

Appendix B - 2015 Geomorphic Changes in Sandia Canyon Reach S2 Survey Data

Site	Type of Survey ^a	Purpose	Date Surveyed	Y	X	Z	Calculated Distance in Section or Profile (ft) ^b
Thalweg	GPS	TP ^c	12/8/2015	1773934.823	1620887.209	7242.636	0d
	GPS	TP	12/8/2015	1773935.648	1620891.28	7242.91	4.15
	GPS	TP	12/8/2015	1773936.374	1620896.522	7243.106	9.44
	GPS	TP	12/8/2015	1773934.437	1620902.652	7243.202	15.45
	GPS	TP	12/8/2015	1773933.919	1620905.251	7243.031	18.06
	GPS	TP	12/8/2015	1773935.348	1620911.524	7242.985	24.32
	GPS	TP	12/8/2015	1773938.3	1620920.473	7242.87	33.45
	GPS	TP	12/8/2015	1773943.581	1620930.056	7242.45	43.73
	GPS	TP	12/8/2015	1773946.653	1620939.123	7242.762	53.24
	GPS	TP	12/8/2015	1773944.36	1620946.384	7242.448	59.94
	GPS	TP	12/8/2015	1773943.911	1620951.697	7242.349	65.13
	GPS	TP	12/8/2015	1773940.552	1620956.183	7241.725	69.21
	GPS	TP	12/8/2015	1773934.598	1620961.022	7242.076	73.81
	GPS	TP	12/8/2015	1773934.889	1620970.182	7241.563	82.97
	GPS	TP	12/8/2015	1773933.759	1620987.248	7241.191	100.04
	GPS	TP	12/8/2015	1773937.133	1620993.299	7241.32	106.12
	GPS	TP	12/8/2015	1773941.42	1620994.983	7241.205	107.98
	GPS	TP	12/8/2015	1773943.741	1620999.541	7240.168	112.69
	GPS	TP	12/8/2015	1773958.567	1621000.113	7241.006	115.37
	GPS	TP	12/8/2015	1773953.087	1621003.606	7240.998	117.82
	GPS	TP	12/8/2015	1773946.045	1621005.747	7240.249	119.07
	GPS	TP	12/8/2015	1773967.658	1621006.557	7240.666	123.78
	GPS	TP	12/8/2015	1773975.395	1621009.432	7239.938	128.78
	GPS	TP	12/8/2015	1773976.614	1621012.732	7240.065	132.30
	GPS	TP	12/8/2015	1773973.839	1621029.53	7239.244	147.57
	GPS	TP	12/8/2015	1773972.28	1621038.315	7239.972	155.68
	GPS	TP	12/8/2015	1773962.309	1621059.927	7239.528	174.89

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Site	Type of Survey ^a	Purpose	Date Surveyed	Y	X	Z	Calculated Distance in Section or Profile (ft) ^b
	GPS	TP	12/8/2015	1773957.662	1621076.645	7239.31	190.81
	GPS	TP	12/8/2015	1773948.554	1621098.57	7239.565	211.81
	GPS	TP	12/8/2015	1773943.601	1621118.218	7239.357	231.18
	GPS	TP	12/8/2015	1773936.633	1621133.3	7239.2	246.10
	GPS	TP	12/8/2015	1773932.209	1621140.37	7238.611	253.17
	GPS	TP	12/8/2015	1773925.767	1621149.833	7239.899	262.78
	GPS	TP	12/8/2015	1773923.752	1621161.453	7239.165	274.47
	GPS	TP	12/8/2015	1773923.694	1621169.761	7239.681	282.77
	GPS	TP	12/8/2015	1773931.17	1621183.686	7239.567	296.50
	GPS	TP	12/8/2015	1773937.784	1621184.012	7239.039	296.82
	GPS	TP	12/8/2015	1773934.746	1621184.47	7239.197	297.26
	GPS	TP	12/8/2015	1773945.842	1621197.737	7238.88	310.72
	GPS	TP	12/8/2015	1773946.636	1621212.926	7238.343	325.93
	GPS	TP	12/8/2015	1773944.513	1621220.274	7237.994	333.21
	GPS	TP	12/8/2015	1773939.173	1621232.825	7237.695	345.64
	GPS	TP	12/8/2015	1773940.93	1621245.909	7236.974	358.75
	GPS	TP	12/8/2015	1773941.32	1621252.814	7236.076	365.66
	GPS	TP	12/8/2015	1773939.055	1621267.568	7237.329	380.38
	GPS	TP	12/8/2015	1773939.265	1621275.86	7236.591	388.68
	GPS	TP	12/8/2015	1773933.42	1621293.824	7236.817	406.62
	GPS	TP	12/8/2015	1773930.862	1621306.873	7236.648	419.68
	GPS	TP	12/8/2015	1773926.934	1621319.247	7236.692	432.11
	GPS	TP	12/8/2015	1773905.701	1621330.976	7236.239	444.72
	GPS	TP	12/8/2015	1773900.753	1621337.364	7236.085	451.44
	GPS	TP	12/8/2015	1773894.669	1621355.648	7236.11	470.16
	GPS	TP	12/8/2015	1773891.907	1621359.709	7236.244	474.44
	GPS	TP	12/8/2015	1773895.679	1621387.182	7236.337	501.50

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Site	Type of Survey ^a	Purpose	Date Surveyed	Y	X	Z	Calculated Distance in Section or Profile (ft) ^b
	GPS	TP	12/8/2015	1773904.405	1621387.793	7235.826	501.51
	GPS	TP	12/8/2015	1773907.562	1621401.744	7235.879	515.26
	GPS	TP	12/8/2015	1773904.455	1621406.016	7235.72	519.70
	GPS	TP	12/8/2015	1773909.588	1621416.044	7235.318	529.44
	GPS	TP	12/8/2015	1773899.498	1621440.567	7234.566	554.48
	GPS	TP	12/11/2015	1773903.734	1621459.24	7234.21	572.88
	GPS	TP	12/11/2015	1773901.534	1621470.352	7234.289	584.09
	GPS	TP	12/11/2015	1773885.735	1621471.319	7234.23	586.17
	GPS	TP	12/11/2015	1773876.364	1621472.104	7233.738	587.81
	GPS	TP	12/11/2015	1773863.381	1621482.944	7232.802	600.00
	GPS	TP	12/11/2015	1773852.952	1621482.604	7232.023	601.00
	GPS	TP	12/11/2015	1773842.863	1621491.833	7232.538	611.58
	GPS	TP	12/11/2015	1773835.248	1621517.756	7231.731	638.36
	GPS	TP	12/11/2015	1773828.803	1621539.217	7231.76	660.57
	GPS	TP	12/11/2015	1773821.558	1621570.745	7231.837	692.86
	GPS	TP	12/11/2015	1773793.239	1621569.589	7231.357	696.91
	GPS	TP	12/11/2015	1773782.672	1621569.325	7230.975	698.88
	GPS	TP	12/11/2015	1773774.425	1621588.961	7230.608	719.85
	GPS	TP	12/11/2015	1773754.925	1621610.299	7230.66	745.13
	GPS	TP	12/11/2015	1773737.49	1621614.765	7230.265	753.84
	GPS	TP	12/11/2015	1773723.988	1621613.964	7230	756.72
	GPS	TP	12/11/2015	1773713.393	1621627.986	7230.232	773.16
	GPS	TP	12/11/2015	1773710.511	1621638.942	7229.395	784.49
	GPS	TP	12/11/2015	1773700.918	1621655.623	7229.643	803.23
	GPS	TP	12/11/2015	1773698.159	1621670.398	7229.207	818.17
	GPS	TP	12/11/2015	1773691.785	1621676.12	7229.396	825.50
	GPS	TP	12/11/2015	1773695.965	1621689.423	7228.692	837.02

