

University of Wisconsin-Extension

GEOLOGICAL AND NATURAL HISTORY SURVEY
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SUMMARY OF PROPERTIES OF BASAL TILL IN OZAUKEE AND WASHINGTON COUNTIES,
WISCONSIN

by

David M. Mickelson and Kent M. Syverson

Open-File Report 1996-06
9 p.

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Summary of properties of basal till in Ozaukee and Washington Counties, Wisconsin

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David M. Mickelson and Kent M. Syverson

These two tables

Properties and location of samples collected in Ozaukee and Washington Counties (6 pages)

and

Appendix B: Summary of properties of basal till of each unit in Washington and Ozaukee Counties (2 pages)

accompany Wisconsin Geological and Natural History Survey Bulletin 91 (1996) by David M. Mickelson and Kent M. Syverson.

Properties and location of samples collected in Ozaukee and Washington Counties.

Co.	Sample			Mat	source	depth (m)	1/4			Sec	Twp Rng		Color	Mag sus	% calc	% dol	% carb.	% Sand	% Silt	% Clay
	No.	Year	Unit				1/4	1/4	1/4		N	E								
Oz	1	85	26	1	3	3.0	NE	NE	NE	28	10	21	10YR5/3	2.1e-03				41	50	9
Oz	2	85	26	1	4	1.0	NW	NE	SE	32	12	21	10YR5/2	1.3e-03				42	40	18
Oz	3	85	6	1	7	2.0	SE	NE	NE	18	9	22	7.5YR5/4	6.2e-03	9	41	50	10	50	39
Oz	4	85	6	1	7	6.0	SW	SW	SW	8	9	22	7.5YR5/2	1.1e-03	5	41	45	12	46	42
Oz	5	85	21	1	4	2.0	SW	NE	NE	22	10	21	10YR5/3	1.8e-03				5	60	35
Oz	6	85	21	1	3	2.5	SW	SE	SE	1	10	21	10YR7/3	1.0e-03	6	40	46	7	61	31
Oz	7	85	21	1	4	2.0	SE	SW	NW	1	10	21	10YR7/3	1.4e-03	7	36	43	11	63	26
Oz	8	85	21	5	4	3.0	SE	SE	NW	11	10	21	10YR5/3	1.6e-03				29	56	15
Oz	9	85	21	1	4	4.0	SE	SE	NW	1	10	21	10YR5/3	1.2e-03	4	21	24	9	63	28
Oz	10	85	26	1	4	6.5	SE	SE	NW	1	10	21	10YR5/3	1.9e-03	7	15	21	41	46	13
Oz	11	85	26	1	4	2.0	NE	SE	SW	30	11	22	5YR5/4	1.5e-03	6	36	42	38	41	21
Oz	1	86	21	1	3	2.0	NW	SE	SE	21	11	21	7.5YR6/4	1.7e-03				10	59	31
Oz	2	86	26	1	4	3.0	NW	SE	SW	16	11	21	10YR7/4	1.5e-03				36	56	8
Oz	3	86	26	1	4	4.0	NW	SE	SW	16	11	21	10YR7/4	1.7e-03				43	49	8
Oz	4	86	26	1	3	6.0	NW	SE	SW	16	11	21	10YR7/4	1.9e-03				35	55	10
Oz	5	86	21	1	3	3.0	SW	SW	SW	9	11	21	10YR7/4	1.1e-03				21	57	22
Oz	6	86	6	1	1	3.0	NW	NE	NE	2	12	22	7.5YR6/4	1.1e-03				16	51	33
Oz	7	86	6	1	7	2.0	NW	SE	NW	1	12	21	10YR6/4	1.1e-03				12	63	25
Oz	8	86	21	1	3	1.5	NE	NW	NW	15	12	21	10YR7/4	1.4e-03				15	65	20
Oz	9	86	26	1	3	1.5	NW	NE	SW	15	12	21	10YR6/4	2.4e-03				31	53	16
Oz	10	86	21	1	3	1.5	SW	NW	NE	11	12	21	7.5YR7/4	1.5e-03				19	56	25
Oz	11	86	21	1	3	2.0	NW	NW	NE	11	12	21	10YR7/4	1.5e-03				14	65	21
Oz	12	86	6	1	3	3.0	SW	SW	SW	17	12	22	7.5YR6/4	8.6e-04				23	46	31
Oz	13	86	6	1	3	3.0	SW	SW	SW	16	12	21	7.5YR6/4	1.2e-03				25	49	26
Oz	14	86	6	1	5	3.0	SE	SE	SW	7	12	23	7.5YR6/4	9.1e-04				18	49	33
Oz	15	86	6	1	5	2.0	SW	SE	SE	24	12	22	7.5YR6/4	1.8e-03				37	46	17
Oz	16	86	6	1	3	6.0	SE	SW	SE	23	12	22	7.5YR6/4	9.6e-04				20	44	36
