Report

Final Report Lower Fox River Operable Unit 1 Remedial Action—2004 Remedial Summary Report

Prepared for

GW Partners, LLC

March 2006

CH2MHILL
135 S. 84th Street
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Report

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Contents

Appendixes

Tables

Figures

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Acronyms and Abbreviations

AOC	Administrative Order on Consent
BMP	Best Management Practice
CD	Consent Decree
CQAPP	Construction Quality Assurance Project Plan
ESD	Explanation of Significant Differences
HPR	Former Huber Property
IDW	investigation-derived waste
lb	pound
LFR	Lower Fox River
LLBdM	Little Lake Butte des Morts
LLC	limited liability corporation
MG	million gallons
NTU	nephelometric turbidity units
O&M	Operation and Maintenance
QA	quality assurance
OU	Operable Unit
PCB	polychlorinated biphenyl
ppm	parts per million
RA	Remedial Action
RAL	Remedial Action Level
RD	Remedial Design
ROD	Record of Decision
SOW	Statement of Work
SWAC	Surface Weighted Average Concentration
TSS	total suspended solids
USCG	U.S. Coast Guard
USEPA	U.S. Environmental Protection Agency
WDNR	Wisconsin Department of Natural Resources
WTP	water treatment plant
yd^3	cubic yards

SECTION 1

Introduction

CH2M HILL prepared this Lower Fox River (LFR) Operable Unit 1 (OU1) 2004 Remedial Action (RA) Summary Report on behalf of GW Partners, LLC, as part of the LFR OU1 RA. GW Partners, LLC, is a limited liability company formed by WTM I Company and P.H. Glatfelter Company to jointly perform the RA.

The 2004 RA Summary Report was anticipated in the 2004 RA Work Plan, Figure 1—LFR OU1 2004 RA Target Schedule. The RA Work Plan was a requirement of the Consent Decree (CD) for the LFR OU1 RA, which was entered into by WTM I Company and P.H. Glatfelter Company; the U.S. Environmental Protection Agency (USEPA); and the State of Wisconsin, through the Wisconsin Department of Natural Resources (WDNR). The U.S. District Court entered the CD on April 12, 2004.

The objective of the 2004 RA Summary Report is to present the data obtained during the 2004 RA. The 2004 RA activities were proposed to achieve the following:

- Confirm the cost-effectiveness and implementability of dewatering OU1 dredged sediments with geotextile tubes
- Determine the type of cutter head to be used for production dredging
- Determine reasonable dredging, treatment, and dewatering operating parameters to refine bids for the 2005 dredging season
- Implement soil preload, if necessary, prior to final dewatering pad construction in 2005
- Allow production dredging to begin in the spring of 2005 instead of in the summer/fall
- Develop a proof of concept for the method of hydraulic sand placement

This 2004 RA Summary Report addresses all of these issues.

1.1 Project Background

The LFR, defined as the 39-mile portion of the Fox River beginning at the outlet of Lake Winnebago and terminating at the river's mouth into the bay of Green Bay, is the most industrialized river in Wisconsin. The LFR has experienced water quality problems since the early 1900s. These problems can be traced back to the mid-1800s, when farm runoff increased sediment and nutrient loads into the river. The expansion of local paper industries and communities served to further degrade the water quality of the LFR through the discharge of increasing amounts of sewage and industrial wastes into the river. Polychlorinated biphenyls (PCBs) were discovered in the LFR in the 1970s.

The LFR's most southerly section, from the outlet of Lake Winnebago to the Upper Appleton Dam, is Little Lake Butte des Morts (LLBdM), also known as OU1. USEPA and WDNR signed the Record of Discussion (ROD) for LFR OU1 and OU2 in December 2002. The ROD

established a RA level (RAL) of 1-ppm PCBs for the cleanup effort in OU1, and estimated that the removal of 784,200 cubic yards (yd^3) of sediment containing 3,770 pounds (lbs) of PCBs would be required to achieve this RAL. If sampling shows that the 1-ppm PCB RAL is not achieved after completing sediment removal (dredging) for OU1, the ROD allows for a surface weighted average concentration (SWAC) of 0.25-ppm PCBs to be used to assess the effectiveness of PCB removal at LLBdM. If the SWAC is not achieved, the remedy selected by the ROD allows for either further dredging or the placement of a sand cover over dredged areas.

The ROD also permits in situ capping to be used as a contingent remedy, which may be employed to supplement sediment removal if the ROD and Statement of Work (SOW) requirements are achieved, as determined by USEPA and WDNR. Evaluation and selection of the capping contingent remedy would be documented in an Explanation of Significant Differences (ESD).

1.2 LFR OU1 Remedial Action

This section provides an overview of the LFR OU1 RA for 2004.

1.2.1 Remedial Action in LLBdM

Based on LLBdM's existing sediment PCB data and its hydrodynamic and bathymetric properties, it is anticipated that sediment removal will occur at least in portions of Sub-areas A, C, D (portion south of the railroad trestle), POG1, POG2, and POG3. These sub-areas are located upstream of the other sub-areas and will be remediated prior to other OU1 sub-areas containing PCBs in excess of the 1-ppm RAL.

The 2004 RA was intended to optimize the parameters necessary for sediment removal beginning in 2005.

If confirmatory sampling determines that the removal of the designated sediment level does not bring the PCB level below 1 ppm or the SWAC below 0.25 ppm, the ROD allows the placement of a clean sand cover over dredged areas. Therefore, the 2004 RA also tested sand placement techniques. However, the 2004 RA scope did not include re-dredging or sand placement to address residual PCB concentrations greater than 1 ppm.

1.2.2 Remedial Action in 2004

The 2004 remedial activities included the following activities:

- Construction of 2000 gallons per minute water treatment facilities (scalable to 4000 gallons per minute)
- Construction of an initial 2004 geotextile tube dewatering pad for dredged sediment
- Dredging of a portion of Sub-area A (Regions IV and VIII(R)) and a portion of Sub-area POG2
- Utilization of 60 ft circumference geotextile tubes for sediment dewatering

- Optimization of dredging operations to minimize turbidity, over-dredging, and residual PCB concentrations
- Optimization of dewatering and water treatment operations
- Determination of the impacts of the freeze/thaw cycle by leaving a portion of the geotextile tubes on the sediment dewatering pad in 2004 for removal and disposal in 2005
- Removal of the majority of the dewatered sediment during the winter months of 2004-05
- Determination of dewatered sediment workability in a licensed landfill
- Expansion of the 2004 sediment geotextile tube dewatering pad berms to enable finishing the pad in the spring of 2005
- Hydraulic placement of sand on a small area of physically representative sediments in northern LLBdM containing PCB concentrations less than or equal to 1 ppm
- Monitoring RA activities and their impacts (sediment removal verification, water treatment, settlement of the geotextile tube dewatering pad, sand thickness, sand/sediment interface, and air/water quality)

SECTION 2

Project Management

2.1 Project Organization

CH2M HILL managed the LFR OU1 2004 RA on behalf of GW Partners, LLC. Figure 2-1 (the organization chart) presents the project team structure. The RA project responsibilities and authorities for various organizations and project team members are outlined in the following subsections.

2.1.1 GW Partners, LLC

GW Partners, LLC, is a limited liability company formed by WTM I Company and P. H. Glatfelter Company, which have jointly entered into the LFR OU1 CD and performed the RA.

2.1.2 CH2M HILL

CH2M HILL was the Supervising Contractor for the LFR OU1 2004 RA. As such, CH2M HILL managed and performed the LFR OU1 2004 RA on behalf of GW Partners, LLC.

2.1.3 CH2M HILL Subcontractors

Detailed design and specifications were developed for the 2004 RA site civil and water treatment plant construction by CH2M HILL. The subcontractors were selected after a conventional bidding process. The site civil and water treatment plant subcontractors selected were:

- Site Work and Dewatering Pad—Reliance Inc.
- Water Treatment Plant:
  - General Construction—Miron Construction Co Inc.
  - Mechanical Construction—August Winter & Sons Inc.
  - Electrical Construction—Town & Country Electric Inc.
  - Instrumentation—Starnet Technologies Inc.

Detailed design and specifications were also developed for the 2004 RA marine construction, and performance specifications were developed for dredging and sand placement. In addition, performance specifications were developed for geotextile tube operation and water treatment plant operation. The subcontractors were selected after a conventional bidding process. The subcontractors selected were:

- Marine Construction and Operations—J. F. Brennan Co. Inc.
- Dewatering & Water Treatment Operation—Infrastructure Alternatives Inc.

2.1.4 Foth & Van Dyke

Foth & Van Dyke, as a direct contractor to GW Partners, LLC, provided construction quality assurance of the geotextile tube dewatering pad liner. During operations, Foth & Van Dyke performed environmental monitoring, confirmation of sediment removal, and the quality assurance of the post-dredge bathymetric survey.

2.1.5 U.S. Environmental Protection Agency

USEPA provided oversight, including review of technical deliverables, review of progress reports and weekly production reports, and periodic site observations and meetings. USEPA also provided an independent bathymetric survey of one dredged area.

2.1.6 Wisconsin Department of Natural Resources

The WDNR provided oversight, including review of technical deliverables, review of progress reports and weekly production reports, and periodic site observations and meetings. WDNR provided the guidance and concurrence that enabled the development of the applicable substantive requirements. WDNR also provided oversight utilizing their subcontractor, Boldt. WDNR representatives attended weekly meetings onsite to offer guidance and observation.

2.1.7 Boldt Oversight Team

The Boldt Oversight Team provided technical oversight support under contract to WDNR.

2.2 Schedule of Activities

The 2004 RA schedule targeted beginning dredging of Sub-area A and process optimization by mid-September 2004. This schedule required that several pieces of equipment be procured in April 2004 with 10-14 weeks for delivery. Construction at the riverside site was to begin in early June 2004 and be completed in early September 2004.

2004 RA dredging operations began August 30, 2004, with the dredging system delivering sediment to the geotextile tubes to optimize coagulants. This dredging was construction dredging to develop an access channel to the site for the dredge and barges. Construction continued with the dredging of the outfall pipe trench. Dredging and optimization of chemistry and dredging techniques began September 15 and continued until early November, when sand placement began.

The 2004 RA schedule, as actually completed, is presented in Figure 2-2.

SECTION 3

Dredging

The intention of the 2004 RA was to test dredging and geotextile tube dewatering under several different conditions. Two different OU1 sub-areas were selected to test the dredging and dewatering system.

3.1 Sediment Dredge Areas

Sub-area A was selected for dredging during the 2004 RA because it was representative of many of the sub-areas to be dredged in later years. The sub-area has sandy and highly organic sediments as well as both heavily vegetated and unvegetated areas. Region IV in Sub-area A was selected because the area is predominantly granular. The sediment within Region IV was generally sandy and gravelly on the eastern portion (nearer midstream) and more fine grained towards the western edge (nearer shore). The area presented a good test of the dredging system and dewatering for heavy sediment. Region VIII(R) in Sub-area A was selected because the area is predominantly fine grained, highly organic material. (Note: "(R)" refers to Region VIII as revised prior to dredging.) In addition, the area is heavily vegetated. Dredging this area allowed the observation of how well the dredge performed in a heavily vegetated area and how well the geotextile tubes dewatered this material as well.

Sub-area POG 2 was selected for dredging during the 2004 RA because the sediment is very light, highly organic, and difficult to dewater.

Table 3-1 lists sediment dredge area characteristics.

TABLE 3-1
Sediment Dredge Areas
Lower Fox River OU1 2004 Remedial Action

Sub-area A	All of Sub-area A	RA Region IV	RA Region VIII(R)
Total Area (sq. feet)	3,127,166	93,073	57,500
Dredge Area (sq. feet)	3,073,247	92,073	57,500
Volume Over 1 ppm (yd^3)	58,250	1,869	2,560
Dredge Ave. Depth (feet)	0.76	0.55	1.20
Sediment Characteristics 0–1 Foot Depth			
Average Percent Solids	56	68	26
Average Organic Content (Percent)	11	8	12
Sediment Characteristics 1-2 Feet Depth			
Average Percent Solids	54	76	46
Average Organic Content (Percent)	7	8	12

Sub-area A Region IV was the first area to be dredged. The area was generally dredged in north to south corridors starting with the easterly west corridor and working westward.

Sub-area A Region VIII(R) was initially dredged after Region IV. The area was generally dredged in north to south corridors starting with the easterly most corridor and working westward. The Sub-area A Region VIII(R) was re-dredged after POG2 dredging and immediately prior to cessation of 2004 RA dredging activities.

3.1.1 Sub-area POG2

Sub-area POG2 is in a navigation channel on the east side of LLBdM just north of the Menasha lock. The sediment is highly organic with low bulk density.

Table 3-2 lists in situ characteristics for POG2.

TABLE 3-2
POG 2 In Situ Characteristics
Lower Fox River OU1 2004 Remedial Action

POG 2	Measure
Total Area	552,058 sq ft
Dredge Area	552,058 sq ft
Volume Over 1 ppm	70,034 yd^3
Dredge Ave. Target Depth	3.78 ft
Average Sediment Characteristics	
0-1 Foot Depth	
% Fines	23.7
% Clay	13.0
Specific Gravity	2.5
% Solids	23.5
% Organic Content	26.0
1-2 Feet Depth	
% Fines	54.0
% Clay	23.3
Specific Gravity	2.6
% Solids	31.1
% Organic Content	9.4

In late October, dredging began in the southern part of POG2 and proceeded north for about 900 feet. The area dredged this year was relatively low in PCB concentrations. Within POG2, there was an area that contained high PCB concentrations, but this area was avoided.

3.2 Dredge System

The dredging system consisted of an 8-inch-diameter discharge swinging ladder cutterhead type of dredge (Dredge Supply Company). Two different types of cutterheads were utilized: serrated and low viscosity. The dredge used spuds to both move the dredge forward and lock the vessel into position during operation. When the dredge was in Sub-area A, the pipeline was almost 2 miles long and an engine-driven booster pump was required. When in Sub-area POG2, the dredge pipeline was roughly 6,000 feet long and no booster pump was necessary.

3.3 Productivity

One of the objectives of the 2004 RA was to determine reasonable dredging and dewatering rates for OU1. It is important to develop these dredging and dewatering rates for OU1 to develop an accurate project schedule and cost estimate. OU1 sediment characteristics directly affect dredging and dewatering productivity. The average sediment cut in OU1 for 1.0 ppm PCB removal is about 1 foot. This shallow cut will result in low volumetric production rates compared to deeper cuts.

The average production rate of the dredge varied with the depth of the cut performed. Sub-area A Region IV had an average target depth of less that 1 foot. Sub-area A Region VIII(R) was slightly deeper and Sub-area POG2's target cut was over 4 feet deep. This resulted in production rates in cubic yards of sediment removed increasing with target depth. Table 3-3 shows the production rates at each sub-area. The dredging subcontractor was able to maintain an overall percent up time of 91.8 with one dredge. However, the overall project percent uptime was lower as it included the geotubes operation. The small size of the dewatering pad caused a certain amount of downtime because of the necessity of consolidating the tubes prior to stacking. During the stacking process, the dredge needed to be stopped to allow the material in the tubes to consolidate. Because of the small size of the pad in relation to the amount of material dredged, there was not enough room to layout other tubes to continue dredging. This production rate issue caused by the geotubes will be minimized with the larger pad which will allow for a more efficient layout and more geotubes. Two rates are shown in Table 3-3, the actual dredge rate and the overall rate with project downtime factored in. It should be noted that the overall project uptime is at a low of 63 percent for Sub-area A Region VIII(R) because out of a total of 8 days, 1 day was lost when a geotextile tube split.

The rates in Table 3-3 do not include the re-dredging of Sub-area A Region VIII(R). The re-dredging of Sub-area A, Region VIII(R) was performed for 7 hours on December 1 after the sand placement in a northern area of LLBdM. The dredge positioning system had been removed from the dredge during sand placement and not reinstalled for this short period.

TABLE 3-3
Production Rates
Lower Fox River OU1 2004 Remedial Action

	Sub-area A IV	Sub-area A VIII(R)	Sub-area POG2	Total
Volume Removed (cubic yards)	4,280	3,700	7,370	15,350
Surface Removal Area (sq. ft.)	91,540	52,785	86,801	231,036
Scheduled Dredge Time (hours)	211	125	212	548
Volume Removed per Scheduled Dredge Time (cubic yards/ hour)	20.3	29.6	34.7	28.0
Surface Removal Area per Scheduled Time (sq. ft./hour)	434	422	409	422
Actual Dredge Operating Time (hours)	171	79	155	405
Actual Versus Scheduled Dredge Operating Time (% project up-time)	81	63	73	74
Volume Removed per Actual Dredge Operating Time (cubic yards/hour)	25.1	47.0	47.5	37.9
Surface Removal Area per Actual Dredge Operating Time (sq. ft./hour)	535	668	560	570

Notes:

1) Volume removed includes overdredge volume.

2) Re-dredge of Sub-area A-VIII (R) (220 cubic yards) not included due to incomplete data.

3.3.1 Sediment Dredge Area and Volume Removed

During the 2004 RA, a total of 17,970 yd^3 of sediment were removed. Hydraulic dredging for the access channel and the treatment plant outfall pipe trench occurred in Sub-areas D and E, a significant portion of which was native clay. That volume was about 2,400 yd^3.

Based on the post-dredge surveys, the entire volume removed from all of Sub-areas A and POG2 amounts to 15,570 yd^3. Prior to the final re-dredging of Sub-area A-VIII (R), the dredge positioning system had been removed, which resulted in a lack of detailed operating data. Therefore, the re-dredging volume of VIII (R) was not included in the productivity data shown in Table 3-3. The volume without the re-dredging of VIII(R) was 15,350 yd^3. The scheduled dredge operating time in Sub-areas A and POG2 was 548 hours (does not include time for re-dredging VIII(R)). The overall production rate based on scheduled dredge time (includes downtime for any reason compared to schedule) was 28.0 yd^3/hour.

Table 3-4 lists sediment removal area and volume.

TABLE 3-4
Sediment Removal Area and Volumes
Lower Fox River OU1 2004 Remedial Action

Location	Total Sediment Removed[a] (yd^3)	Targeted Sediment Remaining[b] (yd^3)	Overdredge Volume (yd^3)	Area of Dredge (acres)	Average Overcut (inches)	Percent of Region Achieving Target Elevation[c]
Sub-area A Region IV	4,280	1	2,030	2.1	7.2	99.5
Sub-area A Region VIII(R)	3,700	24	1,130	1.2	7.0	91.8
Sub-area A Region VIII(R) Re-dredge	220	60	140	0.6	1.7	N/A
POG2	7,370	15,850	3	2.9	N/A	<1

[a] Sediment volume removed is in situ volume from post-dredge survey.

[b] Targeted Sediment Remaining includes area where targeted elevation could not be achieved because clay or rock was encountered above target elevation. This included Sub-area A-VIII(R) and all of POG2.

[c] Per Cent of Region Achieving Target Elevation, does not include those areas where target elevation could not be achieved because clay or rock was encountered above that elevation in Sub-area A-VIII(R) and all of POG2

N/A = Not Available

3.3.2 PCB Mass Removed

The mass (weight) of PCBs removed from the Lower Fox River during 2004 RA work in OU1 was determined by estimating the PCB mass in each geotextile tube and totaling those estimates to determine the PCB mass. This calculation required averaging the PCB concentration from multiple core samples and estimating the dry sediment mass in each tube. Dry sediment mass was calculated from the volume, average moisture content of the sediment in each tube, and assumed values for specific gravity. Volume estimates were based on direct measurements of length, average depths, and an assumed tube width. Specific gravity was estimated according to sediment type (2.4 for sediment, 2.5 for clay). Full saturation was also assumed.

The total mass of PCBs removed from the Fox River during the 2004 RA activities in OU1, using the methodology described above, was 39.6 pounds. Details for each geotextile tube and summary calculations are presented in Appendix F.

3.3.3 Water Treated

During hydraulic dredging, the sediment is carried by water as a slurry. The slurry enters the geotubes and the water weeps through the geotube and is collected in the geotextile tube dewatering pad. The collected water is pumped to the water treatment plant for treatment before discharge back into LLBdM. Total flow through the system is measured in three locations; the dredge slurry discharge, treatment plant influent, and treatment plant discharge. Table 3-5 shows the summary of flows from each sub-area.

TABLE 3-5
Total Flow per Sub-area
Lower Fox River OU1 2004 Remedial Action

Day	Dredge Flow (MG)	WTP Influent Flow (MG)	WTP Effluent Flow (MG)
Sub-area A Region IV	10.06	10.25	8.38
Sub-area A Region VIII(R)	5.00	4.62	3.51
Sub-area POG2	9.38	9.41	7.19
Sub-area A Region VIII(R) re-dredge	N/A	0.69	0.5

MG = million gallons
N/A = not available.

The dredge flow measures both the volume of sediment and water entering the dewatering (geotubes) and treatment systems. The WTP influent measures the flow entering the plant. Water treatment plant influent includes water that weeps from the geotextile tubes, precipitation captured in the dewatering pad, and recycle flows from both the Krofta Sandfloat unit and the activated carbon units' backwash. The WTP effluent flow measures the plant discharge to LLBdM, including precipitation on the dewatering pad. The difference between the dredge flow and effluent flow reflects what remained in the tube and precipitation. The treatment plant flow data is only through December 2, 2004. Any additional drainage and precipitation beyond that date are not included.

During the second dredge of Sub-area A Region VIII(R), the dredge flow meter was not operational. The only flow data collected were the water treatment plant influent and discharge flows.

3.3.4 Sediment Dewatered

There were three methods of measuring the amount of sediment dredged and dewatered. Each measurement had its own separate accuracy. The methods were as follows:

- In situ sub-area volume
- Volume in the geotextile tubes
- Tons of dewatered sediment hauled

The in situ volume was determined by bathymetric survey.

The volume within the geotextile tubes on the dewatering pad was measured using a tape measure and a surveyor's level. As the number of geotubes were added to the dewatering pad and the tubes were stacked up to four levels (in some cases), the accuracy of the volume measured in the tubes diminished.

The final measurement of the dewatered sediment is the weight of the material during hauling and disposal. Each truckload is weighed at the landfill. A total of 23,429 tons was disposed at the landfill. However, this total weight includes gravel that was removed from the top of the dewatering pad during dewatered sediment removal and pad cleanup operations. The landfill estimated that gravel was approximately 4,500 tons of total hauled

to the landfill. The actual tonnage of gravel that was used to bring the gravel surface up to grade prior to the 2005 RA was 1,719 tons. Using this latter figure, the total dewatered sediment mass hauled to the landfill was 21,710 tons.

Table 3-6 summarizes the volume of the geotextile tubes through November 17. It can be observed that during operation some individual tubes increased in volume while others decreased. This reflects interim measurements during the operation of the tubes—some tubes were being filled while others were dewatering.

The geotextile tube total volume increased to a total of 22,537 yd^3 on November 8, which was the last day of dredging before sand placement. The following week, on November 17, the volume was 18,763 yd^3. The volume reduction of 3,774 yd^3 reflects the drainage over 9 days. The volume of 18,763 yd^3 compares to the surveyed in situ volume of 17,970 yd^3. Dewatering continued after November 17, but weather and reduction in staffing resulted in no additional volume measurements.

TABLE 3-6
Geotextile Tube Volumes
Lower Fox River OU1 2004 Remedial Action

		Date				
		10/15/04	**10/22/04**	**11/01/04**	**11/08/04**	**11/17/04**
Geotube Number	**Circumference (ft) x Length (ft)**	**Volume (yd^3)**				
1	60 x 60	221	231	229	229	218
2	60 x 80	364	370	264	364	335
3	60 x 145	890	541	527	527	481
4	60 x 145			809	809	790
5	60 x 145	807	834	797	797	793
6	60 x 145	851	863	786	786	763
7	60 x 145	751	815	724	724	625
8	60 x 80	380	382	377	377	358
9	60 x 145	619	757	793	793	607
10	60 x 145	587	560	549	549	472
11	60 x 145	877	847	681	681	559
12	60 x 145	836	834	834	834	635
13	60 x 145	801	721	685	685	557
14	60 x 145	693	716	602	602	602
15	60 x 60		361	210	210	154
16	60 x 106		408	424	424	325
17	60 x 60		949	310	310	114
18	60 x 176			484	484	724
19	60 x 145			752	752	482
20	60 x 40			166	290	241
B1	60 x 130	539	601	591	591	375
B2	60 x 130	404	696	374	374	536
B3	60 x 130	404	255	328	328	380
B4	60 x 130	472	525	348	348	442
B5	60 x 130		216	453	453	401
B6	60 x 130		368	475	701	299
B7	60 x 130			615	674	455
					262	

TABLE 3-6
Geotextile Tube Volumes
Lower Fox River OU1 2004 Remedial Action

		Date				
		10/15/04	**10/22/04**	**11/01/04**	**11/08/04**	**11/17/04**
Geotube Number	**Circumference (ft) x Length (ft)**	**Volume (yd^3)**				
B9	60 x 130				539	436
B10	60 x 130				539	626
B11	60 x 145				797	529
C1	60 x 116				541	278
C2	60 x 116				541	526
C3	60 x 116				722	481
C4	60 x 116				722	352
D1	60 x 175	890	734	663	663	459
D2	60 x 116	674	603	564	564	559
D3	60 x 200	832	1052	941	941	877
E1	60 x 106				660	495
tubelet 1AA	60 x 30				100	96
tubelet 1BB	60 x 30				100	124
tubelet 2A	60 x 30				100	102
tubelet 1A	60 x 30				25	50
tubelet 1B	60 x 30				25	50
	Totals	**12,892**	**15,239**	**16,355**	**22,537**	**18,763**

The complete geotextile tube volume data may be seen in Appendix A, B, and C.

3.4 Dredging Accuracy and Overdredge

The average depth of cut of the sediment to 1.0 ppm PCB in OU1 is 1.0 feet. Thus, a typical 6-inch overcut would increase the actual volume dredged by 50% over the targeted sediment volume. In order to minimize the overall cost of dewatering, hauling, and disposal, the amount of overdredge must be limited. In order to limit the overdredge amount, a sophisticated positioning system was employed. The system consisted of two Real Time Kinetic (RTK) Global Positioning System (GPS) receivers with an onboard computer to record all positional data. In addition, sensors were used to feed the computer real time information about the exact location of the cutterhead.

For the 2004 RA, a sediment remediation prism of PCBs greater than 1 ppm (interpreted to mean greater than 1.49 ppm) was developed as part of the *Basis of Design Report* (CH2M HILL, 2004). Portions of Sub-areas A and POG2 were targeted for removal in the 2004 RA. The x,y,z,z coordinates for the area to be dredged were loaded directly into the dredge's positioning system. The x,y,z,z coordinates represent north-south, east-west , existing top of sediment, and the elevation of the final cut.

The soft sediment in LLBdM is underlain by uncontaminated native clay. The targeted sediment is often very near or at the top of clay surface, especially in areas where the sediment is not thick. In these cases, if the actual top of clay surface is even slightly higher than the modeled top of clay elevation, the dredge will reach native clay prior to the bottom of the sediment remediation prism. Within portions of Sub-area A Region VIII(R) and Sub-area POG2, the interpolated model's sediment remediation prism was below the sediment's actual interface with the clay. After initial attempts to dredge into the clay, dredging was halted at the top of clay if it was reached above the bottom of the sediment remediation prism. The Agencies have expressed concern about what these instances of the clay surface extending into the targeted sediment remediation prism indicate about the accuracy of the modeled dredge prism. Considering the limited extent of the 2004 RA dredging, this concern will be addressed in the 2005 RA summary report.

In addition to the RTK GPS positioning system on the dredge, a bathymetric survey boat was used to complete daily post-dredge surveys to compare to the dredge positioning system record. The survey boat consisted of a dual frequency sonar system combined with a RTK GPS system similar to the one on the dredge.

3.4.1 Dredge Positioning System Data

The dredge positioning system recorded the location of the cutterhead throughout the project. The positioning system also records the following dredging parameters:

- Total 24-Hour material weight (tons)
- Average hourly production (tons/hr)
- Average line velocity (ft/sec)
- Average material density (specific gravity)
- Average hourly percent solids by volume
- Average hourly percent solids by weight
- Total area covered by cutterhead (ft^2)
- Average hourly area covered (ft^2/hr)
- Average overcut (ft)
- Cutterhead cut volume (yd^3)

The least accurate measurement is the cutterhead cut volume and overcut. The dredge positioning system records the location of the cutterhead and mathematically calculates the volume and overcut. In actuality, more light sediment may have been drawn into the cutterhead than was indicated. In deep cuts, the dredge positioning system does not take into account sloughing into the cut from the sides after the cutterhead is removed.

The slurry percent solids varied with the weight of the material. Sub-area A Region IV contained a large amount of sand and gravel and had an average slurry of 10.8 percent

solids by weight. Sub-area A Region VIII(R) and Sub-area POG2 were light, organic sediment and had an average slurry of 8.1 percent solids by weight.

Overdredge from the Dredge Positioning system, the continuing post-dredge survey and the final post-dredge survey are summarized in Table 3-7. The differences of the overdredge data of Region VIII(R) between the positioning system and the daily survey is that the sediment was light and the cutterhead tended to withdraw more fluffy material than in Region IV.

TABLE 3-7
Overdredge Data
Lower Fox River OU1 2004 Remedial Action

Area	Average Overdredge (ft)		
	Positioning System	Daily Survey	Final QA Survey
Sub-area A,Region IV	0.52	0.52	0.60
Sub-area A,Region VIII(R)	0.18	0.40	0.58
Sub-area POG2	N/A	N/A	N/A

QA = quality assurance

N/A = not available.

There was no overdredge in Sub-area POG2 because the cutterhead met hard clay and rock well above the target elevation.

3.4.2 Continuing Post-dredge Survey

During dredging, continuing post-dredge surveys (or QC surveys) were performed by the dredging subcontractor. When possible, the survey was done daily, surveying the area that was dredged the day before. This was useful to continue to fine tune and adjust the positioning system and the dredge operator's technique to further limit overdredge. Table 3-8 compares the positioning system data versus daily survey data.

TABLE 3-8
Positioning Data versus Daily Survey Data
Lower Fox River OU1 2004 Remedial Action

Area	Positioning System [a] Sediment Removed (yd^3)	Daily Survey [b] Sediment Removed (yd^3)	QA Survey [c] Sediment (yd^3)	Positioning System Area Dredged (ft^2)	Daily Survey Area Dredged (ft^2)	QA Survey Area Dredged (ft^2)
Sub-area A, Region IV	3,758	3,991	4,280	95,994	93,475	91,540
Sub-area A, Region VIII(R)	2,466	2,930	3,700	59,111	56,412	52,785
Sub-area POG2	11,440	7,662	7,370	94,566	86,801	126,700[d]

Notes:

[a] **Positioning system survey -** Recorded movements of the dredge cutterhead.

[b] **Daily Survey -** QC bathymetric survey.

[c] **QA Survey** - QA bathymetric survey.

[d] Total area surveyed -- instead of area dredged.

The positioning system data (recorded movements of the dredge cutterhead) compared closely with the survey data in the shallow cuts of Sub-area A. The data did not compare well in POG2 where regions dredged were deep and sloughing into the cut was possible. The positioning system data is never used as a pay survey due to material sloughing, residual suspension, and atypical point recordings. However, the data is a useful tool for the dredging contractor to determine an estimate of accuracy between QC surveys.

The "true volume" of material removed from a site will be determined by the QA bathymetric surveys. As such, the QA bathymetric surveys will be used for measuring record dredge volumes in 2005 and beyond, including those volumes needed for payment in unit cost contracts.

3.4.3 Final Post-dredge Survey

Following the completion of dredging an area, Brennan would conduct a post-dredge bathymetric survey. As a QA measure, a Foth & Van Dyke representative was on board the bathymetric survey vessel during the post-dredge survey.

Foth & Van Dyke observed the survey procedures, conducted poling, and developed the post-dredge QA results. The poling depths were compared to adjacent bathymetric sounding readings observed by Brennan at the time of the poling, with the boat held stationary. The average variations between poling and sonar soundings were recorded. The poling data was not used in the final calculations of sediment removed because of its variability. Appendix E contains a detailed explanation of the post-dredge survey QA procedures along with tables and drawings showing the results.

3.4.4 Confirmatory Sampling (achievement of 1 ppm RAL)

Following dredging, confirmation sampling of residual sediment PCBs was performed according to the 2004 RA Work Plan's Sediment Removal Verification Plan.

Once bathymetric survey results verified that target dredge elevations set at the modeled 1.49 ppm surface were achieved, surficial (top 10-centimeter) sediment sampling was performed to determine the residual PCB concentration. Residual PCB samples were collected in a 230-foot grid based on the pre-design sampling locations. The residual PCB sampling locations were located at the center of each grid unit. If the residual PCB sample station had a PCB result greater than 1 ppm (equivalent to greater than 1.49 ppm), then a composite sample was collected from the grid consisting of four additional samples. The locations of the individual composite samples were randomly determined prior to the sampling event. All sediment samples were collected using hand-coring techniques with 2-inch-diameter Lexan tubes. The surficial sediment depth interval was collected and analyzed for PCB Aroclors and percent solids using the "Fox River Method" (Modified procedure 8082).

The confirmatory sampling indicated that in Sub-area A Region IV, the average PCB residual concentration after dredging was 0.77 ppm compared to the 2004 PCB objective of 1.49 ppm. Confirmation sampling indicated that in Sub-area A Region VIII(R), the PCB residual concentration after dredging was 1.36 ppm compared to the 2004 objective of 1.49 ppm. Confirmatory sampling was not performed in Sub-area POG2 because the target elevation was never reached. Clay and rock were encountered well above the target elevation and a final sweep of the area was never completed because of the lateness in the season.

The results of the confirmation sampling are shown on the drawings contained in Appendix F and contained in Table 3-9. The 2004 confirmatory sampling results, especially in Sub-area A Region VIII(R), show a wide variability and several PCB values that are higher than the 1.49 ppm target (e.g., one primary sample exceeded 5 ppm and two composite samples exceeded the 1.49 ppm target). Considering these varying results and the relatively small areas dredged and sampled, we believe that the confirmatory sampling results for the 2004 RA are inconclusive. The 2005 RA will provide a more robust set of data upon which to base conclusions regarding what residual surficial PCB concentrations can be expected following hydraulic dredging.

TABLE 3-9
Post Dredge Sediment Sampling Results
Lower Fox River OU1 2004 Remedial Action

Sample Date	Sample ID	Sample Location	Sample Type	Percent Solids (%)	Percent Solids Air Dried (%)	Total PCBs (ug/Kg)
Sub-area A Region IV						
10/11/04	I-RA-04-OOOA-PS-1P	A19/26	Primary	61	100	1200
10/11/04	I-RA-04-OOOA-PS-6P	A20	Primary	62	100	1700
10/11/04	I-RA-04-OOOA-PS-7S-10S	A20	Secondary Composite	69	99.7	550
10/11/04	I-RA-04-OOOA-PS-11P	A21	Primary	72	100	290
10/11/04	I-RA-04-OOOA-PS-21P	A27	Primary	53	100	460
10/12/04	I-RA-04-OOOA-PS-16P	A28	Primary	69	99.8	440
			Average PCB Concentration: 0.77 ppm			
Sub-area A Region VIIIR						
10/25/04	I-RA-04-OOOA-PS-26P	A78	Primary	64	98.6	<27
10/25/04	I-RA-04-OOOA-PS-31P	A79	Primary	42	98.3	950
10/25/04	I-RA-04-OOOA-PS-36P	A92	Primary	22	96.6	1900
10/25/04	I-RA-04-OOOA-PS-37S-40S	A92	Secondary Composite	28	98	2000
10/25/04	I-RA-04-OOOA-PS-41P	A93	Primary	57	98.6	230
10/25/04	I-RA-04-OOOA-PS-46P	A94	Primary	23	97.3	5000
10/25/04	I-RA-04-OOOA-PS-47S-50S	A94	Secondary Composite	42	98.8	1700
10/25/04	I-RA-04-OOOA-PS-ATE1-51	A78 (ATE 1)	Above Target Elevation	48	98.3	69(Q)
10/25/2004[a]	I-RA-04-OOOA-PS-ATE2-52	A78 (ATE 2)	Above Target Elevation	27	97.7	4000
10/25/04	I-RA-04-OOOA-PS-ATE3-53	A78 (ATE 3)	Above Target Elevation	45	98.3	780
10/25/2004[a]	I-RA-04-OOOA-PS-ATE4-54	A79 (ATE 1)	Above Target Elevation	22	97.5	5400
10/25/2004[a]	I-RA-04-OOOA-PS-ATE1-55	A92 (ATE 1)	Above Target Elevation	22	97.4	8500
10/25/04	I-RA-04-OOOA-PS-ATE1-56	A93 (ATE 1)	Above Target Elevation	57	98.5	94

TABLE 3-9
Post Dredge Sediment Sampling Results
Lower Fox River OU1 2004 Remedial Action

Sample Date	Sample ID	Sample Location	Sample Type	Percent Solids (%)	Percent Solids Air Dried (%)	Total PCBs (ug/Kg)
12/09/2004[b]	I-RA-04-OOOA-PS-58	A78 (ATE 2)	Above Target Elevation	54	99	460
12/09/2004[b]	I-RA-04-OOOA-PS-60	A79 (ATE 1)	Above Target Elevation	30	99	2700
12/09/2004[b]	I-RA-04-OOOA-PS-61	A92 (ATE 1)	Above Target Elevation	33	99	1800
			Average PCB Concentration: 1.36 ppm			

ATE = Above Target Elevation
Q = Result between LOD and LOQ.
[a] Sediment locations re-sampled on 12/09/04 after re-dredging. These locations were not used in the PCB average residual concentration for 2004.
[b] Sediment sampled after "above target elevation" areas were re-dredged.

3.4.4.1 Station Location Positioning

Station locations must be precisely positioned to meet the sediment removal verification sampling goals. Both absolute accuracy (the ability to define position) and repeatable accuracy (the ability to return to a sampling station) are essential.

A RTK Digital GPS, capable of locating stations with an absolute and repeatable horizontal accuracy of ±1 meter and a vertical accuracy of ±5 centimeters was used to position all sampling locations. The RTK Digital GPS was referenced to onshore, WDNR-established survey monuments to allow accuracy in the station location determination. The coordinate system used during the sampling activities was the NAVD 88 Datum (vertical) and Geodetic (WGS/NAD83) Datum (horizontal).

To initially locate each station in the field, the sampling team first estimated the position of the station relative to fixed shoreline objects, the distance from shore, water depth, and vegetation characteristics. After a station has been located relative to such features, the RTK Digital GPS was used to determine the station's actual location. The coordinates were then recorded on the field form for later uploading into the project database.

The following information was collected at each sampling location:

- Location ID
- Northing (y): Geodetic coordinates (degrees, minutes, and decimal seconds with 2 decimal places minimum as submeter accuracy)
- Easting (x*):* Geodetic coordinates (degrees, minutes and decimal seconds with 2 decimal places minimum for submeter accuracy)
- Surface Water Elevation (z): NAVD (88) (recorded to the nearest 0.01 foot)

3.4.4.2 Sediment Sampling Procedure

Prior to sediment coring, sediment probing was conducted to estimate the amount of soft sediment present at the sampling location. The soft sediment thickness was measured as an ancillary parameter, using a sediment probe, and recorded on the field datasheet. Sediment core penetration and recovery were also recorded during the sampling activities. Surficial sediment elevation was determined and recorded to the nearest 0.01 foot.

Sediment cores were collected using hand-coring techniques with 2-inch Lexan tubes. For all cores, the light, low-percent solids (fluff) layer above the surficial sediment, as visually determined, was not considered in either the initial volume determination or the post-dredging elevation confirmation. This layer was discarded prior to core processing. Following the removal of the fluff layer, the top 10 centimeters of the core was sub-sampled for analysis of PCB Aroclors and percent solids. The surficial sediment sample was removed from the core section, homogenized, and placed in glass sampling containers for shipment to the laboratory.

Sediments were analyzed for PCBs using the Fox River PCB Method, which includes an air-drying step so that samples contain between 5– and 10-percent moisture prior to extraction. The sediment samples were then extracted by USEPA SW 846 Method 3541C, automated Soxhlet (Soxtherm), followed by gas chromatography analysis using an electron capture detector (GC/ECD). The initial calibration includes an analysis of a five-point calibration curve of Aroclors 1242 and 1254, both prominent PCBs found in the Lower Fox River.

3.5 Turbidity Monitoring

During dredging and sand placement operations, surface water turbidity was monitored. Turbidity was reported as nephelometric turbidity units (NTU) continuously measured in the river at three locations, one upstream and two downstream of in-river RA activities. The upstream sampling location was between 100 and 500 feet from the RA activities. The first downstream location was 500 feet or less from RA activities and the second location was 1,000 feet or more downstream. The sampling locations were adjusted as needed, to reflect the changing locations of the RA activities. Turbidity was measured by in-stream, real-time turbidity meters generating hourly results. Hand-held field measurements (650 multi-parameter display system) were made once daily in the same general areas as the in-river meters to confirm real-time monitoring results. Data was digitally recorded and stored with time and date for downloading via radio modem (6250 two-way base station, ECO-watch DCP windows telemetering application software) to an onsite PC.

Total Suspended Solids (TSS) grab samples of surface water were obtained once daily at the same location and time as the turbidity field measurements. This sampling and testing was to develop a relationship between river water turbidity (reported as NTU) and TSS shown in Appendix D.

The results of the turbidity monitoring in 2004 demonstrated that there was no significant increase in turbidity or TSS during the dredging and sand placement.

SECTION 4

Geotextile Tubes

4.1 Description & Process Flow

The sediment dewatering system consisted of a manifold system, the geotexile tubes, dewatering pad, and carriage water sump. The process flow diagram for the sediment dewatering system is shown on Figure 4-1. Conditioning chemicals were added to the sediment slurry prior to discharge into the geotextile tubes based on the dredge slurry flow rate, the slurry solids content, and visual floc characteristics. Carriage water from the geotextile tubes weeped through the filter fabric and percolated through the dewatering pad gravel and flowed to the carriage water sump before being pumped to the water treatment system.

Originally, the treatment plant recycle flow from the Sandfloat and granular activated carbon (GAC) backwash was routed back to the geotextile tubes. During the 2004 RA, the GAC backwash was re-piped to discharge directly to the dewatering pad to allow for a more vigorous and thorough backwash.

All but two of the geotextile tubes were 60 feet in circumference and varied in length between 29 feet to 200 feet. The other two tubes were 30 feet in circumference. The majority of the tubes were 145 feet in length. These geotextile tubes were manufactured by Miratech. The material was Ten Cate Nicolon Geolon® GT500. In addition to the Miratech tubes, one Spiral geotextile tube manufactured by Bradley was tested. The Bradley Spiral tube used was 60 feet in circumference and 45 feet in length.

4.2 Containment Cell Description/Construction

The 2004 containment cell contained the geotextile tube dewatering pad. The containment cell was about 350 feet by 200 feet. The containment cell layout may be seen on the 2004 Site Plan (Figure 4-2). The cell was constructed with berms on the perimeter. The bottom of the cell was sloped toward a center drainage ditch. The ditch in turn sloped to the large circular concrete carriage water sump. The water treatment plant influent pumps withdrew the carriage water from that sump. The cell bottom and berm sides were lined with two liners to prevent water migration. The two-liner system consisted of a geosythetic clay liner beneath a PVC membrane liner. The north and east berms were constructed of stone and are intended to be removed when the containment cell is expanded in 2005. The gravel was not placed directly against the north and east berm to enable easy access to the berm. This created a ditch in the gravel along those berms.

A geotextile material was laid over the membrane liner to protect it from the gravel, which was placed on the liner system and graded level. The gravel served as the drainage surface for the geotextile tubes. In order for the geotextile tubes to remain stable they must lay on a surface with a slope of less than 1 percent. The gravel pad also enhances drainage from the bottom of the tubes and provides storage volume for carriage water and precipitation.

During the initial operation of the dewatering pad, geotextile filter fabric was placed beneath the geotextile tubes. It was observed that this filter fabric inhibited dewatering. Instead of water flowing through the fabric, water traveled laterally to the edge of the fabric and then drained into the gravel beneath. The fabric was not placed under the additional tubes.

4.3 Chemical Addition

During the 2004 RA, three chemicals were fed to the slurry for the geotextile tube dewatering, a cationic polymer, cationic coagulant, and ferric sulfate. The amount of chemicals to be added was determined by hanging bag tests just prior to startup of the system. In addition to the hanging bag tests, during startup, small geotubes called "tubelets", which were 60 feet in circumference and 29 feet in length, were used to test the chemistry before full sized tubes were filled.

Target dosages were established in the amount of chemicals per unit weight of sediment solids. The polymer and ferric sulfate were fed with adjustable rate pumps. Flow rate and density of the slurry paced the chemical feed rate. A flow meter and online density meter fed signals to a programmable logic controller, which in turn adjusted the feed rates. The total amount of chemicals used for the geotextile tube dewatering system was 7,000 pounds of coagulant polymer, 12,000 pounds of polymer, and 63,000 pounds of ferric sulfate.

The chemicals were added on a weight of chemical per weight of sediment. The target dosages, and the corresponding project averages, were as follows:

- 1.8-3.0 lbs neat ferric sulfate/ton dry solids (overall project average 2.4 lbs neat ferric sulfate/ton dry solids)

4.4 1.2-3.0 lbs of neat polymer/ton dry solids (overall project average 2.6 lbs neat polymer/ton dry solids)Geotextile Tube Operation

Figure 4-3 shows the final tube layout. Geotextile tube operation began on August 31, 2004 with the construction (hydraulic dredging of soft sediment and clay) of the access channel and the outfall pipe trench. This construction dredging took place in Sub-areas D and E. The tubelets were placed near the carriage water sump and used to test the sediment slurry conditioning chemistry. This material was placed in tubes 1, 2, 3, 4, 5, and 11. The material was primarily clay.

Dredging of Sub-area A began on September 15. This sediment was placed in tubes 3 to 7, 11 to 14, B1 to B4, and D1 to D3. These tubes were lined up running in a north-south direction, except D3 which ran east and west. The tubes given a "B" designation were the second layer in a stacked configuration. Tubes given the "C" and "E" designations represented the third, and fourth layers, respectively. Tubes along the north and east berms were laid in a depression in the gravel and were given a "D" designation.

During the feeding of the tubes, the height of the tube was monitored and allowed to rise to 6 feet. At this point, the tube was then taken offline and allowed to drain and consolidate

before it was refilled again with the dredge slurry. The second and subsequent fillings were considered topping off the tubes. These frequent fill cycles were required to maximize the effective volume of each tube. The topping off operation involved filling full or nearly filled tubes with a relatively small portion of the dredge slurry while the bulk of the dredge slurry was directed to tubes that were being initially filled. This operation was accomplished through the valving of the dredge slurry manifold header system. On October 4, a small amount of flow was being sent to tube 4 for topping off while most of the flow was being sent to D1. The fill port of D1 plugged with sand and gravel directing most of the flow into the small volume available in tube 4 forcing it to split. The pad was cleaned on October 5 and production resumed on October 6.

Dredging in POG2 began on October 18 and continued until November 8. The POG2 sediment was placed in tubes 15 to 19, B1 to B11, C1 to C3, D1 to D3, and E1. When putting sediment in stacked tubes, some of the carriage water permeated into the tubes beneath the active tube. This effected the aging time of the lower tubes.

On December 1, the dredge was relocated to Sub-area A Region VIII(R). Part of the dredge piping had been left on the bottom of LLBdM when the dredge relocated to POG2. This was done in case a decision was made to return to Sub-area A. The dredge had to be relocated back to Sub-area A to pump water into the pipe and refloat the pipe. A decision was made to go back and dredge an additional 20 yards of sediment remaining in Subsection VIII(R). It was planned to use a small 60 feet x 29 feet tubelet for this small amount of sediment. Ultimately, because of redeposition of sediment between the first and second dredging, 220 yards were dredged. This additional sediment required a new tube (C5) be deployed and used along with tube B8 being reactivated.

4.5 Geotextile Tube Sampling

Two different techniques were used to sample the geotextile tube contents. These two sampling techniques are discussed in the following sections. Given the size of the tubes and the variability of the sediment both vertically and horizontally, any sampling will only result in approximation of the tube contents. Table 4-1 contains a comparison of the results of both techniques. In general, the pipe insertion technique approximates the results of the auger technique in the low moisture contents. In the higher moisture contents, the augur technique generally yields a lower value.

4.5.1 Pipe Insertion Sampling Technique

The dewatered sediment was sampled from the geotextile tubes in order to determine percent solids (moisture content). The tube operation staff used pipe insertion as the primary means of contents sampling. The technique amounts to inserting a 2-inch pipe into the sediment. When the pipe reached refusal, the top of the pipe was sealed and the pipe and contents were withdrawn. While a tube was active, the sample was drawn from the fill port. Later, when the tube was retired, slits were cut in the tube for pipe insertion.

The advantage of this technique is that it is relatively simple and only required two people. There are however, disadvantages that may result in an unrepresentative sample. Sampling in an active tube is done through the inlet port creating a core hole when the sample is

withdrawn. Water within the sediment flows to the hole so any subsequent samples taken in the vicinity may be more wet than the rest of the tube.

A major disadvantage of the pipe insertion technique is that while inserting the pipe, the bottom of the pipe may become plugged with the sediment partially into the tube. It was not uncommon to withdraw 3 feet of sample out of 6 feet of sediment. The bottom portion of the tube may not be sampled.

4.5.2 Large Auger Technique

The dewatered sediment was sampled from the geotextile tubes in order to determine percent solids (moisture content) and PCB concentration. Whenever possible, 2 to 10 grab samples were obtained through the top of the geotextile tube. Each grab sample was homogenized. Equal volumes of each grab sample from each geotextile tube were combined and homogenized. A single sediment sample was obtained from this homogenized sample.

The thickness of each geotextile tube was poled or measured and then recorded prior to sampling. A hollow stem clay auger was used to obtain samples. The large auger technique utilized a 3-inch-inside-diameter, cylinder-type hand-auger that removes a one-foot-long cylindrically shaped sediment sample each time it is delivered down the sample hole. Most of the core samples were advanced the entire thickness of the geotextile tube. All samples were advanced at least 75% of the tube thickness. The limiting factor for sampling was the handle length of the auger. Handle extensions were obtained which allowed 100% of the tube thickness to be sampled all of the time once the handle extension adjustment was made. Refusal was not encountered in any geotextile sampled. Sampling tubes were not used. Sediment samples were extracted directly from the hand-auger. The cylinder auger was wiped clean in the field between each sample location and was decontaminated between each geotextile tube sampled. In approximately 20 percent of the geotextile tubes, sampling occurred through an overlying tube. The bore hole was advanced through the overlying geotextile tube, and in some cases where caving was observed, a 4-inch-diameter PVC pipe was inserted.

Each grab sample was placed into a separate durable plastic bag, homogenized within the bag with equal volumes of samples from each bag being placed into a stainless steel bowl for homogenization to produce one composite sample per geotube. The laboratory sample was obtained from this homogenized sample and placed into a cooler for delivery to the laboratory. Results of the percent solids testing and PCB analysis are shown in Table 4-1.

TABLE 4-1
Percent Solids
Lower Fox River OU1 2004 Remedial Action

Geotube Number	Circumference (ft) x Length (ft)	Contains Deposit(s)	Date taken out of Service	Pipe Insertion Percent Solids (sample date)	Auger Data Percent Solids (sample date)	PCB Concentration (ug/kg)
1	60 x 60	D, E	09/12/04	68.7 (11/15/04)	51.4 (11/23/04)	170
2	60 x 80	D, E, A-4	09/16/04	60.5 (11/29/04)	50.4 (11/23/04)	200
3	60 x 145	D, E, A-4, A-8	10/11/04	55.6 (11/30,12/2)	43.3 (11/23/04)	800

TABLE 4-1
Percent Solids
Lower Fox River OU1 2004 Remedial Action

Geotube Number	Circumference (ft) x Length (ft)	Contains Deposit(s)	Date taken out of Service	Pipe Insertion Percent Solids (sample date)	Auger Data Percent Solids (sample date)	PCB Concentration (ug/kg)
4	60 x 145	D, E, A-4, A-8	10/08/04	59.1 (10/1/04)	61.1 (10/11/04)	170
5	60 x 145	D, E, A-4, A-8	10/11/04	61.9 (11/30/04)	56.0 (12/03/04)	1000
6	60 x 145	A-4, A-8	10/13/04	78.0 (11/15/04)	64.0 (12/03/04)	590
7	60 x 145	A-4, A-8	10/11/04	51.3 (12/1/04)	35.0 (12/03/04)	3200
8	60 x 80	D, E	09/12/04	57.3 (11/29/04)	47.0 (11/23/04)	170
9	60 x 145	D, E	09/12/04	56.3 (11/29/04)	51.0 (12/07/04)	120
10	60 x 145	D, E	09/12/04	48.6 (12/2/04)	49.7 (12/28/04)	160
11	60 x 145	D, E, A-4, A-8	10/11/04	? (12/2/04)	28.8 (12/03/04)	5100
12	60 x 145	A-4, A-8	10/06/04	78.7 (11/16/04)	82.0 (12/28/04)	110
13	60 x 145	A-4, A-8	10/06/04	83.4 (11/16/04)	69.9 (12/28/04)	440
14	60 x 145	A-4, A-8	10/08/04	68.2 (11/16/04)	61.0 (12/06/04)	970
15	60 x 60	POG2	10/21/04	48.8 (12/2/04)	43.6 (12/28/04)	1700
16	60 x 106	POG2	10/22/04	31.7 (12/1/04)	46.0 (12/03/04)	1100
17	60 x 60	POG2	10/22/04	26.2 (12/2/04)	28.3 (12/28/04)	5400
18	60 x 176	POG2	10/28/04	30.8 (12/2/04)	28.0 (12/03/04)	7000
19	60 x 145	POG2	10/29/04	27.7 (12/2/04)	29.0 (12/28/04)	6300
20	60 x 40	POG2	11/05/04	31.8 (11/29/04)	32.5 (11/23/04)	4200
B1	60 x 130	A-8, POG2	10/22/04	36.4 (12/2/04)	25.0 (12/06/04)	5800
B2	60 x 130	A-8, POG2	10/22/04	42.0 (12/2/04)	34.0 (12/06/04)	2400
B3	60 x 130	A-8, POG2	10/22/04	34.1 (12/2/04)	31.4 (12/28/04)	3800
B4	60 x 130	A-8, POG2	10/22/04	32.6 (12/2/04)	27.0 (12/07/04)	4600
B5	60 x 130	POG2	11/08/04	29.7 (12/1/04)	34.0 (12/03/04)	4300
B6	60 x 130	POG2	11/08/04	31.2 (11/30/04)	30.0 (12/03/04)	5000
B7	60 x 130	POG2	10/26/04	28.9 (12/2/04)	27.0 (12/06/04)	16000
B8					26.0 (12/06/04)	5200
B9	60 x 130	POG2	11/04/04	32.7 (12/2/04)	30.0 (12/06/04)	4200
B10	60 x 130	POG2	11/04/04	35.9 (12/2/04)	38.0 (12/28/04)	3300
B11	60 x 145	POG2	11/08/04	30.6 (12/2/04)	28.0 (12/03/04)	5100

TABLE 4-1
Percent Solids
Lower Fox River OU1 2004 Remedial Action

Geotube Number	Circumference (ft) x Length (ft)	Contains Deposit(s)	Date taken out of Service	Pipe Insertion Percent Solids (sample date)	Auger Data Percent Solids (sample date)	PCB Concentration (ug/kg)
C1	60 x 116	POG2	10/29/04	29.6 (12/2/04)	26.0 (12/07/04)	6200
C2	60 x 116	POG2	10/29/04	28.1 (12/2/04)	28.0 (12/06/04)	5900
C3	60 x 116	POG2	11/08/04	29.2 (12/2/04)	30.0 (12/06/04)	5400
C4	60 x 116	POG2	11/08/04	31.2 (12/2/04)	26.0 (12/06/04)	4800
C5	60 x 116	A-8	12/02/04		26.0 (12/06/04)	1800
D1	60 x 175	A-8, POG2	10/11/04	45.0 (12/2/04)	47.0 (12/06/04)	1600
D2	60 x 116	A-8, POG2	10/22/04	43.7 (12/2/04)	38.0 (12/03/04)	2500
D3	60 x 200	A-8, POG2	10/22/04	44.6 (12/2/04)	35.0 (12/03/04)	2800
E1	60 x 106	POG2	11/08/04	31.1 (12/2/04)	30.0 (12/07/04)	5000
Tubelet 1AA	60 x 30	POG2	---	64.5 (11/15/04)	46.5 (11/23/04)	2300
Tubelet 1BB	60 x 30	POG2	---	36.4 (11/29/04)	33.2 (11/23/04)	5100
Tubelet 2A	60 x 30	POG2	---	27.3 (11/29/04)	28.3 (11/23/04)	8300
Tubelet 1A	60 x 30	A	---	73.6 (10/13/04)	Not sampled	
Tubelet 1B	60 x 30	A	---	59.1 (10/13/04)	Not sampled	
Tubelet 3A	60 x 30	A	---	---	26.0 (12/07/04)	910

4.6 Air Monitoring

Air samples were collected and analyzed for PCBs when the geotextile tubes were being filled with sediment or when dewatered sediment was being removed. Samples were collected on a continuous basis, with sample duration of about 72 hours. This sampling program started on August 30, 2004. Samples were collected using four high-volume samplers located strategically around the perimeter of the dewatering area. Three of the samplers were located adjacent to the berm of the sediment dewatering pad immediately to the north, west, and east of the site. The fourth sampler was located at the house adjacent to the former Huber property on North Lake Street just south of the site.

Prior to the commencement of dredging activities, roughly 1 month of baseline sampling was performed at the site. This sampling was performed once per week for a 72-hour period

during each sampling event. The starting date for the baseline sampling was August 4, 2004. Four rounds of baseline samples were collected during that month.

All samples were collected using a Tisch Environmental TE-PUF high-volume sampler loaded with a combination quartz filter and Polyurethane foam (PUF) cartridge, following the USEPA protocol set forth by TO-4A. Air was drawn into the sampler at about 8 feet per second (226 liters per minute). Sampling periods were all at roughly 72 hours to ensure sufficient sample and volume was obtained to permit detection of PCBs at low concentrations. Following collection of the samples, the filters and PUF cartridges were shipped to Pace Analytical Laboratories for analysis following the USEPA TO-4A analytical protocol. A field blank was collected and sent with at least every shipment of 20 samples.

To date, results have been received for all samples that were collected though 42 rounds of sampling. This covers the period from the beginning of August 2004 through mid-January 2005, including the period of baseline sampling. This comprises 163 samples for this period of time. The laboratory has reported that all samples for this period are below the limit of detection for PCBs, which is 0.5 micrograms per sample. Although air volumes vary slightly from sample to sample, this translates generally into a calculated PCB concentration that is less than 0.0004 $\mu g/m^3$ at each sampler for each sampling event.

The data is presented in Appendix D, Environmental Monitoring.