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Site	Type of Survey ^a	Purpose	Date Surveyed	Y	X	Z	Calculated Distance in Section or Profile (ft) ^b
	GPS	TP	12/11/2015	1773699.149	1621700.131	7228.946	846.39
	GPS	TP	12/11/2015	1773698.904	1621716.9	7228.427	862.58
	GPS	TP	12/11/2015	1773696.079	1621727.8	7228.101	873.84
	GPS	TP	12/11/2015	1773686.155	1621743.292	7227.455	891.47
	GPS	TP	12/11/2015	1773651.784	1621788.914	7226.333	945.08
	GPS	TP	12/11/2015	1773630.273	1621819.164	7225.256	980.45
	GPS	TP	12/11/2015	1773639.14	1621828.81	7225.67	986.94
	GPS	TP	12/11/2015	1773647.088	1621854.426	7224.382	1009.11
	GPS	TP	12/11/2015	1773651.621	1621879.668	7223.165	1032.07
	GPS	TP	12/11/2015	1773623.607	1621898.526	7222.738	1058.12
	GPS	TP	12/11/2015	1773613.648	1621921.021	7222.315	1082.55
	GPS	TP	12/11/2015	1773610.491	1621943.409	7221.889	1104.88
	GPS	TP	12/11/2015	1773599.744	1621981.832	7220.945	1144.76
	GPS	TP	12/11/2015	1773612.983	1622022.269	7220.54	1179.81
	GPS	TP	12/11/2015	1773608.285	1622042.899	7220.134	1200.94
	GPS	TP	12/11/2015	1773595.061	1622062.89	7219.782	1223.79
	GPS	TP	12/11/2015	1773591.789	1622084.258	7219.428	1245.23
	GPS	TP	12/11/2015	1773585.928	1622105.968	7218.833	1267.71
	GPS	TP	12/11/2015	1773556.306	1622114.147	7218.113	1284.00
	GPS	TP	12/11/2015	1773572.572	1622119.151	7218.555	1284.10
	GPS	TP	12/11/2015	1773523.388	1622130.897	7217.656	1309.98
	GPS	TP	12/11/2015	1773508.092	1622151.732	7216.852	1334.59
	GPS	TP	12/11/2015	1773486.634	1622158.046	7216.885	1347.55
	GPS	TP	12/11/2015	1773465.132	1622174.982	7216.12	1370.75
	GPS	TP	12/11/2015	1773436.556	1622200.834	7215.75	1404.95
	GPS	TP	12/11/2015	1773409.507	1622221.945	7215.287	1434.39
	GPS	TP	12/11/2015	1773386.079	1622235.981	7214.929	1456.13

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Site	Type of Survey ^a	Purpose	Date Surveyed	Y	X	Z	Calculated Distance in Section or Profile (ft) ^b
	GPS	TP	12/11/2015	1773368.861	1622249.079	7214.065	1474.79
	GPS	TP	12/11/2015	1773339.378	1622278.3	7213.184	1513.17
	GPS	TP	12/11/2015	1773336.976	1622292.686	7212.895	1527.35
	GPS	TP	12/11/2015	1773339.33	1622300.896	7211.571	1533.99
	GPS	TP	12/11/2015	1773320.587	1622328.25	7211.044	1566.49
	GPS	TP	12/11/2015	1773307.787	1622349.636	7211.683	1591.18
	GPS	TP	12/11/2015	1773313.504	1622363.096	7210.884	1601.34
	GPS	TP	12/11/2015	1773311.281	1622377.23	7210.61	1615.23
	GPS	TP	12/11/2015	1773303.801	1622390.206	7210.083	1630.09
	GPS	TP	12/11/2015	1773294.773	1622408.26	7210.815	1650.23
	GPS	TP	12/11/2015	1773289.157	1622418.216	7210.801	1661.59
	GPS	TP	12/11/2015	1773268.14	1622443.21	7208.93	1692.81
	GPS	TP	12/11/2015	1773266.315	1622461.958	7209.75	1710.77
	GPS	TP	12/11/2015	1773263.698	1622489.989	7209.878	1737.62
	GPS	TP	12/11/2015	1773248.789	1622519.655	7210.005	1770.74
	GPS	TP	12/11/2015	1773226.298	1622511.06	7209.797	1771.69
	GPS	TP	12/11/2015	1773214.296	1622533.318	7208.717	1796.90
	GPS	TP	12/11/2015	1773210.367	1622564.516	7208.588	1827.07
	GPS	TP	12/11/2015	1773221.009	1622608.117	7208.574	1863.08
	GPS	TP	12/11/2015	1773214.302	1622639.331	7206.916	1894.49
	GPS	TP	12/11/2015	1773178.176	1622651.677	7207.085	1919.86
	GPS	TP	12/11/2015	1773159.133	1622647.886	7204.781	1923.97
	GPS	TP	12/11/2015	1773136.566	1622657.18	7202.233	1941.65
	GPS	TP	12/11/2015	1773105.391	1622666.492	7202.062	1963.11
	GPS	TP	12/11/2015	1773079.697	1622679.662	7201.959	1985.98
	GPS	TP	12/11/2015	1773073.445	1622684.365	7201.559	1992.92
	GPS	TP	12/11/2015	1773070.721	1622685.38	7200.799	1995.02

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Site	Type of Survey ^a	Purpose	Date Surveyed	Y	X	Z	Calculated Distance in Section or Profile (ft) ^b
	GPS	TP	12/11/2015	1773058.54	1622690.898	7200.077	2005.28
	GPS	TP	12/11/2015	1773029.939	1622705.635	7200.177	2031.13
	GPS	TP	12/11/2015	1773021.869	1622708.538	7200.21	2037.33
	GPS	TP	12/11/2015	1773000.199	1622721.312	7199.617	2058.51
Plunge Pool	GPS	PP ^e	12/3/2015	1773933.754	1620842.651	7244.641	—
	GPS	PP	12/3/2015	1773930.041	1620846.5	7243.292	—
	GPS	PP	12/3/2015	1773932.373	1620888.183	7244.103	—
	GPS	PP	12/3/2015	1773931.97	1620887.918	7244.155	—
	GPS	PP	12/3/2015	1773931.295	1620887.701	7244.16	—
	GPS	PP	12/3/2015	1773928.188	1620887.943	7243.734	—
	GPS	PP	12/3/2015	1773927.744	1620887.632	7243.774	—
	GPS	PP	12/3/2015	1773926.884	1620886.414	7243.779	—
	GPS	PP	12/3/2015	1773926.548	1620886.258	7243.769	—
	GPS	PP	12/3/2015	1773925.253	1620886.032	7243.767	—
	GPS	PP	12/3/2015	1773925.046	1620886.444	7243.847	—
	GPS	PP	12/3/2015	1773924.531	1620887.973	7243.828	—
	GPS	PP	12/3/2015	1773924.124	1620888.214	7243.863	—
	GPS	PP	12/3/2015	1773923.846	1620888.712	7243.825	—
	GPS	PP	12/3/2015	1773923.613	1620888.687	7243.864	—
	GPS	PP	12/3/2015	1773922.796	1620887.972	7244.004	—
	GPS	PP	12/3/2015	1773921.599	1620885.024	7244.666	—
	GPS	PP	12/3/2015	1773921.781	1620884.424	7244.006	—
	GPS	PP	12/3/2015	1773922	1620884.027	7244.033	—
	GPS	PP	12/3/2015	1773921.869	1620883.529	7243.915	—
	GPS	PP	12/3/2015	1773921.07	1620883.332	7244.089	—
	GPS	PP	12/3/2015	1773920.702	1620883.602	7244.378	—
	GPS	PP	12/3/2015	1773920.304	1620883.63	7244.913	—