Oz	17	86	6	1	3	2.0	SW	SW	SW	33	12	22	10YR6/4	8.4e-04				23	53	24
Oz	18	86	6	1	3	2.0	SW	SE	SW	23	12	21	7.5YR6/4	4.1e-04				17	54	29
Oz	19	86	6	2	3	3.0	NE	NE	NE	35	12	21	7.5YR6/4	1.2e-03				29	50	22
Oz	20	86	26	1	3	4.0	SE	SE	NE	28	12	21	10YR7/3	1.0e-03				30	55	16
Oz	21	86	26	1	3	1.5	SE	SW	SE	16	12	21	10YR7/4	3.2e-03				30	52	18
Oz	22	86	21	1	3	3.5	SW	NW	SW	21	12	21	10YR7/4	1.4e-03				7	62	31
Oz	23	86	26	1	3	1.5	SE	NE	SE	20	12	22		1.6e-03				21	58	22
Oz	24	86	26	1	3	3.0	NW	SW	SW	7	12	21	7.5YR6/4	2.0e-03				7	51	41
Oz	25	86	26	4	3	2.0	NW	SW	SW	7	12	21	7.5YR6/4	1.0e-03				54	32	14
Oz	26	86	26	1	3	1.5	NW	SW	SW	7	12	21	7.5YR7/4	1.2e-03				40	45	15
Oz	27	86	27	1	3	2.5	SW	NW	NW	17	12	21	10YR7/4	9.6e-04				62	29	9
Oz	28	86	26	1	3	8.0	SE	SE	NE	18	12	21	10YR7/4	1.3e-03				46	40	14
Oz	29	86	27	1	3	1.5	NE	SE	NE	19	12	21	10YR7/4	1.2e-03				47	42	11
Oz	30	86	26	1	3	1.5	NW	NW	NW	3	11	21	10YR6/4	3.3e-03				36	55	10
Oz	31	86	27	1	3	2.0	SW	SE	SW	5	11	21	10YR8/3	1.6e-03				53	38	9
Oz	32	86	21	1	3	2.0	NE	NE	NE	21	11	21	10YR7/4	2.0e-03				24	57	19
Oz	33	86	26	1	3	2.0	SW	NW	NW	9	11	21	10YR7/4	1.6e-03				36	47	16
Oz	34	86	26	1	3	2.0	NW	NW	NE	27	11	21	10YR7/3	2.7e-03				38	51	11
Oz	35	86	21	1	3	3.0	SW	SE	SW	23	11	21	10YR7/4	1.0e-03				7	69	24
Oz	36	86	26	1	8	6.0	SW	NW	SE	36	11	21	10YR7/4	1.3e-03				37	52	12
Oz	37	86	6	1	3	2.0	SE	SE	NE	2	11	21	7.5YR6/4	8.4e-04				16	54	30
Oz	38	86	21	1	3	3.0	NE	NE	SE	19	9	21	10YR7/4	1.1e-03				4	58	38
Oz	39	86	26	1	3	2.0	SW	SW	SW	5	9	21	10YR6/4	1.6e-03				32	52	17
Oz	40	86	21	1	3	2.0	SW	SE	SW	28	10	21	10YR7/3	1.8e-03				20	58	23
Oz	41	86	21	1	3	1.5	SW	SW	SE	36	11	21	10YR6/4	1.3e-03				10	68	22
Oz	42	86	6	1	3	3.0	SW	SE	SE	31	11	22	7.5YR6/4	9.6e-04				25	50	25
Oz	43	86	6	1	6	3.0	SE	NE	SW	5	10	22	7.5YR6/4	1.3e-03				22	54	24
Oz	44	86	21	1	10	1.2	NE	NW	SE	13	10	21	10YR6/4	6.7e-04				9	50	40
Oz	45	86	26	1	10	1.5	NE	NW	SE	13	10	21	10YR6/4	6.2e-04	9	49	57	29	58	14
Oz	46	86	26	9	3	1.0	SW	NE	NW	13	10	21	10YR5/6	3.1e-03				27	36	37
Oz	47	86	26	1	3	3.0	SW	NE	NW	13	10	21	10YR7/4	2.0e-03				43	41	16
Oz	48	86	21	5	3	1.0	NW	NE	NW	12	10	21					0	0	0	
Oz	49	86	21	1	3	3.0	NW	SW	NW	1	10	21	10YR7/4	1.1e-03				4	64	32
Oz	50	86	21	1	3	1.5	SW	SE	SW	10	10	21	10YR7/4	1.5e-03	11	41	52	21	61	18
Oz	51	86	21	1	3	3.0	NW	NW	NW	14	10	21	10YR7/4	1.4e-03				14	59	27
Oz	52	86	21	1	7	1.0	SE	SE	SE	11	10	21	10YR7/4	1.7e-03	9	39	48	19	63	17
Oz	53	86	26	1	7	2.0	SE	SE	SE	11	10	21	10YR7/4	1.6e-03	8	45	53	36	51	13
Oz	54	86	26	1	3	2.5	NE	NW	NE	4	10	21	10YR7/4	2.2e-02				31	49	20
Oz	55	86	26	1	3	1.0	NE	NW	SW	4	10	21	10YR8/4	1.1e-03	9	53	61	39	45	16
Oz	56	86	26	1	3	2.0	NW	SW	NW	16	10	21	10YR7/4	2.5e-03				36	49	15
Oz	57	86	6	1	3	1.5	NW	SW	SW	16	10	22	7.5YR6/4	5.8e-03	9	53	61	19	50	31
Oz	58	86	6	1	3	3.0	NW	NW	NW	3	10	22	7.5YR6/4	7.9e-04	8	35	43	19	49	33
Oz	59	86	6	1	3	1.2	NW	SW	NW	30	10	21	7.5YR6/4	1.4e-03				30	41	29

