

# **APPENDIX O**



## **MONITORING CROSS SECTION ENDPOINTS**

<b>Stream</b>	<b>Station</b>	<b>X Coordinate 1</b>	<b>Y Coordinate 1</b>	<b>X Coordinate 2</b>	<b>Y Coordinate 2</b>
Buffalo River	1305	2886745.3	539089.1	2887046.7	539141.4
Buffalo River	6343	2888734.2	537757.5	2888917.6	537599.7
Buffalo River	6686	2888648.5	537271.9	2888825.7	537436.6
Buffalo River	7224	2889167.8	537298.4	2889280.9	537564.4
Buffalo River	8023	2889087.2	536663.2	2889225.6	536874.7
Buffalo River	8515	2889595.6	536881.7	2889393.6	537020.2
Lower Rush River	451	2866381.5	499045.3	2866408.9	498925.6
Lower Rush River	5781	2861192.3	498415.9	2861195.0	498238.2
Lower Rush River	6319	2860649.3	498398.5	2860662.3	498216.9
Lower Rush River	7001	2859971.7	498372.7	2859977.7	498189.7
Lower Rush River	7641	2859332.8	498349.8	2859336.8	498163.4
Lower Rush River	8147	2858828.7	498325.2	2858830.2	498151.3
Lower Rush River	11248	2855703.6	498201.1	2855765.5	498077.2
Lower Rush River	20757	2850364.4	490363.8	2850455.5	490316.7
Lower Rush River	31852	2843922.0	486120.6	2843801.8	486217.0
Lower Rush River	32313	2844138.6	486584.1	2843950.9	486527.0
Lower Rush River	33017	2843367.2	486687.8	2843466.2	486520.6
Lower Rush River	33422	2843196.5	486771.9	2842972.2	486711.3
Lower Rush River	34263	2842627.2	487217.7	2842652.5	487071.6
Maple River	2437	2860673.7	480771.4	2860836.8	480694.9
Maple River	4110	2860608.9	479405.9	2860730.5	479256.8
Maple River	4856	2860703.1	478867.5	2860841.8	478780.1
Maple River	5080	2860579.7	478716.7	2860679.9	478591.4
Maple River	5528	2860298.7	478612.2	2860199.4	478456.8
Maple River	6343	2860272.0	479260.3	2860196.8	479125.9
Maple River	6926	2859651.3	479299.7	2859786.7	479277.7
Maple River	15319	2855437.5	479668.5	2855425.0	479493.8
Maple River	27301	2850103.5	479348.2	2850305.3	479212.0
Maple River	36198	2845327.0	478943.5	2845317.4	478801.7
Maple River	60136	2829264.0	470723.2	2829257.3	470538.9
Maple River	61556	2827950.3	470186.6	2828126.8	470161.3
Maple River	63032	2829112.4	469981.6	2829366.2	470088.8
Maple River	63807	2828716.0	469521.8	2828871.4	469424.5
Maple River	64786	2829111.7	468627.0	2829280.6	468675.2
Red River	2168242	2881904.0	556257.3	2882250.5	555725.1
Red River	2169815	2881272.7	554604.9	2881743.1	554939.1
Red River	2171662	2883312.0	554742.9	2882926.1	555210.8
Red River	2172666	2883717.0	555068.5	2884015.3	555591.2
Red River	2173607	2883468.0	554819.5	2883799.1	554425.4
Red River	2213063	2884075.7	534753.1	2883538.8	534950.5
Red River	2215461	2885004.6	534755.7	2885532.1	534577.2
Red River	2216297	2884548.0	534543.1	2884561.2	533929.1
Red River	2218040	2884096.7	532934.5	2884700.2	533078.9
Red River	2219762	2884250.3	531082.6	2884944.7	531604.5
Red River	2219883	2884503.4	531076.6	2884883.9	531465.0
Red River	2254328	2886039.0	517838.2	2886792.3	518195.9
Red River	2288183	2886308.3	499808.6	2887145.8	499825.4