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Site	Type of Survey ^a	Purpose	Date Surveyed	Y	X	Z	Calculated Distance in Section or Profile (ft) ^b
	GPS	PP	12/3/2015	1773917.681	1620879.407	7245.367	—
	GPS	PP	12/3/2015	1773916.904	1620878.407	7245.169	—
	GPS	PP	12/3/2015	1773916.432	1620877.739	7245.5	—
	GPS	PP	12/3/2015	1773917.911	1620872.648	7245.18	—
	GPS	PP	12/3/2015	1773918.434	1620871.893	7245.105	—
	GPS	PP	12/3/2015	1773918.317	1620871.27	7245.056	—
	GPS	PP	12/3/2015	1773917.643	1620870.755	7245.461	—
	GPS	PP	12/3/2015	1773917.315	1620869.684	7245.564	—
	GPS	PP	12/3/2015	1773917.52	1620869.021	7245.819	—
	GPS	PP	12/3/2015	1773917.296	1620868.594	7246.008	—
	GPS	PP	12/3/2015	1773917.484	1620865.474	7246.165	—
	GPS	PP	12/3/2015	1773918.712	1620864.264	7244.84	—
	GPS	PP	12/3/2015	1773922.03	1620862.416	7244.518	—
	GPS	PP	12/3/2015	1773921.784	1620861.373	7244.867	—
	GPS	PP	12/3/2015	1773918.996	1620860.893	7244.94	—
	GPS	PP	12/3/2015	1773918.836	1620860.546	7244.863	—
	GPS	PP	12/3/2015	1773918.87	1620860.086	7244.291	—
	GPS	PP	12/3/2015	1773919.267	1620858.91	7244.185	—
	GPS	PP	12/3/2015	1773919.137	1620856.972	7244.073	—
	GPS	PP	12/3/2015	1773919.824	1620855.54	7244.045	—
	GPS	PP	12/3/2015	1773920.948	1620854.813	7243.855	—
	GPS	PP	12/3/2015	1773923.121	1620854.583	7244.023	—
	GPS	PP	12/3/2015	1773924.231	1620853.616	7243.951	—
	GPS	PP	12/3/2015	1773927.526	1620848.773	7243.879	—
	GPS	PP	12/3/2015	1773929.521	1620846.693	7243.788	—
	GPS	PP	12/3/2015	1773931.713	1620845.956	7243.936	—
	GPS	PP	12/3/2015	1773933.741	1620844.07	7244.249	—

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Site	Type of Survey ^a	Purpose	Date Surveyed	Y	X	Z	Calculated Distance in Section or Profile (ft) ^b
	GPS	PP	12/3/2015	1773944.555	1620847.359	7244.348	—
	GPS	PP	12/3/2015	1773946.451	1620850.084	7244.196	—
	GPS	PP	12/3/2015	1773946.757	1620851.964	7243.48	—
	GPS	PP	12/3/2015	1773947.979	1620854.198	7243.862	—
	GPS	PP	12/3/2015	1773947.696	1620855.455	7243.7	—
	GPS	PP	12/3/2015	1773948.597	1620855.738	7244.048	—
	GPS	PP	12/3/2015	1773948.693	1620857.152	7243.842	—
	GPS	PP	12/3/2015	1773949.19	1620860.231	7243.85	—
	GPS	PP	12/3/2015	1773949.207	1620862.192	7243.72	—
	GPS	PP	12/3/2015	1773949.223	1620864.45	7243.585	—
	GPS	PP	12/3/2015	1773948.19	1620867.751	7243.747	—
	GPS	PP	12/3/2015	1773946.139	1620870.257	7243.821	—
	GPS	PP	12/3/2015	1773945.545	1620872.904	7244.014	—
	GPS	PP	12/3/2015	1773945.205	1620875.68	7243.955	—
	GPS	PP	12/3/2015	1773944.424	1620876.481	7243.792	—
	GPS	PP	12/3/2015	1773943.173	1620880.484	7243.727	—
	GPS	PP	12/3/2015	1773942.333	1620883.803	7243.929	—
	GPS	PP	12/3/2015	1773941.495	1620887.116	7244.074	—
	GPS	PP	12/3/2015	1773940.89	1620887.399	7244.004	—
	GPS	PP	12/3/2015	1773940.225	1620888.687	7243.688	—
	GPS	PP	12/3/2015	1773939.226	1620889.539	7243.699	—
	GPS	PP	12/3/2015	1773938.409	1620889.579	7243.981	—
	GPS	PP	12/3/2015	1773937.724	1620888.939	7243.776	—
	GPS	PP	12/3/2015	1773936.467	1620887.132	7243.823	—
	GPS	PP	12/3/2015	1773936.085	1620887.26	7243.638	—
	GPS	PP	12/3/2015	1773936.351	1620888.893	7243.647	—
	GPS	PP	12/3/2015	1773936.66	1620889.603	7243.68	—

