Exhibit -B-

Misty Waters Estates - Burleigh County
Missouri River Flow Data and Water Surface Elevations

Description	Flow Rate (cfs)	Stage @ River Mile 1319.9 Misty Waters Upstream (msl)	Stage @ River Mile 1319.2 Misty Waters Downstream (msl)	Stage @ River Mile 1314.5 Bismarck Gage (feet)	Elevation @ River Mile 1314.5 Bismarck Gage (msl)
	9,300	1625.6	1625.1	3.5	1621.8
	10,660	1626.1	1625.6	4	1622.3
	13,700	1627.1	1626.6	5	1623.3
	19,500	1628.1	1627.6	6	1624.3
	21,000	1629.1	1628.6	7	1625.3
Average Flow	*25,000*	1630.1	1629.6	*8*	*1626.3*
	31,000	1631.1	1630.6	9	1627.3
	36,500	1632.1	1631.6	10	1628.3
	42,500	1633.1	1632.6	11	1629.3
	49,500	1634.1	1633.6	12	1630.3
Winter Ice Stage	*57,500*	1635.1	1634.6	*15*	*1631.3*
1997 High Flow	*59,000*	1635.7	1635.2	*13.58*	*1631.88*
	65,960	1636.0	1635.5	13.94	1632.24
	66,500	1636.1	1635.6	14	1632.3
1975 High Flow	*68,900*	1636.3	1635.8	*14.84*	*1632.84*
	74,505	1637.1	1636.6	15	1633.3
	82,510	1638.1	1637.6	16	1634.3
	90,516	1639.1	1638.6	17	1635.3
100-Yr Flood Stage	*94,000 cfs*	*1638.8*	*1638.3*	*17.4*	*1635.7*
Projected 100-Year	*94,000 cfs*	*1639.5*	*1639.2*	*18.15*	*1636.5*
				Increase (feet)	*0.75*
					100-Yr Flood Stage
					Projected 100-Year

Estimated Flows (cfs) - Missouri River FIS

Frequency	*Missouri River above the Heart River*	*Missouri River below the Heart River*
10-Year	57,000	88,500
50-Year	81,500	81,500
100-Year	94,000	121,500
500-Year	148,000	193,000