4.7 Dewatering Results

Appendix B contains geotextile tube sampling data collected by both Infrastructure Alternatives and Foth & Van Dyke.

4.7.1 Dewatering Rate

During the geotextile tube operation, tube contents were sampled using the pipe insertion technique. There was variability in the results because of some of the factors discussed above. Table 4-2 shows the results of the sampling by tube and date sampled. The results indicate that Sub-areas A, D, and E seem to dewater within a few weeks. It should be noted that dredge solids from Sub-areas D and E were a combination of soft sediment and underlying native clay and these results may not be representative of the dewaterability of the soft sediment of D and E alone.

The geotextile tubes containing POG2 sediment seem to show a continuing increase in percent solids over time. However, operational factors entered into the project that makes conclusions difficult to determine at this time. During the POG2 dredging, the tubes were required to be stacked. When one tube was finished and consolidated, another tube was placed on top, sending water onto the tube below it. The onset of freezing weather in early December made it difficult to continue to sample through frozen geotextile tubes. The last comprehensive sample using the pipe insertion method was completed on December 9. Sampling did continue using the auger technique through the end of the year. These samples were used to determine the PCB concentration inside of the geotubes. Percent solids of the samples were also determined.

4.7.2 Effects of Chemical Addition

The polymer and ferric sulfate were added to allow the sediment particles to flocculate. The chemical dosages were checked every 30 minutes during operation by visually observing flow in the dredge slurry. If the floc was too small, the feed rate was increased. If the floc was too large or free polymer was visible, the dosage was reduced.

During portions of the 2004 RA, overdosing of polymer caused excessive polymer bleed-through from the geotextile tubes. This was due to two factors—the first was the result of an occasional overdose of polymer. It should be noted that a slight amount of overdosing is necessary to accommodate the variability of the sediment and the dredge slurry solids concentration. However, polymer overdosing must be kept to a minimum in the future. The negative impact of polymer overdosing on water treatment is discussed further in Section 5.6. It has also been speculated that polymer overdosing had a negative impact on the workability of the dewatered sediment at the landfill. Additional data from 2005 RA operations will be needed to answer this question.

In addition to the overdose, there were most likely periods of time when the dredge slurry was primarily sand as opposed to clay and other sediments. When this occurred, the polymer and other conditioning chemicals would not react with the sand because of the sand's relatively neutral charge. When this happened, a portion of the dosed polymer would carry through as unreacted in the weep water.

4.7.3 Sediment Removal and Hauling

Sediment began to be loaded and hauled to the landfill for disposal on December 8. The hauling contractor used a backhoe to load the trucks and a tracked machine with a tooth bucket to break the tubes and push the material over to the backhoe. The first tubes to be removed were the tubelets and tubes 1, 8, and 20. This allowed trucks to drive through the containment cell. The trucks were lined with a plastic liner prior to loading. The trucks are then decontaminated prior to leaving the site.

The hauling subcontractor used an average of four trucks per day to haul the sediment to the Hickory Meadows Landfill in Chilton. They are averaging 450 tons per day.

4.8 Landfill Operation

When trucks containing dewatered sediment arrived at the Onyx Hickory Meadows Landfill, they were weighed. The load was then placed in the landfill where it was commingled with municipal refuse. However, based on their experience handling the 2004 RA dewatered sediment, Onyx concluded that the material was not workable. The cause of the dewatered sediment not being workable was not conclusively identified (e.g., inherently low strength material even at target percent solids concentrations). Additional experience and data gained from landfilling OU1 sediment in 2005 will be needed to properly evaluate the dewatered sediment's workability.

TABLE 4-2
Geotextile Tube Sampling Data—Pipe Insertion Method Sampling Method
Lower Fox River OU1 2004 Remedial Action

Geotube Number	Deposit	24-Sep	29-Sep	30-Sep	01-Oct	04-Oct	10/11	13-Oct	18-Oct	25-Oct	01-Nov	08-Nov	15-Nov	23-Nov	11-Nov to 2-Dec	09-Dec
1	D, E	**61.10%**			**65.30%**		**56.80%**	**50.10%**					**68.70%**			
2	D, E, A-4	**45.20%**			**45.20%**		**48.80%**		**46.20%**		**64.90%**		**54.50%**	**50.0%**	**60.5%**	
3	D, E, A-4, A-8	40.00%			40.00%		46.50%		**46.40%**		**51.10%**		**50.20%**	**46.0%**	**55.6%**	**55.6%**
4	D, E, A-4, A-8	46.60%			59.50%											
5	D, E, A-4, A-8	34.10%			34.10%		41.10%			**47.80%**			**47.50%**	**52.9%**	**61.9%**	
6	A-4, A-8	59.40%			59.40%	71.40%				**60.80%**			**78.00%**			
7	A-4, A-8						32.30%				**56.20%**		**43.80%**	**46.5%**	**51.3%**	**46.1%**
8	D, E	**47.60%**	**47.60%**				**46.20%**	**48.50%**					**49.00%**	**48.4%**	**57.3%**	**56.0%**
9	D, E	**45.80%**		**45.80%**			**46.60%**	**57.70%**					**52.00%**	**47.0%**	**56.3%**	**52.5%**
10	D, E	**61.40%**		**61.40%**			**61.80%**	**52.20%**					**49.00%**	**48.1%**	**48.6%**	**48.7%**
11	D, E, A-4, A-8	48.50%	48.50%				40.70%	**50.70%**					**48.30%**	**48.1%**		**42.7%**
12	A-4, A-8						**72.30%**						**78.70%**		**78.7%**	
13	A-4, A-8	72.30%	72.30%				**74.60%**						**83.40%**		**83.4%**	
14	A-4, A-8					73.80%							**68.20%**		**68.2%**	
15	POG2												**45.50%**	**42.0%**	**48.8%**	**44.9%**
16	POG2										**34%**	**34.70%**	**41.00%**	**39.7%**	**31.7%**	**35.0%**
17	POG2												**27.90%**	**27.5%**	**26.2%**	**27.3%**
18	POG2										**26%**		**28.40%**	**28.9%**		**30.8%**
19	POG2										**26%**		**27.70%**	**27.8%**	**27.7%**	**30.8%**
20	POG2												**30.40%**	**30.1%**	**31.8%**	**33.5%**
B1	A-8, POG2								20.80%		**27%**		**50.40%**	**35.3%**	**36.4%**	**35.1%**
B2	A-8, POG2								30.60%		**33%**	**38.20%**	**36.00%**	**46.7%**	**42.0%**	**42.2%**
B3	A-8, POG2								24.60%				**35.50%**	**30.0%**	**34.1%**	**31.9%**
B4	A-8, POG2								26.40%				**32.70%**	**28.6%**	**32.6%**	**29.4%**
B5	POG2										30%		**26.70%**	**28.4%**	**29.7%**	**38.5%**
B6	POG2										31%	42.20%	**25.80%**	**29.7%**	**31.2%**	**30.7%**
B7	POG2												**27.80%**	**29.4%**	**28.9%**	**27.6%**
B8	A-8												29.70%	32.2%		**29.8%**
B9	POG2												**34.60%**	**32.0%**	**32.7%**	**34.1%**

TABLE 4-2
Geotextile Tube Sampling Data—Pipe Insertion Method Sampling Method
Lower Fox River OU1 2004 Remedial Action

Geotube Number	Deposit	24-Sep	29-Sep	30-Sep	01-Oct	04-Oct	10/11	13-Oct	18-Oct	25-Oct	01-Nov	08-Nov	15-Nov	23-Nov	11-Nov to 2-Dec	09-Dec
B10	POG2											**31.40%**	**30.60%**	**28.9%**	**35.9%**	**32.6%**
B11	POG2											**27.80%**	**20.50%**	**27.5%**	**30.6%**	**30.7%**
C1	POG2												**28.60%**	**29.6%**	**29.6%**	**27.0%**
C2	POG2											**29.50%**	**34.80%**	**34.9%**	**28.1%**	**29.3%**
C3	POG2											30.10%	**30.70%**	**29.1%**	**29.2%**	**32.8%**
C4	POG2						43.10%		32.20%		55.50%	50.50%	**55.40%**	**44.5%**	**31.2%**	**31.8%**
C5	A-8															**26.5%**
D1	A-8, POG2						24.90%		**32.20%**		**34.70%**	**34.70%**	**42.30%**	**37.7%**	**45.0%**	**54.9%**
D2	A-8, POG2						29.80%		30.50%		**35.80%**		**34.00%**	**66.1%**	**43.7%**	**58.9%**
D3	A-8, POG2											**30.80%**	**39.80%**	**35.4%**	**44.5%**	**40.3%**
E1	POG2												**64.50%**		**31.1%**	**33.3%**
Tubelet 1AA	POG2												**29.40%**	**30.7%**	**64.5%**	
Tubelet 1BB	POG2												**29.30%**	**29.5%**	**36.4%**	
Tubelet 2A	POG2							73.6%							**27.3%**	
Tubelet 1A	A							59.1%								
Tubelet 1B	A															

Notes:
Bold cells indicate results after tube was retired.
Highlighted cells indicates tube impacted by December 1 dredging.

SECTION 5

Water Treatment Plant

5.1 Process Description

The sediment dewatering system consisted of the manifold system, geotextile tubes, dewatering pad, and carriage water sump. This system was also described in Section 4. Water from the carriage water sump was pumped to the water treatment plant (WTP), which consists of a chemical conditioning system, a Krofta Sandfloat SAF-BP unit (combined dissolved air flotation [DAF] clarifier and sand media bed filter), GAC vessels, a sludge tank, and a non-potable water tank. The process flow diagram for the WTP is shown on Figure 5-1.

The plant influent is pumped from the dewatering pad into the Sandfloat unit, where suspended solids are removed with dissolved air flotation and sand filtration. Effluent from the Sandfloat was pumped directly through the GAC vessels for final treatment before discharge into the river. A portion of the effluent from the GAC vessels was stored in the non-potable water tank for plant use for dry polymer makeup water, and backwash cycles.

Sludge from the DAF portion of the Sandfloat was sent to the sludge tank before being pumped back into the geotextile tubes. The sludge tank originally received backwash water from both the media filter-bed portion of the Sandfloat and the GAC vessels. Later in the project, the GAC backwash was re-piped to directly discharge to the geotextile tube pad.

Through the 2004 RA, the treatment plant was operated intermittently as needed. The geotextile tube drainage pad gravel was designed to hold 24 hours worth of carriage water without running the plant. In addition, because most of the dredging operation days were 12–18 hours long, there was no need to run the treatment plant continuously.

The treatment plant was designed to remove suspended solids and dissolved organics such as PCBs. The test plan and its results are presented in Appendix C. The data indicates that no PCB concentrations were detected outside the geotextile tubes. No PCBs were detected in the geotextile tube weep samples. Table 5-1 shows the average TSS concentrations throughout the 2004 RA at various locations in the treatment system.

TABLE 5-1
Average Total Suspended Solids
Lower Fox River OU1 2004 Remedial Action

Geotextile Tube Weep	WTP Influent (mg/L)	Krofta Effluent (mg/L)	GAC Effluent (mg/L)
80	35	15	15

mg/L = milligrams per liter

Table 5-1 represents averages of grab samples throughout the life of the project. The TSS coming out of the geotextile tube would vary, during the operation of the tubes. During the

start up of a new tube the TSS in the weep would be as much as 200 mg/L, but would quickly decrease to 40 mg/L or less.

Some of the TSS in the weep remained in the gravel in the drainage pad. The result was that the Sandfloat influent had very low TSS concentrations.

5.2 Sandfloat Operation

The Sandfloat operation suffered slightly from the plant not being run continuously and a low solids concentration coming into the plant. It is best to run a Sandfloat continuously and the intermittent operation limited performance. In addition, the low solids coming into the Sandfloat also reduced performance.

It is anticipated that two dredges will operate 24 hours a day in 2005 and beyond. As a result, the Sandfloat will be run continuously. In 2005 and beyond, the solids loading to the Sandfloat may be higher as a result of ongoing load-out operations and infrequent events such as geotextile tube failures. During load-out operations, solids may fall onto the finer gravel layer on top of the dewatering pad's crushed stone base. A portion of these solids will pass through the gravel layer during precipitation events and/or normal dewatering operations, only a portion will flow into the water treatment plant and increase the solids load to the Sandfloat. The remaining solids will settle out and accumulate above the dewatering pad liner.

During the 2004 RA, the pad and its gravel were new and free from sediment. Very little sediment entered the pad gravel during normal dewatering operations because it was limited to the weep from the geotextile tubes. During the normal course of operation over several years, it is inevitable that sediment solids will enter and a portion will pass through the pad's gravel layer, either during operation or load-out. A portion of these solids will reach the water treatment plant, where the Sandfloat system will remove them and algae that may enter the system during summer operation.

5.3 Granular Activated Carbon Operation

The GAC units operated from the beginning of startup with a high pressure loss going through the units. The plant had been built with provisions for adding backwash piping at a later date. Once the backwash piping was added and redirected from the sludge tank directly to the geotextile tube dewatering pad, vigorous backwashing could occur. These modifications solved the high pressure loss across the GAC units.

5.4 Chemical Addition

During the initial operation, the Sandfloat was removing suspended solids, but TSS effluent expectations were not being met. Testing determined that polymer bleed through from the geotextile tubes was the cause of the higher than expected effluent total suspended solids.

5.5 Performance

The water treatment plant was designed to remove suspended solids and dissolved organics such as PCBs. The WDNR's performance expectations of the plant are listed in Table 5-2.

TABLE 5-2
Water Treatment Plant Performance
Lower Fox River OU1 2004 Remedial Action

Parameter	WDNR Performance Expectations	Effluent Average	Effluent Maximum	Effluent Minimum
TSS (mg/L)	5 (monthly average)	13.5	21.3	4.3**
	10 (daily peak)	13.2	87	0.6
BOD (mg/L)	10*	5.7	24	2
PCB (ug/L)	<0.1-<0.5	<.25	<0.52	<0.24
Flow (MGD)	1.2-1.7	0.5	1.1	0.06
Ammonia (mg/L)	67*	12.5	43	0.3
Mercury (ng/L)	<0.2-<0.5	1.4	3.25	0.2

Notes:

* The water treatment plant does not treat either BOD or ammonia. The concentrations shown are the maximum expected effluent concentrations.

** Minimum effluent monthly average of 4.3 mg/L is from December 2004 for only two days.

The TSS effluent concentration did not consistently meet the WDNR's performance expectation. Early in the project, the TSS was typically in the 15-20 mg/L range with a high of 87 mg/L. Analytical tests determined that the TSS in the plant effluent was organic -- most likely polymer. Once the GAC was sufficiently backwashed and the polymer addition to the geotextile tubes was minimized, the effluent TSS decreased to a range of 5–10 mg/L. Even at high TSS concentrations, 2004 effluent tests detected no PCBs in the effluent.

Although mercury concentrations in the effluent were slightly higher than WDNR's performance expectations, they were typical of mercury concentrations measured in effluent during previous river dredging projects on the Fox River (e.g., Deposit N and 1999 56/57 demonstration projects).

The effluent data is shown in Appendix D, Environmental Monitoring.

5.6 Dewatering Polymer Carry Over

As stated above, the higher than expected TSS concentrations in the effluent appeared to be mostly organic and most likely polymer carry through from the geotextile tubes. Personnel from NALCO were requested to determine the charge of the water throughout the plant. The charge of the effluent was high. A coagulant was being added to the Sandfloat at the time. This coagulant addition was stopped. The charge was then tested again and was found to be reduced, but still high.

There was a concern that polymer was blinding the activated carbon in the GAC contactors. US Filter was requested to analyze the carbon and found that it was 4–12 percent volatile matter. The volatile matter is most likely polymer.

The polymer bleed through problem can be addressed in 2005 by monitoring the charge in the tube weep, proper polymer makedown, testing new chemical types and dosages ,and more carefully controlling polymer addition to reduce the bleed through. A chemical

addition ahead of the granular activated carbon units may be necessary to remove excess polymer.

SECTION 6

Hydraulic Sand Placement

A hydraulic transport and mechanical spreading system for sand placement was tested during the 2004 RA. Great care was taken to prevent turbulence from mixing the sediment into the capping material. This capping activity was intended to test the methodology for effectiveness and production rates.

The capping test took place immediately after the dredging was complete. This schedule allowed the use of the dredging equipment, piping, and crew.

6.1 Program and Process Description & Goals

The subcontractor 's scope was to place 1,300 tons of sand over a period of 10 operating days. Brennan assembled a placement system from existing used equipment to test the suitability of the system.

The sand placement system consisted of an 8-inch-diameter cutterhead type dredge pumping a sand slurry to a placement barge. Washed sand was purchased and placed near the dredge. The dredge would in turn pump the sand in a slurry about 1 mile to the placement barge.

On the placement barge, the slurry entered a sand screw for the separation of the sand from the water. The sand screw was capable of handling 150 yards per hour. The water from the slurry was discharged from the sand screw back to the river. From the sand screw, the sand was placed on a conveyor and then into a sand spreader. The sand spreader was of the broadcast type used to place sand and salt on roadways.

The sand placement barge was cabled to a spud barge, which kept its location precise. During operations, the spud barge would be placed in the target area. The placement barge was cabled along side the spud barge. The sand spreading began and the thickness of the sand was monitored by inserting and withdrawing a clear pipe. When the 6-inch thickness was achieved, the spreader barge was moved back along the spud barge.

6.2 Productivity

A 1-acre target site was selected to place sand in Sub-area E. The target thickness of the sand layer was set at 6 inches. During the first day of operation, sand was added to raise the surveyed elevation of the top of the sediment by 6 inches. It was determined that because of sediment consolidation, a sand layer about 12 inches thick was needed to achieve a 6-inch increase in bottom elevation. After this initial period, the operation was changed so that a 6-inch–thick sand layer was placed and monitored by core samples.

The system operated for a total of 98 hours. During that time, 1,460 tons of sand was placed over an area of 22,840 square feet. This amounted to a rate of 15 tons per hour or 233 square feet per hour of the target area.

The type of system tested could easily provide higher production rates with larger equipment.

6.3 Placement Accuracy

For 2004, a roughly 1-acre target area within Sub-area E was identified as a sand placement test area. A detailed discussion of the surveys and QA testing is presented in Appendix E.

Core samples were taken and the results are summarized in Appendix E. The average measured sand thickness from the 22 cores was 5.3 inches, with a range of sand thicknesses from 3 to 11 inches.

During the first day of operation, sand was added to raise the top of sediment elevation by six inches. A bathymetric survey monitored the resulting top of sand elevation. Consolidation of the underlying sediment from the weight of the sand resulted in a changing sand surface elevation. This placement criteria resulted in core-measured sand thicknesses ranging from 4 to 11 inches with an average sand thickness of 6 inches.

During the remainder of the sand placement, the sand was placed in an attempt to reach a uniform thickness of 6 inches. In the areas using this sand placement criteria, core-measured sand thickness ranged from 3 to 10 inches with an average sand thickness of 5 inches.

Based on visual observations of the cores, there was very little mixing between the soft sediment and sand. The mixing zone was about 0.5 inches.

Using the average core measured sand thickness and the approximate sand placement limits of 0.52 acre, results in an estimated in-place sand volume of 370 cubic yards.

SECTION 7

Summary

7.1 Project Performance versus Objectives

The Final 2004 RA Work Plan (CH2M HILL, May 2004) defined the purpose of the 2004 RA activities as follows:

> *"The results from the 2004 RA will provide critical data to optimize operations when production-scale sediment removal begins in 2005. Remediation activities are proposed for 2004 to achieve the following:*
>
> - *Confirm the cost-effectiveness and implementability of dewatering OU1 dredged sediments with geotextile tubes*
> - *Determine type of cutter head to be used for production dredging*
> - *Determine reasonable dredging, treatment, and dewatering operating parameters to refine bids for the 2005 dredging season*
> - *Implement soil preload, if necessary, prior to final dewatering pad construction in 2005*
> - *Allow production dredging to begin in the spring of 2005 instead of in the summer/fall*
> - *Develop a proof of concept for the method of hydraulic sand placement."*

To various degrees, the 2004 RA successfully met all the objectives set forth in the work plan as follows:

- *Confirm the cost-effectiveness and implementability of dewatering OU1 dredged sediments with geotextile tubes*

  All of the sediment fed to the geotextile tubes dewatered sufficiently to be accepted for disposal at the Onyx Hickory Meadows Landfill. Sediments from Sub-areas A, D, and E readily dewatered within a few weeks. (Note: Sediment from Sub-areas D and E contained a considerable amount of native clay that underlies the soft sediment.) Sub-area POG2 was dredged at the end of the season and sampling had to be discontinued early in the dewatering process when the geotextile tubes froze. At that time, the percent solids for POG2 material was between 25 and 48 percent. A number of the tubes were left on the dewatering pad over the winter. Percent solids data gathered in the spring consisted of grab samples from the trucks hauling the dewatered sediment to landfill. These percent solids results ranged from approximately 30 to 50 percent.

  The overall cost-effectiveness of geotextile tube dewatering the OU1 dredged sediments is dependent in part on landfill disposal costs. The landfill disposal cost will increase significantly if the dewatered sediment's physical characteristics (e.g., low strength) make it not "workable" at the landfill.

The Onyx Hickory Meadows Landfill was able to dispose of the 2004 RA's dewatered sediment in the landfill by commingling it with municipal waste. However, based on their experience handling the 2004 RA dewatered sediment, Onyx concluded that the material was not workable and a different disposal technique (e.g., monofill disposal) would be necessary in 2005 and beyond. The cause of the dewatered sediment not being workable was not conclusively identified. Additional experience and data gained from landfilling OU1 sediment in 2005 will be required to provide the information on the dewatered sediment's workability that is necessary to determine the cost-effectiveness of dewatering with geotextile tubes compared to other dewatering technologies.

- *Determine type of cutter head to be used for production dredging*

  Two cutterheads, a serrated type and a high viscosity type, were utilized. During the dredging of the soft sediment, little or no increase in turbidity was observed during operation. There did not seem to be any turbidity difference between the cutterheads. At certain locations where rock was encountered on the bottom, the high viscosity cutterhead more easily bounced over the rock. The serrated cutterhead tended to grab and move the rock. A high viscosity cutterhead is recommended where large amounts of rock are anticipated at the bottom of the dredge cut.

- *Determine reasonable dredging, treatment, and dewatering operating parameters to refine bids for the 2005 dredging season*

  The productivity rates and dewatering rates presented in this report will help define operating parameters in 2005 and beyond. The issue of polymer carry over into the water treatment plant was identified and needs to be addressed in 2005.

  Best Management Practices were employed during dredging to reduce TSS in the river and recontamination of the sediment. Given the minimal increase of turbidity from the dredging, these practices were successful. The practices included the following:

  1. Bio-degradable vegetable oil was used in lieu of hydraulic oil to operate the dredge hydraulics. This practice eliminated the potential contamination of surface waters with petroleum product if a break had occurred in a hydraulic line on the dredge.

  2. The operator started the dredge pump prior to starting the cutterhead. This eliminated suspension of sediment prior to the dredge pump being able to capture it.

  3. The dredge pump was stopped several minutes after the cutterhead was turned off in the reverse order as the start up.

  4. The cutterhead speeds were operated at minimum levels. Increased cutterhead speeds serve to increase sediment suspension. Minimizing cutterhead speed reduced sediment suspension/resuspension.

  5. The dredge operated in an upstream to downstream manner to minimize recontamination of the area.

6. Dredge line blowback was prevented by installation of a knife valve inserted behind the dredge to prevent a backflow through the dredge pipe when the dredge was not operating. A manual verification that the knife valve was closed or opened was required.
7. The dredge pipe was inspected daily for leaks and other problems.
8. A well-understood chain of command was developed for actions during emergencies.

- *Implement soil preload, if necessary, prior to final dewatering pad construction in 2005.*

  A soil preload is not required for expanding the dewatering pad. The east and north 2005 berms were constructed to minimize the potential delays in completing the pad in the spring of 2005.

- *Allow production dredging to begin in the spring of 2005 instead of in the summer/fall.*

  The completed construction will allow production dredging to begin in the spring of 2005.

- *Develop a proof of concept for the method of hydraulic sand placement*

  The hydraulic placement of sand at the end of the 2004 RA proved the concept that a sand cap can be placed without disturbing the soft sediment beneath. The coring of the sand layer indicated about 0.5 inches of sand sediment mix, with the upper portions being clean sand. Sand placement production rates can be significantly increased in the future using larger equipment.

7.2 Challenges Encountered and Lessons Learned

7.2.1 Reporting

During the dredging, reporting between GW Partners, the Supervising Contractor (CH2M HILL), WDNR, and USEPA consisted of the following.

- Weekly
  - Production Report with weekly production figures and other issues encountered
  - Conference call to discuss the production report and permitting issues
  - Environmental monitoring report containing the recently collected data
  - Production meeting to discuss activities for the up coming week
- Monthly
  - Project progress report

A planning meeting with representatives from GW Partners, the Supervising Contractor's team, and the agencies is recommended for the 2005 RA to define the subjects of interest and formal communication channels..

7.2.2 Operational

A number of 2004 RA issues arose and should be further addressed in 2005 and beyond. The following discussion summarizes some of these issues.

7.2.2.1 Turbidity Monitoring

During the 2004 RA, turbidity was continuously monitored in three locations using probes on rafts communicating real time data to a computer. Real time data could be read through the Internet. There was no perceivable increase in turbidity caused by dredging or sand placement.

It is recommended that a review of the data obtained during the 2004 RA be performed to develop/adjust protocols for turbidity monitoring during the 2005 RA. The proposal for the use of turbidity meters in 2005 will be presented in the 2005 RA Work Plan. Monitoring of the surface water during dredging can occur at the immediate dredge-head zone, at an intermediate zone (100-500 feet of the dredge), and at a far range zone (500 feet or greater from the dredge-head). The locations of the turbidity meters during the 2004 RA (i.e., intermediate and far range zones) were important in that the data showed that resuspension and transport of sediment particles did not impact the water column with distance from the dredging work. Turbidity increases in the immediate zone would be expected, but would not be indicative of significant impact to the water column.

It would be very difficult to maintain the real time turbidity monitor buoys at much closer distances than where they were operated in 2004 because the dredges are constantly moving. The turbidity of the shallow Little Lake Butte des Morts is much more affected by wind and, during rain events, by discharge from tributaries, such as the Neenah Slough, then by the dredging operations. On November 5, manual turbidity readings were taken at intervals close to the dredge. No perceivable increase in turbidity was noted except for a rise of 10 NTU right above the cutterhead.

Based on the turbidity monitoring results from the 2004 RA, periodic manual turbidity readings would be sufficient for monitoring the dredge operations. Real time turbidity monitoring could be re-established if dredge-related turbidity increased significantly beyond what was found in 2004.

7.2.2.2 Clay & Rock Above Target Elevation.

In Sub-area A Region VIII(R) and most of Sub-area POG2, the clay that underlies the soft sediment was encountered above the target elevation defined by the sediment interpolation model. A procedure should be defined in 2005 and beyond to address this issue. That procedure should include documenting the location of the clay/rock.

7.2.2.3 Rock Area on Bottom

A large area of rock above the target elevation was encountered near the west shore of Sub-area A. With this type of subsurface, the 1 ppm PCB target may not be able to be met by hydraulic dredging. It is recommended that the dredge sweep the rocky area with the viscous cutter head, which would tend to remove the sediment above the rocks. In 2005, consideration should be given if a sand cap must be placed upon the rock after dredging.

7.2.2.4 New Sediment Accumulation

On October 14, dredging was completed in Sub-area A Region VIII(R) and the dredge was relocated to Sub-area POG2. Forty-nine days later, the dredge was relocated back to Sub-area A Region VIII(R) to remove 20 yards left during the previous dredging. It was discovered that over 220 yards of new sediment had accumulated in this relatively small area.

In 2005 and beyond, an area must be final surveyed promptly upon completion.

7.2.2.5 Bathymetric Survey

Future bathymetric surveys and subsequent QA procedures should be completed in accordance with standards set forth in United States Army Corps of Engineers EM 1110-2-1003 and/or International Hydrographic Organization IHO S-44.

Pre-dredge and post-dredge surveys should be done with a consistent boat speed of 2–6 miles per hour and the same tracks should be taken. The resulting post-dredge survey should be acknowledged and stamped by a licensed Wisconsin surveyor.

7.2.2.6 Water Treatment Plant Polymer Carry Over

The polymer carry through in the water treatment plant needs to be solved in 2005 to meet the TSS in the effluent expectations. Monitoring of the geotextile tube weep combined with other measures to reduce the polymer concentration in the water treatment plant should solve the issue.

7.2.2.7 Treatment Plant Effluent Expectations

Consideration should be given to increasing the TSS performance expectation to 10 mg/L monthly average and 20 mg/L daily peak in the effluent, while maintaining the current PCB performance expectation. Even at the higher TSS concentrations experienced in 2004, PCB testing of the effluent resulted in non-detect levels. As such, there was no relationship between TSS and PCB concentrations.

7.2.2.8 Sand Layer Thickness QA

The sand layer thickness QA must be measured through core samples, not bathymetric surveys because of sediment consolidation under the sand's weight.

7.2.2.9 Sediment Haul Out

The current method of sediment hauling and truck loading is spreading the dewatered sediment into the gravel. This sediment is plugging the gravel and necessitating the removal and replacement of the impacted gravel layer. The loading method should be revised using different equipment that allows the sediment to be picked up and placed directly in the truck's trailer or the pad should be paved.

Figures

FIGURE 2-1

2004 RA Organization Chart

Lower Fox River OU1 Remedial Action

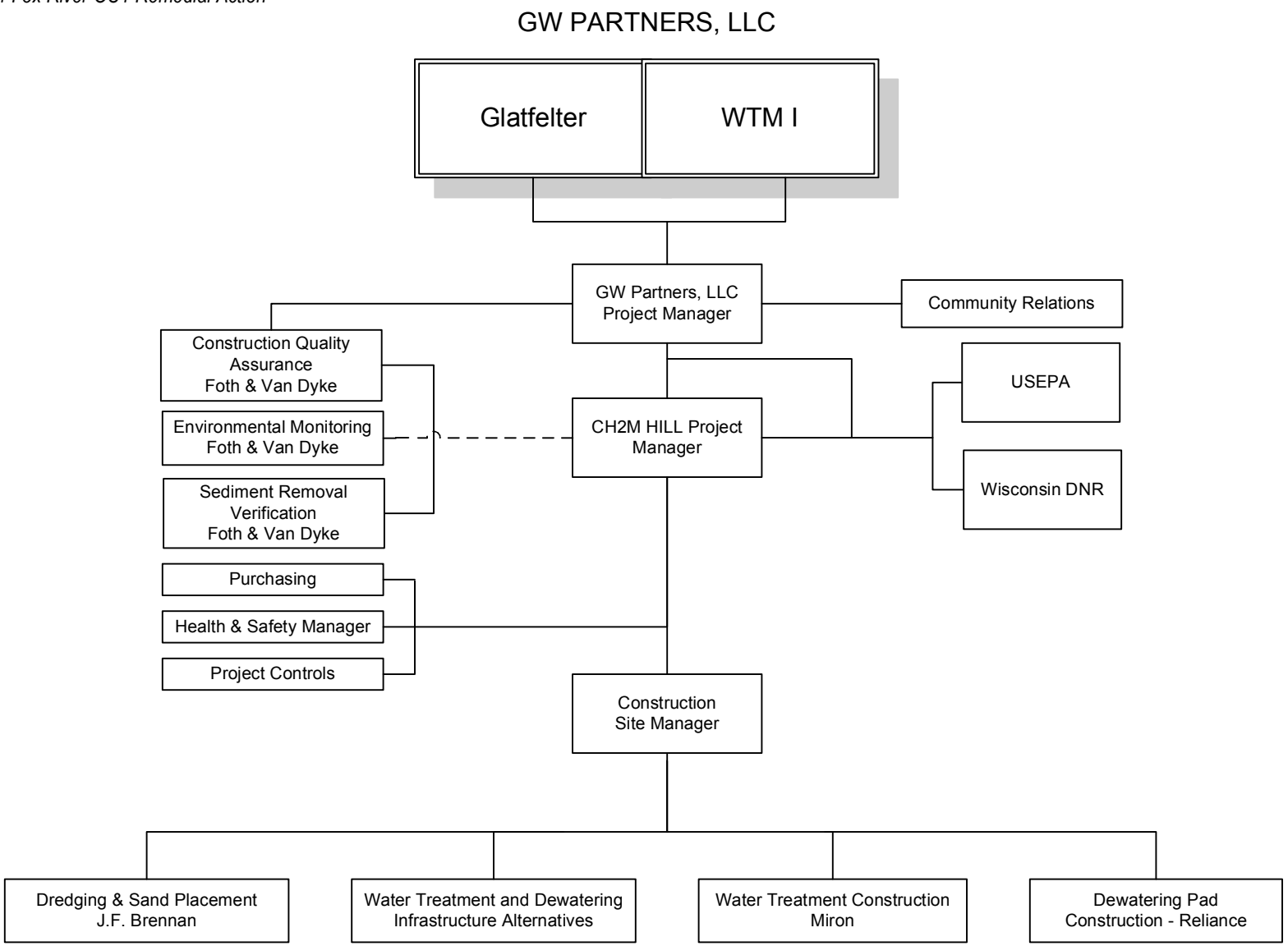
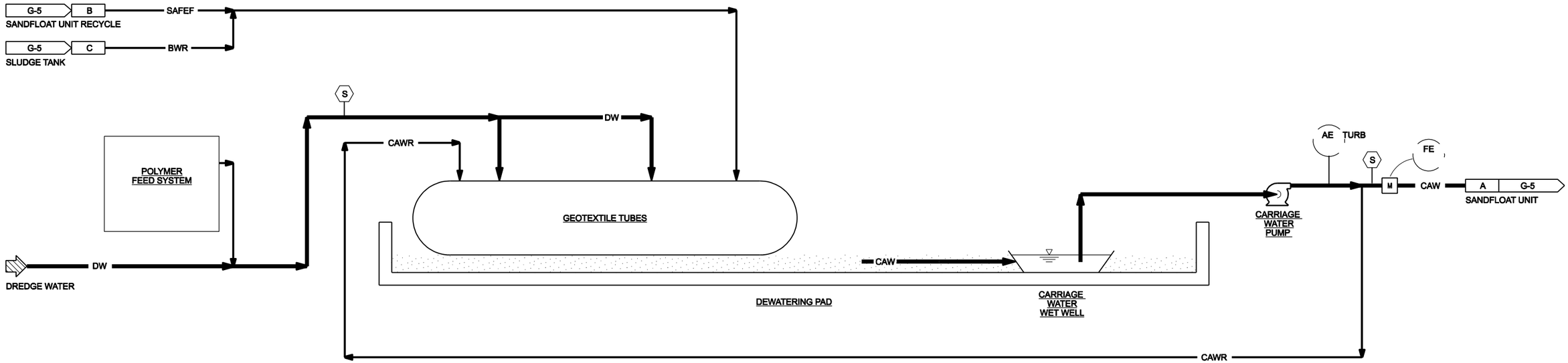


FIGURE 2-2
2004 Remedial Action Schedule
Lower Fox River OU1 Remedial Action

FIGURE 2-2 - LFR OU1 2004 RA Schedule

Project: LFR OU1 RA
Date: 1/24/2005

Task
Progress
Milestone
Summary
Rolled Up Task
Rolled Up Milestone
Rolled Up Progress
Split
External Tasks
Project Summary
Group By Summary



FLOW STREAM IDENTIFICATION

LEGEND	SERVICE
BWR	BACKWASH RECYCLE
BWS	BACKWASH
CAW	CARRIAGE WATER
CAWR	CARRIAGE WATER RECYCLE
DW	DREDGE WATER
FLBWR	FLOAT AND BACKWASH RETURN
GACB	GRANULATED ACTIVATED CARBON BACKWASH
GACEF	GRANULATED ACTIVATED CARBON EFFLUENT
POS	POLYMER SOLUTION
SAFEF	SANDFLOAT EFFLUENT

FIGURE 4-1

DSGN W.M.ANDRAE						VERIFY SCALE	CH2MHILL
DR D.A.BROWN						BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	
CHK R.SWAMINATHAN							
APVD S.D.LAVIOLETTE	NO.	DATE	REVISION	BY	APVD		

LOWER FOX RIVER (OU1) 2004 REMEDIAL ACTION
TOWN OF MENASHA, WI

WATER TREATMENT PROCESS

G.W. PARTNERS, LLC

GENERAL

EXISTING SEDIMENT DEWATERING SYSTEM
PROCESS FLOW DIAGRAM

SHEET	
DWG	G-4
DATE	MAY 2004
PROJ	315614.RA.01

FILENAME: fr6fg004ad_183838.dgn PLOT DATE: 03-FEB-2005 PLOT TIME: 11:23:19

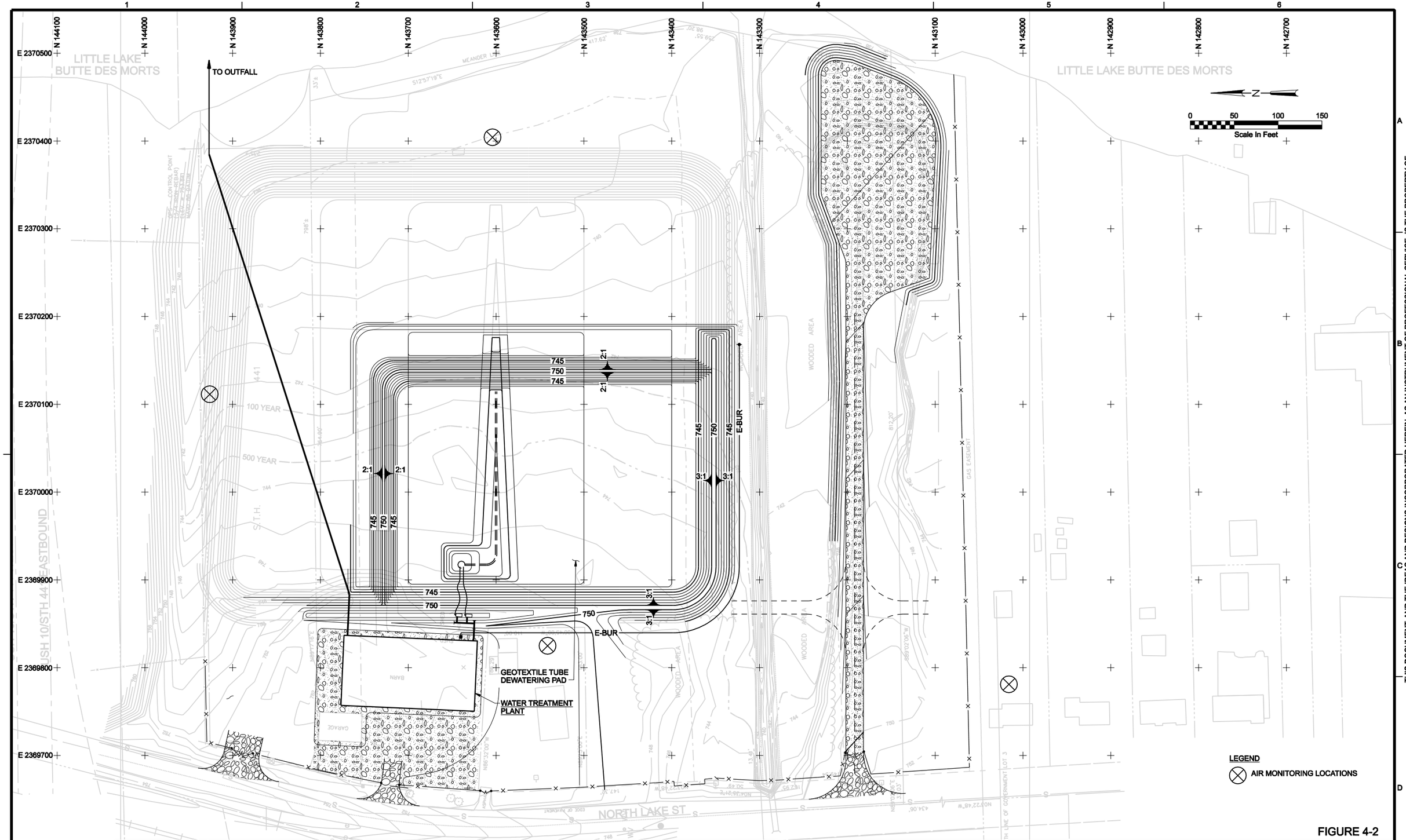


FIGURE 4-2

DSGN C.M.LIETHEN DR J.M.ZAFFKE CHK D.J.PLOMB APVD S.D.LAVIOLETTE	NO.	DATE	REVISION	BY	APVD	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CH2MHILL	LOWER FOX RIVER (OU1) 2004 REMEDIAL ACTION TOWN OF MENASHA, WI 2004 WATER TREATMENT PROCESS G.W. PARTNERS, LLC

2004 SITE PLAN

SHEET	
DWG	C-1
DATE	MAY 2004
PROJ	315614.RA.01

FILENAME: fr6nc141d_183838.dgn PLOT DATE: 03-FEB-2005 PLOT TIME: 11:22:52

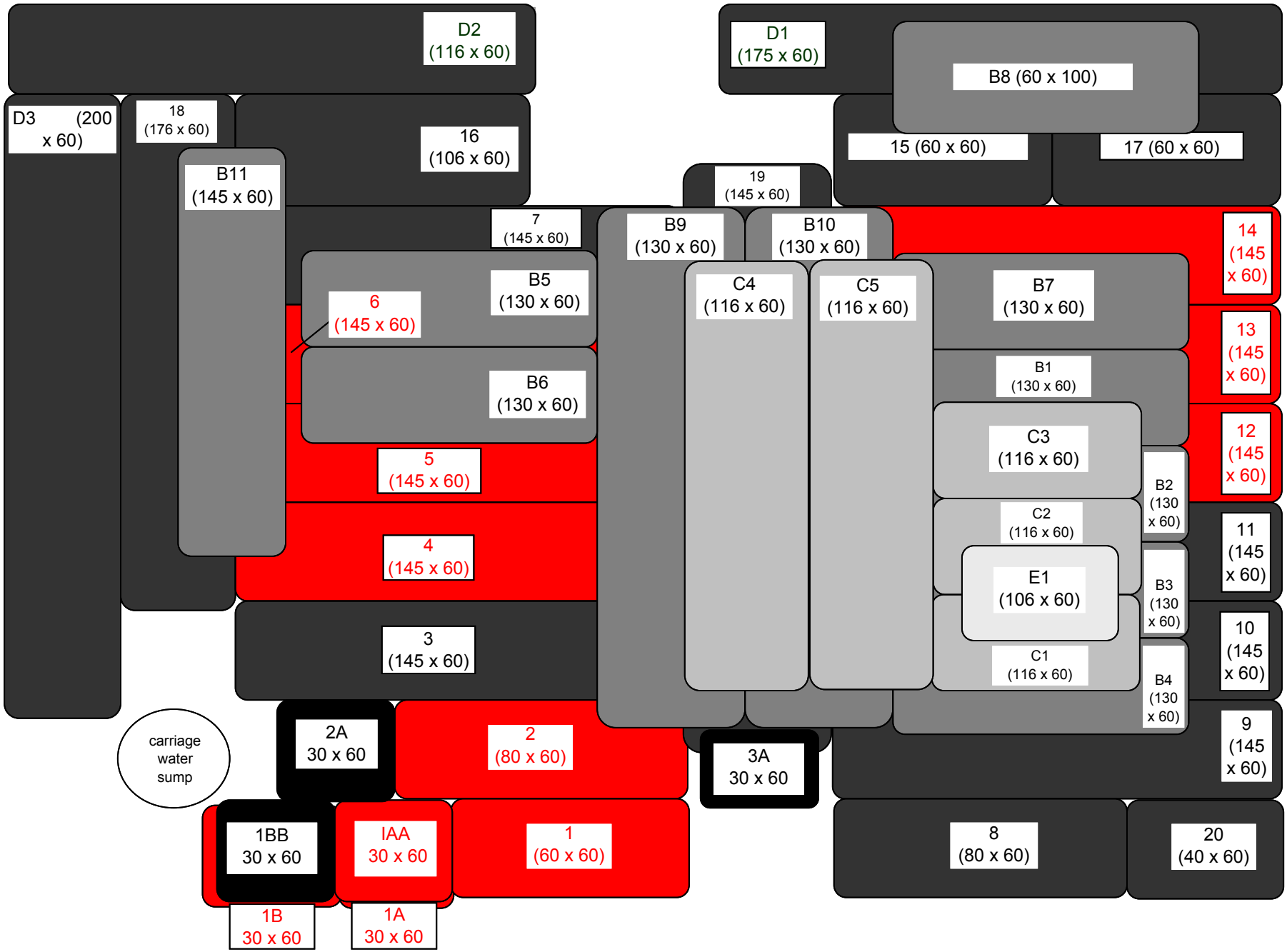


Figure 4-3
Final Geotextile Tube Layout

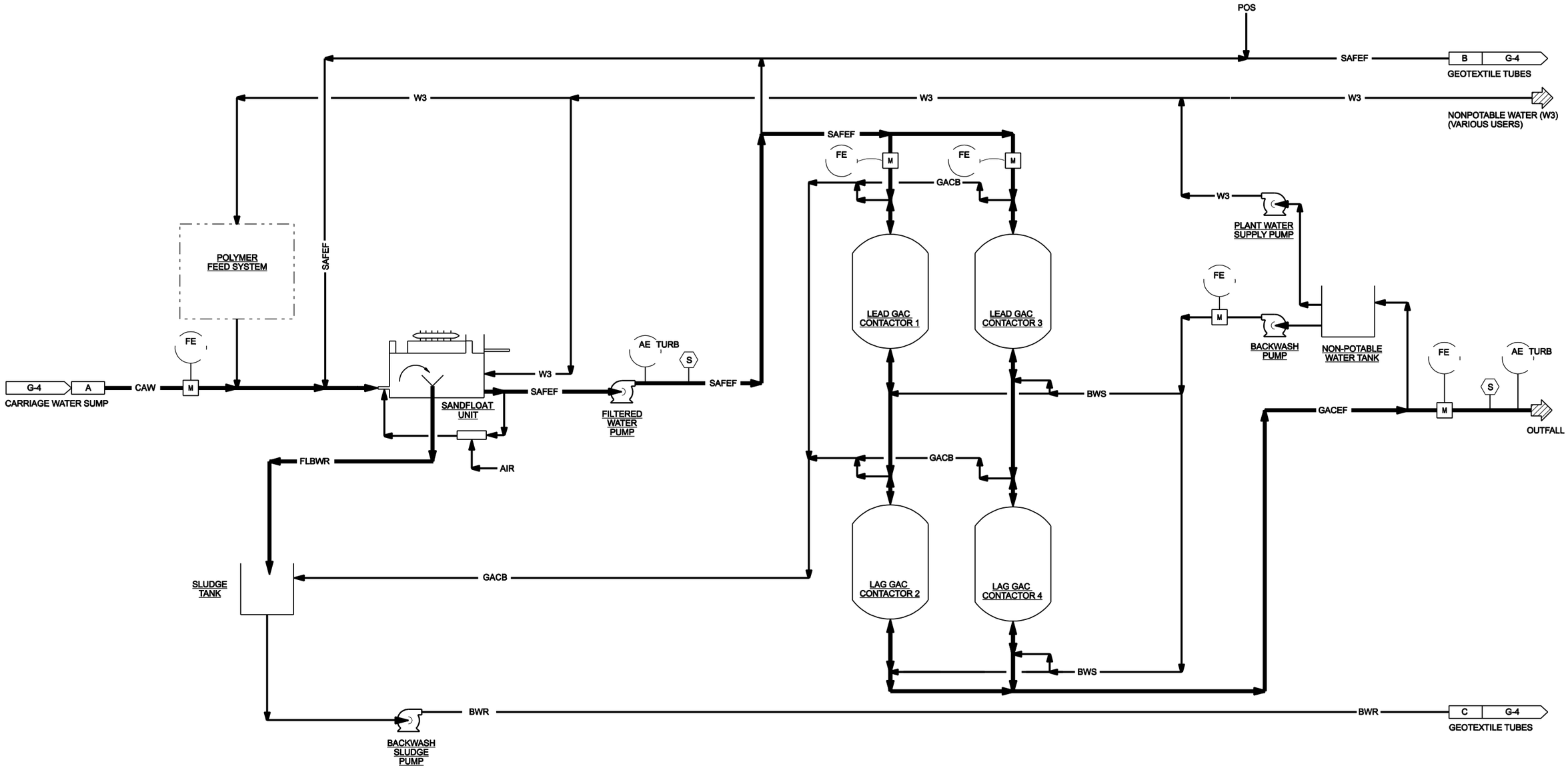


FIGURE 5-1

DSGN W.M.ANDRAE DR D.A.BROWN CHK R.SWAMINATHAN APVD S.D.LAVIOLETTE	NO.	DATE	REVISION	BY	APVD	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CH2MHILL	LOWER FOX RIVER (OU1) 2004 REMEDIAL ACTION TOWN OF MENASHA, WI WATER TREATMENT PROCESS G.W. PARTNERS, LLC	GENERAL WATER TREATMENT PLANT PROCESS FLOW DIAGRAM	SHEET DWG G-5 DATE MAY 2004 PROJ 315614.RA.01

FILENAME: fr6ng005d_183838.dgn PLOT DATE: 03-FEB-2005 PLOT TIME: 11:23:51

Appendix A
Weekly Production Reports

LFR OU1 2004 RA Operation Status Report September 24, 2004

PREPARED FOR: Bill Hartman, GW Partners
Ben Hung, WDNR
Jim Hahnenburg, USEPA
Boldt Oversight Team

PREPARED BY: Sherman Laviolette

DATE: September 27, 2004

This report covers the dredging, geotube de-watering and water treatment plant operations from August 30 to September 24, 2004. From August 30 until September 14th hydraulic dredging consisted of construction activities including the marine access channel and the trench for the outfall pipe. Starting on September 15th, hydraulic dredging began in Section IV of Deposit A.

The geotubes and water treatment plant have treated all sediment and flow from the hydraulic dredge.

It is anticipated that this type of memorandum will be issued weekly

General Status:

Dredging is currently planned for two shifts of 8 hours each or a total of 16 hours per day. The actually dredge operating time is measured. The reason for down time is then assessed. There are times that the dredger is responsible for the down time such as a clogged cutterhead and a mechanical problem. There are other occurrences that downtime is caused by the geotube or treatment plant operations. Examples include laying problems with the chemical feed systems and construction on the pad that limits the geotube operation.

During September 24th and 27th, construction on the geotubes pads restricted operation. The construction will be complete on September 28th with full 16-hour days resuming.

Dredging Status:

Dredging continues in Section IV of Deposit A. The dredge is moving in a north to south direction with a cut width of a 42 foot. When a cut is completed, the dredge is moved west to the next cut.

The material removed from Deposit A consisted of mostly sand and gravel, with little soft sediment in the eastern area of Section IV. The sediment contains a greater amount of soft sediment in the western portion of Section IV.

The model generated sediment volumes to be removed in Section IV of Deposit A averages approximately 0.471 ft. This results in daily volumes of yards removed to be around 200 cubic yards.

Table 1 - Dredge Performance

Day	Dredger % Uptime	Hourly Sq. Ft.	Overdredge Ft.	Insitu Yds Removed	Actual Hours Dredged	Overall Project Uptime
09/15/2004	89.0%	461	0.46	206	11.75	73%
09/16/2004	96.0%	456	0.4	213	14.50	91%
09/17/2004	97.5%	446	0.62	149	8.00	80%
09/20/2004	98.4%	434	0.49	189	14.50	91%
09/21/2004	94.0%	417	0.17	219	13.50	84%
09/22/2004	100.0%	497	0.62	200	13.75	86%
09/23/2004	100.0%	611	0.38	155	11.00	69%
09/24/2004	100.0%	640	0.10	137	4.00	50%
Project Averages	**96.9%**	**495**	**0.41**	**1467**		**78.0%**
			Previous Yards	**2400**		
			Total Yards	**5334**		

The overall project uptime refers to the downtimes caused by both the dredger and the geotube/treatment operations. This should improve due to the completion of modifications to the geotube dewatering pad and the treatment plant.

Geotube De-watering Operation:

Currently, there are twelve full size Geotubes and 2 tubelets deployed on the pad. The table below summarizes the contents of each tube, as of September 24th. Please note that the tube volumes and % solids include the free water at the top of the tube during sampling.

Tubes 8 and 9, which are listed as inactive, have only been inactive since September 21. As such, the per cent solids data listed is after only three days of aging.

Table 2 - Geotube Summary

Geotube	Size	Contents	Status	Volume cyds	% Solids	Date of % Solids
1	60 ft X 60 ft	D, E	Inactive	192	61.1%	24-Sep
2	60 ft X 80 ft	D, E, A	Topping Off	327	45.2%	24-Sep
3	60 ft X 145 ft	D, E, A	Topping Off	767	40.0%	24-Sep
4	60 ft X 145 ft	D, E, A	Active	767	46.6%	24-Sep
5	60 ft X 145 ft	D, E, A	Active	778	34.1%	24-Sep
6	60 ft X 145 ft	A	Active	519	59.4%	24-Sep
7	60 ft X 145 ft					
8	60 ft X 80 ft	D, E	Inactive	310	47.6%	24-Sep
9	60 ft X 145 ft	D, E	Inactive	627	45.8%	24-Sep
10	60 ft X 145 ft	D, E	Inactive	547	61.4%	24-Sep
11	60 ft X 145 ft	D, E, A	Topping Off	810	48.5%	24-Sep
12	60 ft X 145 ft	A	Active	443	Pending	
13	60 ft X 145 ft	A	Active	471	72.3%	24-Sep
14	60 ft X 145 ft					
Total				**6558**		
Total Insitu Yards				**5334**		
Bulk Factor				**1.23**		

Each 145-ft Geotube will hold roughly insitu 900 cyds of sediment. During filling, it is difficult to separate one deposit from another. There are several geotubes on line at any one time to handle the flow. Referring to Table 2, there was roughly 1000 insitu cyds of Deposit D (with clay) and 1400 cyds of Deposit E. Geotubes 1-3 and 11 are predominately Deposit E with minor amounts of D and A. Tubes 4 and 5 are predominately E and A. Tubes 8-10 are predominately D.

Water Treatment Plant Operation:

The water treatment plant has not been operated continuously. The gravel Geotube dewatering pad offers enough water storage to allow for intermittent treatment operation. The intermittent operation of the treatment plant makes daily comparisons of plant flow to the dredge slurry flow difficult. However, flow totals offer a better comparison.

Backwash from both the dissolved air flotation/sand filtration unit and the granular activated carbon units is collected and sent back to the geotubes. This accounts for the difference between the WTP influent and effluent flows. Table 3 summarizes dredge flow and treatment plant flow.

Table 3 - Treatment Plant Operation

Day	Dredge Flow MGD	WTP Influent Flow MGD	WTP Effluent Flow MGD
09/15/2004	0.86	-	-
09/16/2004	0.69	0.88	0.79
09/19/2004	0.43	0.52	0.53
09/20/2004	0.78	1.31	1.13
09/21/2004	0.89	0.38	0.31
09/22/2004	0.93	0.55	0.42
09/23/2004	0.64	1.12	0.99
09/24/2004	0.24	0.46	0.40
Totals	**5.46**	**5.22**	**4.56**

Water treatment plant effluent is monitored by Foth & Van dyke under their environmental monitoring contract.

Upcoming Week of September 27th:

We are anticipating that during the week of September 27th, Section IV of Deposit A will be completed. At that we anticipate that the dredge will be relocated to revised Area VIII of Deposit A. This area is near the southwest corner of Deposit A. This Area was selected for the lighter nature of the soft sediment and that fact that it is heavily vegetated.

All geotube pad construction will be complete and this will allow for the deployment of larger Geotubes. This will allow for operation of the dredge for a full 16-hours/day.

LFR OU1 2004 RA Operation Status Report October 1, 2004

PREPARED FOR: Bill Hartman, GW Partners
Ben Hung, WDNR
Jim Hahnenburg, USEPA
Boldt Oversight Team

PREPARED BY: Sherman Laviolette

DATE: October 4, 2004

This report covers the dredging, geotube de-watering and water treatment plant operations from September 27 to October 1, 2004. During this period, hydraulic dredging occurred in Section IV of Deposit A. All sediment and flow from the hydraulic dredge have been treated in geotubes and water treatment plant

General Status:

Dredging during the period was in two shifts of 8 hours each or a total of 16 hours per day.

Dredging Status:

Dredging continues in Section IV of Deposit A. The dredge is moving in a north to south direction with a cut width of a 42 foot. When a cut is completed, the dredge is moved west to the next cut.

The material removed from Deposit A consisted of mostly sand and gravel, with little soft sediment in the eastern area of Section IV. The sediment contains a greater amount of soft sediment in the western portion of Section IV.

The model generated sediment volumes to be removed in Section IV of Deposit A averages approximately 0.471 ft. These results in daily volumes of yards removed to be around 200 cubic yards.

Table 1 - Dredge Performance

Day	Dredger % Uptime	Hourly Sq. Ft.	Overdredge Ft.	Insitu Yds Removed	Actual Hours Dredged	Overall Project Uptime
09/27/2004	93%	690.6	0.52	341	15	93%
09/28/2004	100%	642.06	0.56	601	16	100%
09/29/2004	100%	802.33	0.48	553	14	88%
09/30/2004	96%	632.58	0.81	491	14.25	89%
10/01/2004	100%	771.18	0.61	308	14.5	100%
Period Averages	**97.8%**	**707.75**	**0.60**	**2294**		**93.9%**
Project Averages	**97.22**	**576.96**	**0.55**			**84.1%**
			Previous Yards	5630		
			Total Yards	**7,924**		

The overall project uptime refers to the downtimes caused by both the dredger and the geotube/treatment operations. This should improve due to the completion of modifications to the geotube dewatering pad and the treatment plant.

On October 1 we limited the dredging to 14.5 hours due to high winds and heavy rains.

Geotube De-watering Operation:

Currently, there are fifteen full size Geotubes and 2 tubelets deployed on the pad. The table below summarizes the contents of each tube, as of October 1st. Please note that the tube volumes and % solids include the free water at the top of the tube during sampling.

