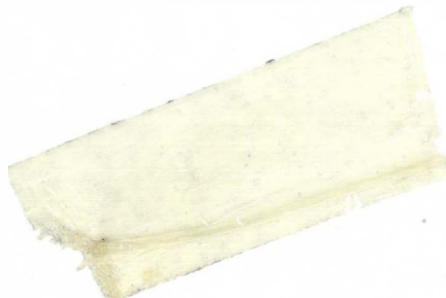


CORRESPONDENCE/MEMORANDUM**State of Wisconsin**

DATE: February 4, 1997
TO: Jim Reyburn - NE region
FROM: Jim Killian - Central Office
SUBJECT: Kewaunee Marsh Sampling Data

FILE REF:

The enclosed disk contains a QuatroPro/text file of all 1996 sampling conducted by DNR Central Office staff at the Kewaunee Marsh arsenic site. In addition to chemical data, the file lists geographic coordinates for each sample location. Copies of this data have been sent to Mike Berger (STS - Green Bay) and Jim Erickson (GeoTrans, Inc.- Boulder, CO). If you have any questions or comments regarding this mailing, please call me at 608-264-6123.



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1996 Kewaunee Marsh DNR Sampling

WSPC NAD 27 Central US feet

ID.	Comments	SP Easting	SP Northing	Date	As (mg/Kg)	Cd (mg/Kg)	Ca (mg/Kg)
Al(mg/Kg)	Sb (mg/Kg)	Ba (mg/Kg)	Be(mg/Kg)				
(mg/Kg) Cr (mg/Kg)	Co (mg/Kg)	Cu (mg/Kg)	Fe(mg/Kg)				
Mg (mg/Kg)	Mn (mg/Kg)	Ni(mg/Kg)	K(mg/Kg)				
Se(mg/Kg)	Na(mg/Kg)	Tl(mg/Kg)	V(mg/Kg)				
Soil Samples							
so-01		2648572.72596	243975.55506	5/21/96	219.10	4100.00	2.00
37.00	0.26	0.80	31000.00		5.20	2.00	6.50
4400.00	38.00	15.90	390.00		ND	180.00	ND
so-02		2648498.38221	244152.4076	5/21/96	39		
so-03		2648798.71474	244153.60294	5/21/96	42		
so-04		2649090.36264	244117.97633	5/21/96	22		
so-05		2649422.9859	243825.40881	5/21/96	150	3300	
		22000			5400	3400	
	5581						
so-06		2649420.93539	243571.48559	5/22/96	200	3100	
		21000			5100	3500	
	5539						
so-07	southeast corner inside chainlink fence			2649291.03277		243299.1488	
5/22/96	72	4300			23000		
6400		3500			5713		
so-08		2648869.78259	243304.97177	5/21/96	6.1		
so-08-02		2648869.78259	243304.97177	5/21/96	2.8		
so-09	south of rr tracks, between spur			2648609.44608		243476.95595	
5/21/96	8.30	1700.00	2.00	27.00	0.10	ND	44000.00
0.60	1.30	4000.00	8.00	4100.00	61.00	37.37	85.00
120.00	ND	4.10	11.00				ND
so-10	inside corner btwn rr tracks and spur			2648516.0394		243599.15993	
5/21/96	35	2100			40000		
4900		4100			4118		
so-11	inside	2649420.93539	243571.48559	5/22/96	240		
so-12-01	in river, 20' d/s of southern inlet (0-16cm)					2649441.03429	
243399.1434		9/10/96	12.17				
so-12-02	in river, 20' d/s of southern inlet (16-32cm)					2649441.03429	
243399.1434		9/10/96	9.35				
so-12-03	in river, 20' d/s of southern inlet (32-47cm)					2649441.03429	
243399.1434		9/10/96	4.16				
so-13-01	hot sedge area (shovel core 0-25cm)			2648630.01103		243871.6017	
9/11/96	692						
so-14-01	hot cattail area (shovel core 0-25cm)			2649255.9087		243798.793	
9/11/96	685						
so-15-01	cattail reference area (shovel core 0-25cm)					2648929.42618	
242609.97061		9/11/96	4.29				

