

Lower San Pedro Watershed Assessment Project

WPF #00-109

Task 5.5

Comprehensive Watershed Alternatives for Action Plan

Appendix A

Appendix A. San Pedro River Riparian Data Summary.

Reach Number	Reach Length	Flow Regime	Bank Cutting	Vegetation Type
1	1.75	Ephemeral	Significant	Saltcedar
2	0.14	Ephemeral	Almost Continuous	Cottonwood/Willow/Saltcedar
3	0.51	Ephemeral	Significant	Saltcedar
4	0.54	Subflow	Some, intermittently	Cottonwood/Willow/Saltcedar
5	0.37	Perennial	Some, intermittently	Cottonwood/Willow
6A	0.20	Perennial	Some, intermittently	Cottonwood/Willow/Saltcedar
6B	0.53	Perennial	Some, intermittently	Cottonwood/Willow
6C	0.38	Perennial	Little or None	Cottonwood/Willow
7A	0.84	Perennial	Some, intermittently	Saltcedar
7B	1.31	Perennial	Some, intermittently	Cottonwood/Willow
7C	1.19	Perennial	Significant	Saltcedar
8	1.16	Perennial/Intermittent	Little or None	Cottonwood/Willow/Saltcedar
9A	0.58	Ephemeral	Some, intermittently	Saltcedar
9B	0.69	Ephemeral/Subflow	Some, intermittently	Cottonwood/Willow/Saltcedar
10	0.92	Subflow	Little or None	Cottonwood/Willow/Saltcedar
11	0.96	Subflow	Some, intermittently	Saltcedar
12	1.23	Ephemeral/Subflow	Significant	Saltcedar
13	1.52	Ephemeral/Subflow	Some, intermittently	Saltcedar
14	0.96	Ephemeral	Significant	Saltcedar
15	0.38	Ephemeral	Almost Continuous	Saltcedar
16	1.11	Ephemeral/Subflow	Significant	Cottonwood/Willow/Saltcedar
17	1.25	Subflow	Some, intermittently	Cottonwood/Willow
18	0.96	Subflow	Significant	Cottonwood/Willow
19	0.42	Perennial/Intermittent	Significant	Cottonwood/Willow
20	0.95	Perennial	Some, intermittently	Cottonwood/Willow
21	0.61	Perennial	Significant	Cottonwood/Willow
22	0.79	Perennial	Some, intermittently	Cottonwood/Willow/Saltcedar
23	0.61	Perennial	Some, intermittently	Cottonwood/Willow
24	0.82	Perennial	Some, intermittently	Cottonwood/Willow
25	1.01	Perennial	Almost Continuous	Seepwillow/Desertbroom/Deergrass
26	3.85	Ephemeral	Some, intermittently	Mixed Shrubs Non-riparian
27	1.10	Ephemeral	Significant	Burrobrush
28	1.46	Ephemeral	Significant	Burrobrush
29	0.96	Ephemeral	Almost Continuous	Saltcedar
30	1.34	Perennial/Intermittent	Little or None	Cottonwood/Willow
31	0.78	Ephemeral	Some, intermittently	Saltcedar
32	0.57	Perennial/Intermittent	Significant	Cottonwood/Willow/Saltcedar
33	0.63	Perennial/Intermittent	Some, intermittently	Seepwillow/Desertbroom/Deergrass
34	0.78	Ephemeral	Some, intermittently	Saltcedar
35	3.26	Ephemeral	Significant	Saltcedar
Total	39.41			

Appendix A. NEQ Tributaries Riparian Data Summary.