Properties and location of samples collected in Ozaukee and Washington Counties.

Co.	Sample			Mat	source	depth (m)	1/4			Sec	Twp Rng			Mag sus	% calc	% dol	% carb.	% Sand	% Silt	% Clay
	No.	Year	Unit				1/4	1/4	1/4		N	E	Color							
Oz	60	86	26	1	3	1.5	NE	NW	NW	36	10	21	10YR6/4	1.4e-03	14	33	47	29	54	17
Oz	61	86	26	1	3	3.0	SE	SE	SW	26	10	21	10YR7/4	1.5e-03	10	47	58	23	65	12
Oz	62	86	21	1	3	1.0	SW	SW	NE	27	10	21	10YR6/6	1.6e-03				15	61	24
Oz	63	86	21	1	3	2.0	SW	SW	NE	27	10	21	10YR6/4	1.4e-03	4	37	41	12	64	24
Oz	64	86	26	1	3	1.5	SE	SE	NW	30	10	21	10YR8/4	1.9e-03	8	54	62	41	49	10
Oz	65	86	6	1	5	3.0	NW	SW	NE	24	12	22	10YR6/4	8.6e-04				24	46	30
Oz	66	86	6	1	5	8.0	NW	SW	NE	24	12	22	10YR6/6	1.2e-03	9	35	44	21	50	29
Oz	67	86	6	1	5	13.0	NW	SW	NE	24	12	22	7.5YR6/4	1.5e-03	8	36	45	22	47	30
Oz	68	86	6	1	5	18.0	NW	SW	NE	24	12	22	7.5YR6/4	1.6e-03				18	50	32
Oz	69	86	6	1	5	23.0	NW	SW	NE	24	12	22	7.5YR6/4	1.3e-03	6	35	41	20	51	29
Oz	70	86	6	1	5	28.0	NW	SW	NE	24	12	22	7.5YR6/4	1.3e-03				21	46	32
Oz	71	86	6	1	5	33.0	NW	SW	NE	24	12	22	7.5YR6/4	1.4e-03	8	34	42	22	47	31
Oz	72	86	6	1	5	38.0	NW	SW	NE	24	12	22	7.5YR6/4	1.4e-03	7	34	41	20	48	32
Oz	73	86	6	1	5	43.0	NW	SW	NE	24	12	22	7.5YR6/4	1.5e-03				23	45	32
Oz	74	86	6	1	5	48.0	NW	SW	NE	24	12	22	7.5YR6/4	1.5e-03	8	34	41	16	50	34
Oz	75	86	6	1	5	53.0	NW	SW	NE	24	12	22	7.5YR6/4	1.7e-03	10	32	42	21	46	33
Oz	76	86	26	1	5	58.0	NW	SW	NE	24	12	22	10YR6/3	2.4e-03	19	44	63	33	54	13
Oz	77	86	26	1	5	63.0	NW	SW	NE	24	12	22	10YR7/3	2.3e-03				35	52	13
Oz	78	86	6	1	5	8.0	NW	SE	NE	24	12	22	10YR7/4	1.8e-03	6	45	51	39	49	12
Oz	79	86	6	1	5	13.0	NW	SE	NE	24	12	22	10YR7/3	2.6e-03	7	50	58	40	46	14
Oz	80	86	0	1	5	8.0	NW	SE	NE	24	12	22								
Oz	81	86	6	1	5	13.0	NW	SE	NE	24	12	22	10YR6/4	2.0e-03				26	57	17
Oz	82	86	6	1	5	18.0	NW	SE	NE	24	12	22	10YR7/6	2.1e-03	6	49	54	35	50	15
Oz	83	86	6	1	3	3.0	SE	SE	SE	16	10	21	10YR7/6	2.1e-03	7	30	37	37	55	8
Oz	84	86	6	1	1	2.8	SW	NW	NW	6	12	23	7.5YR7/4	1.2e-03				17	46	37
Oz	85	86	6	5	1	2.8	SW	NW	NW	6	12	23	7.5YR6/4	2.1e-03	5	31	36	48	39	13
Oz	86	86	6	1	1	2.8	SW	NW	NW	6	12	23	7.5YR6/4	2.0e-03				16	50	34
Oz	87	86	0	4	6	1.0	SE	NW	NE	34	12	21								
Oz	88	86	0	4	6	4.0	SE	NW	NE	34	12	21								
Oz	89	86	0	4	6	6.0	SE	NW	NE	34	12	21								
Oz	90	86	27	1	6	6.5	SE	NW	NE	34	12	21	10YR8/1					51	37	12
Oz	91	86	26	1	1	1.0	NW	NW	NW	3	11	21	10YR6/4		5	54	59	36	54	10
Oz	92	86	0	4	1	2.5	NW	NW	NW	3	11	21								
Oz	93	86	0	4	1	4.1	NW	NW	NW	3	11	21								
Oz	94	86	0	4	1	6.0	NW	NW	NW	3	11	21								
Oz	95	86	0	4	1	7.5	NW	NW	NW	3	11	21								
Oz	96	86	0	4	1	9.3	NW	NW	NW	3	11	21								
Oz	97	86	0	4	1	11.0	NW	NW	NW	3	11	21								
Oz	98	86	0	4	1	17.0	NW	NW	NW	3	11	21								
Oz	99	86	0	4	1	21.0	NW	NW	NW	3	11	21								
Oz	100	86	0	4	1	24.3	NW	NW	NW	3	11	21								
Oz	101	86	26	1	1	27.7	NW	NW	NW	3	11	21	10YR6/3	2.0e-03	8	56	64	31	53	17
Oz	102	86	26	1	1	29.3	NW	NW	NW	3	11	21	10YR6/3	1.8e-03				27	61	12
Oz	103	86	21	1	1	1.0	SW	SE	NE	10	9	21	10YR7/4	6.5e-04	14	46	60	11	43	46
Oz	104	86	21	1	1	2.7	SW	SE	NE	10	9	21	10YR6/3	1.2e-03	12	48	60	9	51	40
Oz	105	86	21	1	1	4.3	SW	SE	NE	10	9	21	10YR6/3	1.0e-03				8	51	41
Oz	106	86	26	1	1	6.0	SW	SE	NE	10	9	21	10YR7/6	1.3e-03	12	47	59	40	38	22
Oz	107	86	26	1	1	7.7	SW	SE	NE	10	9	21	10YR6/3	1.8e-03	12	47	59	27	56	17
Oz	108	86	26	1	1	9.3	SW	SE	NE	10	9	21	10YR6/3	2.1e-03				30	56	14
Oz	109	86	26	1	1	11.0	SW	SE	NE	10	9	21	10YR6/3	1.7e-03	13	46	59	27	56	17
Oz	110	86	26	1	1	12.7	SW	SE	NE	10	9	21	10YR7/3	1.9e-03	12	47	59	34	51	15
Oz	111	86	26	1	1	14.3	SW	SE	NE	10	9	21	10YR7/4	1.5e-03				36	52	12
Oz	112	86	26	1	1	16.0	SW	SE	NE	10	9	21	10YR6/3	1.6e-03	14	46	59	22	56	22
Oz	113	86	26	1	1	18.3	SW	SE	NE	10	9	21	10YR7/4	9.8e-04	7	64	71	31	59	11
Oz	114	86	6	1	3	1.5	NW	NW	NE	1	9	21	7.5YR6/6	7.7e-04				15	51	34
Oz	115	86	21	1	3	3.5	SE	SW	SE	33	10	21	10YR6/3	1.3e-03	12	46	58	9	61	30
Oz	116	86	21	1	3	1.5	NE	NE	NW	6	9	21	10YR6/4	8.8e-04	7	50	57	6	51	43
Oz	117	86	21	1	3	1.5	NW	NW	SW	6	9	21	10YR6/4	9.4e-04				13	62	25
Oz	118	86	26	1	3	4.0	NW	NW	SW	6	9	21	10YR7/6	8.8e-04	9	46	54	36	50	14
Oz	119	86	26	1	3	2.5	SE	SW	SE	30	10	21	10YR7/4	1.3e-03	8	55	64	37	51	12
Oz	120	86	21	1	4	2.0	NE	SE	SW	9	9	21	10YR6/4	7.2e-04	14	46	60	3	51	46
Oz	121	86	21	1	4	3.3	NE	SE	SW	9	9	21	10YR6/4	3.4e-04				0	41	58
Oz	122	86	21	1	3	2.5	NW	NW	NE	32	9	21	10YR6/4	8.0e-04	15	49	64	5	50	45
Oz	123	86	26	1	5?	5.0	NW	SE	SE	28	9	22	10YR6/2	1.2e-03				30	56	15
Oz	124	86	21	1	5?	4.0	NW	SE	SE	28	9	22	10YR7/3	9.1e-04	12	44	56	7	53	40
Oz	125	86	6	1	5?	2.5	NW	SE	SE	28	9	22	10YR6/3	9.4e-04	6	37	44	13	54	32
Oz	126	86	6	1	5?	1.5	NW	SE	SE	28	9	22	10YR6/3	7.4e-04				9	58	33
Oz	127	86	6	1	3	1.0	SE	NW	NE	24	9	21	7.5YR6/4	7.4e-04	9	29	38	11	54	34
Oz	128	86	6	1	3	1.5	NW	NW	SW	25	9	21	7.5YR6/4	5.8e-04	10	31	41	10	52	38
Oz	129	86	21	1	3	2.0	SE	SE	NE	32	9	21	10YR7/4	8.4e-04				11	54	36
Oz	130	86	21	1	3	2.5	NW	NW	NW	28	9	21	10YR7/4	1.1e-03	15	46	60	13	57	30

Properties and location of samples collected in Ozaukee and Washington Counties.