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Site	Type of Survey ^a	Purpose	Date Surveyed	Y	X	Z	Calculated Distance in Section or Profile (ft) ^b
Alluvial Fan Extent	GPS	PP	12/3/2015	1773937.345	1620890.047	7243.648	—
	GPS	SouthFan	12/14/2015	1773565.727	1622061.162	7221.014	—
	GPS	SouthFan	12/14/2015	1773570.047	1622062.71	7220.781	—
	GPS	SouthFan	12/14/2015	1773576.41	1622049.705	7221.371	—
	GPS	SouthFan	12/14/2015	1773583.88	1622047.353	7221.448	—
	GPS	SouthFan	12/14/2015	1773584.226	1622032.283	7221.696	—
	GPS	SouthFan	12/14/2015	1773581.097	1622028.562	7221.756	—
	GPS	SouthFan	12/14/2015	1773582.423	1622014.174	7221.616	—
	GPS	SouthFan	12/14/2015	1773584.439	1622011.866	7221.847	—
	GPS	SouthFan	12/14/2015	1773585.081	1622007.348	7221.829	—
	GPS	SouthFan	12/14/2015	1773581.642	1622005.603	7221.887	—
	GPS	SouthFan	12/14/2015	1773579.206	1622009.554	7222.06	—
	GPS	SouthFan	12/14/2015	1773572.279	1622008.307	7222.101	—
	GPS	SouthFan	12/14/2015	1773572.059	1622010.724	7221.836	—
	GPS	SouthFan	12/14/2015	1773574.224	1622011.244	7221.991	—
	GPS	SouthFan	12/14/2015	1773575.436	1622015.067	7221.798	—
	GPS	SouthFan	12/14/2015	1773577.022	1622015.086	7221.875	—
	GPS	SouthFan	12/14/2015	1773577.536	1622041.207	7221.697	—
	GPS	SouthFan	12/14/2015	1773575.486	1622043.657	7221.709	—
	GPS	SouthFan	12/14/2015	1773570.57	1622042.89	7221.315	—
	GPS	SouthFan	12/14/2015	1773567.117	1622049.305	7221.55	—
	GPS	NorthFan1	12/22/2015	1773993.031	1621532.238	7238.229	—
	GPS	NorthFan1	12/22/2015	1773987.13	1621537.08	7237.808	—
	GPS	NorthFan1	12/22/2015	1773978.264	1621549.177	7237.404	—
	GPS	NorthFan1	12/22/2015	1773975.143	1621557.693	7237.432	—
	GPS	NorthFan1	12/22/2015	1773974.666	1621574.181	7238.201	—
	GPS	NorthFan1	12/22/2015	1773975.162	1621561.786	7238.935	—

Appendix B - 2015 Geomorphic Changes in Sandia Canyon Reach S2 Survey Data

Site	Type of Survey ^a	Purpose	Date Surveyed	Y	X	Z	Calculated Distance in Section or Profile (ft) ^b
	GPS	NorthFan1	12/22/2015	1773979.392	1621547.964	7239.792	—
	GPS	NorthFan1	12/22/2015	1773995.907	1621533.411	7239.402	—
	GPS	NorthFan1	12/22/2015	1773970.662	1621559.204	7237.142	—
	GPS	NorthFan1	12/22/2015	1773958.162	1621561.564	7236.634	—
	GPS	NorthFan1	12/22/2015	1773947.225	1621567.193	7235.887	—
	GPS	NorthFan1	12/22/2015	1773931.66	1621564.901	7234.743	—
	GPS	NorthFan1	12/22/2015	1773921.801	1621570.189	7233.925	—
	GPS	NorthFan1	12/22/2015	1773918.437	1621584.605	7234.033	—
	GPS	NorthFan1	12/22/2015	1773926.978	1621585.723	7234.651	—
	GPS	NorthFan1	12/22/2015	1773924.776	1621593.035	7234.545	—
	GPS	NorthFan1	12/22/2015	1773920.959	1621602.155	7234.543	—
	GPS	NorthFan1	12/22/2015	1773910.715	1621607.746	7233.913	—
	GPS	NorthFan1	12/22/2015	1773902.504	1621609.507	7233.287	—
	GPS	NorthFan1	12/22/2015	1773902.486	1621609.458	7233.274	—
	GPS	NorthFan1	12/22/2015	1773903.971	1621618.598	7233.197	—
	GPS	NorthFan1	12/22/2015	1773903.143	1621625.096	7233.199	—
	GPS	NorthFan1	12/22/2015	1773909.488	1621624.273	7232.981	—
	GPS	NorthFan2	12/22/2015	1773874.416	1621710.958	7231.833	—
	GPS	NorthFan2	12/22/2015	1773872.327	1621718.981	7231.974	—
	GPS	NorthFan2	12/22/2015	1773864.488	1621716.23	7231.677	—
	GPS	NorthFan2	12/22/2015	1773855.424	1621718.417	7231.705	—
	GPS	NorthFan2	12/22/2015	1773848.138	1621722.843	7231.759	—
	GPS	NorthFan2	12/22/2015	1773838.043	1621726.454	7231.442	—
	GPS	NorthFan2	12/22/2015	1773831.547	1621731.319	7231.653	—
	GPS	NorthFan2	12/22/2015	1773824.962	1621739.842	7231.429	—
	GPS	NorthFan2	12/22/2015	1773816.27	1621743.189	7230.834	—
	GPS	NorthFan2	12/22/2015	1773804.743	1621749.101	7230.284	—

Appendix B - 2015 Geomorphic Changes in Sandia Canyon Reach S2 Survey Data

Site	Type of Survey ^a	Purpose	Date Surveyed	Y	X	Z	Calculated Distance in Section or Profile (ft) ^b
Bank Surveys	GPS	NorthFan2	12/22/2015	1773799.66	1621760.391	7229.898	—
	GPS	NorthFan2	12/22/2015	1773816.922	1621760.32	7230.56	—
	GPS	NorthFan2	12/22/2015	1773816.1	1621747.668	7230.637	—
	GPS	NorthFan2	12/22/2015	1773806.783	1621753.3	7230.324	—
	GPS	NorthFan2	12/22/2015	1773815.293	1621771.49	7230.447	—
	GPS	NorthFan2	12/22/2015	1773810.434	1621779.358	7229.905	—
	GPS	NorthFan2	12/22/2015	1773805.452	1621790.667	7229.59	—
	GPS	NorthFan2	12/22/2015	1773796.726	1621795.209	7229.208	—
	GPS	NorthFan2	12/22/2015	1773804.352	1621800.097	7229.23	—
	GPS	NorthFan2	12/22/2015	1773800.702	1621810.124	7228.743	—
	GPS	NorthFan2	12/22/2015	1773805.266	1621811.74	7228.967	—
	GPS	NorthFan3	12/22/2015	1774044.631	1621365.511	7238.685	—
	GPS	NorthFan3	12/22/2015	1774032.838	1621367.347	7238.212	—
	GPS	NorthFan3	12/22/2015	1774022.447	1621373.823	7237.83	—
	GPS	NorthFan3	12/22/2015	1774019.323	1621372.837	7237.438	—
	GPS	NorthFan3	12/22/2015	1774015.994	1621379.59	7237.522	—
	GPS	NorthFan3	12/22/2015	1774012.975	1621389.551	7237.204	—
	GPS	NorthFan3	12/22/2015	1774013.154	1621397.675	7237.442	—
	GPS	NorthFan3	12/22/2015	1774008.245	1621402.644	7237.069	—
	GPS	NorthFan3	12/22/2015	1774011.995	1621406.152	7237.291	—
	GPS	RightBankTop	42342.56483	1773932.306	1620888.535	7244.059	—
	GPS	RightBankTop	42342.56509	1773933.047	1620900.989	7243.945	—
	GPS	RightBankTop	42342.56541	1773932.331	1620909.932	7243.84	—
	GPS	RightBankTop	42342.56561	1773929.53	1620919.301	7244.049	—
	GPS	RightBankTop	42342.56691	1773936.239	1620936.927	7243.611	—
	GPS	RightBankTop	42342.568	1773938.44	1620941.247	7243.421	—
	GPS	RightBankTop	42342.5683	1773941.332	1620946.329	7243.36	—

