

Appendix G

Dominant Process Indicators and Reach Summary Data Sheets

Content:

- Main Stem Reach Data
- Tributary Reach Data

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Appendix G: South Salt Creek Main Stem Reach Data

Reach Name	SCR005	SCR010	SCR015	SCR020	SCR025	SCR025R005	SCR035
Channel Length	2063	6478	3922	6626	6997	2788	7862
Valley Length	1485	4099	1441	2952	4255	1854	4252
Reach Sinuosity	1.389226	1.580385	2.721721	2.24458	1.644418	1.503776	1.849012
Dominant Process	Widening	Widening	Widening	Widening	Widening	Widening	Widening
Indicators of Dynamic Equilibrium							
No persistent scour or erosion features	-	-	-	-	-	-	-
Bankfull shelf along one or both banks	-	-	-	-	-	-	-
Gradually sloping banks	-	-	-	-	-	-	-
Herbaceous vegetation growing at or near the water surface	-	-	-	-	-	-	-
Well established woody vegetation on healed failure surfaces	-	-	-	-	-	-	-
Vegetated consolidated bars	-	-	-	-	-	-	-
Consolidated bed material	-	-	-	-	-	-	-
Imbricated rock bed material	-	-	-	-	-	-	-
De facto grade controls reinforcing knickpoints	-	-	-	-	-	-	-
Healthy riparian corridor and canopy cover	-	-	-	-	-	-	-
Indicators of Incision							
V" or "U" shaped channel cross section	TRUE	-	-	-	-	-	-
Persistent scouring on both banks toe to mid slope	TRUE	-	-	-	TRUE	-	TRUE
Wedge failures along both banks	TRUE	-	-	-	TRUE	-	TRUE
Steep near vertical banks	TRUE	-	-	-	TRUE	-	TRUE
Perched bankfull floodplain or abandoned terraces	TRUE	-	-	-	-	-	-
Knickpoints and knickzones occurring in channel profile	-	-	-	-	-	-	TRUE
Steep bed slope	-	-	-	-	-	-	-
Scoured bed material	-	-	-	-	-	-	-
Consolidated bed material Incision	-	-	-	-	-	-	-
Frequent large woody debris jams	-	-	-	-	-	-	-
Lower limit of woody vegetation high with exposed roots	TRUE	-	-	-	TRUE	-	-
Undercut or perched infrastructure	TRUE	-	-	-	-	-	-
Indicators of Widening							
Wide "U" shaped channel cross section	TRUE	-	-	-	TRUE	-	TRUE
Increase in cross sectional area	-	-	-	-	-	-	-
Increase in channel width and decrease in bank height from upstream	-	-	-	-	-	-	-
Scouring or bank failures along both banks	TRUE	-	-	-	TRUE	-	TRUE
Persistent scouring on both banks mid to upper slope	-	-	-	-	-	-	-
Residual failure material at bank toes	TRUE	-	-	-	TRUE	-	TRUE
Unconsolidated depositional bed material widening	-	-	-	-	TRUE	-	TRUE
Depositional center bars	-	-	-	-	TRUE	-	TRUE
Unconsolidated depositional sediment bars	-	-	-	-	-	-	TRUE
Reinforced knickpoints and knickzones	-	-	-	-	-	-	TRUE
Large woody debris jams	-	-	-	-	TRUE	-	TRUE
Lower limit of woody vegetation high with exposed roots	TRUE	-	-	-	TRUE	-	TRUE
Numerous surfing or overhanging trees	TRUE	-	-	-	TRUE	-	TRUE
Indicators of Plan Form Adjustment							
Cutbanks with active scour lines opposite of advancing bar formations	-	-	-	-	-	-	-
Circular failures along alternating banks or at the outside of banks	-	-	-	-	-	-	-
Alternating pattern of scour and deposition	-	-	-	-	-	-	-
Bar formations are consolidated with an unconsolidated leading edge	-	-	-	-	-	-	-
Bar material unsorted with fines downstream	-	-	-	-	-	-	-
Bar is irregularly shaped and more than 1/3 across the channel	-	-	-	-	-	-	-
Poorly sorted bed material	-	-	-	-	-	-	-
Notes - numbers in the notes rows are data codes corresponding to the observed indicators. these codes are displayed as "TRUE" in the above indicators of dynamic equilibrium	-	Note 6: debris jam, Note 7: oxbow cutoff recently. only 2ft grade differential.	-	Note 9: break reach here, downstream widening combine with previous., upstream is incision	-	Note 3: tributary confluence, Note 4: mainstem, revise reach lines per aerial. Note 5: old oxbow.	Note 14: 2ft knickpoint at grade control, Note 15: debris jam with beaver. Note 12: Pipeline: 1000' DS of Homestead Expressway: Field verified no project:

Field Observations and Data Input

Appendix G: South Salt Creek Main Stem Reach Data

Reach Name	SCR040	SCR045	SCR050	SCR055	SCR060	SCR065	SCR070
Channel Length	5583	9439	6236	8901	5684	6024	5242
Valley Length	2668	4252	2514	4559	2605	1522	2914
Reach Sinuosity	2.092579	2.219897	2.480509	1.952402	2.181958	3.95795	1.798902
Dominant Process	Widening	Widening	Widening	Widening	Widening	Widening	Widening
Indicators of Dynamic Equilibrium							
No persistent scour or erosion features	-	-	-	-	-	-	-
Bankfull shelf along one or both banks	-	-	-	-	-	-	-
Gradually sloping banks	-	-	-	-	-	-	-
Herbaceous vegetation growing at or near the water surface	-	-	-	-	-	-	-
Well established woody vegetation on healed failure surfaces	-	-	-	-	-	-	-
Vegetated consolidated bars	-	-	-	-	-	-	-
Consolidated bed material	-	-	-	-	-	-	-
Imbricated rock bed material	-	-	-	-	-	-	-
De facto grade controls reinforcing knickpoints	-	-	-	-	-	-	-
Healthy riparian corridor and canopy cover	-	-	-	-	-	-	-
Indicators of Incision							
V" or "U" shaped channel cross section	-	-	-	-	-	-	-
Persistent scouring on both banks toe to mid slope	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
Wedge failures along both banks	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
Steep near vertical banks	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
Perched bankfull floodplain or abandoned terraces	-	-	-	-	-	-	-
Knickpoints and knickzones occurring in channel profile	-	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
Steep bed slope	-	-	-	-	-	-	-
Scoured bed material	-	-	-	-	-	-	-
Consolidated bed material incision	-	-	-	-	-	-	-
Frequent large woody debris jams	TRUE	-	-	-	-	-	-
Lower limit of woody vegetation high with exposed roots	TRUE	TRUE	-	-	TRUE	TRUE	TRUE
Undercut or perched infrastructure	-	-	-	-	-	-	-
Indicators of Widening							
Wide "U" shaped channel cross section	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
Increase in cross sectional area	-	-	-	-	-	-	-
Increase in channel width and decrease in bank height from upstream	-	-	-	-	-	-	-
Scouring or bank failures along both banks	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
Persistent scouring on both banks mid to upper slope	-	-	-	-	-	-	-
Residual failure material at bank toes	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
Unconsolidated depositional bed material widening	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
Depositional center bars	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
Unconsolidated depositional sediment bars	TRUE	-	-	-	-	-	-
Reinforced knickpoints and knickzones	TRUE	-	-	-	TRUE	TRUE	-
Large woody debris jams	TRUE	TRUE	TRUE	TRUE	-	TRUE	-
Lower limit of woody vegetation high with exposed roots	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
Numerous surfing or overhanging trees	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
Indicators of Plan Form Adjustment							
Cutbanks with active scour lines opposite of advancing bar formations	-	-	-	-	-	-	-
Circular failures along alternating banks or at the outside of banks	-	-	-	-	-	-	-
Alternating pattern of scour and deposition	-	-	-	-	-	-	-
Bar formations are consolidated with an unconsolidated leading edge	-	-	-	-	-	-	-
Bar material unsorted with fines downstream	-	-	-	-	-	-	-
Bar is irregularly shaped and more than 1/3 across the channel	-	-	-	-	-	-	-
Poorly sorted bed material	-	-	-	-	-	-	-
Notes - numbers in the notes rows are data codes corresponding to the observed indicators. these codes are displayed as "TRUE" in the above indicators of dynamic equilibrium	-	Note 141: Pipeline: Just US of S 14th St. Field verified no project:	-	Note 45: active incision.	Note 111: Pipeline: 2000' DS of S 25th St. Field verified no project:	-	-