Co.	Sample			Mat	source	depth (m)	1/4			Sec	Twp Rng		Color	Mag sus	% calc	% dol	% carb.	% Sand	% Silt	% Clay
	No.	Year	Unit				1/4	1/4	1/4		N	E								
Oz	131	86	6	1	3	1.5	SE	SE	SE	14	9	21	7.5YR6/4	5.8e-04	7	31	38	7	51	42
Oz	132	86	6	1	3	3.0	SW	NW	NW	18	9	21	7.5YR7/4	9.1e-04				9	54	37
Oz	133	86	6	1	3	1.5	SW	SE	SW	11	9	21	7.5YR6/4	5.5e-04	10	30	40	8	53	39
Oz	1	88	6	1	5	8.7	NE	SE	SW	33	9	22	10YR7/3	7.9e-04	9	34	43	9	50	41
Oz	2	88	6	1	5	20.0	NW	SE	NW	28	9	22	10YR7/3	6.0e-04	9	33	42	8	50	42
Oz	3	88	21	1	5	27.3	NW	SE	NW	28	9	22	7.5YR7/4	7.4e-04	9	33	42	11	45	45
Oz	4	88	6	1	5		SE	SE	SE				10YR7/3	9.1e-04	8	39	47	9	58	34
Oz	5	88	na		5	19.0	SE	SW	SE	8	9	22	10YR7/4	7.9e-04				8	52	40
Oz	6	88	21	1	5	36.7	SE	SW	SE	8	9	22	7.5YR7/4	7.7e-04				1	47	52
Oz	7	88	6	5	5	13.7	SW	SW	NE	17	9	22	10YR7/4	7.9e-04	9	37	45	9	45	46
Oz	8	88	21	1	5	32.7	SW	SW	NE	17	9	22	7.5YR7/4	6.7e-04				10	46	44
Oz	9	88	6	1	5	1.3	SE	SW	SE	17	9	22	7.5YR7/4	1.2e-03	8	32	40	21	55	24
Oz	10	88	21	5	5	38.7	SW	SW	NE	8	9	22	10YR7/4	1.8e-03				48	47	5
Oz	11	88	21	16	5	32.0	NW	NE	NE	8	9	22	10YR7/4	8.9e-04				6	70	24
Oz	12	88	21	16	5	34.0	NW	NE	NE	8	9	22	7.5YR7/4	8.6e-04				2	53	45
Oz	13	88	21	5	5	36.3	NW	NE	NE	8	9	22	10YR7/3	9.6e-04				1	49	50
Oz	14	88	6	1	5	29.0	NW	SW	SE	5	9	22	7.5YR7/4	9.4e-04	10	38	48	15	44	41
Oz	15	88	6	5	5	29.7	NE	SE	NE	5	9	22	10YR7/4	1.3e-03				0	67	33
Oz	16	88	6	5	5	30.3	NE	SE	NE	5	9	22	7.5YR7/4	1.2e-03				7	74	19
Oz	17	88	21	5	5	40.7	NW	SW	NW	4	9	22	10YR7/3	9.4e-04				1	50	50
Oz	18	88	21	1	5	41.3	NW	NW	NW	4	9	22	10YR7/3	1.0e-03	13	26	39	16	55	30
Oz	19	88	na				SE	SE	SE				7.5YR6/4	9.4e-04				13	49	38
Oz	20	88	6	1	5	15.0	SE	NW	SW	33	10	22	7.5YR6/4	9.8e-04	9	35	44	15	50	35
Oz	21	88	21	1	5	23.3	SE	NW	SW	33	10	22	10YR7/3	1.1e-03				3	56	41
Oz	22	88	21	16	5	33.3	NE	NW	SW	33	10	22	10YR8/2	1.2e-03				7	49	44
Oz	23	88	26	1	5	39.3	SE	NW	SW	33	10	22	7.5YR8/2	1.8e-03				31	57	12
Oz	24	88	21	5	5	35.3	SE	NW	SW	33	10	22	10YR7/4	1.0e-03				2	49	49
Oz	25	88	21	1	5	35.0	NW	SE	NW	33	10	22	10YR7/3	1.1e-03				8	56	37
Oz	26	88	21	1	5	18.3	NE	NE	NW	33	10	22	10YR7/3	1.0e-03				13	55	32
Oz	27	88	6	1	5	13.0	NW	SW	SE	28	10	22	10YR7/3	1.1e-03	12	38	50	17	52	32
Oz	28	88	21	1	5	16.3	NW	SW	SE	28	10	22	10YR7/2	1.3e-03	14	44	59	17	54	29
Oz	29	88	21	5	5	18.7	NW	SW	SE	28	10	22	10YR6/3	1.1e-03				10	46	43
Oz	30	88	21	5	5	16.0	SW	NW	SE	28	10	22	10YR7/3	1.3e-03				18	57	26
Oz	31	88	21	5	5	17.7	SW	NW	SE	28	10	22	10YR7/3	1.3e-03				16	56	28
Oz	32	88	6	1	5	4.0	NW	NW	SE	28	10	22	7.5YR8/4	9.6e-04	10	35	44	15	49	35
Oz	33	88	3	1	5	9.7	NW	NW	SE	28	10	22	7.5YR7/3	1.2e-03	7	36	43	15	47	38
Oz	34	88	21	1	5	22.0	NE	NW	SE	28	10	22	10YR8/2	1.3e-03				21	55	24
Oz	35	88	21	5	5	34.0	NE	SW	NE	28	10	22	10YR8/2	1.3e-03				2	71	27
Oz	36	88	21	16	5	15.7	NE	SW	NE	28	10	22	10YR8/2	1.3e-03				10	58	33
Oz	37	88	21	16	5	12.0	NW	NE	NE	28	10	22	10YR8/3	1.3e-03				25	53	22
Oz	38	88	21	1	5	18.0	NW	NE	NE	28	10	22	10YR8/3	1.1e-03				7	56	37
Oz	39	88	21	16	5	28.7	NW	NE	NE	28	10	22	10YR7/3	1.3e-03				8	58	34
Oz	40	88	21	16	5	32.0	NW	NE	NE	28	10	22	10YR8/3	1.4e-03				13	62	25
Oz	41	88	21	1	5	11.3	NW	NE	SE	21	10	22	7.5YR7/4	8.9e-04				16	48	35
Oz	42	88	6	1	5	2.3	NW	NE	SE	21	10	22	10YR7/3	1.3e-03				17	59	24
Oz	43	88	6	1	5	6.7	NW	NE	SW	33	11	22	7.5YR7/4	1.3e-03	8	33	41	23	47	29
Oz	44	88	21	1	5	25.7	SE	SW	SW	33	11	22	10YR7/3	9.8e-04				20	51	29
Oz	45	88	21	1	5	33.0	SE	SW	SW	33	11	22	10YR8/2	1.6e-03				23	59	18
Oz	46	88	6	1	5	11.3	NE	NW	NW	10	10	22	7.5YR7/4	1.3e-03	5	2	6	19	47	34
Oz	47	88	21	1	5	19.0	NE	NW	NW	10	10	22	7.5YR7/4	1.1e-03	15	39	54	19	51	30
Oz	48	88	21	1	5	27.0	NE	NW	NW	10	10	22	10YR7/3	1.3e-03	17	43	60	19	60	20
Oz	49	88	26	1	5	31.0	SE	SW	NW	10	10	22	10YR7/3	1.4e-03	17	44	61	25	60	15
Oz	50	88	27	1	3	2.0	SE	SW	NE	19	12	21	10YR7/4	1.3e-03				51	39	9
Oz	51	88	21	1	5	32.3	NE	NE	NE	28	11	22	10YR7/3	1.3e-03	11	47	58	17	62	20
Oz	52	88	26	1	5	34.3	NW	NW	NW	27	11	22	10YR8/2	1.6e-03	13	52	64	46	44	10
Oz	53	88	26	1	5	35.3	SE	NW	SE	22	11	22	10YR7/3	1.5e-03	11	50	60	34	51	16
Oz	54	88	26	1	5	22.7	SW	SE	NE	22	11	22	10YR6/4	1.5e-03	11	43	53	38	44	18
Oz	55	88	26	5	5	28.5	SW	SE	NE	22	11	22	10YR6/3	1.5e-03				20	57	23
Oz	56	88	21	5	5	39.0	SW	SE	NE	22	11	22	7.5YR6/4	9.6e-04				11	47	42
Oz	57	88	6	2	5	17.0	NE	NE	NE	11	11	22	7.5YR6/4	1.1e-03				34	47	19
Oz	58	88	6	2	5	14.7	SE	SW	NE	11	11	22	10YR7/4	1.2e-03				38	45	17
Oz	59	88	6	1	5	13.3	SE	SW	NE	11	11	22	7.5YR7/4	1.1e-03	7	30	37	21	43	36
Oz	60	88	21	1	5	24.3	NW	SE	NE	11	11	22	7.5YR7/4	9.8e-04				21	51	28
Oz	61	88	26	1	5	24.0	SE	SW	NE	11	11	22	10YR8/2	1.8e-03	14	46	60	32	54	14
Oz	62	88	na		5		SE	SE	SE				7.5YR7/4	1.2e-03				24	47	29
Oz	63	88	6	1	5	11.7	SE	SW	SE	15	11	22	7.5YR6/4	9.4e-04	13	38	51	20	47	32
Oz	64	88	21	1	5	27.7	SE	SW	SE	15	11	22	10YR7/3	9.4e-04				19	57	24
WN	1	87	41	1	4	2.0	NW	NW	SW	6	10	18	10YR8/4	1.5e-03	3	47	50	42	49	10
WN	2	87	41	1	4	1.5	NW	SW	SW	17	11	18	7.5YR8/4	1.9e-03	3	39	42	49	40	11
WN	3	87	27	1	4	2.0	NE	SE	SW	12	11	21	10YR7/4	1.2e-03	9	49	59	10	56	34
WN	4	87	27	1	7	1.2	SW	SE	SW	26	9	19	10YR8/6	1.2e-03	6	54	60	59	34	7