Table 2 - Geotube Summary

Tube	Size	Contents	Status	Volume cyds	% Solids	Date of % Solids
1	60 ft X 60 ft	D, E	Inactive	171	65.3%	01-Oct
2	60 ft X 80 ft	D, E, A	Topping Off	310	45.2%	01-Oct
3	60 ft X 145 ft	D, E, A	Topping Off	559	40.0%	01-Oct
4	60 ft X 145 ft	D, E, A	Active	809	46.6%	01-Oct
5	60 ft X 145 ft	D, E, A	Active	496	34.1%	01-Oct
6	60 ft X 145 ft	A	Active	396	59.4%	01-Oct
7	60 ft X 145 ft	A	Active	Pending	Pending	
8	60 ft X 80 ft	D, E	Inactive	289	47.6%	29-Sep
9	60 ft X 145 ft	D, E	Inactive	627	45.8%	30-Sep
10	60 ft X 145 ft	D, E	Inactive	578	61.4%	30-Sep
11	60 ft X 145 ft	D, E, A	Topping Off	534	48.5%	29-Sep
12	60 ft X 145 ft	A	Active	678	Pending	30-Sep
13	60 ft X 145 ft	A	Active	614	72.3%	30-Sep
14	60 ft X 145 ft	A	Active	391		01-Oct
D1	60 ft X 175 ft	A	Active	372	Pending	
Total				**6061**		

Total Insitu Yards	**7924**
Bulk Factor	**0.76**

The bulk factor for the insitu volume versus the tube volume is 0.76. This could be due to inherent errors in either volume measurement of the tubes and the insitu sediment removed or significant compaction of light, fluffy sediment. We are investigating the accuracy of the geotubes volume measurement and pursuing other methods.

Water Treatment Plant Operation:

The water treatment plant has not been operated continuously. The gravel Geotube dewatering pad offers enough water storage to allow for intermittent treatment operation. The intermittent operation of the treatment plant makes daily comparisons of plant flow to the dredge slurry flow difficult. However, flow totals offer a better comparison.

Backwash from both the dissolved air flotation/sand filtration unit and the granular activated carbon units is collected and sent back to the geotubes. This accounts for the difference between the WTP influent and effluent flows. Table 3 summarizes dredge flow and treatment plant flow.

Table 3 - Treatment Plant Operation

Day	Dredge Flow MGD	WTP Influent Flow MGD	WTP Effluent Flow MGD	Krofta Influent TSS mg/L	Krofta Effluent TSS mg/L	GAC Effluent TSS mg/L
09/27/2004	1.05	0.75	0.58	20	<10	NA
09/28/2004	0.82	1.16	0.69	15	10	NA
09/29/2004	0.74	0.82	0.65	20	<10	NA
09/30/2004	0.76	0.55	0.47	89	<20	20
10/01/2004	0.83	0.96	0.77	NA	10	30
Totals	**4.19**	**4.24**	**3.15**			

Prior to Thursday September 30, we were not sampling the GAC effluent during process control sampling. Prior to that date we were using Foth & Van Dyke final effluent quality data. We decided to monitor effluent TSS ourselves to assist in process control to reduce the TSS. The GAC effluent TSS is monitored using grab samples. While the TSS numbers have been decreasing throughout September we will continue to adjust and fine tune the plant operation to reduce the TSS further in the GAC effluent. We are currently testing different polymers in the Krofta unit to try to reduce the TSS going into the GAC units.

Water treatment plant effluent is monitored by Foth & Van dyke under their environmental monitoring contract.

Upcoming Week of October 4, 2004:

We have completed dredging Area VIII of Deposit A and relocated the dredge to revised Area VIII of Deposit A. This area is near the southwest corner of Deposit A. This Area was selected for the lighter nature of the soft sediment and that fact that it is heavily vegetated.

We will be dredging 24 hours per day until Friday to assess the current geotube layout's ability to meet that schedule.

LFR OU1 2004 RA Operation Status Report October 8, 2004

PREPARED FOR: Bill Hartman, GW Partners
Ben Hung, WDNR
Jim Hahnenburg, USEPA
Boldt Oversight Team

PREPARED BY: Sherman Laviolette

DATE: October 11, 2004

This report covers the dredging, geotube de-watering and water treatment plant operations from October 4 to October 8, 2004. During this period hydraulic we were dredging in Section IV of Deposit A. All sediment and flow from the hydraulic dredge have been treated in geotubes and water treatment plant

General Status:

Dredging during the period was planned to be in two shifts of 12 hours each or a total of 24 hours per day beginning Monday, October 4th at 7 AM.

Dredging Status:

Dredging was finished in Subsection IV of Deposit A at 1:30 PM The material removed from western portion of Subsection IV consisted of primarily soft sediment with little sand and gravel.

The dredge was moved to Subsection VIII of Deposit A and dredging resumed. Subsection VIII sediment consists of loose highly organic matter and is highly vegetated.

Table 1 - Dredge Performance

Day	Dredger % Uptime	Hourly Sq. Ft.	Overdredge Ft.	Insitu Yds Removed	Actual Hours Dredged	Overall Project Uptime
10/04/2004	58%	670.77	0.51	83	6	35%
10/05/2004						0%
10/06/2004	87%	764.77	0.40	574	13.5	79%
10/07/2004	86%	676.44	0.30	719	18.5	77%

10/08/2004	87%	830.1	0.26	433	10.5	46%
Period Averages	**79.5%**	**735.52**	**0.37**	**1809**		**47.5%**
Project Averages	**93.1%**	**614**	**0.45**			**73.9%**
			Previous Yards	**6309**		
			Total Yards	**8,118**		

The overall project uptime refers to the downtimes caused by both the dredger and the geotube/treatment operations.

On October 4 we split geotube number 4 at 8:45 PM. This necessitated the shut down of the project on the October 5th to clean the dewatering pad.

Geotube De-watering Operation:

Currently, there are seventeen full size Geotubes and 2 tubelets deployed on the pad. The table below summarizes the contents of each tube, as of October 8th. Please note that the tube volumes and % solids include the free water at the top of the tube during sampling.

Table 2 - Geotube Summary

Tube	Size	Contents	Status	Volume cyds	% Solids	Date of % Solids
1	60 ft X 60 ft	D, E	Inactive	181	56.8%	11-Oct
2	60 ft X 80 ft	D, E, A	Topping Off	331	48.8%	11-Oct
3	60 ft X 145 ft	D, E, A	Topping Off	609	46.5%	11-Oct
4	60 ft X 145 ft	D, E, A	Inactive	809	59.5%	01-Oct
5	60 ft X 145 ft	D, E, A	Active	684	41.1%	11-Oct
6	60 ft X 145 ft	A	Active	778	71.4%	04-Oct
7	60 ft X 145 ft	A	Active	743	32.3%	11-Oct
8	60 ft X 80 ft	D, E	Inactive	310	46.2%	11-Oct
9	60 ft X 145 ft	D, E	Inactive	731	46.6%	11-Oct
10	60 ft X 145 ft	D, E	Inactive	612	61.8%	11-Oct
11	60 ft X 145 ft	D, E, A	Topping Off	762	40.7%	11-Oct
12	60 ft X 145 ft	A	Active	902	72.3%	11-Oct
13	60 ft X 145 ft	A	Active	751	74.6%	11-Oct
14	60 ft X 145 ft	A	Active	790	73.8%	11-Oct
D1	60 ft X 175 ft	A	Active	726	43.1%	11-Oct
D2	60 ft X 116 ft	A	Active	481	24.9%	11-Oct
D3	60 ft X 200 ft	A	Active	881	29.8%	11-Oct
Total				**11081**		
Total Insitu Yards				**8118**		
Bulk Factor				**1.36**		

The bulk factor for the insitu volume versus the tube volume is 1.36.

It should be noted that the sampling technique does result is a bias toward lower % solids in the older tubes. As sediment cores are taken at the same location water tends to accumulate there. Once the tube is determined to be permanently inactive, cuts will be made in the top of the tubes to get more representative samples.

Water Treatment Plant Operation:

The water treatment plant has not been operated continuously. The gravel Geotube dewatering pad offers enough water storage to allow for intermittent treatment operation. The intermittent operation of the treatment plant makes daily comparisons of plant flow to the dredge slurry flow difficult. However, flow totals offer a better comparison.

Backwash from both the dissolved air flotation/sand filtration unit and the granular activated carbon units is collected and sent back to the geotubes. This accounts for the difference between the WTP influent and effluent flows. Table 3 summarizes dredge flow and treatment plant flow.

Table 3 - Treatment Plant Operation

Day	Dredge Flow MGD	WTP Influent Flow MGD	WTP Effluent Flow MGD	Krofta Influent TSS mg/L	Krofta Effluent TSS mg/L	GAC Effluent TSS mg/L
10/04/2004	0.40	0.79	0.65	20	30	15
10/05/2004	-	-	-	-	-	-
10/06/2004	0.99	0.30	0.17	25	10	5
10/07/2004	1.21	1.37	1.06	30	10	15
10/08/2004	0.64	0.66	0.56	40	10	15
Totals	**3.24**	**3.12**	**2.43**			

The GAC effluent TSS is monitored using grab samples. While the TSS numbers have been decreasing we will continue to adjust and fine tune the plant operation to reduce the TSS further in the GAC effluent. We are currently testing different polymers in the Krofta unit to try to reduce the TSS going into the GAC units. We are also modifying the backwash piping of the GAC backwash system this week to allow for a more vigorous backwash.

Water treatment plant effluent is monitored by Foth & Van dyke under their environmental monitoring contract.

Upcoming Week of October 11, 2004:

We have completed dredging Area VIII of Deposit A and relocated the dredge to revised Area VIII of Deposit A. This area is near the southwest corner of Deposit A. This Area was selected for the lighter nature of the soft sediment and that fact that it is heavily vegetated.

We will be dredging Area VIII to completion by mid-week. We will then relocate to POG 2 and begin dredging late in the week.

LFR OU1 2004 RA Operation Status Report October 15, 2004

PREPARED FOR: Bill Hartman, GW Partners
Ben Hung, WDNR
Jim Hahnenburg, USEPA
Boldt Oversight Team

PREPARED BY: Sherman Laviolette

DATE: October 18, 2004

This report covers the dredging, geotube de-watering and water treatment plant operations from October 11 to October 15, 2004. During this period we were completing the hydraulic dredging be in Subsection VIII of Deposit A. All sediment and flow from the hydraulic dredge have been treated in geotubes and water treatment plant

General Status:

Dredging during the period was planned to be in two shifts of 8 hours each or a total of 16 hours per day.

Dredging Status:

Dredging was finished in Subsection VIII of Deposit A at 8:00 PM, October 13th. Preliminary survey results indicated a few areas were higher than design elevation due to the elevation of virgin clay was higher than the design elevation. Sweeping of those areas began to eliminate any remaining soft sediment. Sweeping was completed 11 AM on October 14th. Moving the dredge to POG 2 began and was completed on October 25th to begin dredging on October 18th.

Table 1 - Dredge Performance

Day	Dredger % Uptime	Hourly Sq. Ft.	Overdredge Ft.	Insitu Yds Removed	Actual Hours Dredged	Overall Project Uptime
10/11/2004	100%	741	0.48	432	11.5	72%
10/12/2004	69%	982	0.4	272	6.75	42%
10/13/2004	100%	832	0.57	301	14	88%
10/14/2004	100%	NA	NA	NA	4	100%
Period Averages	**92.2%**	**851**	**0.48**	**1,005**		**75.4%**

Project Averages	**92.9%**	**650**	**0.46**	**74.2%**

Previous Yards	**8,118**
Total Yards	**9,123**

The overall project uptime refers to the downtimes caused by both the dredger and the geotube/treatment operations.

Geotube De-watering Operation:

Currently, there are twenty-four full size Geotubes and 2 tubelets deployed on the pad. The tubes numbers beginning with B indicates those on the second layer. The table below summarizes the contents of each tube, as of October 15th. Please note that the tube volumes and % solids include the free water at the top of the tube during sampling.

Table 2 - Geotube Summary

Tube	Size	Contents	Status	Volume cyds	% Solids	Date of % Solids
1	60 ft X 60 ft	D, E	Inactive	224	56.8%	11-Oct
2	60 ft X 80 ft	D, E, A	Inactive	367	46.2%	18-Oct
3	60 ft X 145 ft	D, E, A	Topping Off	890	46.4%	18-Oct
4	60 ft X 145 ft	D, E, A	Inactive	809	59.5%	01-Oct
5	60 ft X 145 ft	D, E, A	Topping Off	843	41.1%	11-Oct
6	60 ft X 145 ft	A	Inactive	878	71.4%	11-Oct
7	60 ft X 145 ft	A	Inactive	798	32.3%	11-Oct
8	60 ft X 80 ft	D, E	Inactive	377	48.2%	11-Oct
9	60 ft X 145 ft	D, E	Inactive	619	46.6%	11-Oct
10	60 ft X 145 ft	D, E	Inactive	587	61.8%	11-Oct
11	60 ft X 145 ft	D, E, A4,A8	Inactive	877	40.7%	11-Oct
12	60 ft X 145 ft	A-4,A-8	Inactive	836	72.3%	11-Oct
13	60 ft X 145 ft	A-4,A-8	Inactive	801	74.6%	11-Oct
14	60 ft X 145 ft	A-4,A-8	Inactive	693	73.8%	04-Oct
D1	60 ft X 175 ft	A-8	Active	818	32.2%	11-Oct
D2	60 ft X 116 ft	A-8	Active	715	32.2%	18-Oct
D3	60 ft X 200 ft	A-8	Active	800	30.5%	18-Oct
B1	60 ft X 175 ft	A-8	Active	539	20.8%	18-Oct
B2	60 ft X 130 ft	A-8	Active	404	30.6%	18-Oct
B3	60 ft X 130 ft	A-8	Active	404	24.6%	18-Oct
B4	60 ft X 130 ft	A-8	Active	472	26.4%	18-Oct
B5	60 ft X 130 ft	A-8	Active	Pending	Nominal	18-Oct
B6	60 ft X 130 ft	A-8	Active	Pending	Nominal	18-Oct
15	60 ft X 30 ft	A-8	Active	Pending	Nominal	18-Oct
Total				**13751**		
Total Insitu Yards				**9123**		

Bulk Factor **1.51**

The bulk factor for the insitu volume versus the tube volume is 1.51. This includes free water in the tubes.

It should be noted that the sampling technique does result is a bias toward lower % solids in the older tubes. As sediment cores are taken at the same location water tends to accumulate there. Once the tube is determined to be permanently inactive, cuts will be made in the top of the tubes to get more representative samples.

Water Treatment Plant Operation:

The water treatment plant has not been operated continuously. The gravel Geotube dewatering pad offers enough water storage to allow for intermittent treatment operation. The intermittent operation of the treatment plant makes daily comparisons of plant flow to the dredge slurry flow difficult. However, flow totals offer a better comparison.

Backwash from both the dissolved air flotation/sand filtration unit and the granular activated carbon units is collected and sent back to the geotubes. This accounts for the difference between the WTP influent and effluent flows. Table 3 summarizes dredge flow and treatment plant flow.

Table 3 - Treatment Plant Operation

Day	Dredge Flow MGD	WTP Influent Flow MGD	WTP Effluent Flow MGD	Krofta Influent TSS mg/L	Krofta Effluent TSS mg/L	GAC Effluent TSS mg/L
10/11/2004	0.68	1.04	0.76	38.5	<2.5	3.75
10/12/2004	0.41	0.29	0.22	45	3	6.25
10/13/2004	0.91	0.69	0.47	20	5	3.75
10/14/2004	0.16	0.27	0.27	<20	40	<20
Totals	**2.17**	**2.30**	**1.72**			
Average	**0.54**	**0.57**	**0.43**	**34.50**	**15.83**	**4.58**

The GAC effluent TSS is monitored using grab samples. While the TSS numbers have been decreasing we will continue to adjust and fine tune the plant operation to reduce the TSS further in the GAC effluent. We are currently testing different polymers in the Krofta unit to try to reduce the TSS going into the GAC units. We are also modifying the backwash piping of the GAC backwash system this week to allow for a more vigorous backwash.

Water treatment plant effluent is monitored by Foth & Van dyke under their environmental monitoring contract.

Upcoming Week of October 18, 2004:

We will begin dredging POG 2 on Monday, October 18th. Geotubes will be placed to fill areas of the gravel pad and will continue to be stacked. Two small tubelets will be used to test the chemistry for dewatering POG 2 sediments.

The water treatment plant modifications have been made to allow for more vigorous backwash of the Granular Activated Carbon. The GAC will be backwashed using these modifications.

LFR OU1 2004 RA Operation Status Report October 22, 2004

PREPARED FOR: Bill Hartman, GW Partners
Ben Hung, WDNR
Jim Hahnenburg, USEPA
Boldt Oversight Team

PREPARED BY: Sherman Laviolette

DATE: October 25, 2004

This report covers the dredging, geotube de-watering and water treatment plant operations from October 18 to October 22, 2004. During this period we were completing the hydraulic dredging began and continued all week in POG 2. All sediment and flow from the hydraulic dredge have been treated in geotubes and water treatment plant

General Status:

Dredging during the period was planned to be in two shifts of 8 hours each or a total of 16 hours per day.

Dredging Status:

Dredging began in POG 2 in the navigation channel, near the lock gate. The area is small and congestion due to the discharge pipe makes it impossible to maneuver the survey boat. There has been no confirmatory survey during this period due the confined area. All figures below are from the dredge positioning computer.

Table 1 - Dredge Performance

Day	Dredger % Uptime	Hourly Sq. Ft.	Overdredge Ft.	Insitu Yds Removed	Actual Hours Dredged	Overall Project Uptime
10/18/2004	100%	489.2	NA	545	15.75	98%
10/19/2004	87%	480	NA	389	11.872	74%
10/20/2004	81%	599	NA	399	11.25	70%
10/21/2004	73%	380	NA	572	11.68	73%
10/22/2004	98%	566	NA	868	10.5	66%
Period Averages	**87.7%**	**502.84**	**NA**	**2773**		**76.3%**

Project Averages	**91.9%**	**620.5**	**NA**	**73.9%**
		Previous Yards	9123	
		Total Yards	**11,896**	

The over-dredge data is not applicable this `week because the post dredge survey could not be done. In addition there are areas in POG 2 that the cutterhead could not attain the planned depth because a solid bottom of rocks and clay was found above the target elevation.

Geotube De-watering Operation:

Currently, there are twenty-four full size Geotubes and 2 tubelets deployed on the pad. The tubes numbers beginning with B indicates those on the second layer. The table below summarizes the contents of each tube, as of October 15th. Please note that the tube volumes and % solids include the free water at the top of the tube during sampling.

Table 2 - Geotube Summary

Tube	Size	Contents	Status	Volume cyds	% Solids	Date of % Solids
1	60 ft X 60 ft	D, E	Inactive	224	56.8%	11-Oct
2	60 ft X 80 ft	D, E, A	Inactive	367	46.2%	18-Oct
3	60 ft X 145 ft	D, E, A	Topping Off	890	46.4%	18-Oct
4	60 ft X 145 ft	D, E, A	Inactive	809	59.5%	01-Oct
5	60 ft X 145 ft	D, E, A	Topping Off	843	41.1%	11-Oct
6	60 ft X 145 ft	A	Inactive	878	71.4%	11-Oct
7	60 ft X 145 ft	A	Inactive	798	32.3%	11-Oct
8	60 ft X 80 ft	D, E	Inactive	377	48.2%	11-Oct
9	60 ft X 145 ft	D, E	Inactive	619	46.6%	11-Oct
10	60 ft X 145 ft	D, E	Inactive	587	61.8%	11-Oct
11	60 ft X 145 ft	D, E, A4,A8	Inactive	877	40.7%	11-Oct
12	60 ft X 145 ft	A-4,A-8	Inactive	836	72.3%	11-Oct
13	60 ft X 145 ft	A-4,A-8	Inactive	801	74.6%	11-Oct
14	60 ft X 145 ft	A-4,A-8	Inactive	693	73.8%	04-Oct
D1	60 ft X 175 ft	A-8	Active	818	32.2%	11-Oct
D2	60 ft X 116 ft	A-8	Active	715	32.2%	18-Oct
D3	60 ft X 200 ft	A-8	Active	800	30.5%	18-Oct
B1	60 ft X 175 ft	A-8	Active	539	20.8%	18-Oct
B2	60 ft X 130 ft	A-8	Active	404	30.6%	18-Oct
B3	60 ft X 130 ft	A-8	Active	404	24.6%	18-Oct
B4	60 ft X 130 ft	A-8	Active	472	26.4%	18-Oct
B5	60 ft X 130 ft	A-8	Active	Pending	Nominal	18-Oct
B6	60 ft X 130 ft	A-8	Active	Pending	Nominal	18-Oct
15	60 ft X 30 ft	A-8	Active	Pending	Nominal	18-Oct
Total				**13751**		
Total Insitu Yards				**9123**		

Bulk Factor **1.51**

The bulk factor for the insitu volume versus the tube volume is 1.51. This includes free water in the tubes.

It should be noted that the sampling technique does result is a bias toward lower % solids in the older tubes. As sediment cores are taken at the same location water tends to accumulate there. Once the tube is determined to be permanently inactive, cuts will be made in the top of the tubes to get more representative samples.

Water Treatment Plant Operation:

The water treatment plant has not been operated continuously. The gravel Geotube dewatering pad offers enough water storage to allow for intermittent treatment operation. The intermittent operation of the treatment plant makes daily comparisons of plant flow to the dredge slurry flow difficult. However, flow totals offer a better comparison.

Backwash from both the dissolved air flotation/sand filtration unit and the granular activated carbon units is collected and sent back to the geotubes. This accounts for the difference between the WTP influent and effluent flows. Table 3 summarizes dredge flow and treatment plant flow.

Table 3 - Treatment Plant Operation

Day	Dredge Flow MGD	WTP Influent Flow MGD	WTP Effluent Flow MGD	Krofta Influent TSS mg/L	Krofta Effluent TSS mg/L	GAC Effluent TSS mg/L
10/11/2004	0.68	1.04	0.76	38.5	<2.5	3.75
10/12/2004	0.41	0.29	0.22	45	3	6.25
10/13/2004	0.91	0.69	0.47	20	5	3.75
10/14/2004	0.16	0.27	0.27	<20	40	<20
Totals	**2.17**	**2.30**	**1.72**			
Average	**0.54**	**0.57**	**0.43**	**34.50**	**15.83**	**4.58**

The GAC effluent TSS is monitored using grab samples. While the TSS numbers have been decreasing we will continue to adjust and fine tune the plant operation to reduce the TSS further in the GAC effluent. We are currently testing different polymers in the Krofta unit to try to reduce the TSS going into the GAC units. We are also modifying the backwash piping of the GAC backwash system this week to allow for a more vigorous backwash.

Water treatment plant effluent is monitored by Foth & Van dyke under their environmental monitoring contract.

Upcoming Week of October 18, 2004:

We will begin dredging POG 2 on Monday, October 18th. Geotubes will be placed to fill areas of the gravel pad and will continue to be stacked. Two small tubelets will be used to test the chemistry for dewatering POG 2 sediments.

The water treatment plant modifications have been made to allow for more vigorous backwash of the Granular Activated Carbon. The GAC will be backwashed using these modifications.

LFR OU1 2004 RA Operation Status Report October 29, 2004

PREPARED FOR: Bill Hartman, GW Partners
Ben Hung, WDNR
Jim Hahnenburg, USEPA
Boldt Oversight Team

PREPARED BY: Sherman LaViolette

DATE: November 1, 2004

This report covers the dredging, geotube de-watering and water treatment plant operations from October 25 to October 29, 2004. During this period we were hydraulically dredging in deposit POG2 all week. All sediment and flow from the hydraulic dredge have been treated in geotubes and water treatment plant

General Status:

Dredging during the period was planned to be in two shifts of 8 hours each or a total of 16 hours per day.

Dredging Status:

Dredging continued in POG2, the navigation channel, north of the SCA water intake. The area is small and congestion due to the discharge pipe makes it impossible to maneuver the survey boat. Only one confirmatory survey was completed during this period due the confined area. All figures below combine the survey results with the dredge positioning computer.

Table 1 - Dredge Performance

Day	Dredger % Uptime	Hourly Sq. Ft.	Overdredge Ft.	Insitu Yds Removed	Actual Hours Dredged	Overall Project Uptime
10/25/2004	98%	579	NA	651	7.486	62%
10/26/2004	97%	632	NA	559	7.402	62%
10/27/2004	98%	519	NA	584	11.736	98%
10/28/2004	100%	627	NA	489	10.5	88%
10/29/2004	100%	641	NA	673	7.75	65%
Period Averages	**98.5%**	**599.60**	**NA**	**2956**		**74.8%**

Project Averages	**93.0%**	**617**	**NA**		**73.9%**

Previous Yards 11896

Total Yards 14,852

The overdredge data is not applicable this `week because there are significant areas in POG 2 that the cutterhead could not attain the planned depth because a solid bottom of rocks and clay was found above the target elevation.

Geotube De-watering Operation:

Currently, we are stretching the volume limits of the geotube pad. Originally designed for limited production in 2004, we now have thirty-five full size Geotubes and 5 tubelets deployed on the pad. Several tubes have completed dewatering and could have been removed weeks ago resulting in more space. The lack of available space has resulted over the past several weeks in project downtime caused by the geotubes needing to dewater and compact prior to stacking. The overall project uptime of 73.9% reflects this situation. In 2005 and beyond, the expanded geotube pad and the ability remove tubes when target dewatering parameters have been met will eliminate tube system downtime.

The table below summarizes the contents of each tube, as of October 29th. The tubes numbers beginning with B indicates those on the second layer. Please note that the tube volumes and % solids include the free water at the top of the tube during sampling.

Table 2 - Geotube Summary

Tube	Size	Contents	Status	Volume cyds	% Solids	Date of % Solids
1	60 ft X 60 ft	D, E	Retired	229	50.1%	13-Oct
2	60 ft X 80 ft	D, E, A-4	Retired	364	49.7%	01-Nov
3	60 ft X 145 ft	D, E, A-4,A-8	Retired	527	51.1%	01-Nov
4	60 ft X 145 ft	D, E, A-4,A-8	Retired	809	59.5%	01-Oct
5	60 ft X 145 ft	D, E, A-4,A-8	Retired	797	47.8%	25-Oct
6	60 ft X 145 ft	A-4,A-8	Retired	786	60.8%	25-Oct
7	60 ft X 145 ft	A-4,A-8	Retired	724	56.2%	01-Nov
8	60 ft X 80 ft	D, E	Retired	377	48.5%	12-Oct
9	60 ft X 145 ft	D, E	Retired	793	57.7%	12-Oct
10	60 ft X 145 ft	D, E	Retired	549	52.2%	12-Oct
11	60 ft X 145 ft	D, E, A4,A8	Retired	681	50.7%	12-Oct
12	60 ft X 145 ft	A-4,A-8	Retired	834	72.3%	11-Oct
13	60 ft X 145 ft	A-4,A-8	Retired	685	74.6%	11-Oct
14	60 ft X 145 ft	A-4,A-8	Retired	602	73.8%	04-Oct
D1	60 ft X 175 ft	A-8, POG2	Inactive	663	55.5%	01-Nov
D2	60 ft X 116 ft	A-8, POG2	Inactive	564	34.7%	01-Nov
D3	60 ft X 200 ft	A-8, POG2	Inactive	941	35.8%	01-Nov
B1	60 ft X 175 ft	A-8, POG2	Inactive	591	35.7%	01-Nov
B2	60 ft X 130 ft	A-8, POG2	Inactive	374	32.5%	01-Nov

B3	60 ft X 130 ft	A-8, POG2	Inactive	328	Pending	01-Nov
B4	60 ft X 130 ft	A-8, POG2	Inactive	348	Pending	01-Nov
B5	60 ft X 130 ft	POG2	Inactive	453	30.4%	01-Nov
B6	60 ft X 130 ft	POG2	Inactive	475	30.7%	01-Nov
15	60 ft X 60 ft	POG2	Inactive	210	Pending	01-Nov
16	60 ft X 60 ft	POG2	Inactive	424	34.4%	01-Nov
17	60 ft X 60 ft	POG2	Inactive	310	Pending	01-Nov
18	60 ft X 176 ft	POG2	Inactive	484	25.5%	01-Nov
19	60 ft X 145 ft	POG2	Inactive	752	26.2%	01-Nov
20	60 ft X 40 ft	POG2	Active	166	Pending	01-Nov
B7	60 ft X 130 ft	POG2	Active	615	27%	01-Nov
B8	60 ft X 101 ft	POG2	Active	262	Pending	01-Nov
B9	60 ft X 130 ft	POG2	Active	Pending	Pending	01-Nov
B10	60 ft X 130 ft	POG2	Active	Pending	Pending	01-Nov
C1	60 ft X 116 ft	POG2	Active	527	28.6%	01-Nov
C2	60 ft X 116 ft	POG3	Active	297	26.7%	01-Nov
	Tubelets			375		
Total				**17916**		
Total Insitu Yards				**14852**		
Bulk Factor				**1.21**		

Per cent solids data that are listed as pending refers to tubes that have physical limitations in acquiring samples or were just beginning to be filled. Data can be acquired after all the tubes are retired next week.

The bulk factor for the insitu volume versus the tube volume is 1.21. This includes free water in the tubes.

In the two weeks we have been in POG2, we have removed 5729 cyds of soft sediment. This compares to 6723 cyds of soft sediment in the previous four week. This increased dredging rate is due to the deep cuts in POG2. This also results in 21 tubes containing some portion of POG2 sediment compared to 14 tubes of other material. This has resulting in filling POG2 tubes very rapidly. It must be remembered that all the tubes containing POG2 material are recently filled, have been stacked upon or are active. As such, none of the POG2 tubes have aged more than one week. We know the sediment is highly organic and will need time to age before proper dewatering determination can be made.

It should be noted that the sampling technique does result is a bias toward lower % solids in the older tubes. As sediment cores are taken at the same location water tends to accumulate there. Once the tube is determined to be permanently inactive, cuts will be made in the top of the tubes to get more representative samples.

Geotube 20 is an experimental tube that has the manufacturer claims can be filled to twice the height of a standard geotube. We began filling October 29th and will monitor tube performance.

Water Treatment Plant Operation:

The water treatment plant has not been operated continuously. The gravel Geotube dewatering pad offers enough water storage to allow for intermittent treatment operation. The intermittent operation of the treatment plant makes daily comparisons of plant flow to the dredge slurry flow difficult. However, flow totals offer a better comparison.

Backwash from both the dissolved air flotation/sand filtration unit and the granular activated carbon units is collected and sent back to the geotubes. This accounts for the difference between the WTP influent and effluent flows. Table 3 summarizes dredge flow and treatment plant flow.

Table 3 - Treatment Plant Operation

Day	Dredge Flow Gal/Day	WTP Influent Flow Gal/Day	WTP Effluent Flow Gal/Day	Krofta Influent TSS mg/L	Krofta Effluent TSS mg/L	GAC Effluent TSS mg/L
10/25/2004	715,498					
10/26/2004	454,299	588,000	330,180	20	5	5
10/27/2004	579,450	361,680	297,420	7.5	10	5
10/28/2004	615,840	756,900	577,320	15	5	5
10/29/2004	335,481	693,420	556,465	17	5	5
Totals	**2,700,568**	**2,400,000**	**1,761,385**			

The plant was not operated on October 25, 2004 due to modifications to the outfall pipe.

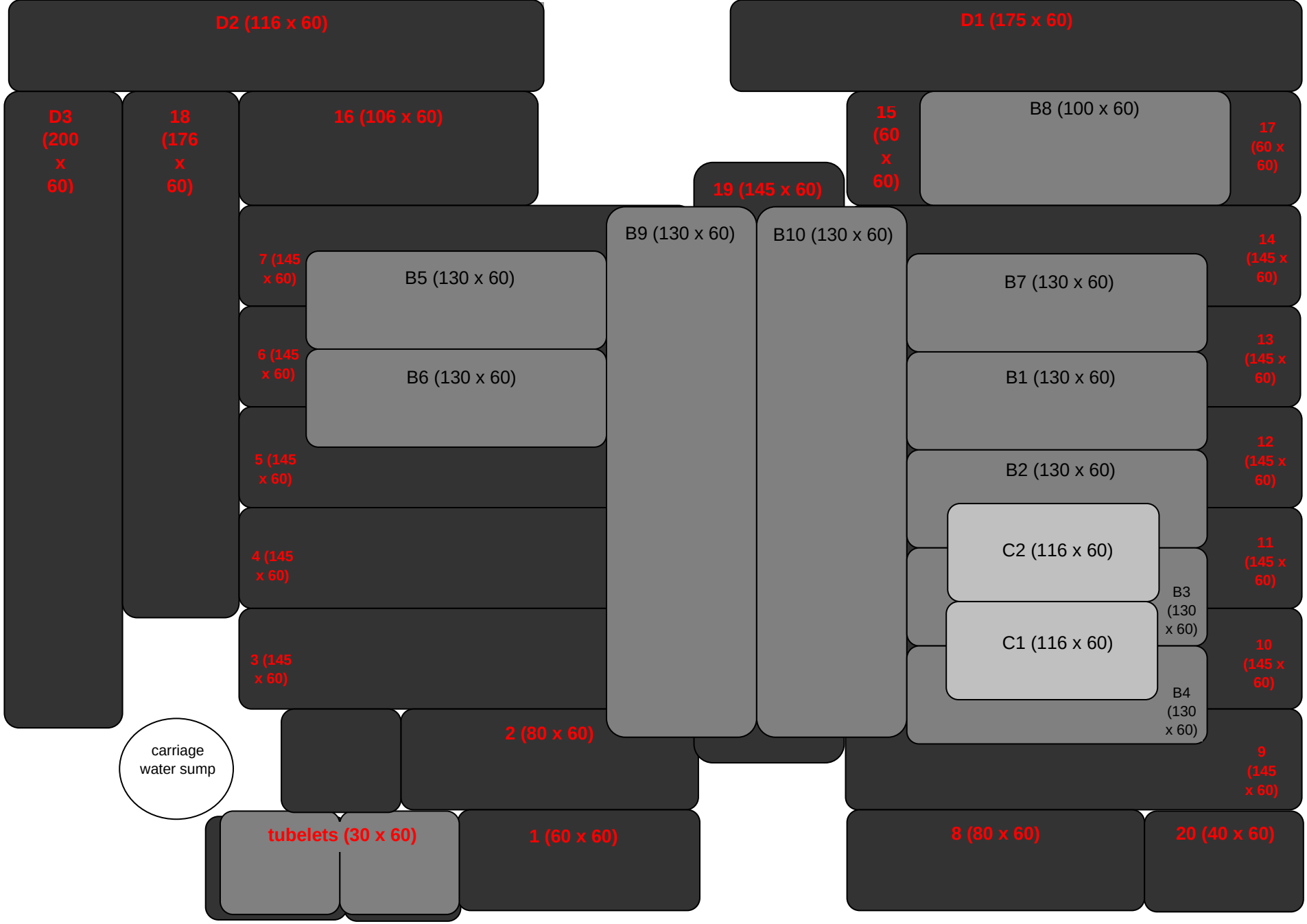
The GAC effluent TSS is monitored using grab samples. We are continuing to adjust and fine tune the plant operation to reduce the TSS further in the GAC effluent. We are currently testing different polymers in the Krofta unit to try to reduce the TSS going into the GAC units. We have modified the backwash piping of the GAC backwash system that allows for a more vigorous backwash. We have determined that the TSS in the final effluent may be residual polymer. Reduction in overall polymer feed of the tubes may not be possible due to the high variability of the sediment entering the tubes. We have performed jar tests that indicate that adding a small amount of Sodium Hypochlorite will result in elimination of the TSS. If TSS continues to be a concern, we will propose adding the Sodium Hypochlorite prior to the GAC to oxidize residual polymer. Any residual chloramines would be removed in the GAC.

TSS data listed are for process control. Water treatment plant effluent parameters for WDNR reporting are monitored by Foth & Van Dyke under their environmental monitoring contract and reported on separately.

Upcoming Week of November 1, 2004:

Dredging of POG2 will continue. The long-term outfall will be installed early in the week. The week of November 1 will be the final week of dredging and geotube dewatering for 2004. The geotubes will continue to be monitored and results will reported.

The sand placement system will be tested prior to Thanksgiving.



Fox River OU1 2004 RA Tube Layout 11/01/04

LFR OU1 2004 RA Operation Status Report November 5, 2004

PREPARED FOR: Bill Hartman, GW Partners
Ben Hung, WDNR
Jim Hahnenburg, USEPA
Boldt Oversight Team

PREPARED BY: Sherman Laviolette

DATE: November 8, 2004

This report covers the dredging, geotube de-watering and water treatment plant operations from November 1 to November 5, 2004. During this period we were hydraulically dredging in deposit POG2 all week. All sediment and flow from the hydraulic dredge have been treated in geotubes and water treatment plant

General Status:

Dredging during the period was planned to be in one shift of 12 hours each day.

Dredging Status:

Dredging continued in POG2, the navigation channel, north of the SCA water intake. The area is small and congestion due to the discharge pipe makes it impossible to maneuver the survey boat. Only one confirmatory survey was completed on November 1 during due the confined area. All figures below combine the survey results with the dredge positioning computer.

Table 1 - Dredge Performance

Day	Dredger % Uptime	Hourly Sq. Ft.	Overdredge Ft.	Insitu Yds Removed	Actual Hours Dredged	Overall Project Uptime
11/01/2004	92%	716	NA	415	8.504	71%
11/02/2004	78%	619	NA	616	8.634	72%
11/03/2004	75%	770	NA	494	8	67%
11/04/2004	88%	774	NA	821	8.5	71%
11/05/2004	93%	688	NA	693	7.1	59%
Period Averages	**85.0%**	**713.40**	**NA**	**3039**		**67.9%**

Project Averages	**91.9%**	**631**	**NA**	**73.7%**
		Previous Yards	14852	
		Total Yards	**17,891**	

The overdredge data is not applicable this `week because there are significant areas in POG 2 that the cutterhead could not attain the planned depth because a solid bottom of rocks and clay was found above the target elevation.

The area dredged in POG2 in not completely finished. The dredging in POG2 is planned to be completed in two passes. The first pass was to cut deep and take the bulk of the sediment. The second pass would cut to the intended grade. The dredge cut completed to date was only the first pass. During this pass we hit rock, timber and clay above the planned final grade. We have not begun the second sweeping cut of the rock and clay bed due to the lateness of the season. In this case, the second cut would have been a sweeping cut. We do not believe that final PCB confirmatory sampling should be completed until a sweep pass is completed in the spring.

Geotube De-watering Operation:

Currently, we are stretching the volume limits of the geotube pad. Originally designed for limited production in 2004, we now have thirty-five full size Geotubes and 5 tubelets deployed on the pad. Several tubes have completed dewatering and could have been removed weeks ago resulting in more space. The lack of available space has resulted over the past several weeks in overall project downtime caused by the geotubes needing to dewater and compact prior to stacking. The overall project uptime of 73.7% reflects this situation. In 2005 and beyond, the expanded geotube pad and the ability remove tubes when target dewatering parameters have been met will eliminate tube system downtime.

The table below summarizes the contents of each tube, as of November 5th. Please note that the tube volumes and % solids include the free water at the top of the tube during sampling.

Table 2 - Geotube Summary

Tube	Size	Contents	Status	Volume cyds	% Solids	Date of % Solids
1	60 ft X 60 ft	D, E	Retired	229	50.1%	13-Oct
2	60 ft X 80 ft	D, E, A-4	Retired	364	64.9%	01-Nov
3	60 ft X 145 ft	D, E, A-4,A-8	Retired	527	51.1%	01-Nov
4	60 ft X 145 ft	D, E, A-4,A-8	Retired	809	59.5%	01-Oct
5	60 ft X 145 ft	D, E, A-4,A-8	Retired	797	47.8%	25-Oct
6	60 ft X 145 ft	A-4,A-8	Retired	786	60.8%	25-Oct
7	60 ft X 145 ft	A-4,A-8	Retired	724	56.2%	01-Nov
8	60 ft X 80 ft	D, E	Retired	377	48.5%	12-Oct
9	60 ft X 145 ft	D, E	Retired	793	57.7%	12-Oct
10	60 ft X 145 ft	D, E	Retired	549	52.2%	12-Oct
11	60 ft X 145 ft	D, E, A4,A8	Retired	681	50.7%	12-Oct
12	60 ft X 145 ft	A-4,A-8	Retired	834	72.3%	11-Oct

13	60 ft X 145 ft	A-4,A-8	Retired	685	74.6%	11-Oct
14	60 ft X 145 ft	A-4,A-8	Retired	602	73.8%	04-Oct
D1	60 ft X 175 ft	A-8, POG2	Inactive	663	50.5%	08-Nov
D2	60 ft X 116 ft	A-8, POG2	Inactive	564	34.7%	08-Nov
D3	60 ft X 200 ft	A-8, POG2	Inactive	941	33.4%	01-Nov
B1	60 ft X 175 ft	A-8, POG2	Inactive	591	35.7%	01-Nov
B2	60 ft X 130 ft	A-8, POG2	Inactive	374	38.2%	08-Nov
B3	60 ft X 130 ft	A-8, POG2	Inactive	328	44.2%	25-Oct
B4	60 ft X 130 ft	A-8, POG2	Inactive	348	34.2%	01-Nov
B5	60 ft X 130 ft	POG2	Inactive	453	29.2%	01-Nov
B6	60 ft X 130 ft	POG2	Inactive	701	42.2%	08-Nov
15	60 ft X 60 ft	POG2	Inactive	210	34.7%	08-Nov
16	60 ft X 60 ft	POG2	Inactive	424	34.4%	01-Nov
17	60 ft X 60 ft	POG2	Inactive	310	24.2%	24-Oct
18	60 ft X 176 ft	POG2	Inactive	484	25.5%	01-Nov
19	60 ft X 145 ft	POG2	Inactive	752	26.2%	01-Nov
20	60 ft X 40 ft	POG2	Inactive	290	Pending	01-Nov
B7	60 ft X 130 ft	POG2	Inactive	674	27.3%	01-Nov
B8	60 ft X 101 ft	POG2	Inactive	262	Pending	01-Nov
B9	60 ft X 130 ft	POG2	Inactive	539	Pending	01-Nov
B10	60 ft X 130 ft	POG2	Inactive	539	Pending	01-Nov
B11	60 ft X 145 ft	POG2	Active	797	31.4%	08-Nov
C1	60 ft X 116 ft	POG2	Inactive	541	27.8%	08-Nov
C2	60 ft X 116 ft	POG2	Inactive	541	26.7%	01-Nov
C3	60 ft X 116 ft	POG2	Active	722	29.5%	08-Nov
C4	60 ft X 116 ft	POG2	Active	722	30.1%	08-Nov
E1	60 ft X 106ft	POG2	Active	660	30.8%	08-Nov

Tubelets	350
Total	**22537**
Total Insitu Yards	**17891**
Bulk Factor	**1.26**

Per cent solids data that are listed as pending refers to tubes that have physical limitations in acquiring samples or were just beginning to be filled. Data can be acquired after all the tubes are retired next week.

The bulk factor for the insitu volume versus the tube volume is 1.26. This includes free water in the tubes.

In the three weeks we have been in POG2, we have removed 8,768 cyds of soft sediment. This compares to 6723 cyds of soft sediment in the previous four week. This increased dredging rate is due to the deep cuts in POG2. This also results in 21 tubes containing some portion of POG2 sediment compared to 14 tubes of other material. This has resulting in filling POG2 tubes very rapidly. It must be remembered that all the tubes containing POG2 material are recently filled, have been stacked upon or are active. As such, none of the POG2 tubes have aged more than two weeks.

We know the sediment is highly organic and will need time to age before proper dewatering determination can be made.

It should be noted that the sampling technique does result is a bias toward lower % solids in the older tubes. As sediment cores are taken at the same location water tends to accumulate there. Once the tube is determined to be permanently inactive, cuts will be made in the top of the tubes to get more representative samples.

Geotube 20 is an experimental tube that has the manufacturer claims can be filled to twice the height of a standard geotube. We began filling October 29th and will monitor tube performance.

Water Treatment Plant Operation:

The water treatment plant has not been operated continuously. The gravel Geotube dewatering pad offers enough water storage to allow for intermittent treatment operation. The intermittent operation of the treatment plant makes daily comparisons of plant flow to the dredge slurry flow difficult. However, flow totals offer a better comparison.

Backwash from both the dissolved air flotation/sand filtration unit and the granular activated carbon units is collected and sent back to the geotubes. This accounts for the difference between the WTP influent and effluent flows. Table 3 summarizes dredge flow and treatment plant flow.

Table 3 - Treatment Plant Operation

Day	Dredge Flow Gal/Day	WTP Influent Flow Gal/Day	WTP Effluent Flow Gal/Day	Krofta Influent TSS mg/L	Krofta Effluent TSS mg/L	GAC Effluent TSS mg/L
11/01/2004	526,855					
11/02/2004	609,208	868,551	724,874	20	10	5
11/03/2004	576,963	623,974	481,265	20	10	12.5
11/04/2004	605,962	177,345	124,682	20	10	7.5
11/05/2004	413,416	411,561	284,194	20	10	20
Totals	**2,732,404**	**2,081,431**	**1,615,015**			

The plant was not operated on November 1, 2004 due to modifications to the outfall pipe.

The GAC effluent TSS is monitored using grab samples. We are continuing to adjust and fine tune the plant operation to reduce the TSS further in the GAC effluent. We are currently testing different polymers in the Krofta unit to try to reduce the TSS going into the GAC units. We have modified the backwash piping of the GAC backwash system that allows for a more vigorous backwash. We have determined that the TSS in the final effluent may be residual polymer. Reduction in overall polymer feed of the tubes may not be possible due to the high variability of the sediment entering the tubes. We have performed jar tests that indicate that adding a small amount of sodium hypochlorite or bentonite clay will result in elimination of the TSS. We have also experimented in jar tests with additives to remove the excess polymer. Residual polymer and TSS continues to be a concern. We will study the following solutions:

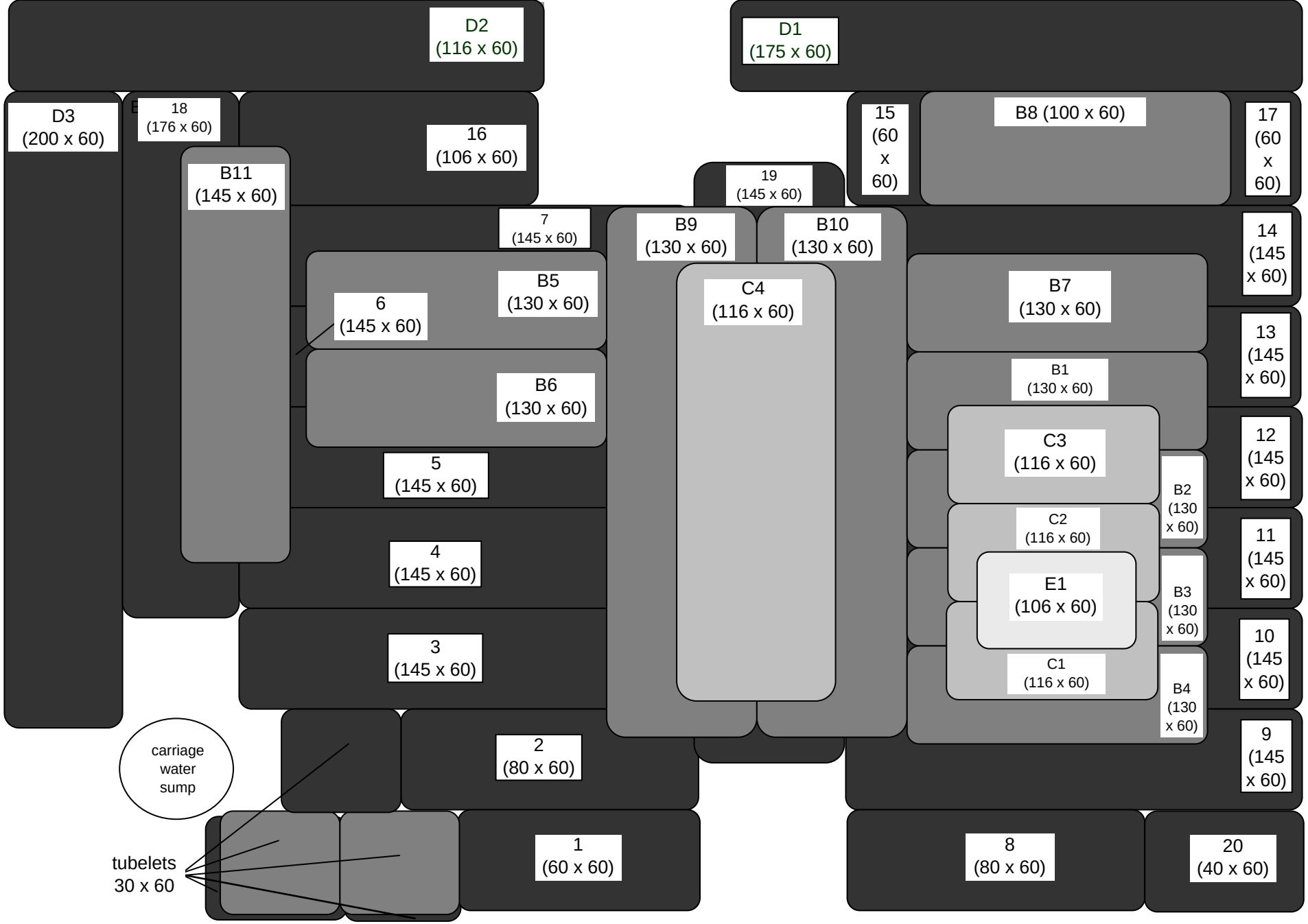
1. Monitor the bag weep, Krofta and plant effluent using a charge test for excess polymer and reduce polymer dosage accordingly.
2. Install a recycle for the tube weep water from the dewatering pad back to the geotubes. This will allow better control of the sediment concentration entering the geotubes and more accurate control of the polymer.
3. Test other polymers for geotube dewatering that may not carry through the weep water as easily.
4. Test additives such as sodium hypochlorite, bentonite clay and other chemicals to remove or neutralize the polymer within the water treatment plant.
5. Consider using bag filters as was done in 56/57.

TSS data listed are for process control. Water treatment plant effluent parameters for WDNR reporting are monitored by Foth & Van Dyke under their environmental monitoring contract and reported on separately.

Upcoming Week of November 8, 2004:

Dredging of POG2 will continued on Monday November 8th until final shutdown in the afternoon. All feeding of tubes ceased for the season. The treatment plant will be run on Tuesday to dewater the geotube pad. The sand placement over the long-term outfall trench will continue.

The sand placement system will be started and tested the week of November 8, 2004.



Fox River OU1 2004 Remedial Action

11/08/04

LFR OU1 2004 RA Operation Status Report November 12, 2004

PREPARED FOR: Bill Hartman, GW Partners
Ben Hung, WDNR
Jim Hahnenburg, USEPA
Boldt Oversight Team

PREPARED BY: Sherman Laviolette

DATE: November 15, 2004

This report covers the dredging, sand placement, geotube de-watering and water treatment plant operations from November 8 to November 12, 2004. During this period we hydraulically dredged in deposit POG2 for the last day on Monday, November 8th. All sediment and flow from the hydraulic dredge have been treated in geotubes and water treatment plant. On Tuesday, we relocated the dredge to the shore of the marine access. And set up the sand placement barges at the target area in Deposit E. Sand placement began at 10:30 AM Wednesday November 10th.

General Status:

Dredging during the period was planned to be in one 12 hour day. Sand placement during this period was scheduled for 10 hour days.

Dredging and Sand placement Status:

Dredging continued for one day in POG2, the navigation channel, north of the SCA water intake. The sand placement began on November 10th. All figures below combine the survey results with the dredge positioning computer.

Table 1 - Dredge and Sand Placement Performance

Dredging Summary

Day	Dredger % Uptime	Hourly Sq. Ft.	Insitu Yds Removed	Actual Hours Worked	Overall Project Uptime
11/08/2004	91%	692	937	8.7	73%
Period Averages	**91.0%**	**692**	**937**	**8.7**	**73.0%**
Project Averages	**91.8%**	**631**			**73.7%**

Previous Yards	15789
Total Yards	**16,726**

Sand Placement Summary

Day	Sand Placement % Uptime	Sand Tons Placed	Actual Hours Operated
11/10/2004	100%	261	10.0
11/11/2004	99%	360	9.9
11/12/2004	95%	289	9.5

The overdredge data is not applicable this `week because there are significant areas in POG 2 that the cutterhead could not attain the planned depth because a solid bottom of rocks and clay was found above the target elevation.

The area dredged in POG2 in not completely finished. The dredging in POG2 is planned to be completed in two passes. The first pass was to cut deep and take the bulk of the sediment. The second pass would cut to the intended grade. The dredge cut completed to date was only the first pass. During this pass we hit rock, timber and clay above the planned final grade. We have not begun the second sweeping cut of the rock and clay bed due to the lateness of the season. In this case, the second cut would have been a sweeping cut. We do not believe that final PCB confirmatory sampling should be completed until a sweep pass is completed in the spring.

The sand placement operation began with sand that was 13% fine material and experienced some turbidity. We switched to cleaner sand on Thursday and the turbidity was reduced to the point of not being noticeable.

Geotube De-watering Operation:

The dredging is complete for the 2004 season. The geotubes will be sampled weekly. The sampling is a three day process and the complete data will be available on Thursday each week.

The table below summarizes the contents of each tube, as of November 15th. Tube volumes will be provided later.

Table 2 - Geotube Summary

Geotube Number	Diameter (ft.) x Length (ft.)	Date placed in service	Contains Deposit(s)	Current Status	Date taken out of Service	Percent Solids (sample date)	Volume, yd^3
1	60 x 60	9/9/04	D, E	Retired	09/12/2004	68.7% (11/15/04)	
2	60 x 80	8/31/04	D, E, A-4	Retired	09/16/2004	54.5% (11/15/04)	
3	60 x 145	9/8/04	D, E, A-4, A-8	Retired	10/11/2004	50.2% (11/15/04)	
4	60 x 145	9/10/04	D, E, A-4, A-8	Retired	10/08/2004		
5	60 x 145	9/10/04	D, E, A-4, A-8	Retired	10/11/2004	47.5% (11/15/04)	
6	60 x 145	9/21/04	A-4, A-8	Retired	10/13/2004	77% (11/15/04)	

7	60 x 145	10/1/04	A-4, A-8	Retired	10/11/2004	43.8% (11/15/04)
8	60 x 80	9/1/04	D, E	Retired	09/12/2004	
9	60 x 145	9/1/04	D, E	Retired	09/12/2004	
10	60 x 145	9/2/04	D, E	Retired	09/12/2004	
11	60 x 145	9/7/04	D, E, A-4, A-8	Retired	10/11/2004	
12	60 x 145	9/12/04	A-4, A-8	Retired	10/06/2004	
13	60 x 145	9/16/04	A-4, A-8	Retired	10/06/2004	
14	60 x 145	9/28/04	A-4, A-8	Retired	10/08/2004	
15	60 x 60	10/18/04	POG2	Retired	10/21/2004	45.5% (11/15/04)
16	60 x 106	10/19/04	POG2	Retired	10/22/2004	41% (11/15/04)
17	60 x 60	10/21/04	POG2	Retired	10/22/2004	
18	60 x 176	10/21/04	POG2	Retired	10/28/2004	28.4% (11/15/04)
19	60 x 145	10/28/04	POG2	Retired	10/29/2004	
20	60 x 40	10/19/04	POG2	Retired	11/05/2004	
B1	60 x 130	10/11/04	A-8, POG2	Retired	10/22/2004	
B2	60 x 130	10/12/04	A-8, POG2	Retired	10/22/2004	
B3	60 x 130	10/12/04	A-8, POG2	Retired	10/22/2004	
B4	60 x 130	10/12/04	A-8, POG2	Retired	10/22/2004	
B5	60 x 130	10/18/04	POG2	Retired	11/08/2004	32.8% (11/15/04)
B6	60 x 130	10/18/04	POG2	Retired	11/08/2004	
B7	60 x 130	10/25/04	POG2	Retired	10/26/2004	
B8	60 x 101	10/25/04	POG2	Retired	10/28/2004	
B9	60 x 130	11/1/04	POG2	Retired	11/04/2004	
B10	60 x 130	11/1/04	POG2	Retired	11/04/2004	
B11	60 x 145	11/4/04	POG2	Retired	11/08/2004	31.2% (11/15/04)
C1	60 x 116	10/26/04	POG2	Retired	10/29/2004	
C2	60 x 116	10/27/04	POG2	Retired	10/29/2004	
C3	60 x 116	11/3/04	POG2	Retired	11/08/2004	
C4	60 x 116	11/5/04	POG2	Retired	11/08/2004	30.9% (11/15/04)
D1	60 x 175	10/4/04	A-8, POG2	Retired	10/11/2004	
D2	60 x 116	10/6/04	A-8, POG2	Retired	10/22/2004	
D3	60 x 200	10/8/04	A-8, POG2	Retired	10/22/2004	
E1	60 x 106	11/2/04	POG2	Retired	11/08/2004	
tubelet	60 x 30	---	POG2	Retired	---	64.5% (11/15/04)
AA tubelet	60 x 30	---	POG2	Retired	---	
tubelet	60 x 30	---	POG2	Retired	---	
tubelet	60 x 30	---	A	Retired	---	
tubelet	60 x 30	---	A	Retired	---	
						Total yardage

Water Treatment Plant Operation:

The water treatment plant was operated was only operated a few days after dredging.

Day	Dredge Flow Gal/Day	WTP Influent Flow Gal/Day	WTP Effluent Flow Gal/Day	Krofta Influent TSS mg/L	Krofta Effluent TSS mg/L	GAC Effluent TSS mg/L
11/08/2004	526,855	546,410	413,605	30	10	5
11/09/2004	-	379,990	273,225	15	10	10

11/10/2004	-	28,462	12,464	0	0	0
11/11/2004	-	-	-	0	0	0
11/12/2004	-	-	-	0	0	0
Totals	**526,855**	**954,862**	**699,294**			

TSS data listed are for process control. Water treatment plant effluent parameters for WDNR reporting are monitored by Foth & Van Dyke under their environmental monitoring contract and reported on separately.

Upcoming Week of November 15, 2004:

The sand placement will continue.

LFR OU1 2004 RA Operation Status Report November 19, 2004

PREPARED FOR: Bill Hartman, GW Partners
Ben Hung, WDNR
Jim Hahnenburg, USEPA
Boldt Oversight Team

PREPARED BY: Sherman LaViolette

DATE: November 22, 2004

This report covers the sand placement, geotube de-watering and water treatment plant operations from November 15 to November 19, 2004. During this period we placed sand in Deposit E, the geotubes continued to dewater and the treatment plant was operated for a brief period.

General Status:

Sand placement during this period was scheduled for four, 10 hour days.

Sand placement Status:

All figures below are from the dredge production computer.

Table 1 - Sand Placement Performance

Day	Sand Placement % Uptime	Sand Tons Placed	Actual Hours Operated
11/15/2004	100%	366	10.0
11/16/2004	97%	384	9.7
11/17/2004	100%	384	10.0
11/18/2004	100%	353	10.0

Geotube De-watering Operation:

The dredging is complete for the 2004 season. The geotubes will be sampled weekly. The sampling is a three day process and the complete data will be available on Thursday each week.

The table below summarizes the contents of each tube, as of November 18th. Tube volumes will be provided later.

