

APPENDIX C – OBJECTIVE MEASUREMENTS AND LOCATIONS DATA

Table 15. Objective measurements and locations data for the 8-month monitoring event (May 2005).

Section	MP	Location - DCP - Silt					Washboarding Depths (mm)					Raveling Depths (mm)			Rutting Depths (mm)				Pothole Depths (mm)							
		DCP Test Location	# Blows to 5" (127mm)	Silt Test 5/18/05 Sampling Time	Comment	1	2	3	4	5	6	Avg. Depth	Section Avg.	Rt. CL	Lt. CL	Avg. Depth	Section Avg.	Rt. WP Avg.	Lt. WP Avg.	Avg. Depth	Section Avg.	# of Potholes	Avg. Depth	Section Avg.	Special Potholes & Other Comments	
I - Terra-Zyme	0.10	LWP	15	4:30 PM	Curve to Lt.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.20					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.30	CL	15	4:35 PM	Curve to Rt.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.40				Curve to Lt.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
II - Ligno-sulfonate	0.10	RWP	21	4:50 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.20					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.30	RWP	19	5:00 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.40					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
III - Penma-Zyme	0.10	LWP	15	5:08 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.20					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.30	LWP	15	5:18 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.40				Steep hill	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	MP 0.43 pothole, 445 mm diameter, 50 mm to loose, 70 mm to hard surface.
IV - Soil Cement	0.10	LWP	17	5:32 PM	Curve to Lt.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.20					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.30	RWP	16	5:42 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.40				Curve to Rt.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
V - Caliber	0.10	LWP	14	5:50 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.20					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.32	LWP	17	5:59 PM	Moved monitoring to avoid damage.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.41				Moved for damage. Area had no fines.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
VI - Mag/Lig	0.10	LWP	22	6:25 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.20					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.30	RWP	14	6:35 PM	3 wheel paths	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.40					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 16. Objective measurements and locations data for the 11-month monitoring event (August 2005).