Red River	2326223	2896230.3	482008.7	2896535.7	481972.8
Red River	2327829	2896558.1	480374.3	2896528.1	480794.8
Red River	2329144	2897350.2	481577.2	2897008.8	481747.0
Red River	2330341	2897855.7	481718.6	2898155.3	481728.5
Red River	2331404	2898671.1	481316.4	2898482.3	481431.2
Red River	2359548	2899674.3	473743.1	2899914.8	473576.6
Red River	2380772	2898325.1	463177.7	2898656.4	463375.8
Red River	2389326	2898689.3	456682.7	2898901.4	456953.7
Red River	2391645	2899562.4	455123.6	2899695.9	454858.6
Red River	2392726	2898692.8	455449.1	2898543.7	455173.3
Red River	2394365	2897336.1	454982.9	2897659.7	455016.3
Red River	2396536	2899061.2	453938.0	2898934.1	454232.9
Red River	2400488	2898901.1	453169.4	2899149.5	452857.8
Red River	2437441	2895458.6	436063.6	2895907.0	436236.9
Red River	2447638	2897344.0	431100.7	2897631.8	430934.0
Red River	2447861	2897230.7	430810.3	2897626.6	430822.0
Red River	2448376	2897609.6	430238.7	2897825.8	430652.8
Red River	2448951	2898027.6	430026.5	2898429.9	430296.0
Red River	2450093	2897707.7	429286.4	2898063.2	428866.2
Red River	2461526	2897657.6	424949.5	2898076.8	425057.3
Red River	2482650	2898793.6	418600.1	2898924.1	419193.0
Red River	2483883	2899693.7	418496.8	2900234.9	418657.2
Red River	2485429	2898975.8	418224.8	2898877.9	417855.0
Red River	2486290	2898181.7	417523.2	2898478.1	417773.4
Red River	2487004	2899013.8	417458.0	2899043.8	417819.6
Red River	2515597	2899865.5	404867.6	2900221.5	404474.0
Red River	2524451	2898544.8	399727.3	2898853.2	399985.9
Red River	2537700	2899794.6	392831.2	2900144.0	392887.0
Red River	2562789	2897773.0	383984.4	2898151.2	384038.9
Red River	2600275	2903894.9	370115.4	2903603.3	370347.4
Red River	2601773	2903883.6	369162.0	2904450.1	369164.8
Red River	2602853	2903491.2	369039.4	2903409.3	368451.0
Red River	2604516	2902533.9	367813.1	2903012.9	368186.0
Red River	2606709	2904604.6	368265.4	2904255.9	368570.9
Red River	2672724	2912171.0	345834.3	2912396.2	345774.4
Red River	2751865	2920268.6	315963.8	2920592.8	315676.8
Red River	2753951	2919999.9	313985.8	2920276.6	314247.9
Red River	2755907	2921149.2	314703.5	2921752.4	315026.3
Red River	2757521	2922243.9	314463.2	2922588.1	314304.6
Red River	2758459	2921630.5	313975.2	2921835.5	313572.0
Red River	2762274	2922549.6	311833.6	2922947.2	311710.4
Rush River	394	2865965.8	505229.2	2866134.6	505061.2
Rush River	853	2865674.9	504992.2	2865723.6	504768.5
Rush River	1620	2865063.4	505249.9	2864957.4	505034.6
Rush River	2295	2864338.0	505263.2	2864352.1	505047.6
Rush River	2843	2863789.4	505232.8	2863805.6	505030.2
Rush River	5509	2861127.9	505127.0	2861141.2	504911.0
Rush River	8106	2858928.0	506245.7	2858828.9	506061.3
Rush River	11119	2855867.2	506194.3	2855871.6	506005.5

