5 (35)	0.1 (4)	0.7 (40)	0.8 (44)	0.0 (0)	0.0 (0)	0.0 (1)	0.1 (4)	0.8 (44)	0.8 (48)
SEP	0.3 (26)	0.0 (0)	0.0 (3)	0.2 (18)	0.3 (21)	0.3 (20)	0.5 (27)	0.8 (46)	0.0 (0)	0.0 (0)	0.0 (2)	0.1 (4)	0.7 (38)	0.8 (45)
Total	20.1 (1478)	1.2 (85)	8.4 (614)	10.6 (775)	20.1 (1473)	19.9 (1126)	4.5 (252)	24.3 (1378)	1.6 (93)	0.0 (0)	2.9 (162)	7.4 (421)	12.3 (699)	24.3 (1375)

Notes:

- (1) This includes all catchments that encompass the development areas in PA7. Because the catchment shapes change from pre- to post-, the results presented here include some open space outside of PA7. Thus, the total area is greater than the development area of PA7.
- (2) The pre-development catchments include Catchments 39, 43, 44, 45, 47, 48, 51, 52, 54, 55, and 58.
- (3) The post-development catchments include Catchments 39, 43, 44, 45, 47, 48, 51, 52, 54, 55, 58, PA7-9, PA7-10, PA7-11, PA7-14, and PA7-16.

Lower Gabino (Alternative B-4) - Total Sub-basin¹

Pre-dev area = 1566 acres

Post-dev area = 1740 acres

All Years

	Pre-Development ¹					Post-Development with PDFs ²									
	INFLOW	OUTFLOW				INFLOW				OUTFLOW					
	Precipitation	Runoff to Gabino Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Diverted Runoff from Cristianitos ⁴	Total	Runoff to Gabino Crk ⁵	Diverted Runoff from Cristianitos ⁴	Stored Runoff for GC Irrig ⁶	GW Outflow	ET	Total
OCT	0.3 (42)	0.0 (1)	0.0 (0)	0.4 (44)	0.4 (45)	0.3 (47)	0.3 (37)	0.0 (2)	0.6 (86)	0.0 (5)	0.0 (2)	0.0 (0)	0.0 (3)	0.6 (86)	0.7 (97)
NOV	1.8 (220)	0.0 (4)	0.0 (6)	0.6 (78)	0.7 (89)	1.7 (245)	0.1 (16)	0.1 (13)	1.9 (273)	0.2 (34)	0.1 (13)	0.0 (2)	0.1 (17)	0.7 (104)	1.2 (170)
DEC	2.3 (290)	0.0 (6)	0.3 (33)	0.7 (88)	1.0 (127)	2.2 (323)	0.1 (11)	0.1 (17)	2.4 (352)	0.3 (49)	0.1 (17)	0.0 (2)	0.3 (50)	0.7 (106)	1.5 (224)
JAN	3.9 (488)	0.1 (11)	1.3 (160)	0.8 (103)	2.2 (274)	3.7 (543)	0.1 (10)	0.2 (27)	4.0 (580)	0.6 (86)	0.2 (27)	0.0 (3)	1.1 (166)	0.8 (121)	2.8 (404)
FEB	3.6 (450)	0.1 (11)	1.7 (210)	1.1 (132)	2.8 (353)	3.5 (502)	0.1 (7)	0.2 (25)	3.7 (534)	0.5 (78)	0.2 (25)	0.0 (3)	1.4 (208)	1.0 (152)	3.2 (465)
MAR	3.0 (374)	0.1 (8)	1.5 (189)	1.6 (195)	3.2 (392)	2.9 (416)	0.2 (29)	0.2 (22)	3.2 (468)	0.4 (64)	0.2 (22)	0.0 (5)	1.3 (181)	1.6 (226)	3.4 (499)
APR	1.2 (152)	0.0 (3)	0.3 (40)	1.9 (242)	2.3 (285)	1.2 (169)	0.4 (56)	0.1 (8)	1.6 (234)	0.1 (21)	0.1 (8)	0.0 (3)	0.3 (44)	1.9 (279)	2.5 (356)
MAY	0.4 (51)	0.0 (1)	0.1 (8)	2.0 (246)	2.1 (255)	0.4 (56)	0.5 (72)	0.0 (2)	0.9 (131)	0.0 (6)	0.0 (2)	0.0 (0)	0.1 (12)	2.0 (285)	2.1 (305)
JUN	0.1 (18)	0.0 (0)	0.0 (2)	1.5 (181)	1.5 (183)	0.1 (20)	0.6 (86)	0.0 (1)	0.7 (107)	0.0 (2)	0.0 (1)	0.0 (0)	0.0 (3)	1.5 (219)	1.5 (224)
JUL	0.0 (4)	0.0 (0)	0.0 (1)	0.6 (75)	0.6 (76)	0.0 (5)	0.6 (88)	0.0 (0)	0.6 (93)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (2)	0.9 (127)	0.9 (129)
AUG	0.1 (15)	0.0 (0)	0.0 (1)	0.3 (39)	0.3 (40)	0.1 (16)	0.6 (88)	0.0 (1)	0.7 (105)	0.0 (2)	0.0 (1)	0.0 (0)	0.0 (3)	0.8 (109)	0.8 (115)
SEP	0.4 (45)	0.0 (1)	0.0 (0)	0.3 (37)	0.3 (38)	0.3 (50)	0.4 (59)	0.0 (2)	0.8 (112)	0.0 (6)	0.0 (2)	0.0 (0)	0.0 (5)	0.7 (98)	0.8 (111)
Total	17.3 (2148)	0.4 (45)	5.2 (649)	11.8 (1461)	17.3 (2155)	16.5 (2392)	3.9 (560)	0.8 (121)	21.2 (3073)	2.4 (353)	0.8 (121)	0.1 (19)	4.8 (695)	13.2 (1912)	21.4 (3100)

Dry Period

	Pre-Development ¹					Post-Development with PDFs ²									
	INFLOW	OUTFLOW				INFLOW				OUTFLOW					
	Precipitation	Runoff to Gabino Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Diverted Runoff from Cristianitos ⁴	Total	Runoff to Gabino Crk ⁵	Diverted Runoff from Cristianitos ⁴	Stored Runoff for GC Irrig ⁶	GW Outflow	ET	Total
OCT	0.3 (42)	0.0 (1)	0.0 (0)	0.4 (49)	0.4 (50)	0.3 (47)	0.3 (37)	0.0 (2)	0.6 (86)	0.0 (5)	0.0 (2)	0.0 (0)	0.0 (3)	0.6 (91)	0.7 (102)
NOV	1.9 (237)	0.0 (5)	0.1 (8)	0.7 (84)	0.8 (97)	1.8 (264)	0.1 (16)	0.1 (14)	2.0 (294)	0.3 (38)	0.1 (14)	0.0 (2)	0.1 (19)	0.8 (109)	1.3 (182)
DEC	2.5 (308)	0.1 (6)	0.3 (31)	0.7 (92)	1.0 (130)	2.4 (343)	0.1 (11)	0.1 (18)	2.6 (372)	0.4 (52)	0.1 (18)	0.0 (2)	0.4 (51)	0.8 (109)	1.6 (233)
JAN	2.9 (364)	0.1 (8)	0.6 (77)	0.8 (103)	1.5 (189)	2.8 (405)	0.1 (10)	0.1 (21)	3.0 (436)	0.4 (63)	0.1 (21)	0.0 (3)	0.6 (89)	0.8 (120)	2.0 (296)
FEB	2.5 (316)	0.1 (6)	0.9 (117)	1.1 (131)	2.0 (255)	2.4 (352)	0.1 (7)	0.1 (18)	2.6 (377)	0.3 (49)	0.1 (18)	0.0 (2)	0.8 (118)	1.0 (151)	2.3 (338)
MAR	2.0 (250)	0.0 (5)	0.7 (84)	1.6 (193)	2.3 (281)	1.9 (278)	0.2 (30)	0.1 (15)	2.2 (323)	0.3 (38)	0.1 (15)	0.0 (4)	0.6 (84)	1.5 (223)	2.5 (363)
APR	1.3 (158)	0.0 (3)	0.3 (32)	1.9 (238)	2.2 (273)	1.2 (176)	0.4 (56)	0.1 (9)	1.7 (240)	0.2 (22)	0.1 (9)	0.0 (2)	0.3 (36)	1.9 (275)	2.4 (343)
MAY	0.4 (50)	0.0 (3)	0.0 (3)	1.9 (237)	1.9 (240)	0.4 (56)	0.5 (72)	0.0 (2)	0.9 (130)	0.0 (5)	0.0 (2)	0.0 (0)	0.0 (7)	1.9 (275)	2.0 (289)
JUN	0.1 (13)	0.0 (0)	0.0 (1)	1.3 (167)	1.4 (168)	0.1 (14)	0.6 (86)	0.0 (0)	0.7 (101)	0.0 (1)	0.0 (0)	0.0 (0)	0.0 (3)	1.4 (205)	1.4 (209)
JUL	0.0 (5)	0.0 (0)	0.0 (1)	0.5 (68)	0.6 (69)	0.0 (6)	0.6 (88)	0.0 (0)	0.6 (94)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (2)	0.8 (122)	0.9 (124)
AUG	0.1 (16)	0.0 (0)	0.0 (0)	0.3 (38)	0.3 (39)	0.1 (18)	0.6 (88)	0.0 (1)	0.7 (107)	0.0 (2)	0.0 (1)	0.0 (0)	0.0 (3)	0.7 (108)	0.8 (114)
SEP	0.3 (43)	0.0 (1)	0.0 (0)	0.3 (36)	0.3 (37)	0.3 (48)	0.4 (59)	0.0 (2)	0.8 (109)	0.0 (6)	0.0 (2)	0.0 (0)	0.0 (5)	0.7 (97)	0.8 (110)
Total	14.5 (1802)	0.3 (35)	2.9 (356)	11.6 (1437)	14.7 (1828)	13.8 (2008)	3.9 (559)	0.7 (102)	18.4 (2669)	1.9 (282)	0.7 (102)	0.1 (16)	2.9 (419)	13.0 (1886)	18.6 (2704)