Section	MP	Location - DCP - Silt				Washboarding Depths (mm)						Raveling Depths (mm)				Rutting Depths (mm)				Pothole Depths (mm)					
		DCP Test Location	# Blows to 5" (127mm)	Silt Test 5/18/05 Sampling Time	Comment	1	2	3	4	5	6	Avg. Depth	Section Avg.	Rt. CL	Lt	Avg. Depth	Section Avg.	Rt. WP Avg.	Lt. WP Avg.	Avg. Depth	Section Avg.	# of Potholes	Avg. Depth	Section Avg.	Special Potholes & Other Comments
I - Terra-Zyme	0.15	RWP	28	10:20 AM	Straight	8	10	8	5	8	0	6.5	10	6	11	9	0	0	0	0	0	0	0	0	Pothole in MP 0.48 measurement area, 270 mm diameter, 48 mm to loose, 68 mm to hard surface.
	0.25	LWP	30	10:45 AM	Straight	8	7	9	8	11	7	8.3	12	5	11	9.3	0	0	0	0	0	0	0	0	
	0.38	RWP	25	11:00 AM	Slight curve to Lt.	6	5	5	5	4	5	5	13	10	5	9.3	3	4	3.5	3	4	3.5	0	0	
	0.48	LWP	21	11:10 AM	Curve to Lt.	8	4	5	4	3	2	4.3	6	19	8	7	11	9.8	8	7	11	9.8	1	68	
II - Ligno-sulfonate	0.15	RWP	62	11:20 AM	Straight	0	0	0	0	0	0	0	6	6	7	6.3	3.5	0	1.8	0	0	0	0	0	
	0.25	LWP	41	11:30 AM	Straight, just before curve Lt.	6	3	3	0	0	2	2	6	3	2	3.7	4.5	0	2.3	0	0	0	0	0	
	0.38	LWP	45	11:40 AM	Straight	0	0	0	0	0	0	0	11	9	7	9	0	4	2	0	0	0	0	0	
	0.48	RWP	46	11:50 AM	Straight	0	0	0	0	0	0	0	0.5	8	8	6	7.3	6.6	0	1.5	0.8	1.7	0	0	
III - Perma-Zyme	0.15	LWP	26	12:05 PM	Straight	10	12	11	17	15	15	13	13	13	19	15	6	5.5	5.8	0	0	0	0	0	MP 0.43 pothole, 420 mm diameter, 27 mm to loose, 47 mm to hard surface.
	0.25	RWP	25	12:15 PM	Straight	5	0	0	7	7	7	4.3	8	12	20	13	15	15	1.5	1.5	0	0	0	0	
	0.38	LWP	25	12:25 PM	Straight and on upper part of hill	0	0	0	0	0	0	0	10	16	14	13	13	9	11	0	0	0	0	0	
	0.48	RWP	32	12:35 PM	Straight, just before boat ramp area	0	0	0	0	0	0	0	4.4	5	14	9	9.3	13	0	2.5	1.3	8.2	0	0	
IV - Soil Sement	0.15	LWP	29	1:10 PM	Straight	20	18	19	12	11	8	15	17	13	18	16	13	8	11	0	0	0	0	0	
	0.25	RWP	25	1:25 PM	Straight	0	0	0	0	0	0	0	9	10	13	11	6.5	6.5	6.5	0	0	0	0	0	
	0.38	LWP	26	1:40 PM	Straight	18	17	16	10	8	9	13	22	14	16	17	11	0	5.5	0	0	0	0	0	
	0.48	RWP	24	1:55 PM	Straight	0	0	0	0	0	0	0	6.9	22	13	15	17	15	0	0	0	5.6	0	0	
V - Caliber	0.15	LWP	33	2:05 PM	Straight	0	0	0	0	0	0	0	19	17	9	15	0	0	0	0	0	0	0	0	
	0.19	RWP	24	2:15 PM	Straight	0	0	0	0	0	0	0	3	18	9	10	12	9	11	0	0	0	0	0	
	0.38	RWP	33	2:20 PM	Straight. Regraded 1 month ago.	0	0	0	0	0	0	0	3	7	10	6.7	0	0	0	0	0	0	0	0	
	0.53	LWP	45	2:35 PM	On hill	0	0	0	0	0	0	0	3	11	2	5.3	9.3	13	10	12	5.5	0	0	0	
VI - Mag/Lig	0.15	LWP	29	3:15 PM	Straight	0	0	0	0	0	0	0	3	5	8	5.3	0	4	2	0	0	0	0	0	
	0.35	RWP	21	3:25 PM	Slight curve to Lt.	0	0	0	0	0	0	0	9	14	8	10	7.5	0	3.8	0	0	0	0	0	
	0.50	RWP	27	3:35 PM	Straight	0	0	0	0	0	0	0	7	10	8	8.3	4	0	2	0	0	0	0	0	
	0.60	LWP	31	3:45 PM	Straight	0	0	0	0	0	0	0	7	8	7	7.3	7.8	0	0	0	1.9	0	0	0	

Table 17. Objective measurements and locations data for the 20-month monitoring event (May 2006).