Reach Number	Reach Length	Flow Regime	Bank Cutting	Vegetation Type
Soza Wash				
1	0.76	Ephemeral	Significant	Burrobrush
2	2.17	Ephemeral	Little or None	Mixed Shrubs Non-riparian
3	1.12	Ephemeral	Some, intermittently	Mixed Shrubs Non-riparian
4	0.97	Ephemeral	Some, intermittently	Mixed Shrubs Non-riparian
5	0.96	Ephemeral	Some, intermittently	Ash/Hackberry/Walnut
6X	3.77	Ephemeral/Subflow	Some, intermittently	Ash/Hackberry/Walnut
7	1.86	Ephemeral	Some, intermittently	Ash/Hackberry/Walnut
8X	0.93	Ephemeral	Some, intermittently	Ash/Hackberry/Walnut
9X	0.44	Ephemeral	Some, intermittently	Cottonwood/Willow
10X	0.70	Ephemeral/Subflow	Some, intermittently	Ash/Hackberry/Walnut
11X	1.00	Ephemeral	Some, intermittently	Ash/Hackberry/Walnut
12X	0.78	Ephemeral	Some, intermittently	Mixed Shrubs Non-riparian
Total	15.46			
Aguja Canyon				
1	0.78	Ephemeral	Significant	Mixed Shrubs Non-riparian
2	0.84	Ephemeral	Some, intermittently	Mixed Shrubs Non-riparian
3	0.75	Ephemeral	Little or None	Mixed Shrubs Non-riparian
4	2.45	Ephemeral	Some, intermittently	Mixed Shrubs Non-riparian
5	0.83	Ephemeral	Significant	Mixed Shrubs Non-riparian
6X	0.33	Ephemeral	Some, intermittently	Mixed Shrubs Non-riparian
7	1.30	Ephemeral	Some, intermittently	Mixed Shrubs Non-riparian
8X	0.45	Ephemeral	Some, intermittently	Ash/Hackberry/Walnut
9X	0.96	Ephemeral	Some, intermittently	Mixed Shrubs Non-riparian
Total	8.69			
Redfield Canyon				
1	0.91	Ephemeral	Significant	Burrobrush
2	1.56	Ephemeral	Little or None	Burrobrush
3	3.71	Ephemeral	Some, intermittently	Burrobrush
4	1.28	Ephemeral/Subflow	Little or None	Burrobrush
5	3.22	Perennial/Intermittent	Little or None	Sycamore
6X	4.09	Perennial/Intermittent	Little or None	Cottonwood/Willow
7X	1.49	Subflow	Little or None	Ash/Hackberry/Walnut
8X	2.56	Subflow	Little or None	Ash/Hackberry/Walnut
9X	2.47	Perennial/Intermittent	Little or None	Sycamore
10X	3.90	Perennial/Intermittent	Little or None	Sycamore
11X	0.75	Ephemeral/Subflow	Little or None	Ash/Hackberry/Walnut
Total	25.94			
Markham Canyon				
1	0.23	Ephemeral	Almost continuous	Mixed Shrubs Non-riparian
2	1.04	Ephemeral	Some, intermittently	Mixed Shrubs Non-riparian
3	3.33	Ephemeral	Some, intermittently	Mixed Shrubs Non-riparian
4	2.32	Ephemeral	Little or none	Mixed Shrubs Non-riparian
Total	6.92			

X = Data estimated from satellite imagery and/or aerial photography.

Reach Number	Reach Length	Flow Regime	Bank Cutting	Vegetation Type
Bollen Wash				
1	0.71	Ephemeral	Almost continuous	Mixed Shrubs Non-riparian
2	5.75	Ephemeral	Significant	Mixed Shrubs Non-riparian
3X	1.53	Ephemeral	Significant	Mixed Shrubs Non-riparian
4X	1.80	Ephemeral	Significant	Mixed Shrubs Non-riparian
5X	1.99	Ephemeral	Significant	Mixed Shrubs Non-riparian
6X	0.47	Ephemeral	Significant	Ash/Hackberry/Walnut
7X	0.61	Ephemeral	Significant	Ash/Hackberry/Walnut
Total	12.86			
Rhodes Canyon				
1	0.43	Ephemeral	Almost continuous	Mixed Shrubs Non-riparian
2	0.50	Ephemeral	Almost continuous	Mixed Shrubs Non-riparian
3X	2.94	Ephemeral	Almost continuous	Mixed Shrubs Non-riparian
4	1.13	Ephemeral	Almost continuous	Mixed Shrubs Non-riparian
5	0.80	Ephemeral	Almost continuous	Mixed Shrubs Non-riparian
6	1.92	Ephemeral	Almost continuous	Mixed Shrubs Non-riparian
7X	1.34	Ephemeral	Almost continuous	Mixed Shrubs Non-riparian
8X	0.98	Ephemeral	Almost continuous	Mixed Shrubs Non-riparian
9X	1.05	Ephemeral	Almost continuous	Ash/Hackberry/Walnut
Total	11.09			
Peters Wash				
1	0.34	Ephemeral	Some, intermittently	Mixed Shrubs Non-riparian
2	0.49	Ephemeral	Some, intermittently	Mixed Shrubs Non-riparian
3	0.63	Ephemeral	Some, intermittently	Mixed Shrubs Non-riparian
4X	0.94	Ephemeral	Significant	Mixed Shrubs Non-riparian
5X	3.53	Ephemeral	Significant	Mixed Shrubs Non-riparian
6	1.22	Ephemeral	Significant	Mixed Shrubs Non-riparian
7	0.94	Ephemeral	Almost continuous	Mixed Shrubs Non-riparian
8	1.40	Ephemeral	Almost continuous	Ash/Hackberry/Walnut
Total	9.49			

Appendix A. NWQ Tributaries Riparian Data Summary.