Field Observations and Data Input

Appendix G: South Salt Creek Main Stem Reach Data

Field Observations and Data Input	Reach Name	SCR075	
	Channel Length	2754	
	Valley Length	1597	
	Reach Sinuosity	1.724483	
	Dominant Process	Widening	
	Indicators of Dynamic Equilibrium		
	No persistent scour or erosion features	-	
	Bankfull shelf along one or both banks	-	
	Gradually sloping banks	-	
	Herbaceous vegetation growing at or near the water surface	-	
	Well established woody vegetation on healed failure surfaces	-	
	Vegetated consolidated bars	-	
	Consolidated bed material	-	
	Imbricated rock bed material	-	
	De facto grade controls reinforcing knickpoints	-	
	Healthy riparian corridor and canopy cover	-	
	Indicators of Incision		
	V" or "U" shaped channel cross section	-	
	Persistent scouring on both banks toe to mid slope	TRUE	
	Wedge failures along both banks	TRUE	
	Steep near vertical banks	TRUE	
	Perched bankfull floodplain or abandoned terraces	-	
	Indicators of Widening		
	Knickpoints and knickzones occurring in channel profile	-	
	Steep bed slope	-	
	Scoured bed material	-	
	Consolidated bed material incision	-	
	Frequent large woody debris jams	-	
	Lower limit of woody vegetation high with exposed roots	TRUE	
	Undercut or perched infrastructure	-	
	Indicators of Plan Form Adjustment		
	Wide "U" shaped channel cross section	TRUE	
	Increase in cross sectional area	-	
	Increase in channel width and decrease in bank height from upstream	-	
	Scouring or bank failures along both banks	TRUE	
	Persistent scouring on both banks mid to upper slope	-	
	Residual failure material at bank toes	TRUE	
	Unconsolidated depositional bed material widening	TRUE	
	Depositional center bars	-	
	Unconsolidated depositional sediment bars	TRUE	
	Reinforced knickpoints and knickzones	-	
	Large woody debris jams	-	
	Lower limit of woody vegetation high with exposed roots	TRUE	
	Numerous surfing or overhanging trees	TRUE	
	Indicators of Dynamic Equilibrium		
Cutbanks with active scour lines opposite of advancing bar formations	-		
Circular failures along alternating banks or at the outside of banks	-		
Alternating pattern of scour and deposition	-		
Bar formations are consolidated with an unconsolidated leading edge	-		
Bar material unsorted with fines downstream	-		
Bar is irregularly shaped and more than 1/3 across the channel	-		
Poorly sorted bed material	-		
<p>Notes - numbers in the notes rows are data codes corresponding to the observed indicators. these codes are displayed as "TRUE" in the above indicators of dynamic equilibrium</p>		-	

Appendix G: South Salt Creek Tributaries Reach Data

Reach Name	SC005R005	SC005R010	SC010R005	SC015R005	SC015R010	SC015R015	SC015R015
Channel Length	8474	8042	3385	3452	1267	1166	1675
Valley Length	8315	7786	3157	2927	1182	1003	1251
Reach Sinuosity	1.019122	1.032879	1.07222	1.179365	1.071912	1.162512	1.338929
Dominant Process	Stable	Stable	Managed Swale	Widening	Managed Swale	Incision	Managed Swale
Indicators of Dynamic Equilibrium							
No persistent scour or erosion features	TRUE	TRUE	-	-	-	-	-
Bankfull shelf along one or both banks	-	-	-	TRUE	-	-	-
Gradually sloping banks	TRUE	TRUE	-	-	-	-	-
Herbaceous vegetation growing at or near the water surface	TRUE	TRUE	-	TRUE	-	-	-
Well established woody vegetation on healed failure surfaces	-	-	-	-	-	-	-
Vegetated consolidated bars	-	-	-	TRUE	-	-	-
Consolidated bed material	-	-	-	-	-	-	-
Imbricated rock bed material	-	-	-	-	-	-	-
De facto grade controls reinforcing knickpoints	-	-	-	-	-	-	-
Healthy riparian corridor and canopy cover	-	-	-	-	-	-	-
Indicators of Incision							
V" or "U" shaped channel cross section	TRUE	-	-	-	-	TRUE	-
Persistent scouring on both banks toe to mid slope	-	-	-	-	-	TRUE	-
Wedge failures along both banks	-	-	-	-	-	TRUE	-
Steep near vertical banks	-	-	-	-	-	TRUE	-
Perched bankfull floodplain or abandoned terraces	TRUE	-	-	-	-	-	-
Knickpoints and knickzones occurring in channel profile	TRUE	-	-	-	-	TRUE	-
Steep bed slope	-	-	-	-	-	TRUE	-
Scoured bed material	-	-	-	-	-	TRUE	-
Consolidated bed material Incision	-	-	-	-	-	-	-
Frequent large woody debris jams	-	-	-	-	-	-	-
Lower limit of woody vegetation high with exposed roots	-	-	-	-	-	TRUE	-
Undercut or perched infrastructure	-	-	-	-	-	TRUE	-
Indicators of Widening							
Wide "U" shaped channel cross section	-	-	-	TRUE	-	-	-
Increase in cross sectional area	-	-	-	TRUE	-	-	-
Increase in channel width and decrease in bank height from upstream	-	-	-	-	-	-	-
Scouring or bank failures along both banks	-	-	-	TRUE	-	-	-
Persistent scouring on both banks mid to upper slope	-	-	-	-	-	-	-
Residual failure material at bank toes	-	-	-	-	-	-	-
Unconsolidated depositional bed material widening	-	-	-	-	-	-	-
Depositional center bars	-	-	-	TRUE	-	-	-
Unconsolidated depositional sediment bars	-	-	-	-	-	-	-
Reinforced knickpoints and knickzones	-	-	-	-	-	-	-
Large woody debris jams	-	-	-	-	-	-	-
Lower limit of woody vegetation high with exposed roots	-	-	-	-	-	-	-
Numerous surfing or overhanging trees	-	-	-	-	-	-	-
Indicators of Plan Form Adjustment							
Cutbanks with active scour lines opposite of advancing bar formations	-	-	-	-	-	TRUE	-
Circular failures along alternating banks or at the outside of banks	-	-	-	-	-	TRUE	-
Alternating pattern of scour and deposition	-	-	-	-	-	-	-
Bar formations are consolidated with an unconsolidated leading edge	-	-	-	-	-	-	-
Bar material unsorted with fines downstream	-	-	-	-	-	-	-
Bar is irregularly shaped and more than 1 3 across the channel	-	-	-	-	-	-	-
Poorly sorted bed material	-	-	-	-	-	-	-
Notes - numbers in the notes rows are data codes corresponding to the observed indicators. these codes are displayed as "TRUE" in the above indicators of dynamic equilibrium	Note 69: flap gate on interior drainage structure is stuck open. Note 70: culvert under overpass. not on streets layer.	Note 71: lake, no split tributary. Note 74: drainage divide. split reach. Note 126: Utilities: At SW 40th St: Field verified no project.	Note 84: managed swale. Note 85: managed swale. Note 86: managed swale. Note 136: Infrastructure: At S Folsom St: Field verified no project.	Break reach here, upstream is stable managed gabion channel. Landowner has dammed up creek. Infrastructure: Just DS of Park Blvd: Field verified no project. Infrastructure: Just DS of W South St: Field verified no project: dumped rubble armor, trees on slope do not have undercut or exposed roots. monitor in future CIP	Note 75: concrete lined channel, Note 76: concrete flowline. Note 79: break reach at concrete channel, reach summary for upstream	Note 77: relocate trail behind new top of bank. Note 79: break reach at concrete channel, reach summary for upstream, Note 134: Infrastructure: At S 19th St: Field verified no project: house not threatened. bank held by large amount of trees, cutting pushed to opposite bank.	Note 80: managed gabion sides. Note 81: managed gabion lined channel. Note 82: break reach here, upstream is stable managed. Note 133: Infrastructure: Just US of Park Blvd: Field verified no project.