Wet Period

	Pre-Development ¹					Post-Development with PDFs ²									
	INFLOW	OUTFLOW				INFLOW				OUTFLOW					
	Precipitation	Runoff to Gabino Crk	GW Outflow	ET	Total	Precipitation	Irrigation	Diverted Runoff from Cristianitos ⁴	Total	Runoff to Gabino Crk ⁵	Diverted Runoff from Cristianitos ⁴	Stored Runoff for GC Irrig ⁶	GW Outflow	ET	Total
OCT	0.3 (42)	0.0 (1)	0.0 (0)	0.3 (34)	0.3 (35)	0.3 (47)	0.3 (37)	0.0 (2)	0.6 (86)	0.0 (5)	0.0 (2)	0.0 (0)	0.0 (2)	0.5 (77)	0.6 (87)
NOV	1.5 (182)	0.0 (4)	0.0 (1)	0.5 (67)	0.6 (71)	1.4 (203)	0.1 (16)	0.1 (10)	1.6 (229)	0.2 (27)	0.1 (10)	0.0 (2)	0.1 (12)	0.6 (93)	1.0 (144)
DEC	2.0 (252)	0.0 (5)	0.3 (35)	0.6 (79)	1.0 (120)	1.9 (281)	0.1 (12)	0.1 (16)	2.1 (308)	0.3 (42)	0.1 (16)	0.0 (2)	0.3 (48)	0.7 (98)	1.4 (205)
JAN	6.0 (750)	0.1 (18)	2.7 (333)	0.8 (102)	3.7 (454)	5.8 (835)	0.1 (10)	0.3 (40)	6.1 (885)	0.9 (136)	0.3 (40)	0.0 (3)	2.3 (330)	0.8 (122)	4.4 (632)
FEB	5.9 (734)	0.2 (19)	3.3 (407)	1.1 (134)	4.5 (560)	5.6 (817)	0.1 (7)	0.3 (40)	6.0 (865)	0.9 (138)	0.3 (40)	0.0 (3)	2.8 (399)	1.1 (156)	5.1 (735)
MAR	5.1 (637)	0.1 (15)	3.3 (411)	1.6 (201)	5.0 (626)	4.9 (709)	0.2 (29)	0.3 (38)	5.4 (776)	0.8 (118)	0.3 (38)	0.1 (8)	2.7 (389)	1.6 (233)	5.4 (786)
APR	1.1 (140)	0.0 (2)	0.5 (58)	2.0 (250)	2.5 (310)	1.1 (155)	0.4 (57)	0.1 (8)	1.5 (220)	0.1 (20)	0.1 (8)	0.0 (5)	0.4 (61)	2.0 (288)	2.6 (383)
MAY	0.4 (51)	0.0 (1)	0.2 (19)	2.1 (266)	2.3 (286)	0.4 (57)	0.5 (73)	0.0 (3)	0.9 (133)	0.0 (7)	0.0 (3)	0.0 (1)	0.2 (22)	2.1 (306)	2.3 (339)
JUN	0.2 (29)	0.0 (0)	0.0 (3)	1.7 (210)	1.7 (215)	0.2 (32)	0.6 (86)	0.0 (1)	0.8 (119)	0.0 (3)	0.0 (1)	0.0 (0)	0.0 (5)	1.7 (246)	1.8 (236)
JUL	0.0 (2)	0.0 (0)	0.0 (1)	0.7 (89)	0.7 (90)	0.0 (2)	0.6 (88)	0.0 (0)	0.6 (90)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (3)	0.9 (138)	1.0 (140)
AUG	0.1 (11)	0.0 (0)	0.0 (1)	0.3 (42)	0.3 (43)	0.1 (12)	0.6 (88)	0.0 (1)	0.7 (101)	0.0 (1)	0.0 (1)	0.0 (0)	0.0 (4)	0.8 (111)	0.8 (117)
SEP	0.4 (50)	0.0 (1)	0.0 (1)	0.3 (40)	0.3 (41)	0.4 (55)	0.4 (59)	0.0 (2)	0.8 (117)	0.0 (6)	0.0 (2)	0.0 (0)	0.0 (5)	0.7 (100)	0.8 (113)
Total	23.2 (2880)	0.5 (67)	10.2 (1271)	12.2 (1513)	22.9 (2850)	22.1 (3205)	3.9 (561)	1.1 (162)	27.1 (3928)	3.5 (504)	1.1 (162)	0.2 (25)	8.8 (1279)	13.6 (1968)	27.2 (3938)

Notes:

- (1) This includes the catchments within the Lower Gabino Sub-basin that are directly tributary to Gabino Creek. Due to the grading plans of PA7, the total tributary area increases from pre to post development conditions.
- (2) The pre-development catchments include Catchments 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80.
- (3) The post-development catchments include Catchments 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, PA7-2, PA7-3, PA7-4, PA7-5, PA7-6, PA7-7, PA7-12, PA7-13, PA7-15, PA8-12 and PA8-14.
- (4) This represents runoff from the catchments that are tributary to Gabino Creek.
- (5) This represents the treated runoff diverted from Cristianitos. The watershed inches are associated with the area of Lower Gabino.
- (6) The golf course storage volume was approximated at 12 acre-ft. This exceeds the URQM sizing criteria (WEF, 1998), which was calculated to be 0.3 acre-ft.

Blind Canyon (Alternative B-4) -Total Sub-basin¹

Pre-dev area = 734 acres

Post-dev area = 1267 acres

All Years

	Pre-Development ²					Post-Development with PDEs ³							
	INFLOW	OUTFLOW				INFLOW			OUTFLOW				
	Precipitation	Runoff to Blind Cyn	GW Flows	ET	Total	Precipitation	Irrigation	Total	Runoff to Blind Cyn	Stored Runoff for Irrigation ⁴	GW Flows ⁵	ET	Total
OCT	0.3 (20)	0.0 (1)	0.0 (0)	0.3 (20)	0.3 (20)	0.3 (33)	0.6 (61)	0.9 (94)	0.0 (1)	0.0 (1)	0.1 (11)	0.9 (97)	1.0 (109)
NOV	1.7 (105)	0.1 (4)	0.0 (3)	0.6 (37)	0.7 (44)	1.6 (169)	0.2 (26)	1.8 (195)	0.0 (4)	0.0 (4)	0.5 (52)	0.8 (86)	1.4 (147)
DEC	2.3 (138)	0.1 (6)	0.3 (16)	0.7 (42)	1.0 (64)	2.1 (223)	0.2 (19)	2.3 (242)	0.1 (8)	0.0 (4)	1.0 (101)	0.7 (77)	1.8 (191)
JAN	3.8 (233)	0.2 (12)	1.3 (77)	0.8 (49)	2.3 (138)	3.6 (375)	0.2 (16)	3.7 (391)	0.2 (21)	0.0 (5)	2.0 (208)	0.8 (85)	3.0 (318)
FEB	3.5 (215)	0.2 (11)	1.7 (101)	1.0 (63)	2.9 (175)	3.3 (347)	0.1 (13)	3.4 (359)	0.2 (21)	0.0 (4)	2.0 (215)	1.0 (103)	3.3 (344)
MAR	2.9 (179)	0.1 (8)	1.5 (90)	1.5 (93)	3.1 (191)	2.7 (288)	0.5 (50)	3.2 (338)	0.1 (12)	0.1 (13)	1.8 (191)	1.5 (153)	3.5 (369)
APR	1.2 (73)	0.0 (3)	0.3 (19)	1.9 (117)	2.3 (138)	1.1 (117)	0.9 (94)	2.0 (211)	0.0 (2)	0.1 (9)	0.6 (63)	1.8 (191)	2.5 (264)
MAY	0.4 (24)	0.0 (1)	0.1 (4)	2.0 (123)	2.1 (127)	0.4 (39)	1.1 (121)	1.5 (160)	0.0 (1)	0.0 (2)	0.2 (21)	2.0 (207)	2.2 (231)
JUN	0.1 (9)	0.0 (0)	0.0 (1)	1.4 (86)	1.4 (87)	0.1 (14)	1.4 (144)	1.5 (158)	0.0 (0)	0.0 (0)	0.1 (8)	1.8 (191)	1.9 (200)
JUL	0.0 (2)	0.0 (0)	0.0 (0)	0.3 (21)	0.4 (22)	0.0 (3)	1.4 (147)	1.4 (150)	0.0 (0)	0.0 (0)	0.0 (5)	1.5 (162)	1.6 (167)
AUG	0.1 (7)	0.0 (0)	0.0 (0)	0.1 (8)	0.1 (9)	0.1 (11)	1.4 (147)	1.5 (158)	0.0 (0)	0.0 (0)	0.1 (10)	1.4 (150)	1.5 (160)
SEP	0.4 (22)	0.0 (1)	0.0 (0)	0.2 (15)	0.3 (16)	0.3 (35)	0.9 (98)	1.3 (133)	0.0 (1)	0.0 (1)	0.2 (16)	1.2 (123)	1.3 (140)
Total	16.8 (1026)	0.8 (48)	5.1 (311)	11.0 (672)	16.9 (1031)	15.7 (1654)	8.9 (937)	24.5 (2591)	0.7 (70)	0.4 (42)	8.5 (902)	15.4 (1626)	25.0 (2641)