Table 2 - Geotube Summary

Geotube Number	Diameter (ft.) x Length (ft.)	Date placed in service	Contains Deposit(s)	Current Status	Date taken out of Service	Nov. 15-17 Percent Solids (sample date)	Nov. 15-17 Volume, yd^3
1	60 x 60	9/9/04	D, E	Retired	09/12/04	68.7	218
2	60 x 80	8/31/04	D, E, A-4	Retired	09/16/04	56.5	335
3	60 x 145	9/8/04	D, E, A-4, A-8	Retired	10/11/04	49.1	481
4	60 x 145	9/10/04	D, E, A-4, A-8	Retired	10/08/04		790 (est.)
5	60 x 145	9/10/04	D, E, A-4, A-8	Retired	10/11/04	47.5	793
6	60 x 145	9/21/04	A-4, A-8	Retired	10/13/04	78.0	763
7	60 x 145	10/1/04	A-4, A-8	Retired	10/11/04	43.8	625
8	60 x 80	9/1/04	D, E	Retired	09/12/04	49.0	358
9	60 x 145	9/1/04	D, E	Retired	09/12/04	52.0	607
10	60 x 145	9/2/04	D, E	Retired	09/12/04	49.0	472
11	60 x 145	9/7/04	D, E, A-4, A-8	Retired	10/11/04	48.3	559
12	60 x 145	9/12/04	A-4, A-8	Retired	10/06/04	78.7	635
13	60 x 145	9/16/04	A-4, A-8	Retired	10/06/04	83.4	557
14	60 x 145	9/28/04	A-4, A-8	Retired	10/08/04	68.2	602
15	60 x 60	10/18/04	POG2	Retired	10/21/04	45.5	154
16	60 x 106	10/19/04	POG2	Retired	10/22/04	41.0	325
17	60 x 60	10/21/04	POG2	Retired	10/22/04	27.9	114
18	60 x 176	10/21/04	POG2	Retired	10/28/04	28.4	724
19	60 x 145	10/28/04	POG2	Retired	10/29/04	27.7	482
20	60 x 40	10/19/04	POG2	Retired	11/05/04	30.4	241
B1	60 x 130	10/11/04	A-8, POG2	Retired	10/22/04	50.4	375
B2	60 x 130	10/12/04	A-8, POG2	Retired	10/22/04	36.0	536
B3	60 x 130	10/12/04	A-8, POG2	Retired	10/22/04	35.5	380
B4	60 x 130	10/12/04	A-8, POG2	Retired	10/22/04	32.7	442
B5	60 x 130	10/18/04	POG2	Retired	11/08/04	26.7	401
B6	60 x 130	10/18/04	POG2	Retired	11/08/04	25.8	299
B7	60 x 130	10/25/04	POG2	Retired	10/26/04	27.8	455
B9	60 x 130	11/1/04	POG2	Retired	11/04/04	29.7	436
B10	60 x 130	11/1/04	POG2	Retired	11/04/04	34.6	626
B11	60 x 145	11/4/04	POG2	Retired	11/08/04	30.6	529
C1	60 x 116	10/26/04	POG2	Retired	10/29/04	20.5	278
C2	60 x 116	10/27/04	POG2	Retired	10/29/04	28.6	526
C3	60 x 116	11/3/04	POG2	Retired	11/08/04	34.8	481
C4	60 x 116	11/5/04	POG2	Retired	11/08/04	30.7	352
D1	60 x 175	10/4/04	A-8, POG2	Retired	10/11/04	55.4	459
D2	60 x 116	10/6/04	A-8, POG2	Retired	10/22/04	42.3	559
D3	60 x 200	10/8/04	A-8, POG2	Retired	10/22/04	34.0	877
E1	60 x 106	11/2/04	POG2	Retired	11/08/04	39.8	495
tubelet 1AA	60 x 30	---	POG2	Retired	---	64.5	96
tubelet 1BB	60 x 30	---	POG2	Retired	---	29.4	124
tubelet 2A	60 x 30	---	POG2	Retired	---	29.3	102

tubelet 1A	60 x 30	---	A	Retired	---		50
tubelet 1B	60 x 30	---	A	Retired	---		50
						Total yardage	17,973

Water Treatment Plant Operation:

The water treatment plant was operated for two and a half hours on Wednesday to remove weepage and rain water.

Day	Dredge Flow Gal/Day	WTP Influent Flow Gal/Day	WTP Effluent Flow Gal/Day	Krofta Influent TSS mg/L	Krofta Effluent TSS mg/L	GAC Effluent TSS mg/L
11/17/2004	-	154,056	120,896	<5	<5	<2.5

TSS data listed are for process control. Water treatment plant effluent parameters for WDNR reporting are monitored by Foth & Van Dyke under their environmental monitoring contract and reported on separately.

Upcoming Week of November 22 2004:

The sand placement will continue.

LFR OU1 2004 RA Operation Status Report November 24, 2004

PREPARED FOR: Bill Hartman, GW Partners
Ben Hung, WDNR
Jim Hahnenburg, USEPA
Boldt Oversight Team

PREPARED BY: Sherman LaViolette

DATE: November 29, 2004

This report covers the sand placement, geotube de-watering and water treatment plant operations from November 22 through November 24, 2004. The week was three days long due to Thanksgiving Holiday. During this period we placed sand in Deposit E, the geotubes continued to dewater. The treatment plant was not operated during this period

General Status:

Sand placement during this period was scheduled for 2 , 10 hour days and one 8 hour day..

Sand placement Status:

All figures below is from the dredge production computer.

Table 1 - Sand Placement Performance

Day	Sand Placement % Uptime	Sand Tons Placed	Actual Hours Operated
11/22/2004	100%	368	10.0
11/23/2004	100%	392	10.0
11/24/2004	93%	312	7.5

Geotube De-watering Operation:

The dredging is complete for the 2004 season. The geotubes will be sampled weekly. The sampling is a three-day process and the complete data will be available on Thursday each week.

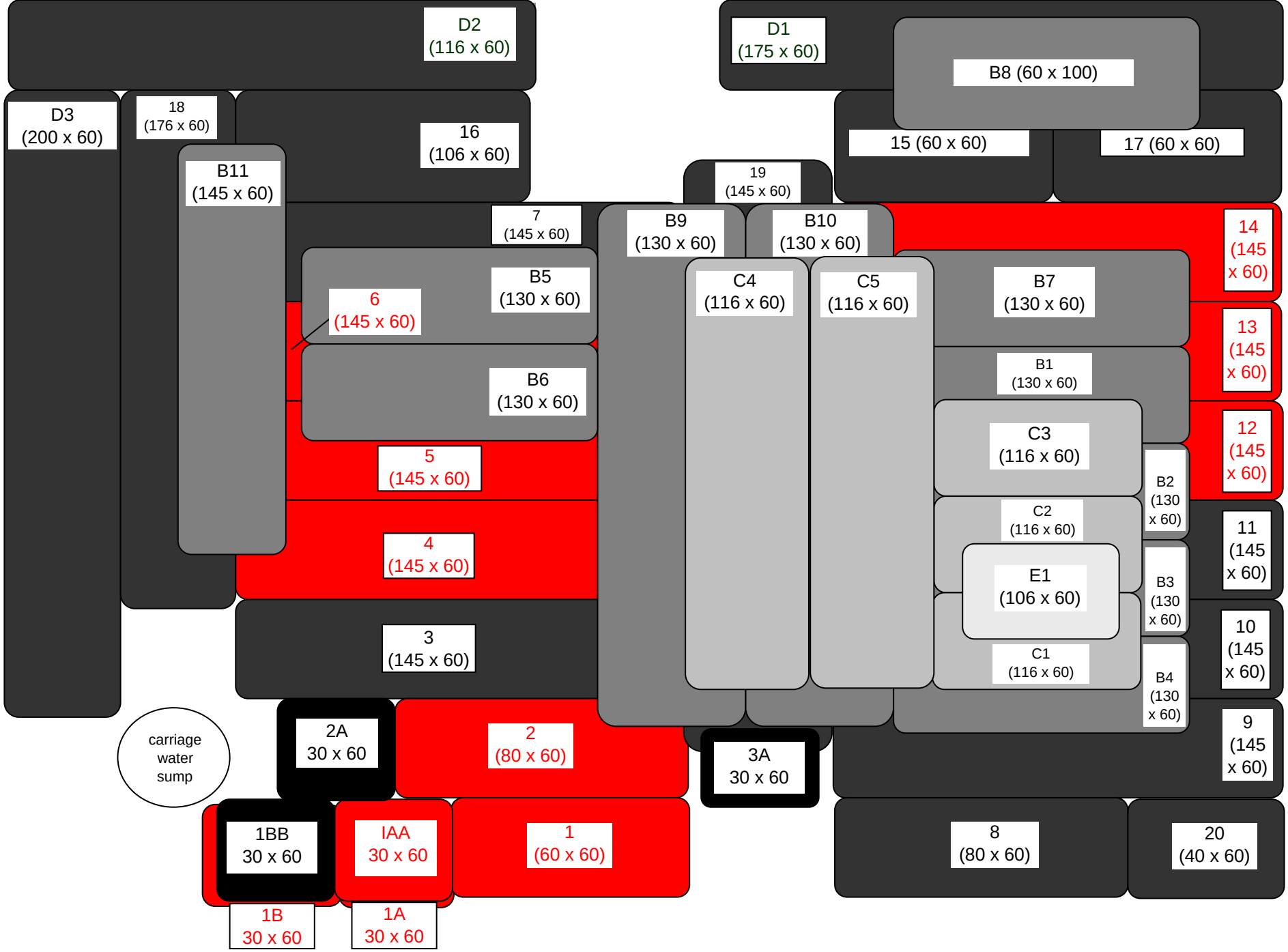
Unfortunately, the data collected for the week of November 22 was inconclusive. Due to understaffing we sampled each tube in one location instead of the normal multiple locations. This resulted in data that could not be compared to previous data.

Water Treatment Plant Operation:

The water treatment plant was not operated during this period.

Upcoming Week of November 29 2004:

The sand placement ceased November 24, 2004. Monday, November 29, 2004, the dredge will be relocated back the Subsection 8 of Deposit A do final sweep of an area missed in October. After the sweep, the dredging pipe and booster pump barge will be removed from the river and demobilization of the marine contractor will occur.


D2
(116 x 60)
D1
(175 x 60)
B8 (60 x 100)
D3
(200 x 60)
18
(176 x 60)
16
(106 x 60)
15 (60 x 60)
17 (60 x 60)
B11
(145 x 60)
19
(145 x 60)
7
(145 x 60)
B9
(130 x 60)
B10
(130 x 60)
14
(145
x 60)
B5
(130 x 60)
C4
(116 x 60)
C5
(116 x 60)
B7
(130 x 60)
6
(145 x 60)
13
(145
x 60)
B1
(130 x 60)
B6
(130 x 60)
C3
(116 x 60)
12
(145
x 60)
5
(145 x 60)
B2
(130
x 60)
C2
(116 x 60)
11
(145
x 60)
4
(145 x 60)
E1
(106 x 60)
B3
(130
x 60)
3
(145 x 60)
C1
(116 x 60)
10
(145
x 60)
B4
(130
x 60)
carriage
water
sump
2A
30 x 60
2
(80 x 60)
9
(145
x 60)
3A
30 x 60
1BB
30 x 60
IAA
30 x 60
1
(60 x 60)
8
(80 x 60)
20
(40 x 60)
1B
30 x 60
1A
30 x 60

Lower Fox River OU1 2004 Remedial Action: Geotube® Data
11/29 through 12/3

INFRASTRUCTURE ALTERNATIVES

Geotube Number	Diameter (ft.) x Length (ft.)	Date placed in service	Contains Deposit(s)	Date taken out of Service	Percent Solids (sample date)	Percent Solids Calculation				
						Front	Mid	Back	Average (highlighted = weighted)	Notes
1	60 x 60	9/9/04	D, E	09/12/04	68.7 (11/15/04)					No longer sampled.
2	60 x 80	8/31/04	D, E, A-4	09/16/04	60.5 (11/29/04)	63.2%		55.0%	60.5%	Bulk of sediment in front.
3	60 x 145	9/8/04	D, E, A-4, A-8	10/11/04	55.6 (11/30,12/2)	66.2%	44.6%	45.3%	55.6%	Bulk of sediment in front.
4	60 x 145	9/10/04	D, E, A-4, A-8	10/08/04	59.1 (10/1/04)					No longer sampled.
5	60 x 145	9/10/04	D, E, A-4, A-8	10/11/04	61.9 (11/30/04)	74.2%	56.6%	42.4%	61.9%	Bulk of sediment in front.
6	60 x 145	9/21/04	A-4, A-8	10/13/04	78.0 (11/15/04)					No longer sampled.
7	60 x 145	10/1/04	A-4, A-8	10/11/04	51.3 (12/1/04)	65.2%	37.6%	37.0%	51.3%	Bulk of sediment in front.
8	60 x 80	9/1/04	D, E	09/12/04	57.3 (11/29/04)	62.6%		46.7%	57.3%	Bulk of sediment in front.
9	60 x 145	9/1/04	D, E	09/12/04	56.3 (11/29/04)	63.5%	52.8%	45.2%	56.3%	Bulk of sediment in front.
10	60 x 145	9/2/04	D, E	09/12/04	48.6 (12/2/04)			48.6%	48.6%	Bulk of sediment in front; affected by 12/1 dredging.
11	60 x 145	9/7/04	D, E, A-4, A-8	10/11/04	(12/2/04)			47.7%	47.7%	Bulk of sediment in front; affected by 12/1 dredging.
12	60 x 145	9/12/04	A-4, A-8	10/06/04	78.7 (11/16/04)					No longer sampled.
13	60 x 145	9/16/04	A-4, A-8	10/06/04	83.4 (11/16/04)					No longer sampled.
14	60 x 145	9/28/04	A-4, A-8	10/08/04	68.2 (11/16/04)					No longer sampled.
15	60 x 60	10/18/04	POG2	10/21/04	48.8 (12/2/04)	48.8%			48.8%	Affected by 12/1 dredging.
16	60 x 106	10/19/04	POG2	10/22/04	31.7 (12/1/04)		31.7%		31.7%	Decreased 8%; will be re-sampled today.
17	60 x 60	10/21/04	POG2	10/22/04	26.2 (12/2/04)			26.2%	26.2%	Affected by 12/1 dredging.
18	60 x 176	10/21/04	POG2	10/28/04	(12/2/04)	29.9%	30.0%	28.4%	29.4%	Homogenous throughout.
19	60 x 145	10/28/04	POG2	10/29/04	27.7 (12/2/04)	27.4%		28.0%	27.7%	Material homogenous; affected by 12/1 dredging.
20	60 x 40	10/19/04	POG2	11/05/04	31.8 (11/29/04)	30.0%		33.6%	31.8%	Material homogenous.
B1	60 x 130	10/11/04	A-8, POG2	10/22/04	36.4 (12/2/04)	36.2%	34.3%	38.7%	36.4%	Material homogenous; affected by 12/1 dredging.
B2	60 x 130	10/12/04	A-8, POG2	10/22/04	42.0 (12/2/04)	35.6%	50.9%	39.4%	42.0%	Affected by 12/1 dredging.
B3	60 x 130	10/12/04	A-8, POG2	10/22/04	34.1 (12/2/04)			34.1%	34.1%	Material homogenous; affected by 12/1 dredging.
B4	60 x 130	10/12/04	A-8, POG2	10/22/04	32.6 (12/2/04)	38.2%	31.8%	27.9%	32.6%	Material homogenous; affected by 12/1 dredging.
B5	60 x 130	10/18/04	POG2	11/08/04	29.7 (12/1/04)	28.6%	29.5%	30.9%	29.7%	Material homogenous throughout.
B6	60 x 130	10/18/04	POG2	11/08/04	31.2 (11/30/04)	34.0%	29.4%	30.3%	31.2%	Material homogenous throughout.
B7	60 x 130	10/25/04	POG2	10/26/04	28.9 (12/2/04)	28.8%	30.1%	27.8%	28.9%	Material homogenous; affected by 12/1 dredging.
B9	60 x 130	11/1/04	POG2	11/04/04	32.7 (12/2/04)	29.6%	36.0%	32.4%	32.7%	Material homogenous; affected by 12/1 dredging.
B10	60 x 130	11/1/04	POG2	11/04/04	35.9 (12/2/04)	40.2%		31.6%	35.9%	Material homogenous; affected by 12/1 dredging.
B11	60 x 145	11/4/04	POG2	11/08/04	30.6 (12/2/04)	31.2%	32.2%	28.4%	30.6%	Material homogenous.
C1	60 x 116	10/26/04	POG2	10/29/04	29.6 (12/2/04)	28.3%	31.4%	29.2%	29.6%	Material homogenous; affected by 12/1 dredging.
C2	60 x 116	10/27/04	POG2	10/29/04	28.1 (12/2/04)	29.6%	25.3%	29.4%	28.1%	Material homogenous; affected by 12/1 dredging.
C3	60 x 116	11/3/04	POG2	11/08/04	29.2 (12/2/04)	29.3%		29.1%	29.2%	Material homogenous; affected by 12/1 dredging.
C4	60 x 116	11/5/04	POG2	11/08/04	31.2 (12/2/04)	31.3%		31.0%	31.2%	Material homogenous; affected by 12/1 dredging.
C5	60 x 116	12/1/04	A-8	12/02/04						New Tube, Not Sampled
D1	60 x 175	10/4/04	A-8, POG2	10/11/04	45.0 (12/2/04)	36.2%	40.4%	58.5%	45.0%	Material homogenous; affected by 12/1 dredging--least affected in back.
D2	60 x 116	10/6/04	A-8, POG2	10/22/04	43.7 (12/2/04)	35.7%	39.9%	55.6%	43.7%	Increased 6%.
D3	60 x 200	10/8/04	A-8, POG2	10/22/04	44.6 (12/2/04)	36.7%	62.5%	34.5%	44.6%	Center is gravel
E1	60 x 106	11/2/04	POG2	11/08/04	31.1 (12/2/04)	29.7%		32.4%	31.1%	Material homogenous; affected by 12/1 dredging.
tubelet 1AA	60 x 30	---	POG2	---	64.5 (11/15/04)					No longer sampled.
tubelet 1BB	60 x 30	---	POG2	---	36.4 (11/29/04)		36.4%		36.4%	Increased 6%.
tubelet 2A	60 x 30	---	POG2	---	27.3 (11/29/04)		27.3%		27.3%	Decreased 2% (within standard deviation)
tubelet 1A	60 x 30	---	A	---	73.6 (10/13/04)					No longer sampled.
tubelet 1B	60 x 30	---	A	---	59.1 (10/13/04)					No longer sampled.
tubelet 3A	60 x 30	---	A	---	---	---	---	---	---	New Tube, Not Sampled

Geotube Comparison

Geotube Number	Diameter (ft.) x Length (ft.)	Date placed in service	Contains Deposit(s)	Date taken out of Service	12/2 Percent Solids	11/15 Percent Solids	Change Percent Solids	Notes
1	60 x 60	9/9/04	D, E	09/12/04	68.7 (11/15/04)	68.7		No longer sampled.
2	60 x 80	8/31/04	D, E, A-4	09/16/04	60.5	56.5	4.0	Bulk of sediment in front.
3	60 x 145	9/8/04	D, E, A-4, A-8	10/11/04	55.6	49.1	6.5	Bulk of sediment in front.
4	60 x 145	9/10/04	D, E, A-4, A-8	10/08/04	59.1 (10/1/04)			No longer sampled.
5	60 x 145	9/10/04	D, E, A-4, A-8	10/11/04	61.9	47.5	14.4	Bulk of sediment in front.
6	60 x 145	9/21/04	A-4, A-8	10/13/04	78.0 (11/15/04)	78.0		No longer sampled.
7	60 x 145	10/1/04	A-4, A-8	10/11/04	51.3	43.8	7.5	Bulk of sediment in front.
8	60 x 80	9/1/04	D, E	09/12/04	57.3	49.0	8.3	Bulk of sediment in front.
9	60 x 145	9/1/04	D, E	09/12/04	56.3	52.0	4.3	Bulk of sediment in front.
10	60 x 145	9/2/04	D, E	09/12/04	48.6	49.0	-0.4	Bulk of sediment in front; affected by 12/1 dredging.
11	60 x 145	9/7/04	D, E, A-4, A-8	10/11/04	47.7	48.3	-0.6	Bulk of sediment in front; affected by 12/1 dredging.
12	60 x 145	9/12/04	A-4, A-8	10/06/04	78.7 (11/16/04)	78.7		No longer sampled.
13	60 x 145	9/16/04	A-4, A-8	10/06/04	83.4 (11/16/04)	83.4		No longer sampled.
14	60 x 145	9/28/04	A-4, A-8	10/08/04	68.2 (11/16/04)	68.2		No longer sampled.
15	60 x 60	10/18/04	POG2	10/21/04	48.8	45.5	3.3	Affected by 12/1 dredging.
16	60 x 106	10/19/04	POG2	10/22/04	31.7	41.0	-9.3	Decreased 8%; Bad data point, will be re-sampled today.
17	60 x 60	10/21/04	POG2	10/22/04	26.2	27.9	-1.7	Affected by 12/1 dredging.
18	60 x 176	10/21/04	POG2	10/28/04	29.4	28.4	1.0	Homogenous throughout.
19	60 x 145	10/28/04	POG2	10/29/04	27.7	27.7	0.0	Material homogenous; affected by 12/1 dredging.
20	60 x 40	10/19/04	POG2	11/05/04	31.8	30.4	1.4	Material homogenous.
B1	60 x 130	10/11/04	A-8, POG2	10/22/04	36.4	50.4	-14.0	Material homogenous; affected by 12/1 dredging.
B2	60 x 130	10/12/04	A-8, POG2	10/22/04	42.0	36.0	6.0	Affected by 12/1 dredging.
B3	60 x 130	10/12/04	A-8, POG2	10/22/04	34.1	35.5	-1.4	Material homogenous; affected by 12/1 dredging.

B4	60 x 130	10/12/04	A-8, POG2	10/22/04	32.6	32.7	-0.1	Material homogenous; affected by 12/1 dredging.
B5	60 x 130	10/18/04	POG2	11/08/04	29.7	26.7	3.0	Material homogenous throughout.
B6	60 x 130	10/18/04	POG2	11/08/04	31.2	25.8	5.4	Material homogenous throughout.
B7	60 x 130	10/25/04	POG2	10/26/04	28.9	27.8	1.1	Material homogenous; affected by 12/1 dredging.
B9	60 x 130	11/1/04	POG2	11/04/04	32.7			Material homogenous; affected by 12/1 dredging.
B10	60 x 130	11/1/04	POG2	11/04/04	35.9	29.7	6.2	Material homogenous; affected by 12/1 dredging.
B11	60 x 145	11/4/04	POG2	11/08/04	30.6	34.6	-4.0	Material homogenous.
C1	60 x 116	10/26/04	POG2	10/29/04	29.6	30.6	-1.0	Material homogenous; affected by 12/1 dredging.
C2	60 x 116	10/27/04	POG2	10/29/04	28.1	20.5	7.6	Material homogenous; affected by 12/1 dredging.
C3	60 x 116	11/3/04	POG2	11/08/04	29.2	28.6	0.6	Material homogenous; affected by 12/1 dredging.
C4	60 x 116	11/5/04	POG2	11/08/04	31.2	34.8	-3.6	Material homogenous; affected by 12/1 dredging.
C5	60 x 116	12/1/04	A-8	12/02/04				New Tube, Not Sampled
D1	60 x 175	10/4/04	A-8, POG2	10/11/04	45.0	55.4	-10.4	Material homogenous; affected by 12/1 dredging--least affected in back.
D2	60 x 116	10/6/04	A-8, POG2	10/22/04	43.7	42.3	1.4	
D3	60 x 200	10/8/04	A-8, POG2	10/22/04	44.6	34.0	10.6	Center is gravel
E1	60 x 106	11/2/04	POG2	11/08/04	31.1	39.8	-8.7	Material homogenous; affected by 12/1 dredging.
tubelet 1AA	60 x 30	---	POG2	---	64.5 (11/15/04)	64.5		No longer sampled.
tubelet 1BB	60 x 30	---	POG2	---	36.4	29.4	7.0	
tubelet 2A	60 x 30	---	POG2	---	27.3	29.3	-2.0	Decreased 2% (within standard deviation)
tubelet 1A	60 x 30	---	A	---	73.6 (10/13/04)			No longer sampled.
tubelet 1B	60 x 30	---	A	---	59.1 (10/13/04)			No longer sampled.
tubelet 3A	60 x 30	---	A	---	---	---		New Tube, Not Sampled

LFR OU1 2004 RA Operation Status Report December 3, 2004

PREPARED FOR: Bill Hartman, GW Partners
Ben Hung, WDNR
Jim Hahnenburg, USEPA
Boldt Oversight Team

PREPARED BY: Sherman LaViolette

DATE: December 6, 2004

This will be the last operation status report for 2004. This report covers the activities from November 29 through December 3, 2004. During this period we dredged Subsection 8 of deposit A on December 1st. The treatment plant was operated briefly during this period.

General Status:

The project is currently being demobilized.

Dredging Status:

For seven hours on December 1 the dredge swept the locations in Subsection 8 of Deposit A where the final dredge elevations were above target elevation. The final bathymetric survey will be forth coming.

The dredge pipe in the river was floated and removed for seasonal demobilization.

Geotube Dewatering Operation:

The material from the December 1st dredging was placed in two new tubes, Tubelet 3A and C5 (116 X 60) and existing Tube B8. This addition of sediment and dredge water had a direct effect on retired tubes adjacent to those active tubes. The geotube data has been previously sent.

Water Treatment Plant Operation:

Due to the dredging on December 1st, the plant was operated this week. The water treatment plant was operated for 5 hours on December 1 (455,000 gal discharged). On December 3 the plant was operated 2 hours (159,000 gal. discharged) to draw down the water in the dewatering pad.

Upcoming Activities

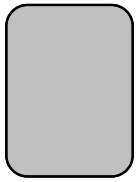
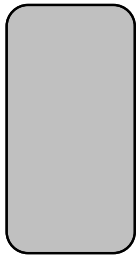
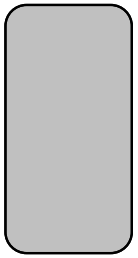
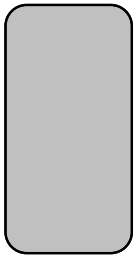
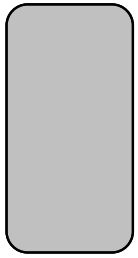
Demobilization will continue. The geotubes will be periodically sampled.

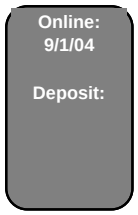
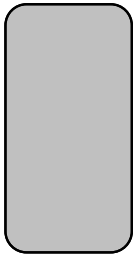
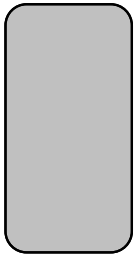
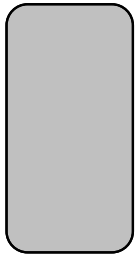
Appendix B
Geotextile Tube Sampling Data

Appendix B-1

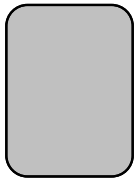
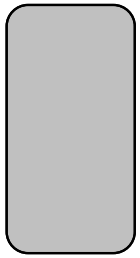
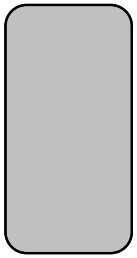
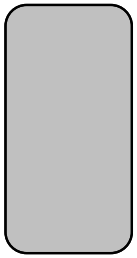
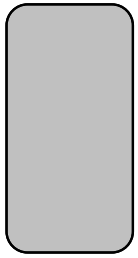
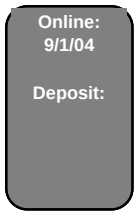
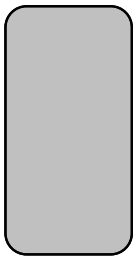
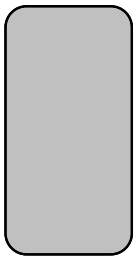
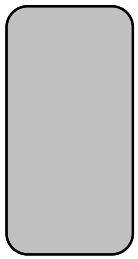
Infrastructure Alternatives Tube Sampling Data

Lower Fox River OU1 2004 Remedial Action: Geotube® Utilization--Volume and Percent Solids, 9/3/04

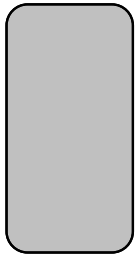
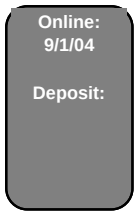
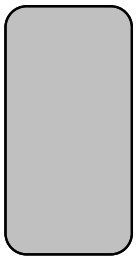
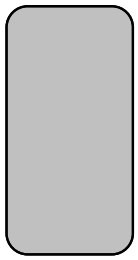
Geotube No. 1 Length, ft. 60	Geotube No. 2 Length, ft. 80	Geotube No. 3 Length, ft. 145	Geotube No. 4 Length, ft. 145	Geotube No. 5 Length, ft. 145	Geotube No. 6 Length, ft.	
						
Total Volume, yds^3	Total Volume, yds^3 340	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Geotube Volume, yd^3 1,143
Percent Utilization 0%	Percent Utilization 79%	Percent Utilization 0%	Percent Utilization 0%	Percent Utilization 0%	% Utilized	
Percent Solids	Percent Solids 26.69	Percent Solids	Percent Solids	Percent Solids	Percent Solids	In-situ Volume Removed, yd^3 (est.)

Geotube No. 8 Length, ft. 80	Geotube No. 9 Length, ft. 145	Geotube No. 10 Length, ft. 145	Geotube No. 11 Length, ft. 145	Geotube No. 12 Length, ft.	Geotube No. 13 Length, ft.	
						Geotube Bulk Factor #DIV/0!
Total Volume, yds^3 141	Total Volume, yds^3 496	Total Volume, yds^3 165	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	
Percent Utilization 33%	Percent Utilization 63%	Percent Utilization 21%	Percent Utilization 0%	Percent Utilization	Percent Utilization	
Percent Solids ---	Percent Solids ---	Percent Solids 35.28	Percent Solids	Percent Solids	Percent Solids	

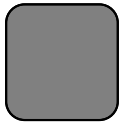
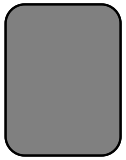
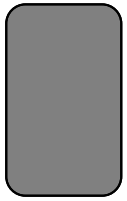
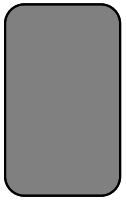
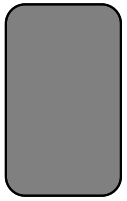
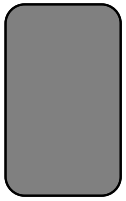
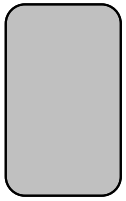
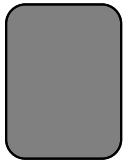
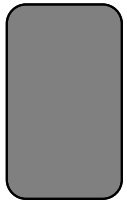
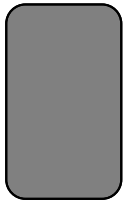
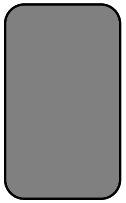
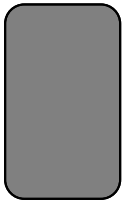
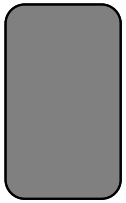
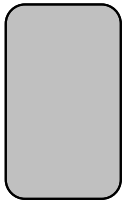
Lower Fox River OU1 2004 Remedial Action: Geotube® Utilization--Volume and Percent Solids, 9/7/04

Geotube No. 1 Length, ft. 60	Geotube No. 2 Length, ft. 80	Geotube No. 3 Length, ft. 145	Geotube No. 4 Length, ft. 145	Geotube No. 5 Length, ft. 145	Geotube No. 6 Length, ft.	
						
Total Volume, yds^3	Total Volume, yds^3 91	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Geotube Volume, yd^3 1,062
Percent Utilization 0%	Percent Utilization 21%	Percent Utilization 0%	Percent Utilization 0%	Percent Utilization 0%	% Utilized	
Percent Solids	Percent Solids 38.22	Percent Solids	Percent Solids	Percent Solids	Percent Solids	In-situ Volume Removed, yd^3 (est.)
Geotube No. 8 Length, ft. 80	Geotube No. 9 Length, ft. 145	Geotube No. 10 Length, ft. 145	Geotube No. 11 Length, ft. 145	Geotube No. 12 Length, ft.	Geotube No. 13 Length, ft.	
						Geotube Bulk Factor #DIV/0!
Total Volume, yds^3 249	Total Volume, yds^3 316	Total Volume, yds^3 406	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	
Percent Utilization 58%	Percent Utilization 40%	Percent Utilization 52%	Percent Utilization 0%	Percent Utilization	Percent Utilization	
Percent Solids 18.07	Percent Solids 37.01	Percent Solids 39.63	Percent Solids	Percent Solids	Percent Solids	

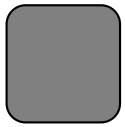
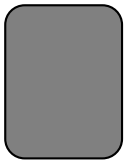
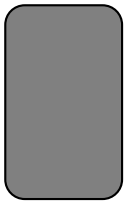
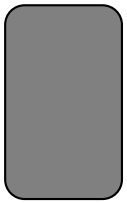
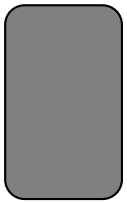
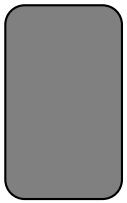
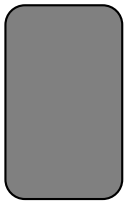
Lower Fox River OU1 2004 Remedial Action: Geotube® Utilization--Volume and Percent Solids, 9/13/04

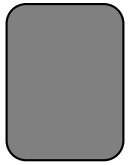
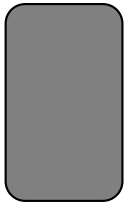
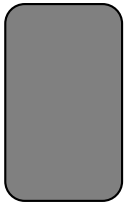
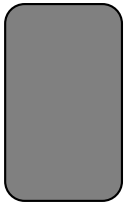
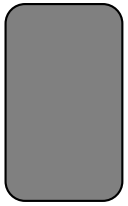
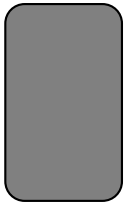
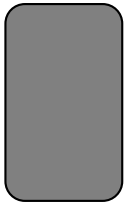
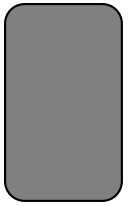
Geotube No. 1	Geotube No. 2	Geotube No. 3	Geotube No. 4	Geotube No. 5	Geotube No. 6	
Length, ft. 60	Length, ft. 80	Length, ft. 145	Length, ft. 145	Length, ft. 145	Length, ft.	
						
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Geotube Volume, yd^3
330	407	632	564	564		5,138
Percent Utilization	Percent Utilization	Percent Utilization	Percent Utilization	Percent Utilization	% Utilized	
102%	94%	81%	72%	72%		
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	In-situ Volume Removed, yd^3 (est.)
---	29.81	29.47	25.36			
Geotube No. 8	Geotube No. 9	Geotube No. 10	Geotube No. 11	Geotube No. 12	Geotube No. 13	
Length, ft. 80	Length, ft. 145	Length, ft. 145	Length, ft. 145	Length, ft.	Length, ft.	
						Geotube Bulk Factor
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	#DIV/0!
394	789	737	722			
Percent Utilization	Percent Utilization	Percent Utilization	Percent Utilization	Percent Utilization	Percent Utilization	
91%	101%	94%	92%			
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	
28.1	34.64	38.7	37.59			

Lower Fox River OU1 2004 Remedial Action: Geotube® Utilization--Volume and Percent Solids, 9/24/04

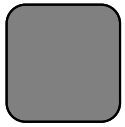
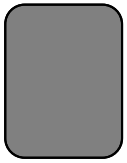
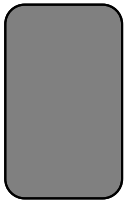
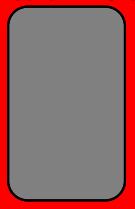
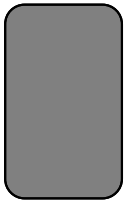
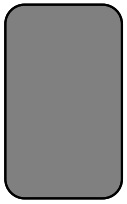
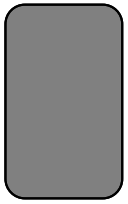
Geotube No. 1 60 ft. x 60 ft.	Geotube No. 2 60 ft. x 80 ft.	Geotube No. 3 60 ft. x 145 ft.	Geotube No. 4 60 ft. x 145 ft.	Geotube No. 5 60 ft. x 145 ft.	Geotube No. 6 60 ft. x 145 ft.	Geotube No. 7 60 ft. x 145 ft.	
							
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	
9/9/04	8/31/04	9/8/04	9/10/04	9/10/04	9/21/04		**Total Geotube 6563**
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	
D, E	D, E, A	D, E, A	D, E, A	D, E, A	A		
Status	Status	Status	Status	Status	Status	Status	
Inactive	Topping off	Topping off	Active	Active	Active		
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	
61.9% (9/24)	45.2% (9/24)	40.0% (9/24)	42.6% (9/24)	34.1% (9/24)	59.4% (9/24)		
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	**Insitu Volume**
192	327	767	767	778	519		
Geotube No. 8 60 ft. x 80 ft.	Geotube No. 9 60 ft. x 145 ft.	Geotube No. 10 60 ft. x 145 ft.	Geotube No. 11 60 ft. x 145 ft.	Geotube No. 12 60 ft. x 145 ft.	Geotube No. 13 60 ft. x 145 ft.	Geotube No. 14 60 ft. x 145 ft.	
							
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	
9/1/04	9/1/04	9/2/04	9/7/04	9/12/04	9/16/04		**Geotube Bulking**
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Percent Utilization	
D, E	D, E	D, E	D, E, A	A	A		
Status	Status	Status	Status	Status	Status	Status	
Inactive	Inactive	Inactive	Topping off	Active	Active		
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	
47.6% (9/24)	45.8% (9/24)	61.4% (9/24)	48.5% (9/24)	results pending	72.3% (9/24)		
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	
310	627	552	810	443	471		

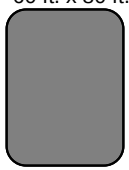
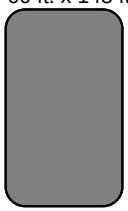
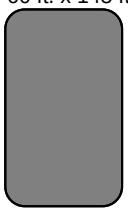
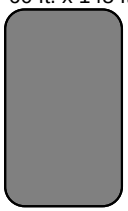
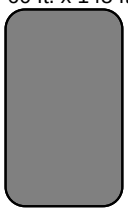
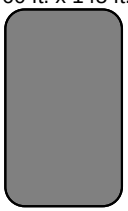
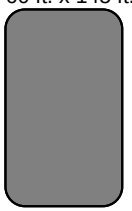
Lower Fox River OU1 2004 Remedial Action: Geotube® Utilization--Volume and Percent Solids, 10/1/04

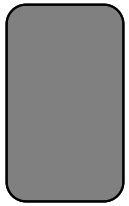
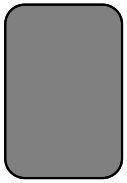
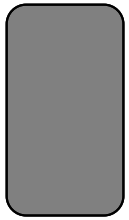
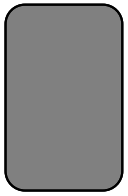
Geotube No. 1 60 ft. x 60 ft.	Geotube No. 2 60 ft. x 80 ft.	Geotube No. 3 60 ft. x 145 ft.	Geotube No. 4 60 ft. x 145 ft.	Geotube No. 5 60 ft. x 145 ft.	Geotube No. 6 60 ft. x 145 ft.	Geotube No. 7 60 ft. x 145 ft.	
							Total Geotube Volume, yd^3
							6824
							Insitu Volume Removed, yd^3
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	
9/9/04	8/31/04	9/8/04	9/10/04	9/10/04	9/21/04	10/1/04	
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Geotube Bulking Factor
D, E	D, E, A	D, E, A	D, E, A	D, E, A	A	A	
Status	Status	Status	Status	Status	Status	Status	
Inactive	Topping off	Topping off	Active	Active	Active	Active	
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	
65.3% (10/1)	46.3% (10/1)	40.4% (tube avg-10/1)	59.5% (10/1)	35.4% (10/1)	68.5% (10/1)	*pending*	
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	
171	310	559	809	496	396	*pending*	

Geotube No. 8 60 ft. x 80 ft.	Geotube No. 9 60 ft. x 145 ft.	Geotube No. 10 60 ft. x 145 ft.	Geotube No. 11 60 ft. x 145 ft.	Geotube No. 12 60 ft. x 145 ft.	Geotube No. 13 60 ft. x 145 ft.	Geotube No. 14 60 ft. x 145 ft.	Geotube No. D1 60 ft. x 175 ft.
							
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
9/1/04	9/1/04	9/2/04	9/7/04	9/12/04	9/16/04	9/28/04	9/29/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	D, E	D, E	D, E, A	A	A	A	A
Status	Status	Status	Status	Status	Status	Status	Status
Inactive	Inactive	Inactive	Topping off	Active	Active	Active	Active
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
42.9% (9/29)	44.4% (9/30)	61.4% (9/30)	44.5% (9/29)	61.4% (9/30)	80.6% (9/30)	57.0% (10/1)	*pending*
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
289	627	578	534	678	614	391	372

INFRASTRUCTURE ALTERNATIVES

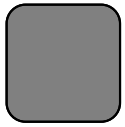
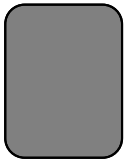
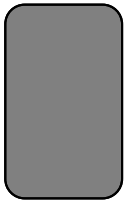
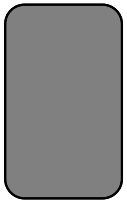
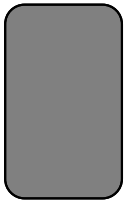
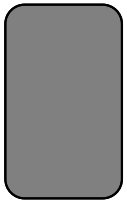
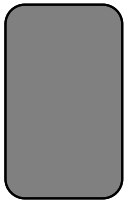
Geotube No. 1 60 ft. x 60 ft.	Geotube No. 2 60 ft. x 80 ft.	Geotube No. 3 60 ft. x 145 ft.	Geotube No. 4 60 ft. x 145 ft.	Geotube No. 5 60 ft. x 145 ft.	Geotube No. 6 60 ft. x 145 ft.	Geotube No. 7 60 ft. x 145 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
9/9/04	8/31/04	9/8/04	9/10/04	9/10/04	9/21/04	10/1/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	D, E, A-4	D, E, A-4, A-8	D, E, A-4, A-8	D, E, A-4, A-8	A-4, A-8	A-4, A-8
Status	Status	Status	Status	Status	Status	Status
Inactive	Topping off	Topping off	Inactive	Active	Active	Active
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
56.8%	48.8%	46.5%	59.5% (10/1)	41.1%	71.4% (10/4)	32.3%
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
181	331	609	809	684	778	743

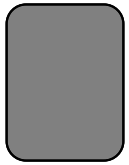
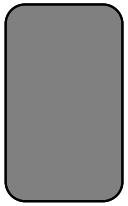
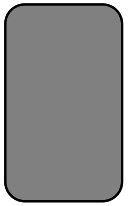
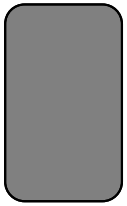
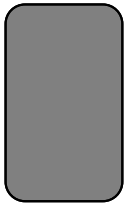
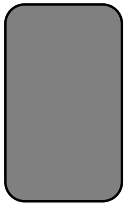
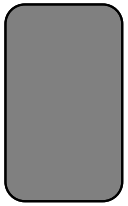
Geotube No. 8 60 ft. x 80 ft.	Geotube No. 9 60 ft. x 145 ft.	Geotube No. 10 60 ft. x 145 ft.	Geotube No. 11 60 ft. x 145 ft.	Geotube No. 12 60 ft. x 145 ft.	Geotube No. 13 60 ft. x 145 ft.	Geotube No. 14 60 ft. x 145 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
9/1/04	9/1/04	9/2/04	9/7/04	9/12/04	9/16/04	9/28/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	D, E	D, E	D, E, A-4, A-8	A-4, A-8	A-4, A-8	A-4, A-8
Status	Status	Status	Status	Status	Status	Status
Inactive	Inactive	Inactive	Topping off	Active	Active	Active
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
48.2%	46.6%	61.8%	40.7%	72.3%	74.6%	73.8% (10/4)
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
310	731	612	762	902	751	790

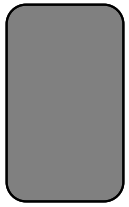
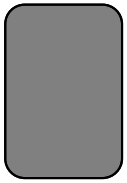
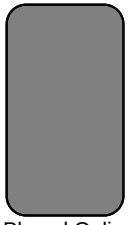
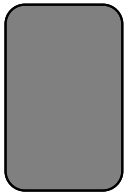
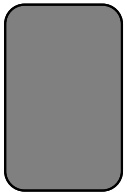
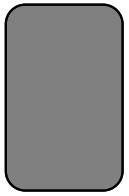
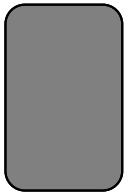
Geotube No. D1 60 ft. x 175 ft.	Geotube No. D2 60 ft. x 116 ft.	Geotube No. D3 60 ft. x 200 ft.	Geotube No.B1 60 ft. x 110 ft.	
				Total Geotube Volume, yd^3
				11,083
				Insitu Volume Removed, yd^3
Placed Online	Placed Online	Placed Online	Placed Online	
10/4/04	10/6/04	10/8/04	10/11/04	
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Geotube Bulking Factor
A-8	A-8	A-8	A-8	
Status	Status	Status	Status	
Active	Active	Active	Active	
Percent Solids	Percent Solids	Percent Solids	Percent Solids	
43.1%	24.9%	29.8%	*pending*	
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	
726	481	881	nominal	

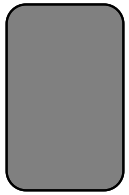
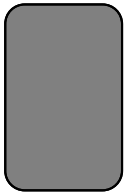
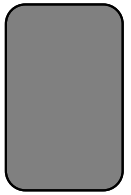
Notes
Geotubes placed in the "ditch" on the north and east sides of the lay-down area are given the prefix 'D' and are numbered in the order that they were placed in service.
Geotubes on the second tier are given the prefix 'B' and are assigned numbers based on the order that they were placed in service (for example, the first second layer Geotubes is given the name 'B1.')

INFRASTRUCTURE ALTERNATIVES

Geotube No. 1 60 ft. x 60 ft.	Geotube No. 2 60 ft. x 80 ft.	Geotube No. 3 60 ft. x 145 ft.	Geotube No. 4 60 ft. x 145 ft.	Geotube No. 5 60 ft. x 145 ft.	Geotube No. 6 60 ft. x 145 ft.	Geotube No. 7 60 ft. x 145 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
9/9/04	8/31/04	9/8/04	9/10/04	9/10/04	9/21/04	10/1/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	D, E, A-4	D, E, A-4, A-8	D, E, A-4, A-8	D, E, A-4, A-8	A-4, A-8	A-4, A-8
Status	Status	Status	Status	Status	Status	Status
Inactive	Inactive	Topping off	Inactive	Topping off	Inactive	Inactive
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
56.8% (10/11)	46.2%	46.4% (Geotube avg)	59.5% (10/1)	41.1% (10/11)	71.4% (10/11)	32.3% (10/11)
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
224	367	890	809	843	878	798

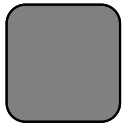
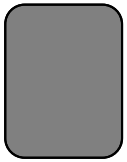
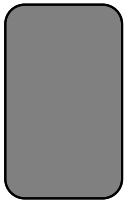
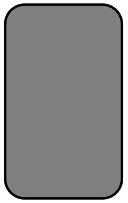
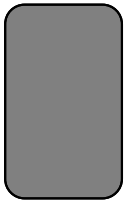
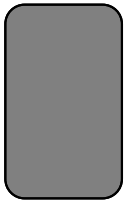
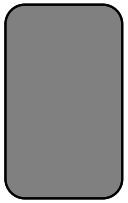
Geotube No. 8 60 ft. x 80 ft.	Geotube No. 9 60 ft. x 145 ft.	Geotube No. 10 60 ft. x 145 ft.	Geotube No. 11 60 ft. x 145 ft.	Geotube No. 12 60 ft. x 145 ft.	Geotube No. 13 60 ft. x 145 ft.	Geotube No. 14 60 ft. x 145 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
9/1/04	9/1/04	9/2/04	9/7/04	9/12/04	9/16/04	9/28/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	D, E	D, E	D, E, A-4, A-8	A-4, A-8	A-4, A-8	A-4, A-8
Status	Status	Status	Status	Status	Status	Status
Inactive	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
48.2% (10/11)	46.6% (10/11)	61.8% (10/11)	40.7% (10/11)	72.3% (10/11)	74.6% (10/11)	73.8% (10/4)
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
377	619	587	877	836	801	693

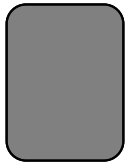
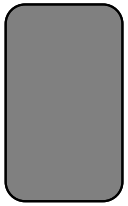
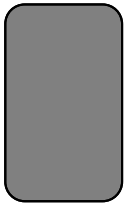
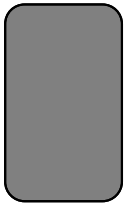
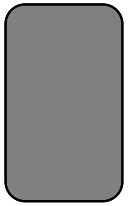
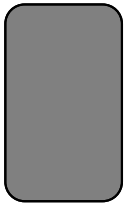
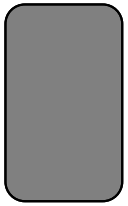
Geotube No. D1 60 ft. x 175 ft.	Geotube No. D2 60 ft. x 116 ft.	Geotube No. D3 60 ft. x 200 ft.	Geotube No.B1 60 ft. x 130 ft.	Geotube No.B2 60 ft. x 130 ft.	Geotube No.B3 60 ft. x 130 ft.	Geotube No.B4 60 ft. x 130 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
10/4/04	10/6/04	10/8/04	10/11/04	10/11/04	10/11/04	10/11/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
A-8	A-8	A-8	A-8	A-8	A-8	A-8
Status	Status	Status	Status	Status	Status	Status
Active	Active	Active	Active	Active	Active	Active
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
32.2%	32.2%	30.5% (Geotube avg)	20.8%	30.6%	24.6%	26.4%
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
818	715	800	539	404	404	472

Geotube No.B5 60 ft. x 130 ft.	Geotube No.B6 60 ft. x 130 ft.	Geotube No. 15 60 ft. x 30 ft.	
			Total Geotube Volume, yd^3
			13,751
			Insitu Volume Removed, yd^3
Placed Online	Placed Online	Placed Online	
10/18/04	10/18/04	10/18/04	
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Geotube Bulking Factor
POG2	POG2	POG2	
Status	Status	Status	
Active	Active	Active	
Percent Solids	Percent Solids	Percent Solids	
pending	*pending*	*pending*	
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	
nominal	*nominal*	*nominal*	

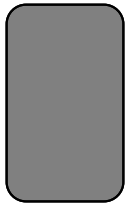
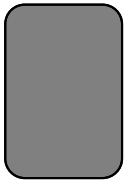
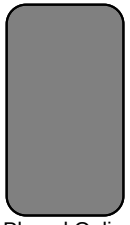
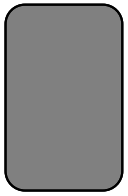
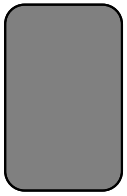
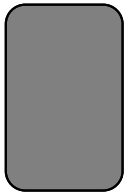
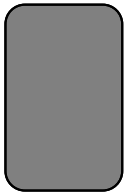
Notes
Geotubes placed in the "ditch" on the north and east sides of the lay-down area are given the prefix 'D' and are numbered in the order that they were placed in service.
Geotubes on the second tier are given the prefix 'B' and are assigned numbers in the order they were placed in service.

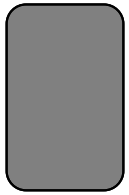
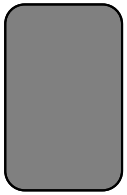
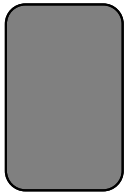
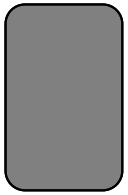
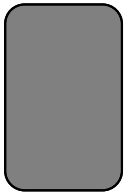
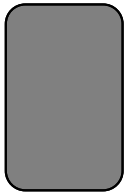
INFRASTRUCTURE ALTERNATIVES

Geotube No. 1 **60 ft. x 60 ft.**	Geotube No. 2 60 ft. x 80 ft.	Geotube No. 3 60 ft. x 145 ft.	**Geotube No. 4** **60 ft. x 145 ft.**	**Geotube No. 5** **60 ft. x 145 ft.**	**Geotube No. 6** **60 ft. x 145 ft.**	**Geotube No. 7** **60 ft. x 145 ft.**
						
Placed Online	Placed Online	Placed Online	**Placed Online**	**Placed Online**	**Placed Online**	**Placed Online**
9/9/04	8/31/04	9/8/04	**9/10/04**	**9/10/04**	**9/21/04**	**10/1/04**
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	**Contains Deposit(s)**	**Contains Deposit(s)**	**Contains Deposit(s)**	**Contains Deposit(s)**
D, E	D, E, A-4	D, E, A-4, A-8	**D, E, A-4, A-8**	**D, E, A-4, A-8**	**A-4, A-8**	**A-4, A-8**
Status	Status	Status	**Status**	**Status**	**Status**	**Status**
Inactive	Inactive	Inactive	**Inactive**	**Inactive**	**Inactive**	**Inactive**
Percent Solids	Percent Solids	Percent Solids	**Percent Solids**	**Percent Solids**	**Percent Solids**	**Percent Solids**
50.1% (10/13)	46.2% (10/18)	46.4% (10/18)	**59.5% (10/1)**	**47.8% (tube avg)**	**60.8% (tube avg)**	**35.4% (tube avg)**
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	**Total Volume, yds^3**	**Total Volume, yds^3**	**Total Volume, yds^3**	**Total Volume, yds^3**
231	370	541	**809**	**834**	**863**	**815**

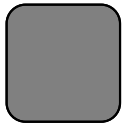
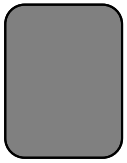
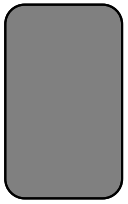
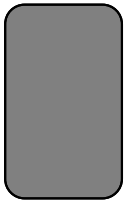
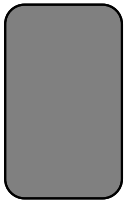
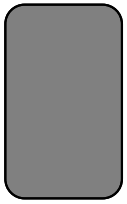
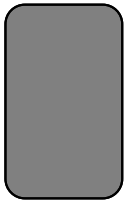
Geotube No. 8 **60 ft. x 80 ft.**	**Geotube No. 9** **60 ft. x 145 ft.**	**Geotube No. 10** **60 ft. x 145 ft.**	**Geotube No. 11** **60 ft. x 145 ft.**	Geotube No. 12 60 ft. x 145 ft.	Geotube No. 13 60 ft. x 145 ft.	Geotube No. 14 60 ft. x 145 ft.
						