Field Observations and Data Input

Appendix G: South Salt Creek Tributaries Reach Data

Reach Name	SC020R005	SC025R005	SC030R005	SC030R005	SC030R010	SC035R005
Channel Length	3228	2788	3872	3872	2463	790
Valley Length	2144	1854	2284	2284	2274	710
Reach Sinuosity	1.505597	1.503776	1.695271	1.695271	1.083113	1.112676
Dominant Process	Managed Swale	Widening	Incision	Early Stage Incision	Managed Swale	Incision
Indicators of Dynamic Equilibrium						
No persistent scour or erosion features	-	-	-	-	-	-
Bankfull shelf along one or both banks	-	-	-	-	-	-
Gradually sloping banks	-	-	-	-	-	-
Herbaceous vegetation growing at or near the water surface	-	-	-	-	-	-
Well established woody vegetation on healed failure surfaces	-	-	-	-	-	-
Vegetated consolidated bars	-	-	-	-	-	-
Consolidated bed material	-	-	-	-	-	-
Imbricated rock bed material	-	-	-	-	-	-
De facto grade controls reinforcing knickpoints	-	-	-	-	-	-
Healthy riparian corridor and canopy cover	-	-	-	-	-	-
Indicators of Incision						
V" or "U" shaped channel cross section	-	-	-	-	-	TRUE
Persistent scouring on both banks toe to mid slope	-	-	-	-	-	TRUE
Wedge failures along both banks	-	-	-	-	-	TRUE
Steep near vertical banks	-	-	-	-	-	TRUE
Perched bankfull floodplain or abandoned terraces	-	-	-	-	-	-
Knickpoints and knickzones occurring in channel profile	-	-	-	-	-	TRUE
Steep bed slope	-	-	-	-	-	-
Scoured bed material	-	-	-	-	-	TRUE
Consolidated bed material Incision	-	-	-	-	-	-
Frequent large woody debris jams	-	-	-	-	-	-
Lower limit of woody vegetation high with exposed roots	-	-	-	-	-	TRUE
Undercut or perched infrastructure	-	-	-	-	-	-
Indicators of Widening						
Wide "U" shaped channel cross section	-	-	-	-	-	TRUE
Increase in cross sectional area	-	-	-	-	-	-
Increase in channel width and decrease in bank height from upstream	-	-	-	-	-	-
Scouring or bank failures along both banks	-	-	-	-	-	TRUE
Persistent scouring on both banks mid to upper slope	-	-	-	-	-	-
Residual failure material at bank toes	-	-	-	-	-	TRUE
Unconsolidated depositional bed material widening	-	-	-	-	-	-
Depositional center bars	-	-	-	-	-	-
Unconsolidated depositional sediment bars	-	-	-	-	-	TRUE
Reinforced knickpoints and knickzones	-	-	-	-	-	-
Large woody debris jams	-	-	-	-	-	-
Lower limit of woody vegetation high with exposed roots	-	-	-	-	-	TRUE
Numerous surfing or overhanging trees	-	-	-	-	-	TRUE
Indicators of Plan Form Adjustment						
Cutbanks with active scour lines opposite of advancing bar formations	-	-	-	-	-	-
Circular failures along alternating banks or at the outside of banks	-	-	-	-	-	-
Alternating pattern of scour and deposition	-	-	-	-	-	-
Bar formations are consolidated with an unconsolidated leading edge	-	-	-	-	-	-
Bar material unsorted with fines downstream	-	-	-	-	-	-
Bar is irregularly shaped and more than 1 3 across the channel	-	-	-	-	-	-
Poorly sorted bed material	-	-	-	-	-	-
Notes - numbers in the notes rows are data codes corresponding to the observed indicators. these codes are displayed as "TRUE" in the above indicators of dynamic equilibrium	Note 87: stable swale, Note 88: no culvert or waterway below road. Note 89: stable swale, Note 90: abandoned channel	Note 1: concrete slab armored knickpoint. Note 2: rock armored on fabric is failing in some locations. Note 3: tributary confluence	Note 8: abandoned channel, active during moderate to high flow, Note 92: did not walk upstream, early stages of incision.	Note 92: did not walk upstream, early stages of incision.	did not walk, early stages of incision. Note 91: early stages of incision.	reach from main to railroad. Note 10: 2ft knickpoint in fabric failed grade control, Note 26: break reach here.

Field Observations and Data Input

Appendix G: South Salt Creek Tributaries Reach Data

Reach Name	SC035R006	SC035R010	SC035R010	SC040R005	SC040R005
Channel Length	1107	2553	2553	3521	3521
Valley Length	993	2470	2470	3121	3121
Reach Sinuosity	1.114804	1.033603	1.033603	1.128164	1.128164
Dominant Process	Planform Adjustment	Incision	Managed Swale	Managed Swale	Stable
Indicators of Dynamic Equilibrium					
No persistent scour or erosion features	-	-	-	-	-
Bankfull shelf along one or both banks	-	-	-	-	-
Gradually sloping banks	-	-	-	-	-
Herbaceous vegetation growing at or near the water surface	-	-	-	-	-
Well established woody vegetation on healed failure surfaces	-	-	-	-	-
Vegetated consolidated bars	-	-	-	-	-
Consolidated bed material	-	-	-	-	-
Imbricated rock bed material	-	-	-	-	-
De facto grade controls reinforcing knickpoints	-	-	-	-	-
Healthy riparian corridor and canopy cover	-	-	-	-	-
Indicators of Incision					
V" or "U" shaped channel cross section	-	-	-	-	-
Persistent scouring on both banks toe to mid slope	-	-	-	-	-
Wedge failures along both banks	TRUE	-	-	-	-
Steep near vertical banks	-	-	-	-	-
Perched bankfull floodplain or abandoned terraces	-	-	-	-	-
Knickpoints and knickzones occurring in channel profile	-	-	-	-	-
Steep bed slope	-	-	-	-	-
Scoured bed material	-	-	-	-	-
Consolidated bed material Incision	-	-	-	-	-
Frequent large woody debris jams	-	-	-	-	-
Lower limit of woody vegetation high with exposed roots	TRUE	-	-	-	-
Undercut or perched infrastructure	-	-	-	-	-
Indicators of Widening					
Wide "U" shaped channel cross section	-	-	-	-	-
Increase in cross sectional area	-	-	-	-	-
Increase in channel width and decrease in bank height from upstream	-	-	-	-	-
Scouring or bank failures along both banks	-	-	-	-	-
Persistent scouring on both banks mid to upper slope	-	-	-	-	-
Residual failure material at bank toes	TRUE	-	-	-	-
Unconsolidated depositional bed material widening	-	-	-	-	-
Depositional center bars	-	-	-	-	-
Unconsolidated depositional sediment bars	-	-	-	-	-
Reinforced knickpoints and knickzones	-	-	-	-	-
Large woody debris jams	-	-	-	-	-
Lower limit of woody vegetation high with exposed roots	TRUE	-	-	-	-
Numerous surfing or overhanging trees	TRUE	-	-	-	-
Indicators of Plan Form Adjustment					
Cutbanks with active scour lines opposite of advancing bar formations	TRUE	-	-	-	-
Circular failures along alternating banks or at the outside of banks	TRUE	-	-	-	-
Alternating pattern of scour and deposition	TRUE	-	-	-	-
Bar formations are consolidated with an unconsolidated leading edge	-	-	-	-	-
Bar material unsorted with fines downstream	-	-	-	-	-
Bar is irregularly shaped and more than 1 3 across the channel	-	-	-	-	-
Poorly sorted bed material	-	-	-	-	-
Notes - numbers in the notes rows are data codes corresponding to the observed indicators. these codes are displayed as "TRUE" in the above indicators of dynamic equilibrium	reach summary, 4 indicators: 4.1,4.2,4.3,2.3,2.11, 3.12, Note 23: end concrete channel, Note 24: remove 40 inch undermined tree on ldb as part of adjacent project. Note 25: area in planform adjustment, no current threat to building. monitor during next CIP cycle. Note 26: break reach here.	Note 20: concrete swale upstream, break reach. upstream will not be rated. Note 21: concrete channel, Note 22: broken concrete slab channel holding up 6ft knickzone.	Note 19: concrete lined channel , Note 20:concrete swale upstream, break reach. upstream will not be rated.	Note 29: channel drains into small pond.	Note 28: did not walk. early stage incision. managed channel in subdivision. Note 29: channel drains into small pond. Note 31: end reach here, upstream is managed swale and pond.