Properties and location of samples collected in Ozaukee and Washington Counties.

Co.	Sample		Unit	Mat	source	depth (m)	1/4			Sec	Twp Rng		Color	Mag sus	% calc	% dol	% carb.	% Sand	% Silt	% Clay
	No.	Year					1/4	1/4	1/4		N	E								
WN	5	87	41	1	4	4.0	SE	NE	SW	22	10	18	10YR7/6	6.2e-03	4	51	55	78	16	6
WN	6	87	41	1	4	0.8	NW	NW	NW	14	10	18	10YR8/6	4.5e-03	3	60	63	71	20	9
WN	7	87	41	4	4	1.0	NW	SE	SW	11	10	18	10YR6/6	3.9e-03	1	50	51	76	20	4
WN	8	87	41	1	4	1.5	NE	NE	NW	1	10	18	10YR7/4	2.0e-03	3	44	47	62	31	7
WN	11	87	41	1	3	0.5	NE	NE	NE	28	11	18	10YR6/6	4.4e-03	1	55	56	83	13	5
WN	12	87	41	1	4	1.5	SW	SE	NW	30	12	18	2.5Y6/6	1.6e-03	2	52	54	89	9	2
WN	13	87	41	1	3	0.8	SW	SE	SW	19	12	18	2.5Y6/4	1.8e-03	2	52	54	88	11	1
WN	14	87	0	1	3	2.0	SE	NE	NE	24	10	18	10YR8/4	2.1e-03	2	50	53	52	38	9
WN	16	87	41	1	3	0.8	SE	SW	SE	2	11	18	10YR7/6	2.2e-03	2	38	40	54	37	9
WN	17	87	41	1	7	1.0	SE	SE	SE	28	12	18	10YR7/8	1.5e-03	3	48	52	40	45	15
WN	18	87	na				SE	SE	SE											
WN	19	87	41	1	4	0.5	SE	NE	NW	7	11	18	10YR6/6	2.0e-03	1	8	9	40	42	18
WN	20	87	41	1	3	0.5	NW	SE	NW	17	11	18	7.5YR7/6	1.8e-03	3	32	36	48	34	18
WN	25	87	41	2	4	0.4	SE	SW	NW	12	11	18	7.5YR7/6	3.1e-03	2	30	32	67	21	12
WN	26	87	41	2	7	1.0	NW	SW	SW	12	11	18	10YR8/4	2.5e-03	3	41	44	68	25	7
WN	27	87	0	2	7	1.0	SE	SW	SE	14	9	18	10YR7/4	3.1e-03	3	45	48	54	40	7
WN	28	87	0	5	7	1.4	SE	SW	SE	14	9	18	2.5Y7/6	9.6e-04	2	39	41	23	62	15
WN	29	87	na				SE	SE	SE											
WN	30	87	na				SE	SE	SE											
WN	31	87	41	2	7	1.2	SW	SE	NW	18	11	19	10YR6/6	2.9e-03	2	46	48	77	18	4
WN	32	87	41	2	3	0.5	SE	NE	NE	15	11	18	7.5YR7/4	1.1e-03	3	38	41	43	37	20
WN	33	87	27	1	7	1.5	NW	NE	SW	21	10	19	10YR7/6	1.4e-03	5	54	59	53	34	13
WN	34	87	0	0	4	2.0	NW	NW	NE	9	10	19	10YR7/4	2.3e-03			56	35	9	
WN	35	87	27	2	7	0.7	NW	NW	NW	15	9	19	10YR7/6	2.1e-03	8	52	59	54	36	10
WN	36	87	27	1	4	3.5	SW	NW	NE	22	9	19	7.5YR7/4	1.3e-03	4	57	61	52	33	15
WN	37	87	27	2	4	0.8	NW	NE	NW	27	9	19	10YR8/4	1.8e-03	6	54	60	56	32	13
WN	38	87	0	2	3	0.3	NE	SW	SE	13	9	18	10YR7/6	2.4e-03	6	47	52	56	35	10
WN	39	87	0	2	3	0.5	SW	NW	SW	18	9	19	10YR8/4	1.4e-03	5	55	60	56	35	9
WN	40	87	na				SE	SE	SE											
WN	41	87	na				SE	SE	SE											
WN	42	87	0	2	4	0.7	SE	NW	SW	35	10	18	10YR7/6	6.4e-03	4	50	54	68	24	8
WN	43	87	41	1	7	1.9	NW	SE	SE	28	11	18	10YR7/4	2.4e-03	3	41	45	64	26	10
WN	44	87	27	1	3	1.7	NW	SE	SW	30	9	19	10YR8/4	1.6e-03	6	53	58	55	38	8
WN	45	87	27	1	4	2.0	NE	NW	SE	24	9	19	10YR8/6	1.4e-03	5	55	60	69	20	12
WN	46	87	27	0	7	1.9	NE	SE	SE	24	9	19	10YR7/6	2.6e-03	4	47	51	40	54	5
WN	47	87	27	1	4	0.7	SE	NE	SE	27	9	19	10YR7/4	1.1e-03	6	60	66	50	36	14
WN	48	87	27	2	4	3.5	NW	SW	SW	26	9	19	10YR8/3	1.3e-03	6	56	61	41	46	13
WN	49	87	na				SE	SE	SE											
WN	50	87	27	1	7	3.0	NW	NE	NE	9	11	19	10YR8/4	1.3e-03	5	53	58	52	37	11
WN	51	87	27	1	7	1.5	SW	SW	SE	4	11	19	10YR8/4	1.4e-03	2	52	54	62	29	9
WN	52	87	49	1	7	1.5	NE	NW	NW	11	11	19	5YR6/4	1.8e-03	2	10	12	46	33	22
WN	53	87	0	1	7	1.8	SW	NE	SE	26	10	18	10YR7/6	3.1e-03	2	47	49	58	31	10
WN	54	87	41	5	4	1.1	NW	SW	SW	18	9	18	7.5YR7/4	2.0e-03	5	38	43	37	44	19
WN	55	87	41	2	3	1.2	SW	SW	SW	33	12	18	10YR8/6	1.8e-03	3	51	55	63	29	7
WN	56	87	41	2	3	0.4	NW	NE	NE	17	12	18	10YR7/6	1.6e-03	4	47	51	46	40	13
WN	57	87	41	1	7	2.0	NW	NE	NE	18	12	18	7.5YR8/4	1.8e-03	3	47	50	48	36	17
WN	58	87	41	1	3	1.2	SW	NW	SW	4	12	18	10YR7/6	1.6e-03	4	55	59	64	27	9
WN	59	87	41	2	3	0.6	NW	NW	SW	17	12	19	7.5YR8/4	1.9e-03	1	54	55	45	41	14
WN	60	87	27	2	7	1.2	SE	NW	NW	22	10	19	10YR7/4	1.7e-03	2	52	54	49	37	15
WN	61	87	27	1	4	2.0	NE	SW	NE	34	10	19	10YR8/4	1.8e-03	3	53	56	60	29	11
WN	62	87	27	2	4	1.0	SW	NW	SW	14	10	19	10YR8/4	1.1e-03	3	54	58	40	50	10
WN	63	87	27	2	7	0.8	SW	SW	NW	11	9	19	10YR7/6	1.6e-03	2	55	57	55	34	11
WN	64	87	21	2	7	1.3	NE	SW	SW	34	9	20	10YR8/4	4.2e-03	11	49	59	43	44	13
WN	65	87	21	2	7	1.2	NE	SE	SW	33	9	20	7.5YR7/4	1.3e-03	8	48	56	13	49	38
WN	66	87	27	2	7	2.0	NE	SE	SW	33	9	20	7.5YR7/4	1.6e-03	8	44	52	39	53	8
WN	67	87	27	1	4	1.7	SE	SW	NW	19	9	20	10YR8/4	1.2e-03	4	62	66	53	38	9
WN	68	87	27	1	4	5.5	NE	SE	SW	19	9	20	10YR8/3	1.0e-03	9	52	60	51	35	14
WN	69	87	27	1	7	1.6	NE	SE	SW	19	9	20	10YR8/4	9.7e-04	3	62	66	47	44	9
WN	70	87	27	2	7	1.0	SW	SE	SE	9	9	19	10YR7/6	1.4e-03	3	54	57	50	42	8
WN	71	87	27	1	7	3.5	NW	SE	SE	9	9	19	10YR8/3	1.6e-03	2	56	58	50	39	11
WN	72	87	27	1	4	1.1	NE	NW	NE	22	10	19	10YR7/4	1.5e-03	3	52	55	51	40	9
WN	73	87	27	2	4	1.0	NE	NW	NE	22	10	19	10YR8/4	4.2e-03	4	52	56	52	37	10
WN	74	87	0	1	4	3.0	SW	SW	NE	19	10	19	10YR7/6	1.6e-03	2	42	44	62	26	12
WN	75	87	27	1	1	2.2	SE	SW	SE	26	9	19	10YR7/4	2.5e-03	4	55	59	51	37	12
WN	76	87	27	1	1	2.4	SE	SW	SE	26	9	19	10YR7/6	1.9e-03	5	56	62	54	32	14
WN	77	87	0	1	1	2.4	SE	SE	NW	36	10	18	10YR8/4	1.8e-03	3	63	66	40	40	20
WN	78	87	0	2	7	1.5	NW	NE	NW	31	10	19	10YR7/6	5.7e-03	2	35	37	39	53	9
WN	79	87	0	1	7	2.8	NW	NE	NW	31	10	19	10YR8/3	4.7e-03	2	37	39	35	54	11
WN	80	87	41	1	1	2.5	SW	SE	SE	5	10	18	10YR7/6	1.4e-03	4	43	47	47	40	13
WN	81	87	41	1	1	4.0	SW	SE	SE	5	10	18	10YR7/4	1.4e-03	2	48	50	46	38	16
WN	82	87	41	1	1	2.4	SW	NW	NW	15	10	18	10YR7/6	2.1e-03	4	45	49	54	32	14

Properties and location of samples collected in Ozaukee and Washington Counties.