Placed Online	**Placed Online**	**Placed Online**	**Placed Online**	Placed Online	Placed Online	Placed Online
9/1/04	**9/1/04**	**9/2/04**	**9/7/04**	9/12/04	9/16/04	9/28/04
Contains Deposit(s)	**Contains Deposit(s)**	**Contains Deposit(s)**	**Contains Deposit(s)**	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	**D, E**	**D, E**	**D, E, A-4, A-8**	A-4, A-8	A-4, A-8	A-4, A-8
Status	**Status**	**Status**	**Status**	Status	Status	Status
Inactive	**Inactive**	**Inactive**	**Inactive**	Inactive	Inactive	Inactive
Percent Solids	**Percent Solids**	**Percent Solids**	**Percent Solids**	Percent Solids	Percent Solids	Percent Solids
48.5% (10/12)	**57.7% (10/12)**	**52.2% (10/12)**	**50.7% (10/12)**	72.3% (10/11)	74.6% (10/11)	73.8% (10/4)
Total Volume, yds^3	**Total Volume, yds^3**	**Total Volume, yds^3**	**Total Volume, yds^3**	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
382	**757**	**560**	**847**	834	721	716

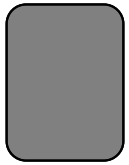
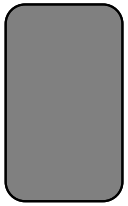
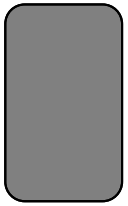
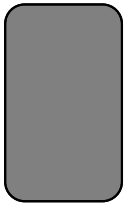
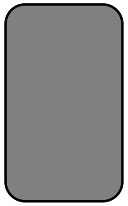
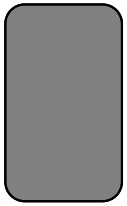
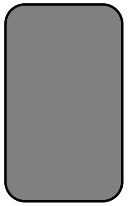
INFRASTRUCTURE ALTERNATIVES

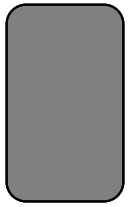
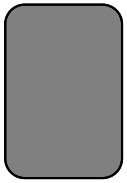
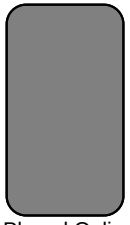
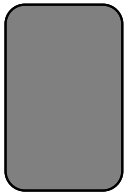
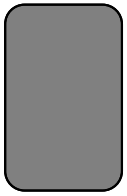
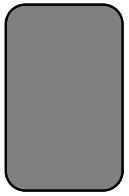
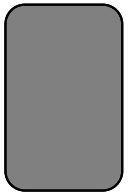
Geotube No. D1 60 ft. x 175 ft.	Geotube No. D2 60 ft. x 116 ft.	Geotube No. D3 60 ft. x 200 ft.	Geotube No.B1 60 ft. x 130 ft.	Geotube No.B2 60 ft. x 130 ft.	Geotube No.B3 60 ft. x 130 ft.	Geotube No.B4 60 ft. x 130 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
10/4/04	10/6/04	10/8/04	10/11/04	10/11/04	10/11/04	10/11/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2
Status	Status	Status	Status	Status	Status	Status
Active	Active	Active	Active	Active	Active	Active
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
33.9%	34.5%	37.0% (tube avg)	32.2% (tube avg)	30.4%	44.2% (tube avg)	34.2% (tube avg)
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
734	603	1052	601	696	255	525

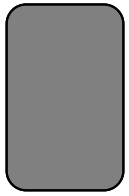
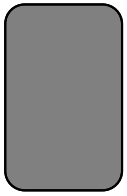
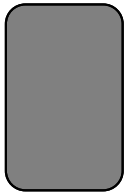
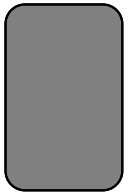
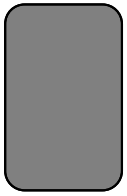
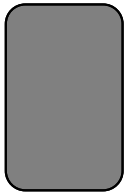
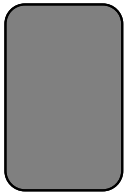
Geotube No.B5 60 ft. x 130 ft.	Geotube No.B6 60 ft. x 130 ft.	Geotube No. 15 60 ft. x 30 ft.	Geotube No. 16 60 ft. x 30 ft.	Geotube No. 16.5 60 ft. x 30 ft.	Geotube No. 17 60 ft. x 175 ft.	
						Total Geotube Volume, yd^3
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	16,456
10/18/04	10/18/04	10/18/04				Insitu Volume Removed, yd^3
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	
POG2	POG2	POG2	POG2	POG2	POG2	Geotube Bulking Factor
Status	Status	Status	Status	Status	Status	
Active	Active	Active	Active	Active	Active	
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	
27.9%	32.4%	34.7%			24.2% (tube avg)	
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	
216	368	361	408	408 (est.)	949	

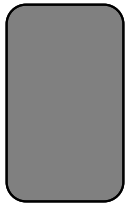
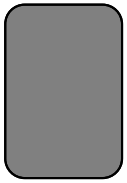
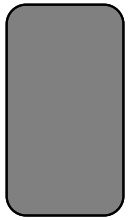
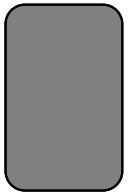
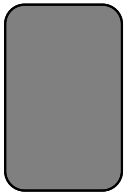
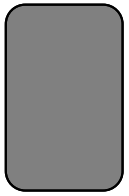
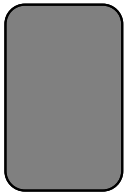
INFRASTRUCTURE ALTERNATIVES

Geotube No. 1 60 ft. x 60 ft.	Geotube No. 2 60 ft. x 80 ft.	Geotube No. 3 60 ft. x 145 ft.	Geotube No. 4 60 ft. x 145 ft.	Geotube No. 5 60 ft. x 145 ft.	Geotube No. 6 60 ft. x 145 ft.	Geotube No. 7 60 ft. x 145 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
9/9/04	8/31/04	9/8/04	9/10/04	9/10/04	9/21/04	10/1/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	D, E, A-4	D, E, A-4, A-8	D, E, A-4, A-8	D, E, A-4, A-8	A-4, A-8	A-4, A-8
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
50.1% (10/13)	49.7%	51.1%	59.5% (10/1)	47.8% (10/25)	60.8% (10/25)	56.2%
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
229	364	527	809	797	786	724

Geotube No. 8 60 ft. x 80 ft.	Geotube No. 9 60 ft. x 145 ft.	Geotube No. 10 60 ft. x 145 ft.	Geotube No. 11 60 ft. x 145 ft.	Geotube No. 12 60 ft. x 145 ft.	Geotube No. 13 60 ft. x 145 ft.	Geotube No. 14 60 ft. x 145 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
9/1/04	9/1/04	9/2/04	9/7/04	9/12/04	9/16/04	9/28/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	D, E	D, E	D, E, A-4, A-8	A-4, A-8	A-4, A-8	A-4, A-8
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
48.5% (10/12)	57.7% (10/12)	52.2% (10/12)	50.7% (10/12)	72.3% (10/11)	74.6% (10/11)	73.8% (10/4)
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
377	793	549	681	834	685	602

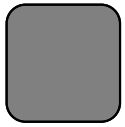
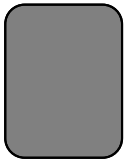
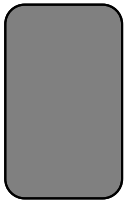
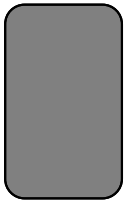
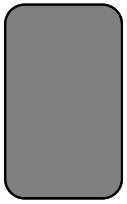
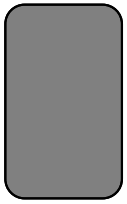
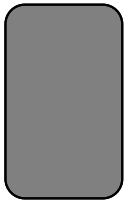
Geotube No. D1 60 ft. x 175 ft.	Geotube No. D2 60 ft. x 116 ft.	Geotube No. D3 60 ft. x 200 ft.	Geotube No.B1 60 ft. x 130 ft.	Geotube No.B2 60 ft. x 130 ft.	Geotube No.B3 60 ft. x 130 ft.	Geotube No.B4 60 ft. x 130 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
10/4/04	10/6/04	10/8/04	10/11/04	10/11/04	10/11/04	10/11/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
55.5%	34.7%	35.8%	35.7%	32.5%	*unable to sample*	*unable to sample*
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
663	564	941	591	374	328	348

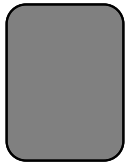
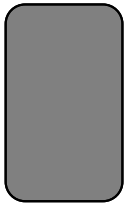
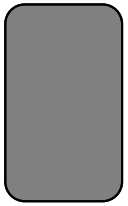
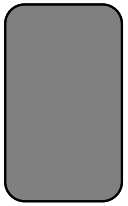
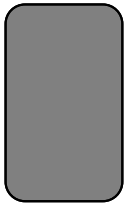
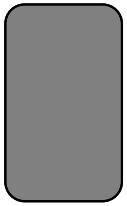
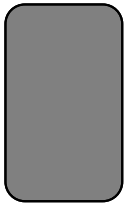
Geotube No.B5 60 ft. x 130 ft.	Geotube No.B6 60 ft. x 130 ft.	Geotube No. 15 60 ft. x 60 ft.	Geotube No. 16 60 ft. x 106 ft.	Geotube No. 17 60 ft. x 60 ft.	Geotube No. 18 60 ft. x 176 ft.	Geotube No. 19 60 ft. x 145
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
10/18/04	10/18/04	10/18/04	10/19/04	10/21/04	10/21/04	10/28/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
POG2	POG2	POG2	POG2	POG2	POG2	POG2
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
30.4%	30.7%	*unable to sample*	34.4%	*unable to sample*	25.5%	26.2%
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
453	475	210	424	310	484	752

Geotube No. 20 60 ft. x 40 ft.	Geotube No. B7 60 ft. x 130 ft.	Geotube No. B8 60 ft. x 101 ft.	Geotube No. B9 60 ft. x 130 ft.	Geotube No. B10 60 ft. x 130 ft.	Geotube No. C1 60 ft. x 116 ft.	Geotube No. C2 60 ft. x 116 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
10/29/04	10/25/04	10/25/04	11/1/04	11/1/04	10/26/04	10/27/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
POG2	POG2	POG2	POG2	POG2	POG2	POG2
Status	Status	Status	Status	Status	Status	Status
Active	Retired	Retired	Active	Active	Active	Active
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
too new to sample	27.3%	*unable to sample*	*too new to sample*	*too new to sample*	28.6%	26.7%
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
166	615	262	*nominal*	*nominal*	527	297

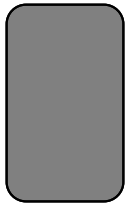
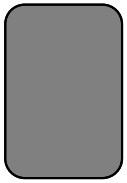
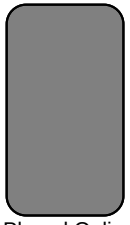
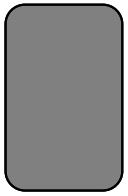
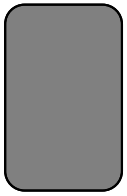
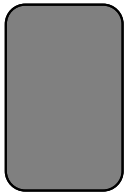
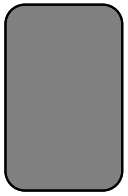
Total Geotube Volume, yd^3: 17,916

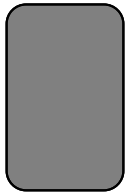
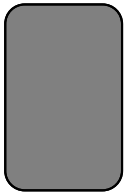
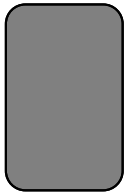
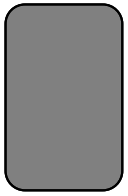
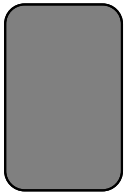
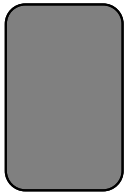
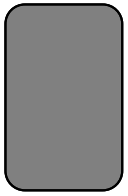
INFRASTRUCTURE ALTERNATIVES

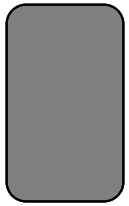
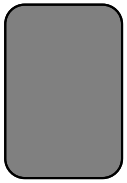
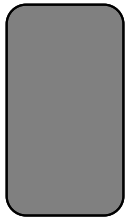
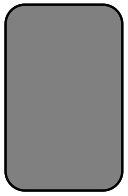
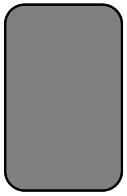
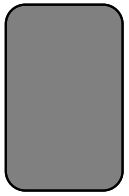
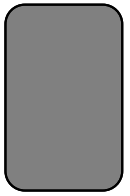
Geotube No. 1 60 ft. x 60 ft.	Geotube No. 2 60 ft. x 80 ft.	Geotube No. 3 60 ft. x 145 ft.	Geotube No. 4 60 ft. x 145 ft.	Geotube No. 5 60 ft. x 145 ft.	Geotube No. 6 60 ft. x 145 ft.	Geotube No. 7 60 ft. x 145 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
9/9/04	8/31/04	9/8/04	9/10/04	9/10/04	9/21/04	10/1/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	D, E, A-4	D, E, A-4, A-8	D, E, A-4, A-8	D, E, A-4, A-8	A-4, A-8	A-4, A-8
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
50.1% (10/13)	64.9% (10/28)	51.1% (11/1)	59.5% (10/1)	47.8% (10/25)	60.8% (10/25)	56.2% (10/28)
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
229	364	527	809	797	786	724

Geotube No. 8 60 ft. x 80 ft.	Geotube No. 9 60 ft. x 145 ft.	Geotube No. 10 60 ft. x 145 ft.	Geotube No. 11 60 ft. x 145 ft.	Geotube No. 12 60 ft. x 145 ft.	Geotube No. 13 60 ft. x 145 ft.	Geotube No. 14 60 ft. x 145 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
9/1/04	9/1/04	9/2/04	9/7/04	9/12/04	9/16/04	9/28/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	D, E	D, E	D, E, A-4, A-8	A-4, A-8	A-4, A-8	A-4, A-8
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
48.5% (10/12)	57.7% (10/12)	52.2% (10/12)	50.7% (10/12)	72.3% (10/11)	74.6% (10/11)	73.8% (10/4)
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
377	793	549	681	834	685	602

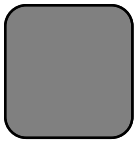
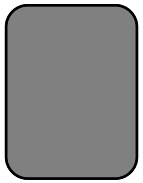
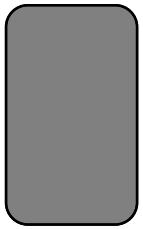
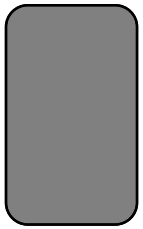
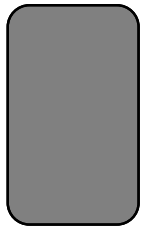
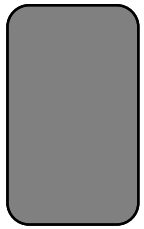
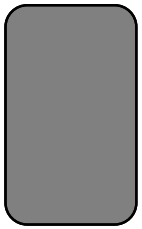
INFRASTRUCTURE ALTERNATIVES

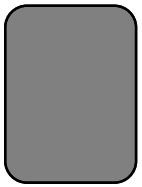
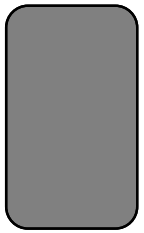
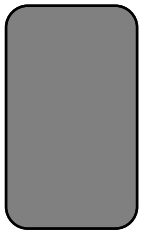
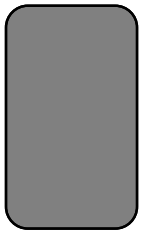
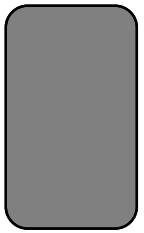
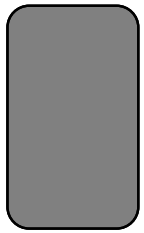
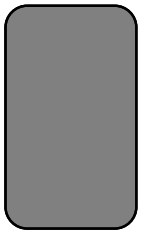
Geotube No. D1 60 ft. x 175 ft.	Geotube No. D2 60 ft. x 116 ft.	Geotube No. D3 60 ft. x 200 ft.	Geotube No.B1 60 ft. x 130 ft.	Geotube No.B2 60 ft. x 130 ft.	Geotube No.B3 60 ft. x 130 ft.	Geotube No.B4 60 ft. x 130 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
10/4/04	10/6/04	10/8/04	10/11/04	10/11/04	10/11/04	10/11/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
50.5% (11/8)	33.4% (11/8)	38.2% (11/8)	35.7% (11/1)	37.8% (11/8)	44.2% (10/25)	34.2% (10/25)
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
663	564	941	591	374	328	348

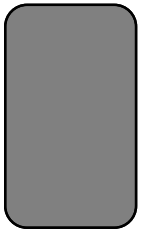
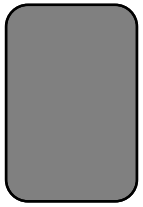
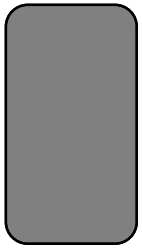
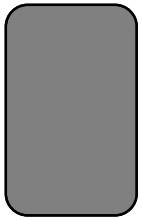
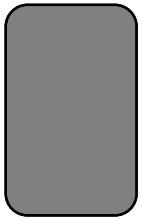
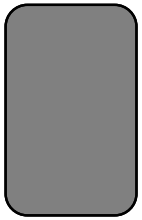
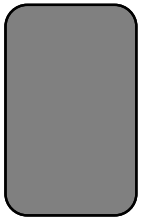
Geotube No.B5 60 ft. x 130 ft.	Geotube No.B6 60 ft. x 130 ft.	Geotube No. 15 60 ft. x 60 ft.	Geotube No. 16 60 ft. x 106 ft.	Geotube No. 17 60 ft. x 60 ft.	Geotube No. 18 60 ft. x 176 ft.	Geotube No. 19 60 ft. x 145
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
10/18/04	10/18/04	10/18/04	10/19/04	10/21/04	10/21/04	10/28/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
POG2	POG2	POG2	POG2	POG2	POG2	POG2
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
29.2% (11/8)	42.2% (11/8)	34.7% (10/25)	34.4% (11/1)	24.2% (10/25)	25.5% (11/1)	26.2% (11/1)
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
453	701	210	424	310	484	752

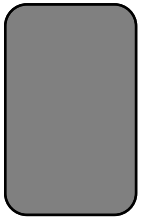
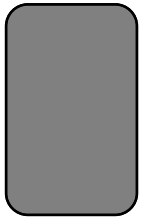
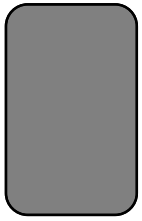
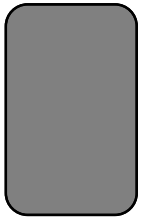
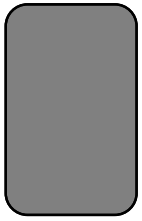
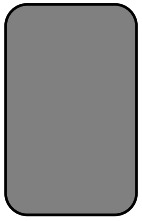
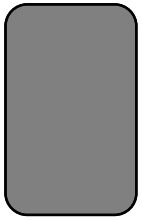
Geotube No. 20 60 ft. x 40 ft.	Geotube No. B7 60 ft. x 130 ft.	Geotube No. B8 60 ft. x 101 ft.	Geotube No. B9 60 ft. x 130 ft.	Geotube No. B10 60 ft. x 130 ft.	Geotube No. C1 60 ft. x 116 ft.	Geotube No. C2 60 ft. x 116 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
10/29/04	10/25/04	10/25/04	11/1/04	11/1/04	10/26/04	10/27/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
POG2	POG2	POG2	POG2	POG2	POG2	POG2
Status	Status	Status	Status	Status	Status	Status
Active	Retired	Retired	Active	Active	Active	Active
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
unable to sample	27.3% (11/1)	*unable to sample*	*unable to sample*	*unable to sample*	27.8% (11/8)	26.7% (11/1)
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
166	615	262	539	539	527	541

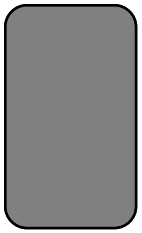
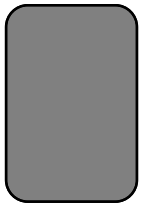
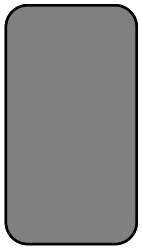
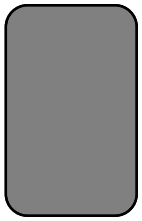
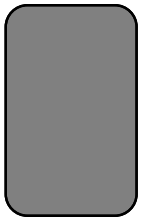
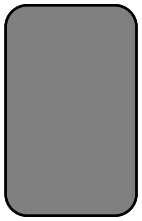
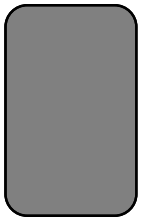
INFRASTRUCTURE ALTERNATIVES

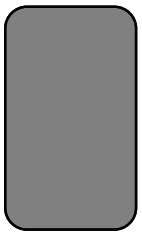
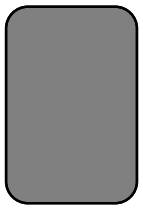
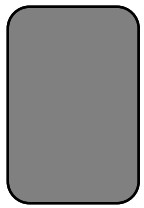
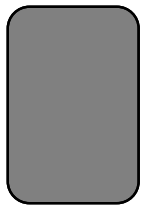
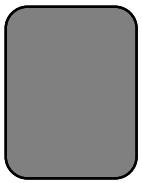
Geotube No. 1 60 ft. x 60 ft.	Geotube No. 2 60 ft. x 80 ft.	Geotube No. 3 60 ft. x 145 ft.	Geotube No. 4 60 ft. x 145 ft.	Geotube No. 5 60 ft. x 145 ft.	Geotube No. 6 60 ft. x 145 ft.	Geotube No. 7 60 ft. x 145 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
9/9/04	8/31/04	9/8/04	9/10/04	9/10/04	9/21/04	10/1/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	D, E, A-4	D, E, A-4, A-8	D, E, A-4, A-8	D, E, A-4, A-8	A-4, A-8	A-4, A-8
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
68.7% (11/15)	60.5% (11/29)	55.6% (12/2)	59.1% (10/1)	61.9% (11/30)	78.0% (11/15)	46.1% (12/1)

Geotube No. 8 60 ft. x 80 ft.	Geotube No. 9 60 ft. x 145 ft.	Geotube No. 10 60 ft. x 145 ft.	Geotube No. 11 60 ft. x 145 ft.	Geotube No. 12 60 ft. x 145 ft.	Geotube No. 13 60 ft. x 145 ft.	Geotube No. 14 60 ft. x 145 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
9/1/04	9/1/04	9/2/04	9/7/04	9/12/04	9/16/04	9/28/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	D, E	D, E	D, E, A-4, A-8	A-4, A-8	A-4, A-8	A-4, A-8
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
56.0% (12/9)	52.5% (12/9)	48.7% (12/9)	42.7% (12/9)	78.7% (11/16)	83.4% (11/16)	68.2% (11/16)

Geotube No. D1 60 ft. x 175 ft.	Geotube No. D2 60 ft. x 116 ft.	Geotube No. D3 60 ft. x 200 ft.	Geotube No.B1 60 ft. x 130 ft.	Geotube No.B2 60 ft. x 130 ft.	Geotube No.B3 60 ft. x 130 ft.	Geotube No.B4 60 ft. x 130 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
10/4/04	10/6/04	10/8/04	10/11/04	10/11/04	10/11/04	10/11/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
54.9% (12/9)	58.9% (12/9)	40.9% (12/9)	35.1% (12/9)	42.2% (12/9)	31.9% (12/9)	29.4% (12/9)

Geotube No.B5 60 ft. x 130 ft.	Geotube No.B6 60 ft. x 130 ft.	Geotube No. 15 60 ft. x 60 ft.	Geotube No. 16 60 ft. x 106 ft.	Geotube No. 17 60 ft. x 60 ft.	Geotube No. 18 60 ft. x 176 ft.	Geotube No. 19 60 ft. x 145
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
10/18/04	10/18/04	10/18/04	10/19/04	10/21/04	10/21/04	10/28/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
POG2	POG2	POG2	POG2	POG2	POG2	POG2
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
38.5% (12/9)	30.7% (12/9)	44.9% (12/9)	35.0% (12/9)	27.3% (12/9)	30.8% (12/9)	30.8% (12/9)

Geotube No. 20 60 ft. x 40 ft.	Geotube No. B7 60 ft. x 130 ft.	Geotube No. B8 60 ft. x 101 ft.	Geotube No. B9 60 ft. x 130 ft.	Geotube No. B10 60 ft. x 130 ft.	Geotube No. C1 60 ft. x 116 ft.	Geotube No. C2 60 ft. x 116 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
10/29/04	10/25/04	10/25/04	11/1/04	11/1/04	10/26/04	10/27/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
POG2	POG2	POG2	POG2	POG2	POG2	POG2
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
33.5% (12/9)	27.6% (12/9)	29.8% (12/9)	34.1% (12/9)	32.6% (12/9)	27.0% (12/9)	29.3% (12/9)

Geotube No. B11 60 ft. x 145 ft.	Geotube No. C3 60 ft. x 116 ft.	Geotube No. C4 60 ft. x 116 ft.	Geotube No. C5 60 ft. x 116 ft.	Geotube No. E1 60 ft. x 106 ft.
				
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
11/4/04	11/3/04	11/5/04	12/1/04	11/2/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
POG2	POG2	POG2	A-8	POG2
Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
30.7% (12/9)	32.3% (12/9)	31.8% (12/9)	26.5% (12/9)	33.3% (12/9)

Appendix B-2
Foth & Van Dyke Tube Sampling Data

APPENDIX B-2

Foth & Van Dyke Tube Sampling Data

1	60 x 60	D, E	09/12/04	68.7 (11/15/04)	51.4 (11/23/04)	170
2	60 x 80	D, E, A-4	09/16/04	60.5 (11/29/04)	50.4 (11/23/04)	200
3	60 x 145	D, E, A-4, A-8	10/11/04	55.6 (11/30,12/2)	43.3 (11/23/04)	800
4	60 x 145	D, E, A-4, A-8	10/08/04	59.1 (10/1/04)	61.1 (10/11/04)	86
5	60 x 145	D, E, A-4, A-8	10/11/04	61.9 (11/30/04)	56.0 (12/03/04)	1000
6	60 x 145	A-4, A-8	10/13/04	78.0 (11/15/04)	64.0 (12/03/04)	590
7	60 x 145	A-4, A-8	10/11/04	51.3 (12/1/04)	35.0 (12/03/04)	3200
8	60 x 80	D, E	09/12/04	57.3 (11/29/04)	47.0 (11/23/04)	170
9	60 x 145	D, E	09/12/04	56.3 (11/29/04)	51.0 (12/07/04)	120
10	60 x 145	D, E	09/12/04	48.6 (12/2/04)	49.7 (12/28/04)	160
11	60 x 145	D, E, A-4, A-8	10/11/04	(12/2/04)	28.8 (12/03/04)	5100
12	60 x 145	A-4, A-8	10/06/04	78.7 (11/16/04)	82.0 (12/28/04)	110
13	60 x 145	A-4, A-8	10/06/04	83.4 (11/16/04)	69.9 (12/28/04)	440
14	60 x 145	A-4, A-8	10/08/04	68.2 (11/16/04)	61.0 (12/06/04)	970
15	60 x 60	POG2	10/21/04	48.8 (12/2/04)	43.6 (12/28/04)	1700
16	60 x 106	POG2	10/22/04	31.7 (12/1/04)	46.0 (12/03/04)	1100
17	60 x 60	POG2	10/22/04	26.2 (12/2/04)	28.3 (12/28/04)	5400
18	60 x 176	POG2	10/28/04	(12/2/04)	28.0 (12/03/04)	7000
19	60 x 145	POG2	10/29/04	27.7 (12/2/04)	29.0 (12/28/04)	6300
20	60 x 40	POG2	11/05/04	31.8 (11/29/04)	32.5 (11/23/04)	4200
B1	60 x 130	A-8, POG2	10/22/04	36.4 (12/2/04)	25.0 (12/06/04)	5800
B2	60 x 130	A-8, POG2	10/22/04	42.0 (12/2/04)	34.0 (12/06/04)	2400
B3	60 x 130	A-8, POG2	10/22/04	34.1 (12/2/04)	31.4 (12/28/04)	3800
B4	60 x 130	A-8, POG2	10/22/04	32.6 (12/2/04)	27.0 (12/07/04)	4600
B5	60 x 130	POG2	11/08/04	29.7 (12/1/04)	34.0 (12/03/04)	4300
B6	60 x 130	POG2	11/08/04	31.2 (11/30/04)	30.0 (12/03/04)	5000
B7	60 x 130	POG2	10/26/04	28.9 (12/2/04)	27.0 (12/06/04)	16000
B8					26.0 (12/06/04)	5200
B9	60 x 130	POG2	11/04/04	32.7 (12/2/04)	30.0 (12/06/04)	4200
B10	60 x 130	POG2	11/04/04	35.9 (12/2/04)	31.7 (12/28/04)	3300
B11	60 x 145	POG2	11/08/04	30.6 (12/2/04)	28.0 (12/03/04)	5100
C1	60 x 116	POG2	10/29/04	29.6 (12/2/04)	26.0 (12/07/04)	6200

APPENDIX B-2

Foth & Van Dyke Tube Sampling Data

C2	60 x 116	POG2	10/29/04	28.1 (12/2/04)	28.0 (12/06/04)	5900
C3	60 x 116	POG2	11/08/04	29.2 (12/2/04)	30.0 (12/06/04)	5400
C4	60 x 116	POG2	11/08/04	31.2 (12/2/04)	26.0 (12/06/04)	4800
C5	60 x 116	A-8	12/02/04		26.0 (12/06/04)	1800
D1	60 x 175	A-8, POG2	10/11/04	45.0 (12/2/04)	47.0 (12/06/04)	1600
D2	60 x 116	A-8, POG2	10/22/04	43.7 (12/2/04)	38.0 (12/03/04)	2500
D3	60 x 200	A-8, POG2	10/22/04	44.6 (12/2/04)	35.0 (12/03/04)	2800
E1	60 x 106	POG2	11/08/04	31.1 (12/2/04)	30.0 (12/07/04)	5000
tubelet 1AA	60 x 30	POG2	---	64.5 (11/15/04)	46.5 (11/23/04)	2300
tubelet 1BB	60 x 30	POG2	---	36.4 (11/29/04)	33.2 (11/23/04)	5100
tubelet 2A	60 x 30	POG2	---	27.3 (11/29/04)	28.3 (11/23/04)	8300
tubelet 1A	60 x 30	A	---	73.6 (10/13/04)	28.3 (11/23/04)	
tubelet 1B	60 x 30	A	---	59.1 (10/13/04)	28.3 (11/23/04)	
tubelet 3A	60 x 30	A	---	---	26.0 (12/07/04)	910

Appendix B-3
Geotextile Tube Sampling

Lower Fox River OU1 2004 Remedial Action: Geotube® Data
11/29 through 12/3

Geotube Number	Diameter (ft.) x Length (ft.)	Date placed in service	Contains Deposit(s)	Date taken out of Service	Percent Solids (sample date)	Percent Solids by En Chem Sample Date	PCB conc. (ug/kg) En Chem	Percent Solids from Truck Grabs run by GW Partners (Sample Date)	Percent Solids Calculation				Notes	
									Front	Mid	Back	Average (highlighted = weighted)		
1	60 x 60	9/9/04	D, E	09/12/04	68.7 (11/15/04)	51.4 (11/23/04)	170	55.5 (12/09/04)					No longer sampled.	
2	60 x 80	8/31/04	D, E, A-4	09/16/04	60.5 (11/29/04)	50.4 (11/23/04)	200	53.6 (12/15/04)	63.2%		55.0%	60.5%	Bulk of sediment in front.	
3	60 x 145	9/8/04	D, E, A-4, A-8	10/11/04	55.6 (11/30,12/2)	43.3 (11/23/04)	800	46.1 (12/17/04)	66.2%	44.6%	45.3%	55.6%	Bulk of sediment in front.	
4	60 x 145	9/10/04	D, E, A-4, A-8	10/08/04	59.1 (10/1/04)	61.1 (10/11/04)	86	52.7 (12/22/04)					No longer sampled.	
5	60 x 145	9/10/04	D, E, A-4, A-8	10/11/04	61.9 (11/30/04)	56.0 (12/03/04)	1000	50.8 (12/27/04)	74.2%	56.6%	42.4%	61.9%	Bulk of sediment in front.	
6	60 x 145	9/21/04	A-4, A-8	10/13/04	78.0 (11/15/04)	64.0 (12/03/04)	590	51.9 (12/27/04)*					No longer sampled.	* Sample was a mixture of Geotube 6 , B6 and B5.
7	60 x 145	10/1/04	A-4, A-8	10/11/04	51.3 (12/1/04)	35.0 (12/03/04)	3200	45.5 (1/5/05)*	65.2%	37.6%	37.0%	51.3%	Bulk of sediment in front.	* Sample was a mixture of Geotubes B5 and 7.
8	60 x 80	9/1/04	D, E	09/12/04	57.3 (11/29/04)	47.0 (11/23/04)	170	51.8 (12/13/04)	62.6%		46.7%	57.3%	Bulk of sediment in front.	
9	60 x 145	9/1/04	D, E	09/12/04	56.3 (11/29/04)	51.0 (12/07/04)	120	52.2 (2/3/05)	63.5%	52.8%	45.2%	56.3%	Bulk of sediment in front.	
10	60 x 145	9/2/04	D, E	09/12/04	48.6 (12/2/04)	**49.7 (12/28/04)**	**160**	46.4 (2/15/05)*			48.6%	48.6%	Bulk of sediment in front; affected by 12/1 dredging.	* Sample was a mixture of Geotubes 10,C1,B4,B3,and E1.
11	60 x 145	9/7/04	D, E, A-4, A-8	10/11/04	(12/2/04)	47.0 (12/03/04)	-	44.6 (2/16/05)			47.7%	47.7%	Bulk of sediment in front; affected by 12/1 dredging.	
12	60 x 145	9/12/04	A-4, A-8	10/06/04	78.7 (11/16/04)	**82.0 (12/28/04)**	**110**	78.9 (3/2/05)					No longer sampled.	
13	60 x 145	9/16/04	A-4, A-8	10/06/04	83.4 (11/16/04)	**69.9 (12/28/04)**	**440**						No longer sampled.	
14	60 x 145	9/28/04	A-4, A-8	10/08/04	68.2 (11/16/04)	61.0 (12/06/04)	970						No longer sampled.	
15	60 x 60	10/18/04	POG2	10/21/04	48.8 (12/2/04)	**43.6 (12/28/04)**	**1700**		48.8%			48.8%	Affected by 12/1 dredging.	
16	60 x 106	10/19/04	POG2	10/22/04	31.7 (12/1/04)	46.0 (12/03/04)	1100	48.7 (1/13/05)		31.7%		31.7%	Decreased 8%; will be re-sampled today.	
17	60 x 60	10/21/04	POG2	10/22/04	26.2 (12/2/04)	**28.3 (12/28/04)**	**5400**				26.2%	26.2%	Affected by 12/1 dredging.	
18	60 x 176	10/21/04	POG2	10/28/04	(12/2/04)	28.0 (12/03/04)	7000	35.7(1/11/05)*	29.9%	30.0%	28.4%	29.4%	Homogenous throughout.	* Sample was a mixture of Geotubes 18, and B11.
19	60 x 145	10/28/04	POG2	10/29/04	27.7 (12/2/04)	**29.0 (12/28/04)**	**6300**	39.6 (2/1/05)*	27.4%		28.0%	27.7%	Material homogenous; affected by 12/1 dredging.	* Sample was a mixture of Geotubes B10, C4 and 19.
20	60 x 40	10/19/04	POG2	11/05/04	31.8 (11/29/04)	32.5 (11/23/04)	4200	40.8 (12/14/04)	30.0%		33.6%	31.8%	Material homogenous.	
B1	60 x 130	10/11/04	A-8, POG2	10/22/04	36.4 (12/2/04)	25.0 (12/06/04)	5800	35.3 (3/5/05)	36.2%	34.3%	38.7%	36.4%	Material homogenous; affected by 12/1 dredging.	
B2	60 x 130	10/12/04	A-8, POG2	10/22/04	42.0 (12/2/04)	34.0 (12/06/04)	2400	42.4 (2/24/05)	35.6%	50.9%	39.4%	42.0%	Affected by 12/1 dredging.	
B3	60 x 130	10/12/04	A-8, POG2	10/22/04	34.1 (12/2/04)	**31.4 (12/28/04)**	**3800**	46.2 (2/15/05)*			34.1%	34.1%	Material homogenous; affected by 12/1 dredging.	*Sample is a mixture of Geotubes 10, B3, C1, and E1.
B4	60 x 130	10/12/04	A-8, POG2	10/22/04	32.6 (12/2/04)	27.0 (12/7/04)	4600	48.4 (2/8/05)*	38.2%	31.8%	27.9%	32.6%	Material homogenous; affected by 12/1 dredging.	* Sample was a mixture of geotubes B4, B9, 10, C1 and 9.
B5	60 x 130	10/18/04	POG2	11/08/04	29.7 (12/1/04)	34.0 (12/03/04)	4300	51.9 (1/4/05)*	28.6%	29.5%	30.9%	29.7%	Material homogenous throughout.	* Sample was a mixture of Geotube 6, B5 and 7.
B6	60 x 130	10/18/04	POG2	11/08/04	31.2 (11/30/04)	30.0 (12/03/04)	5000	49.7 (12/29/04) *	34.0%	29.4%	30.3%	31.2%	Material homogenous throughout.	* Sample was a mixture of Geotube 6 and B6
B7	60 x 130	10/25/04	POG2	10/26/04	28.9 (12/2/04)	27.0 (12/6/04)	16000		28.8%	30.1%	27.8%	28.9%	Material homogenous; affected by 12/1 dredging.	
B8	60 x 100					26.0 (12/06/04)	5200							
B9	60 x 130	11/1/04	POG2	11/04/04	32.7 (12/2/04)	30.0 (12/06/04)	4200	45.3 (1/27/05)*	29.6%	36.0%	32.4%	32.7%	Material homogenous; affected by 12/1 dredging.	* Sample was a mixture of geotubes B9 and C4.
B10	60 x 130	11/1/04	POG2	11/04/04	35.9 (12/2/04)	**37.7 (12/28/04)**	**3300**	45.8 (2/3/05)*	40.2%		31.6%	35.9%	Material homogenous; affected by 12/1 dredging.	* Sample was a mixture of geotubes B10, 19 and C5.
B11	60 x 145	11/4/04	POG2	11/08/04	30.6 (12/2/04)	28.0 (12/03/04)	5100	39.9 (1/12/05)*	31.2%	32.2%	28.4%	30.6%	Material homogenous.	* Sample was a mixture of Geotubes B11, 18, 4,5,6,7,and 16
C1	60 x 116	10/26/04	POG2	10/29/04	29.6 (12/2/04)	26.0 (12/7/04)	6200	46.4 (2/15/05)*	28.3%	31.4%	29.2%	29.6%	Material homogenous; affected by 12/1 dredging.	* Sample was a mixture of Geotubes 10, C1, B4, B3 and E1.
C2	60 x 116	10/27/04	POG2	10/29/04	28.1 (12/2/04)	28.0 (12/06/04)	5900	30.7 (2/16/05)	29.6%	25.3%	29.4%	28.1%	Material homogenous; affected by 12/1 dredging.	
C3	60 x 116	11/3/04	POG2	11/08/04	29.2 (12/2/04)	30.0 (12/6/04)	5400	39.2 (3/2/05)	29.3%		29.1%	29.2%	Material homogenous; affected by 12/1 dredging.	
C4	60 x 116	11/5/04	POG2	11/08/04	31.2 (12/2/04)	26.0 (12/06/04)	4800	45.3 (1/27/05)*	31.3%		31.0%	31.2%	Material homogenous; affected by 12/1 dredging.	* Sample was a mixture of B9 and C4.
C5	60 x 116	12/1/04	A-8	12/02/04		26.0 (12/06/04)	1800	50.1 (2/3/05) *					New Tube, Not Sampled	* Sample was a mixture of geotubes B10 and C5.
D1	60 x 175	10/4/04	A-8, POG2	10/11/04	45.0 (12/2/04)	47.0 (12/06/04)	1600		36.2%	40.4%	58.5%	45.0%	Material homogenous; affected by 12/1 dredging--least affected in back.	
D2	60 x 116	10/6/04	A-8, POG2	10/22/04	43.7 (12/2/04)	38.0 (12/03/04)	2500	43.0 (1/24/05)*	35.7%	39.9%	55.6%	43.7%	Increased 6%.	* Sample was a mixture of Geotubes D2 and D3.
D3	60 x 200	10/8/04	A-8, POG2	10/22/04	44.6 (12/2/04)	35.0 (12/03/04)	2800	40.5 (1/21/05)*	36.7%	62.5%	34.5%	44.6%	Center is gravel	* Sample was a mixture of Geotubes D3 and D2
E1	60 x 106	11/2/04	POG2	11/08/04	31.1 (12/2/04)	30.0 12/07/04)	5000	45.9 (2/15/05)*	29.7%		32.4%	31.1%	Material homogenous; affected by 12/1 dredging.	* Sample was a mixture of Geotubes 10, B4, C1 and E1.
tubelet 1AA	60 x 30	---	POG2	---	-	46.5 (11/23/04)	2300	40.2 (12/08/04)					No longer sampled.	
tubelet 1BB	60 x 30	---	POG2	---	36.4 (11/29/04)	33.2 (11/23/04)	5100	50.7 (12/08/04)		36.4%		36.4%	Increased 6%.	
tubelet 2A	60 x 30	---	POG2	---	27.3 (11/29/04)	28.3 (11/23/04)	8300	39.5 (12/16/04)		27.3%		27.3%	Decreased 2% (within standard deviation)	
tubelet 1A	60 x 30	---	A	---	73.6 (10/13/04)			-					No longer sampled.	
tubelet 1B	60 x 30	---	A	---	59.1 (10/13/04)			-					No longer sampled.	
tubelet 3A	60 x 30	---	A	---	---	26.0 (12/07/04)	910	-	---	---	---	---	New Tube, Not Sampled	

Appendix C

Geotextile Tube Dewatering and Water Treatment System Sampling Plan and Resulting Data

Dredge Testing and Sampling
and
Analysis Program Procedures for Geotextile Tube Dewatering
Lower Fox River OU1 2004 Remedial Action

SECTION 1

Introduction

The remedy selected in the Lower Fox River (LFR) Operating Unit 1 (OU1) Record of Decision specifies the removal and disposal of PCB impacted sediments. The primary goals of the 2004 Remedial Action (RA) are:

- To evaluate full-scale operations, including:
  - Dredging
  - Sediment dewatering using geotextile tubes
  - Water treatment
  - Capping methods
- To optimize production rates using full-scale equipment.

A schematic process flow diagram of the Remedial Action processes and sampling locations is included as Figure 1. The physical location of much of the outdoor piping and equipment layout was finalized on September 3rd. The type (composite or grab) of sample and the appropriate test procedure will be determined for several of the samples based on operating experience. Two process flows that carry solids from the treatment process back to the Geotubes® are described as "returns". Of these, the sludge tank return is a necessary result of running the sandfloat treatment unit. It will be part of routine operations.

Conversely, the "carriage water return" is essentially an emergency bypass. It will be used only when solids are not being effectively removed by the sandfloat unit and the sandfloat effluent must be returned to the tubes rather than being processed forward into the granular activated carbon (GAC) units. For this reason, the sludge return flow can be measured by the difference between the flow into the plant and the discharge from the plant. Plant water used for process purposes (polymer makeup water, washdown, *etc.*) all flows back to the geotube laydown area and remains in the system until it is finally discharged as treated effluent.

SECTION 2

Purpose

The purpose of this document is to establish data objectives for dredging, sediment dewatering, polymer dosing, and wastewater treatment effectiveness. This data will then be used to evaluate the effectiveness and optimize the production rates of the RA. Additionally, this data will be used to refine the RA design for 2005 and beyond.

The sampling and testing discussed in this plan are intended only for internal process control and the evaluation of the dredging and Geotubes® dewatering parameters and effectiveness. **This sampling and testing is in addition to the sampling and testing for the environmental monitoring identified in the Lower Fox River OU1 Remedial Action-2004 RA Work Plan of May 2004.**

It is important to view the sampling and testing plans in perspective. Each GeoTube® holds several hundred thousand gallons of dredge discharge and ultimately, several thousand cubic yards of sediment. To evaluate the effectiveness of the RA, sufficient data must be collected to perform calculations to a degree of accuracy of several thousand gallons or several hundred cubic yards.

SECTION 3

Data Objectives

In order to evaluate the effectiveness and optimize the production rates during the RA, sufficient data will need to be collected from specific locations throughout the process. The following is a list of data objectives that will be needed to evaluate the effectiveness of the system:

- Measurement of dredge and sand placement positioning accuracy.
- Determination of effectiveness of different types of cutterheads.
- Measurement of dredge productivity.
- Quantification of surface water quality around dredge.
- Determination of polymer effectiveness.
- Determination of solids removal rate.
- Evaluation of the treatment accomplished in the Geotubes®.
- Determination of water treatment system effectiveness.

These data objectives provide the framework for the dredge testing and sampling program, and consequently the information to evaluate the effectiveness of the system and optimize production rates. A generalized site flow diagram including color-coded data objectives and sample collection locations is included as Figure 1. A color-coded sampling program matrix linking data objectives with sample points and analyses is included as Table 1. A summary of sample points, sample type and sample frequency is included as Table 2. Standard Operating Procedures for each sample collection task are included in Appendix A.

Samples collected for percent solids, total solids, total suspended solids and settleable solids will be analyzed on-site for process control purposes unless noted otherwise. A certified laboratory will analyze samples collected to document system performance.

Dredge and Sand Placement Positioning Accuracy

Four separate areas within Deposit A will be dredged reflecting various conditions that will be encountered in other deposits. These include materials that are both predominately granular and organic. Heavily vegetated areas are also included. Dredging of POG 2 is included after the Deposit A dredging because the sediment in this area is highly organic and will be the most difficult to dewater. An acre in Deposit E will be the location for testing of sand placement techniques.

An RTK GPS positioning system will be used in all cases. Daily, a bathymetric survey using a dual frequency sonar system will be completed before and after the dredging activity. These results will be compared to the dredge and sand placement positioning system to determine accuracy of the system, and will be routinely checked and calibrated using a sounding bar. Adjustments may be made to the system to achieve a higher degree of accuracy.

At the completion of all dredging and sand placement, and independent bathymetric survey will be completed and compared to the results of the previous surveys

Effectiveness of Different Types of Cutterheads

Two different cutterheads will be used. Each cutterhead will be tested for the ability to dredge the sediments and vegetation effectively. In addition, impact on dredging accuracy and productivity will be measured. The impact on the water quality with both cutterheads will also be monitored.

Dredge Productivity

The daily bathymetric survey will develop the data necessary to calculate *in-situ* sediment volume removed. The accuracy of the bathymetric survey will be checked by comparing it to the post dredge survey. This will be compared to the volume of sediment measured in the dredge discharge pipe. Characterization of the flow from the dredge will be determined to evaluate the solids content of the dredge discharge, to develop a solids balance for the overall operation, and to provide input data for the operation of the treatment system. Flow rate and solids contained in the dredge discharge will be used to determine the amount of solids and the rate of solids coming into the system. The data from this sample point will be combined with data from sample points SP-3 through SP-9 to determine the effectiveness of the polymer dosing.

Surface Water Quality

Solids disturbance and dispersion from the dredge during operation is a potential concern. During dredge operation, a real time turbidity meter will be employed to measure the disturbance of the dredge. Initially, in a deposit, surface water samples will be collected every four hours. The total suspended solids (TSS) of these samples will be performed on-site to correlate TSS to turbidity. Once a day, a sample will be collected and split to determine TSS both on-site and at a laboratory to correlate the data. Turbidity will be used as a real time indicator to monitor the potential impact of sediment disturbance.

For evaluation purposes, the TSS and turbidity results will be compared to the dredge and water treatment plant operators' logs to determine what conditions were being experienced at the time of a reading. The purpose for this set of data will be to evaluate the likelihood of PCB dispersion during dredging and to demonstrate the sediment removal occurs without unnecessary solids losses.

Polymer Effectiveness

Polymer effectiveness and optimization will be determined by the comparison of the rate of flow through the system (time to move a gallon of water from the dredge to the discharge) and the percent of total solids removed. The flow rate will be measured using totalized readings from three fixed flow meters. Return flow to the Geotubes® will be measured by difference from the carriage water sump flow meter and the discharge flow meter.

Polymer optimization will be accomplished by short-term trials using small Geotubes®. Data collection for these trials will primarily entail visual observation and stopwatch timing.

Solids Removal

The majority of the solids removal is to occur in the Geotubes®. A rigorous solids balance throughout the process is needed to accomplish this objective. The solids balance is given by:

$$S_{in} = S_{tube} + S_{cw} + S_{dl}$$

Where:

S_{in} = total solids into the system
S_{tube} = total solids accumulated in the geotextile tubes
S_{cw} = solids that have moved through the tubes to the carriage water return
S_{dl} is the dead load of solids that accumulates in the gravel on the dewatering pad

Of these factors, only the deadload cannot be measured. By definition, solids that remain in the gravel bed are removed from the system. Descriptions of the sample collection points for the solids information are provided in Section 4.

Water Treatment Effectiveness – Geotube® Area

While the primary function of the Geotubes® is to remove solids from the dredge discharge, the percentage of solids removal in the Geotubes® needs to be determined. This will be accomplished by a mass balance calculation using the flow and solids concentration from the dredge and the flow and solids concentration in the discharge from the carriage water sump.

SECTION 4

Sample Collection Locations

Eleven data collection points have been identified. Descriptions of the data collection equipment, sample type and frequency, sample handling and analysis, and data collection are described in the following sections.

Percent solids (%S) and total solids (TS, in mg/L) will be determined for highly turbid samples. These samples are expected to be obtained from locations SP-2, SP-6 and possibly SP-8 and SP-9. Total suspended solids (TSS, in mg/L) will be determined for relatively clear samples. These samples will be obtained from locations SP-5, SP-7, SP-10, SP-11, and possibly SP-8 and SP-9.

Sample Location SP-1

Grab samples will be collected every four hours during dredge operations. Turbidity readings will also be recorded at the time of sample collection. Each sample will be analyzed on-site for total suspended solids (TSS). One sample per day will be split and analyzed on-site and by a certified laboratory. The frequency of analysis may be reduced during the trial if sufficient data are generated to confirm that no solids losses are occurring.

Sample Location SP-2

This sample point will consist of measuring and recording flow using an in-line magnetic flow meter, and collection of composite samples for percent solids (%S), total solids (TS), settleable solids (SS), grain size (GS), percent organic material and PCBs (**Table 2**). PCB content will be determined on the solids in the sample. Composite samples will be collected at 10-minute intervals using an automated sampler, such as an ISCO, in a common bucket. Over a four-hour composite interval, 24 discrete samples will be added to the sample collection bucket. The sample bucket will be emptied as necessary during initial dredging operations. After the dredge operation and polymer system have been optimized, samples will be collected four times daily.

Sample Location SP-3

This sample will consist of the collection of grab samples to be analyzed for SS (**Table 2**). Samples will be collected as needed during polymer optimization. After the polymer system has been optimized, a minimum of one sample will be collected daily. Grab samples will be collected from a sample port installed downstream of the polymer injection system.

Data Collection Location SP-4

This sample point will consist of measuring and recording tube heights. Tube height will be combined with measurements of total solids in accumulated in each tube (SP-6) to determine the volume of sediment removed by the Geotube® system.

Individual tubes will either be in active use or consolidation mode. Measurement of tube heights during the active use stage will be more frequent than during the consolidation stage. At a minimum, tube height measurements will be collected at start-up and shut-down, or daily for 16-hour per day operations. The frequency of tube height measurements for active tubes will vary with the amount of material pumped into the tube. Measurements may be collected on an hourly basis during active pumping.

Tube height measurements will be made at three or four points along the tube, depending on the length of the tube. Measurements will be made at each fill port (either two or three per tube) and at the highest point on the tube. The measurement of tube height should be accurate within a half foot. The measurement is made using a hand sight and a calibrated rod from an uneven gravel surface. What is important is if the tube is six feet high or three feet high, not 6.27 or 6.33 feet high.

Measurement of tube heights may be discontinued when the contents of the tube are fully consolidated (*i.e.*, no change is measured from one day to the next), or when a second tube is stacked on top of a lower tube.

Sample Location SP-5

This sample point will consist of collection of weep samples (liquid coming from the geotextile tube fabric). Weep samples will be analyzed for TSS (**Table 2**) and for PCBs on an as requested basis. PCBS will be measured on the liquid. Weep samples can only be collected from active tubes. These samples will be collected by filling a sample bottle from numerous locations around the tube from the water dripping or sheeting off the tube. A minimum of one sample per day will be collected from tubes that exhibit sufficient weep filtrate to sample.

Sample Location SP-6

Samples of the solids that have settled in the Geotubes® will be collected from sample ports sewn into the top of each tube. Samples will be analyzed for %S, TS, GS and percent organic material (**Table 2**). Samples will be collected over several weeks during and after filling. Sample frequency will be determined by empirical observations of the solids accumulation progress. Depending on circumstances and other observations, samples collected will range from a composite core over the height of the tube contents to discrete samples of various strata collected using a casing pipe and a sample collection device appropriate for the solids content of the specific interval. A sample of solids collected when the tube is deemed full will be analyzed for PCB content.

Sample Location SP-7

This sample point will consist of measuring and recording flow from the carriage return sump and collecting samples of carriage water to be analyzed for TSS (**Table 2**). Samples for TSS will be collected twice per day. A sample for aqueous PCB analysis will be collected daily. Discrete samples will be collected using an automated sampling device such as an ISCO sampler.

Composite samples will be collected at 15-minute intervals using an automated sampler, such as an ISCO, in a common bucket. Over twelve-hour composite interval, 48 discrete samples will be added to the sample collection bucket. Data from this location will be to determine polymer effectiveness, the solids balance for the system, and to establish carriage water quality (**Figure 1** and **Table 1**).

Sample Location SP-8

This sample of sludge tank return water will be collected from an in-line sample port while the return pump is running. The sample will be analyzed for %S and TS or TSS as appropriate (**Table 2**). Flow back into the tubes through sludge tank return and the carriage water return will be determined by calculating the difference in flow into and out of the water treatment system.

Data from this location will be used in determining solids balance for the system (**Figure 1** and **Table 1**, Objective 6).

Sample Location SP-9

This sample of carriage water return water will be collected from an in-line sample port while the return pump is running (during upset conditions only). The sample will be analyzed for %S and TS or TSS as appropriate (**Table 2**). Flow back into the tubes through sludge tank return and the carriage water return will be determined by calculating the difference in flow into and out of the water treatment system. Data from this location will be used in determining solids balance for the system (**Figure 1** and **Table 1**, Objective 6).

Sample Location SP-10

This sample point will be used to characterize the Sandfloat unit effluent. The sample will be analyzed for TSS and PCBs (**Table 2**). Grab samples will be collected daily for TSS and daily for PCBs while the Sandfloat unit is running. Data from this location will be used in determining the effectiveness of the water treatment system (**Figure 1** and **Table 1**, Objective 8). Specifically, this sample point will determine the effectiveness of the polymer injection (post carriage water sump) and Sandfloat system to remove the solids and PCBs not removed in the Geotubes®.

Sample Location SP-11

Sample location SP-11 will be the granular activated carbon (GAC) lead unit effluent. The GACs are configured as two sets of two units. Samples will be collected from the east set and the west set. Data from this location will be used in determining the effectiveness of the lead unit and will enable the detection of a "break through" of PBCs from the unit. Detection of a PCB break through will result in bringing the lag unit on line and cleaning the lead unit. This sample point will consist of collecting a daily grab sample while the GAC unit is running to be analyzed for TSS and PCBs.

SECTION 5

Data Objective Outcomes

Completion of the Testing Program will provide the data to evaluate the following:

- Dredge and sand placement accuracy.
- Effectiveness of different types of cutterheads.
- Solids losses from the dredge operation.
- Dredge productivity in terms of flow and quantity of solids removed.
- Dewatering efficiency in the Geotubes® (primarily a measure of the effectiveness of the polymer).
- Solids retention in the Geotubes®.
- Solids removal and dewatering rate (flux through Geotubes®).
- Solids dewatering efficiency (solids content in Geotubes®).
- PCB removal by the Geotube® operation.
- PCB removal by the wastewater treatment process equipment.

Tables

TABLE 1
PILOT TUBE TRIAL
LOWER FOX RIVER (OU1) 2004 REMEDIAL ACTION
TOWN OF MENASHA, WI

OBJECTIVES	
1	Measurement of Dredge and Sand Placement Positioning Accuracy
2	Determination of Effectiveness of Dredge Cutterheads
3	Quantify Surface Water Quality Around Dredge
4	Measurement of Dredge Productivity
5	Determination of Polymer Effectiveness
6	Determination of Solids Removal Rate
7	Evaluation of Treatment Accomplished in Geotubes
8	Determination of Waste Treatment Effectiveness

SAMPLING PROGRAM

3.0 Sample Location SP-1
3.1 Historical Surface Water Characterization
3.2 Collect Surface Water Samples Near Dredge
for Total Suspended Solids, Turbidity

→ **Surface Water Monitoring**

4.0 Sample Location SP-2
4.1 Sample Dredge Effluent
for Flow, Total Solids, Settleable Solids, Grain Size, % Organic, PCBs

5.0 Sample Location SP-2, SP-3, SP-4, SP-5, SP-6, SP-7
5.1 Sample Dredge Effluent (see 2.1)
for Total Solids, Grain Size
5.2 Sample after Polymer Feed
for Total Solids, Settleable Solids, Grain Size

6.0 Sample Location SP-3, SP-4, SP-6, SP-7, SP-8, SP-9
6.1 Sample Tube Influent (see 3.2)
for Total Solids, Grain Size
6.2 Sample Weep from Tubes
for Total Solids, Grain Size
6.3 Measure Solids Accumulation in Tubes
measure Tube Height, Total Solids, Grain Size on material in tube
6.4 Sample Carriage Water Prior to Waste Treatment
for Flow, Total Solids, Total Suspended Solids, Grain Size
6.5 Sample Carriage Water Return
for Total Solids
6.6 Sample Sludge Tank Return
for Total Solids

→ **Polymer Effectiveness (Flux through Tubes)**

→ **Solids Balance**

$S_{in}=S_{tube}+S_{cw}+S_{dl}$

S_{in} -Solids into system
S_{tube} -Solids held in tube
S_{cw} -Solids in carriage water
S_{dl} -Dead load

7.0 Sample Location SP-7
7.1 Sample Carriage Water Prior to Waste Treatment (see 4.4)
for Total Solids, Grain Size, PCBs

8.0 Sample Location SP-7, SP-10, SP-11
8.1 Sample Carriage Water Prior to Waste Treatment (see 5.1)
for Flow, Total Solids, PCBs
8.2 Sample after Sandfloat Unit
for PCBs
8.3 Sample Lead GAC Effluent
for Flow, Total Suspended Solids, PCBs

→ **Waste Treatment Effectiveness**

TABLE 2
PILOT TUBE TRIAL
LOWER FOX RIVER (OU1) 2004 REMEDIAL ACTION
TOWN OF MENASHA, WI

SAMPLE POINT	SAMPLE TYPE	SAMPLE DISCRIPTION	SAMPLE TYPE AND FREQUENCY								
			TOTAL SOLIDS	TSS	SS	GRAIN SIZE	% ORGANIC MATERIAL	PCBs	TURBIDITY	TUBE HEIGHT	MERCURY
SP-1	Grab	Sample of river water		4					4		
SP-2[2]	Composite	Sample of Dredge Effulent Prior to Polymer Injection Includes Measurement of Flow[4]	8* / 2		8* / 2	8* / 2	8* / 2				
SP-3[3]	Grab	Sample of Dredge Effluent After Polymer Injection	8* / 2		8* / 2	8* / 2					
SP-4	Visual	Measurment of Tube Height								10	
SP-5	Grab	Sample of Weep out of Tube Fabric	1								
SP-6	Grab	Sample of Solids in Tubes[5]	1			1	1/week	1/week			
SP-7	Composite	Sample of Carriage Water Prior to Water Treatment Includes Measurement of Flow	2	2				1			
SP-8	Grab	Sample Return from Sludge Tank (from Water Treatment) Includes Measurement of Flow	1								
SP-9	Grab	Sample of Carriage Water Return (from Water Treatment) Includes Measurement of Flow	1								
SP-10	Grab	Sample of Sandfloat Effluent	2	2				1	1		
SP-11	Composite	Sample of Lead GAC Unit		1				1			1

Note: All sample frequancies are per day unless otherwise noted.

* - Hourly or as needed.

[1] - Analysis may include VOCs, semi-VOCs, metals and TCLP metals.

[2,3] - Samples will be collected hourly during start-up and twice daily after system has been optimized.

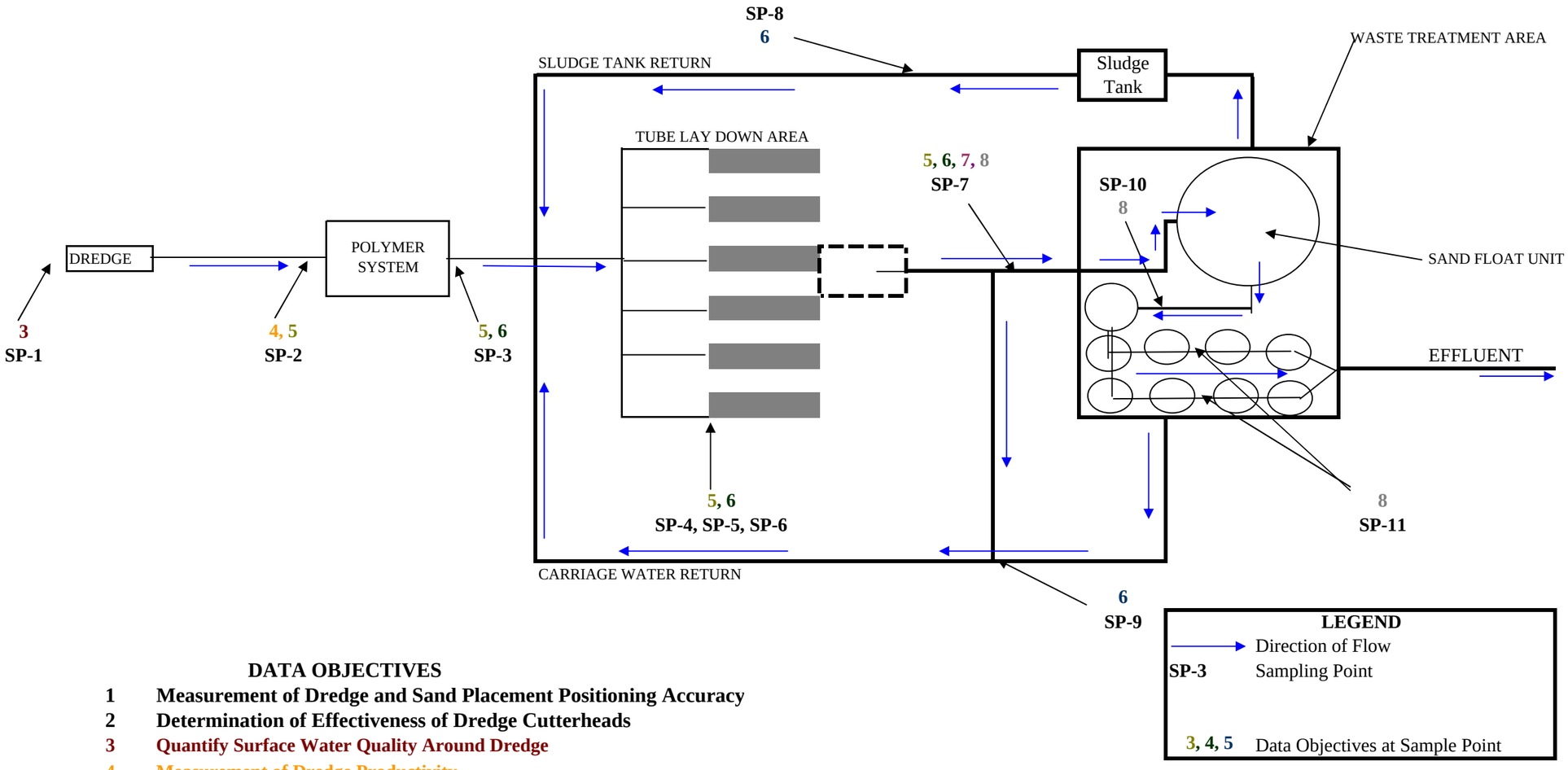
[4] - Flow measurement may be collected at the SP-3 location.