Reach Number	Reach Length	Flow Regime	Bank Cutting	Vegetation Type
Buehman Canyon				
1	0.62	Ephemeral	Almost continuous	Mixed Shrubs Non-riparian
2	0.81	Ephemeral/Subflow	Significant	Burrobrush
3	0.33	Ephemeral/Subflow	Some, intermittently	Burrobrush
4	2.02	Ephemeral/Subflow	Little or none	Ash/Hackberry/Walnut
5X	1.31	Perennial/Intermittent	Some, intermittently	Sycamore
6X	3.69	Perennial/Intermittent	Some, intermittently	Sycamore
7X	1.15	Ephemeral/Subflow	Significant	Sycamore
8	1.06	Perennial/Intermittent	Some, intermittently	Cottonwood/Willow
9X	1.09	Perennial/Intermittent	Significant	Sycamore
10X	1.53	Subflow	Significant	Sycamore
11X	0.68	Ephemeral	Some, intermittently	Oak/Conifer
12X	0.50	Ephemeral	Little or none	Oak/Conifer
Total	14.79			
Edgar Canyon				
1	0.18	Ephemeral	Significant	Mixed Shrubs Non-riparian
2	0.69	Ephemeral	Significant	Mixed Shrubs Non-riparian
3	0.58	Ephemeral	Some, intermittently	Burrobrush
4X	1.75	Ephemeral	Significant	Burrobrush
5	2.78	Perennial/Intermittent	Significant	Cottonwood/Willow
6X	1.47	Ephemeral	Significant	Ash/Hackberry/Walnut
7X	2.85	Perennial/Intermittent	Some, intermittently	Sycamore
8X	1.66	Perennial/Intermittent	Some, intermittently	Sycamore
9X	2.15	Perennial/Intermittent	Some, intermittently	Sycamore
10X	1.04	Ephemeral/Subflow	Some, intermittently	Oak/Conifer
11X	0.96	Ephemeral	Little or none	Oak/Conifer
Total	16.11			
Peck Canyon				
1	0.75	Ephemeral	Almost continuous	Mixed Shrub Non-riparian
2	0.26	Ephemeral	Some, intermittently	Mixed Shrub Non-riparian
3	1.79	Ephemeral	Significant	Mixed Shrub Non-riparian
4	1.34	Ephemeral	Some, intermittently	Mixed Shrub Non-riparian
5	2.36	Ephemeral	Significant	Mixed Shrub Non-riparian
6	1.42	Ephemeral	Significant	Mixed Shrub Non-riparian
7	3.01	Ephemeral	Significant	Mixed Shrub Non-riparian
8X	0.99	Ephemeral	Some, intermittently	Mixed Shrub Non-riparian
9X	0.30	Ephemeral	Some, intermittently	Mixed Shrub Non-riparian
Total	12.22			
Alder Canyon				
1	0.51	Ephemeral	Almost continuous	Burrobrush
2	2.46	Ephemeral	Almost continuous	Burrobrush
3	2.72	Ephemeral/Subflow	Significant	Burrobrush
4X	3.66	Ephemeral	Significant	Mixed Shrubs Non-riparian
5	1.74	Ephemeral/Subflow	Significant	Mixed Shrubs Non-riparian
6	2.31	Perennial/Intermittent	Some, intermittently	Sycamore
7X	2.04	Perennial/Intermittent	Some, intermittently	Sycamore
8X	1.10	Perennial/Intermittent	Some, intermittently	Sycamore
9X	1.21	Ephemeral/Subflow	Some, intermittently	Sycamore
10X	0.90	Ephemeral	Little or none	Oak/Conifer
Total	18.65			

Appendix A. SEQ Tributaries Riparian Data Summary.