Co.	Sample		Unit	Mat	source	depth (m)	1/4			Sec	Twp Rng		Color	Mag sus	% calc	% dol	% carb.	% Sand	% Silt	% Clay
	No.	Year					1/4	1/4	1/4		N	E								
WN	83	87	0	1	1	2.4	SE	SW	NE	4	11	19	10YR7/6	1.5e-03	3	52	55	35	48	17
WN	84	87	0	1	1	3.4	SE	SW	NE	4	11	19	10YR8/4	1.4e-03	3	53	57	33	48	19
WN	85	87	0	1	1	2.4	SE	SW	NE	4	11	19	10YR8/4	3.5e-03	3	48	50	45	45	10
WN	86	87	0	1	1	4.0	SE	SW	NE	4	11	19	10YR8/4	1.5e-03	4	51	55	48	39	13
WN	87	87	41	1	7	2.0	NE	NW	SE	28	12	19	10YR7/4	2.2e-03	3	52	55	60	34	6
WN	88	87	0	2	1	2.4	SW	SW	NE	28	12	19	10YR7/4	3.5e-03	3	43	46	35	46	20
WN	89	87	0	1	1	2.4	SW	SW	NE	28	12	19	2.5Y7/6	5.7e-03	1	36	37	44	37	18
WN	90	87	0	1	1	4.0	SW	SW	NE	28	12	19	10YR8/4	2.2e-03	4	52	56	45	37	17
WN	91	87	41	1	1	2.4	SE	SE	NE	33	12	18	10YR7/6	1.6e-03	2	40	43	48	38	14
WN	92	87	41	1	1	2.4	SW	SE	SW	12	12	18	10YR7/4	1.5e-03	4	49	52	41	44	14
WN	93	87	41	1	1	4.0	SW	SE	SW	12	12	18	10YR8/3	1.7e-03	3	49	51	47	38	15
WN	94	87	41	1	1	4.9	SW	SE	SW	12	12	18	10YR6/3	8.0e-03	3	46	49	49	39	12
WN	95	87	41	5	1	2.4	NE	NW	NW	32	12	19	10YR7/3	1.1e-03	1	48	49	3	78	19
WN	96	87	27	2	1	2.0	SE	NE	SW	24	12	19	10YR6/6	3.2e-03	2	65	67	49	39	12
WN	97	87	0	5	1	2.4	NW	NE	NE	2	9	18	10YR6/4	1.5e-03	2	46	49	18	70	12
WN	98	87	0	5	1	4.0	NW	NE	NE	2	9	18	10YR7/3	1.1e-03	4	44	47	2	63	35
WN	99	87	0	2	1	5.5	NW	NE	NE	2	9	18	10YR7/6	3.0e-03	2	52	54	46	42	13
WN	100	87	27	5	1	8.5	SW	NW	SE	23	9	19	10YR7/3	8.2e-04	15	49	64	5	67	28
WN	101	87	27	1	1	2.4	NW	NE	NE	29	9	19	10YR7/6	3.0e-03	4	55	59	53	37	11
WN	102	87	27	1	1	4.0	NW	NE	NE	29	9	19	10YR7/4	1.3e-03	7	55	61	49	38	13
WN	103	87	41	1	1	1.5	SW	NW	SE	25	10	18	2.5Y7/4	3.0e-03	2	52	54	55	34	11
WN	104	87	41	1	1	3.1	SW	NW	SE	25	10	18	2.5Y7/4	1.5e-03	6	52	58	52	34	14
WN	105	87	41	1	1	4.6	SW	NW	SE	25	10	18	10YR8/4	2.2e-03	3	49	51	48	40	12
WN	106	87	41	1	1	10.7	SW	NW	SE	25	10	18	10YR7/4	1.9e-03	5	50	55	52	35	13
WN	107	87	41	1	1	2.4	NE	NW	SW	18	11	18	10YR7/4	1.7e-03	4	46	50	53	35	13
WN	108	87	41	1	1	2.4	NW	NW	NW	18	11	18	10YR7/4	2.1e-03	4	46	50	49	35	15
WN	109	87	41	2	7	1.3	SW	SW	NE	15	10	18	10YR6/6	1.6e-03	2	51	53	56	38	6
WN	110	87	27	5	4	1.7	NE	NW	SE	24	9	19	10YR7/4	8.6e-04	6	57	63	19	58	24
WN	111	87	27	1	4	2.0	NE	NW	SE	24	9	19	10YR8/3	1.1e-03	4	59	63	64	26	10
WN	112	87	27	2	7	2.5	SW	NW	NW	11	9	19	10YR8/3	1.4e-03	4	59	63	49	34	16
WN	113	87	41	2	4	1.4	NW	SW	SW	6	10	18	10YR8/4	1.3e-03	2	50	52	44	47	10
WN	114	87	41	1	4	2.0	SE	NE	SW	22	10	18	10YR7/4	1.7e-03	2	50	52	57	33	10
WN	115	87	27	2	7	1.7	SE	NW	NW	22	10	19	10YR7/6	1.9e-03	3	49	52	34	57	9