Field Observations and Data Input

Appendix G: South Salt Creek Tributaries Reach Data

Reach Name	SC040R005	SC040R005	SC045R005	SC050R005	SC050R010	SC055R005
Channel Length	3521	3521	554	5178	6081	4587
Valley Length	3121	3121	550	4377	5803	3852
Reach Sinuosity	1.128164	1.128164	1.007273	1.183002	1.047906	1.19081
Dominant Process	Stable	Stable	Early Stage Incision	Incision	Managed Swale	Incision
Indicators of Dynamic Equilibrium						
No persistent scour or erosion features	-	-	-	-	-	-
Bankfull shelf along one or both banks	-	-	-	-	-	-
Gradually sloping banks	-	-	-	-	-	-
Herbaceous vegetation growing at or near the water surface	-	-	-	-	-	-
Well established woody vegetation on healed failure surfaces	-	-	-	-	-	-
Vegetated consolidated bars	-	-	-	-	-	-
Consolidated bed material	-	-	-	-	-	-
Imbricated rock bed material	-	-	-	-	-	-
De facto grade controls reinforcing knickpoints	-	-	-	-	-	-
Healthy riparian corridor and canopy cover	-	-	-	-	-	-
Indicators of Incision						
V" or "U" shaped channel cross section	-	-	-	TRUE	-	TRUE
Persistent scouring on both banks toe to mid slope	-	-	-	TRUE	-	TRUE
Wedge failures along both banks	-	-	-	TRUE	-	TRUE
Steep near vertical banks	-	-	-	TRUE	-	TRUE
Perched bankfull floodplain or abandoned terraces	-	-	-	-	-	-
Knickpoints and knickzones occurring in channel profile	-	-	-	TRUE	-	TRUE
Steep bed slope	-	-	-	TRUE	-	TRUE
Scoured bed material	-	-	-	TRUE	-	TRUE
Consolidated bed material Incision	-	-	-	-	-	-
Frequent large woody debris jams	-	-	-	TRUE	-	TRUE
Lower limit of woody vegetation high with exposed roots	-	-	-	TRUE	-	TRUE
Undercut or perched infrastructure	-	-	-	TRUE	-	TRUE
Indicators of Widening						
Wide "U" shaped channel cross section	-	-	-	-	-	-
Increase in cross sectional area	-	-	-	-	-	-
Increase in channel width and decrease in bank height from upstream	-	-	-	-	-	-
Scouring or bank failures along both banks	-	-	-	-	-	TRUE
Persistent scouring on both banks mid to upper slope	-	-	-	-	-	-
Residual failure material at bank toes	-	-	-	-	-	TRUE
Unconsolidated depositional bed material widening	-	-	-	-	-	TRUE
Depositional center bars	-	-	-	-	-	-
Unconsolidated depositional sediment bars	-	-	-	-	-	-
Reinforced knickpoints and knickzones	-	-	-	-	-	TRUE
Large woody debris jams	-	-	-	-	-	TRUE
Lower limit of woody vegetation high with exposed roots	-	-	-	-	-	TRUE
Numerous surfing or overhanging trees	-	-	-	-	-	TRUE
Indicators of Plan Form Adjustment						
Cutbanks with active scour lines opposite of advancing bar formations	-	-	-	-	-	-
Circular failures along alternating banks or at the outside of banks	-	-	-	-	-	-
Alternating pattern of scour and deposition	-	-	-	-	-	-
Bar formations are consolidated with an unconsolidated leading edge	-	-	-	-	-	-
Bar material unsorted with fines downstream	-	-	-	-	-	-
Bar is irregularly shaped and more than 1 3 across the channel	-	-	-	-	-	-
Poorly sorted bed material	-	-	-	-	-	-
Notes - numbers in the notes rows are data codes corresponding to the observed indicators. these codes are displayed as "TRUE" in the above indicators of dynamic equilibrium	-	-	-	Note 11: tributary appears to be on south side of tracks. there is a very shallow swale on the north side. Note 12: railroad crossing back to north side, Note 13: stopped walking, early incision.	no projects, managed channel , Note 13: stopped walking, early incision. Note 32: managed swale, Note 33: small pond, Note 34: early stage incision in managed swale. Note 36: managed swale, Note 137: Infrastructure: At Herel St: Field verified no project:	Note 60: farm crossing de facto grade control holding up 4ft+ knickpoint. date on concrete indicates 1974 installation.

Field Observations and Data Input

Appendix G: South Salt Creek Tributaries Reach Data

Reach Name	SC055R010	SC055R015	SC055R020	SC055R025	SC060R005	SC060R005
Channel Length	4786	1698	9847	5744	2478	2478
Valley Length	3828	1659	4641	5027	2043	2043
Reach Sinuosity	1.250261	1.023508	2.121741	1.14263	1.212922	1.212922
Dominant Process	Incision	Incision	Incision	Incision	Incision	Managed Swale
Indicators of Dynamic Equilibrium						
No persistent scour or erosion features	-	-	-	-	-	-
Bankfull shelf along one or both banks	-	-	-	-	-	-
Gradually sloping banks	-	-	-	-	-	-
Herbaceous vegetation growing at or near the water surface	-	-	-	-	-	-
Well established woody vegetation on healed failure surfaces	-	-	-	-	-	-
Vegetated consolidated bars	-	-	-	-	-	-
Consolidated bed material	-	-	-	-	-	-
Imbricated rock bed material	-	-	-	-	-	-
De facto grade controls reinforcing knickpoints	-	-	-	-	-	-
Healthy riparian corridor and canopy cover	-	-	-	-	-	-
Indicators of Incision						
V" or "U" shaped channel cross section	TRUE	TRUE	TRUE	TRUE	-	-
Persistent scouring on both banks toe to mid slope	TRUE	TRUE	TRUE	TRUE	-	-
Wedge failures along both banks	TRUE	TRUE	TRUE	TRUE	-	-
Steep near vertical banks	TRUE	TRUE	TRUE	TRUE	-	-
Perched bankfull floodplain or abandoned terraces	-	-	TRUE	TRUE	-	-
Knickpoints and knickzones occurring in channel profile	TRUE	TRUE	TRUE	TRUE	-	-
Steep bed slope	TRUE	TRUE	TRUE	TRUE	-	-
Scoured bed material	TRUE	TRUE	TRUE	TRUE	-	-
Consolidated bed material Incision	-	-	-	-	-	-
Frequent large woody debris jams	TRUE	TRUE	TRUE	TRUE	-	-
Lower limit of woody vegetation high with exposed roots	TRUE	TRUE	TRUE	TRUE	-	-
Undercut or perched infrastructure	-	TRUE	TRUE	-	-	-
Indicators of Widening						
Wide "U" shaped channel cross section	-	-	-	-	-	-
Increase in cross sectional area	-	-	-	-	-	-
Increase in channel width and decrease in bank height from upstream	-	-	-	-	-	-
Scouring or bank failures along both banks	TRUE	-	TRUE	-	-	-
Persistent scouring on both banks mid to upper slope	-	-	-	-	-	-
Residual failure material at bank toes	TRUE	-	TRUE	-	-	-
Unconsolidated depositional bed material widening	-	-	-	-	-	-
Depositional center bars	-	-	-	-	-	-
Unconsolidated depositional sediment bars	-	-	-	-	-	-
Reinforced knickpoints and knickzones	-	-	-	-	-	-
Large woody debris jams	-	-	-	-	-	-
Lower limit of woody vegetation high with exposed roots	-	-	-	-	-	-
Numerous surfing or overhanging trees	-	-	-	-	-	-
Indicators of Plan Form Adjustment						
Cutbanks with active scour lines opposite of advancing bar formations	-	-	-	-	-	-
Circular failures along alternating banks or at the outside of banks	-	-	-	-	-	-
Alternating pattern of scour and deposition	-	-	-	-	-	-
Bar formations are consolidated with an unconsolidated leading edge	-	-	-	-	-	-
Bar material unsorted with fines downstream	-	-	-	-	-	-
Bar is irregularly shaped and more than 1 3 across the channel	-	-	-	-	-	-
Poorly sorted bed material	-	-	-	-	-	-
Notes - numbers in the notes rows are data codes corresponding to the observed indicators. these codes are displayed as "TRUE" in the above indicators of dynamic equilibrium	Note 120: Pipeline: 2500' US of S 1st St: Field verified no project: owner needs to reinstall fallen marker.	Note 119:	-	Note 62: de facto grade control, earth dam farm crossing, Note 112: Pipeline: 1600' DS of W Saltillo Rd: Field verified no project:	Note 16: grade control at bridge, Note 17: railroad swale. did not walk, Note 18: tributary continues east. did not walk, early stages of incision, Note 121: Pipeline: Just DS of S 14th St: Field verified no project:	Note 17: railroad swale. did not walk