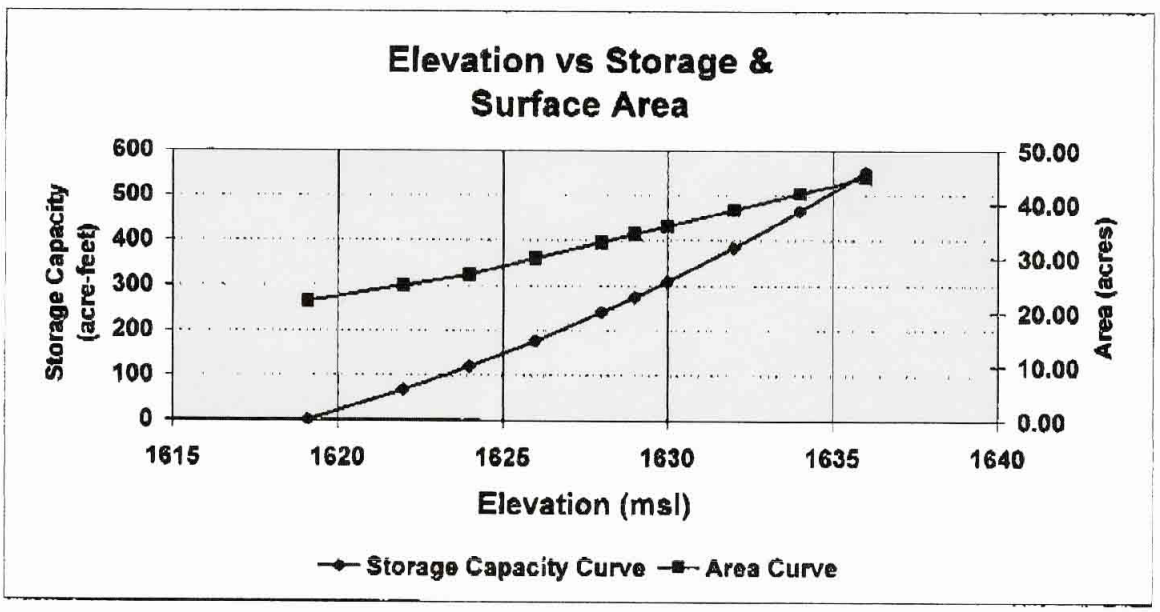
Exhibit C

Estimated Residence Time - Misty Waters Estates

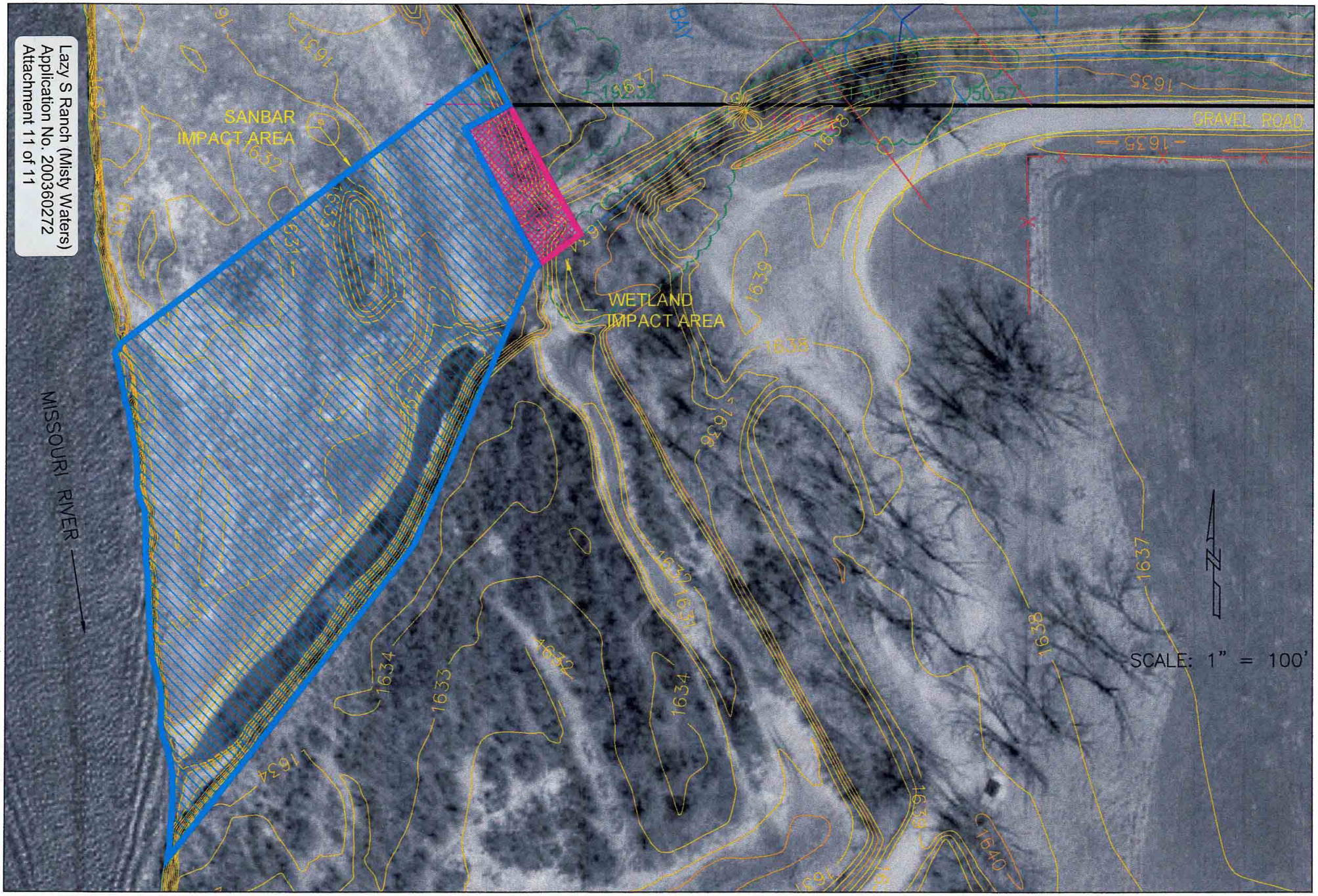
Elevation (msl)	Area (acres)	Voulme (acre-feet)	Combined Storage (acre-feet)	Residence Time 18" RCP (days)	24" RCP (days)	30" RCP (days)	36" RCP (days)
1619.1	22.00	0	0	0	0	0	0
1622	25.00	68	68	12.3	5.7	3.3	2.1
1624	27.00	52	120	21.7	10.1	5.8	3.7
1626	30.00	57	177	32.0	14.9	8.5	5.4
1628	33.00	63	240	43.3	20.2	11.6	7.4
1629	**34.50**	**66**	**276**	**49.5**	**23.1**	**13.2**	**8.4**
1630	36.00	69	309	55.8	26.0	14.9	9.5
1632	39.00	75	384	69.3	32.3	18.5	11.8
1634	42.00	81	465	83.9	39.2	22.4	14.2
1636	45.00	87	552	99.6	46.5	26.6	16.9
			Estimated Flow (cfs)	2.8	6	10.5	16.5
			Approximate Velocity (fps)	1.6	1.9	2.1	2.3

Notes:

Residence times assume fully open gate and unrestricted flows.
Conveyance capacity is based on a head differential of 0.5 feet across the pipe and a length of 650 feet
Base residence time is determined using elevation 1629 and a flow of approximately 21,000 cfs.



Lazy S Ranch (Misty Waters)
Application No. 200360272
Attachment 11 of 11



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MISTY WATERS ESTATES
WETLAND AND SANDBAR IMPACT AREA

OWNERS: LAZY S RANCH

BLOCK 22
FIGURE "D"

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