WN	116	87	27	2	4	2.3	SW	NW	NE	22	9	19	7.5YR6/6	1.4e-03	2	50	53	57	36	7
WN	117	87	27	1	4	3.8	SW	NW	NE	22	9	19	10YR8/4	1.5e-03	6	55	61	56	34	10
WN	118	87	49	1	4	3.0	SW	NW	NE	22	9	19	7.5YR7/4	8.6e-04	3	42	45	34	44	22
WN	119	87	27	1	4	4.7	SW	NW	NE	22	9	19	10YR8/4	1.4e-03	4	57	60	53	35	13
WN	1	88	21	13	7	2.0	SE	SE	NE	22	10	19								
WN	2	88	26	1	7	2.0	NW	NE	SE	25	10	19	10YR8/3	1.9e-03			38	48	13	
WN	3	88	26	1	7	2.0	NW	NE	SE	25	10	19	10YR8/2	8.2e-04			31	50	19	
WN	4	88	21	5	7	3.0	NW	NE	SE	25	10	19	10YR8/4	5.5e-04			4	65	32	
WN	5	88	21	1	7	3.0	NW	NE	SE	25	10	19	10YR8/4	3.4e-04			13	61	26	
WN	6	88	21	1	7	2.7	NW	NW	SW	25	10	19	7.5YR8/4	4.3e-04	5	56	61	14	60	26
WN	7	88	21	1	7	1.3	NE	NW	SE	26	10	19	10YR8/4	5.8e-04			12	58	30	
WN	8	88	21	1	7	2.3	NE	NW	SW	30	10	20	10YR7/3	9.6e-04	6	54	60	18	54	28
WN	9	88	21	1	3	2.7	NE	NE	NE	36	9	20	7.5YR7/4	1.1e-03	17	48	64	19	56	26
WN	10	88	21	1	7	2.0	NW	SE	NW	27	9	20	7.5YR7/4	1.2e-03			9	55	36	
WN	11	88	21	1	7	1.5	SW	SE	SE	23	9	20	10YR7/6	1.7e-03	7	50	57	21	62	16
WN	12	88	26	1	7	2.0	NE	SW	NW	21	9	20	10YR8/4	5.8e-04	4	71	75	43	48	9
WN	13	88	26	2	3	1.0	SW	NW	SW	24	10	20	10YR7/4	2.2e-03			40	48	12	
WN	14	88	26	1	10	4.0	SW	SE	SE	6	10	20	10YR8/3	1.1e-03	8	61	68	28	56	16
WN	15	88	21	1	3	4.0	SW	SE	SE	36	11	19	10YR7/4	8.9e-04			3	75	22	
WN	16	88	21	1	3	2.0	NW	SW	SE	36	11	19	10YR7/4	9.4e-04			7	73	19	
WN	17	88	21	1	3	4.0	NW	SW	SE	36	11	19	10YR7/6	1.1e-03	6	55	61	11	68	21
WN	18	88	27	1	7	4.0	SW	NW	NW	4	9	20	10YR8/4	8.4e-04	6	62	68	56	39	5
WN	19	88	26	1	7	1.0	SW	NW	NW	4	9	20	10YR8/3	2.5e-03	6	64	70	43	49	8
WN	20	88	26	1	7	2.5	NW	NE	SW	4	9	20	7.5YR8/4	1.4e-03	7	60	67	39	50	11
WN	21	88	26	5	7	2.8	SE	NW	NW	29	11	20		8.6e-04			96	0	0	
WN	22	88	21	1	3	1.5	NE	SE	NE	29	11	20	7.5YR7/4	8.9e-04	6	57	63	8	63	29
WN	23	88	26	1	4	1.5	SW	SW	NW	12	10	20	10YR8/3	1.3e-03	6	62	68	42	48	10
WN	24	88	21	1	3	1.2	SE	SE	NE	36	11	20	10YR7/6	9.1e-04	15	42	58	10	70	20
WN	25	88	27	1	3	2.0	SW	SW	NE	36	11	20	10YR7/6	4.3e-03			56	34	10	
WN	26	88	21	1	3	2.0	SE	SW	NE	38	11	20	10YR7/4	1.5e-03	13	41	54	10	63	28
WN	27	88	26	5	3	2.5	NE	NE	NE	3	11	20	10YR8/3	8.4e-04			3	59	38	
WN	28	88	27	1	7	2.0	NE	NE	NW	22	10	19	10YR7/6	3.0e-03	4	59	62	60	33	7
WN	29	88	26	5	3	8.5	NW	NW	NW	2	11	20	10YR8/3	1.0e-03			7	62	31	
WN	30	88	26	5	3	3.0	NW	NW	NW	26	12	20	10YR8/4	7.2e-04			2	63	36	
WN	31	88	26	5	1	3.0	SW	NW	SW	23	12	20	10YR7/3	6.7e-04			2	71	27	
WN	32	88	26	1	3	1.0	SE	NW	SW	1	11	19	10YR7/4	9.1e-04			20	57	23	
WN	33	88	26	1	3	2.5	SE	NW	SW	1	11	19	10YR7/3	1.0e-03			7	81	12	
WN	34	88	26	5	3	1.5	NW	SW	SW	25	11	19	10YR7/4	1.1e-03			3	84	13	