Appendix B - 2015 Geomorphic Changes in Sandia Canyon Reach S2 Survey Data

Site	Type of Survey ^a	Purpose	Date Surveyed	Y	X	Z	Calculated Distance in Section or Profile (ft) ^b
	GPS	RightBankTop	42342.56904	1773942.193	1620950.668	7243.18	—
	GPS	RightBankTop	42342.56973	1773941.205	1620953.574	7243.028	—
	GPS	RightBankTop	42342.57036	1773935.671	1620956.351	7243.054	—
	GPS	RightBankTop	42342.57067	1773932.45	1620959.829	7243.181	—
	GPS	RightBankTop	42342.57109	1773931.661	1620961.21	7243.95	—
	GPS	RightBankTop	42342.5726	1773928.677	1620963.348	7245.799	—
	GPS	RightBankTop	42342.57279	1773930.774	1620974.303	7245.422	—
	GPS	RightBankTop	42342.57295	1773930.331	1620985.573	7245.326	—
	GPS	RightBankTop	42342.57309	1773933.51	1620993.726	7244.78	—
	GPS	RightBankTop	42342.57338	1773939.76	1620999.54	7244.362	—
	GPS	RightBankTop	42342.57353	1773942.813	1621004.084	7244.178	—
	GPS	RightBankTop	42342.57367	1773942.097	1621004.595	7244.227	—
	GPS	RightBankTop	42342.57381	1773944.237	1621007.333	7244.022	—
	GPS	RightBankTop	42342.57395	1773945.742	1621007.859	7243.803	—
	GPS	RightBankTop	42342.57409	1773946.125	1621008.819	7243.918	—
	GPS	RightBankTop	42342.57424	1773949.913	1621009.18	7244.103	—
	GPS	RightBankTop	42342.57449	1773954.195	1621010.732	7244.162	—
	GPS	RightBankTop	42342.57462	1773956.909	1621013.126	7244.02	—
	GPS	RightBankTop	42342.57478	1773959.616	1621017.8	7243.974	—
	GPS	RightBankTop	42342.57494	1773961.578	1621022.717	7243.616	—
	GPS	RightBankTop	42342.57515	1773961.402	1621033.232	7243.237	—
	GPS	RightBankTop	42342.57537	1773959.61	1621043.329	7242.678	—
	GPS	RightBankTop	42342.57574	1773956.01	1621056.198	7242.106	—
	GPS	RightBankTop	42342.57591	1773951.322	1621068.341	7242.506	—
	GPS	RightBankTop	42342.57606	1773949.428	1621072.907	7242.83	—
	GPS	RightBankTop	42342.57631	1773945.724	1621084.55	7242.047	—
	GPS	RightBankTop	42342.5776	1773943.893	1621092.043	7242.016	—

Appendix B - 2015 Geomorphic Changes in Sandia Canyon Reach S2 Survey Data

Site	Type of Survey ^a	Purpose	Date Surveyed	Y	X	Z	Calculated Distance in Section or Profile (ft) ^b
	GPS	RightBankTop	42342.57775	1773942.95	1621097.259	7241.664	—
	GPS	RightBankTop	42342.57793	1773939.451	1621107.924	7241.891	—
	GPS	RightBankTop	42342.57809	1773937.697	1621116.175	7241.528	—
	GPS	RightBankTop	42342.57832	1773933.85	1621127.806	7241.413	—
	GPS	RightBankTop	42342.57845	1773932.067	1621129.818	7241.357	—
	GPS	RightBankTop	42342.57858	1773932.58	1621131.711	7241.17	—
	GPS	RightBankTop	42342.57874	1773932.314	1621135.417	7241.346	—
	GPS	RightBankTop	42342.57887	1773932.301	1621135.535	7241.341	—
	GPS	RightBankTop	42342.57902	1773927.543	1621143.531	7241.229	—
	GPS	RightBankTop	42342.57919	1773922.899	1621152.249	7240.963	—
	GPS	RightBankTop	42342.57936	1773921.821	1621165.401	7240.51	—
	GPS	RightBankTop	42342.57957	1773924.037	1621181.345	7240.474	—
	GPS	RightBankBottom	42346.57706	1773933.34	1620889.391	7247.107	—
	GPS	RightBankBottom	42346.57726	1773935.322	1620892.257	7246.634	—
	GPS	RightBankBottom	42346.57771	1773935.262	1620897.232	7246.784	—
	GPS	RightBankBottom	42346.57794	1773933.78	1620901.778	7246.86	—
	GPS	RightBankBottom	42346.57833	1773932.749	1620905.41	7246.675	—
	GPS	RightBankBottom	42346.57861	1773932.969	1620913.289	7246.569	—
	GPS	RightBankBottom	42346.57882	1773931.074	1620918.809	7246.179	—
	GPS	RightBankBottom	42346.57924	1773930.685	1620922.889	7246.583	—
	GPS	RightBankBottom	42346.57957	1773933.774	1620926.897	7246.726	—
	GPS	RightBankBottom	42346.57995	1773931.443	1620934.398	7247.122	—
	GPS	RightBankBottom	42346.58015	1773933.768	1620940.581	7246.907	—
	GPS	RightBankBottom	42346.58061	1773935.035	1620948.212	7246.95	—
	GPS	RightBankBottom	42346.58084	1773934.087	1620954.945	7246.966	—
	GPS	RightBankBottom	42346.58101	1773932.434	1620959.568	7246.627	—
	GPS	RightBankBottom	42346.5812	1773931.102	1620964.984	7246.371	—

Appendix B - 2015 Geomorphic Changes in Sandia Canyon Reach S2 Survey Data

Site	Type of Survey ^a	Purpose	Date Surveyed	Y	X	Z	Calculated Distance in Section or Profile (ft) ^b
	GPS	RightBankBottom	42346.58138	1773931.697	1620973.7	7246.525	—
	GPS	RightBankBottom	42346.58159	1773931.823	1620985.063	7246.547	—
	GPS	RightBankBottom	42346.58183	1773933.514	1620990.461	7246.321	—
	GPS	RightBankBottom	42346.58211	1773937.411	1620995.409	7246.239	—
	GPS	RightBankBottom	42346.58248	1773942.202	1621000.844	7245.977	—
	GPS	RightBankBottom	42346.58299	1773944.632	1621005.847	7244.475	—
	GPS	RightBankBottom	42346.58334	1773947.99	1621008.279	7244.268	—
	GPS	RightBankBottom	42346.58384	1773949.796	1621008.465	7245.77	—
	GPS	RightBankBottom	42346.58432	1773958.218	1621011.188	7245.467	—
	GPS	RightBankBottom	42346.58458	1773962.455	1621018.67	7245.703	—
	GPS	RightBankBottom	42346.58473	1773962.571	1621018.763	7245.759	—
	GPS	RightBankBottom	42346.58494	1773962.866	1621030.255	7245.87	—
	GPS	RightBankBottom	42346.58524	1773962.252	1621041.947	7245.356	—
	GPS	RightBankBottom	42346.58558	1773959.429	1621057.303	7244.567	—
	GPS	RightBankBottom	42346.58586	1773957.664	1621062.492	7243.939	—
	GPS	RightBankBottom	42346.58612	1773953.266	1621073.83	7243.856	—
	GPS	RightBankBottom	42346.58642	1773948.54	1621080.79	7244.712	—
	GPS	RightBankBottom	42346.58676	1773948.045	1621086.585	7243.851	—
	GPS	RightBankBottom	42346.58707	1773945.077	1621094.726	7243.868	—
	GPS	RightBankBottom	42346.58733	1773942.761	1621102.373	7243.76	—
	GPS	RightBankBottom	42346.58755	1773940.15	1621113.006	7243.823	—
	GPS	RightBankBottom	42346.58774	1773936.865	1621123.12	7243.719	—
	GPS	RightBankBottom	42346.58799	1773933.313	1621130.322	7243.535	—
	GPS	RightBankBottom	42346.58822	1773933.354	1621131.906	7243.355	—
	GPS	RightBankBottom	42346.5884	1773932.881	1621137.593	7242.605	—
	GPS	RightBankBottom	42346.5889	1773928.768	1621144.181	7242.564	—
	GPS	RightBankBottom	42346.58909	1773925.378	1621148.375	7243.329	—