Dry Period

	Pre-Development ²					Post-Development with PDEs ³							
	INFLOW	OUTFLOW				INFLOW			OUTFLOW				
	Precipitation	Runoff to Blind Cyn	GW Flows	ET	Total	Precipitation	Irrigation	Total	Runoff to Blind Cyn	Stored Runoff for Irrigation ⁴	GW Flows ⁵	ET	Total
OCT	0.3 (20)	0.0 (1)	0.0 (0)	0.4 (22)	0.4 (23)	0.3 (33)	0.6 (61)	0.9 (93)	0.0 (1)	0.0 (1)	0.1 (11)	0.9 (99)	1.1 (111)
NOV	1.9 (113)	0.1 (5)	0.1 (4)	0.6 (39)	0.8 (48)	1.7 (183)	0.2 (26)	2.0 (209)	0.0 (5)	0.0 (4)	0.5 (57)	0.8 (89)	1.5 (155)
DEC	2.4 (147)	0.1 (7)	0.2 (15)	0.7 (44)	1.1 (65)	2.2 (237)	0.2 (19)	2.4 (256)	0.1 (9)	0.0 (4)	1.0 (107)	0.7 (79)	1.9 (199)
JAN	2.8 (174)	0.1 (9)	0.6 (38)	0.8 (49)	1.6 (95)	2.6 (280)	0.2 (16)	2.8 (296)	0.1 (12)	0.0 (5)	1.3 (138)	0.8 (84)	2.3 (239)
FEB	2.5 (151)	0.1 (7)	0.9 (57)	1.0 (62)	2.1 (126)	2.3 (243)	0.1 (13)	2.4 (256)	0.1 (11)	0.0 (4)	1.3 (134)	1.0 (102)	2.4 (251)
MAR	2.0 (119)	0.1 (5)	0.7 (40)	1.5 (92)	2.2 (136)	1.8 (192)	0.5 (50)	2.3 (242)	0.0 (5)	0.1 (13)	1.0 (103)	1.4 (151)	2.6 (271)
APR	1.2 (75)	0.0 (3)	0.2 (15)	1.9 (116)	2.2 (134)	1.2 (121)	0.9 (94)	2.0 (215)	0.0 (2)	0.1 (7)	0.5 (57)	1.8 (191)	2.4 (257)
MAY	0.4 (24)	0.0 (1)	0.0 (1)	1.9 (118)	2.0 (120)	0.4 (39)	1.1 (121)	1.5 (159)	0.0 (1)	0.0 (1)	0.2 (16)	1.9 (205)	2.1 (223)
JUN	0.1 (6)	0.0 (0)	0.0 (1)	1.3 (79)	1.3 (79)	0.1 (10)	1.4 (144)	1.5 (154)	0.0 (0)	0.0 (0)	0.1 (6)	1.8 (187)	1.8 (194)
JUL	0.0 (3)	0.0 (0)	0.0 (0)	0.3 (18)	0.3 (18)	0.0 (4)	1.4 (147)	1.4 (151)	0.0 (0)	0.0 (0)	0.0 (5)	1.5 (160)	1.6 (164)
AUG	0.1 (8)	0.0 (0)	0.0 (0)	0.1 (8)	0.1 (8)	0.1 (13)	1.4 (147)	1.5 (160)	0.0 (0)	0.0 (0)	0.1 (10)	1.4 (149)	1.5 (159)
SEP	0.3 (20)	0.0 (1)	0.0 (0)	0.2 (15)	0.3 (16)	0.3 (33)	0.9 (99)	1.2 (132)	0.0 (1)	0.0 (1)	0.2 (16)	1.2 (122)	1.3 (139)
Total	14.1 (862)	0.6 (37)	2.8 (171)	10.8 (662)	14.2 (870)	13.1 (1387)	8.9 (936)	22.0 (2323)	0.4 (45)	0.4 (40)	6.3 (661)	15.3 (1617)	22.4 (2363)

Wet Period

	Pre-Development ²					Post-Development with PDEs ³							
	INFLOW	OUTFLOW				INFLOW			OUTFLOW				
	Precipitation	Runoff to Blind Cyn	GW Flows	ET	Total	Precipitation	Irrigation	Total	Runoff to Blind Cyn	Stored Runoff for Irrigation ⁴	GW Flows ⁵	ET	Total
OCT	0.3 (20)	0.0 (1)	0.0 (0)	0.2 (14)	0.2 (15)	0.3 (32)	0.6 (61)	0.9 (94)	0.0 (1)	0.0 (1)	0.1 (9)	0.9 (94)	1.0 (104)
NOV	1.4 (87)	0.1 (3)	0.0 (0)	0.5 (31)	0.6 (35)	1.3 (140)	0.2 (26)	1.6 (167)	0.0 (4)	0.0 (3)	0.4 (42)	0.8 (81)	1.2 (130)
DEC	2.0 (120)	0.1 (6)	0.3 (17)	0.6 (38)	1.0 (61)	1.8 (194)	0.2 (19)	2.0 (213)	0.1 (8)	0.0 (4)	0.9 (90)	0.7 (74)	1.7 (175)
JAN	5.9 (358)	0.3 (20)	2.6 (160)	0.8 (49)	3.7 (228)	5.5 (578)	0.2 (16)	5.6 (594)	0.4 (38)	0.0 (5)	3.4 (357)	0.8 (86)	4.6 (486)
FEB	5.7 (351)	0.3 (20)	3.2 (195)	1.0 (63)	4.6 (278)	5.4 (566)	0.1 (13)	5.5 (578)	0.4 (42)	0.0 (4)	3.7 (387)	1.0 (106)	5.1 (540)
MAR	5.0 (304)	0.3 (16)	3.2 (197)	1.6 (95)	5.0 (307)	4.6 (491)	0.5 (49)	5.1 (539)	0.3 (27)	0.1 (14)	3.6 (379)	1.5 (157)	5.5 (577)
APR	1.1 (67)	0.0 (2)	0.5 (28)	1.9 (118)	2.4 (149)	1.0 (108)	0.9 (96)	1.9 (203)	0.0 (2)	0.1 (12)	0.7 (74)	1.8 (193)	2.3 (281)
MAY	0.4 (25)	0.0 (1)	0.1 (9)	2.2 (132)	2.3 (141)	0.4 (40)	1.2 (122)	1.5 (162)	0.0 (1)	0.0 (3)	0.3 (31)	2.0 (213)	2.3 (248)
JUN	0.2 (14)	0.0 (0)	0.0 (1)	1.7 (102)	1.7 (104)	0.2 (22)	1.4 (144)	1.6 (166)	0.0 (0)	0.0 (0)	0.1 (13)	1.9 (200)	2.0 (213)
JUL	0.0 (1)	0.0 (0)	0.0 (1)	0.5 (28)	0.5 (29)	0.0 (1)	1.4 (147)	1.4 (149)	0.0 (0)	0.0 (0)	0.1 (5)	1.6 (166)	1.6 (171)
AUG	0.1 (5)	0.0 (0)	0.0 (0)	0.1 (8)	0.1 (9)	0.1 (8)	1.4 (147)	1.5 (156)	0.0 (0)	0.0 (0)	0.1 (10)	1.4 (152)	1.5 (162)
SEP	0.4 (24)	0.0 (1)	0.0 (0)	0.2 (15)	0.3 (16)	0.4 (38)	0.9 (98)	1.3 (136)	0.0 (1)	0.0 (1)	0.1 (16)	1.2 (124)	1.3 (142)
Total	22.5 (1375)	1.1 (70)	10.0 (609)	11.3 (693)	22.4 (1372)	21.0 (2218)	8.9 (939)	29.9 (3157)	1.2 (123)	0.4 (47)	13.4 (1412)	15.6 (1647)	30.6 (3229)

Notes:

- (1) This includes the catchments within the Blind Canyon Sub-basin. Due to the grading plans of PA8, the total tributary area increases from pre to post development conditions.
- (2) The pre-development catchments include Catchments 64, 65, 66 and 67.
- (3) The post-development catchments include Catchments 64, 65, 66, PA8-4 through PA8-11, and PA8-13.
- (4) The storage volume was approximated at 20 acre-ft. This exceeds the URQM sizing criteria (WEF, 1998), which was calculated to be 8.1 acre-ft.
- (5) Includes GW flows from Blind Canyon, GW flows from development areas in Talega Canyon, and treated surface runoff discharged to infiltration facilities.