Reach Number	Reach Length	Flow Regime	Bank Cutting	Vegetation Type
Kelsey Canyon				
1	0.79	Ephemeral	Almost Continuous	Burrobrush
2	0.57	Ephemeral	Some, intermittently	Burrobrush
3	0.91	Ephemeral	Some, intermittently	Mixed Shrub Non-riparian
4	0.52	Ephemeral	Some, intermittently	Ash/Hackberry/Walnut
8	0.77	Subflow	Significant	Seepwillow/Desertbroom/Deergrass
9	0.84	Perennial/Intermittent	Significant	Seepwillow/Desertbroom/Deergrass
10	1.00	Perennial/Intermittent	Significant	Ash/Hackberry/Walnut
11	0.85	Ephemeral	Almost Continuous	Seepwillow/Desertbroom/Deergrass
12	0.68	Perennial/Intermittent	Significant	Cottonwood/Willow
13	0.72	Ephemeral/Subflow	Almost Continuous	Seepwillow/Desertbroom/Deergrass
14	0.80	Ephemeral	Almost Continuous	Seepwillow/Desertbroom/Deergrass
15	0.30	Ephemeral/Subflow	Little or None	Seepwillow/Desertbroom/Deergrass
16	0.61	Ephemeral/Subflow	Significant	Seepwillow/Desertbroom/Deergrass
17	0.48	Ephemeral	Some, intermittently	Mixed Shrub Non-riparian
18	1.46	Ephemeral	Significant	Ash/Hackberry/Walnut
19	1.21	Ephemeral	Significant	Mixed Shrub Non-riparian
20	0.98	Ephemeral	Significant	Mixed Shrub Non-riparian
21	3.25	Ephemeral	Little or None	Mixed Shrub Non-riparian
22	1.67	Ephemeral	Little or None	Mixed Shrub Non-riparian
Total	18.41			
Teran Wash				
1	0.74	Ephemeral	Almost Continuous	Burrobrush
2	0.31	Ephemeral	Almost Continuous	Burrobrush
3	1.22	Ephemeral	Some, intermittently	Mixed Shrub Non-riparian
4	0.85	Ephemeral	Significant	Mixed Shrub Non-riparian
5	1.39	Ephemeral	Some, intermittently	Mixed Shrub Non-riparian
6	0.18	Ephemeral/Subflow	Some, intermittently	Seepwillow/Desertbroom/Deergrass
7	0.34	Ephemeral	Significant	Seepwillow/Desertbroom/Deergrass
8	0.51	Ephemeral	Little or None	Mixed Shrub Non-riparian
9	0.67	Ephemeral	Significant	Mixed Shrub Non-riparian
10	1.57	Ephemeral	Some, intermittently	Mixed Shrub Non-riparian
Total	7.78			
Sierra Blanca				
1	0.33	Ephemeral	Significant	Mixed Shrub Non-riparian
2	0.35	Ephemeral	Almost Continuous	Mixed Shrub Non-riparian
3	2.30	Ephemeral	Some, intermittently	Mixed Shrub Non-riparian
4	0.94	Ephemeral	Almost Continuous	Mixed Shrub Non-riparian
5	1.63	Ephemeral	Little or None	Seepwillow/Desertbroom/Deergrass
6	0.90	Ephemeral	Some, intermittently	Seepwillow/Desertbroom/Deergrass
7	0.97	Ephemeral	Little or None	Seepwillow/Desertbroom/Deergrass
8	2.78	Ephemeral	Little or None	Seepwillow/Desertbroom/Deergrass
Total	10.20			
Pool Wash				
1	0.26	Ephemeral	Almost Continuous	Mixed Shrub Non-riparian
2	1.29	Ephemeral	Some, intermittently	Mixed Shrub Non-riparian
3	1.64	Ephemeral	Some, intermittently	Mixed Shrub Non-riparian
4	1.51	Ephemeral	Some, intermittently	Mixed Shrub Non-riparian
5	1.84	Ephemeral	Little or None	Mixed Shrub Non-riparian
Total	6.54			

Reach Number	Reach Length	Flow Regime	Bank Cutting	Vegetation Type
Hot Springs Canyon				
1	1.12	Ephemeral	Almost Continuous	Mixed Shrub Non-riparian
2	1.94	Ephemeral	Significant	Mixed Shrub Non-riparian
4X	0.58	Ephemeral	Significant	Burrobrush
5X	0.85	Ephemeral	Significant	Burrobrush
6X	0.61	Ephemeral	Some, intermittently	Sycamore
7X	0.37	Subflow	Some, intermittently	Sycamore
8X	0.57	Subflow	Some, intermittently	Sycamore
9X	1.24	Perennial	Some, intermittently	Sycamore
10	0.88	Perennial	Some, intermittently	Sycamore
11X	0.57	Subflow	Some, intermittently	Sycamore
12	1.35	Perennial	Some, intermittently	Sycamore
13X	0.42	Subflow	Some, intermittently	Sycamore
14X	0.86	Perennial	Some, intermittently	Sycamore
15X	1.52	Perennial	Some, intermittently	Sycamore
16X	0.84	Perennial	Some, intermittently	Cottonwood/Willow
17	0.56	Ephemeral	Significant	Burrobrush
18	0.89	Ephemeral	Some, intermittently	Burrobrush
19	2.33	Ephemeral	Almost Continuous	Mixed Shrub Non-riparian
20	1.40	Ephemeral	Significant	Ash/Hackberry/Walnut
21	0.68	Ephemeral	Some, intermittently	Mixed Shrub Non-riparian
22	0.48	Ephemeral	Some, intermittently	Mixed Shrub Non-riparian
23	1.23	Ephemeral	Some, intermittently	Mixed Shrub Non-riparian
Total	21.29			