Appendix B - 2015 Geomorphic Changes in Sandia Canyon Reach S2 Survey Data

Site	Type of Survey ^a	Purpose	Date Surveyed	Y	X	Z	Calculated Distance in Section or Profile (ft) ^b
	GPS	RightBankBottom	42346.58935	1773923.161	1621155.022	7243.077	—
	GPS	RightBankBottom	42346.58953	1773923.171	1621160.312	7242.691	—
	GPS	RightBankBottom	42346.58971	1773921.785	1621168.898	7243.331	—
	GPS	RightBankBottom	42346.5899	1773923.378	1621176.324	7243.296	—
	GPS	RightBankBottom	42346.59002	1773923.417	1621178.666	7243.293	—
	GPS	RightBankBottom	42346.59016	1773925.083	1621181.218	7242.902	—
	GPS	RightBankBottom	42346.59029	1773924.837	1621183.149	7243.129	—
	GPS	RightBankBottom	42346.59054	1773930.099	1621185.268	7243.257	—
	GPS	RightBankBottom	42346.59071	1773936.051	1621184.418	7242.873	—
	GPS	RightBankBottom	42346.59191	1773942.856	1621209.26	7242.492	—
	GPS	RightBankBottom	42346.59206	1773941.86	1621214.675	7242.37	—
	GPS	RightBankBottom	42346.59231	1773942.314	1621221.662	7242.14	—
	GPS	RightBankBottom	42346.59249	1773941.3	1621224.248	7241.816	—
	GPS	RightBankBottom	42346.59274	1773939.541	1621230.806	7241.205	—
	GPS	RightBankBottom	42346.59287	1773938.568	1621231.89	7241.122	—
	GPS	RightBankBottom	42346.59306	1773937.933	1621237.981	7241.288	—
	GPS	RightBankBottom	42346.59322	1773939.598	1621240.734	7240.875	—
	GPS	RightBankBottom	42346.59341	1773940.446	1621247.673	7240.245	—
	GPS	RightBankBottom	42346.59361	1773940.802	1621252.329	7239.67	—
	GPS	RightBankBottom	42346.59385	1773938.735	1621257.45	7240.364	—
	GPS	RightBankBottom	42346.59416	1773937.736	1621260.644	7241.123	—
	GPS	RightBankTop	42346.59656	1773937.093	1621260.569	7241.961	—
	GPS	RightBankTop	42346.59674	1773938.63	1621255.341	7241.895	—
	GPS	RightBankTop	42346.59692	1773940.076	1621250.499	7241.832	—
	GPS	RightBankTop	42346.59707	1773939.771	1621246.33	7241.742	—
	GPS	RightBankTop	42346.59723	1773939.114	1621240.479	7241.956	—
	GPS	RightBankTop	42346.5974	1773936.988	1621236.715	7242.433	—

Appendix B - 2015 Geomorphic Changes in Sandia Canyon Reach S2 Survey Data

Site	Type of Survey ^a	Purpose	Date Surveyed	Y	X	Z	Calculated Distance in Section or Profile (ft) ^b
	GPS	RightBankTop	42346.59757	1773938.481	1621228.521	7242.576	—
	GPS	RightBankTop	42346.59777	1773941.276	1621221.536	7242.565	—
	GPS	RightBankTop	42346.59797	1773940.729	1621214.329	7242.802	—
	GPS	RightBankTop	42346.59821	1773941.728	1621208.799	7242.765	—
	GPS	LeftBankTop	42346.60002	1773953.339	1621254.777	7242.456	—
	GPS	LeftBankTop	42346.60021	1773951.238	1621243.355	7242.372	—
	GPS	LeftBankTop	42346.60038	1773950.759	1621237.811	7242.477	—
	GPS	LeftBankTop	42346.60059	1773952.405	1621229.324	7242.854	—
	GPS	LeftBankTop	42346.60076	1773952.745	1621219.335	7242.759	—
	GPS	LeftBankTop	42346.60109	1773957.885	1621215.997	7244.409	—
	GPS	LeftBankTop	42346.60128	1773960.682	1621207.874	7244.825	—
	GPS	LeftBankTop	42346.60145	1773964.465	1621203.766	7245.17	—
	GPS	LeftBankTop	42346.6016	1773964.617	1621198.373	7245.162	—
	GPS	LeftBankTop	42346.60177	1773965.346	1621195.162	7245.229	—
	GPS	LeftBankTop	42346.60193	1773968.214	1621189.414	7245.333	—
	GPS	LeftBankTop	42346.60209	1773965.665	1621178.845	7244.897	—
	GPS	LeftBankTop	42346.60227	1773965.69	1621170.853	7244.765	—
	GPS	LeftBankTop	42346.60247	1773966.208	1621159.053	7244.956	—
	GPS	LeftBankTop	42346.60271	1773967.424	1621145.424	7244.748	—
	GPS	LeftBankTop	42346.60293	1773968.489	1621128.778	7244.763	—
	GPS	LeftBankTop	42346.60314	1773969.06	1621115.664	7244.535	—
	GPS	LeftBankTop	42346.60334	1773972.024	1621107.595	7245.175	—
	GPS	LeftBankTop	42346.60355	1773971.468	1621097.665	7245.231	—
	GPS	LeftBankTop	42346.60372	1773970.802	1621088.974	7245.03	—
	GPS	LeftBankTop	42346.60392	1773972.595	1621076.178	7245.503	—
	GPS	LeftBankTop	42346.60409	1773971.242	1621069.319	7245.113	—
	GPS	LeftBankTop	42346.60429	1773974.101	1621054.863	7245.539	—