Section	Location - DCP - Silt			Washboarding Depths (mm)										Raveling Depths (mm)					Rutting Depths (mm)					Pothole Depths (mm)			
	MP	DCP Test Location	# Blows to 5" (127mm)	Silt Test 5/18/05 Sampling Time	Comment	1	2	3	4	5	6	Avg. Depth	Section Avg.	Rt	CL	Lt	Avg. Depth	Section Avg.	Rt. WP Avg.	Lt. WP Avg.	Avg. Depth	Section Avg.	# of Potholes	Avg. Depth	Section Avg.	Special Potholes & Other Comments	
I - Terra-Zyme	0.05	RWP	31	11:55 AM	Straight & adjacent to Kiosk	8	5	11	4	5	5	6.3		11	13	22	15		8	6	7		0	0		New pothole MP 0.47, 275mm diameter, 35mm to loose, 45mm to hard surface. MP 0.48 pothole, 435 mm diameter, 40 mm to loose, over 127 mm depth.	
	0.18	LWP	33	11:10 AM		Straight	7	7	0	3	0	0	2.8		18	12	11	14		10	13	12		0	0		
	0.33	RWP	34	11:20 AM	End of curve Rt. & Turnout Lt.		8	5	2	0	0	0	2.5		20	16	28	21		10	8	9		0	0		
	0.52	LWP	27	11:30 AM		Gentle curve Rt.	3	4	5	5	4	3	4	3.9		13	10	23	15		12	16	14		10		0
II - Ligno-sulfonate	0.05	RWP	37	11:40 AM	Slight curve Lt.		0	0	0	0	0	0	0		16	8	12	12		7	11	9		0	0		
	0.18	LWP	37	11:55 AM		Straight	0	0	0	0	0	0	0		12	8	16	12		9	4	6.5		0	0		
	0.33	RWP	31	1:05 PM	Straight		0	6	0	5	0	0	1.8		13	7	17	12		6	0	3		0	0		
	0.52	LWP	27	1:20 PM		Straight	0	0	0	0	0	0	0	0.5		13	12	13	13		0	3	1.5		5	0	0
III - Perma-Zyme	0.05	RWP	28	1:55 PM	Straight		0	0	9	0	0	0	1.5		22	7	13	14		5	4	4.5		0	0		MP 0.43 pothole, 420 mm diameter, 39 mm to loose, 55 mm to hard surface.
	0.18	LWP	25	2:05 PM		Straight	12	12	13	10	12	12	12		22	11	26	20		9	7	8		0	0		
	0.33	RWP	35	2:15 PM	Very wide Lt. to boat launch.		0	3	0	3	0	0	1		30	15	12	19		8	8	8		0	0		
	0.52	LWP	25	2:25 PM		Straight	0	0	0	0	0	0	0	3.6		8	14	13	12		9	6	7.5		7	0	
IV - Soil Sement	0.05	RWP	17	2:40 PM	Straight		13	12	13	12	9	11	12		38	22	21	27		11	11	11		0	0		
	0.18	LWP	38	2:55 PM		Straight	11	9	15	14	10	8	11		18	14	27	20		0	0	0		0	0		
	0.33	RWP	21	3:05 PM	Straight		7	10	11	8	6	8	8.3		30	21	18	23		13	15	14		0	0		
	0.52	LWP	21	3:15 PM		Straight	12	9	12	10	10	10	11	10		25	26	19	23		11	10	11		8.9	0	0
V - DCA 2000 Caliber	0.05	RWP	22	3:25 PM	Gentle Hill.		0	0	0	3	5	3	1.8		19	30	23	24		16	20	18		0	0		
	0.18	LWP	41	3:35 PM		Straight. Regraded section.	0	8	5	0	0	0	2.2		17	20	17	18		10	7	8.5		0	0		
	0.35	RWP	24	3:45 PM	Very wide. Turnout on Lt.		0	0	0	0	0	0	0	1		20	15	20	18		7	8	7.5		0	0	
	0.54	LWP	46	4:00 PM		Straight	0	0	0	0	0	0	0	1		10	10	12	11		7	7	7		10	0	0
VI - DMC 820 (Lig/Mag)	0.05	LWP	24	10:20 AM	Straight		0	0	0	0	0	0	0		4	16	16	12		0	0	0		0	0		
	0.25	RWP	28	10:45 AM		Slight curve to Rt.	7	7	10	5	0	0	4.8		10	11	19	13		7	12	9.5		0	0		
	0.45	LWP	22	11:05 AM	Straight		8	7	10	7	4	5	6.8		10	17	16	14		10	2	6		0	0		
	0.55	RWP	25	11:20 AM		Straight	0	4	6	6	4	0	3.3	3.8		11	28	20	20		8	6	7		5.6	0	0

Table 18. Objective measurements and locations data for the 23-month monitoring event (August 2006).