Appendix A. SWQ Tributaries Riparian Data Summary.

Reach Number	Reach Length	Flow Regime	Bank Cutting	Vegetation Type
Redrock Creek				
1	0.54	Ephemeral	Significant	Burrobrush
2	0.75	Ephemeral	Some,intermittently	Mixed Shrubs Non-riparian
3	1.82	Ephemeral	Some,intermittently	Mixed Shrubs Non-riparian
4	1.39	Ephemeral	Some,intermittently	Mixed Shrubs Non-riparian
5	0.64	Ephemeral	Some,intermittently	Mixed Shrubs Non-riparian
6	1.06	Ephemeral	Significant	Ash/Hackberry/Walnut
7	0.55	Ephemeral	Significant	Mixed Shrubs Non-riparian
8	0.63	Ephemeral	Some,intermittently	Seepwillow/Desertbroom/Deergrass
9	1.18	Ephemeral	Little or None	Seepwillow/Desertbroom/Deergrass
Total	8.56			
Paige Canyon				
1	1.84	Ephemeral	Almost Continuously	Burrobrush
2	0.71	Ephemeral/Subflow	Some,intermittently	Burrobrush
3	1.84	Ephemeral/Subflow	Some,intermittently	Burrobrush
4	1.41	Ephemeral/Subflow	Almost Continuously	Sycamore
5X	0.91	Ephemeral/Subflow	Almost Continuously	Sycamore
6X	0.59	Ephemeral/Subflow	Almost Continuously	Sycamore
7X	0.42	Ephemeral/Subflow	Almost Continuously	Sycamore
8X	0.95	Ephemeral/Subflow	Almost Continuously	Sycamore
9X	1.53	Ephemeral/Subflow	Almost Continuously	Sycamore
10	0.96	Ephemeral/Subflow	Some,intermittently	Sycamore
11X	0.42	Ephemeral/Subflow	Significant	Sycamore
12X	0.90	Ephemeral/Subflow	Significant	Sycamore
13	0.60	Ephemeral/Subflow	Significant	Sycamore
14	1.36	Ephemeral/Subflow	Some,intermittently	Sycamore
15	0.42	Ephemeral	Some,intermittently	Sycamore
16	1.14	Ephemeral	Almost Continuously	Oak/Conifer
Total	16.00			
Roble Canyon				
1	0.37	Ephemeral	Almost Continuously	Burrobrush
2	0.82	Ephemeral	Some,intermittently	Mixed Shrubs Non-riparian
3	0.83	Ephemeral	Little or None	Mixed Shrubs Non-riparian
4	1.16	Ephemeral	Some,intermittently	Mixed Shrubs Non-riparian
5	0.50	Ephemeral	Significant	Mixed Shrubs Non-riparian
6	1.07	Ephemeral	Some,intermittently	Mixed Shrubs Non-riparian
7	0.97	Ephemeral/Subflow	Almost Continuously	Seepwillow/Desertbroom/Deergrass
Total	5.72			
Soza Canyon				
1	0.23	Ephemeral/Subflow	Some,intermittently	Cottonwood/Willow
2	0.62	Ephemeral/Subflow	Some,intermittently	Cottonwood/Willow
3	0.75	Ephemeral/Subflow	Some,intermittently	Burrobrush
4	0.54	Ephemeral	Some,intermittently	Cottonwood/Willow
5	1.05	Ephemeral	Little or None	Mixed Shrubs Non-riparian
6	1.66	Ephemeral	Almost Continuously	Mixed Shrubs Non-riparian
7	1.70	Ephemeral/Subflow	Little or None	Seepwillow/Desertbroom/Deergrass
8	0.62	Ephemeral	Some,intermittently	Ash/Hackberry/Walnut
9	2.25	Ephemeral/Subflow	Significant	Seepwillow/Desertbroom/Deergrass
Total	9.42			