Blind Canyon (Alternative B-9) -Total Sub-basin¹

Pre-dev area = 734 acres

Post-dev area = 1173 acres

All Years

	Pre-Development ²					Post-Development with PDFs ³								
	INFLOW	OUTFLOW				INFLOW			OUTFLOW					
	Precipitation	Runoff to Blind Cyn	GW Flows	ET	Total	Precipitation	Irrigation	Total	Runoff to Blind Cyn	Runoff to Talega Cyn	Stored Runoff for Irrigation ⁴	GW Flows ⁵	ET	Total
OCT	0.3 (20)	0.0 (1)	0.0 (0)	0.3 (20)	0.3 (20)	0.3 (31)	0.7 (68)	1.0 (99)	0.0 (0)	0.0 (0)	0.0 (4)	0.1 (8)	1.1 (103)	1.2 (116)
NOV	1.7 (105)	0.1 (4)	0.0 (3)	0.6 (37)	0.7 (44)	1.6 (161)	0.3 (29)	1.9 (190)	0.0 (3)	0.0 (3)	0.1 (13)	0.5 (45)	0.9 (84)	1.5 (148)
DEC	2.3 (138)	0.1 (6)	0.3 (16)	0.7 (42)	1.0 (64)	2.2 (212)	0.2 (21)	2.4 (233)	0.1 (5)	0.1 (5)	0.1 (13)	1.0 (100)	0.7 (70)	2.0 (194)
JAN	3.8 (233)	0.2 (12)	1.3 (77)	0.8 (49)	2.3 (138)	3.7 (357)	0.2 (18)	3.8 (375)	0.1 (12)	0.1 (10)	0.1 (13)	2.0 (195)	0.8 (76)	3.1 (307)
FEB	3.5 (215)	0.2 (11)	1.7 (101)	1.0 (63)	2.9 (175)	3.4 (330)	0.1 (14)	3.5 (344)	0.1 (11)	0.1 (10)	0.1 (11)	2.0 (198)	0.9 (91)	3.3 (321)
MAR	2.9 (179)	0.1 (8)	1.5 (90)	1.5 (93)	3.1 (191)	2.8 (274)	0.6 (56)	3.4 (330)	0.1 (7)	0.1 (6)	0.2 (19)	1.7 (171)	1.4 (135)	3.5 (338)
APR	1.2 (73)	0.0 (3)	0.3 (19)	1.9 (117)	2.3 (138)	1.1 (111)	1.1 (107)	2.2 (218)	0.0 (1)	0.0 (1)	0.2 (17)	0.6 (56)	1.7 (169)	2.5 (244)
MAY	0.4 (24)	0.0 (1)	0.1 (4)	2.0 (123)	2.1 (127)	0.4 (37)	1.4 (137)	1.8 (174)	0.0 (0)	0.0 (0)	0.1 (10)	0.2 (20)	1.9 (189)	2.3 (220)
JUN	0.1 (9)	0.0 (0)	0.0 (1)	1.4 (86)	1.4 (87)	0.1 (13)	1.7 (163)	1.8 (176)	0.0 (0)	0.0 (0)	0.0 (2)	0.1 (9)	2.0 (192)	2.1 (203)
JUL	0.0 (2)	0.0 (0)	0.0 (0)	0.3 (21)	0.4 (22)	0.0 (3)	1.7 (166)	1.7 (169)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (6)	1.8 (180)	1.9 (186)
AUG	0.1 (7)	0.0 (0)	0.0 (0)	0.1 (8)	0.1 (9)	0.1 (11)	1.6 (153)	1.7 (164)	0.0 (0)	0.0 (0)	0.0 (1)	0.1 (8)	1.6 (157)	1.7 (166)
SEP	0.4 (22)	0.0 (1)	0.0 (0)	0.2 (15)	0.3 (16)	0.3 (33)	1.1 (110)	1.5 (143)	0.0 (0)	0.0 (0)	0.0 (3)	0.1 (12)	1.3 (131)	1.5 (147)
Total	16.8 (1026)	0.8 (48)	5.1 (311)	11.0 (672)	16.9 (1031)	16.1 (1573)	10.7 (1042)	26.8 (2616)	0.4 (41)	0.4 (36)	1.1 (106)	8.5 (829)	16.1 (1577)	26.5 (2589)

Dry Period

	Pre-Development ²					Post-Development with PDFs ³								
	INFLOW	OUTFLOW				INFLOW			OUTFLOW					
	Precipitation	Runoff to Blind Cyn	GW Flows	ET	Total	Precipitation	Irrigation	Total	Runoff to Blind Cyn	Runoff to Talega Cyn	Stored Runoff for Irrigation ⁴	GW Flows ⁵	ET	Total
OCT	0.3 (20)	0.0 (1)	0.0 (0)	0.4 (22)	0.4 (23)	0.3 (31)	0.7 (68)	1.0 (99)	0.0 (0)	0.0 (0)	0.0 (4)	0.1 (9)	1.1 (104)	1.2 (118)
NOV	1.9 (113)	0.1 (5)	0.1 (4)	0.6 (39)	0.8 (48)	1.8 (174)	0.3 (29)	2.1 (203)	0.0 (3)	0.0 (3)	0.1 (14)	0.5 (48)	0.9 (86)	1.6 (155)
DEC	2.4 (147)	0.1 (7)	0.2 (15)	0.7 (44)	1.1 (65)	2.3 (225)	0.2 (21)	2.5 (246)	0.1 (6)	0.1 (6)	0.1 (13)	1.1 (106)	0.7 (72)	2.1 (202)
JAN	2.8 (174)	0.1 (9)	0.6 (38)	0.8 (49)	1.6 (95)	2.7 (266)	0.2 (18)	2.9 (284)	0.1 (8)	0.1 (7)	0.1 (13)	1.4 (134)	0.8 (75)	2.4 (236)
FEB	2.5 (151)	0.1 (7)	0.9 (57)	1.0 (62)	2.1 (126)	2.4 (232)	0.1 (14)	2.5 (246)	0.1 (6)	0.1 (5)	0.1 (11)	1.3 (125)	0.9 (90)	2.4 (237)
MAR	2.0 (119)	0.1 (5)	0.7 (40)	1.5 (92)	2.2 (136)	1.9 (183)	0.6 (57)	2.5 (240)	0.0 (3)	0.0 (2)	0.2 (19)	0.9 (92)	1.4 (133)	2.5 (249)
APR	1.2 (75)	0.0 (3)	0.2 (15)	1.9 (116)	2.2 (134)	1.2 (116)	1.1 (106)	2.3 (222)	0.0 (1)	0.0 (1)	0.2 (16)	0.5 (53)	1.7 (169)	2.5 (240)
MAY	0.4 (24)	0.0 (1)	0.0 (1)	1.9 (118)	2.0 (120)	0.4 (37)	1.4 (136)	1.8 (173)	0.0 (0)	0.0 (0)	0.1 (10)	0.2 (16)	1.9 (189)	2.2 (216)
JUN	0.1 (6)	0.0 (0)	0.0 (1)	1.3 (79)	1.3 (79)	0.1 (9)	1.7 (163)	1.8 (172)	0.0 (0)	0.0 (0)	0.0 (1)	0.1 (8)	1.9 (190)	2.0 (199)
JUL	0.0 (3)	0.0 (0)	0.0 (0)	0.3 (18)	0.3 (18)	0.0 (4)	1.7 (166)	1.7 (170)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (6)	1.8 (177)	1.9 (184)
AUG	0.1 (8)	0.0 (0)	0.0 (0)	0.1 (8)	0.1 (8)	0.1 (8)	1.6 (153)	1.7 (165)	0.0 (0)	0.0 (0)	0.0 (1)	0.1 (8)	1.6 (157)	1.7 (166)
SEP	0.3 (20)	0.0 (1)	0.0 (0)	0.2 (15)	0.3 (16)	0.3 (31)	1.1 (110)	1.5 (142)	0.0 (0)	0.0 (0)	0.0 (3)	0.1 (12)	1.3 (131)	1.5 (147)
Total	14.1 (862)	0.6 (37)	2.8 (171)	10.8 (662)	14.2 (870)	13.5 (1320)	10.7 (1041)	24.2 (2362)	0.3 (27)	0.3 (26)	1.1 (105)	6.3 (618)	16.1 (1572)	24.0 (2349)