Soil Toxicity As (mg/Kg) Al(mg/Kg) Sb

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(mg/Kg) Ba	(mg/Kg) Cu	Be(mg/Kg)	Fe(mg/Kg)	Cd (mg/Kg)	Pb (mg/Kg)	Ca (mg/Kg)	Mg (mg/Kg)	Cr (mg/Kg)	Mn
(mg/Kg) Ni	(mg/Kg) K	(mg/Kg) S	(mg/Kg) Zn	(mg/Kg) Se	(mg/Kg) Na				
st-01(ref)	125' S of CTH E			5/22/96	2.6	8700	2	48	
0.27	0.8	36000	12	4.3	15	10000	26	10000	110
640	ND	440	ND	20	50.58				
st-02	S of pond 7, about 250' N of cyclone fence					2648767.46274			
243981.23608	5/22/96	150							
st-03	60' from NE corner of cap			2649318.82281		243811.02164		5/22/96	220
st-04	E of SE corner of cap			2649311.00375		243581.25874		5/22/96	220
2600	2	26	0.17	0.6	27000	4.3	1.4	8.3	4700
4000	55	5	1100	ND	150	ND	8.6	25.68	20
st-05	30' E of GW-09, 7' E of cyclone fence			2649413.03567		243474.14247			
5/29/96	67								
st-06	S side of tracks btwn GW-01 and STS well					2648886.03258			
243249.15885	5/22/96	2.2							
Soil Pit Water					As (ug/L)				
pw-01-01	south of tracks, towards river			(unfiltered)		2649391.02905			
243099.15069	5/21/96	7.6							
pw-01-02	south of tracks, towards river			(filtered)		2649391.02905			
243099.15069	5/21/96	1.4							
pw-01-03	south of tracks, towards river			(unfiltered)		2649391.02905			
243099.15069	5/23/96	1.6							
pw-02-1	north side of tracks, off spur			(unfiltered)		2648941.03603			
243449.15352	5/21/96	8500							
pw-02-2	north side of tracks, off spur			(unfiltered)		2648941.03603			
243449.15352	5/23/96	9900							
pw-03-01	between ponds #12 and #6			(filtered)		2648767.46274			
243981.23608	5/22/96	2400	1700					93	
		4.6	35				4.2		
pw-03-02	between ponds #12 and #6			(filtered)		2648767.46274			
243981.23608	5/22/96	1900							
pw-03-03	between ponds #12 and #6			(unfiltered)		2648767.46274			
243981.23608	5/23/96	3000							
Pit Soil					As (mg/Kg)				
kmps-01-01	south of rr tracks 100', west of river 150'					2649391.02905			
243099.15069	5/21/96	4.1	2400					17000	
		5000	2100				4206		
kmps-01-02	south of rr tracks 100', west of river 150'					2649391.02905			
243099.15069	5/21/96	5.4							
kmps-02-01	center of disturbed area - not capped					2648941.03603			
243449.15352	5/21/96	430	4700					27000	
		6900	3500				5255		
kmps-03-01	between ponds #12 and #6, between inner and outer fence								
2648767.46274	243981.23608	5/22/96	63	2200					

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36000	4900	4200			
4507					
kmps-03-02	2648767.46274	243981.23608	5/21/96	40	
Surface Water			As (ug/L)		
KMSW-01-01	grab from pond 1	2648483.25193	244418.1316	5/21/96	1.5
KMSW-02-01	s side of tracks, between spur.	surface water grab			
2648541.03936	243599.15937	5/21/96	180		
KMSW-03-01	s side of pond 10	2648466.04655	243999.15286	5/21/96	360
KMSW-04-01	grab from kew. river dwnstrm. of rr bridge	2649441.02896			
243099.14958	5/21/96	2.4			
KMSW-05-01	north end of small channel near well gw-09	2649477.80447			
243693.9	9/9/96	76			
KMSW-06-01	2649241.04706	244099.13344	5/21/96	60	
KMSW-07-01	2648791.04779	244099.14353	5/21/96	110	
KMSW-08-01	south end of small channel near well gw-09	2649437.51263			
243417.78599	9/9/96	4.6			
Plant Tissue			As (mg/Kg)		
Cattail Ref.	2648929.42618	242609.97061	9/9/96	<.1	
Sedge Ref.	2648929.42618	242609.97061	9/9/96	<.1	
Cattail Low	2648798.71474	244153.60294	9/9/96	<.1	
Sedge Low	2648498.38221	244152.4076	9/9/96	0.7	
Cattail Med.	2648572.72596	243975.55506	9/9/96	0.4	
Sedge Med.	2648572.72596	243975.55506	9/9/96	1.2	
Cattail High	2649255.9087	243798.793	9/9/96	0.4	
Sedge High	2648630.01103	243871.6017	9/9/96	1.6	
G.W. Wells			As (ug/L)	Al (ug/L)	Ca
(mg/L)	Fe (mg/L)	Mg (mg/L)	S(mg/L)		
gw-01	2648894.42124	243174.73649	5/21/96	0.9	
gw-02	2648741.46599	243089.36045	5/21/96	0.9	
gw-05	2648512.37743	243544.40593	5/21/96	60.00	
gw-06	2648767.46274	243981.23608	5/22/96	89.00	
gw-06-02	2648767.46274	243981.23608	5/22/96	220.00	
gw-07	2649047.40076	244008.25075	5/22/96	91	ND
40	0.9				100
gw-08	2649422.9859	243825.40881	5/22/96	310.00	31.00
0.87	16.00				39.00
gw-08-02	2649422.9859	243825.40881	5/22/96	220.00	440.00
38.00	2.10	14.00			
gw-09	2649375.67686	243480.91777	5/22/96	28.00	
gw-10	2648993.20013	243516.33748	5/21/96	310.00	
gw-11	2649157.72664	243222.31205	5/21/96	0.7	ND
32	0.8				92
gw-12	well used for gw datum only		2648923.8385	242909.74068	
gw-13	well used for gw datum only		2648702.26342	242883.70564	
gw-14	well used for gw datum only		2648488.49826	243362.70469	

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gw-15	well used for gw datum only	2648569.08273	243396.95109
sts-mp1		2649441.14723	243789.67534
sts-mp2		2649345.44647	243568.75483
sts-mp3		2649270.73205	243594.78557
sts-mp4		2649259.02597	243419.64713
sts-mp5		2648894.41985	243321.94637
sts-mp6		2648534.54406	244147.0533