[5] - Sample frequency will be determined by field observations.

Figure

FIGURE 1
PILOT TUBE TRIAL
LOWER FOX RIVER (OU1) 2004 REMEDIAL ACTION
TOWN OF MENASHA, WI

SITE FLOW DIAGRAM



DATA OBJECTIVES

1 **Measurement of Dredge and Sand Placement Positioning Accuracy**
2 **Determination of Effectiveness of Dredge Cutterheads**
3 **Quantify Surface Water Quality Around Dredge**
4 **Measurement of Dredge Productivity**
5 **Determination of Polymer Effectiveness**
6 **Determination of Solids Removal Rate**
7 **Evaluation of Treatment Accomplished in Geotubes**
8 **Determination of Waste Treatment Effectiveness**

Resulting Data

Lower Fox River OU1 2004 Remedial Action
Geotube Volume, Received Flow (raw)
8-31-04 through 9-3-04

INFRASTRUCTURE ALTERNATIVES

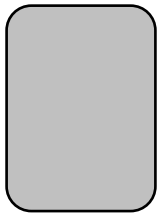
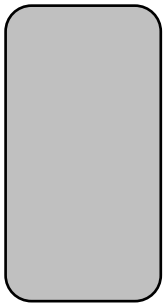
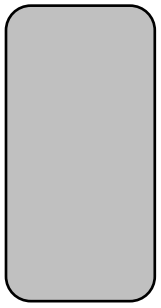
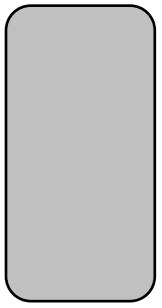
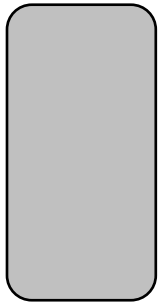
Sample Point 4 (SP-4): Measurement of Geotube® Height, Dredge Flow to Geotubes®

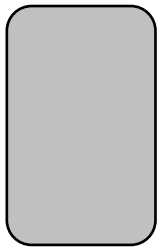
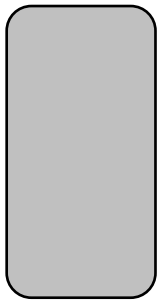
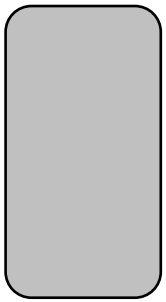
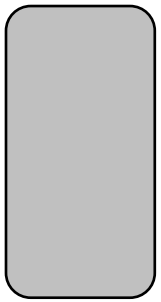
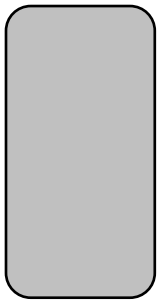
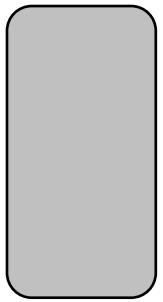
Legend	
	Dredge start
	Geotube online (valve open)
	Estimated dredge flow

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube® No. 1	Geotube® No. 2	Geotube® No. 3	Geotube® No. 4	Geotube® No. 5	Geotube® No. 6	Geotube® No. 8	Geotube® No. 9	Geotube® No. 10	Geotube® No. 11	Geotube® No. 12	Geotube® No. 13
			Height, feet											
8/31/04 22:50				0										
9/1/04 0:15				5.0										
9/1/04 9:00				2.0						4.5				
9/1/04 10:00				1.5						5.0				
9/1/04 10:30				1.5						5.5				
9/1/04 14:15														
9/1/04 14:45				4.0						4.0				
9/1/04 15:30	675			3.5						5.3				
9/1/04 16:00				3.5					0.0	5.5				
9/1/04 16:40				3.1				162000.0	0.5	4.3				
9/1/04 18:00				2.8					4.2	4.2				
9/1/04 20:00				3.3					3.2	4.1				
9/1/04 21:00				4.6					2.9	4.8				
9/1/04 22:05				4.2				37125.0	4.2	4.8				
9/1/04 23:00				6.0					3.5	4.3				

Lower Fox River OU1 2004 Remedial Action
Date: 9/1/04

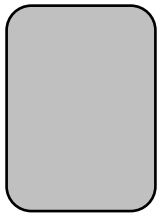
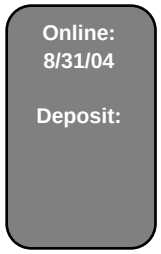
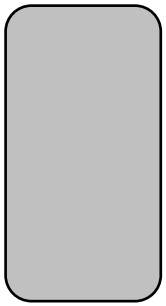
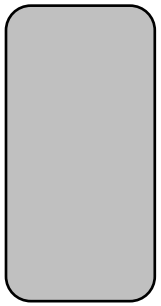
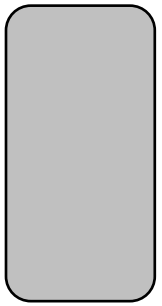
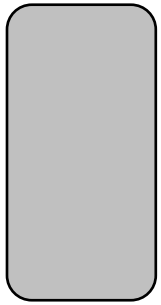
Geotube® Performance
Tier 1

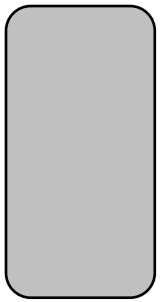
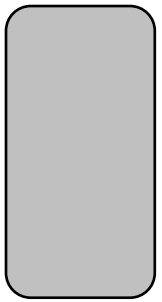
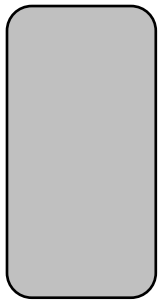
Geotube No. 1	Geotube No. 2	Geotube No. 3	Geotube No. 4	Geotube No. 5	Geotube No. 6	
Length, ft. 60	Length, ft. 80	Length, ft. 145	Length, ft. 145	Length, ft. 145	Length, ft.	
						
Total Volume, yds^3	Total Volume, yds^3 415	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Geotube Volume, yd^3 415
Percent Utilization 0%	Percent Utilization 96%	Percent Utilization 0%	Percent Utilization 0%	Percent Utilization 0%	% Utilized	
Percent Solids	Percent Solids 21.37	Percent Solids	Percent Solids	Percent Solids	Percent Solids	In-situ Volume Removed, yd^3 (est.)

Geotube No. 8	Geotube No. 9	Geotube No. 10	Geotube No. 11	Geotube No. 12	Geotube No. 13	
Length, ft. 80	Length, ft. 145	Length, ft. 145	Length, ft. 145	Length, ft.	Length, ft.	
						Geotube Bulk Factor #DIV/0!
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	
Percent Utilization 0%	Percent Utilization 0%	Percent Utilization 0%	Percent Utilization 0%	Percent Utilization	Percent Utilization	
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	

Lower Fox River OU1 2004 Remedial Action
Date: 9/2/04

Geotube® Performance
Tier 1

Geotube No. 1 Length, ft. 60	Geotube No. 2 Length, ft. 80	Geotube No. 3 Length, ft. 145	Geotube No. 4 Length, ft. 145	Geotube No. 5 Length, ft. 145	Geotube No. 6 Length, ft.	
						
Total Volume, yds^3	Total Volume, yds^3 207	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Geotube Volume, yd^3 1,645
Percent Utilization 0%	Percent Utilization 48%	Percent Utilization 0%	Percent Utilization 0%	Percent Utilization 0%	% Utilized	
Percent Solids	Percent Solids 21.37	Percent Solids	Percent Solids	Percent Solids	Percent Solids	In-situ Volume Removed, yd^3 (est.)

Geotube No. 8 Length, ft. 80	Geotube No. 9 Length, ft. 145	Geotube No. 10 Length, ft. 145	Geotube No. 11 Length, ft. 145	Geotube No. 12 Length, ft.	Geotube No. 13 Length, ft.	
						Geotube Bulk Factor #DIV/0!
Total Volume, yds^3 415	Total Volume, yds^3 677	Total Volume, yds^3 346	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	
Percent Utilization 96%	Percent Utilization 86%	Percent Utilization 44%	Percent Utilization 0%	Percent Utilization	Percent Utilization	
Percent Solids ---	Percent Solids ---	Percent Solids	Percent Solids	Percent Solids	Percent Solids	

Lower Fox River OU1 2004 Remedial Action: Geotube® Utilization--Volume and Percent Solids, 9/3/04

Geotube No. 1	Geotube No. 2	Geotube No. 3	Geotube No. 4	Geotube No. 5	Geotube No. 6	
Length, ft. 60	Length, ft. 80	Length, ft. 145	Length, ft. 145	Length, ft. 145	Length, ft.	
	Online: 8/31/04 Deposit:					
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Geotube Volume, yd^3
	340					1,143
Percent Utilization	Percent Utilization	Percent Utilization	Percent Utilization	Percent Utilization	% Utilized	
0%	79%	0%	0%	0%		
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	In-situ Volume Removed, yd^3 (est.)
	26.69					
Geotube No. 8	Geotube No. 9	Geotube No. 10	Geotube No. 11	Geotube No. 12	Geotube No. 13	
Length, ft. 80	Length, ft. 145	Length, ft. 145	Length, ft. 145	Length, ft.	Length, ft.	
Online: 9/1/04 Deposit:	Online: 9/1/04 Deposit:	Online: 9/2/04 Deposit:				Geotube Bulk Factor
						#DIV/0!
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	
141	496	165				
Percent Utilization	Percent Utilization	Percent Utilization	Percent Utilization	Percent Utilization	Percent Utilization	
33%	63%	21%	0%			
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	
---	---	35.28				

Lower Fox River OU1 2004 Remedial Action
Total Suspended Solids Analyses
8-31-04 through 9-3-04

INFRASTRUCTURE ALTERNATIVES

Surface Water Near Dredge (SP-1)		
Sample ID	Sample Date & Time	TSS, mg/L
south	8/31/04 3:01	20
south	8/31/04 23:20	20
north	8/31/04 3:00	60
north	8/31/04 23:21	20

Geotube Weep (SP-5)		
Geotube No.	Sample Date	TSS, mg/L
2	9/1/04	400
	9/2/04	133
8	9/1/04	500
	9/2/04	150
9	9/1/04	200
	9/2/04	50
10	9/2/04	200
	9/3/04	80

Carriage Water (SP-7)		
Sample Start Date & Time	Sample Stop Date & Time	TSS, mg/L
9/2/04 18:00	9/2/04 22:15	20
9/3/04 9:20	9/3/04 16:50	40

Sandfloat Effluent (SP-10)	
Sample Date	TSS, mg/L
9/2/04	20

Lead GAC Unit Effluent East train (SP-11E)	
Sample Date	TSS, mg/L
9/2/04	20

Lower Fox River OU1 2004 Remedial Action
Percent Solids Analyses
8-31-04 through 9-3-04

Dredge Slurry Prior to Chemical Injection (SP-2)			
Sample Start Date & Time	Sample Stop Date & Time	% Solids	% Volatile
8/31/04 10:15	9/1/04 5:15	0.34	
9/1/04 9:15	9/1/04 16:15	0.33	
9/1/04 16:15	9/1/04 21:16	0.91	
9/1/04 21:16	9/2/04 3:10	0.77	
9/2/04 3:10	9/2/04 9:05	0.53	
9/2/04 15:30	9/2/04 21:05	3.44	
9/3/04 10:50	9/3/04 14:45	5.23	

Geotube Contents (SP-6)				
Geotube No.	Sample Date	(-port)	% Solids	% Volatile
2	9/1/04		21.37	
	9/3/04		26.69	
10	9/3/04	mid	35.28	

Lower Fox River OU1 2004 Remedial Action
Grain Size Analyses
8-31-04 through 9-3-04

INFRASTRUCTURE ALTERNATIVES

Dredge Slurry Prior to Chemical Injection (SP-2)								
Sample start date & time	Sample stop date & time	Soil Classification, %						
		Gravel		Sand			Silt	Clay
		Coarse	Fine	Coarse	Medium	Fine		
8/31/04 22:15	9/1/04 5:15	0.0	0.0	0.0	7.3	10.1	68.4	14.2
9/1/04 16:15	9/1/04 21:16	0.0	0.0	0.0	28.1	32.4	6.1	33.5
9/2/04 3:05	9/2/04 9:05	0.0	0.0	0.0	0.6	8.0	81.9	9.5
9/2/04 15:30	9/2/04 21:04	0.0	0.0	0.0	1.8	60.0	0.0	0.0

Geotube Contents (SP-6)								
Geotube No.	Sample Date (-port)	Soil Classification, %						
		Gravel		Sand			Silt	Clay
		Coarse	Fine	Coarse	Medium	Fine		
2	9/1/04 (far)	0.0	0.0	0.0	0.5	8.9	0.0	0

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (soils and slurries)
8-31-04 through 9-3-04

Dredge Slurry Prior to Chemical Injection (SP-2)		
Sample Start Date & Time	Sample Stop Date & Time	Total PCBs, ug/L
8/31/04 22:15	**9/1/04 5:15**	**<0.47**
9/1/04 16:15	**9/1/04 21:16**	**<0.79**
9/2/04 3:05	**9/2/04 9:05**	**<0.47**
9/2/04 9:04	**(grab)**	**1.4**
Please note: Emboldened analyses were not conducted using the Fox River method.		

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (aqueous samples)
8-31-04 through 9-3-04

Geotube Weep (SP-5)		
Geotube No.	Sample date	Total PCBs, ug/L
9	9/2/04	<0.26
10	9/3/04	<0.26

Sandfloat Effluent (SP-10)	
Sample Date	Total PCBs, ug/L
9/2/04	<0.25

Lead GAC Unit Effluent East train (SP-11E)	
Sample Date	Total PCBs, ug/L
9/2/04	<0.26

Lower Fox River OU1 2004 Remedial Action
Geotube Volume, Received Flow (raw)
9-1-04 through 9-17-04

INFRASTRUCTURE ALTERNATIVES

Sample Point 4 (SP-4): Measurement of Geotube® Height, Dredge Flow to Geotubes®

Legend	
	Dredge start
	Geotube online (valve open)
	Estimated dredge flow

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube® No. 1	Geotube® No. 2	Geotube® No. 3	Geotube® No. 4	Geotube® No. 5	Geotube® No. 6	Geotube® No. 8	Geotube® No. 9	Geotube® No. 10	Geotube® No. 11	Geotube® No. 12	Geotube® No. 13
			Height, feet											
9/7/04 7:15	850			2.4					3.4	3.7	2.7			
9/7/04 11:37														
9/7/04 14:55									3.5	5.3	4.9			
9/7/04 16:00				2.3				229500.0	5.5	5.3	4.8			
9/7/04 18:05				5.3					5.4	4.9	4.4			
9/7/04 19:25				5.0					5.2	5.5	4.7	0.2		
9/7/04 20:30				4.7					6.0	5.2	4.4			
9/7/04 22:15				5.7					5.7	5.2	4.4	1.4		
9/7/04 23:25				5.5					5.6	5.1	4.3	2.1		
9/8/04 1:30	900			5.4					5.5	4.7	4.2	2.9		
9/8/04 3:35				5.3					5.3	4.8	4.1	3.7		
9/8/04 5:30				5.0					5.2	4.8	4.1	3.9		
9/8/04 8:00				4.5	1.0				5.5	5.0	4.8	3.9		
9/8/04 12:30				5.6	1.0				5.4	5.6	4.6	4.9		
9/8/04 14:50				5.7	1.0				5.6	6.1	4.3	5.4		
9/8/04 16:57				5.6	1.0				5.8	5.8	4.1	5.2		
9/8/04 19:33				4.5	3.9				5.2	3.8	2.9	4.4		
9/8/04 21:50				4.9	5.75				5.0	5.6	2.7	4.5		
9/9/04 7:30				5.6	6.0				5.9	5.4	2.7	5.1		
9/9/04 9:45				5.5	5.5				5.2	5.6	3.4	4.8		
9/9/04 11:50				5.7	5.2				5.5	5.1	2.7	4.9		
9/9/04 14:50				5.4	4.9				5.4	5.5	4.4	5.0		
9/9/04 17:13			2.0	4.75	4.7	0.0			5.2	4.9	2.0	4.6		
9/9/04 18:14	694													
9/9/04 18:30			1.6	4.7	4.3	1.5			5.3	5.1	3.0	4.8		
9/9/04 19:10	600													
9/9/04 19:40	812													
9/9/04 20:30	824		1.75	4.5	5.75	0.5			5.1	5.7	3.7	5.25		
9/9/04 21:05	900													
9/9/04 21:22	1110													
9/9/04 21:25	1000													
9/9/04 22:18			5.0	5.4	4.8	0.3			5.0	5.6	3.9	4.8		

Lower Fox River OU1 2004 Remedial Action
Geotube Volume, Received Flow (raw)
9-1-04 through 9-17-04

INFRASTRUCTURE ALTERNATIVES

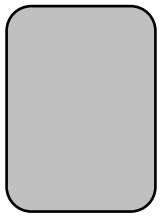
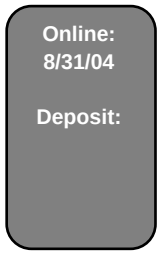
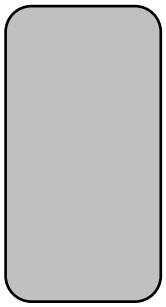
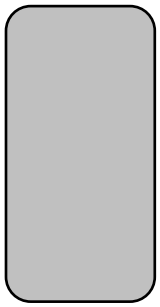
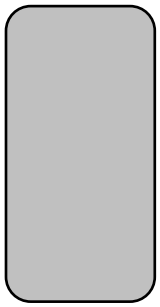
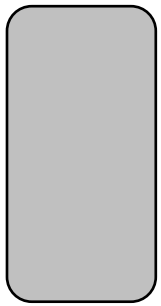
Sample Point 4 (SP-4): Measurement of Geotube® Height, Dredge Flow to Geotubes®

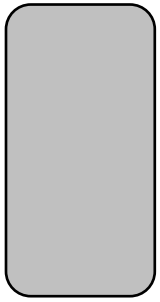
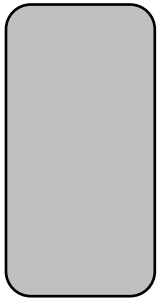
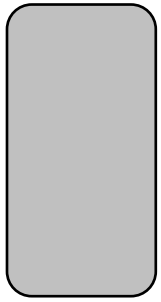
Legend	
	Dredge start
	Geotube online (valve open)
	Estimated dredge flow

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube® No. 1	Geotube® No. 2	Geotube® No. 3	Geotube® No. 4	Geotube® No. 5	Geotube® No. 6	Geotube® No. 8	Geotube® No. 9	Geotube® No. 10	Geotube® No. 11	Geotube® No. 12	Geotube® No. 13
			Height, feet											
9/9/04 22:50	663													
9/9/04 23:55	800													
9/10/04 0:30	660		4.9	5.7	5.4	2.0			5.0	6.0	4.7	5.4		
9/10/04 1:30	800													
9/10/04 2:00	0													
9/10/04 10:00			4.5	5.8	5.0	1.4			5.2	6.0	4.6	5.0		
9/10/04 15:20			4.4	5.5	4.5	1.5			5.0	5.25	3.9	4.4		
9/10/04 19:20			4.1	5.3	4.6	2.75			5.0	5.4	3.6	4.5		
9/10/04 21:30	560		4.25	5.1	4.5	4.7			4.9	5.4	4.0	4.4		
9/10/04 22:30	600													
9/10/04 23:30			4.1	5.1	4.5	3.75	1.0		4.9	5.3	4.4	4.4		

Lower Fox River OU1 2004 Remedial Action: Geotube® Utilization--Volume and Percent Solids, 9/7/04

INFRASTRUCTURE ALTERNATIVES

Geotube No. 1 Length, ft. 60	Geotube No. 2 Length, ft. 80	Geotube No. 3 Length, ft. 145	Geotube No. 4 Length, ft. 145	Geotube No. 5 Length, ft. 145	Geotube No. 6 Length, ft.	
						
Total Volume, yds^3	Total Volume, yds^3 91	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Geotube Volume, yd^3 1,062
Percent Utilization 0%	Percent Utilization 21%	Percent Utilization 0%	Percent Utilization 0%	Percent Utilization 0%	% Utilized	
Percent Solids	Percent Solids 38.22	Percent Solids	Percent Solids	Percent Solids	Percent Solids	In-situ Volume Removed, yd^3 (est.)

Geotube No. 8 Length, ft. 80	Geotube No. 9 Length, ft. 145	Geotube No. 10 Length, ft. 145	Geotube No. 11 Length, ft. 145	Geotube No. 12 Length, ft.	Geotube No. 13 Length, ft.	
						Geotube Bulk Factor #DIV/0!
Total Volume, yds^3 249	Total Volume, yds^3 316	Total Volume, yds^3 406	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	
Percent Utilization 58%	Percent Utilization 40%	Percent Utilization 52%	Percent Utilization 0%	Percent Utilization	Percent Utilization	
Percent Solids 18.07	Percent Solids 37.01	Percent Solids 39.63	Percent Solids	Percent Solids	Percent Solids	

Lower Fox River OU1 2004 Remedial Action
Total Suspended Solids Analyses
9-7-04 through 9-10-04

INFRASTRUCTURE ALTERNATIVES

Geotube Weep (SP-5)		
Geotube No.	Sample Date	TSS, mg/L
1	9/9/04	20
2	9/7/04	50
	9/8/04	33
3	9/8/04	100
	9/9/04	25
8	9/7/04	50
	9/8/04	133
9	9/7/04	100
	9/8/04	33
10	9/7/04	75
	9/9/04	60
11	9/8/04	100
	9/9/04	60

Carriage Water (SP-7)		
Sample Start Date & Time	Sample Stop Date & Time	TSS, mg/L
9/7/04 7:30	9/7/04 19:30	50
9/7/04 19:30	9/8/04 9:00	25
9/8/04 9:00	9/8/04 21:10	75
9/8/04 21:12	9/9/04 9:03	25
9/9/04 9:08	9/9/04 21:05	80
9/9/04 21:05	9/10/04 10:45	60
9/10/04 10:45	9/10/04 21:30	20
9/10/04 21:32	9/11/04 19:27	57

Sludge Tank Return (SP-8)		
Sample Start Date & Time	Sample Stop Date & Time	TSS, mg/L
9/7/04 7:15	(grab)	75
9/7/04 18:10	(grab)	95
9/8/04 14:00	9/8/04 15:35	**5800**
9/8/04 15:35	9/8/04 21:03	25
9/8/04 21:07	9/9/04 9:01	**600**
9/9/04 10:55	(grab)	89
9/9/04 9:04	9/9/04 21:05	567
9/9/04 21:09	9/10/04 10:50	**69,900**
9/10/04 10:50	9/10/04 21:30	**58,700**

Please note: Emboldened results were tested for % S; results were changed to mg/L TSS using 1 % S = 10,000 mg/L TSS conversion.

Sandfloat Effluent (SP-10)	
Sample Date	TSS, mg/L
9/8/04	25
9/9/04	25
9/10/04	10

Lead GAC Unit Effluent East train (SP-11E)	
Sample Date	TSS, mg/L
9/8/04	25
9/9/04	25
9/10/04	10

Lead GAC Unit Effluent East train (SP-11E)	
Sample Date	TSS, mg/L
9/8/04	25
9/9/04	25
9/10/04	10

Lower Fox River OU1 2004 Remedial Action
Percent Solids Analyses
9-7-04 through 9-10-04

INFRASTRUCTURE ALTERNATIVES

Dredge Slurry Prior to Chemical Injection (SP-2)			
Sample Start Date & Time	Sample Stop Date & Time	% Solids	% Volatile
9/7/04 10:45	9/7/04 16:45	10.3	
9/7/04 17:00	9/7/04 19:00	6.86	
09/07/2004 17:20	(grab)	0.87	
09/08/2004 3:00	09/08/2004 9:00	1.01	
9/8/04 9:10	9/8/04 15:30	9.38	
9/9/04 21:00	(grab)	4.01	4.4
9/9/04 21:00	9/10/04 2:30	13.54	4.14

Geotube Contents (SP-6)				
Geotube No.	Sample Date	(-port)	% Solids	% Volatile
2	9/7/04	far	38.22	3.11
	9/9/04	far	32.7	4.8
	9/10/04		28.19	
3	9/9/04	far	13.42	7.5
	9/9/04	mid	26.4	
	9/10/04	far	29.22	7.8
	9/10/04	mid	30.91	5.0
8	9/7/04	far	18.07	4.53
	9/9/04	far	28.84	5.6
	9/10/04	far	39.43	
9	9/7/04	far	37.01	4.57
	9/9/04	far	27.4	
	9/10/04	far	29.5	
10	9/7/04	mid	39.63	
	9/7/04	far	30.58	
	9/8/04	mid	38.4	7.7
	9/9/04	mid	38.70	4.11
11	9/9/04	mid	34.84	4.5
	9/10/04	far	36.36	
	9/10/04		33.75	

Sludge Tank Return (SP-8)		
Start date, time	Stop date, time	% Solids
9/7/04 7:15	(grab)	**0.0075**
9/7/04 18:10	(grab)	**0.0095**
9/8/04 14:00	9/8/04 15:35	0.58
9/8/04 15:35	9/8/04 21:03	**0.0025**
9/8/04 21:07	9/9/04 9:01	0.06
9/9/04 10:55	(grab)	**0.0089**
9/9/04 9:04	9/9/04 21:05	**0.0567**
9/9/04 21:09	9/10/04 10:50	6.99
9/10/04 10:50	9/10/04 21:30	5.87

Emboldened results were tested for TSS (mg/L); results were changed to % S using 10,000 mg/L TSS = 1 % S conversion.

Lower Fox River OU1 2004 Remedial Action
Grain Size Analyses
9-7-04 through 9-10-04

INFRASTRUCTURE ALTERNATIVES

Dredge Slurry Prior to Chemical Injection (SP-2)								
Sample start date & time	Sample stop date & time	Soil Classification, %						
		Gravel		Sand			Silt	Clay
		Coarse	Fine	Coarse	Medium	Fine		
9/8/04 21:00	(grab)	0.0	0.0	0.0	1.7	8.9	0.0	0
9/9/04 3:00	9/9/04 9:00	0.0	0.0	0.0	0.0	10.0	0.0	0

Geotube Contents (SP-6)								
Geotube No.	Sample Date (-port)	Soil Classification, %						
		Gravel		Sand			Silt	Clay
		Coarse	Fine	Coarse	Medium	Fine		
2	9/7/04 (far)							
	9/9/04 (far)	0.0	0.0	0.0	0.6	17.0	0.0	0
	9/10/04 (far)	0.0	0.0	0.0	0.8	24.3	0.0	0
3	9/9/04 (mid)	0.0	0.0	0.2	1.6	34.1	0.0	0
	9/9/04 (far)	0.0	0.0	0.0	1.7	23.4	0.0	0
	9/10/04 (mid)	0.0	0.0	0.0	0.9	24.4	0.0	0
	9/10/04 (far)	0.0	0.0	0.0	0.6	21.5	0.0	0
8	9/7/04 (far)	0.0	0.0	0.0	0.0	1.8	0.0	0
	9/9/04 (far)	0.0	0.0	0.0	0.7	34.2	0.0	0
	9/10/04 (far)	0.0	0.0	0.0	0.6	23.5	0.0	0
9	9/9/04 (far)	0.0	0.0	0.0	1.0	29.8	0.0	0
	9/10/04 (far)	0.0	0.0	0.0	1.2	29.4	0.0	0
10	9/7/04 (mid)	0.0	0.0	0.0	1.0	8.3	0.0	0
	9/7/04 (far)	0.0	0.0	0.0	0.0	19.3	0.0	0
	9/8/04 (mid)	0.0	0.0	0.0	0.6	10.8	0.0	0
	9/9/04 (mid)	0.0	0.0	0.0	0.7	10.5	0.0	0
11	9/9/04 (mid)	0.0	0.0	0.0	1.1	15.6	0.0	0
	9/10/04 (mid)	0.0	0.0	0.0	0.4	12.1	0.0	0
	9/10/04 (far)	0.0	0.8	0.1	1.2	33.1	0.0	0

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (soils and slurries)
9-7-04 through 9-10-04

Dredge Slurry Prior to Chemical Injection (SP-2)		
Sample Start Date & Time	Sample Stop Date & Time	Total PCBs, ug/kg
9/8/04 21:00	(grab)	140
9/9/04 3:00	9/9/04 9:00	170
9/9/04 21:00	(grab)	270

Geotube Contents (SP-6)		
Geotube No.	Sample Date (port)	Total PCBs, ug/kg
10	9/7/04 (mid)	230
	9/7/04 (far)	140

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (aqueous samples)
9-7-04 through 9-10-04

INFRASTRUCTURE ALTERNATIVES

Geotube Weep (SP-5)		
Geotube No.	Sample date	Total PCBs, ug/L
10	9/7/04	<0.24

Carriage Water (SP-7)		
Sample Start Date & Time	Sample Stop Date & Time	Total PCBs, ug/L
9/7/04 7:30	9/7/04 19:30	< 0.24
9/7/04 19:30	9/8/04 9:00	< 0.30
9/8/04 21:12	9/9/04 9:03	< 0.24
9/9/04 21:09	9/10/04 10:50	< 0.25
9/10/04 21:32	9/11/04 19:27	< 0.25

Sandfloat Effluent (SP-10)	
Sample Date	Total PCBs, ug/L
9/8/04	<0.28
9/9/04	< 0.26
9/10/04	<0.25

Lead GAC Lead Unit East train (SP-11E)	
Sample Date	Total PCBs, ug/L
9/8/04	<0.24
9/9/04	<0.25
9/10/04	<0.25

Lead GAC Lead Unit West train (SP-11W)	
Sample Date	Total PCBs, ug/L
9/8/04	<0.24
9/9/04	<0.25
9/10/04	<0.25

Lower Fox River OU1 2004 Remedial Action
Geotube Volume, Received Flow (raw)
9-11-04 through 9-17-04

INFRASTRUCTURE ALTERNATIVES

Sample Point 4 (SP-4): Measurement of Geotube® Height, Dredge Flow to Geotubes®

Legend	
	Dredge start
	Geotube online (valve open)
	Estimated dredge flow

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube® No. 1	Geotube® No. 2	Geotube® No. 3	Geotube® No. 4	Geotube® No. 5	Geotube® No. 6	Geotube® No. 8	Geotube® No. 9	Geotube® No. 10	Geotube® No. 11	Geotube® No. 12	Geotube® No. 13
			Height, feet											
9/11/04 1:30	700		4.1	5.1	4.5	4.25	2.7		4.7	5.25	5.0	4.4		
9/11/04 2:35	950													
9/11/04 3:00	800													
9/11/04 3:30			4.1	5.2	5.75	5.1	2.3		4.7	5.9	5.4	4.4		
9/11/04 4:00	720													
9/11/04 4:13														
9/11/04 4:35	785													
9/11/04 5:22														
9/11/04 5:30			6.0	6.0	5.7	5.0			4.7	6.0	5.7	4.5		
9/11/04 18:00	0		4.25	5.5	4.5	4.0	1.75		4.5	5.5	4.5	4.25		
9/11/04 18:51	770													
9/11/04 19:15	1300													
9/11/04 19:45	750													
9/11/04 20:30	650													
9/11/04 21:15	750													
9/11/04 21:50	625													
9/11/04 22:15			5.7	5.75	4.75	4.75	5.3		4.5	5.5	4.5	4.5		
9/11/04 22:40	800													
9/11/04 23:55	690													
9/12/04 0:30	670		6.0	5.6	5.6	4.8	4.6		4.5	5.5	5.75	6.0		
9/12/04 0:55	730													
9/12/04 1:12	740													
9/12/04 1:25	730													
9/12/04 1:33	700													
9/12/04 1:55	720													
9/12/04 2:18	654													
9/12/04 2:30	680		5.8	6.0	5.4	5.9	5.2	40528.0						
9/12/04 3:05	740													
9/12/04 3:17	700							#REF!						
9/12/04 3:35	0													
9/12/04 18:00	655													
9/12/04 19:30	620		5.2	4.9	4.2	4.5	3.40		4.9	4.8	5.1	6.2		
9/12/04 20:05	635													

Lower Fox River OU1 2004 Remedial Action
Geotube Volume, Received Flow (raw)
9-11-04 through 9-17-04

Sample Point 4 (SP-4): Measurement of Geotube® Height, Dredge Flow to Geotubes®

Legend	
	Dredge start
	Geotube online (valve open)
	Estimated dredge flow

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube® No. 1	Geotube® No. 2	Geotube® No. 3	Geotube® No. 4	Geotube® No. 5	Geotube® No. 6	Geotube® No. 8	Geotube® No. 9	Geotube® No. 10	Geotube® No. 11	Geotube® No. 12	Geotube® No. 13
			Height, feet											
9/12/04 20:35	640		5.1	4.8	5.7	4.6	4.3		4.8	5.0	5.1	6.1		
9/12/04 21:00	690													
9/12/04 21:25	725													
9/12/04 22:00	585													
9/12/04 22:30	585		5.7	5.7	5.7	5.9	5.5		5.8	5.5	5.6	5.8		
9/13/04 0:56			5.4	5.3	4.9	4.75	4.6		5.1	5.1	4.8	5.2		
9/13/04 17:00			5.4	5.3	4.8	4.3	4.2		4.9	5.25	4.5	5.0		
9/14/04 7:17			5.3	4.9	4.2	3.75	3.75		4.75	5.25	4.9	4.8		
9/14/04 9:40			5.3	4.9	4.3	3.7	3.7		4.5	5.2	4.8	4.8		
9/15/04 7:10			5.25	4.5	5.1	4.6	3.5		4.75	5.25	4.75	4.75		
9/15/04 12:10	730													
9/15/04 12:20	700													
9/15/04 12:30	725													
9/15/04 12:40	730													
9/15/04 12:50	710													
9/15/04 13:00	710													
9/15/04 13:10	700													
9/15/04 13:28	690													
9/15/04 13:39	765													
9/15/04 13:55	745													
9/15/04 14:05	750													
9/15/04 14:15	880													
9/15/04 14:35	1020													
9/15/04 14:45	1040													
9/15/04 14:55	1250													
9/15/04 15:25	1175													
9/15/04 15:55	1282													
9/15/04 16:25	1376													
9/15/04 17:00	1366													
9/15/04 17:20			5.25	4.8	5.0	4.6	3.4		5.3	5.1	4.6	4.4	3.6	
9/15/04 17:30	1400													
9/15/04 18:00	1375													
9/15/04 19:16	1460													

Lower Fox River OU1 2004 Remedial Action
Geotube Volume, Received Flow (raw)
9-11-04 through 9-17-04

INFRASTRUCTURE ALTERNATIVES

Sample Point 4 (SP-4): Measurement of Geotube® Height, Dredge Flow to Geotubes®

Legend	
	Dredge start
	Geotube online (valve open)
	Estimated dredge flow

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube® No. 1	Geotube® No. 2	Geotube® No. 3	Geotube® No. 4	Geotube® No. 5	Geotube® No. 6	Geotube® No. 8	Geotube® No. 9	Geotube® No. 10	Geotube® No. 11	Geotube® No. 12	Geotube® No. 13
			Height, feet											
9/15/04 19:30	1370													
9/15/04 19:51														
9/15/04 20:10	1470													
9/15/04 20:25	1370													
9/15/04 20:45	1400													
9/15/04 21:00	1400													
9/15/04 21:15	1420	861170												
09/16/2004 7:25			5.25	4.9	5.4	5.1	4		5	5.25	5	4.6	2.25	
09/16/2004 7:50	1170													
09/16/2004 9:00	950													
09/16/2004 9:30	845													
09/16/2004 10:00	1050													
09/16/2004 10:30	1050													
09/16/2004 11:00	970													
09/16/2004 11:30	1020													
09/16/2004 11:55	965													
09/16/2004 12:00	920													
09/16/2004 12:30	880													
09/16/2004 13:00	860													
09/16/2004 13:30	850	688985												
09/16/2004 13:35	825													
09/16/2004 13:50	770													
09/16/2004 13:57	805													
09/16/2004 14:00	800													
09/16/2004 15:00	780													
09/16/2004 15:10	780													
09/16/2004 15:30	794													
09/16/2004 16:00	1040													
09/16/2004 16:30	1162													
09/16/2004 17:00	1030													
09/16/2004 18:00	850													
09/16/2004 19:45	1200													
09/17/2004 7:15	0		4.6	4.75	4.5	4.4	4.25		4.9	5.1	5.5	5	3	2.4

Lower Fox River OU1 2004 Remedial Action
Geotube Volume, Received Flow (raw)
9-11-04 through 9-17-04

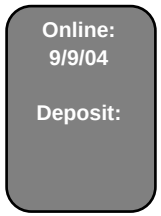
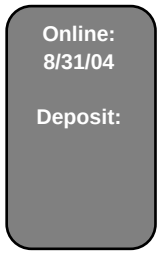
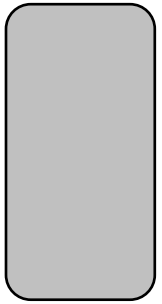
INFRASTRUCTURE ALTERNATIVES

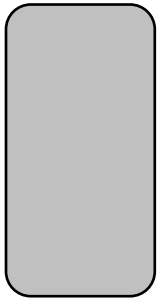
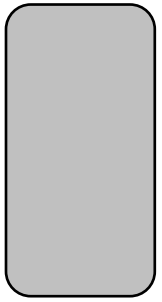
Sample Point 4 (SP-4): Measurement of Geotube® Height, Dredge Flow to Geotubes®

Legend	
	Dredge start
	Geotube online (valve open)
	Estimated dredge flow

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube® No. 1	Geotube® No. 2	Geotube® No. 3	Geotube® No. 4	Geotube® No. 5	Geotube® No. 6	Geotube® No. 8	Geotube® No. 9	Geotube® No. 10	Geotube® No. 11	Geotube® No. 12	Geotube® No. 13
			Height, feet											
09/17/2004 8:15	1000													
09/17/2004 8:45	945													
09/17/2004 9:15			4.4	4.6	4.5	4.7	4.2		5.1	5.3	4.6	4.6	2.75	4.75
09/17/2004 9:45	915													
09/17/2004 10:15	890													
09/17/2004 10:20	915													
09/17/2004 10:45														
09/17/2004 11:15	890													
09/17/2004 11:45	850	431300	4.25	4.5	4.7	4.5	4.4		4.75	5.25	4.1	4.25	4.4	4
09/17/2004 12:15	840													
09/17/2004 12:30														
09/17/2004 12:45	845													
09/17/2004 13:15	850													
09/17/2004 13:40	1005													
09/17/2004 14:00	1000													
09/17/2004 14:15	945		4.1	5.25	6	6	5.6		4.75	5.2	4.9	4.5	4.1	4
09/17/2004 14:30	970													
09/17/2004 15:00	0													

Lower Fox River OU1 2004 Remedial Action: Geotube® Utilization--Volume and Percent Solids, 9/13/04

Geotube No. 1	Geotube No. 2	Geotube No. 3	Geotube No. 4	Geotube No. 5	Geotube No. 6	
Length, ft. 60	Length, ft. 80	Length, ft. 145	Length, ft. 145	Length, ft. 145	Length, ft.	
						
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Geotube Volume, yd^3
330	407	632	564	564		5,138
Percent Utilization	Percent Utilization	Percent Utilization	Percent Utilization	Percent Utilization	% Utilized	
102%	94%	81%	72%	72%		
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	In-situ Volume Removed, yd^3 (est.)
---	29.81	29.47	25.36			

Geotube No. 8	Geotube No. 9	Geotube No. 10	Geotube No. 11	Geotube No. 12	Geotube No. 13	
Length, ft. 80	Length, ft. 145	Length, ft. 145	Length, ft. 145	Length, ft.	Length, ft.	
						Geotube Bulk Factor
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	#DIV/0!
394	789	737	722			
Percent Utilization	Percent Utilization	Percent Utilization	Percent Utilization	Percent Utilization	Percent Utilization	
91%	101%	94%	92%			
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	
28.1	34.64	38.7	37.59			

Lower Fox River OU1 2004 Remedial Action
Total Suspended Solids Analyses
9-11-04 through 9-17-04 *page 1 of 2*

INFRASTRUCTURE ALTERNATIVES

Surface Water Near Dredge (SP-1)		
Sample Identification	Sample Date & Time	TSS, mg/L
upstream, behind silt curtain	9/15/04 9:30	90
downstream, behind silt curtain	9/15/04 9:30	196
downstream	9/15/04 11:31	40
upstream	9/15/04 11:16	60
upstream	9/15/04 13:00	140
boat jet stream	9/15/04 13:00	140
downstream	9/15/04 13:00	44
upstream	9/15/04 15:30	40
downstream	9/15/04 15:33	30
downstream of backhoe	9/15/04 15:50	180
upstream of backhoe	9/15/04 15:52	170
Hydraulic, south	9/17/04 15:55	10
Hydraulic, north	9/17/04 15:55	10
Mechanical, south (upstream)	9/17/04	20
Mechanical, north (downstream)	9/17/04	80
Hydraulic, north (downstream)	9/17/04	10
Hydraulic, south (upstream)	9/17/04	10

Geotube Weep (SP-5)		
Geotube No.	Sample Date	TSS, mg/L
1	9/11/04	28
	9/13/04	49
	9/15/04	<10
2	9/13/04	32
	9/15/04	100
3	9/13/04	7
	9/15/04	120
	9/16/04	60
4	9/11/04	67
	9/13/04	14
	9/15/04	10
	9/16/04	40
5	9/11/04	28
	9/13/04	18
	9/15/04	60
	9/16/04	40
8	9/13/04	67
	9/15/04	40

(Continued) Geotube Weep (SP-5)		
Geotube No.	Sample Date	TSS, mg/L
9	9/11/04	10
	9/13/04	20
	9/14/04	34.2
10	9/13/04	5
	9/15/04	<10
11	9/13/04	10
	9/15/04	20
12	9/15/04	60
	9/16/04	80
	9/17/04	40
13	9/17/04	40

Carriage Water (SP-7)		
Sample Start Date & Time	Sample Stop Date & Time	TSS, mg/L
9/2/04 18:00	9/2/04 22:15	20
9/3/04 9:20	9/3/04 16:50	40
9/7/04 7:30	9/7/04 19:30	50
9/7/04 19:30	9/8/04 9:00	25
9/8/04 9:00	9/8/04 21:10	75
9/8/04 21:12	9/9/04 9:03	25
9/9/04 9:08	9/9/04 21:05	80
9/9/04 21:05	9/10/04 10:45	60
9/10/04 10:45	9/10/04 21:30	20
9/10/04 21:32	9/11/04 19:27	57
9/11/04 19:27	9/12/04 19:20	10
9/12/04 7:20	9/13/04 12:15	<10
9/13/04 19:15	9/14/04 9:35	60
9/14/04 9:35	9/14/04 19:35	40
9/14/04 19:35	9/15/04 7:02	20
9/15/04 7:05	9/15/04 19:40	40
9/15/04 19:40	9/16/04 8:45	20
9/16/04 8:45	9/16/04 20:45	40
9/16/04 20:45	9/17/04 8:45	60

Sludge Tank Return (SP-8)		
Sample Start Date & Time	Sample Stop Date & Time	TSS, mg/L
9/7/04 7:15	(grab)	75
9/7/04 18:10	(grab)	95
9/8/04 14:00	9/8/04 15:35	**5800**
9/8/04 15:35	9/8/04 21:03	25
9/8/04 21:07	9/9/04 9:01	**600**
9/9/04 10:55	(grab)	89
9/9/04 9:04	9/9/04 21:05	567
9/9/04 21:09	9/10/04 10:50	**69,900**

Lower Fox River OU1 2004 Remedial Action
Total Suspended Solids Analyses
9-11-04 through 9-17-04 *page 2 of 2*

(Continued) Sludge Tank Return (SP-8)		
Sample Start Date & Time	Sample Stop Date & Time	TSS, mg/L
9/10/04 10:50	9/10/04 21:30	**58,700**
9/11/04 17:30	9/12/04 19:25	25
9/16/04 9:45	9/16/04 18:40	40
9/16/04 18:40	9/16/04 21:45	120

Please note: Emboldened results were tested for % S; results were changed to mg/L TSS using 1 % S = 10,000 mg/L TSS conversion.

Sandfloat Effluent (SP-10)	
Date	TSS, mg/L
9/2/04	20
9/8/04	25
9/9/04	25
9/10/04	10
9/12/04	20
9/14/04	40
9/16/04 9:55	40
9/16/04 11:10	30

Lead GAC Unit Effluent East train (SP-11E)	
Date	TSS, mg/L
9/2/04	20
9/8/04	25
9/9/04	25
9/10/04	10
9/12/04	10
9/14/04	10
9/16/04	<10

Lead GAC Unit Effluent West train (SP-11W)	
Date	TSS, mg/L
9/8/04	25
9/9/04	25
9/10/04	10
9/12/04	10
9/14/04	20
9/16/04	40

Lower Fox River OU1 2004 Remedial Action
Percent Solids Analyses
9-11-04 through 9-17-04 *page 1 of 2*

Dredge Slurry Prior to Chemical Injection (SP-2)			
Sample Start Date & Time	Sample Stop Date & Time	% Solids	% Volatile
9/11/04 19:30	9/12/04 0:30	1.0	15.0
9/12/04 0:30	9/12/04 3:30	0.87	14.8
9/12/04 18:20	**9/12/04 23:50**	**8.54**	
09/15/2004 11:28	(grab)	1.58	
09/15/2004 12:44	(grab)	0.86	
09/15/2004 15:55	(grab)	0.44	
09/15/2004 19:30	(grab)	0.20	
09/15/2004 22:00	(grab)	0.17	
09/16/2004 11:30	(grab)	0.12	
09/16/2004 14:00	(grab)	0.24	
09/16/2004 16:30	(grab)	0.42	
09/16/2004 17:00	09/16/2004 23:00	1.97	
09/17/2004 7:40	09/17/2004 11:35	1.3	
09/17/2004 11:40	09/17/2004 15:36	1.37	
09/17/2004 15:38	09/17/2004 16:45	1.9	

Please note: Emboldened sample SP-2 9/12/04 18:20 to 9/12/04 23:30 was taken from Dredge Slurry Post-Chemical Injection (SP-3).

Geotube Contents (SP-6)				
Geotube No.	Sample date	(-port)	% Solids	% Volatile
2	9/11/04		26.2	4.4
	9/12/04		29.81	5.13
	9/13/04	far	24.6	
	9/14/04	far	29.8	
	9/15/04		38.2	
	9/16/04		31.1	
8	9/11/04	far	40.5	4.65
	9/12/04	far	28.1	5.1
	9/13/04	far	34.3	
	9/14/04	far	35.25	5.7
	9/15/04	far	38.7	
	9/16/04	far	43.5	
9	9/12/04	mid	30.8	5.9
	9/12/04	far	34.51	
	9/13/04	far	34.64	5.5
	9/14/04		34.7	
	9/15/04	mid	45.9	
	9/15/04	far	45.1	
1	9/14/04		59.2	
	9/15/04		61.5	
	9/16/04		61.8	
3	9/12/04	mid	30.11	6.69
	9/12/04	far	28.82	7.58
	9/13/04	mid	29.1	
	9/13/04	far	25.7	
	9/14/04	mid	28.1	
	9/14/04	far	17.9	
	9/15/04	mid	35.9	6.9
	9/15/04	far	26.9	
	9/16/04	mid	31.8	
	9/16/04	far	30.1	

Lower Fox River OU1 2004 Remedial Action
Percent Solids Analyses
9-11-04 through 9-17-04 *page 2 of 2*

Geotube Contents (SP-6)				
Geotube No.	Date	(-port)	% Solids	% Volatile
11	9/11/04	mid	27.81	5.01
	9/11/04	far	17.84	
	9/12/04	mid	35.45	4.1
	9/12/04	far	31.86	5.6
	9/13/04	mid	37.59	
	9/13/04	far	29.7	
	9/14/04	mid	38.08	
	9/14/04	far	36.1	
	9/15/04	mid	37.7	
	9/15/04	far	38.3	
	9/16/04	mid	41.1	
	9/16/04	far	36.1	
4	9/11/04		23.92	5.9
	9/12/04	mid	31.77	4.5
	9/12/04	far	23.92	
	9/13/04	mid	29.5	
	9/13/04	far	25.36	
	9/14/04	mid	35.0	
	9/14/04	far	31.1	
	9/15/04	mid	36.5	6.96
	9/16/04	mid	25.5	
	9/16/04	far	19.5	
5	**9/11/04**	**mid**	**17.81**	**9.7**
	9/12/04	mid	31.89	7.8
	9/12/04	far	1.44	5.84
	9/13/04	mid	25.9	7.7
	9/13/04	far	4.4	
	9/14/04	far	15.8	
	9/15/04	far	25.2	
	9/16/04	mid	4.54	
	9/16/04	far	7.4	
No. 12	9/17/04	mid	49.9	
No. 13	9/17/04	mid	54.7	

Please note: Emboldened sample, SP-6.5 9/11/04 mid-port, was actually taken at 2:00, during the early morning hours of 9/12/04.

Sludge Tank Return (SP-8)		
Start date, time	Stop date, time	% Solids
9/7/04 7:15	(grab)	**0.0075**
9/7/04 18:10	(grab)	**0.0095**
9/8/04 14:00	9/8/04 15:35	0.58
9/8/04 15:35	9/8/04 21:03	**0.0025**
9/8/04 21:07	9/9/04 9:01	0.06
9/9/04 10:55	(grab)	**0.0089**
9/9/04 9:04	9/9/04 21:05	**0.0567**
9/9/04 21:09	9/10/04 10:50	6.99
9/10/04 10:50	9/10/04 21:30	5.87
9/11/04 17:30	9/12/04 19:25	**0.0025**
9/12/04 21:05	9/13/04 12:15	0.1

Please note: Emboldened results were tested for TSS (mg/L); results were changed to % S using 10,000 mg/L TSS = 1 % S conversion.

Lower Fox River OU1 2004 Remedial Action
Grain Size Analyses
9-11-04 through 9-17-04 *page 1 of 2*

INFRASTRUCTURE ALTERNATIVES

Dredge Slurry Prior to Chemical Injection (SP-2)

Sample start date & time	Sample stop date & time	Soil Classification, %						
		Gravel		Sand			Silt	Clay
		Coarse	Fine	Coarse	Medium	Fine		
9/11/04 19:30	9/12/04 0:30	0.0	0.0	0.0	2.5	53.8	0.0	0
9/12/04 0:30	9/12/04 3:30	0.0	0.0	0.0	2.9	56.3	0.0	0
9/12/04 18:20	**9/12/04 23:30**	**0.0**	**0.0**	**0.0**	**3.6**	**53.5**	**0.0**	**0**
9/15/04 10:25	9/15/04 11:28	0.0	0.0	0.0	44.2	18.7	0.0	0
9/16/04 9:30	9/16/04 11:30	0.0	0.0	0.0	6.3	31.3	0.0	0
9/17/04 7:40	9/17/04 11:35	0.0	0.0	0.0	0.0	6.2	0.0	0

Please note: Emboldened sample SP-2 9/12/04 18:20 to 9/12/04 23:30 was taken from Dredge Slurry Post-Chemical Injection (SP-3).

Geotube Contents (SP-6)

Geotube No.	Sample Date (-port)	Soil Classification, %						
		Gravel		Sand			Silt	Clay
		Coarse	Fine	Coarse	Medium	Fine		
1	09/15/2004	0	1.5	2.4	3.8	8	0	0
	09/16/2004	0	6.6	2.9	5.2	8.6	0	0
2	9/12/04 (far)	0.0	0.0	0.0	0.4	17.9	0.0	0
	9/12/04 (mid)	0.0	0.0	0.0	0.3	22.3	0.0	0
	9/13/04 (far)	0.0	0.0	0.0	14.2	30.7	0.0	0
	09/16/2004	0.0	0.0	1.3	6.4	29.0	0.0	0
3	9/12/04 (mid)	0.0	0.0	0.1	0.7	28.1	0.0	0
	9/13/04 (mid)	0.0	0.0	3.9	16.0	35.6	0.0	0
	9/13/04 (far)	0.0	0.0	2.4	18.1	31.5	0.0	0
	9/16/04 (mid)	0.0	0.0	0.0	10.8	35.1	0.0	0
	9/16/04 (far)	0.0	0.8	3.2	11.9	27.5	0.0	0
4	9/12/04 (mid)	0.0	0.0	0.0	0.5	23.5	0.0	0
	9/13/04 (mid)	0.0	0.0	5.7	11.3	31.2	0.0	0
	9/13/04 (far)	0.0	0.0	0.0	5.8	38.3	0.0	0
	9/16/04 (mid)	0.0	0.0	0.8	7.1	32.3	0.0	0
	9/16/04 (far)	0.0	0.0	0.0	7.2	27.6	0.0	0
5	9/12/04 (mid)	0.0	0.0	0.2	1.2	34.3	0.0	0
	9/12/04 (far)	0.0	0.0	0.0	1.8	43.6	0.0	0
	9/13/04 (far)	0.0	0.0	0.0	44.7	34.0	0.0	0
	9/16/04 (mid)	0.0	0.3	2.7	9.6	43.0	0.0	0
	9/16/04 (far)	0.0	0.0	4.9	16.4	40.7	0.0	0
	9/7/04 (far)	0.0	0.0	0.0	0.0	1.8	0.0	0
8	9/11/04 (far)	0.0	0.7	0.1	0.8	19.2	0.0	0
	9/12/04 (far)	0.0	0.0	0.0	0.3	18.2	0.0	0
	9/13/04 (far)	0.0	0.0	0.0	12.1	29.0	0.0	0
	09/16/2004	0.0	0.0	2.5	6.1	29.0	0.0	0
9	9/12/04 (far)	0.0	0.0	0.0	0.3	11.9	0.0	0
	9/12/04 (mid)	0.0	0.0	0.0	0.7	13.4	0.0	0
	9/13/04 (far)	0.0	0.7	0.0	9.7	24.0	0.0	0
	9/7/04 (mid)	0.0	0.0	0.0	1.0	8.3	0.0	0

Lower Fox River OU1 2004 Remedial Action
Grain Size Analyses
9-11-04 through 9-17-04 *page 2 of 2*

INFRASTRUCTURE ALTERNATIVES

(Continued) Geotube Contents
(SP-6)

Geotube No.	Sample Date (-port)	Soil Classification, %						
		Gravel		Sand			Silt	Clay
		Coarse	Fine	Coarse	Medium	Fine		
11	9/11/04	0.0	0.0	0.0	0.6	14.1	0.0	0
	9/12/04 (mid)	0.0	0.0	0.0	0.5	13.5	0.0	0
	9/12/04 (far)	0.0	0.0	0.0	0.5	25.9	0.0	0
	9/13/04 (mid)	0.0	0.0	0.0	11.1	27.6	0.0	0
	9/13/04 (far)	0	0	8.6	10.1	35.4	0	0
	9/16/04 (far)	0	0	2.2	6.9	36.3	0	0
	9/16/04 (mid)	0	0	0.4	4.9	25	0	0
	9/14/04 (mid)	0	0	0.4	3.2	84.1	0	0
12	9/17/04 (mid)	0	0	0.5	2.9	83	0	0

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (soils and slurries)
9-11-04 through 9-17-04

Dredge Slurry Prior to Chemical Injection (SP-2)		
Sample Start Date & Time	Sample Stop Date & Time	Total PCBs, ug/kg
9/8/04 21:00	(grab)	140
9/9/04 3:00	9/9/04 9:00	170
9/9/04 21:00	(grab)	270
9/11/04 19:30	**9/12/04 0:30**	**320**
9/12/04 0:30	**9/12/04 3:30**	**390**
9/12/04 18:12	**9/12/04 23:30**	**570**
9/15/04 10:25	**9/15/04 11:28**	**360**
9/15/04 16:25	**9/15/04 19:30**	**<120**
9/16/04 9:30	**9/16/04 11:30**	**160**
9/16/04 17:00	9/16/04 22:40	320
9/17/04 7:40	9/17/04 11:35	110
9/17/04 15:38	9/17/04 16:45	1500

Please note: Emboldened samples (9/11/04 19:30 to 9/12/04 0:30 through 9/16/04 9:30 to 9/16/04 11:30) were taken from Dredge Slurry Post-Chemical Injection (SP-3).