Wet Period

	Pre-Development ²					Post-Development with PDFs ³								
	INFLOW	OUTFLOW				INFLOW			OUTFLOW					
	Precipitation	Runoff to Blind Cyn	GW Flows	ET	Total	Precipitation	Irrigation	Total	Runoff to Blind Cyn	Runoff to Talega Cyn	Stored Runoff for Irrigation ⁴	GW Flows ⁵	ET	Total
OCT	0.3 (20)	0.0 (1)	0.0 (0)	0.2 (14)	0.2 (15)	0.3 (31)	0.7 (68)	1.0 (99)	0.0 (0)	0.0 (0)	0.0 (3)	0.1 (6)	1.0 (101)	1.1 (111)
NOV	1.4 (87)	0.1 (3)	0.0 (0)	0.5 (31)	0.6 (35)	1.4 (133)	0.3 (30)	1.7 (163)	0.0 (3)	0.0 (2)	0.1 (10)	0.4 (37)	0.8 (81)	1.4 (133)
DEC	2.0 (120)	0.1 (6)	0.3 (17)	0.6 (38)	1.0 (61)	1.9 (185)	0.2 (21)	2.1 (206)	0.0 (5)	0.0 (4)	0.1 (12)	0.9 (86)	0.7 (68)	1.8 (176)
JAN	5.9 (358)	0.3 (20)	2.6 (160)	0.8 (49)	3.7 (228)	5.6 (549)	0.2 (18)	5.8 (567)	0.2 (21)	0.2 (18)	0.1 (14)	3.3 (326)	0.8 (78)	4.7 (456)
FEB	5.7 (351)	0.3 (20)	3.2 (195)	1.0 (63)	4.6 (278)	5.5 (538)	0.1 (14)	5.7 (552)	0.2 (22)	0.2 (19)	0.1 (11)	3.6 (352)	1.0 (94)	5.1 (499)
MAR	5.0 (304)	0.3 (16)	3.2 (197)	1.6 (95)	5.0 (307)	4.8 (467)	0.6 (55)	5.3 (522)	0.2 (17)	0.1 (14)	0.2 (20)	3.4 (337)	1.4 (138)	5.4 (526)
APR	1.1 (67)	0.0 (2)	0.5 (28)	1.9 (118)	2.4 (149)	1.0 (102)	1.1 (108)	2.2 (211)	0.0 (1)	0.0 (1)	0.2 (19)	0.7 (64)	1.7 (168)	2.6 (252)
MAY	0.4 (25)	0.0 (1)	0.1 (9)	2.2 (132)	2.3 (141)	0.4 (38)	1.4 (138)	1.8 (176)	0.0 (1)	0.0 (0)	0.1 (9)	0.3 (29)	1.9 (190)	2.3 (229)
JUN	0.2 (14)	0.0 (0)	0.0 (1)	1.7 (102)	1.7 (104)	0.2 (21)	1.7 (163)	1.9 (184)	0.0 (0)	0.0 (0)	0.0 (4)	0.1 (13)	2.0 (196)	2.2 (213)
JUL	0.0 (1)	0.0 (0)	0.0 (1)	0.5 (28)	0.5 (29)	0.0 (1)	1.7 (166)	1.7 (167)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (7)	1.9 (184)	2.0 (191)
AUG	0.1 (5)	0.0 (0)	0.0 (0)	0.1 (8)	0.1 (9)	0.1 (8)	1.6 (153)	1.6 (161)	0.0 (0)	0.0 (0)	0.0 (1)	0.1 (7)	1.6 (158)	1.7 (166)
SEP	0.4 (24)	0.0 (1)	0.0 (0)	0.2 (15)	0.3 (16)	0.4 (36)	1.1 (110)	1.5 (146)	0.0 (0)	0.0 (0)	0.0 (4)	0.1 (11)	1.3 (131)	1.5 (147)
Total	22.5 (1375)	1.1 (70)	10.0 (609)	11.3 (693)	22.4 (1372)	21.6 (2110)	10.7 (1045)	32.3 (3155)	0.7 (71)	0.6 (59)	1.1 (107)	13.0 (1275)	16.2 (1587)	31.7 (3099)

Notes:

- (1) This includes the catchments within the Blind Canyon Sub-basin. Due to the grading plans of PA8, the total tributary area increases from pre to post development conditions.
- (2) The pre-development catchments include Catchments 64, 65, 66 and 67.
- (3) The post-development catchments include Catchments 64, 65, 66, 67 and T-1.
- (4) The storage volume was approximated at 20 acre-ft. This exceeds the URQM sizing criteria (WEF, 1998), which was calculated to be 8.1 acre-ft.
- (5) Includes GW flows from Blind Canyon, GW flows from development areas in Talega Canyon, and discharges to infiltration facilities.

Talega (Alternative B-4) - Total Sub-basin¹

Pre-dev area = 473 acres²

Post-dev area = ~0 acres³

All Years

	Pre-Development ²					Post-Development with PDFs ³				
	INFLOW	OUTFLOW				INFLOW			OUTFLOW	
	Precipitation	Runoff to Talega Crk ⁴	GW Outflow ⁵	ET	Total	Precipitation	Irrigation	Total	Runoff to Talega Crk ⁶	Total
OCT	0.3 (12)	0.0 (1)	0.0 (0)	0.3 (11)	0.3 (11)	0.3 (16)	0.7 (35)	0.9 (50)	0.0 (0)	0.0 (0)
NOV	1.5 (60)	0.1 (4)	0.0 (1)	0.5 (19)	0.6 (24)	1.5 (82)	0.3 (15)	1.8 (96)	0.0 (2)	0.0 (2)
DEC	2.0 (79)	0.1 (5)	0.2 (7)	0.5 (21)	0.8 (33)	2.0 (108)	0.2 (11)	2.2 (119)	0.1 (4)	0.1 (4)
JAN	3.4 (133)	0.2 (8)	1.0 (40)	0.6 (25)	1.8 (73)	3.4 (182)	0.2 (9)	3.6 (190)	0.1 (7)	0.1 (7)
FEB	3.1 (123)	0.2 (7)	1.4 (57)	0.8 (31)	2.4 (95)	3.2 (168)	0.1 (7)	3.3 (175)	0.1 (7)	0.1 (7)
MAR	2.6 (102)	0.2 (6)	1.3 (52)	1.2 (46)	2.6 (104)	2.6 (139)	0.5 (27)	3.1 (166)	0.1 (4)	0.1 (4)
APR	1.1 (41)	0.1 (2)	0.3 (12)	1.5 (58)	1.8 (71)	1.1 (57)	1.0 (51)	2.0 (108)	0.0 (1)	0.0 (1)
MAY	0.4 (14)	0.0 (1)	0.1 (3)	1.6 (65)	1.7 (68)	0.4 (19)	1.2 (66)	1.6 (85)	0.0 (0)	0.0 (0)
JUN	0.1 (5)	0.0 (0)	0.0 (0)	1.6 (61)	1.6 (62)	0.1 (7)	1.5 (79)	1.6 (86)	0.0 (0)	0.0 (0)
JUL	0.0 (1)	0.0 (0)	0.0 (0)	0.8 (33)	0.8 (33)	0.0 (2)	1.5 (81)	1.6 (83)	0.0 (0)	0.0 (0)
AUG	0.1 (4)	0.0 (0)	0.0 (0)	0.1 (5)	0.1 (6)	0.1 (5)	1.5 (81)	1.6 (87)	0.0 (0)	0.0 (0)
SEP	0.3 (12)	0.0 (1)	0.0 (0)	0.2 (8)	0.2 (9)	0.3 (17)	1.0 (55)	1.4 (72)	0.0 (0)	0.0 (0)
Total	14.9 (586)	0.9 (35)	4.4 (172)	9.7 (383)	14.9 (589)	15.1 (801)	9.7 (517)	24.8 (1317)	0.5 (25)	0.5 (25)

Dry Period

	Pre-Development ²					Post-Development with PDFs ³				
	INFLOW	OUTFLOW				INFLOW			OUTFLOW	
	Precipitation	Runoff to Talega Crk ⁴	GW Outflow ⁵	ET	Total	Precipitation	Irrigation	Total	Runoff to Talega Crk ⁶	Total
OCT	0.3 (12)	0.0 (1)	0.0 (0)	0.3 (12)	0.3 (13)	0.3 (16)	0.6 (34)	0.9 (50)	0.0 (0)	0.0 (0)
NOV	1.6 (65)	0.1 (4)	0.0 (2)	0.5 (20)	0.7 (26)	1.7 (88)	0.3 (14)	1.9 (103)	0.0 (2)	0.0 (2)
DEC	2.1 (84)	0.1 (5)	0.2 (7)	0.6 (22)	0.9 (34)	2.2 (115)	0.2 (11)	2.4 (125)	0.1 (4)	0.1 (4)
JAN	2.5 (99)	0.2 (6)	0.5 (18)	0.6 (25)	1.2 (49)	2.5 (135)	0.2 (9)	2.7 (144)	0.1 (5)	0.1 (5)
FEB	2.2 (86)	0.1 (5)	0.8 (31)	0.8 (31)	1.7 (67)	2.2 (118)	0.1 (7)	2.3 (125)	0.1 (4)	0.1 (4)
MAR	1.7 (68)	0.1 (4)	0.6 (23)	1.2 (45)	1.8 (72)	1.8 (93)	0.5 (27)	2.3 (120)	0.0 (2)	0.0 (2)
APR	1.1 (43)	0.1 (2)	0.2 (9)	1.5 (58)	1.7 (69)	1.1 (59)	1.0 (51)	2.1 (110)	0.0 (1)	0.0 (1)
MAY	0.3 (14)	0.0 (1)	0.0 (1)	1.6 (65)	1.7 (66)	0.4 (19)	1.2 (66)	1.6 (85)	0.0 (0)	0.0 (0)
JUN	0.1 (4)	0.0 (0)	0.0 (0)	1.5 (59)	1.5 (59)	0.1 (5)	1.5 (79)	1.6 (84)	0.0 (0)	0.0 (0)
JUL	0.0 (1)	0.0 (0)	0.0 (0)	0.7 (28)	0.7 (28)	0.0 (2)	1.5 (81)	1.6 (83)	0.0 (0)	0.0 (0)
AUG	0.1 (5)	0.0 (0)	0.0 (0)	0.1 (4)	0.1 (4)	0.1 (6)	1.5 (81)	1.6 (87)	0.0 (0)	0.0 (0)
SEP	0.3 (12)	0.0 (1)	0.0 (0)	0.2 (8)	0.2 (9)	0.3 (16)	1.0 (55)	1.3 (71)	0.0 (0)	0.0 (0)
Total	12.5 (491)	0.7 (28)	2.3 (91)	9.5 (376)	12.6 (496)	12.6 (671)	9.7 (516)	22.3 (1187)	0.3 (18)	0.3 (18)