Field Observations and Data Input

Appendix G: South Salt Creek Tributaries Reach Data

Reach Name	SC065R005	SC065R010	SC065R015	SC065R020	SC065R025	SC065R025
Channel Length	4472	4705	5439	2087	6940	6940
Valley Length	3854	4582	3471	1545	5787	5787
Reach Sinuosity	1.160353	1.026844	1.566984	1.350809	1.19924	1.19924
Dominant Process	Incision	Incision	Incision	Incision	Early Stage Incision	Incision
Indicators of Dynamic Equilibrium						
No persistent scour or erosion features	-	-	-	-	-	-
Bankfull shelf along one or both banks	-	-	-	-	-	-
Gradually sloping banks	-	-	-	-	-	-
Herbaceous vegetation growing at or near the water surface	-	-	-	-	-	-
Well established woody vegetation on healed failure surfaces	-	-	-	-	-	-
Vegetated consolidated bars	-	-	-	-	-	-
Consolidated bed material	-	-	-	-	-	-
Imbricated rock bed material	-	-	-	-	-	-
De facto grade controls reinforcing knickpoints	-	-	-	-	-	-
Healthy riparian corridor and canopy cover	-	-	-	-	-	-
Indicators of Incision						
V" or "U" shaped channel cross section	TRUE	TRUE	TRUE	TRUE	-	-
Persistent scouring on both banks toe to mid slope	TRUE	TRUE	TRUE	TRUE	-	-
Wedge failures along both banks	TRUE	TRUE	TRUE	TRUE	-	-
Steep near vertical banks	TRUE	TRUE	TRUE	TRUE	-	-
Perched bankfull floodplain or abandoned terraces	-	-	-	-	-	-
Knickpoints and knickzones occurring in channel profile	TRUE	TRUE	TRUE	TRUE	-	-
Steep bed slope	TRUE	TRUE	TRUE	TRUE	-	-
Scoured bed material	TRUE	TRUE	TRUE	TRUE	-	-
Consolidated bed material Incision	-	-	-	-	-	-
Frequent large woody debris jams	TRUE	-	-	-	-	-
Lower limit of woody vegetation high with exposed roots	TRUE	TRUE	TRUE	TRUE	-	-
Undercut or perched infrastructure	TRUE	TRUE	TRUE	TRUE	-	-
Indicators of Widening						
Wide "U" shaped channel cross section	-	-	-	-	-	-
Increase in cross sectional area	-	-	-	-	-	-
Increase in channel width and decrease in bank height from upstream	-	-	-	-	-	-
Scouring or bank failures along both banks	-	-	-	-	-	-
Persistent scouring on both banks mid to upper slope	-	-	-	-	-	-
Residual failure material at bank toes	-	-	TRUE	TRUE	-	-
Unconsolidated depositional bed material widening	-	-	-	-	-	-
Depositional center bars	-	-	-	TRUE	-	-
Unconsolidated depositional sediment bars	-	-	-	-	-	-
Reinforced knickpoints and knickzones	-	-	-	-	-	-
Large woody debris jams	-	-	-	-	-	-
Lower limit of woody vegetation high with exposed roots	-	-	-	-	-	-
Numerous surfing or overhanging trees	-	-	-	-	-	-
Indicators of Plan Form Adjustment						
Cutbanks with active scour lines opposite of advancing bar formations	-	-	-	TRUE	-	-
Circular failures along alternating banks or at the outside of banks	-	-	-	-	-	-
Alternating pattern of scour and deposition	-	-	-	-	-	-
Bar formations are consolidated with an unconsolidated leading edge	-	-	-	-	-	-
Bar material unsorted with fines downstream	-	-	-	-	-	-
Bar is irregularly shaped and more than 1 3 across the channel	-	-	-	-	-	-
Poorly sorted bed material	-	-	-	-	-	-
Notes - numbers in the notes rows are data codes corresponding to the observed indicators. these codes are displayed as "TRUE" in the above indicators of dynamic equilibrium	-	-	Note 101: dumped rubble grade control holding about 2ft knickpoint downstream of wetland, Note 102: dumped rubble grade control holding up 1ft knick, Note 110: Pipeline: 1200' US of Saltillo Rd: Field verified no project :	-	Note 38: did not walk upstream, early stages of incision. Note 104: 5ft drop between point and confluence. Note 105: managed channel, shallow dam, Note 106: did not walk further. early stages of incision	Note 38: did not walk upstream, early stages of incision. Note 104: 5ft drop between point and confluence. Note 105: managed channel, shallow dam, Note 106: did not walk further. early stages of incision

Field Observations and Data Input

Appendix G: South Salt Creek Tributaries Reach Data

Reach Name	SC070R005	SC070R010	SC075R005	SC080R005	SC080R005
Channel Length	2696	936	721	3415	3415
Valley Length	775	877	637	2828	2828
Reach Sinuosity	3.47871	1.067275	1.131868	1.207567	1.207567
Dominant Process	Incision	Early Stage Incision	Early Stage Incision	Managed Swale	Incision
Indicators of Dynamic Equilibrium					
No persistent scour or erosion features	-	-	-	-	-
Bankfull shelf along one or both banks	-	-	-	-	-
Gradually sloping banks	-	-	-	-	-
Herbaceous vegetation growing at or near the water surface	-	-	-	-	-
Well established woody vegetation on healed failure surfaces	-	-	-	-	-
Vegetated consolidated bars	-	-	-	-	-
Consolidated bed material	-	-	-	-	-
Imbricated rock bed material	-	-	-	-	-
De facto grade controls reinforcing knickpoints	-	-	-	-	-
Healthy riparian corridor and canopy cover	-	-	-	-	-
Indicators of Incision					
V" or "U" shaped channel cross section	TRUE	TRUE	-	-	-
Persistent scouring on both banks toe to mid slope	TRUE	TRUE	-	-	-
Wedge failures along both banks	TRUE	TRUE	-	-	-
Steep near vertical banks	TRUE	TRUE	-	-	-
Perched bankfull floodplain or abandoned terraces	-	-	-	-	-
Knickpoints and knickzones occurring in channel profile	TRUE	TRUE	-	-	-
Steep bed slope	TRUE	-	-	-	-
Scoured bed material	TRUE	-	-	-	-
Consolidated bed material Incision	-	-	-	-	-
Frequent large woody debris jams	-	TRUE	-	-	-
Lower limit of woody vegetation high with exposed roots	TRUE	TRUE	-	-	-
Undercut or perched infrastructure	-	-	-	-	-
Indicators of Widening					
Wide "U" shaped channel cross section	-	-	-	-	-
Increase in cross sectional area	-	-	-	-	-
Increase in channel width and decrease in bank height from upstream	-	-	-	-	-
Scouring or bank failures along both banks	TRUE	TRUE	-	-	-
Persistent scouring on both banks mid to upper slope	-	-	-	-	-
Residual failure material at bank toes	-	-	-	-	-
Unconsolidated depositional bed material widening	-	-	-	-	-
Depositional center bars	-	-	-	-	-
Unconsolidated depositional sediment bars	-	-	-	-	-
Reinforced knickpoints and knickzones	-	-	-	-	-
Large woody debris jams	-	TRUE	-	-	-
Lower limit of woody vegetation high with exposed roots	-	-	-	-	-
Numerous surfing or overhanging trees	-	-	-	-	-
Indicators of Plan Form Adjustment					
Cutbanks with active scour lines opposite of advancing bar formations	TRUE	-	-	-	-
Circular failures along alternating banks or at the outside of banks	TRUE	TRUE	-	-	-
Alternating pattern of scour and deposition	-	-	-	-	-
Bar formations are consolidated with an unconsolidated leading edge	-	-	-	-	-
Bar material unsorted with fines downstream	-	-	-	-	-
Bar is irregularly shaped and more than 1 3 across the channel	-	-	-	-	-
Poorly sorted bed material	-	-	-	-	-
Notes - numbers in the notes rows are data codes corresponding to the observed indicators. these codes are displayed as "TRUE" in the above indicators of dynamic equilibrium	Note 42: oxbow, recovered. Note 43: oxbow perched 2 ft. Note 44:break reach at railroad. reach summary is for downstream section.	Note 44: break reach at railroad. reach summary is for downstream section. dp=2, 2.1,2.2,2.3,2.4,2.6,2.10,2.11,3.4,3.11,4.2	-	Note 97: managed swale, Note 99: did not walk upstream, managed swale, early stages of incision. Note 139: Structure: 100' DS of Bennet Rd: Field verified no project:	Note 97: managed swale, Note 99: did not walk upstream, managed swale, early stages of incision.