Appendix B - 2015 Geomorphic Changes in Sandia Canyon Reach S2 Survey Data

Site	Type of Survey ^a	Purpose	Date Surveyed	Y	X	Z	Calculated Distance in Section or Profile (ft) ^b
	GPS	LeftBankTop	42346.6045	1773976.275	1621041.72	7245.27	—
	GPS	LeftBankTop	42346.60478	1773976.173	1621035.427	7245.644	—
	GPS	LeftBankTop	42346.60507	1773976.842	1621026.809	7246.036	—
	GPS	LeftBankTop	42346.60532	1773977.79	1621023.68	7245.503	—
	GPS	LeftBankTop	42346.60573	1773979.931	1621018.876	7246.345	—
	GPS	LeftBankTop	42346.60596	1773981.681	1621009.514	7247.244	—
	GPS	LeftBankTop	42346.60611	1773979.106	1621007.596	7246.576	—
	GPS	LeftBankTop	42346.6063	1773979.368	1621000.578	7246.924	—
	GPS	LeftBankTop	42346.60648	1773976.873	1620993.322	7247.634	—
	GPS	LeftBankTop	42346.60666	1773970.607	1620988.444	7247.616	—
	GPS	LeftBankTop	42346.60685	1773965.13	1620976.954	7247.642	—
	GPS	LeftBankTop	42346.60706	1773965.34	1620970.658	7248.246	—
	GPS	LeftBankTop	42346.60725	1773962.891	1620959.518	7248.487	—
	GPS	LeftBankTop	42346.60742	1773962.551	1620954.431	7248.694	—
	GPS	LeftBankTop	42346.60765	1773962.484	1620940.806	7249.038	—
	GPS	LeftBankTop	42346.60789	1773961.948	1620938.877	7248.928	—
	GPS	LeftBankTop	42346.6081	1773958.935	1620930.946	7249.132	—
	GPS	LeftBankTop	42346.60828	1773957.496	1620925.369	7249.492	—
	GPS	LeftBankTop	42346.60843	1773954.11	1620921.117	7249.696	—
	GPS	LeftBankTop	42346.6086	1773952.545	1620911.523	7250.247	—
	GPS	LeftBankTop	42346.60877	1773951.522	1620905.59	7250.103	—
	GPS	LeftBankTop	42346.60907	1773949.074	1620895.393	7250.183	—
	GPS	LeftBankTop	42346.60926	1773947.33	1620888.033	7250.418	—
	GPS	LeftBankBottom	42346.61356	1773944.028	1620888.915	7247.866	—
	GPS	LeftBankBottom	42346.61374	1773946.47	1620899.481	7247.51	—
	GPS	LeftBankBottom	42346.61903	1773948.125	1620908.778	7247.444	—
	GPS	LeftBankBottom	42346.61954	1773952.742	1620925.075	7247.457	—

Appendix B - 2015 Geomorphic Changes in Sandia Canyon Reach S2 Survey Data

Site	Type of Survey ^a	Purpose	Date Surveyed	Y	X	Z	Calculated Distance in Section or Profile (ft) ^b
	GPS	LeftBankBottom	42346.6197	1773956.211	1620935.713	7247.081	—
	GPS	LeftBankBottom	42346.61994	1773959.817	1620943.804	7247.129	—
	GPS	LeftBankBottom	42346.6202	1773960.232	1620953.001	7246.631	—
	GPS	LeftBankBottom	42346.6206	1773960.324	1620959.21	7246.219	—
	GPS	LeftBankBottom	42346.62087	1773962.218	1620967.211	7246.522	—
	GPS	LeftBankBottom	42346.62104	1773961.935	1620976.414	7246.241	—
	GPS	LeftBankBottom	42346.6212	1773962.696	1620984.879	7246.015	—
	GPS	LeftBankBottom	42346.62138	1773970.342	1620992.888	7245.917	—
	GPS	LeftBankBottom	42346.62162	1773976.239	1620997.365	7245.521	—
	GPS	LeftBankBottom	42346.62192	1773974.878	1621007.649	7244.167	—
	GPS	LeftBankBottom	42346.62212	1773977.14	1621013.557	7244.919	—
	GPS	LeftBankBottom	42346.62238	1773977.063	1621023.309	7243.66	—
	GPS	LeftBankBottom	42346.62279	1773974.916	1621032.461	7242.559	—
	GPS	LeftBankBottom	42346.62303	1773974.647	1621037.239	7243.721	—
	GPS	LeftBankBottom	42346.62322	1773970.87	1621045.337	7244.222	—
	GPS	LeftBankBottom	42346.62339	1773969.459	1621056.672	7244.267	—
	GPS	LeftBankBottom	42346.62361	1773967.104	1621072.289	7244.235	—
	GPS	LeftBankBottom	42346.62382	1773968.095	1621086.838	7244.469	—
	GPS	LeftBankBottom	42346.62405	1773967.497	1621103.736	7243.774	—
	GPS	LeftBankBottom	42346.62436	1773964.594	1621117.622	7243.455	—
	GPS	LeftBankBottom	42346.62458	1773966.726	1621130.342	7243.724	—
	GPS	LeftBankBottom	42346.6248	1773964.038	1621144.28	7243.316	—
	GPS	LeftBankBottom	42346.62503	1773962.433	1621159.182	7242.983	—
	GPS	LeftBankBottom	42346.62524	1773963.42	1621172.689	7242.917	—
	GPS	LeftBankBottom	42346.62545	1773964.004	1621185.499	7242.952	—
	GPS	LeftBankBottom	42346.62561	1773963.263	1621195.079	7242.851	—
	GPS	LeftBankBottom	42346.62581	1773958.341	1621207.743	7242.823	—

Appendix B - 2015 Geomorphic Changes in Sandia Canyon Reach S2 Survey Data

Site	Type of Survey ^a	Purpose	Date Surveyed	Y	X	Z	Calculated Distance in Section or Profile (ft) ^b
	GPS	LeftBankBottom	42346.62597	1773955.59	1621214.045	7242.832	—
	GPS	LeftBankBottom	42346.63362	1773951.467	1621227.976	7242.183	—
	GPS	LeftBankBottom	42346.63404	1773949.856	1621238.077	7241.818	—
	GPS	LeftBankBottom	42346.63439	1773952.022	1621251.458	7241.56	—
	GPS	LeftBankTop	42352.47833	1773073.974	1622687.135	7202.731	—
	GPS	LeftBankTop	42352.47854	1773072.061	1622687.141	7202.469	—
	GPS	LeftBankTop	42352.4789	1773070.682	1622688.043	7202.625	—
	GPS	LeftBankTop	42352.47912	1773069.71	1622689.258	7202.681	—
	GPS	LeftBankTop	42352.48056	1773067.492	1622690.601	7202.753	—
	GPS	LeftBankTop	42352.48088	1773066.217	1622689.746	7202.209	—
	GPS	LeftBankTop	42352.48145	1773055.204	1622694.574	7202.896	—
	GPS	LeftBankTop	42352.4817	1773054.14	1622694.375	7202.628	—
	GPS	LeftBankTop	42352.482	1773054.151	1622694.315	7202.643	—
	GPS	LeftBankTop	42352.48233	1773045.397	1622699.828	7202.785	—
	GPS	LeftBankTop	42352.48412	1773043.483	1622699.19	7202.504	—
	GPS	LeftBankTop	42352.4869	1773036.997	1622704.405	7202.489	—
	GPS	LeftBankTop	42352.48727	1773034.726	1622707.299	7202.677	—
	GPS	LeftBankTop	42352.49242	1773031.088	1622709.09	7202.585	—
	GPS	LeftBankTop	42352.49263	1773030.444	1622710.822	7203.199	—
	GPS	LeftBankTop	42352.49288	1773022.479	1622709.561	7202.373	—
	GPS	LeftBankTop	42352.49541	1773019.998	1622711.496	7202.471	—
	GPS	LeftBankTop	42352.4983	1773012.438	1622717.855	7202.369	—
	GPS	LeftBankTop	42352.49878	1773007.897	1622721.523	7202.302	—
	GPS	LeftBankTop	42352.49898	1773007.34	1622722.633	7202.417	—
	GPS	LeftBankTop	42352.4994	1773004.984	1622724.208	7202.455	—
	GPS	LeftBankTop	42352.49959	1773002.699	1622724.726	7201.882	—
	GPS	LeftBankTop	42352.49992	1772999.741	1622727.156	7200.988	—