Wet Period

	Pre-Development ²					Post-Development with PDFs ³				
	INFLOW	OUTFLOW				INFLOW			OUTFLOW	
	Precipitation	Runoff to Talega Crk ⁴	GW Outflow ⁵	ET	Total	Precipitation	Irrigation	Total	Runoff to Talega Crk ⁶	Total
OCT	0.3 (12)	0.0 (1)	0.0 (0)	0.2 (8)	0.2 (9)	0.3 (16)	0.7 (35)	0.9 (50)	0.0 (0)	0.0 (0)
NOV	1.3 (50)	0.1 (3)	0.0 (0)	0.4 (16)	0.5 (19)	1.3 (68)	0.3 (15)	1.6 (83)	0.0 (2)	0.0 (2)
DEC	1.8 (69)	0.1 (4)	0.2 (8)	0.5 (19)	0.8 (31)	1.8 (94)	0.2 (11)	2.0 (105)	0.1 (3)	0.1 (3)
JAN	5.2 (205)	0.3 (13)	2.2 (86)	0.6 (25)	3.1 (124)	5.3 (280)	0.2 (9)	5.4 (289)	0.2 (12)	0.2 (12)
FEB	5.1 (201)	0.3 (12)	2.8 (110)	0.8 (32)	3.9 (154)	5.2 (274)	0.1 (7)	5.3 (281)	0.3 (14)	0.3 (14)
MAR	4.4 (174)	0.3 (10)	2.9 (113)	1.2 (47)	4.3 (170)	4.5 (238)	0.5 (26)	5.0 (264)	0.2 (10)	0.2 (10)
APR	1.0 (38)	0.1 (2)	0.4 (17)	1.4 (57)	1.9 (77)	1.0 (52)	1.0 (52)	2.0 (104)	0.0 (0)	0.0 (0)
MAY	0.4 (14)	0.0 (1)	0.2 (6)	1.7 (65)	1.8 (72)	0.4 (19)	1.3 (67)	1.6 (86)	0.0 (0)	0.0 (0)
JUN	0.2 (8)	0.0 (0)	0.0 (1)	1.7 (67)	1.7 (68)	0.2 (11)	1.5 (79)	1.7 (90)	0.0 (0)	0.0 (0)
JUL	0.0 (0)	0.0 (0)	0.0 (0)	1.1 (44)	1.1 (44)	0.0 (1)	1.5 (81)	1.5 (82)	0.0 (0)	0.0 (0)
AUG	0.1 (3)	0.0 (0)	0.0 (0)	0.2 (7)	0.2 (8)	0.1 (4)	1.5 (81)	1.6 (85)	0.0 (0)	0.0 (0)
SEP	0.3 (14)	0.0 (1)	0.0 (0)	0.2 (8)	0.2 (9)	0.3 (19)	1.0 (55)	1.4 (73)	0.0 (0)	0.0 (0)
Total	20.0 (788)	1.2 (47)	8.7 (343)	10.0 (396)	19.9 (786)	20.2 (1075)	9.7 (518)	30.0 (1593)	0.8 (42)	0.8 (42)

Notes:

- (1) This includes the catchments that are impacted by the development of PA8 south of Blind Canyon Creek. Due to the grading plan of PA8, the area tributary of Talega Creek will decrease from 5376 acres in the pre-development conditions to 4898 acres in the post-development conditions.

- (2) For pre-development conditions, the area of 473 acres represents only that area which drains to Talega Canyon such as Catchments 3, 4, 5, 6, 7, 8, 9a, and 9b.
- (3) For post-development conditions, the graded area all drains to a common collection point. The majority of runoff from this area is diverted to Blind Canyon.
- (4) Because only the development areas are modeled, runoff may not represent actual volumes that reach the stream. Surface runoff could infiltrate in open space areas between the development area and the stream.
- (5) Because only the development areas are modeled, GW flows may not represent actual volumes that reach the stream. Some GW flows could be lost to ET, or GW flows could be greater if there is significant infiltration in the open space areas.
- (6) Assumes that all flows from the development Catchments PA8-3, PA8-4, PA8-5, PA8-6, PA8-7, PA8-8, and PA8-9 are collected in a pipe. There would be a flow duration basin that would divert a portion of the flows to Talega Creek (via a swale), while excess flows would be diverted to a detention basin located in Blind Canyon. All flows diverted to Blind Canyon would be treated in the detention basin. Effluent discharge from the detention basin would be routed to an infiltration basin located near the confluence of Gabino and Blind Creeks.

Talega (Alternative B-9) - Total Sub-basin¹

Pre-dev area = 473 acres²

Post-dev area = ~0 acres³

All Years

	Pre-Development ²					Post-Development with PDFs ³				
	INFLOW	OUTFLOW				INFLOW			OUTFLOW	
	Precipitation	Runoff to Telega Crk ⁴	GW Outflow ⁵	ET	Total	Precipitation	Irrigation	Total	Runoff to Telega Crk ⁴	Total
OCT	0.3 (10)	0.0 (1)	0.0 (0)	0.3 (9)	0.3 (10)	0.3 (10)	0.4 (15)	0.7 (25)	0.0 (0)	0.0 (0)
NOV	1.5 (54)	0.1 (4)	0.0 (1)	0.5 (17)	0.6 (22)	1.5 (54)	0.2 (6)	1.7 (60)	0.1 (3)	0.1 (3)
DEC	2.0 (71)	0.1 (5)	0.2 (6)	0.5 (19)	0.9 (30)	2.0 (71)	0.1 (5)	2.1 (75)	0.1 (5)	0.1 (5)
JAN	3.4 (119)	0.2 (9)	1.0 (35)	0.6 (22)	1.9 (66)	3.4 (119)	0.1 (4)	3.5 (123)	0.3 (10)	0.3 (10)
FEB	3.1 (110)	0.2 (8)	1.4 (51)	0.8 (28)	2.4 (86)	3.1 (110)	0.1 (3)	3.2 (113)	0.3 (10)	0.3 (10)
MAR	2.6 (92)	0.2 (6)	1.3 (46)	1.2 (41)	2.6 (93)	2.6 (91)	0.3 (12)	2.9 (103)	0.2 (6)	0.2 (6)
APR	1.1 (37)	0.1 (2)	0.3 (10)	1.4 (51)	1.8 (64)	1.1 (37)	0.6 (22)	1.7 (59)	0.0 (1)	0.0 (1)
MAY	0.4 (12)	0.0 (1)	0.1 (2)	1.6 (57)	1.7 (60)	0.4 (12)	0.8 (28)	1.2 (41)	0.0 (0)	0.0 (0)
JUN	0.1 (4)	0.0 (0)	0.0 (0)	1.5 (55)	1.6 (55)	0.1 (4)	1.0 (34)	1.1 (38)	0.0 (0)	0.0 (0)
JUL	0.0 (1)	0.0 (0)	0.0 (0)	0.8 (30)	0.9 (30)	0.0 (1)	1.0 (35)	1.0 (36)	0.0 (0)	0.0 (0)
AUG	0.1 (4)	0.0 (0)	0.0 (0)	0.1 (4)	0.1 (5)	0.1 (4)	0.9 (33)	1.0 (36)	0.0 (0)	0.0 (0)
SEP	0.3 (11)	0.0 (1)	0.0 (0)	0.2 (7)	0.2 (8)	0.3 (11)	0.7 (24)	1.0 (35)	0.0 (0)	0.0 (0)
Total	14.9 (526)	1.0 (36)	4.3 (153)	9.6 (340)	15.0 (529)	14.9 (525)	6.3 (220)	21.2 (745)	1.0 (36)	1.0 (36)