Field Observations and Data Input

Appendix G: South Salt Creek Tributaries Reach Data

Reach Name	SC080R010	SC085R005	SC090R005	SC095R005	SC095R005	SC097R005
Channel Length	4812	499	683	3569	3569	4685
Valley Length	3735	404	671	3421	3421	2557
Reach Sinuosity	1.288353	1.235149	1.017884	1.043262	1.043262	1.832225
Dominant Process	Early Stage Incision	Early Stage Incision	Managed Swale	Incision	Early Stage Incision	Planform Adjustment
Indicators of Dynamic Equilibrium						
No persistent scour or erosion features	-	-	-	-	-	-
Bankfull shelf along one or both banks	-	-	-	-	-	-
Gradually sloping banks	-	-	-	-	-	-
Herbaceous vegetation growing at or near the water surface	-	-	-	-	-	TRUE
Well established woody vegetation on healed failure surfaces	-	-	-	-	-	-
Vegetated consolidated bars	-	-	-	-	-	TRUE
Consolidated bed material	-	-	-	-	-	-
Imbricated rock bed material	-	-	-	-	-	-
De facto grade controls reinforcing knickpoints	-	-	-	-	-	-
Healthy riparian corridor and canopy cover	-	-	-	-	-	-
Indicators of Incision						
V" or "U" shaped channel cross section	-	-	-	-	-	-
Persistent scouring on both banks toe to mid slope	-	-	-	-	-	TRUE
Wedge failures along both banks	-	-	-	-	-	TRUE
Steep near vertical banks	-	-	-	-	-	TRUE
Perched bankfull floodplain or abandoned terraces	-	-	-	-	-	-
Knickpoints and knickzones occurring in channel profile	-	-	-	-	-	-
Steep bed slope	-	-	-	-	-	-
Scoured bed material	-	-	-	-	-	-
Consolidated bed material Incision	-	-	-	-	-	-
Frequent large woody debris jams	-	-	-	-	-	-
Lower limit of woody vegetation high with exposed roots	-	-	-	-	-	TRUE
Undercut or perched infrastructure	-	-	-	-	-	TRUE
Indicators of Widening						
Wide "U" shaped channel cross section	-	-	-	-	-	TRUE
Increase in cross sectional area	-	-	-	-	-	-
Increase in channel width and decrease in bank height from upstream	-	-	-	-	-	-
Scouring or bank failures along both banks	-	-	-	-	-	TRUE
Persistent scouring on both banks mid to upper slope	-	-	-	-	-	-
Residual failure material at bank toes	-	-	-	-	-	TRUE
Unconsolidated depositional bed material widening	-	-	-	-	-	TRUE
Depositional center bars	-	-	-	-	-	-
Unconsolidated depositional sediment bars	-	-	-	-	-	-
Reinforced knickpoints and knickzones	-	-	-	-	-	-
Large woody debris jams	-	-	-	-	-	-
Lower limit of woody vegetation high with exposed roots	-	-	-	-	-	TRUE
Numerous surfing or overhanging trees	-	-	-	-	-	-
Indicators of Plan Form Adjustment						
Cutbanks with active scour lines opposite of advancing bar formations	-	-	-	-	-	TRUE
Circular failures along alternating banks or at the outside of banks	-	-	-	-	-	TRUE
Alternating pattern of scour and deposition	-	-	-	-	-	TRUE
Bar formations are consolidated with an unconsolidated leading edge	-	-	-	-	-	TRUE
Bar material unsorted with fines downstream	-	-	-	-	-	-
Bar is irregularly shaped and more than 1 3 across the channel	-	-	-	-	-	TRUE
Poorly sorted bed material	-	-	-	-	-	-
Notes - numbers in the notes rows are data codes corresponding to the observed indicators. these codes are displayed as "TRUE" in the above indicators of dynamic equilibrium	Note 40: did not walk, early stages of incision, Note 98: private lake at upstream end		no drainage channel, managed field.	Note 41: did not walk upstream. early stages of incision	Note 41: did not walk upstream. early stages of incision	upstream of break point.

Field Observations and Data Input

Appendix G: South Salt Creek Tributaries Reach Data

Reach Name	SC097R010	SC097R011	SC097R012	SC097R018	SC105R005
Channel Length	3965	5775	1995	5370	4968
Valley Length	2968	3456	1850	2769	4134
Reach Sinuosity	1.335916	1.671007	1.078378	1.939328	1.201742
Dominant Process	Planform Adjustment	Incision	Incision	Incision	Managed Swale
Indicators of Dynamic Equilibrium					
No persistent scour or erosion features	-	-	-	-	-
Bankfull shelf along one or both banks	-	-	-	-	-
Gradually sloping banks	-	-	-	-	-
Herbaceous vegetation growing at or near the water surface	-	-	-	-	-
Well established woody vegetation on healed failure surfaces	-	-	-	-	-
Vegetated consolidated bars	-	-	-	-	-
Consolidated bed material	-	-	-	-	-
Imbricated rock bed material	-	-	-	-	-
De facto grade controls reinforcing knickpoints	-	-	-	-	-
Healthy riparian corridor and canopy cover	-	-	-	-	-
Indicators of Incision					
V" or "U" shaped channel cross section	TRUE	TRUE	TRUE	TRUE	-
Persistent scouring on both banks toe to mid slope	-	TRUE	TRUE	TRUE	-
Wedge failures along both banks	TRUE	TRUE	TRUE	TRUE	-
Steep near vertical banks	TRUE	TRUE	TRUE	TRUE	-
Perched bankfull floodplain or abandoned terraces	TRUE	-	TRUE	-	-
Knickpoints and knickzones occurring in channel profile	-	TRUE	TRUE	TRUE	-
Steep bed slope	-	-	-	TRUE	-
Scoured bed material	-	-	-	TRUE	-
Consolidated bed material Incision	-	-	-	-	-
Frequent large woody debris jams	-	-	TRUE	TRUE	-
Lower limit of woody vegetation high with exposed roots	TRUE	TRUE	TRUE	TRUE	-
Undercut or perched infrastructure	-	TRUE	-	-	-
Indicators of Widening					
Wide "U" shaped channel cross section	-	-	-	-	-
Increase in cross sectional area	-	-	-	-	-
Increase in channel width and decrease in bank height from upstream	-	-	-	-	-
Scouring or bank failures along both banks	-	TRUE	-	-	-
Persistent scouring on both banks mid to upper slope	-	-	-	-	-
Residual failure material at bank toes	-	-	-	-	-
Unconsolidated depositional bed material widening	-	-	-	-	-
Depositional center bars	-	-	-	-	-
Unconsolidated depositional sediment bars	-	-	-	-	-
Reinforced knickpoints and knickzones	-	-	-	-	-
Large woody debris jams	-	TRUE	-	-	-
Lower limit of woody vegetation high with exposed roots	-	-	-	-	-
Numerous surfing or overhanging trees	-	-	-	-	-
Indicators of Plan Form Adjustment					
Cutbanks with active scour lines opposite of advancing bar formations	TRUE	-	-	-	-
Circular failures along alternating banks or at the outside of banks	TRUE	TRUE	-	-	-
Alternating pattern of scour and deposition	TRUE	-	-	-	-
Bar formations are consolidated with an unconsolidated leading edge	-	-	-	-	-
Bar material unsorted with fines downstream	-	-	-	-	-
Bar is irregularly shaped and more than 1 3 across the channel	TRUE	-	-	-	-
Poorly sorted bed material	-	-	-	-	-
Notes - numbers in the notes rows are data codes corresponding to the observed indicators. these codes are displayed as "TRUE" in the above indicators of dynamic equilibrium	note 66 break reach here	reach summary, lower section. dp=2, 2.1,2.2,2.3,2.4,2.6,2.10,2.11,3.4,3.11,4.2. Note 46: break tributary here. reach summary is for upstream. of break point.	dp=2; 2.1,2.2,2.3,2.4,2.5,2.6,2.10,2.11, Note 66: break reach here.	Note 65: concrete grade control, 2ft knick. Note 108: Pipeline: 1000' DS of S 68th St: Field verified no project:	managed swale, Note 72 :did not walk. managed swale. Note 73 lake, no points taken.