Rush River	16519	2850475.3	505884.2	2850482.5	505720.8
Rush River	22925	2845318.6	502794.9	2845320.8	502593.6
Rush River	32441	2839313.0	497016.9	2839435.5	496932.5
Rush River	32995	2838953.7	496603.0	2839102.8	496470.8
Rush River	33312	2838898.9	496223.6	2839068.9	496240.4
Rush River	33536	2838921.1	496028.5	2839077.8	495993.6
Rush River	34225	2838438.3	495676.6	2838525.7	495529.1
Sheyenne River	22176	2872728.1	519907.3	2872959.9	519911.7
Sheyenne River	22671	2872425.3	519798.5	2872454.8	519597.2
Sheyenne River	23343	2871828.4	519340.5	2872091.4	519285.4
Sheyenne River	24079	2872350.1	518779.2	2872384.3	519016.1
Sheyenne River	24800	2872717.0	518459.8	2873022.3	518435.6
Sheyenne River	25281	2872459.8	518433.5	2872460.4	518175.8
Sheyenne River	61081	2867021.4	504481.7	2867423.7	504299.8
Sheyenne River	61476	2866776.3	504041.0	2867333.0	504112.6
Sheyenne River	62211	2867313.2	503360.2	2867595.5	503653.4
Sheyenne River	62779	2867662.9	503017.3	2867984.5	503179.5
Sheyenne River	63689	2867181.7	502498.2	2867638.3	502462.2
Sheyenne River	63841	2867329.9	502344.0	2867511.0	502308.8
Sheyenne River	95819	2862935.6	484346.0	2863082.1	484474.7
Sheyenne River	96617	2863620.2	483878.0	2863645.3	484067.5
Sheyenne River	97398	2863995.7	483707.7	2863999.9	483484.4
Sheyenne River	98184	2863276.3	483900.1	2863223.1	483687.2
Sheyenne River	99142	2862238.8	483651.3	2862424.7	483511.7
Sheyenne River	115599	2864424.5	475623.2	2864590.5	475628.5
Sheyenne River	117604	2865516.3	473922.0	2865531.3	474036.8
Sheyenne River	117965	2865725.2	473777.1	2865845.4	473779.4
Sheyenne River	118254	2865579.7	473602.6	2865662.4	473466.7
Sheyenne River	118567	2865326.9	473345.8	2865470.2	473337.1
Sheyenne River	119044	2865711.1	473015.3	2865754.4	473147.8
Sheyenne River	139777	2866502.3	460105.2	2866542.6	460189.7
Sheyenne River	140345	2866878.3	459816.0	2866981.3	459818.0
Sheyenne River	140737	2866691.9	459622.4	2866703.2	459535.7
Sheyenne River	141270	2866192.1	459500.5	2866299.8	459480.8
Sheyenne River	141818	2866682.2	459308.7	2866614.5	459368.6
Sheyenne River	158429	2867210.0	449662.4	2867379.2	449794.5
Sheyenne River	189121	2868122.8	431173.2	2868315.0	431232.7
Sheyenne River	189764	2867900.2	430911.2	2867873.8	430721.8
Sheyenne River	190162	2867412.5	430816.0	2867586.8	430681.9
Sheyenne River	191078	2868104.3	430343.9	2868104.9	430537.2
Sheyenne River	191547	2868424.7	430208.3	2868610.7	430362.2
Sheyenne River	225352	2862424.6	413220.3	2862601.9	413356.2
Sheyenne River	228473	2862145.9	410676.6	2862306.0	410838.6
Sheyenne River	229277	2862871.8	410218.1	2862948.2	410490.1
Sheyenne River	229907	2863061.2	409972.6	2863240.5	409804.3
Sheyenne River	230469	2862628.5	409693.8	2862730.8	409506.8
Sheyenne River	230797	2862280.3	409485.3	2862592.8	409315.2
Sheyenne River	231768	2862095.1	408618.5	2862146.2	408864.3
Sheyenne River	232199	2862520.8	408811.3	2862434.7	409045.9