Dry Period

	Pre-Development ²					Post-Development with PDFs ³				
	INFLOW	OUTFLOW				INFLOW			OUTFLOW	
	Precipitation	Runoff to Telega Crk ⁴	GW Outflow ⁵	ET	Total	Precipitation	Irrigation	Total	Runoff to Telega Crk ⁴	Total
OCT	0.3 (10)	0.0 (1)	0.0 (0)	0.3 (11)	0.3 (11)	0.3 (10)	0.4 (15)	0.7 (25)	0.0 (0)	0.0 (0)
NOV	1.6 (58)	0.1 (4)	0.0 (1)	0.5 (18)	0.7 (24)	1.6 (58)	0.2 (6)	1.8 (64)	0.1 (3)	0.1 (3)
DEC	2.1 (75)	0.2 (5)	0.2 (6)	0.6 (20)	0.9 (31)	2.1 (75)	0.1 (5)	2.3 (80)	0.2 (6)	0.2 (6)
JAN	2.5 (89)	0.2 (6)	0.4 (16)	0.6 (22)	1.2 (44)	2.5 (89)	0.1 (4)	2.6 (92)	0.2 (7)	0.2 (7)
FEB	2.2 (77)	0.2 (5)	0.8 (28)	0.8 (27)	1.7 (61)	2.2 (77)	0.1 (3)	2.3 (80)	0.2 (5)	0.2 (5)
MAR	1.7 (61)	0.1 (4)	0.6 (21)	1.1 (40)	1.8 (65)	1.7 (61)	0.3 (12)	2.1 (73)	0.1 (2)	0.1 (2)
APR	1.1 (39)	0.1 (2)	0.2 (8)	1.4 (51)	1.7 (61)	1.1 (38)	0.6 (22)	1.7 (60)	0.0 (1)	0.0 (1)
MAY	0.3 (12)	0.0 (1)	0.0 (1)	1.6 (57)	1.7 (59)	0.3 (12)	0.8 (28)	1.2 (41)	0.0 (0)	0.0 (0)
JUN	0.1 (3)	0.0 (0)	0.0 (0)	1.5 (52)	1.5 (53)	0.1 (3)	1.0 (34)	1.1 (37)	0.0 (0)	0.0 (0)
JUL	0.0 (1)	0.0 (0)	0.0 (0)	0.7 (26)	0.7 (26)	0.0 (1)	1.0 (35)	1.0 (36)	0.0 (0)	0.0 (0)
AUG	0.1 (4)	0.0 (0)	0.0 (0)	0.1 (3)	0.1 (4)	0.1 (4)	0.9 (33)	1.0 (37)	0.0 (0)	0.0 (0)
SEP	0.3 (10)	0.0 (1)	0.0 (0)	0.2 (7)	0.2 (8)	0.3 (10)	0.7 (24)	1.0 (34)	0.0 (0)	0.0 (0)
Total	12.5 (441)	0.8 (30)	2.3 (81)	9.5 (334)	12.6 (445)	12.5 (440)	6.2 (220)	18.8 (660)	0.7 (26)	0.7 (26)

Wet Period

	Pre-Development ²					Post-Development with PDFs ³				
	INFLOW	OUTFLOW				INFLOW			OUTFLOW	
	Precipitation	Runoff to Telega Crk ⁴	GW Outflow ⁵	ET	Total	Precipitation	Irrigation	Total	Runoff to Telega Crk ⁴	Total
OCT	0.3 (10)	0.0 (1)	0.0 (0)	0.2 (7)	0.2 (8)	0.3 (10)	0.4 (15)	0.7 (25)	0.0 (0)	0.0 (0)
NOV	1.3 (45)	0.1 (3)	0.0 (0)	0.4 (14)	0.5 (17)	1.3 (45)	0.2 (6)	1.5 (51)	0.1 (2)	0.1 (2)
DEC	1.8 (62)	0.1 (4)	0.2 (7)	0.5 (17)	0.8 (29)	1.8 (62)	0.1 (5)	1.9 (67)	0.1 (4)	0.1 (4)
JAN	5.2 (184)	0.4 (13)	2.2 (77)	0.6 (22)	3.2 (112)	5.2 (183)	0.1 (4)	5.3 (187)	0.5 (18)	0.5 (18)
FEB	5.1 (180)	0.4 (13)	2.8 (98)	0.8 (28)	3.9 (139)	5.1 (180)	0.1 (3)	5.2 (183)	0.5 (19)	0.5 (19)
MAR	4.4 (156)	0.3 (11)	2.9 (101)	1.2 (42)	4.4 (153)	4.4 (156)	0.3 (11)	4.8 (167)	0.4 (14)	0.4 (14)
APR	1.0 (34)	0.1 (2)	0.4 (16)	1.4 (51)	1.9 (68)	1.0 (34)	0.6 (22)	1.6 (57)	0.0 (1)	0.0 (1)
MAY	0.4 (13)	0.0 (1)	0.2 (5)	1.6 (58)	1.8 (64)	0.4 (13)	0.8 (29)	1.2 (41)	0.0 (0)	0.0 (0)
JUN	0.2 (7)	0.0 (0)	0.0 (1)	1.7 (59)	1.7 (61)	0.2 (7)	1.0 (34)	1.2 (41)	0.0 (0)	0.0 (0)
JUL	0.0 (0)	0.0 (0)	0.0 (0)	1.1 (39)	1.1 (39)	0.0 (0)	1.0 (35)	1.0 (35)	0.0 (0)	0.0 (0)
AUG	0.1 (3)	0.0 (0)	0.0 (0)	0.2 (6)	0.2 (6)	0.1 (3)	0.9 (33)	1.0 (35)	0.0 (0)	0.0 (0)
SEP	0.3 (12)	0.0 (1)	0.0 (0)	0.2 (7)	0.2 (8)	0.3 (12)	0.7 (24)	1.0 (36)	0.0 (0)	0.0 (0)
Total	20.1 (707)	1.4 (50)	8.7 (305)	9.9 (350)	20.0 (705)	20.1 (705)	6.3 (220)	26.3 (925)	1.7 (59)	1.7 (59)

Notes:

- (1) This includes the catchments that are impacted by the development of PA8 south of Blind Canyon Creek. Due to the grading plan of PA8, the area tributary of Talega Creek will decrease from 5376 acres in the pre-development conditions to 4898 acres in the post-development conditions.

- (2) For pre-development conditions, the area of 473 acres represents only that area which drains to Talega Canyon.
- (3) Because there was no grading plan available for B9, it is assumed that all runoff generated from the developed portions of the Talega Sub-basin is diverted to Blind Canyon.
- (4) Because only the development areas are modeled, runoff may not represent actual volumes that reach the stream. Surface runoff could infiltrate in open space areas between the development area and the stream.
- (5) Because only the development areas are modeled, GW flows may not represent actual volumes that reach the stream. Some GW flows could be lost to ET, or GW flows could be greater if there is significant infiltration in the open space areas.
- (6) Assumes that all flows from the development Catchment T-1 are collected in a pipe. There would be a flow duration basin that would divert a portion of the flows to Talega Creek (via a swale), while excess flows would be diverted to an infiltration basin located in Blind Canyon. A portion of the flows generated from Catchments 64, 65, 66 and 67 would be used to match flow duration in Blind Creek while excess flow would be diverted to an infiltration basin located in Blind Canyon. Effluent discharge from the detention basin would be routed to an infiltration basin located near the confluence of Gabino and Blind Creeks.

Verdugo (Alternative B-9)¹

Pre-dev area = 1514 acres

Post-dev area = 1576 acres

All Years

	Pre-Development ²					Post-Development with PDFs ³						
	INFLOW	OUTFLOW				INFLOW			OUTFLOW			
	Precipitation	Runoff to Verdugo Cyn	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to Verdugo Cyn	GW Outflow	ET	Total
OCT	0.3 (43)	0.0 (0)	0.2 (26)	0.3 (41)	0.5 (66)	0.3 (45)	0.5 (66)	0.8 (110)	0.0 (0)	0.7 (87)	0.5 (67)	1.2 (155)
NOV	1.8 (222)	0.0 (0)	0.2 (22)	0.5 (69)	0.7 (92)	1.8 (232)	0.2 (28)	2.0 (259)	0.0 (0)	0.7 (88)	0.6 (78)	1.3 (166)
DEC	2.3 (293)	0.0 (0)	0.3 (38)	0.6 (81)	0.9 (118)	2.3 (306)	0.2 (20)	2.5 (327)	0.0 (0)	0.9 (116)	0.6 (81)	1.5 (197)
JAN	3.9 (493)	0.0 (4)	0.8 (97)	0.7 (90)	1.5 (191)	3.9 (515)	0.1 (17)	4.1 (532)	0.0 (6)	1.4 (185)	0.7 (88)	2.1 (280)
FEB	3.6 (456)	0.1 (18)	1.3 (164)	0.9 (115)	2.4 (297)	3.6 (476)	0.1 (13)	3.7 (489)	0.1 (19)	1.8 (237)	0.8 (111)	2.8 (367)
MAR	3.0 (378)	0.0 (5)	1.8 (224)	1.4 (172)	3.2 (401)	3.0 (395)	0.4 (51)	3.4 (446)	0.0 (5)	2.3 (296)	1.3 (165)	3.5 (466)
APR	1.2 (154)	0.0 (1)	1.2 (151)	1.7 (219)	2.9 (371)	1.2 (160)	0.7 (97)	2.0 (258)	0.0 (1)	1.6 (206)	1.6 (210)	3.2 (417)
MAY	0.4 (51)	0.0 (0)	0.8 (95)	1.7 (213)	2.4 (309)	0.4 (53)	1.0 (126)	1.4 (179)	0.0 (0)	1.2 (152)	1.6 (212)	2.8 (365)
JUN	0.1 (18)	0.0 (0)	0.5 (63)	0.8 (95)	1.3 (159)	0.1 (19)	1.1 (150)	1.3 (169)	0.0 (0)	1.0 (128)	1.0 (133)	2.0 (261)
JUL	0.0 (4)	0.0 (0)	0.4 (49)	0.1 (9)	0.5 (58)	0.0 (4)	1.2 (155)	1.2 (159)	0.0 (0)	0.9 (125)	0.5 (71)	1.5 (196)
AUG	0.1 (15)	0.0 (0)	0.3 (38)	0.1 (12)	0.4 (50)	0.1 (15)	1.1 (144)	1.2 (160)	0.0 (0)	0.9 (119)	0.5 (69)	1.4 (188)
SEP	0.4 (46)	0.0 (0)	0.2 (30)	0.2 (30)	0.5 (60)	0.4 (48)	0.8 (105)	1.2 (152)	0.0 (0)	0.8 (105)	0.5 (71)	1.3 (176)
Total	17.2 (2173)	0.2 (28)	7.9 (997)	9.1 (1145)	17.2 (2171)	17.3 (2268)	7.4 (971)	24.7 (3239)	0.2 (31)	14.0 (1844)	10.3 (1358)	24.6 (3234)