Geotube Contents (SP-6)		
Geotube No.	Sample Date (port-)	Total PCBs, ug/kg
1	9/15/04	56
	9/16/04	<27
2	9/12/04 (far)	170
	9/12/04	170
3	9/12/04 (mid)	260
	9/13/04 (mid)	220
4	9/12/04 (mid)	140
5	9/12/04 (mid)	240
	9/12/04	260
8	9/13/04 (far)	150
10	9/7/04 (mid)	230
	9/7/04 (far)	140
11	9/13/04 (mid)	180
12	9/17/04 (mid)	210
13	9/17/04 (mid)	81

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (aqueous samples)
9-11-04 through 9-17-04

Geotube Weep (SP-5)		
Geotube No.	Sample date	Total PCBs, ug/L
13	9/17/04	< 0.25

Carriage Water (SP-7)		
Sample Start Date & Time	Sample Stop Date & Time	Total PCBs, ug/L
9/11/04 7:27	9/12/04 19:20	< 0.25
9/13/04 19:15	9/14/04 9:35	< 0.25
9/14/04 9:35	9/14/04 19:35	< 0.25
9/15/04 7:05	9/15/04 19:40	< 0.25
9/15/04 19:40	9/16/04 8:45	< 0.25

Sandfloat Effluent (SP-10)	
Sample Date	Total PCBs, ug/L
9/12/04	<0.25
9/14/04	< 0.27
9/16/04	< 0.27

Lead GAC Unit Effluent East train (SP-11E)	
Sample Date	Total PCBs, ug/L
9/12/04	<0.25
9/14/04	< 0.25
9/16/04	< 0.26

Lead GAC Unit Effluent West train (SP-11W)	
Sample Date	Total PCBs, ug/L
9/12/04	<0.25
9/14/04	< 0.25
9/16/04	< 0.25

Lower Fox River OU1 2004 Remedial Action
Geotube Height, Flow Received
9-18-04 through 9-24-04

INFRASTRUCTURE ALTERNATIVES

Sample Point 4 (SP-4): Measurement of Geotube® Height, Dredge Flow to Geotubes®

Legend	
	Dredge start
	Geotube online (valve open)
	Estimated dredge flow

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube® No. 1	Geotube® No. 2	Geotube® No. 3	Geotube® No. 4	Geotube® No. 5	Geotube® No. 6	Geotube® No. 8	Geotube® No. 9	Geotube® No. 10	Geotube® No. 11	Geotube® No. 12	Geotube® No. 13
			Height, feet											
9/20/04 0800	1100													
9/20/04 0900	1200													
09/20/2004 9:05			3.0	4.4	4.9	5.6	5.8		4.8	4.9	4.9	4.4	4.3	3.3
9/20/04 0935	1050													
9/20/04 1005	1020													
9/20/04 1115														
9/20/04 1157	811													
9/20/04 1205			3.0	4.3	5	5.6	5.6		5.1	4.8	4.3	4.9	3.3	
9/20/04 1235	980													
9/20/04 1245	976													
9/20/04 1300	884													
9/20/04 1310	845													
9/20/04 1350	910													
9/20/04 1520	940	780,488	3.0	4.9	5	5.3	5.4		4.8	4.6	4.7	5.6	5.8	3.3
9/20/04 1600	980													
9/20/04 1620	920													
9/20/04 1630	930													
9/20/04 1640	920													
9/20/04 1700	890													
9/20/04 1800	870													
9/20/04 1820			3.0	4.8	5.2	5.3	5.7		4.6	5.1	4.5	5.1	4.3	6
9/20/04 1850	855													
9/20/04 1950	840													
9/20/04 2030	820													
9/20/04 2100	811													
9/20/04 2130	800													
9/20/04 2220	900													
9/20/04 2233	0													
9/21/04 0720			3.0	4.1	5.7	5.3	5.3		4.9	4.9	4.2	4.8	4.5	4
9/21/04 0751	880													
9/21/04 0800	926													
9/21/04 0815	894													
9/21/04 0830	930													
9/21/04 0930	950													

Lower Fox River OU1 2004 Remedial Action
Geotube Height, Flow Received
9-18-04 through 9-24-04

INFRASTRUCTURE ALTERNATIVES

Sample Point 4 (SP-4): Measurement of Geotube® Height, Dredge Flow to Geotubes®

Legend	
	Dredge start
	Geotube online (valve open)
	Estimated dredge flow

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube® No. 1	Geotube® No. 2	Geotube® No. 3	Geotube® No. 4	Geotube® No. 5	Geotube® No. 6	Geotube® No. 8	Geotube® No. 9	Geotube® No. 10	Geotube® No. 11	Geotube® No. 12	Geotube® No. 13
			Height, feet											
9/21/04 0948		890,155	3.0	6	5.9	5.3	5.6		4.9	4.9	4.5	4.8	5.4	4
9/21/04 0955	930													
9/21/04 1030	1013													
9/21/04 1050	1080													
9/21/04 1155	910													
9/21/04 1205	0													
9/21/04 1205			3.0	6	5.9	5.1	5.5		4.9	4.8	4.1	4.7	5.3	5.8
9/21/04 1255														
9/21/04 1323	980													
9/21/04 1355														
9/21/04 1415	0													
9/21/04 1425														
9/21/04 1508	1100													
9/21/04 1520	1100													
9/21/04 1610			3.0	5.4	6	5.4	5.4		4.9	4.7	4.1	5.7	5.2	4.5
9/21/04 1620	1100													
9/21/04 1645	1050													
9/21/04 1715	1160													
9/21/04 1730	1413													
9/21/04 1810	1100													
9/21/04 1825	1025													
9/21/04 1900	1100													
9/21/04 1930	1110													
9/21/04 2000	1070													
9/21/04 2045	1020													
9/21/04 2130	1010													
9/21/04 2215	1000													
9/21/04 2235	0													
9/22/04 0800														
9/22/04 0805			2.75	4.9	6	5.5	5.6	0.6	4.6	4.9	4.3	5.7	4.6	4.6
9/22/04 1210			2.75	5.1	6.2	5.4	5.2	1.9	4.4	4.3	3.9	5.3	5.7	5.8
9/22/04 1220	1040													
9/22/04 1255	1130													
9/22/04 1305	1050													

Lower Fox River OU1 2004 Remedial Action
Geotube Height, Flow Received
9-18-04 through 9-24-04

INFRASTRUCTURE ALTERNATIVES

Sample Point 4 (SP-4): Measurement of Geotube® Height, Dredge Flow to Geotubes®

Legend	
	Dredge start
	Geotube online (valve open)
	Estimated dredge flow

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube® No. 1	Geotube® No. 2	Geotube® No. 3	Geotube® No. 4	Geotube® No. 5	Geotube® No. 6	Geotube® No. 8	Geotube® No. 9	Geotube® No. 10	Geotube® No. 11	Geotube® No. 12	Geotube® No. 13
			Height, feet											
9/22/04 1413	1060													
9/22/04 1530	950													
9/22/04 1710	0													
9/22/04 1730		930,090												
9/22/04 1845	1070													
9/22/04 1920	1080													
9/22/04 1955	1130													
9/22/04 2010	1120													
9/22/04 2030	1150													
9/22/04 2140	1130													
9/22/04 2150	1150													
9/22/04 2220	1140													
9/22/04 2238	0													
9/23/04 0745	1120													
9/23/04 0755	1100		2.75	4.7	5.7	5.3	4.3	3	4.4	4.8	4.1	4.7	4.2	4.3
9/23/04 1000	940		2.75	4.6	5.6	5.3	4.3	5.3	4.4	4.8	4.1	4.7	4.3	4.5
9/23/04 1300	1080													
9/23/04 1320	1050													
9/23/04 1415	1040													
9/23/04 1430	1040													
9/23/04 1537	1075	636,655												
9/23/04 1540	1050													
9/23/04 1612			2.75	4.6	5.5	6	5.5	5.3	4.4	4.8	3.9	6	3.8	4.3
9/23/04 1620	1000													
9/23/04 1705	1040													
9/23/04 1750	0													
9/23/04 2005	1050													
9/23/04 2115	0													
9/24/04 7:40	982													
9/24/04 8:10	1000													
9/24/04 8:43	975													
9/24/04 10:00	0													
9/24/04 10:40	0	238,885	2.75	4.25	5.25	5.25	5.4	4.3	4.1	4.7	4.25	5.75	4.1	5.3
9/24/04 13:00	1005													

Lower Fox River OU1 2004 Remedial Action
Geotube Height, Flow Received
9-18-04 through 9-24-04

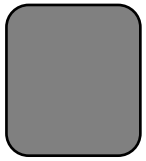
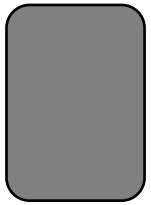
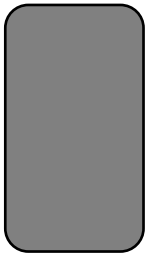
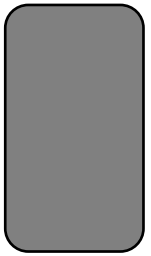
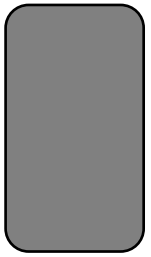
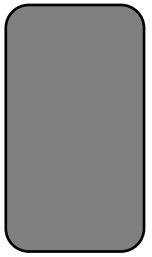
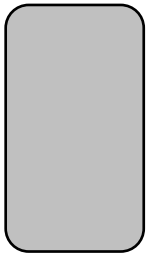
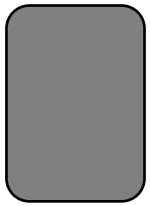
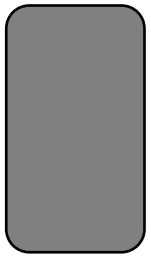
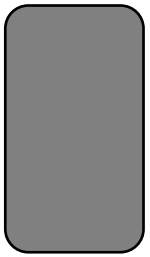
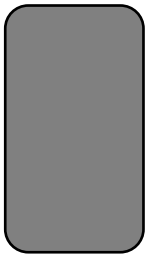
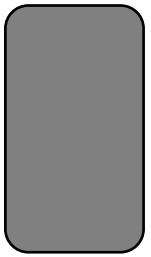
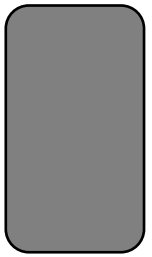
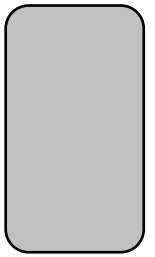
INFRASTRUCTURE ALTERNATIVES

Sample Point 4 (SP-4): Measurement of Geotube® Height, Dredge Flow to Geotubes®

Legend	
	Dredge start
	Geotube online (valve open)
	Estimated dredge flow

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube® No. 1	Geotube® No. 2	Geotube® No. 3	Geotube® No. 4	Geotube® No. 5	Geotube® No. 6	Geotube® No. 8	Geotube® No. 9	Geotube® No. 10	Geotube® No. 11	Geotube® No. 12	Geotube® No. 13
			Height, feet											
9/24/04 13:40	990		2.75	4.25	5.25	5.1	5.2	5.1	4.1	4.8	4.25	5.5	4.1	5.2
9/24/04 14:15	1060													
9/24/04 14:40	0													
Weekly total flow, gal		3,476,273												
Average daily flow, gpd		695,255												

Lower Fox River OU1 2004 Remedial Action: Geotube® Utilization--Volume and Percent Solids, 9/24/04

Geotube No. 1 60 ft. x 60 ft.	Geotube No. 2 60 ft. x 80 ft.	Geotube No. 3 60 ft. x 145 ft.	Geotube No. 4 60 ft. x 145 ft.	Geotube No. 5 60 ft. x 145 ft.	Geotube No. 6 60 ft. x 145 ft.	Geotube No. 7 60 ft. x 145 ft.	
							
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	
9/9/04	8/31/04	9/8/04	9/10/04	9/10/04	9/21/04		**Total Geotube Volume, yd^3**
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	
D, E	D, E, A	D, E, A	D, E, A	D, E, A	A		**6563**
Status	Status	Status	Status	Status	Status	Status	
Inactive	Topping off	Topping off	Active	Active	Active		
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	
61.9% (9/24)	45.2% (9/24)	40.0% (9/24)	42.6% (9/24)	34.1% (9/24)	59.4% (9/24)		
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	**Insitu Volume Removed, yd^3**
192	327	767	767	778	519		
Geotube No. 8 60 ft. x 80 ft.	Geotube No. 9 60 ft. x 145 ft.	Geotube No. 10 60 ft. x 145 ft.	Geotube No. 11 60 ft. x 145 ft.	Geotube No. 12 60 ft. x 145 ft.	Geotube No. 13 60 ft. x 145 ft.	Geotube No. 14 60 ft. x 145 ft.	
							
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	
9/1/04	9/1/04	9/2/04	9/7/04	9/12/04	9/16/04		**Geotube Bulking Factor**
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Percent Utilization	
D, E	D, E	D, E	D, E, A	A	A		
Status	Status	Status	Status	Status	Status	Status	
Inactive	Inactive	Inactive	Topping off	Active	Active		
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	
47.6% (9/24)	45.8% (9/24)	61.4% (9/24)	48.5% (9/24)	results pending	72.3% (9/24)		
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	
310	627	552	810	443	471		

Lower Fox River OU1 2004 Remedial Action
Total Suspended Solids Analyses
9-18-04 through 9-24-04

INFRASTRUCTURE ALTERNATIVES

Surface Water Near Dredge (SP-1)		
Sample Identification	Sample Date & Time	TSS, mg/L
South (mechanical)	9/21/04 9:50	40
North (mechanical)	9/21/04 9:55	70
North	9/21/04 10:21	40
South	9/21/04 10:35	40
South (hydraulic)	9/22/04 10:38	20
South (mechanical)	9/22/04 10:23	20
North (mechanical)	9/23/04 13:38	150
North	9/23/04 11:23	<10
South	9/23/04 12:17	20

Geotube Weep (SP-5)		
Geotube No.	Sample Date	TSS, mg/L
2	9/21/04	80
	9/23/04	60
3	9/20/04	60
	9/21/04	40
	9/23/04	20
4	9/20/04	20
	9/21/04	20
	9/22/04	<20
	9/23/04	20
5	9/20/04	60
	9/21/04	20
	9/22/04	31
	9/23/04	60
6	9/22/04	30
	9/23/04	60
11	9/20/04	30
	9/21/04	40
	9/23/04	20
12	9/20/04	40
	9/21/04	40
	9/22/04	40
13	9/20/04	40
	9/21/04	40
	9/22/04	60

Carriage Water (SP-7)		
Sample Start Date & Time	Sample Stop Date & Time	TSS, mg/L
9/17/04 20:45	9/20/04 13:20	20
9/20/04 17:45	9/20/04 22:00	40
9/20/04 22:00	9/21/04 7:20	60
9/21/04 7:20	9/21/04 19:30	240

(Continued) Carriage Water (SP-7)		
Sample Start Date & Time	Sample Stop Date & Time	TSS, mg/L
9/21/04 19:30	9/22/04 8:20	20
9/22/04 8:30	9/22/04 20:40	20
9/22/04 20:40	9/23/04 9:00	30
9/23/04 9:00	9/23/04 20:25	40
9/23/04 20:25	9/24/04 9:05	20
9/24/04 9:05	9/24/04 15:40	40

Sludge Tank Return (SP-8)		
Sample Start Date & Time	Sample Stop Date & Time	TSS, mg/L
9/20/04 22:00	(grab)	60
9/22/04 8:30	9/22/04 17:25	691
9/22/04 17:25	9/22/04 20:40	10
9/23/04 7:45	9/23/04 21:19	40
9/24/04 8:00	9/24/04 15:35	40

Sandfloat Effluent (SP-10)	
Sample Date	TSS, mg/L
9/20/04	20
9/21/04	20
9/22/04	10
9/23/04	30
9/24/04	20

Lead GAC Unit Effluent East train (SP-11E)	
Sample Date	TSS, mg/L
9/20/04	20
9/21/04	<20
9/22/04	20
9/23/04	40
9/24/04	20

Lead GAC Unit Effluent West train (SP-11W)	
Sample Date	TSS, mg/L
9/20/04	<10
9/21/04	40
9/22/04	30
9/23/04	10
9/24/04	<20

Lower Fox River OU1 2004 Remedial Action
Percent Solids Analyses
9-18-04 through 9-24-04 *page 1 of 2*

INFRASTRUCTURE ALTERNATIVES

Dredge Slurry Prior to Chemical Injection (SP-2)			
Sample Start Date & Time	Sample Stop Date & Time	% Solids	% Volatile
9/20/04 13:25	9/20/04 17:45	0.83	
9/20/04 13:30	(grab)	1.21	
9/21/04 7:55	1/0/00 12:00	1.64	
9/20/04 0:00	9/20/04 22:05	0.76	
9/21/04 1705	9/21/04 22:00	1.22	
9/21/04 14:05	9/21/04 17:00	0.87	
9/21/04 8:00	9/21/04 13:25	0.27	
9/22/04 8:05	9/22/04 12:30	1.70	7.7
9/22/04 12:30	9/22/04 16:15	1.43	12.5
9/22/04 16:15	9/16/04 20:15	0.98	
9/22/04 20:45	9/22/04 22:35	0.33	12.5
9/23/04 7:40	9/23/04 12:40	0.61	
9/23/04 12:40	9/23/04 16:30	0.83	14.3
9/23/04 16:34	9/23/04 20:23	0.67	
9/23/04 20:25	9/23/04 21:05	1.2	10.0
9/24/04 7:52	9/24/04 15:30	1.42	10.8
9/24/04 12:40	9/24/04 16:30	0.89	

Geotube Contents (SP-6)				
Geotube No.	Sample Date	(-port)	% Solids	% Volatile
1	9/20/04	mid	58.3	
	9/21/04	mid	58.08	3.31
	9/22/04	mid	63.3	
	9/23/04	mid	65.1	
	9/24/04	mid	61.9	
2	9/20/04	mid	27.2	4.94
	9/21/04	far	21.2	
	9/21/04	mid	41.8	
	9/23/04		41.2	
	9/24/04	far	45.2	
3	9/20/04	mid	32.3	
	9/20/04	far	6.03	
	9/21/04	mid	30.1	
	9/21/04	far	9.39	
	9/22/04	far	28.50	7.92
	9/22/04	mid	27.30	
	9/24/04	mid	40.0	5.80
4	9/20/04	far	27.4	
	9/20/04	mid	25.7	
	9/21/04	mid	31.23	
	9/21/04	far	3.8	
	9/24/04	mid	42.6	
5	9/20/04	mid	20.4	9.12
	9/21/04	mid	11.1	
	9/21/04	far	3.3	
	9/23/04	mid	39.9	
	9/24/04	mid	34.1	2.63
6	09/24/2004	mid	59.4	2.19

Lower Fox River OU1 2004 Remedial Action
Percent Solids Analyses
9-18-04 through 9-24-04 *page 2 of 2*

INFRASTRUCTURE ALTERNATIVES

(Continued) Geotube Contents
(SP-6)

Geotube No.	Sample Date	(-port)	% Solids	% Volatile
8	9/20/04	mid	40.2	
	9/21/04	far	22.1	6.72
	9/22/04	far	45.5	
	9/23/04	far	43.1	
	9/24/04	far	47.6	
9	9/20/04	far	38.5	5.13
	9/21/04	far	36.94	
	9/22/04	far	38.31	
	9/23/04	far	40.0	
	9/24/04	far	45.8	
10	9/20/04	fill	61.4	
	9/21/04	fill	59.26	2.49
	9/21/04	fill	57.70	
	9/23/04	fill	57.5	
	9/24/04	fill	61.4	
11	9/20/04	mid	41.0	
	9/20/04	far	41.3	
	9/21/04	mid	38.3	4.47
	9/21/04	far	38.8	
	9/23/04	mid	45.4	
	9/24/04	mid	48.5	4.22
12	9/20/04	fill	92.8	
13	9/20/04		71.5	0.65
	9/22/04	fill	71.81	
	9/24/04	fill	72.3	1.52

Sludge Tank Return
(SP-8)

Start date, time	Stop date, time	% Solids
9/21/04 10:55	9/21/04 22:00	5.5
9/24/04 8:00	**09/24/2004 15:35**	**0.004**

Emboldened results were tested for TSS (mg/L); results were changed to % S using 10,000 mg/L TSS = 1 % S conversion.

Lower Fox River OU1 2004 Remedial Action
Grain Size Analyses
9-18-04 through 9-24-04

INFRASTRUCTURE ALTERNATIVES

Dredge Slurry Prior to Chemical Injection (SP-2)

Sample start date & time	Sample stop date & time	Soil Classification, %						
		Gravel		Sand			Silt	Clay
		Coarse	Fine	Coarse	Medium	Fine		
9/20/04 8:00	9/20/04 13:25	0.0	0.0	0.0	2.7	16.2	0.0	0.0
9/20/04 13:30	(grab)	0.0	0.0	0.0	4.2	8.4	0.0	0.0
9/21/04 7:55	9/21/04 12:00	0.0	0.0	0.0	2.4	13.8	0.0	0.0
9/23/04 16:34	9/23/04 20:23	0.0	0.0	0.0	1.2	17.3	0.0	0.0
9/24/04 7:52	9/24/04 15:30	0.0	0.0	0.0	1.3	3.8	0.0	0.0

Geotube Contents (SP-6)

Geotube No.	Sample Date (-port)	Soil Classification, %						
		Gravel		Sand			Silt	Clay
		Coarse	Fine	Coarse	Medium	Fine		
1	09/20/2004	0.0	1.1	2.5	4.0	13.9	0.0	0.0
2	9/20/04 (mid)	0.0	0.0	0.1	0.9	14.9	0.0	0.0
	9/24/04 (far)	0.0	0.0	0.1	0.5	13.2	0.0	0.0
3	9/20/04 (mid)	0.0	0.0	0.4	3.3	35.0	0.0	0.0
	9/20/04 (far)	0.0	0.0	0.2	2.5	22.2	0.0	0.0
	9/21/04 (far)	0.0	0.0	0.0	0.9	19.9	0.0	0.0
	9/21/04 (mid)	0.0	0.0	0.0	1.2	23.1	0.0	0.0
	9/24/04 (mid)	0.0	2.2	0.0	1.0	23.2	0.0	0.0
4	9/20/04 (far)	0.0	0.0	0.0	0.9	15.2	0.0	0.0
	9/20/04 (mid)	0.0	0.0	0.2	2.6	24.1	0.0	0.0
	9/24/04 (mid)	0.0	0.0	0.1	0.3	15.2	0.0	0.0
5	9/20/04 (mid)	0.0	0.0	0.0	1.1	17.6	0.0	0.0
	9/20/04 (far)	0.0	0.0	0.0	4.5	32.2	0.0	0.0
	9/23/04 (mid)	0.0	8.5	0.0	0.7	15.0	0.0	0.0
	9/24/04 (mid)	0.0	0.1	0.1	0.9	21.6	0.0	0.0
6	9/24/04 (mid)	0.0	0.0	0.1	1.3	78.4	0.0	0.0
8	9/20/04 (mid)	0.0	0.0	0.1	0.5	16.5	0.0	0.0
10	9/20/04	0.0	0.6	1.4	1.6	3.0	0.0	0.0
11	9/20/04 (mid)	0.0	0.0	0.1	0.9	14.7	0.0	0.0
	9/20/04 (far)	0.0	0.0	0.1	0.7	25.7	0.0	0.0
	9/24/04 (mid)	0.0	0.2	0.1	0.3	6.9	0.0	0.0
12	9/20/04 (fill)	19.1	64.5	8.0	2.6	4.7	1.1	0.0
13	9/20/04 (mid)	0.0	0.0	0.0	1.8	78.5	0.0	0.0
	9/24/04 (fill)	0.0	0.0	0.0	5.2	83.5	0.0	0.0

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (soils and slurries)
9-18-04 through 9-24-04

Dredge Slurry Prior to Chemical Injection (SP-2)		
Sample Start Date & Time	Sample Stop Date & Time	Total PCBs, ug/kg
9/20/04 8:00	9/20/04 13:25	1900
9/20/04 13:25	9/20/04 17:45	180
9/20/04 13:30	(grab)	130
9/21/04 7:55	9/21/04 12:00	310
9/21/04 17:05	9/21/04 22:00	440
9/22/04 8:05	9/22/04 12:30	250
9/22/04 16:15	9/22/04 20:15	530
9/23/04 7:40	9/23/04 12:40	320
9/23/04 16:34	9/23/04 20:23	660
9/24/04 7:52	9/24/04 15:30	170

Geotube Contents (SP-6)		
Geotube No.	Sample Date (port-)	Total PCBs, ug/kg
1	9/20/04	46
2	9/20/04 (mid)	130
3	9/20/04 (far)	650
	9/20/04 (mid)	470
4	9/20/04 (far)	85
	9/20/04 (mid)	230
5	9/20/04 (mid)	130
	9/20/04 (far)	320
6	9/24/04 (mid)	350
8	9/20/04 (mid)	63
10	9/20/04	49
11	9/20/04 (mid)	130
	9/20/04 (far)	71
12	9/20/04 (front)	<27
13	9/20/04 (mid)	130

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (aqueous samples)
9-18-04 through 9-24-04

Carriage Water (SP-7)		
Sample Start Date & Time	Sample Stop Date & Time	PCBs, ppb
9/17/04 20:45	9/20/04 13:20	< 0.26
9/20/04 22:00	9/21/04 7:20	< 0.26
9/22/04 8:30	9/22/04 20:40	< 0.25
9/22/04 20:40	9/23/04 9:00	< 0.26
9/23/04 20:25	9/24/04 4:05	< 0.30

Sandfloat Effluent (SP-10)	
Sample Date	PCBs, ppb
9/20/04	< 0.26
9/21/04	< 0.26
9/22/04	< 0.32
9/23/04	< 0.26
9/24/04	< 0.26

Lead GAC Unit Effluent East train (SP-11E)	
Sample Date	PCBs, ppb
9/20/04	< 0.25
9/21/04	< 0.25
9/22/04	< 0.26
9/23/04	< 0.25
9/24/04	< 0.26

Lead GAC Unit Effluent West train (SP-11W)	
Sample Date	PCBs, ppb
9/20/04	< 0.25
9/21/04	< 0.26
9/22/04	< 0.26
9/23/04	< 0.26
9/24/04	< 0.26

Lower Fox River OU1 2004 Remedial Action
Geotube Height, Flow Received
9-27-04 through 10-01-04

Sample Point 4 (SP-4): Measurement of Geotube® Height, Dredge Flow to Geotubes®

Legend	
	Dredge start
	Geotube online (valve open)
	Estimated dredge flow

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube® No. 1	Geotube® No. 2	Geotube® No. 3	Geotube® No. 4	Geotube® No. 5	Geotube® No. 6	Geotube® No. 8	Geotube® No. 9	Geotube® No. 10	Geotube® No. 11	Geotube® No. 12	Geotube® No. 13	Geotube® No. 14	Geotube® No. D1
			Height, feet													
9/27/04 7:40	0		4.25 / 2.75	4.5 / 3.5	4.75 / 4.25	5.5 / 3.5	5.75 / 2	5 / 0.25	5 / 4	5.5 / 4.5						
9/27/04 8:10	1025															
9/27/04 8:25	980															
9/27/04 8:55	940															
9/27/04 9:10	950															
9/27/04 10:00	940															
9/27/04 10:30	950															
9/27/04 10:45			4.25 / 2.75	4.5 / 3.5	4.75 / 4.25	5.5 / 3.5	5.75 / 2	5.5 / 3.5	5 / 4	5.5 / 4.5	5 / 3.5	5 / 3.5	4.5 / 2.5	5.5		
9/27/04 11:00	950															
9/27/04 11:02	0															
9/27/04 11:25																
9/27/04 12:00	930															
9/27/04 12:17			4.25 / 2.75	4.5 / 3.5	4.75 / 4.25	5.5 / 3.5	5.75 / 2	5.5	5 / 4	5.5 / 4.5	5 / 3.5	5 / 3.5	4.5 / 2.5	5.5	0	
9/27/04 13:00	890															
9/27/04 13:30	885															
9/27/04 14:00	890	1,045,835														
9/27/04 14:20	865															
9/27/04 15:00	870															
9/27/04 15:35	845															
9/27/04 16:09	840															
9/27/04 16:11	830															
9/27/04 16:30	820															
9/27/04 16:50	830															
9/27/04 17:30	780															
9/27/04 18:30	9801															
9/27/04 19:00	1120															
9/27/04 19:15	1110															
9/27/04 20:00	1120															
9/27/04 20:30	1200															
9/27/04 21:40	1240															
9/27/04 22:30	0															
9/28/04 7:30	0		3.75 / 2.75	4.75 / 2.75	5.5 / 4	5.5 / 3.5	5.5 / 3	5.75 / 3	4.25 / 3.25	4.75 / 4	4.25 / 3.25	5.5 / 4	4.5 / 3.75	5.5 / 2.5	2.5 / 0.5	
9/28/04 8:15	1050															
9/28/04 9:00	950															
9/28/04 10:00	800															
9/28/04 11:00	750		3.75 / 2.75	6 / 5.75	5.5 / 4	5.5 / 3.5	5.5 / 3	5.75 / 3	4.25 / 3.25	4.75 / 4	4.25 / 3.25	5.5 / 4	6	5.5 / 2.5	3	
9/28/04 11:30	810															
9/28/04 12:00	760															
9/28/04 12:30	830															
9/28/04 13:00	830															

Lower Fox River OU1 2004 Remedial Action
Geotube Height, Flow Received
9-27-04 through 10-01-04

INFRASTRUCTURE ALTERNATIVES

Sample Point 4 (SP-4): Measurement of Geotube® Height, Dredge Flow to Geotubes®

Legend	
	Dredge start
	Geotube online (valve open)
	Estimated dredge flow

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube® No. 1	Geotube® No. 2	Geotube® No. 3	Geotube® No. 4	Geotube® No. 5	Geotube® No. 6	Geotube® No. 8	Geotube® No. 9	Geotube® No. 10	Geotube® No. 11	Geotube® No. 12	Geotube® No. 13	Geotube® No. 14	Geotube® No. D1
			Height, feet													
9/28/04 13:30	840	817,950														
9/28/04 14:00	800															
9/28/04 14:30	840															
9/28/04 15:00	840															
9/28/04 16:30	1010															
9/28/04 17:40	1020															
9/28/04 18:20	1140															
9/28/04 19:40	1080															
9/28/04 20:30	1110															
9/28/04 21:30	1000															
9/28/04 22:43	0															
09/29/2004 7:15	0		4.25 / 2.5	5.5 / 4	5.5 / 3.75	5.5 / 3.75	5.75 / 2.75	6 / 3.5	4.5 / 3.5	4.5 / 3.75	4.25 / 3.5	5.5 / 3.75	5.75 / 3	5.5 / 4	5 / 1.25	0
9/29/04 7:40	850															
9/29/04 8:30	860															
9/29/04 9:00	780															
9/29/04 9:55	790															
9/29/04 10:00	0															
9/29/04 10:25	750															
9/29/04 11:00	760															
9/29/04 11:35	800		4.25 / 2.5	5.5 / 4	5.5 / 3.75	5.5 / 3.75	5.75 / 2.75	6 / 3.5	4.5 / 3.5	4.5 / 3.75	4.25 / 3.5	5.5 / 3.75	6	5.5 / 4	5 / 1.25	3.5
9/29/04 12:15	840	739,460														
9/29/04 13:05	0															
9/29/04 13:20	820															
9/29/04 14:00	1020															
9/29/04 15:45	1100															
9/29/04 16:30	1052															
9/29/04 17:00	1080															
9/29/04 17:30	1080															
9/29/04 18:10	1080															
9/29/04 19:25	1090															
9/29/04 21:15	0															
9/30/04 7:15	0		4 / 2	5.5 / 3.75	5.5 / 3.25	5.5 / 3.75	5.75 / 2.75	6 / 3	4.5 / 3.25	5 / 4	4 / 3.5	5.75 / 4	6 / 4.5	5.5 / 3.25	4.25 / 1.75	3.75 / 1
9/30/04 7:40	1120															
9/30/04 8:30	920															
9/30/04 9:15	740															
9/30/04 10:20	660															
9/30/04 10:50	640															
9/30/04 11:15	710															
9/30/04 12:00	1100		4 / 2	5.5 / 3.75	5.5 / 3.25	5.5 / 4	5.75 / 2.75	6 / 3	4.5 / 3.25	5 / 4	4 / 3.5	5.75 / 4	6 / 4.5	5.5 / 3.25	4.5 / 3	3.75 / 1.25
9/30/04 12:45	940															

Lower Fox River OU1 2004 Remedial Action
Geotube Height, Flow Received
9-27-04 through 10-01-04

Sample Point 4 (SP-4): Measurement of Geotube® Height, Dredge Flow to Geotubes®

Legend	
	Dredge start
	Geotube online (valve open)
	Estimated dredge flow

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube® No. 1	Geotube® No. 2	Geotube® No. 3	Geotube® No. 4	Geotube® No. 5	Geotube® No. 6	Geotube® No. 8	Geotube® No. 9	Geotube® No. 10	Geotube® No. 11	Geotube® No. 12	Geotube® No. 13	Geotube® No. 14	Geotube® No. D1
			Height, feet													
9/30/04 13:30	1030															
9/30/04 14:00		755,775														
9/30/04 14:30	0															
9/30/04 16:20	925															
9/30/04 16:55	980															
9/30/04 17:00	1090															
9/30/04 18:00	1050															
9/30/04 20:20	1100															
9/30/04 22:00	0															
9/30/04 22:20																
9/30/04 22:40	1170															
9/30/04 22:45	0															

Weekly total flow, gal	3,359,020
Average daily flow, gpd	839,755

Lower Fox River OU1 2004 Remedial Action: Geotube® Utilization--Volume and Percent Solids, 10/1/04

INFRASTRUCTURE ALTERNATIVES

Geotube No. 1 60 ft. x 60 ft.	Geotube No. 2 60 ft. x 80 ft.	Geotube No. 3 60 ft. x 145 ft.	Geotube No. 4 60 ft. x 145 ft.	Geotube No. 5 60 ft. x 145 ft.	Geotube No. 6 60 ft. x 145 ft.	Geotube No. 7 60 ft. x 145 ft.	Total Geotube Volume, yd^3
							6824
							Insitu Volume Removed, yd^3
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	
9/9/04	8/31/04	9/8/04	9/10/04	9/10/04	9/21/04	10/1/04	
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Geotube Bulking Factor
D, E	D, E, A	D, E, A	D, E, A	D, E, A	A	A	
Status	Status	Status	Status	Status	Status	Status	
Inactive	Topping off	Topping off	Active	Active	Active	Active	
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	
65.3% (10/1)	46.3% (10/1)	40.4% (tube avg-10/1)	59.5% (10/1)	35.4% (10/1)	68.5% (10/1)	*pending*	
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	
171	310	559	809	496	396	*pending*	

Geotube No. 8 60 ft. x 80 ft.	Geotube No. 9 60 ft. x 145 ft.	Geotube No. 10 60 ft. x 145 ft.	Geotube No. 11 60 ft. x 145 ft.	Geotube No. 12 60 ft. x 145 ft.	Geotube No. 13 60 ft. x 145 ft.	Geotube No. 14 60 ft. x 145 ft.	Geotube No. D1 60 ft. x 175 ft.
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
9/1/04	9/1/04	9/2/04	9/7/04	9/12/04	9/16/04	9/28/04	9/29/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	D, E	D, E	D, E, A	A	A	A	A
Status	Status	Status	Status	Status	Status	Status	Status
Inactive	Inactive	Inactive	Topping off	Active	Active	Active	Active
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
42.9% (9/29)	44.4% (9/30)	61.4% (9/30)	44.5% (9/29)	61.4% (9/30)	80.6% (9/30)	57.0% (10/1)	*pending*
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
289	627	578	534	678	614	391	372

Lower Fox River OU1 2004 Remedial Action
Total Suspended Solids Analyses
9-27-04 through 10-01-04

INFRASTRUCTURE ALTERNATIVES

Surface Water Near Dredge (SP-1)		
Sample Identification	Sample Date & Time	TSS, mg/L
South	9/27/04 11:36	30
North	9/27/04 11:21	10
South	9/29/04	20
North	9/29/04 11:46	10
South	9/28/04 11:40	40
North	9/28/04 11:38	30
South, hydraulic	9/30/04 10:50	20
North, hydraulic	9/30/04 10:30	30
North, hydraulic	10/1/04 10:45	60
South, hydraulic	10/1/04 11:03	40

Geotube Weep (SP-5)		
Geotube No.	Sample Date	TSS, mg/L
4	9/27/04	50
	9/30/04	100
12	9/28/04	20
	9/30/04	100
13	9/27/04	40
6	9/27/04	20
14	9/28/04	20
	9/30/04	105
D1	9/30/04	20

Carriage Water (SP-7)		
Sample Start Date & Time	Sample Stop Date & Time	TSS, mg/L
9/24/04 16:30	9/27/04 7:30	20
9/27/04 7:30	9/27/04 19:30	20
9/28/04 7:40	9/28/04 19:35	10
9/28/04 19:35	9/29/04 8:00	20
9/29/04 20:00	9/30/04 8:30	20
9/30/04 8:30	9/30/04 17:00	89
9/30/04 14:00	(grab--Lebster)	20
10/1/04 15:42	10/1/04 20:53	80

Sludge Tank Return (SP-8)		
Sample Start Date & Time	Sample Stop Date & Time	TSS, mg/L
9/27/04 8:00	9/27/04 20:30	30
9/29/04 8:00	9/29/04 20:05	<20
9/30/04 8:55	9/30/04 14:40	120
10/1/04 15:45	10/1/04 20:50	40

Sandfloat Effluent (SP-10)	
Sample Date	TSS, mg/L
9/27/04	<10
9/28/04	10
9/29/04	<10
9/30/04 11:45	20
9/30/04 14:00	<20
10/1/04	10

Lead GAC Unit Effluent East train (SP-11E)	
Date	TSS, mg/L
9/27/04	10
9/28/04	10
9/29/04	<10
9/30/04	20
10/1/04	30

Lead GAC Unit Effluent West train (SP-11W)	
Date	TSS, mg/L
9/27/04	20
9/28/04	20
9/29/04	<10
9/30/04	20
10/1/04	40

Lag GAC Unit Effluent East train (SP-12E)	
Date	TSS, mg/L
9/30/04	30
10/1/04	30

Lag GAC Unit Effluent West train (SP-12W)	
Date	TSS, mg/L
9/30/04	20
10/1/04	30

Lower Fox River OU1 2004 Remedial Action
Percent Solids Analyses
9-27-04 through 10-01-04 *page 1 of 2*

Dredge Slurry Prior to Chemical Injection (SP-2)			
Start date, time	Stop date, time	% Solids	% Volatile
9/27/04 8:10	9/27/04 12:20	1.57	10.6
9/27/04 12:20	9/27/04 16:00	2.12	8.0
9/27/04 16:00	9/27/04 22:00	1.73	12.7
9/28/04 8:17	9/28/04 14:40	1.04	12.2
9/28/04 14:45	9/28/04 18:36	1.71	10.3
9/28/04 18:40	9/28/04 22:45	1.29	10.8
9/29/04 7:52	9/29/04 11:52	1.95	12.3
9/29/04 11:55	9/29/04 16:00	1.09	14.3
9/29/04 16:00	9/29/04 22:10	2.06	11.8
9/30/04 7:50	9/30/04 12:00	1.11	4.21
9/30/04 12:00	9/30/04 17:05	0.28	0.0
9/30/04 17:05	9/30/04 20:18	0.21	0.0
9/30/04 20:18	9/30/04 22:45	0.71	
10/1/04 7:40	10/1/04 15:40	0.76	13.6
10/1/04 15:40	10/1/04 19:40	0.22	11.1

Geotube Contents (SP-6)				
Geotube No.	Date	(-port)	% Solids	% Volatile
1	9/27/04	fill	60.7	
	9/27/04	mid	61.6	
	9/28/04	fill	60.2	
2	9/27/04	far	40.2	
	10/1/04	far	46.3	
3	9/27/04	mid	42.2	
	9/28/04	mid	41.6	
4	9/27/04	mid	46.9	
	9/28/04	mid	39.6	4.88
5	9/27/04	mid	41.3	
	9/28/04	mid	36.2	5.63
	10/1/04	mid	35.4	
6	9/27/04	mid	68.3	
	9/28/04	mid	64.1	2.31
	10/1/04	mid	68.5	2.57
8	9/27/04	far	36.8	
	9/28/04	fill	60.0	
	9/28/04	far	48.2	
	9/29/04	far	42.9	
	9/30/04	mid&far	48.5	
	10/1/04	far	43.0	
9	9/27/04	far	40.5	
	9/28/04	far	40.1	
	10/1/04	far	40.5	
10	9/27/04	fill	61.5	
	9/28/04	fill	58.0	
	10/1/04	fill	66.2	

Lower Fox River OU1 2004 Remedial Action
Percent Solids Analyses
9-27-04 through 10-01-04 *page 2 of 2*

Geotube Contents (SP-6)				
Geotube No.	Date	(-port)	% Solids	% Volatile
11	9/27/04	mid	48.6	
	9/27/04	far	43.9	
	9/28/04	mid	46.1	2.70
	9/28/04	far	46.1	5.01
	9/29/04	mid	44.5	
	9/30/04	mid	44.0	
	10/1/04	mid	48.1	
13	9/27/04	fill	72.9	
	9/28/04	fill	73.4	1.83

Lower Fox River OU1 2004 Remedial Action
Grain Size Analyses
9-27-04 through 10-01-04

INFRASTRUCTURE ALTERNATIVES

Dredge Slurry Prior to Chemical Injection (SP-2)

Sample start date & time	Sample stop date & time	Soil Classification, %						
		Gravel		Sand			Silt	Clay
		Coarse	Fine	Coarse	Medium	Fine		
9/27/04 12:20	9/27/04 16:00	0.0	0.0	0.0	0.5	1.8	0.0	0.0
9/28/04 8:17	9/28/04 14:40	0.0	0.0	0.0	2.8	9.4	0.0	0.0
9/29/04 7:52	9/29/04 11:52	0.0	0.0	0.0	0.0	2.9	0.0	0.0
9/30/04 7:50	9/30/04 12:00	0.0	0.0	0.0	0.7	4.9	0.0	0.0
10/1/04 7:40	10/1/04 15:40	0.0	0.0	0	1.7	5.1	0.0	0.0

Geotube Contents (SP-6)

Geotube No.	Sample Date (-port)	Soil Classification, %						
		Gravel		Sand			Silt	Clay
		Coarse	Fine	Coarse	Medium	Fine		
4	9/28/04 (mid)	0.0	0.0	0.0	0.4	20.4	0.0	0.0
	10/1/04 (mid)	0.0	0.0	0.0	2.4	69.6	0.0	0.0
5	9/28/04 (mid)	0.0	0.0	0.0	0.7	33.0	0.0	0.0
6	9/28/04 (mid)	0.0	0.0	0.1	1.5	81.7	0.0	0.0
11	9/28/04 (far)	0.0	0.0	0.0	0.6	29.3	0.0	0.0
	9/28/04 (mid)	0.0	0.0	0.0	0.6	21.7	0.0	0.0
12	9/30/04 (fill)	0.0	0.0	0.1	1.8	76.5	0.0	0.0
13	9/28/04 (fill)	0.0	0.0	0.0	4.8	81.2	0.0	0.0
14	9/30/04 (fill)	0.0	0.7	0.6	1.8	77.8	0.0	0.0
	10/1/04 (fill)	0.0	3.6	0.6	1.7	68.6	0.0	0.0

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (soils and slurries)
9-27-04 through 10-01-04

Dredge Slurry Prior to Chemical Injection (SP-2)		
Sample Start Date & Time	Sample Stop Date & Time	Total PCBs, ug/kg
9/27/04 8:10	9/27/04 12:20	99
9/27/04 16:00	9/27/04 22:23	170
9/28/04 8:17	9/28/04 14:40	260
9/28/04 18:40	9/28/04 22:45	100
9/29/04 7:52	9/29/04 11:52	260
9/29/04 16:00	9/29/04 22:10	180
9/30/04 7:50	9/30/04 12:00	120
9/30/04 17:05	9/30/04 20:18	<190
10/1/04 7:40	10/1/04 15:40	750
10/1/04 15:40	10/1/04 19:40	160

Geotube Contents (SP-6)		
Geotube No.	Sample Date (port)	Total PCBs, ug/kg
1	9/27/04 (mid)	<27
2	9/27/04 (far)	110
3	9/27/04 (mid)	310
4	9/27/04 (mid)	140
5	9/27/04 (mid)	320
6	9/27/04 (mid)	110
10	9/27/04 (front)	89
11	9/27/04 (far)	96
	9/27/04 (mid)	90
12	9/30/04 (front)	160
13	9/27/04 (front)	170
14	9/30/04 (front)	160

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (aqueous samples)
9-27-04 through 10-01-04

Carriage Water (SP-7)		
Sample Start Date & Time	Sample Stop Date & Time	PCBs, ug/L
9/24/04 16:30	9/27/04 7:30	
9/27/04 7:30	9/27/04 19:30	< 0.25
9/28/04 7:40	9/28/04 19:36	< 0.24
9/28/04 19:35	9/29/04 8:00	< 0.25
9/29/04 20:00	9/30/04 8:30	< 0.25
10/1/04 15:42	10/1/04 20:53	< 0.26

Sandfloat Effluent (SP-10)	
Sample Date	PCBs, ug/L
9/27/04	< 0.24
9/28/04	< 0.24
9/29/04	< 0.25
9/30/04	< 0.25
10/1/04	< 0.25

Lead GAC Unit Effluent East train (SP-11E)	
Sample Date	PCBs, ug/L
9/27/04	< 0.24
9/28/04	< 0.24
9/29/04	< 0.25
9/30/04	< 0.25
10/1/04	< 0.25

Lead GAC Unit Effluent West train (SP-11W)	
Sample Date	PCBs, ug/L
9/27/04	< 0.24
9/28/04	< 0.24
9/29/04	< 0.25
9/30/04	< 0.25
10/1/04 0:00	< 0.25

Lower Fox River OU1 2004 Remedial Action
10-4-04 through 10-8-04

INFRASTRUCTURE ALTERNATIVES

Dredge Flow to Geotubes®

Legend	
	Dredge start
	Geotube online (valve open)
	Estimated dredge flow

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube® No. 1	Geotube® No. 2	Geotube® No. 3	Geotube® No. 4	Geotube® No. 5	Geotube® No. 6	Geotube® No. 7	Geotube® No. 8	Geotube® No. 9	Geotube® No. 10	Geotube® No. 11	Geotube® No. 12	Geotube® No. 13	Geotube® No. 14	Geotube® No. D1	Geotube® No. D2	Geotube® No. D3
			Height, feet																
10/4/04 8:39	989																		
10/4/04 9:39	981																		
10/4/04 10:39	973																		
10/4/04 10:59	0																		
10/4/04 12:43	895																		
10/4/04 13:45	1133																		
10/4/04 14:00	1268																		
10/4/04 14:14	0	397,408																	
10/4/04 15:55	1106																		
10/4/04 16:10	0																		
10/4/04 17:44	636																		
10/4/04 18:46	1133																		
10/4/04 19:30																			
10/4/04 19:47	1032																		
10/4/04 20:30	0																		
10/6/04 8:00	1106																		
10/6/04 8:45																			
10/6/04 9:00	971																		
10/6/04 9:30																			
10/6/04 10:00	1170																		
10/6/04 10:30																			
10/6/04 11:00	1065																		
10/6/04 11:25	0																		
10/6/04 11:57	1106																		
10/6/04 12:52	1277																		
10/6/04 13:50	1070																		
10/6/04 14:00																			
10/6/04 14:20																			
10/6/04 14:50	1079																		
10/6/04 15:20		992,053																	
10/6/04 15:51	1134																		
10/6/04 16:00	0																		
10/6/04 16:15	1144																		
10/6/04 16:30	0																		
10/6/04 17:00	1208																		
10/6/04 18:06	1046																		
10/6/04 18:30																			
10/6/04 19:00	1142																		
10/6/04 20:01	1081																		
10/6/04 20:25																			
10/6/04 21:05	1129																		
10/6/04 22:05	1145																		
10/6/04 23:08	1093																		
10/7/04 0:06	1117																		

Lower Fox River OU1 2004 Remedial Action
10-4-04 through 10-8-04

INFRASTRUCTURE ALTERNATIVES

Dredge Flow to Geotubes®

Legend	
	Dredge start
	Geotube online (valve open)
	Estimated dredge flow

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube® No. 1	Geotube® No. 2	Geotube® No. 3	Geotube® No. 4	Geotube® No. 5	Geotube® No. 6	Geotube® No. 7	Geotube® No. 8	Geotube® No. 9	Geotube® No. 10	Geotube® No. 11	Geotube® No. 12	Geotube® No. 13	Geotube® No. 14	Geotube® No. D1	Geotube® No. D2	Geotube® No. D3
			Height, feet																
10/7/04 1:06	1074																		
10/7/04 1:45	0																		
10/7/04 2:13	1028																		
10/7/04 3:15	1051																		
10/7/04 3:28	0																		
10/7/04 4:29	1107																		
10/7/04 5:15	0																		
10/7/04 5:45	1098																		
10/7/04 6:20																			
10/7/04 6:45	0																		
10/7/04 8:02	1156																		
10/7/04 9:02	1072																		
10/7/04 10:00	0																		
10/7/04 10:25	1090																		
10/7/04 11:10																			
10/7/04 11:24	1003	1,213,621																	
10/7/04 12:00																			
10/7/04 12:26	978																		
10/7/04 13:01	0																		
10/07/2004 14:29	1113																		
10/07/2004 14:52																			
10/7/04 15:31	1045																		
10/7/04 15:50	0																		
10/7/04 16:14	1039																		
10/7/04 17:16	1084																		
10/7/04 18:14	1144																		
10/7/04 19:14	1082																		
10/7/04 19:30																			
10/7/04 20:15	1075																		
10/7/04 21:15	1059																		
10/7/04 22:17	1071																		
10/7/04 23:16	1158																		
10/8/04 0:20	0																		
10/8/04 0:47	1091																		
10/8/04 1:47	1040																		
10/8/04 2:45	1067																		
10/8/04 3:20	0																		
10/8/04 4:34	1035																		
10/8/04 5:10																			
10/8/04 5:42	1069																		
10/8/04 6:03	0																		
10/8/04 6:29	1056																		
10/8/04 6:56	0																		
10/8/04 7:50	1150																		

Lower Fox River OU1 2004 Remedial Action
10-4-04 through 10-8-04

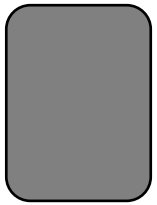
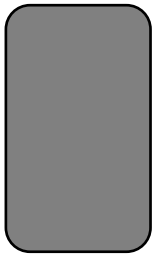
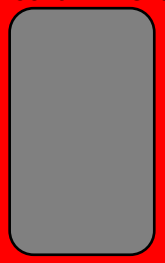
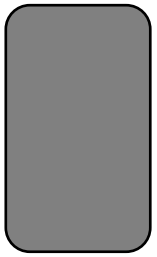
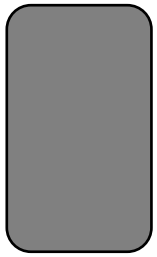
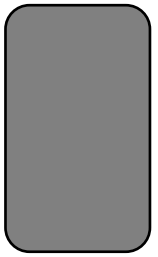
INFRASTRUCTURE ALTERNATIVES

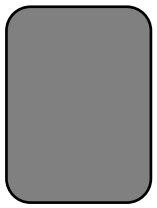
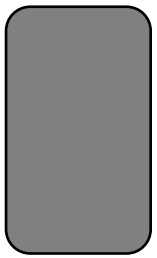
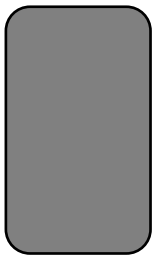
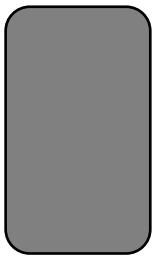
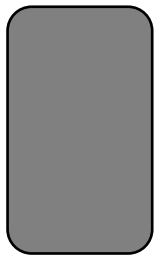
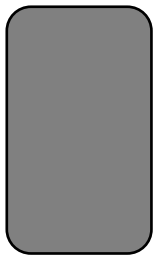
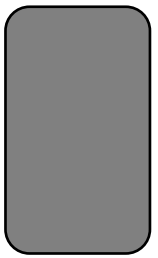
Dredge Flow to Geotubes®

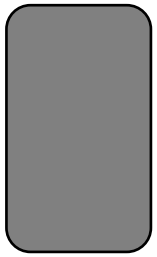
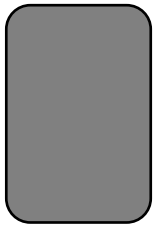
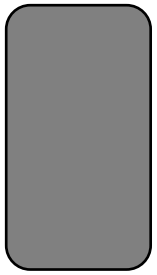
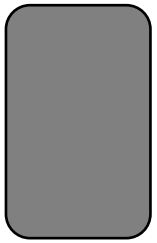
Legend	
	Dredge start
	Geotube online (valve open)
	Estimated dredge flow

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube® No. 1	Geotube® No. 2	Geotube® No. 3	Geotube® No. 4	Geotube® No. 5	Geotube® No. 6	Geotube® No. 7	Geotube® No. 8	Geotube® No. 9	Geotube® No. 10	Geotube® No. 11	Geotube® No. 12	Geotube® No. 13	Geotube® No. 14	Geotube® No. D1	Geotube® No. D2	Geotube® No. D3
			Height, feet																
10/8/04 8:03	0	637,006																	
10/8/04 9:09	1045																		
10/8/04 9:55	1084																		
10/8/04 10:13	0																		
10/8/04 12:40	1161																		
10/8/04 13:41	1081																		
10/8/04 14:15	0																		
10/8/04 15:17	1037		DATA UNAVAILABLE																
10/8/04 15:33	0																		
10/8/04 17:29	1112																		
10/8/04 17:51	0																		
10/8/04 18:06	1065																		
10/8/04 19:05	1042																		
10/8/04 19:26	0																		
10/8/04 20:18	1034																		
10/8/04 20:43	0																		
Weekly total flow, gal		3,240,088																	
Daily average flow, gpd		810,022																	

INFRASTRUCTURE ALTERNATIVES

Geotube No. 1 60 ft. x 60 ft.	Geotube No. 2 60 ft. x 80 ft.	Geotube No. 3 60 ft. x 145 ft.	Geotube No. 4 60 ft. x 145 ft.	Geotube No. 5 60 ft. x 145 ft.	Geotube No. 6 60 ft. x 145 ft.	Geotube No. 7 60 ft. x 145 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
9/9/04	8/31/04	9/8/04	9/10/04	9/10/04	9/21/04	10/1/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	D, E, A-4	D, E, A-4, A-8	D, E, A-4, A-8	D, E, A-4, A-8	A-4, A-8	A-4, A-8
Status	Status	Status	Status	Status	Status	Status
Inactive	Topping off	Topping off	Inactive	Active	Active	Active
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
56.8%	48.8%	46.5%	59.5% (10/1)	41.1%	71.4% (10/4)	32.3%
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
181	331	609	809	684	778	743

Geotube No. 8 60 ft. x 80 ft.	Geotube No. 9 60 ft. x 145 ft.	Geotube No. 10 60 ft. x 145 ft.	Geotube No. 11 60 ft. x 145 ft.	Geotube No. 12 60 ft. x 145 ft.	Geotube No. 13 60 ft. x 145 ft.	Geotube No. 14 60 ft. x 145 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
9/1/04	9/1/04	9/2/04	9/7/04	9/12/04	9/16/04	9/28/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	D, E	D, E	D, E, A-4, A-8	A-4, A-8	A-4, A-8	A-4, A-8
Status	Status	Status	Status	Status	Status	Status
Inactive	Inactive	Inactive	Topping off	Active	Active	Active
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
48.2%	46.6%	61.8%	40.7%	72.3%	74.6%	73.8% (10/4)
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
310	731	612	762	902	751	790

Geotube No. D1 60 ft. x 175 ft.	Geotube No. D2 60 ft. x 116 ft.	Geotube No. D3 60 ft. x 200 ft.	Geotube No.B1 60 ft. x 110 ft.	
				Total Geotube Volume, yd^3
				11,083
				Insitu Volume Removed, yd^3
Placed Online	Placed Online	Placed Online	Placed Online	
10/4/04	10/6/04	10/8/04	10/11/04	
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Geotube Bulking Factor
A-8	A-8	A-8	A-8	
Status	Status	Status	Status	
Active	Active	Active	Active	
Percent Solids	Percent Solids	Percent Solids	Percent Solids	
43.1%	24.9%	29.8%	*pending*	
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	
726	481	881	nominal	

Notes
Geotubes placed in the "ditch" on the north and east sides of the lay-down area are given the prefix 'D' and are numbered in the order that they were placed in service.
Geotubes on the second tier are given the prefix 'B' and are assigned numbers based on the order that they were placed in service (for example, the first second layer Geotubes is given the name 'B1.')