Sheyenne River	255972	2856273.7	396086.1	2856359.6	396289.8
Sheyenne River	294355	2861794.0	381509.2	2861791.1	381659.5
Sheyenne River	295261	2862148.4	381212.2	2862207.6	381026.9
Sheyenne River	296745	2861062.5	380687.8	2860856.2	380469.1
Sheyenne River	297566	2860984.4	381399.2	2860855.8	381164.8
Sheyenne River	298924	2859602.1	380921.8	2859911.5	380910.5
Sheyenne River	300115	2859947.5	380073.2	2860192.9	379993.7
Sheyenne River	316964	2859399.4	378233.3	2859396.9	378023.1
Sheyenne River	337323	2853458.3	374334.1	2853664.5	374323.9
Wild Rice River	3145	2896310.2	420152.2	2896438.1	419819.2
Wild Rice River	15906	2893333.3	419279.6	2893586.3	419145.8
Wild Rice River	16210	2893312.9	418872.8	2893512.5	419063.0
Wild Rice River	16687	2893703.8	418804.0	2893929.4	418969.3
Wild Rice River	17124	2893642.6	418464.1	2893895.4	418528.2
Wild Rice River	17615	2893773.9	418237.9	2894074.5	418023.4
Wild Rice River	18332	2893273.1	418399.2	2893313.7	418192.5
Wild Rice River	22393	2892684.7	417175.2	2892902.7	417289.5
Wild Rice River	22892	2892800.6	416872.5	2892982.4	416664.2
Wild Rice River	23260	2892569.7	416986.7	2892531.8	416757.3
Wild Rice River	23663	2892064.3	416841.5	2892353.6	416770.8
Wild Rice River	24208	2892192.8	416297.4	2892497.5	416292.7
Wild Rice River	61751	2887127.6	401747.8	2887521.3	401606.3
Wild Rice River	76579	2885033.0	394216.4	2885226.3	394028.6
Wild Rice River	77633	2884354.6	393363.4	2884635.8	393313.3
Wild Rice River	82497	2882956.9	388850.9	2883278.8	388699.1
Wild Rice River	85196	2882729.4	386353.6	2883077.4	386350.3
Wild Rice River	92529	2882821.5	381995.9	2882928.3	381726.9
Wild Rice River	93080	2882385.9	381436.7	2882773.5	381504.1
Wild Rice River	93695	2883108.2	381179.8	2883027.4	381415.4
Wild Rice River	94333	2883513.9	381221.5	2883755.9	381412.5
Wild Rice River	95136	2883345.7	380718.5	2883585.9	380562.2
Wild Rice River	121151	2884716.6	365328.9	2884694.3	365608.0
Wild Rice River	122017	2885493.9	365147.6	2885604.2	365401.6
Wild Rice River	123436	2886281.4	364562.7	2886555.0	364432.5
Wild Rice River	125220	2884723.9	364507.4	2885007.3	364309.6
Wild Rice River	125885	2885026.1	363767.9	2885209.3	363932.3
Wild Rice River	162498	2891310.2	343647.8	2891594.3	343731.6
Wild Rice River	203246	2900882.6	324740.5	2901097.7	324480.2
Wild Rice River	204702	2900485.6	323416.9	2900595.5	323637.1
Wild Rice River	206137	2901449.4	324121.1	2901525.2	324323.3
Wild Rice River	207531	2901312.4	323075.6	2901548.9	323077.1
Wild Rice River	207924	2901562.4	322715.7	2901770.0	322879.3
Wild Rice River	208338	2901937.8	322485.3	2902078.1	322670.2
Wild Rice River	223673	2904234.4	314543.9	2904306.2	314774.0
Wild Rice River	224553	2905017.4	314347.2	2905174.1	314570.5
Wild Rice River	225263	2905081.1	314119.8	2905088.3	313747.2
Wild Rice River	225819	2904729.9	314324.8	2904641.5	314077.4
Wild Rice River	226471	2904085.9	313897.3	2904343.7	313707.5
Wild Rice River	227263	2903666.1	313127.3	2903905.3	313204.8

Wild Rice River	228535	2905042.2	313060.2	2904953.0	313295.7
Wolverton	3106	2901710.2	401505.6	2901705.6	401636.1
Wolverton	3411	2901973.6	401727.7	2901873.9	401763.7
Wolverton	3678	2902009.1	401745.2	2902077.1	401826.6
Wolverton	3932	2902206.5	401888.0	2902146.1	401962.8
Wolverton	4187	2902363.7	401825.7	2902403.9	401927.7
Wolverton	4491	2902337.2	401667.2	2902453.9	401623.1
Wolverton	7174	2903937.6	400761.3	2903977.7	400943.5
Wolverton	10663	2905144.2	398389.5	2905295.9	398428.7
Wolverton	11329	2905595.3	397948.2	2905679.6	398095.0
Wolverton	11704	2905911.2	397751.1	2905965.7	397933.6
Wolverton	12210	2906198.8	397509.9	2906400.4	397593.5

<b>Stream</b>	<b># XS</b>
Buffalo River	6
Lower Rush River	13
Maple River	15
Red River	54
Rush River	15
Sheyenne River	51
Wild Rice River	41
Wolverton	11
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Total	206

Note: X and Y coordinates are in NAD 1983 North Dakota State Plane South FIPS 3302 feet projection