Dry Period

	Pre-Development ²					Post-Development with PDFs ³						
	INFLOW	OUTFLOW				INFLOW			OUTFLOW			
	Precipitation	Runoff to Verdugo Cyn	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to Verdugo Cyn	GW Outflow	ET	Total
OCT	0.3 (43)	0.0 (0)	0.2 (22)	0.4 (45)	0.5 (67)	0.3 (45)	0.5 (65)	0.8 (110)	0.0 (0)	0.6 (84)	0.5 (71)	1.2 (155)
NOV	1.9 (240)	0.0 (0)	0.2 (20)	0.6 (73)	0.7 (93)	1.9 (250)	0.2 (28)	2.1 (278)	0.0 (0)	0.7 (89)	0.6 (81)	1.3 (170)
DEC	2.5 (311)	0.0 (0)	0.3 (35)	0.7 (83)	0.9 (118)	2.5 (325)	0.2 (20)	2.6 (345)	0.0 (0)	0.9 (116)	0.6 (83)	1.5 (199)
JAN	2.9 (368)	0.0 (0)	0.5 (61)	0.7 (91)	1.2 (151)	2.9 (384)	0.1 (17)	3.1 (401)	0.0 (1)	1.1 (142)	0.7 (88)	1.8 (232)
FEB	2.5 (320)	0.0 (5)	0.8 (97)	0.9 (116)	1.7 (217)	2.5 (334)	0.1 (13)	2.6 (346)	0.0 (5)	1.2 (163)	0.8 (112)	2.1 (280)
MAR	2.0 (253)	0.0 (0)	1.0 (126)	1.4 (174)	2.4 (300)	2.0 (263)	0.4 (52)	2.4 (315)	0.0 (0)	1.4 (184)	1.3 (167)	2.7 (351)
APR	1.3 (160)	0.0 (1)	0.8 (97)	1.7 (219)	2.5 (316)	1.3 (167)	0.7 (97)	2.0 (263)	0.0 (1)	1.1 (150)	1.6 (210)	2.8 (361)
MAY	0.4 (50)	0.0 (0)	0.5 (64)	1.7 (218)	2.2 (282)	0.4 (53)	1.0 (125)	1.4 (178)	0.0 (0)	0.9 (122)	1.6 (216)	2.6 (338)
JUN	0.1 (13)	0.0 (0)	0.4 (45)	0.8 (101)	1.2 (146)	0.1 (14)	1.1 (150)	1.2 (164)	0.0 (0)	0.8 (110)	1.0 (138)	1.9 (248)
JUL	0.0 (5)	0.0 (0)	0.3 (36)	0.1 (11)	0.4 (47)	0.0 (6)	1.2 (155)	1.2 (160)	0.0 (0)	0.9 (113)	0.6 (73)	1.4 (186)
AUG	0.1 (17)	0.0 (0)	0.2 (29)	0.1 (13)	0.3 (42)	0.1 (17)	1.1 (144)	1.2 (161)	0.0 (0)	0.8 (111)	0.5 (70)	1.4 (181)
SEP	0.3 (43)	0.0 (0)	0.2 (23)	0.2 (31)	0.4 (54)	0.3 (45)	0.8 (105)	1.1 (150)	0.0 (0)	0.8 (100)	0.5 (72)	1.3 (171)
Total	14.4 (1822)	0.0 (6)	5.2 (654)	9.3 (1175)	14.5 (1834)	14.5 (1901)	7.4 (970)	21.9 (2871)	0.1 (7)	11.3 (1485)	10.5 (1380)	21.9 (2873)

Wet Period

	Pre-Development ²					Post-Development with PDFs ³						
	INFLOW	OUTFLOW				INFLOW			OUTFLOW			
	Precipitation	Runoff to Verdugo Cyn	GW Outflow	ET	Total	Precipitation	Irrigation	Total	Runoff to Verdugo Cyn	GW Outflow	ET	Total
OCT	0.3 (43)	0.0 (0)	0.3 (34)	0.2 (31)	0.5 (65)	0.3 (45)	0.5 (66)	0.8 (110)	0.0 (0)	0.7 (94)	0.5 (60)	1.2 (154)
NOV	1.5 (184)	0.0 (0)	0.2 (28)	0.5 (61)	0.7 (89)	1.5 (193)	0.2 (28)	1.7 (221)	0.0 (0)	0.7 (88)	0.5 (72)	1.2 (160)
DEC	2.0 (255)	0.0 (0)	0.3 (43)	0.6 (75)	0.9 (118)	2.0 (267)	0.2 (21)	2.2 (287)	0.0 (0)	0.9 (115)	0.6 (77)	1.5 (192)
JAN	6.0 (759)	0.1 (13)	1.4 (174)	0.7 (89)	2.2 (275)	6.0 (793)	0.1 (17)	6.2 (810)	0.1 (16)	2.1 (277)	0.7 (88)	2.9 (381)
FEB	5.9 (743)	0.4 (47)	2.4 (306)	0.9 (113)	3.7 (466)	5.9 (776)	0.1 (13)	6.0 (789)	0.4 (47)	3.0 (393)	0.8 (111)	4.2 (550)
MAR	5.1 (645)	0.1 (15)	3.4 (432)	1.3 (167)	4.9 (614)	5.1 (673)	0.4 (50)	5.5 (723)	0.1 (15)	4.1 (532)	1.2 (161)	5.4 (709)
APR	1.1 (141)	0.0 (1)	2.1 (265)	1.7 (220)	3.9 (486)	1.1 (148)	0.7 (98)	1.9 (246)	0.0 (1)	2.5 (325)	1.6 (210)	4.1 (536)
MAY	0.4 (52)	0.0 (0)	1.3 (162)	1.6 (203)	2.9 (365)	0.4 (54)	1.0 (127)	1.4 (181)	0.0 (1)	1.6 (216)	1.6 (205)	3.2 (422)
JUN	0.2 (29)	0.0 (0)	0.8 (103)	0.7 (82)	1.5 (185)	0.2 (30)	1.1 (151)	1.4 (181)	0.0 (0)	1.3 (165)	0.9 (123)	2.2 (288)
JUL	0.0 (2)	0.0 (0)	0.6 (77)	0.0 (3)	0.6 (80)	0.0 (2)	1.2 (155)	1.2 (156)	0.0 (0)	1.1 (149)	0.5 (67)	1.6 (216)
AUG	0.1 (11)	0.0 (0)	0.5 (58)	0.1 (11)	0.5 (69)	0.1 (11)	1.1 (144)	1.2 (156)	0.0 (0)	1.0 (135)	0.5 (68)	1.5 (203)
SEP	0.4 (50)	0.0 (0)	0.4 (45)	0.2 (28)	0.6 (72)	0.4 (53)	0.8 (104)	1.2 (157)	0.0 (0)	0.9 (116)	0.5 (69)	1.4 (185)
Total	23.1 (2916)	0.6 (77)	13.7 (1725)	8.6 (1083)	22.9 (2885)	23.2 (3045)	7.4 (973)	30.6 (4019)	0.6 (81)	19.8 (2606)	10.0 (1312)	30.4 (3998)

Notes:

- (1) This includes catchments of the Verdugo Sub-basin that are entirely in the Rancho Mission Viejo Boundary. Due to the grading plans of PA4, the total tributary area increases from pre to post development conditions.
- (2) The pre-development catchments include Catchments 120, 121, 122, 123, 124, and 125.
- (3) The post-development catchments include Catchments 120, 121a, 121b, 121c, 122, 123, 124, 125, PA4-4, and PA4-5.