Appendix B - 2015 Geomorphic Changes in Sandia Canyon Reach S2 Survey Data

Site	Type of Survey ^a	Purpose	Date Surveyed	Y	X	Z	Calculated Distance in Section or Profile (ft) ^b
	GPS	LeftBankTop	42352.50096	1772999.151	1622728.973	7201.724	—
	GPS	LeftBankTop	42352.50135	1772997.357	1622729.413	7201.783	—
	GPS	LeftBankTop	42352.50156	1772994.69	1622731.834	7201.874	—
	GPS	LeftBankTop	42352.50179	1772993.029	1622731.538	7201.537	—
	GPS	LeftBankTop	42352.50228	1772990.046	1622735.577	7201.734	—
	GPS	LeftBankTop	42352.5034	1772990.451	1622737.256	7214.054	—
	GPS	LeftBankTop	42352.50419	1772983.5	1622744.295	7201.88	—
	GPS	LeftBankTop	42352.50433	1772982.847	1622745.212	7201.627	—
	GPS	LeftBankTop	42352.50451	1772983.212	1622749.977	7202.006	—
	GPS	LeftBankTop	42352.50477	1772981.845	1622756.385	7201.65	—
	GPS	LeftBankTop	42352.50494	1772980.514	1622761.034	7201.661	—
	GPS	LeftBankTop	42352.50637	1772977.814	1622770.151	7201.344	—
	GPS	LeftBankTop	42352.50659	1772975.012	1622773.393	7201.232	—
	GPS	LeftBankTop	42352.50679	1772970.895	1622777.574	7200.389	—
	GPS	RightBankTop	42352.50769	1772969.778	1622776.56	7200.465	—
	GPS	RightBankTop	42352.50803	1772970.873	1622774.96	7200.742	—
	GPS	RightBankTop	42352.50817	1772971.459	1622774.305	7200.857	—
	GPS	RightBankTop	42352.50833	1772972.76	1622772.304	7200.706	—
	GPS	RightBankTop	42352.50918	1772975.028	1622764.76	7201.224	—
	GPS	RightBankTop	42352.50986	1772976.372	1622760.394	7201.006	—
	GPS	RightBankTop	42352.51051	1772976.411	1622759.59	7201.103	—
	GPS	RightBankTop	42352.51152	1772977.047	1622756.78	7201.125	—
	GPS	RightBankTop	42352.51199	1772977.659	1622755.586	7200.896	—
	GPS	RightBankTop	42352.5133	1772977.084	1622752.323	7200.757	—
	GPS	RightBankTop	42352.51352	1772976.512	1622751.005	7200.942	—
	GPS	RightBankTop	42352.51883	1772976.403	1622750.776	7200.826	—
	GPS	RightBankTop	42352.51902	1772977.067	1622746.239	7200.701	—

Appendix B - 2015 Geomorphic Changes in Sandia Canyon Reach S2 Survey Data

Site	Type of Survey ^a	Purpose	Date Surveyed	Y	X	Z	Calculated Distance in Section or Profile (ft) ^b
	GPS	RightBankTop	42352.52316	1773071.426	1622682.432	7202.296	—
	GPS	RightBankTop	42352.65714	1773065.19	1622684.952	7202.192	—
	GPS	RightBankTop	42352.65744	1773055.397	1622689.459	7202.1	—
	GPS	RightBankTop	42352.65763	1773048.089	1622692.052	7202.43	—
	GPS	RightBankTop	42352.65773	1773047.448	1622691.557	7202.49	—
	GPS	RightBankTop	42352.65786	1773045.77	1622692.05	7202.356	—
	GPS	RightBankTop	42352.658	1773044.301	1622695.141	7202.137	—
	GPS	RightBankTop	42352.65817	1773040.191	1622696.754	7201.949	—
	GPS	RightBankTop	42352.65829	1773038.887	1622697.176	7202.141	—
	GPS	RightBankTop	42352.65843	1773034.631	1622699.815	7201.908	—
	GPS	RightBankTop	42352.65909	1773027.867	1622703.728	7201.797	—
	GPS	RightBankTop	42352.65925	1773024.411	1622704.254	7201.207	—
	GPS	RightBankTop	42352.65943	1773023.242	1622703.903	7202.303	—
	GPS	RightBankTop	42352.65957	1773018.013	1622706.351	7202.739	—
	GPS	RightBankTop	42352.65973	1773010.586	1622711.123	7202.394	—
	GPS	RightBankTop	42352.65987	1773006.326	1622712.391	7202.056	—
	GPS	RightBankTop	42352.66008	1773004.449	1622714.591	7201.197	—
	GPS	RightBankTop	42352.66024	1773000.725	1622716.142	7201.371	—
	GPS	RightBankTop	42352.66038	1772998.445	1622717.597	7201.373	—
	GPS	RightBankTop	42352.66051	1772996.827	1622719.695	7201.153	—
	GPS	RightBankTop	42352.66146	1772993.953	1622719.902	7201.396	—
	GPS	RightBankTop	42352.66162	1772990.489	1622723.212	7201.522	—
	GPS	RightBankTop	42359.58792	1773006.895	1622711.696	7202.413	—
	GPS	RightBankTop	42359.58968	1773000.031	1622716.524	7201.911	—
	GPS	RightBankTop	42359.58995	1772996.615	1622719.617	7201.412	—
	GPS	RightBankTop	42359.59012	1772993.943	1622720.116	7201.764	—
	GPS	RightBankTop	42359.59057	1772990.648	1622722.793	7201.604	—

Appendix B - 2015 Geomorphic Changes in Sandia Canyon Reach S2 Survey Data

Site	Type of Survey ^a	Purpose	Date Surveyed	Y	X	Z	Calculated Distance in Section or Profile (ft) ^b
	GPS	RightBankTop	42359.59073	1772988.504	1622723.579	7200.088	—
	GPS	RightBankTop	42359.59093	1772988.426	1622723.671	7200.138	—
	GPS	RightBankTop	42359.59125	1772986.618	1622725.763	7201.237	—
	GPS	RightBankTop	42359.59138	1772986.751	1622727.264	7201.304	—
	GPS	RightBankTop	42359.59792	1772982.77	1622730.007	7201.248	—

^aTS = Trimble M3 total station survey method, GPS = Trimble 5700 global positioning system (GPS) survey method

^bDistances are calculated in a straight line along section, from south to north, relative to the southern benchmark placed during the first survey year for each cross section.

^cTP = thalweg point.

^d— = not applicable (benchmark; not a point on section)

^ePP = plunge pool control point (perimeter of pool)