Field Observations and Data Input

Appendix G: South Salt Creek Tributaries Reach Data

Reach Name	SC130R005	SC135R005	SC150R005	SC155R005	SC155R005	SC165R005
Channel Length	3077	695	920	3934	3934	6563
Valley Length	2511	691	917	3795	3795	4997
Reach Sinuosity	1.225408	1.005789	1.003272	1.036627	1.036627	1.313388
Dominant Process	Managed Swale	Stable	Managed Swale	Incision	Incision	Incision
Indicators of Dynamic Equilibrium						
No persistent scour or erosion features	-	TRUE	-	-	-	-
Bankfull shelf along one or both banks	-	-	-	-	-	-
Gradually sloping banks	-	-	-	-	-	-
Herbaceous vegetation growing at or near the water surface	-	TRUE	-	-	-	-
Well established woody vegetation on healed failure surfaces	-	-	-	-	-	-
Vegetated consolidated bars	-	-	-	-	-	-
Consolidated bed material	-	-	-	-	-	-
Imbricated rock bed material	-	-	-	-	-	-
De facto grade controls reinforcing knickpoints	-	-	-	-	-	-
Healthy riparian corridor and canopy cover	-	-	-	-	-	-
Indicators of Incision						
V" or "U" shaped channel cross section	-	-	-	-	-	TRUE
Persistent scouring on both banks toe to mid slope	-	-	-	-	-	TRUE
Wedge failures along both banks	-	-	-	-	-	TRUE
Steep near vertical banks	-	-	-	-	-	TRUE
Perched bankfull floodplain or abandoned terraces	-	-	-	-	-	-
Knickpoints and knickzones occurring in channel profile	-	-	-	-	-	TRUE
Steep bed slope	-	-	-	-	-	TRUE
Scoured bed material	-	-	-	-	-	TRUE
Consolidated bed material Incision	-	-	-	-	-	-
Frequent large woody debris jams	-	-	-	-	-	TRUE
Lower limit of woody vegetation high with exposed roots	-	-	-	-	-	TRUE
Undercut or perched infrastructure	-	-	-	-	-	-
Indicators of Widening						
Wide "U" shaped channel cross section	-	-	-	-	-	-
Increase in cross sectional area	-	-	-	-	-	-
Increase in channel width and decrease in bank height from upstream	-	-	-	-	-	-
Scouring or bank failures along both banks	-	-	-	-	-	-
Persistent scouring on both banks mid to upper slope	-	-	-	-	-	-
Residual failure material at bank toes	-	-	-	-	-	-
Unconsolidated depositional bed material widening	-	-	-	-	-	-
Depositional center bars	-	-	-	-	-	-
Unconsolidated depositional sediment bars	-	-	-	-	-	-
Reinforced knickpoints and knickzones	-	-	-	-	-	-
Large woody debris jams	-	-	-	-	-	-
Lower limit of woody vegetation high with exposed roots	-	-	-	-	-	-
Numerous surfing or overhanging trees	-	-	-	-	-	-
Indicators of Plan Form Adjustment						
Cutbanks with active scour lines opposite of advancing bar formations	-	-	-	-	-	-
Circular failures along alternating banks or at the outside of banks	-	-	-	-	-	-
Alternating pattern of scour and deposition	-	-	-	-	-	-
Bar formations are consolidated with an unconsolidated leading edge	-	-	-	-	-	-
Bar material unsorted with fines downstream	-	-	-	-	-	-
Bar is irregularly shaped and more than 1 3 across the channel	-	-	-	-	-	-
Poorly sorted bed material	-	-	-	-	-	-
Notes - numbers in the notes rows are data codes corresponding to the observed indicators. these codes are displayed as "TRUE" in the above indicators of dynamic equilibrium	did not walk, managed field, early stages of incis	-	did not walk, managed swale, Note 35: did not walk, managed swale. Note 137: Infrastructure: At Herel St: Field verified no project:	-	dp=2; 2.1,2.2,2.3,2.4,2.6,2.7,2.8,2.11	Note 118: Pipeline: Just DS of Homestead Expressway and Rokeby Rd: Field verified no project:

Field Observations and Data Input

Appendix G: South Salt Creek Tributaries Reach Data

Reach Name	SC165R010	SC165R015	SC170R005	SC197R005	SC255R010
Channel Length	6073	5031	1649	2943	5328
Valley Length	5155	4162	1527	2772	4935
Reach Sinuosity	1.178079	1.208794	1.079895	1.061688	1.079635
Dominant Process	Incision	Incision	Early Stage Incision	Incision	Incision
Indicators of Dynamic Equilibrium					
No persistent scour or erosion features	-	-	-	-	-
Bankfull shelf along one or both banks	-	-	-	-	-
Gradually sloping banks	-	-	-	-	-
Herbaceous vegetation growing at or near the water surface	-	-	-	-	-
Well established woody vegetation on healed failure surfaces	-	-	-	-	-
Vegetated consolidated bars	-	-	-	-	-
Consolidated bed material	-	-	-	-	-
Imbricated rock bed material	-	-	-	-	-
De facto grade controls reinforcing knickpoints	-	-	-	-	-
Healthy riparian corridor and canopy cover	-	-	-	-	-
Indicators of Incision					
V" or "U" shaped channel cross section	TRUE	TRUE	-	TRUE	-
Persistent scouring on both banks toe to mid slope	TRUE	TRUE	-	TRUE	-
Wedge failures along both banks	TRUE	TRUE	-	TRUE	-
Steep near vertical banks	TRUE	TRUE	-	TRUE	-
Perched bankfull floodplain or abandoned terraces	-	TRUE	-	-	-
Knickpoints and knickzones occurring in channel profile	TRUE	-	-	TRUE	-
Steep bed slope	TRUE	-	-	TRUE	-
Scoured bed material	TRUE	TRUE	-	TRUE	-
Consolidated bed material Incision	-	-	-	-	-
Frequent large woody debris jams	TRUE	-	-	TRUE	-
Lower limit of woody vegetation high with exposed roots	TRUE	TRUE	-	TRUE	-
Undercut or perched infrastructure	TRUE	-	-	-	-
Indicators of Widening					
Wide "U" shaped channel cross section	-	-	-	-	-
Increase in cross sectional area	-	-	-	-	-
Increase in channel width and decrease in bank height from upstream	-	-	-	-	-
Scouring or bank failures along both banks	TRUE	-	-	-	-
Persistent scouring on both banks mid to upper slope	-	-	-	-	-
Residual failure material at bank toes	TRUE	TRUE	-	-	-
Unconsolidated depositional bed material widening	-	-	-	-	-
Depositional center bars	TRUE	-	-	-	-
Unconsolidated depositional sediment bars	-	-	-	-	-
Reinforced knickpoints and knickzones	-	-	-	-	-
Large woody debris jams	-	-	-	-	-
Lower limit of woody vegetation high with exposed roots	-	TRUE	-	-	-
Numerous surfing or overhanging trees	-	-	-	-	-
Indicators of Plan Form Adjustment					
Cutbanks with active scour lines opposite of advancing bar formations	TRUE	-	-	-	-
Circular failures along alternating banks or at the outside of banks	-	-	-	-	-
Alternating pattern of scour and deposition	-	-	-	-	-
Bar formations are consolidated with an unconsolidated leading edge	-	-	-	-	-
Bar material unsorted with fines downstream	-	-	-	-	-
Bar is irregularly shaped and more than 1 3 across the channel	-	-	-	-	-
Poorly sorted bed material	-	-	-	-	-
Notes - numbers in the notes rows are data codes corresponding to the observed indicators. these codes are displayed as "TRUE" in the above indicators of dynamic equilibrium	Note 114: Pipeline: 1400' DS of W Saltillo Rd: Field verified no project:	early stages of incision. did not walk	-	Note 67: broken back culvert with 10 ft+ drop. Note 127: Structure: 150' DS of Bennet Rd: Field verified no project:	Note 95: early stages of incision. Note 96: early stages of incision, did not walk upstream. Note 113: Pipeline: 1400' DS of W Saltillo Rd: Field verified no project:

Field Observations and Data Input

Appendix G: South Salt Creek Tributaries Reach Data

Reach Name	SC255R010	SC265R005	SC297R005	SC355R005	SC365R005	SC397R005
Channel Length	5328	3752	921	1037	816	1485
Valley Length	4935	3389	746	1037	809	1304
Reach Sinuosity	1.079635	1.107111	1.234584	1	1.008653	1.138804
Dominant Process	Early Stage Incision	Managed Swale	Incision	Managed Swale	Incision	Managed Swale
Indicators of Dynamic Equilibrium						
No persistent scour or erosion features	-	-	-	-	-	-
Bankfull shelf along one or both banks	-	-	-	-	-	-
Gradually sloping banks	-	-	TRUE	-	-	-
Herbaceous vegetation growing at or near the water surface	-	-	TRUE	-	-	-
Well established woody vegetation on healed failure surfaces	-	-	-	-	-	-
Vegetated consolidated bars	-	-	-	-	-	-
Consolidated bed material	-	-	-	-	-	-
Imbricated rock bed material	-	-	-	-	-	-
De facto grade controls reinforcing knickpoints	-	-	-	-	-	-
Healthy riparian corridor and canopy cover	-	-	-	-	-	-
Indicators of Incision						
V" or "U" shaped channel cross section	-	-	TRUE	-	TRUE	-
Persistent scouring on both banks toe to mid slope	-	-	TRUE	-	TRUE	-
Wedge failures along both banks	-	-	-	-	TRUE	-
Steep near vertical banks	-	-	-	-	TRUE	-
Perched bankfull floodplain or abandoned terraces	-	-	TRUE	-	-	-
Knickpoints and knickzones occurring in channel profile	-	-	TRUE	-	-	-
Steep bed slope	-	-	-	-	-	-
Scoured bed material	-	-	-	-	-	-
Consolidated bed material Incision	-	-	-	-	-	-
Frequent large woody debris jams	-	-	TRUE	-	TRUE	-
Lower limit of woody vegetation high with exposed roots	-	-	TRUE	-	TRUE	-
Undercut or perched infrastructure	-	-	-	-	TRUE	-
Indicators of Widening						
Wide "U" shaped channel cross section	-	-	-	-	-	-
Increase in cross sectional area	-	-	-	-	-	-
Increase in channel width and decrease in bank height from upstream	-	-	-	-	-	-
Scouring or bank failures along both banks	-	-	-	-	-	-
Persistent scouring on both banks mid to upper slope	-	-	-	-	-	-
Residual failure material at bank toes	-	-	-	-	-	-
Unconsolidated depositional bed material widening	-	-	-	-	-	-
Depositional center bars	-	-	-	-	-	-
Unconsolidated depositional sediment bars	-	-	-	-	-	-
Reinforced knickpoints and knickzones	-	-	-	-	-	-
Large woody debris jams	-	-	-	-	-	-
Lower limit of woody vegetation high with exposed roots	-	-	-	-	-	-
Numerous surfing or overhanging trees	-	-	-	-	-	-
Indicators of Plan Form Adjustment						
Cutbanks with active scour lines opposite of advancing bar formations	-	-	-	-	-	-
Circular failures along alternating banks or at the outside of banks	-	-	-	-	-	-
Alternating pattern of scour and deposition	-	-	-	-	-	-
Bar formations are consolidated with an unconsolidated leading edge	-	-	-	-	-	-
Bar material unsorted with fines downstream	-	-	-	-	-	-
Bar is irregularly shaped and more than 1 3 across the channel	-	-	-	-	-	-
Poorly sorted bed material	-	-	-	-	-	-
Notes - numbers in the notes rows are data codes corresponding to the observed indicators. these codes are displayed as "TRUE" in the above indicators of dynamic equilibrium	Note 96: early stages of incision, did not walk upstream.	did not walk, managed field	early stages incision.	did not walk, managed swale. Note 119: Pipeline: Just DS of SW 12th St: Field verified no project:	Note 115: Pipeline: 200' DS of S 1st St: Field verified no project.:	-

Field Observations and Data Input

Appendix G: South Salt Creek Tributaries Reach Data

Reach Name	SC397R005	SC455R005	SC455R005	SC465R005	SC465R005	SC497R005
Channel Length	1485	2276	2276	4340	4340	4885
Valley Length	1304	1835	1835	3223	3223	3696
Reach Sinuosity	1.138804	1.240327	1.240327	1.346572	1.346572	1.321699
Dominant Process	Incision	Early Stage Incision	Incision	Early Stage Incision	Incision	Incision
Indicators of Dynamic Equilibrium						
No persistent scour or erosion features	-	-	-	-	-	-
Bankfull shelf along one or both banks	-	-	-	-	-	-
Gradually sloping banks	-	-	-	-	-	-
Herbaceous vegetation growing at or near the water surface	-	-	-	-	-	-
Well established woody vegetation on healed failure surfaces	-	-	-	-	-	-
Vegetated consolidated bars	-	-	-	-	-	-
Consolidated bed material	-	-	-	-	-	-
Imbricated rock bed material	-	-	-	-	-	-
De facto grade controls reinforcing knickpoints	-	-	-	-	-	-
Healthy riparian corridor and canopy cover	-	-	-	-	-	-
Indicators of Incision						
V" or "U" shaped channel cross section	-	-	-	-	-	TRUE
Persistent scouring on both banks toe to mid slope	-	-	-	-	-	TRUE
Wedge failures along both banks	-	-	-	-	-	TRUE
Steep near vertical banks	-	-	-	-	-	TRUE
Perched bankfull floodplain or abandoned terraces	-	-	-	-	-	TRUE
Knickpoints and knickzones occurring in channel profile	-	-	-	-	-	TRUE
Steep bed slope	-	-	-	-	-	TRUE
Scoured bed material	-	-	-	-	-	TRUE
Consolidated bed material Incision	-	-	-	-	-	-
Frequent large woody debris jams	-	-	-	-	-	TRUE
Lower limit of woody vegetation high with exposed roots	-	-	-	-	-	TRUE
Undercut or perched infrastructure	-	-	-	-	-	-
Indicators of Widening						
Wide "U" shaped channel cross section	-	-	-	-	-	-
Increase in cross sectional area	-	-	-	-	-	-
Increase in channel width and decrease in bank height from upstream	-	-	-	-	-	-
Scouring or bank failures along both banks	-	-	-	-	-	-
Persistent scouring on both banks mid to upper slope	-	-	-	-	-	-
Residual failure material at bank toes	-	-	-	-	-	-
Unconsolidated depositional bed material widening	-	-	-	-	-	-
Depositional center bars	-	-	-	-	-	-
Unconsolidated depositional sediment bars	-	-	-	-	-	-
Reinforced knickpoints and knickzones	-	-	-	-	-	-
Large woody debris jams	-	-	-	-	-	-
Lower limit of woody vegetation high with exposed roots	-	-	-	-	-	-
Numerous surfing or overhanging trees	-	-	-	-	-	-
Indicators of Plan Form Adjustment						
Cutbanks with active scour lines opposite of advancing bar formations	-	-	-	-	-	-
Circular failures along alternating banks or at the outside of banks	-	-	-	-	-	-
Alternating pattern of scour and deposition	-	-	-	-	-	-
Bar formations are consolidated with an unconsolidated leading edge	-	-	-	-	-	-
Bar material unsorted with fines downstream	-	-	-	-	-	-
Bar is irregularly shaped and more than 1 3 across the channel	-	-	-	-	-	-
Poorly sorted bed material	-	-	-	-	-	-
Notes - numbers in the notes rows are data codes corresponding to the observed indicators. these codes are displayed as "TRUE" in the above indicators of dynamic equilibrium	Note 64: tributary dammed. farm pond upstream	Note 37: did not walk upstream of point. managed swale.	Note 37: did not walk upstream of point. managed swale.	Note 39: did not walk upstream, early stages of incision, Note 103: early stages of incision, did not walk upstream	Note 39: did not walk upstream, early stages of incision, Note 103: early stages of incision, did not walk upstream	Note 63:

Field Observations and Data Input