Section	Location - DCP - Silt				Washboarding Depths (mm)				Raveling Depths (mm)				Rutting Depths (mm)				Pothole Depths (mm)									
	MP	DCP Test Location	# Blows to 5" (127mm)	Site Test 5/18/05 Sampling Time	Comment	1	2	3	4	5	6	Avg. Depth	Section Avg.	Rt.	CL	Lt.	Avg. Depth	Rt. WP Avg.	Lt. WP Avg.	Avg. Depth	Section Avg.	# of Potholes	Avg. Depth	Section Avg.	Special Potholes & Other Comments	
I - Terra-Zyme	0.22	LWP	16	9:50 AM	Curve to Rt.	22	0	9	4	15	0	8.3		0	18	60	26	7	13	10		0	0		MP 0.47 pothole left, 280 mm diameter, 30 mm to loose, 50 mm to hard.	
	0.35	RWP	14	10:00 AM	Straight just after curve Rt.	0	10	7	0	5	0	3.7		10	9	35	18	2	2	2		0	0		MP 0.48 pothole left, 310 mm diameter, 20 mm to loose, 25 mm to hard.	
	0.45	RWP	14	10:10 AM	Straight	7	9	7	0	0	0	3.8		28	19	10	19	7	7	7		0	0			
II - Ligno-sulfonate	0.50	LWP	17	10:25 AM	Straight	17	17	16	10	15	15	1.5	7.7	8	19	29	19	20	10	15	13	7.9	0	0		
	0.22	RWP	22	10:35 AM	Straight	0	7	0	3	4	0	2.3		28	8	10	15	0	0	0		0	0			
	0.35	LWP	39	10:45 AM	Straight	0	0	14	10	10	0	5.7		15	10	11	12	0	0	0		0	0			
III - Perma-Zyme	0.45	RWP	23	10:50 AM	Slight curve Rt.	10	0	0	13	17	15	9.2	4.7	7	10	17	11	7	10	17	11	3	1.5	0	0	
	0.50	LWP	24	11:00 AM	Straight	0	0	0	10	0	0	1.7		11	10	15	12	13	7	0	3.5	1.3	0	0		
	0.22	RWP	22	11:10 AM	Straight	0	0	0	13	10	0	3.8		12	9	8	9.7	0	0	0		0	0			
IV - Soil Sement	0.35	LWP	16	11:20 AM	Straight & on hill.	0	0	0	7	0	0	1.2		10	16	14	13	0	0	0		0	0			
	0.45	RWP	13	11:30 AM	Straight	15	15	12	9	7	7	11		18	12	18	16	0	0	0		0	0			
	0.50	LWP	13	11:40 AM	Very wide Lt to boat launch.	0	10	0	0	0	0	1.7	4.4	15	10	10	12	13	0	0	0		0	0		MP 0.43 pothole, 550 mm diameter, 30 mm to loose, 44 mm to hard surface.
V - Caliber	0.22	RWP	17	12:40 PM	Straight	11	10	11	16	14	11	12		8	13	15	12	0	8	4		0	0			
	0.35	LWP	20	12:55 PM	Slight curve Rt.									16	20	21	19									
	0.45	RWP	15	1:05 PM	Shallow turnout Lt.	21	23	15	24	25	26	22		20	20	19	20									
VI - Mag/Lig	0.50	LWP	16	1:15 PM	Straight & deep	19	15	14	12	10	6	13	17	17	19	27	25	24	22	17	10	15	17	14	16	
	0.02	RWP	17	1:30 PM	Straight	0	0	0	0	0	0	0		10	15	15	13									
	0.08	LWP	19	3:50 PM	Straight & on hill. beyond top of hill.	0	10	0	8	0	0	3		14	15	16	15									
VII - Mag/Lig	0.43	RWP	16	4:00 PM	Straight. Surface very hard.	0	0	0	0	0	0	0		0	9	10	6.3									
	0.53	LWP	21	4:10 PM	Straight & on hill. 2' cut on Lt.	0	0	0	0	0	0	0.8		20	30	0	17	13	30	19	25	14	0	0		
	0.18	RWP	15	2:40 PM	Straight	0	0	0	15	14	12	6.8		12	10	10	11									
VIII - Mag/Lig	0.28	LWP	11	2:50 PM	Straight but 100' past curve Rt.	10	12	10	0	0	0	5.3		2	10	12	8									
	0.48	RWP	12	3:00 PM	Straight	10	9	8	6	7	6	7.7		10	11	16	12									
	0.62	LWP	15	3:10 PM	Straight	10	11	10	8	0	9	8	7	13	13	12	13	11	11	7	9	8.6	0	0		