Properties and location of samples collected in Ozaukee and Washington Counties.

Co.	Sample			Mat	source	depth (m)	1/4			Sec	Twp Rng			Mag sus	% calc	% dol	% carb.	% Sand	% Silt	% Clay
	No.	Year	Unit				1/4	1/4	1/4		N	E	Color							
WN	35	88	26	5	3	2.0	SW	NW	NW	25	11	19	10YR7/4	7.4e-04				4	53	43
WN	36	88	21	1	7	2.0	NE	SE	SE	15	9	20	10YR7/6	1.6e-03	10	51	61	21	64	15
WN	37	88	49	1	4	2.0				11	11	18	7.5YR7/4	1.4e-03	5	38	43	46	39	15
WN	38	88	49	1	4	2.0				11	11	18	7.5YR7/4	1.7e-03	4	48	51	52	33	15
WN	39	88																		
WN	40	88	27	1	1	2.2				4	8	18	10YR7/4	1.4e-03	4	48	52	54	38	8
WN	41	88	100	1	1	2.1				23	9	18	10YR7/6	3.6e-03				41	43	16
WN	42	88	100	1	1	2.1				23	9	18	10YR7/4	9.4e-04	2	38	40	28	48	24
WN	43	88	0	5	1	2.5				1	10	19	10YR7/6	3.7e-03	4	59	62	50	39	11

Codes:

Counties: OZ = Ozaukee, WN = Washington

Lithostratigraphic units: 0=undifferentiated, 6=Ozaukee M., 21=Oak Creek Fm.,

26=Waubeka M., 27=New Berlin M., 41=Horicon M., 49=Tiskilwa M., 100=undifferentiated Holy Hill Fm.

Material: 0=undifferentiated, 1=till, 2=supraglacial diamicton, 4=fluvial sand and gravel, 5=lacustrine silt and clay,

9=soil, 13=peat, 16=waterlain diamicton, 17=colluvium

Sample source: 1=auger, 3=roadcut, 4=pit, 5=shoreline exposure, 6=stream cut, 7=house excavation, 10=railroad cut

Grainsize based on: sand=2 to 0.0625 mm, silt=0.0625 to 0.002, clay=< 0.002

Note: UTM coordinates and name of collector of sample available from WGNHS.

APPENDIX B: Summary of properties of basal till of each unit in
Washington and Ozaukee Counties

	Magnetic Suscept- ibility =====	Percent Calcite =====	Percent Dolomite =====	Percent Total Carbonate =====	Calc./ Dolo. Ratio =====	Percent Sand =====	Percent Silt =====	Percent Clay =====
Tiskilwa Member								
Mean	0.0014	3.4	34.4	37.8	0.10	44.3	37.3	18.4
Std. Dev.	0.0004	1.5	16.5	17.4		7.8	5.6	4.2
Count	4	4	4	4		4	4	4
Max. value	0.0018	5.4	47.8	51.3		52.1	44.2	22.3
Min. value	0.0009	1.9	10.4	12.3		33.5	32.6	14.7
Undiff. till of the Holy Hill Formation in the Kettle Moraine								
Mean	0.0025	3.0	48.1	51.1	0.06	45.5	39.9	14.6
Std. Dev.	0.0013	1.2	7.0	7.8		9.4	7.1	4.2
Count	17	16	16	16		17	17	17
Max. value	0.0057	5.8	62.6	65.9		62.0	54.0	24.0
Min. value	0.0009	1.4	35.7	37.1		27.7	26.1	9.2
Horicon Member								
Mean	0.0022	3.2	45.9	49.1	0.07	51.2	36.3	12.5
Std. Dev.	0.0015	0.8	4.5	4.7		6.9	5.0	3.0
Count	17	17	17	17		17	17	17
Max. value	0.0080	4.3	54.5	58.8		64.2	45.1	16.8
Min. value	0.0014	1.9	37.8	40.2		40.1	26.5	5.8
New Berlin Member								
Mean	0.0016	4.7	54.6	59.3	0.09	53.7	35.8	10.5
Std. Dev.	0.0007	1.5	6.3	6.1		6.0	6.2	2.3
Count	29	24	24	24		29	29	29
Max. value	0.0043	8.5	62.3	68.0		68.7	55.1	14.6
Min. value	0.0008	1.9	30.2	37.0		37.0	19.8	5.2
Waubeka Member								
Mean	0.0020	9.5	49.3	58.8	0.19	34.6	51.1	14.2
Std. Dev.	0.0027	3.6	10.3	9.6		6.2	5.4	3.7
Count	59	32	32	32		59	59	59
Max. value	0.0221	18.9	71.1	74.9		46.0	65.1	22.2
Min. value	0.0006	3.8	14.9	21.4		20.1	38.4	7.8
Oak Creek Formation								
Mean	0.0012	10.5	44.0	54.5	0.24	12.8	58.2	29.0
Std. Dev.	0.0004	4.0	8.1	8.9		5.7	6.6	8.3
Count	63	31	31	31		63	63	63
Max. value	0.0020	17.3	56.9	64.4		23.9	75.1	46.5
Min. value	0.0003	3.6	20.5	24.1		2.7	43.3	14.9

Ozaukee Member

Mean	0.0013	8.3	35.3	43.7	0.24	16.9	50.2	32.9
Std. Dev.	0.0010	1.6	4.6	4.8		5.1	4.1	4.9
Count	50	28	28	28		50	50	50
Max. value	0.0062	12.5	52.5	61.1		24.7	62.8	42.4
Min. value	0.0004	4.8	29.0	37.1		6.8	43.2	23.9