Lower Fox River OU1 2004 Remedial Action
Total Suspended Solids Analyses
10-4-04 through 10-8-04

INFRASTRUCTURE ALTERNATIVES

Surface Water Near Dredge (SP-1)		
Sample Identification	Sample Date & Time	TSS, mg/L
North (downstream), hydraulic	10/6/04 9:24	10
South (upstream), hydraulic	10/6/04 9:49	20
North, hydraulic	10/7/04 10:11	20
South, hydraulic	10/7/04 11:34	90

Geotube Weep (SP-5)		
Geotube No.	Sample Date	TSS, mg/L
4	10/4/04	109
6	10/6/04	44
7	10/6/04	40
12	10/4/04	229
13	10/4/04	100
	10/6/04	60
14	10/6/04	<10
D1	10/6/04	260

Carriage Water (SP-7)		
Sample Start Date & Time	Sample Stop Date & Time	TSS, mg/L
10/1/04 21:00	10/4/04 8:40	20
10/4/04 8:40	10/5/04 6:00	20
10/5/04 10:25	10/5/04 19:05	20
10/5/04 19:05	10/6/04 7:10	30
10/6/04 7:10	10/6/04 19:20	20
10/8/04 8:25	10/8/04 20:40	20

Sandfloat Effluent (SP-10)	
Sample Date	TSS, mg/L
10/4/04	30
10/6/04	10

Lead GAC Unit Effluent East train (SP-11E)	
Sample Date	TSS, mg/L
10/4/04	20
10/6/04	20

Lead GAC Unit Effluent West train (SP-11W)	
Sample Date	TSS, mg/L
10/4/04	30
10/6/04	20

Lead GAC Unit Effluent East train (SP-12E)	
Sample Date	TSS, mg/L
10/4/04	10
10/6/04	5

Lead GAC Unit Effluent West train (SP-12W)	
Sample Date	TSS, mg/L
10/4/04	20
10/6/04	5

Lower Fox River OU1 2004 Remedial Action
Percent Solids Analyses
10-4-04 through 10-8-04

INFRASTRUCTURE ALTERNATIVES

Dredge Slurry Prior to Chemical Injection (SP-2)			
Sample Start Date & Time	Sample Stop Date & Time	% Solids	% Volatile
10/4/04 8:40	10/4/04 10:55	0.76	
10/4/04 12:40	10/4/04 20:41	1.40	
10/4/04 12:40	10/4/04 18:50	0.10	
10/6/04 8:05	10/6/04 12:50	7.16	9.93
10/6/04 17:00	10/6/04 21:45	7.52	12.3
10/6/04 21:45	10/7/04 2:10	6.08	13.96
10/8/04 18:07	10/8/04 20:40	6.56	11.2

Geotube Contents (SP-6)				
Geotube No.	Date	(-port)	% Solids	% Volatile
1	10/4/04	mid	56.7	
2	10/4/04	far	49.0	
3	10/4/04	mid	41.8	
5	10/4/04	mid	50.2	
6	10/4/04	mid	71.4	
8	10/4/04	mid	63.6	
9	10/4/04	far	44.7	
10	10/4/04	fill	62.7	
11	10/4/04	mid	46.1	
14	10/4/04	fill	73.8	2.41

Sludge Tank Return (SP-8)			
Start date, time	Stop date, time	% Solids	% Volatile
10/6/04 11:30	10/7/04 5:20	2.09	4.00

Lower Fox River OU1 2004 Remedial Action
Grain Size Analyses
10-04-04 through 10-08-04

INFRASTRUCTURE ALTERNATIVES

Dredge Slurry Prior to Chemical Injection
(SP-2)

Sample start date & time	Sample stop date & time	Soil Classification, %						
		Gravel		Sand			Silt	Clay
		Coarse	Fine	Coarse	Medium	Fine		
10/4/04 8:40	10/4/04 10:55	0.0	0.0	0.0	2.2	20.5	0.0	0.0
10/6/04 8:05	10/6/04 12:50	0.0	0.0	0.0	1.9	3.9	0.0	0.0
10/6/04 21:45	10/7/04 2:10	0.0	0.0	0.0	0.4	4.8	0.0	0.0
10/7/04 2:10	10/7/04 9:10	0.0	0.0	0.0	1.2	5.4	0.0	0.0
############	10/8/04 14:05	0.0	0.0	0.5	1.7	5.7	0.0	0.0

Geotube Contents
(SP-6)

Geotube No.	Sample Date (-port)	Soil Classification, %						
		Gravel		Sand			Silt	Clay
		Coarse	Fine	Coarse	Medium	Fine		
11	10/7/04	0.0	0.0	0.0	1.0	23.3	0.0	0.0
12	10/7/04	0.0	0.0	0.0	3.5	82.7	0.0	0.0
13	10/7/04	0.0	0.0	0.0	4.2	80.3	0.0	0.0
14	10/4/04 (fill)	0.0	4.7	1.2	4.5	77.5	0.0	0.0

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (soils and slurries)
10-4-04 through 10-8-04

Dredge Slurry Prior to Chemical Injection (SP-2)		
Sample Start Date & Time	Sample Stop Date & Time	Total PCBs, ug/kg
10/4/04 8:40	10/4/04 10:55	1300
10/6/04 8:05	10/6/04 12:50	1600
10/6/04 21:45	10/7/04 2:10	4200
10/7/04 2:10	10/7/04 9:10	2700
10/7/04 16:34	10/7/04 20:18	660
10/8/04 5:40	10/8/04 14:05	4700

Geotube Contents (SP-6)		
Geotube No.	Sample Date (port-)	Total PCBs, ug/kg
1/3/00 0:00	10/4/04 (mid)	200
1/5/00 0:00	10/4/04 (mid)	400
1/6/00 0:00	10/4/04 (mid)	230
1/11/00 0:00	10/4/04 (mid)	150
	10/7/04	150
1/12/00 0:00	10/7/04	170
1/13/00 0:00	10/7/04	160
1/14/00 0:00	10/4/04 (fill)	230

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (aqueous samples)
10-4-04 through 10-8-04

Carriage Water (SP-7)		
Sample Start Date & Time	Sample Stop Date & Time	Total PCBs, ug/L
10/1/04 21:00	10/4/04 8:40	
10/4/04 8:10	10/5/04 6:00	
10/5/04 19:05	10/6/04 7:10	
10/6/04 19:30	10/7/04 8:35	
10/6/04 12:40	10/7/04 8:00	< 0.25
10/7/04 8:35	10/7/04 21:45	
10/7/04 21:45	10/8/04 8:25	

Sandfloat Effluent (SP-10)	
Sample Date	Total PCBs, ug/L
10/8/04	< 0.25

Lead GAC Unit Effluent East train (SP-11E)	
Sample Date	Total PCBs, ug/L
10/8/04	< 0.25

Lead GAC Unit Effluent West train (SP-11W)	
Sample Date	Total PCBs, ug/L
10/8/04	< 0.25

Lower Fox River OU1 2004 Remedial Action
10-11-04 through 10-15-04

INFRASTRUCTURE ALTERNATIVES

Dredge flow to Geotubes®

Legend	
	Dredge start
	Geotube online (valve open)
	Assumed Geotube online (data unavailable)

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube® No. 1	Geotube® No. 2	Geotube® No. 3	Geotube® No. 4	Geotube® No. 5	Geotube® No. 6	Geotube® No. 7	Geotube® No. 8	Geotube® No. 9	Geotube® No. 10	Geotube® No. 11	Geotube® No. 12	Geotube® No. 13	Geotube® No. 14	Geotube® No. D1	Geotube® No. D2	Geotube® No. D3	Geotube® No. B1	Geotube® No. B2	Geotube® No. B3	Geotube® No. B4
			Height, feet																				
10/11/04 7:59	1001																						
10/11/04 8:45	971																						
10/11/04 9:30	1047																						
10/11/04 10:07	0																						
10/11/04 10:24	1067																						
10/11/04 11:00	899																						
10/11/04 11:30	900																						
10/11/04 11:50	935																						
10/11/04 12:30	900																						
10/11/04 12:50	900																						
10/11/04 13:15	1000																						
10/11/04 13:37	0																						
10/11/04 14:04	1007																						
10/11/04 15:04	1097																						
10/11/04 15:26	1080																						
10/11/04 16:30	1115																						
10/11/04 16:43	0																						
10/11/04 16:46	1162	680,014																					
10/11/04 16:55	1120																						
10/11/04 17:06	1000																						
10/11/04 17:30	1077																						
10/11/04 17:40	1080																						
10/11/04 18:00	1100																						
10/11/04 18:15	1000																						
10/11/04 18:34	1070																						
10/11/04 18:45	1079																						
10/11/04 19:20	1050																						
10/11/04 19:45	1050																						
10/11/04 20:03	1055																						
10/11/04 20:15	0																						
10/11/04 20:50	1098																						
10/11/04 21:10	1020																						
10/11/04 21:30	0																						
10/11/04 22:25	1130																						
10/11/04 22:35	0																						
10/12/04 12:10	1040																						
10/12/04 13:10	1182																						
10/12/04 13:28	0																						
10/12/04 13:38	1151																						
10/12/04 14:28	1031																						
10/12/04 15:28	940																						
10/12/04 15:33	0																						
10/12/04 16:24	1013																						
10/12/04 16:59	858	409,723																					
10/12/04 17:06	0																						
10/12/04 17:54	1126																						
10/12/04 18:54	1184																						
10/12/04 19:47	0																						
10/12/04 20:00	1081																						
10/12/04 20:20	0																						

Lower Fox River OU1 2004 Remedial Action
10-11-04 through 10-15-04

Dredge flow to Geotubes®

Legend
Dredge start
Geotube online (valve open)
Assumed Geotube online (data unavailable)

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube® No. 1	Geotube® No. 2	Geotube® No. 3	Geotube® No. 4	Geotube® No. 5	Geotube® No. 6	Geotube® No. 7	Geotube® No. 8	Geotube® No. 9	Geotube® No. 10	Geotube® No. 11	Geotube® No. 12	Geotube® No. 13	Geotube® No. 14	Geotube® No. D1	Geotube® No. D2	Geotube® No. D3	Geotube® No. B1	Geotube® No. B2	Geotube® No. B3	Geotube® No. B4
			Height, feet																				
10/12/04 20:59	1068																						
10/12/04 21:07	0																						
10/13/04 8:26	956																						
10/13/04 9:26	1044																						
10/13/04 10:26	1113																						
10/13/04 11:10	0																						
10/13/04 11:19	1139																						
10/13/04 12:19	1050																						
10/13/04 13:00	1050																						
10/13/04 13:33	1040																						
10/13/04 14:10	0																						
10/13/04 14:24	1017																						
10/13/04 15:13	1040																						
10/13/04 15:54	0																						
10/13/04 16:04	1200	912,365																					
10/13/04 16:24	1130																						
10/13/04 17:04	1150																						
10/13/04 17:30	1200																						
10/13/04 18:07	1200																						
10/13/04 18:25	1100																						
10/13/04 19:15	1060																						
10/13/04 19:50	0																						
10/13/04 20:15	1010																						
10/13/04 20:51	1080																						
10/13/04 21:08	970																						
10/13/04 22:00	1165																						
10/13/04 22:15	1111																						
10/13/04 22:30	0																						
10/14/04 7:55	1020	164,686																					
10/14/04 8:55	937																						
10/14/04 9:55	1042																						
10/14/04 10:17	0																						
10/14/04 12:58	990																						
10/14/04 13:12	0																						
10/14/04 16:48	972																						
10/14/04 17:02	0																						

Weekly total flow, gal	2,166,788
Average daily flow, gpd	541,697

Lower Fox River OU1 2004 Remedial Action
Total Suspended Solids Analyses
10-11-04 through 10-15-04

INFRASTRUCTURE ALTERNATIVES

Surface Water Near Dredge (SP-1)		
Sample Identification	Sample Date & Time	TSS, mg/L
south, upstream	10/11/04 11:18	90
north, downstream	10/11/04 10:58	40
south	10/12/04 11:46	109
north	10/12/04 12:35	40
north, hydraulic	10/13/04	20
south, hydraulic	10/13/04	50

Geotube Weep (SP-5)		
Geotube No.	Sample Date	TSS, mg/L
3	10/12/04	167
5	10/12/04	20
6	10/13/04	40
7	10/12/04	439
B1	10/12/04	10
	10/13/04	40
B4	10/12/04	40
D2	10/12/04	167

Carriage Water (SP-7)		
Sample Start Date & Time	Sample Stop Date & Time	TSS, mg/L
10/8/04 20:40	10/11/04 8:00	30
10/11/04 8:00	10/11/04 20:25	47
10/11/04 20:30	10/12/04 11:10	80
10/12/04 11:10	10/13/04 7:40	10
10/13/04 8:05	10/13/04 22:13	20
10/13/04 22:15	10/14/04 10:20	<20
10/14/04 16:15	(grab)	13
10/14/04 10:20	10/14/04 19:00	60
10/14/04 19:00	10/15/04 8:25	40
10/15/04 8:30	10/15/04 15:25	40

Sandfloat Effluent (SP-10)	
Sample Date	TSS, mg/L
10/11/04	<2.5
10/12/04	2.5
10/13/04	5
10/14/04 15:10	40
10/14/04 16:15	5

Lead GAC Unit Effluent East train (SP-11E)	
Sample Date	TSS, mg/L
10/11/04	2.5
10/12/04	<2.5
10/13/04	7.5

(Continued) Lead GAC Unit Effluent East train (SP-11E)	
Sample Date	TSS, mg/L
10/14/04	<20

Lead GAC Unit Effluent West train (SP-11W)	
Sample Date	TSS, mg/L
10/11/04	5
10/12/04	<2.5
10/13/04	5
10/14/04	20

Lag GAC Unit Effluent East train (SP-12E)	
Sample Date	TSS, mg/L
10/11/04	5
10/12/04	5
10/13/04	<2.5
10/14/04	<20

Lag GAC Unit Effluent West train (SP-12W)	
Sample Date	TSS, mg/L
10/11/04	<2.5
10/12/04	7.5
10/13/04	5
10/14/04	<20

Lower Fox River OU1 2004 Remedial Action
Percent Solids Analyses
10-11-04 through 10-15-04 *page 1 of 2*

INFRASTRUCTURE ALTERNATIVES

Dredge Slurry Prior to Chemical Injection (SP-2)			
Sample Start Date & Time	Sample Stop Date & Time	% Solids	% Volatile
10/11/04 7:55	10/11/04 11:50	7.78	8.8
10/11/04 11:50	10/11/04 16:30	4.63	8.7
10/11/04 16:30	10/11/04 20:25	5.35	9.5
10/11/04 20:35	10/11/04 22:35	5.48	
10/13/04 8:30	10/13/04 14:25	5.57	14.2
10/13/04 14:25	10/13/04 19:00	2.85	20.0
10/13/04 19:00	10/13/04 22:50	4.33	16.3

Geotube Contents (SP-6)				
Geotube No.	Sample Date	(-port)	% Solids	% Volatile
1	10/11/04	fill	56.8	
	10/13/04	A	54.5	3.74
	10/13/04	B	45.7	3.96
1A (tubelet)	10/13/04		73.6	2.61
1B (tubelet)	10/13/04		59.1	3.93
2	10/11/04	far	48.8	
3	10/11/04	mid	46.5	7.8
5	10/11/04	mid	41.1	
7	10/11/04	mid	36.6	8.35
	10/11/04	far	32.3	8.16
8	10/11/04	far	48.2	
	10/12/04	A	49.4	3.49
	10/12/04	B	46.3	3.94
	10/12/04	C	54.0	3.99
	10/12/04	D	44.2	6.38
9	10/11/04	far	46.6	
	10/12/04	A	62.8	3.02
	10/12/04	B	45.6	6.04
	10/12/04	C	64.6	2.98
10	10/11/04	front	61.8	
	10/12/04	A	48.8	4.19
	10/12/04	B	60.0	3.18
	10/12/04	C	47.6	4.25
11	10/11/04	mid	40.7	8.95
	10/11/04	far	47.5	4.95
	10/13/04	A	57.4	3.34
	10/13/04	B	48.4	6.73
	10/13/04	C	46.4	5.46
12	10/11/04	fill	80.4	1.79
	10/11/04	mid	72.3	2.94
	10/11/04	far	80.1	2.59
13	10/11/04	front	74.6	2.49
	10/11/04	mid	74.3	2.54
D1	10/11/04	far	43.1	12.7
D2	10/11/04	far	24.9	10.6
D3	10/11/04	front	29.8	9.67
	10/11/04	far	24.6	13.2

Lower Fox River OU1 2004 Remedial Action
Percent Solids Analyses
10-11-04 through 10-15-04 *page 2 of 2*

INFRASTRUCTURE ALTERNATIVES

Sludge Tank Return
(SP-8)

Sample Start Date & Time	Sample Stop Date & Time	% Solids	% Volatile
10/12/04 11:10	10/13/04 19:01	0.95	

Lower Fox River OU1 2004 Remedial Action
Grain Size Analyses
10-11-04 through 10-15-04

INFRASTRUCTURE ALTERNATIVES

Dredge Slurry Prior to Chemical Injection (SP-2)						
Sample start date & time	Sample stop date & time	Soil Classification, %				
		Cobbles	Gravel	Sand	Silt	Clay
10/11/04 11:50	10/11/04 16:30	0.0	0.0	3.8	43.0	53.2
10/12/04 13:10	10/12/04 16:36	0.0	0.0	6.7	42.0	51.3
10/13/04 19:00	10/13/04 22:50	0.0	0.0	22.2	46.6	31.2
10/14/04 7:55	10/14/04 13:25	0.0	0.0	1.9	27.4	70.7

Geotube Contents (SP-6)						
Geotube No.	Sample Date (-port)	Soil Classification, %				
		Cobbles	Gravel	Sand	Silt	Clay
1	10/13/04 (A)	0.0	0.6	32.2	25.2	42.0
	10/13/04 (B)	0.0	0.0	17.0	38.2	44.8
1A (tubelet)	10/13/04	0.0	2.5	82.3	6.8	8.4
1B (tubelet)	10/13/04	0.0	0.0	82.2	15.0	2.8
3	10/11/04 (mid)	0.0	0.0	33.4	47.6	19.0
5	10/11/04 (mid)	0.0	0.0	35.2	37.4	27.4
7	10/11/04 (mid)	0.0	0.0	33.4	37.3	29.3
	10/11/04 (far)	0.0	0.0	13.8	33.1	53.1
8	10/12/04 (A)	0.0	0.0	12.4	30.7	56.9
	10/12/04 (B)	0.0	0.0	13.3	29.3	57.4
	10/12/04 (C)	0.0	0.4	16.7	27.4	55.5
	10/12/04 (D)	0.0	0.0	4.8	24.1	71.1
9	10/12/04 (A)	0.0	4.9	7.0	25.0	63.1
	10/12/04 (B)	0.0	0.0	9.7	34.5	55.8
	10/12/04 (C)	0.0	0.0	7.5	26.3	66.2
10	10/12/04 (A)	0.0	0.0	16.4	29.1	54.5
	10/12/04 (B)	0.0	6.1	11.4	19.5	63.0
	10/12/04 (C)	0.0	0.0	12.5	28.7	58.8
11	10/11/04 (far)	0.0	0.0	36.0	47.2	16.8
	10/11/04 (mid)	0.0	0.0	19.8	36.0	44.2
	11/13/04 (B)	0.0	0.0	36.4	27.0	36.6
	11/13/04 (C)	0.0	1.7	12.3	18.4	67.6
12	10/11/04 (far)	0.0	0.0	86.9	9.3	3.8
	10/11/04 (fill)	0.0	0.0	89.5	6.0	4.5
	10/11/04 (mid)	0.0	12.1	71.9	8.1	7.9
13	10/11/04 (mid)	0.0	0.0	72.4	11.2	16.4
	10/11/04 (front)	0.0	0.0	80.1	8.7	11.2
D1	10/11/04 (far)	0.0	0.0	54.4	20.0	25.6
D2	10/11/04 (far)	0.0	0.0	16.3	39.2	44.5
D3	10/11/04 (far)	0.0	0.0	16.8	41.2	42.0

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (soils and slurries)
10-11-04 through 10-15-04

Dredge Slurry Prior to Chemical Injection (SP-2)		
Sample Start Date & Time	Sample Stop Date & Time	Total PCBs, ug/kg
10/11/04 11:50	10/11/04 16:30	2700
10/11/04 20:35	10/11/04 22:35	2500
10/12/04 13:10	10/12/04 16:36	1100
10/13/04 8:30	10/13/04 14:25	2200
10/13/04 15:00	10/13/04 22:50	1600

Geotube Contents (SP-6)		
Geotube No.	Sample date (-port)	Total PCBs, ug/Kg
1	10/13/04 (A)	150
	10/13/04 (B)	110
1A tubelet	10/13/04	130
1B tubelet	10/13/04	520
3	10/11/04 (mid)	260
5	10/11/04 (mid)	180
7	10/11/04 (mid)	2000
	10/11/04 (far)	1700
8	10/12/04 (A)	93
	10/12/04 (B)	120
	10/12/04 (C)	100
	10/12/04 (D)	130
9	10/12/04 (A)	86
	10/12/04 (B)	570
	10/12/04 (C)	65
10	10/12/04 (A)	99
	10/12/04 (B)	77
	10/12/04 (C)	140
11	10/11/04 (mid)	1600
	10/11/04 (far)	96
	10/13/04 (A)	130
	10/13/04 (B)	94
	10/13/04 (C)	180
12	10/11/04 (front)	50
	10/11/04 (mid)	210
	10/11/04 (far)	300
13	10/11/04 (front)	120
	10/11/04 (mid)	230
D1	10/11/04 (far)	2300
D2	10/11/04 (far)	2800
D3	10/11/04 (front)	2000
	10/11/04 (far)	1600

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (aqueous samples)
10-11-04 through 10-15-04

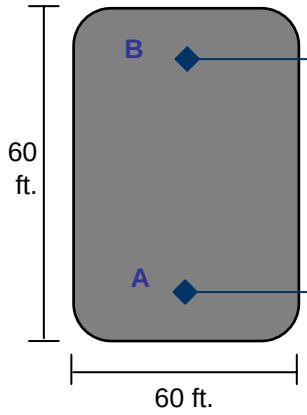
Carriage Water (SP-7)		
Sample Start Date & Time	Sample Stop Date & Time	Total PCBs, ug/L
10/11/04 20:30	10/12/04 11:10	< 0.25
10/12/04 11:10	10/13/04 7:40	< 0.26
10/13/04 15:45	10/14/04 8:30	< 0.26
10/14/04 19:00	10/15/04 8:25	< 0.26

Sandfloat Effluent (SP-10)	
Sample Date	Total PCBs, ug/L
10/11/04	< 0.25
10/12/04	< 0.25
10/13/04	< 0.25
10/14/04	< 0.25

Lead GAC Unit Effluent East train (SP-11E)	
Sample Date	Total PCBs, ug/L
10/11/04	< 0.25
10/12/04	< 0.25
10/13/04	< 0.25
10/14/04	< 0.26

Lead GAC Unit Effluent West train (SP-11W)	
Sample Date	Total PCBs, ug/L
10/11/04	< 0.25
10/12/04	< 0.25
10/13/04	< 0.25
10/14/04	< 0.25

Lower Fox River OU1 2004 Remedial Action: Geotube® No. 1
Percent Solids, Grain Size & Total PCBs



Soil classification
0.0% Cobbles
0.0% Gravel
17.0% Sand
38.2% Silt
44.8% Clay

45.7 Percent solids

110 Total PCBs, ug/Kg

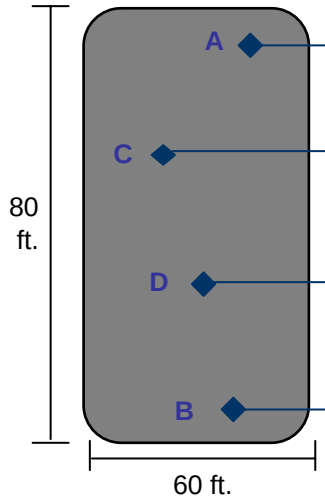
Soil classification
0.0% Cobbles
0.6% Gravel
32.2% Sand
25.2% Silt
42.0% Clay

54.5 Percent solids

Total PCBs, ug/Kg

50.1

Lower Fox River OU1 2004 Remedial Action: Geotube® No. 8
Percent Solids, Grain Size & Total PCBs



A

Soil classification

0.0%	Cobbles		
0.0%	Gravel	49.4	Percent solids
12.4%	Sand		
30.7%	Silt		Total PCBs, ug/L
56.9%	Clay		

C

Soil classification

0.0%	Cobbles		
0.4%	Gravel	54.0	Percent solids
16.7%	Sand		
27.4%	Silt		Total PCBs, ug/L
55.5%	Clay		

D

Soil classification

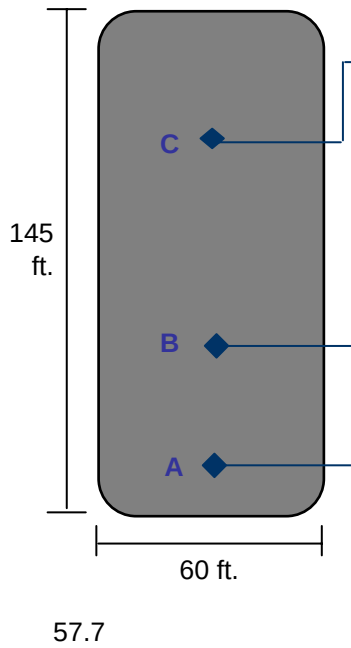
0.0%	Cobbles		
0.0%	Gravel	44.2	Percent solids
4.8%	Sand		
24.1%	Silt		Total PCBs, ug/L
71.1%	Clay		

B

Soil classification

0.0%	Cobbles		
0.0%	Gravel	46.3	Percent solids
13.3%	Sand		
29.3%	Silt		Total PCBs, ug/L
57.4%	Clay		

Lower Fox River OU1 2004 Remedial Action: Geotube® No. 9
Percent Solids, Grain Size & Total PCBs



Soil classification
0.0% Cobbles
0.0% Gravel
7.5% Sand
26.3% Silt
66.2% Clay

64.6 Percent solids

Total PCBs, ug/Kg

Soil classification
0.0% Cobbles
0.0% Gravel
9.7% Sand
34.5% Silt
55.8% Clay

45.6 Percent solids

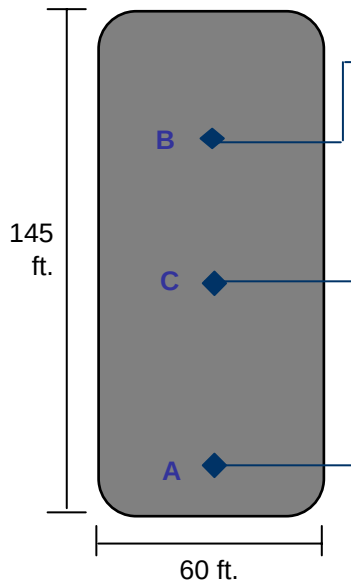
Total PCBs, ug/Kg

Soil classification
0.0% Cobbles
4.9% Gravel
7.0% Sand
25.0% Silt
63.1% Clay

62.8 Percent solids

86 Total PCBs, ug/Kg

Lower Fox River OU1 2004 Remedial Action: Geotube® No. 10
Percent Solids, Grain Size & Total PCBs



Soil classification
0.0% Cobbles
6.1% Gravel
11.4% Sand
19.5% Silt
63.0% Clay

60.0 Percent solids

77 Total PCBs, ug/Kg

Soil classification
0.0% Cobbles
0.0% Gravel
12.5% Sand
28.7% Silt
58.8% Clay

47.6 Percent solids

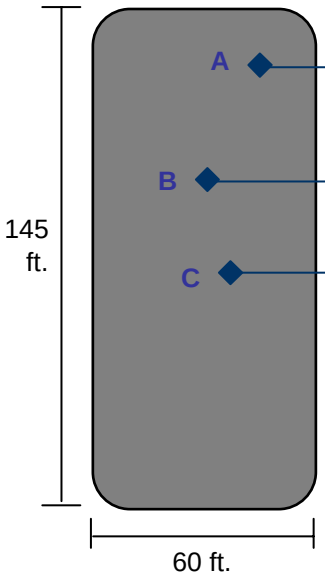
Total PCBs, ug/Kg

Soil classification
0.0% Cobbles
0.0% Gravel
16.4% Sand
29.1% Silt
54.5% Clay

48.8 Percent solids

99 Total PCBs, ug/Kg

Lower Fox River OU1 2004 Remedial Action: Geotube® No. 11
Percent Solids, Grain Size & Total PCBs



57.4 Percent solids

Total PCBs, ug/L

Soil classification

0.0%	Cobbles
0.0%	Gravel
36.4%	Sand
27.0%	Silt
36.6%	Clay

48.4 Percent solids

Total PCBs, ug/L

Soil classification

0.0%	Cobbles
1.7%	Gravel
12.3%	Sand
18.4%	Silt
67.6%	Clay

46.4 Percent solids

Total PCBs, ug/L

Lower Fox River OU1 2004 Remedial Action
10-11-04 through 10-15-04

Dredge flow to Geotubes®

Legend
Dredge start
Geotube online (valve open)
umed Geotube online (data unavaila

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube®																																								
			No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	No. 9	No. 10	No. 11	No. 12	No. 13	No. 14	No. 15	No. 16	No. 17	No. 18	No. 19	No. 20	No. D1	No. D2	No. D3	No. B1	No. B2	No. B3	No. B4	No. B5	No. B6	No. B7	No. B8	No. B9	No. B10	No. C1	No. C2	No. C3	No. E1
			Height, feet																																								
10/18/04 8:21	1062																																										
10/18/04 8:43	1230																																										
10/18/04 9:21	1002																																										
10/18/04 10:21	1082																																										
10/18/04 11:21	1045																																										
10/18/04 12:21	1060																																										
10/18/04 13:00	1115																																										
10/18/04 13:21	1063																																										
10/18/04 13:25	1110																																										
10/18/04 14:00	1150																																										
10/18/04 14:20	1100																																										
10/18/04 14:21	1114																																										
10/18/04 14:50	1070																																										
10/18/04 15:21	1002																																										
10/18/04 15:25	950																																										
10/18/04 16:14	980	907,828																																									
10/18/04 16:21	972																																										
10/18/04 16:32	1060																																										
10/18/04 17:21	950																																										
10/18/04 17:30	900																																										
10/18/04 17:39	1000																																										
10/18/04 17:50	1045																																										
10/18/04 18:21	961																																										
10/18/04 18:27	847																																										
10/18/04 18:35	938																																										
10/18/04 19:21	929																																										
10/18/04 20:21	768																																										
10/18/04 20:40	1020																																										
10/18/04 21:00	800																																										
10/18/04 21:21	812																																										
10/18/04 22:21	1033																																										
10/18/04 20:37	0																																										
10/19/04 7:42	1175																																										
10/19/04 7:51	0																																										
10/19/04 8:00	966																																										
10/19/04 8:30	710																																										
10/19/04 9:00	744																																										
10/19/04 9:30	760																																										
10/19/04 9:45	910																																										
10/19/04 10:00	991																																										
10/19/04 10:15	1080																																										
10/19/04 10:58	0																																										
10/19/04 11:38	1119																																										
10/19/04 11:55	1040																																										

Lower Fox River OU1 2004 Remedial Action
10-11-04 through 10-15-04

Dredge flow to Geotubes®

Legend
Dredge start
Geotube online (valve open)
umed Geotube online (data unavaila

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube® No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	No. 9	No. 10	No. 11	No. 12	No. 13	No. 14	No. 15	No. 16	No. 17	No. 18	No. 19	No. 20	No. D1	No. D2	No. D3	No. B1	No. B2	No. B3	No. B4	No. B5	No. B6	No. B7	No. B8	No. B9	No. B10	No. C1	No. C2	No. C3	No. E1
			Height, feet																																				
10/19/04 12:38	951																								D														
10/19/04 12:45	1050																										B	B	B										
10/19/04 13:15	1040																							D	D														
10/19/04 13:38	957																							D	D														
10/19/04 14:27	0																							D	D														
10/19/04 14:56	1067	688,789																						D	D														
10/19/04 15:56	823																							D	D														
10/19/04 16:57	0																							D	D														
10/19/04 17:16	872																								D														
10/19/04 17:20	620																						D	D	D														
10/19/04 17:32	775																						D		D														
10/19/04 17:42	958																								D														
10/19/04 18:16	859																														B								
10/19/04 19:16	976																										B				B								
10/19/04 20:00	942																								D			B	B		B								
10/19/04 20:16	844																											B	B		B								
10/19/04 20:25	937																											B	B		B								
10/19/04 20:50	0																											B	B		B								
10/19/04 21:34	802																									B					B								
10/19/04 21:40	970																								D						B								
10/19/04 21:50	990																								D			B											
10/19/04 22:00	984																								D														
10/19/04 22:15	975																								D														
10/19/04 22:26	0																																						
10/20/04 7:26	966																								D														
10/20/04 7:45	1060																								D														
10/20/04 8:26	1094																											B	B										
10/20/04 8:50	1000																								D				B										
10/20/04 9:15	960																										B												
10/20/04 9:26	1090																														B								
10/20/04 10:26	1038																														B								
10/20/04 11:11	0																																						
10/20/04 13:53	1121																	D									B												
10/20/04 14:53	1085																													B									
10/20/04 15:53	908																													B									
10/20/04 16:30	950																	D																					
10/20/04 16:53	1237	644,305																D																					
10/20/04 17:20	1024																	D												B	B								
10/20/04 17:40	806																													B									
10/20/04 17:53	1056																																						
10/20/04 18:20	840																	D																					
10/20/04 18:53	807																													B									
10/20/04 19:27	0																																						
10/20/04 20:49	906																	D												B									

Lower Fox River OU1 2004 Remedial Action
10-11-04 through 10-15-04

Dredge flow to Geotubes®

Legend
Dredge start
Geotube online (valve open)
umed Geotube online (data unavaila

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube® No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	No. 9	No. 10	No. 11	No. 12	No. 13	No. 14	No. 15	No. 16	No. 17	No. 18	No. 19	No. 20	No. D1	No. D2	No. D3	No. B1	No. B2	No. B3	No. B4	No. B5	No. B6	No. B7	No. B8	No. B9	No. B10	No. C1	No. C2	No. C3	No. E1
			Height, feet																																				
10/20/04 21:07	985																																						
10/20/04 21:16	1084																																						
10/20/04 21:26	0																																						
10/20/04 22:13	942																																						
10/20/04 22:35	0																																						
10/21/04 8:00	937																																						
10/21/04 8:05	950																																						
10/21/04 8:35	960																																						
10/21/04 9:00	1082																																						
10/21/04 9:10	1000																																						
10/21/04 10:00	1150																																						
10/21/04 10:10	1050																																						
10/21/04 10:40	1130																																						
10/21/04 11:00	1066																																						
10/21/04 11:25	850																																						
10/21/04 12:00	1162																																						
10/21/04 12:17	0																																						
10/21/04 12:37	881	686,424																																						
10/21/04 13:05	1080																																						
10/21/04 13:37	1003																																						
10/21/04 14:21	0																																						
10/21/04 14:30	989																																						
10/21/04 15:30	948																																						
10/21/04 16:30	975																																						
10/21/04 17:30	931																																						
10/21/04 18:30	996																																						
10/21/04 18:42	0																																						
10/21/04 20:35	953																																						
10/21/04 21:02	0																																						
10/21/04 21:29	949																																						
10/21/04 22:27	0																																						
10/22/04 7:29	1018																																						
10/22/04 8:00	1000																																						
10/22/04 8:29	1001																																						
10/22/04 8:45	1060																																						
10/22/04 9:29	1020																																						
10/22/04 9:50	1030																																						
10/22/04 10:29	1026																																						
10/22/04 10:40	1030																																						
10/22/04 11:29	1046																																						
10/22/04 11:48	0																																						
10/22/04 11:58	841																																						
10/22/04 12:45	945	611,704																																						
10/22/04 12:58	1023																																						

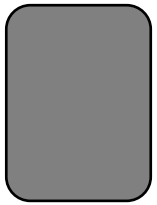
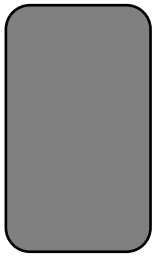
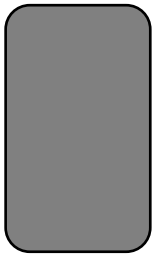
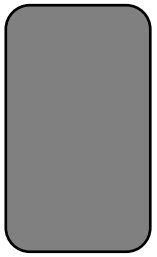
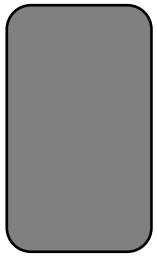
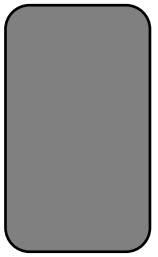
Lower Fox River OU1 2004 Remedial Action
10-11-04 through 10-15-04

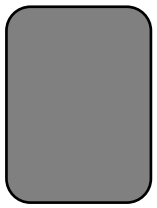
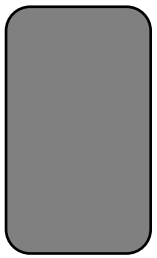
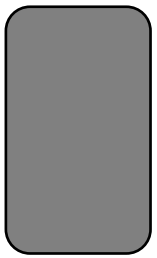
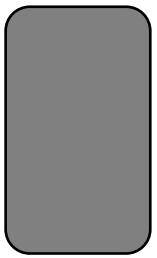
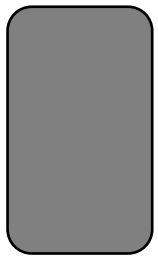
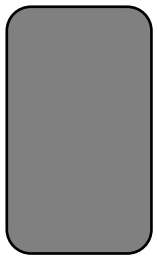
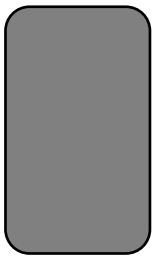
Dredge flow to Geotubes®

Legend
Dredge start
Geotube online (valve open)
umed Geotube online (data unavaila

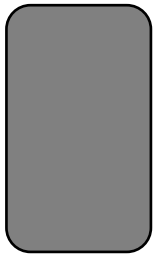
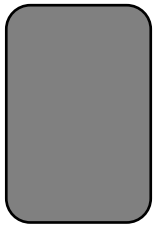
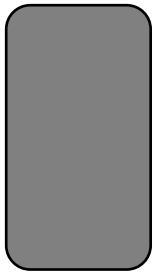
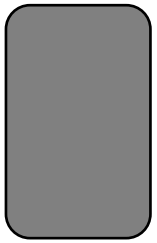
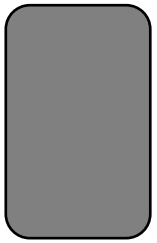
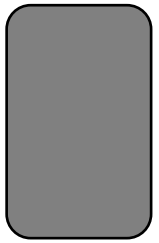
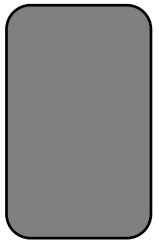
Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube®																																							
			No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	No. 9	No. 10	No. 11	No. 12	No. 13	No. 14	No. 15	No. 16	No. 17	No. 18	No. 19	No. 20	No. D1	No. D2	No. D3	No. B1	No. B2	No. B3	No. B4	No. B5	No. B6	No. B7	No. B8	No. B9	No. B10	No. C1	No. C2	No. C3	No. E1
			Height, feet																																							
10/22/04 13:58	1044																																									
10/22/04 14:58	1101																																									
10/22/04 15:58	1042																																									
10/22/04 16:20	1020																																									
10/22/04 16:40	1000																																									
10/22/04 16:58	992																																										
10/22/04 17:16	0																																									
10/22/04 17:51	1039																																									
10/22/04 18:05	1020																																									
10/22/04 18:17	0																																										
Weekly total flow, gal		3,539,050																																								
Daily average flow, gpd		707,810																																								

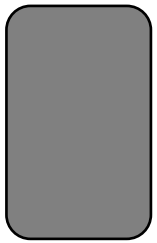
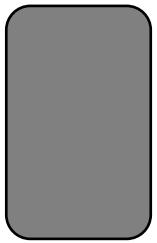
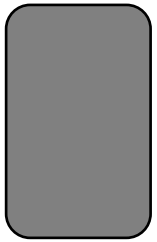
INFRASTRUCTURE ALTERNATIVES

Geotube No. 1 60 ft. x 60 ft.	Geotube No. 2 60 ft. x 80 ft.	Geotube No. 3 60 ft. x 145 ft.	Geotube No. 4 60 ft. x 145 ft.	Geotube No. 5 60 ft. x 145 ft.	Geotube No. 6 60 ft. x 145 ft.	Geotube No. 7 60 ft. x 145 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
9/9/04	8/31/04	9/8/04	9/10/04	9/10/04	9/21/04	10/1/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	D, E, A-4	D, E, A-4, A-8	D, E, A-4, A-8	D, E, A-4, A-8	A-4, A-8	A-4, A-8
Status	Status	Status	Status	Status	Status	Status
Inactive	Inactive	Topping off	Inactive	Topping off	Inactive	Inactive
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
56.8% (10/11)	46.2%	46.4% (Geotube avg)	59.5% (10/1)	41.1% (10/11)	71.4% (10/11)	32.3% (10/11)
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
224	367	890	809	843	878	798

Geotube No. 8 60 ft. x 80 ft.	Geotube No. 9 60 ft. x 145 ft.	Geotube No. 10 60 ft. x 145 ft.	Geotube No. 11 60 ft. x 145 ft.	Geotube No. 12 60 ft. x 145 ft.	Geotube No. 13 60 ft. x 145 ft.	Geotube No. 14 60 ft. x 145 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
9/1/04	9/1/04	9/2/04	9/7/04	9/12/04	9/16/04	9/28/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	D, E	D, E	D, E, A-4, A-8	A-4, A-8	A-4, A-8	A-4, A-8
Status	Status	Status	Status	Status	Status	Status
Inactive	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
48.2% (10/11)	46.6% (10/11)	61.8% (10/11)	40.7% (10/11)	72.3% (10/11)	74.6% (10/11)	73.8% (10/4)
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
377	619	587	877	836	801	693

INFRASTRUCTURE ALTERNATIVES

Geotube No. D1 60 ft. x 175 ft.	Geotube No. D2 60 ft. x 116 ft.	Geotube No. D3 60 ft. x 200 ft.	Geotube No.B1 60 ft. x 130 ft.	Geotube No.B2 60 ft. x 130 ft.	Geotube No.B3 60 ft. x 130 ft.	Geotube No.B4 60 ft. x 130 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
10/4/04	10/6/04	10/8/04	10/11/04	10/11/04	10/11/04	10/11/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
A-8	A-8	A-8	A-8	A-8	A-8	A-8
Status	Status	Status	Status	Status	Status	Status
Active	Active	Active	Active	Active	Active	Active
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
32.2%	32.2%	30.5% (Geotube avg)	20.8%	30.6%	24.6%	26.4%
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
818	715	800	539	404	404	472

Geotube No.B5 60 ft. x 130 ft.	Geotube No.B6 60 ft. x 130 ft.	Geotube No. 15 60 ft. x 30 ft.
		
Placed Online	Placed Online	Placed Online
10/18/04	10/18/04	10/18/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
POG2	POG2	POG2
Status	Status	Status
Active	Active	Active
Percent Solids	Percent Solids	Percent Solids
pending	*pending*	*pending*
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
nominal	*nominal*	*nominal*

Total Geotube Volume, yd^3
13,751
Insitu Volume Removed, yd^3
Geotube Bulking Factor

Notes
Geotubes placed in the "ditch" on the north and east sides of the lay-down area are given the prefix 'D' and are numbered in the order that they were placed in service.
Geotubes on the second tier are given the prefix 'B' and are assigned numbers in the order they were placed in service.

Lower Fox River OU1 2004 Remedial Action
Total Suspended Solids Analyses
10-18-04 through 10-22-04 *page 1 of 2*

INFRASTRUCTURE ALTERNATIVES

Surface Water Near Dredge (SP-1)		
Sample Identification	Sample Date & Time	TSS, mg/L
north, hydraulic	10/18/04 9:45	21
south, hydraulic	10/18/04 9:54	21
north, hydraulic	10/19/04 9:29	14
south, hydraulic	10/19/04 9:41	14.3
south	10/20/04 9:55	140
north	10/20/04 9:46	15

Geotube Weep (SP-5)		
Geotube No.	Date	TSS, mg/L
15	10/18/04	30
17	10/22/04	30
B1	10/18/04	40
	10/22/04	20
B2	10/18/04	20
	10/22/04	20
B3	10/18/04	40
B4	10/18/04	40
	10/22/04	40
B5	10/18/04	20
	10/22/04	30
B6	10/18/04	30
	10/22/04	<10

Carriage Water (SP-7)		
Sample Start Date & Time	Sample Stop Date & Time	TSS, mg/L
10/15/04 15:45	10/18/04 8:30	60
10/18/04 8:30	10/18/04 22:45	20
10/18/04 22:45	10/19/04 8:00	20
10/18/04 8:30	(grab)	80
10/18/04 11:45	(grab)	<7
10/18/04 15:30	(grab)	5
10/19/04 8:00	10/19/04 20:35	20
10/19/04 9:00	(grab)	27
10/19/04 11:30	(grab)	27
10/19/04 19:30	(grab)	66
10/19/04 20:35	10/20/04 7:50	20
10/20/04 9:00	(grab)	24
10/20/04 20:36	10/21/04 7:30	40
10/21/04 7:30	10/21/04 22:28	60
10/21/04 22:28	10/22/04 7:30	40
10/21/04	(grab)	30
10/22/04 7:30	10/22/04 18:30	<10

Sandfloat Effluent (SP-10)	
Sample Date	TSS, mg/L
10/18/04 8:30	13.3
10/18/04 10:30	10
10/18/04 11:45	5
10/18/04 15:38	5
10/18/04 18:00	10
10/19/04 9:00	8
10/19/04 11:30	15
10/19/04 13:25	10
10/19/04 19:30	40
10/20/04 9:00	10
10/20/04 13:30	5
10/20/04 14:10	15
10/21/04 11:30	40
10/21/04 14:35	27
10/22/04 13:15	5

Lead GAC Unit Effluent East train (SP-11E)	
Sample Date	TSS, mg/L
10/18/04	15
10/19/04	15
10/20/04	15
10/21/04	30
10/22/04	<5

Lead GAC Unit Effluent West train (SP-11W)	
Sample Date	TSS, mg/L
10/18/04	15
10/19/04	15
10/20/04	5
10/21/04	40
10/22/04	5

Lag GAC Unit Effluent East train (SP-12E)	
Sample Date	TSS, mg/L
10/18/04	12
10/19/04	10
10/20/04	10
10/21/04	23
10/22/04	<5

Lag GAC Unit Effluent West train (SP-12W)	
Sample Date	TSS, mg/L
10/18/04	10
10/19/04	15
10/20/04	5

Lower Fox River OU1 2004 Remedial Action
Total Suspended Solids Analyses
10-18-04 through 10-22-04 *page 2 of 2*

(Continued) Lag GAC Unit Effluent West train (SP-12W)	
Sample Date	TSS, mg/L
10/21/04	13
10/22/04	15

Final Effluent (SP-13)	
Sample Date & Time	TSS, mg/L
10/18/04 8:30	12.2
10/18/04 11:45	10
10/18/04 15:30	10
10/18/04 18:00	10
10/19/04 9:00	8
10/19/04 11:30	8
10/19/04 19:30	40
10/20/04 9:00	15
10/21 (comp)	20
10/21/04 11:30	10
10/22/04 (comp)	10
10/24/04 (comp)	10

Lower Fox River OU1 2004 Remedial Action
Percent Solids Analyses
10-18-04 through 10-22-04

INFRASTRUCTURE ALTERNATIVES

Dredge Slurry
(SP-2)

Sample Start Date & Time	Sample Stop Date & Time	% Solids	% Volatile
10/18/04 8:25	10/18/04 12:25	8.72	16.6
10/18/04 14:30	(grab)	4.0	15.2
10/18/04 15:15	(grab)	3.1	21.6
10/18/04 16:25	(grab)	3.2	16.8
10/18/04 17:05	(grab)	2.7	15.3
10/18/04 18:05	(grab)	4.5	16.2
10/18/04 18:05	10/18/04 22:45	1.72	17.6
10/19/04 9:00	10/19/04 13:30	0.68	12.1
10/19/04 14:10	10/19/04 18:10	1.93	15.5
10/19/04 19:00	10/19/04 22:05	7.51	16.7
10/20/04 7:45	10/20/04 11:00	4.19	15.6
10/20/04 15:16	10/20/04 19:18	1.28	12.8
10/20/04 19:20	10/20/04 22:41	0.25	25.0
10/21/04 7:50	10/21/04 12:00	5.09	13.5
10/21/04 12:00	10/21/04 17:35	4.02	18.2
10/21/04 17:37	10/21/04 22:26	6.5	20.2
10/22/04 7:23	10/22/04 15:50	1.2	20.5
10/22/04 15:50	10/22/04 18:40	1.0	17.6

Geotube Contents
(SP-6)

Geotube No.	Sample Date	(-port)	% Solids	% Volatile
2	10/18/04	far	46.2	4.5
3	10/18/04	mid	45.5	6.8
	10/18/04	far	47.8	6.6
B1	10/18/04	mid	21.0	10.2
B2	10/18/04	far	31.0	18.8
B3	10/18/04	mid	24.6	14.4
B4	10/18/04	mid	27.7	11.5
	10/18/04	far	25.0	11.8
D1	10/18/04	front	31.1	10.5
	10/18/04	far	32.2	8.0
D2	10/18/04	far	32.2	11.9
D3	10/18/04	far	29.0	11.8

Lower Fox River OU1 2004 Remedial Action
Grain Size Analyses
10-18-04 through 10-22-04

INFRASTRUCTURE ALTERNATIVES

Dredge Slurry (SP-2)						
Sample start date & time	Sample stop date & time	Soil Classification, %				
		Cobbles	Gravel	Sand	Silt	Clay
10/18/04 18:05	**10/18/04 22:45**	**0.0**	**0.0**	**40.6**	**52.5**	**6.9**
10/19/04 9:00	**10/19/04 13:30**	**0.0**	**0.0**	**56.1**	**35.5**	**8.4**
10/20/04 7:45	10/20/04 10:00	0.0	0.0	35.9	58.9	5.2
10/21/04 7:50	10/21/04 12:00	0.0	0.0	15.9	62.0	22.1
10/22/04 15:50	10/22/04 18:40	0.0	0.0	22.2	61.2	16.6

Please note: Emboldened samples from 10/18/04 18:05 to 10/18/04 22:45 and 10/19/04 9:00 to 10/19/04 13:30 were taken from Dredge Slurry Post-Chemical Injection (SP-3).

Geotube Contents (SP-6)						
Geotube No.	Sample Date (-port)	Soil Classification, %				
		Cobbles	Gravel	Sand	Silt	Clay
3	10/18/2004 (far)	0.0	0.0	21.3	51.0	27.7
	10/18/04 (mid)	0.0	0.0	25.9	51.8	22.3
B1	10/18/04 (mid)	0.0	0.0	10.6	45.7	43.7
B2	10/18/04 (far)	0.0	0.0	24.6	52.3	23.1
B3	10/18/04 (mid)	0.0	0.0	24.5	46.6	28.9
B4	10/18/04 (far)	0.0	0.0	17.6	41.6	40.8
	10/18/04 (mid)	0.0	0.0	15.8	49.7	34.5
D1	10/18/04 (far)	0.0	0.0	15.9	28.4	55.7
D2	10/18/04 (far)	0.0	0.0	14.7	36.4	48.9
D3	10/18/04 (far)	0.0	0.0	12.9	39.6	47.5
	10/18/04 (front)	0.0	0.0	12.0	37.9	50.1

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (soils and slurries)
10-18-04 through 10-22-04

Dredge Slurry Prior to Chemical Injection (SP-2)		
Sample Start Date & Time	Sample Stop Date & Time	Total PCBs, ug/Kg
10/18/04 8:25	10/18/04 12:25	3600
10/18/04 18:05	**10/18/04 22:45**	**2600**
10/19/04 9:00	**10/19/04 13:30**	**480**
10/19/04 19:00	10/19/04 22:05	7000
10/20/04 7:45	**10/20/04 11:00**	**2600**
10/20/04 15:16	10/20/04 19:18	2000
10/21/04 7:50	10/21/04 12:00	840
10/22/04 7:23	10/22/04 15:50	4800
10/22/04 15:50	10/22/04 18:40	4700

Please note: Emboldened samples from 10/18/04 18:05 to 10/18/04 22:45, 10/19/04 9:00 to 10/19/04 13:30 and 10/20/04 7:45 to 10/20/04 11:00 were taken from Dredge Slurry Post-Chemical Injection (SP-3).

Geotube Contents (SP-6)		
Geotube No.	Sample Date (-port)	Total PCBs, ug/Kg
3	10/18/04 (mid)	290
	10/18/04 (far)	100
B1	10/18/04 (mid)	1600
B2	10/18/04 (far)	2600
B3	10/18/04 (mid)	4000
B4	10/18/04 (mid)	2200
	10/18/04 (far)	3400
D1	10/18/04 (far)	1700
D2	10/18/04 (far)	3700
D3	10/18/04 (front)	1300
	10/18/04 (far)	1700

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (aqueous samples)
10-18-04 through 10-22-04

INFRASTRUCTURE ALTERNATIVES

Carriage Water (SP-7)		
Sample Start Date & Time	Sample Stop Date & Time	Total PCBs, ug/L
10/15/04 22:45	10/18/04 8:00	< 0.30
10/18/04 8:30	10/18/04 22:45	< 0.25
10/18/04 18:05	10/18/04 22:45	< 0.26
10/18/04 20:36	10/19/04 7:50	< 0.26
10/19/04 20:36	10/20/04 7:30	< 0.27
10/21/04 22:28	10/22/04 7:30	< 0.26

Sandfloat Effluent (SP-10)	
Sample Date	Total PCBs, ug/L
10/19/04	< 0.25
10/20/04	< 0.25
10/21/04	< 0.25
10/22/04	< 0.25
Lead GAC Unit Effluent East train (SP-11E)	
Sample Date	Total PCBs, ug/L
10/19/04	< 0.25
10/20/04	< 0.25
10/21/04	< 0.25
10/22/04	< 0.25
Lead GAC Unit Effluent West train (SP-11W)	
Sample Date	Total PCBs, ug/L
10/19/04	< 0.25
10/20/04	< 0.25
10/21/04	< 0.25
10/22/04	< 0.25

Lower Fox River OU1 2004 Remedial Action
10-11-04 through 10-15-04

Dredge flow to Geotubes®

Legend	
	Dredge start
	Geotube online (valve open)
	med Geotube online (data unavai

Geotube®

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	No. 9	No. 10	No. 11	No. 12	No. 13	No. 14	No. 15	No. 16	No. 17	No. 18	No. 19	No. 20	No. D1	No. D2	No. D3	No. B1	No. B2	No. B3	No. B4	No. B5	No. B6	No. B7	No. B8	No. B9	No. B10	No. C1	No. C2	No. C3	No. E1
			Height, feet																																					
10/25/04 7:30	1192																																							
10/25/04 8:23	990																																							
10/25/04 8:30	951																																							
10/25/04 9:05	1005																																							
10/25/04 9:30	978																																							
10/25/04 10:05	1030																																							
10/25/04 10:30	1026																																							
10/25/04 10:40	1050																																							
10/25/04 11:05	1090																																							
10/25/04 11:30	942																																							
10/25/04 12:06	1080																																							
10/25/04 12:30	1000																																							
10/25/04 13:30	944																																							
10/25/04 14:30	958																																							
10/25/04 15:30	978	715,498																																							
10/25/04 16:01	0																																							
10/25/04 16:21	1007																																							
10/25/04 16:35	1020																																							
10/25/04 17:21	940																																							
10/25/04 18:21	821																																							
10/25/04 18:30	1010																																							
10/25/04 18:58	0																																							
10/25/04 19:05	945																																							
10/25/04 19:07																																							
10/25/04 19:27	0																																							
10/25/04 20:12	827																																							
10/25/04 20:37	0																																							
10/25/04 22:01	1059																																							
10/25/04 22:18	0																																							
10/26/04 7:45	923																																							
10/26/04 8:10	950																																							
10/26/04 8:45	978																																							
10/26/04 9:45	1035																																							
10/26/04 10:30	1020																																							
10/26/04 10:45	999																																							
10/26/04 11:05	960	454,299																																							
10/26/04 11:45	1011																																							
10/26/04 12:45	1006																																							
10/26/04 13:45	996																																							
10/26/04 14:21	0																																							
10/26/04 14:52	916																																							
10/26/04 15:52	909																																							
10/26/04 15:59	0																																							

Lower Fox River OU1 2004 Remedial Action
10-11-04 through 10-15-04

Dredge flow to Geotubes®

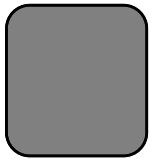
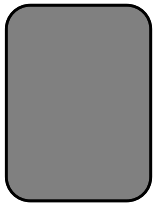
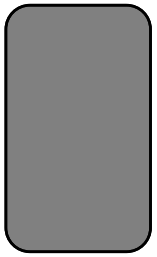
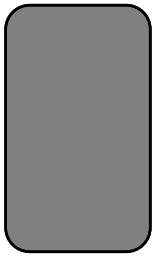
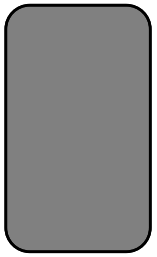
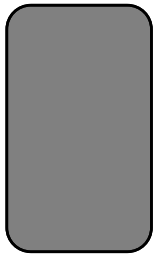
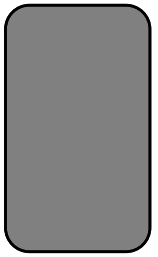
Legend	
	Dredge start
	Geotube online (valve open)
	med Geotube online (data unavai

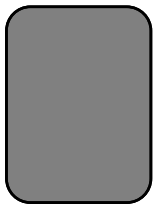
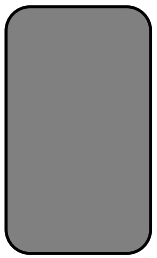
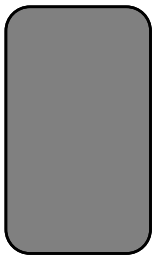
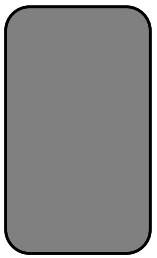
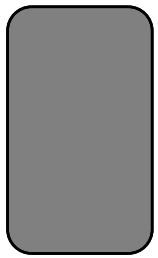
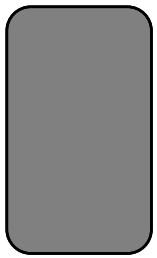
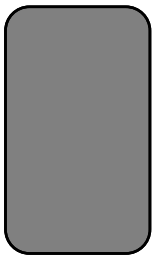
Geotube®

Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	No. 9	No. 10	No. 11	No. 12	No. 13	No. 14	No. 15	No. 16	No. 17	No. 18	No. 19	No. 20	No. D1	No. D2	No. D3	No. B1	No. B2	No. B3	No. B4	No. B5	No. B6	No. B7	No. B8	No. B9	No. B10	No. C1	No. C2	No. C3	No. E1
			Height, feet																																				
10/27/04 8:19	863																																						
10/27/04 9:19	972																																						
10/27/04 9:30	1040																																						
10/27/04 10:19	973																																						
10/27/04 10:30	970																																						
10/27/04 11:19	993																																						
10/27/04 11:50	930																																						
10/27/04 12:19	986	579,450																																						
10/27/04 13:19	976																																						
10/27/04 14:19	929																																						
10/27/04 15:19	963																																						
10/27/04 16:19	927																																						
10/27/04 17:19	918																																						
10/27/04 18:19	963																																						
10/27/04 18:29	0																																						
10/28/04 7:56	822																																						
10/28/04 8:56	945																																						
10/28/04 9:56	963																																						
10/28/04 10:30	970																																						
10/28/04 10:56	980																																						
10/28/04 11:56	962																																						
10/28/04 12:15	950	615,840																																						
10/28/04 12:56	986																																						
10/28/04 13:10	930																																						
10/28/04 13:56	966																																						
10/28/04 14:56	954																																						
10/28/04 15:56	835																																						
10/28/04 16:56	885																																						
10/28/04 17:39	0																																						
10/29/04 9:05	927																																						
10/29/04 10:05	968																																						
10/29/04 11:05	945																																						
10/29/04 12:05	921																																						
10/29/04 13:02	0	335,481																																						
10/29/04 15:10	890																																						
10/29/04 16:10	950																																						
10/29/04 17:10	728																																						
10/29/04 17:13	0																																						

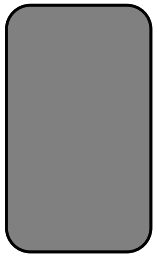
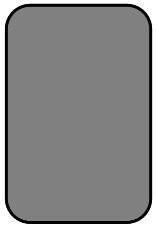
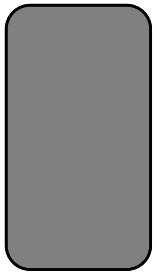
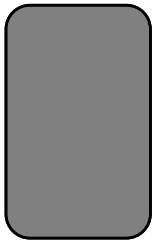
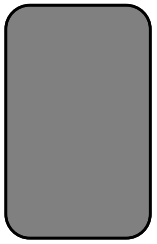
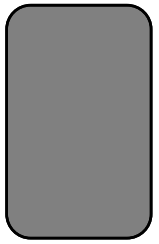
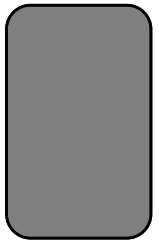
Weekly total flow, gal	2,700,568
Daily average flow, gpd	540,114

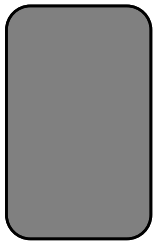
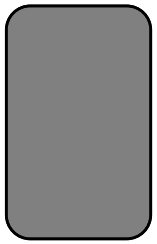
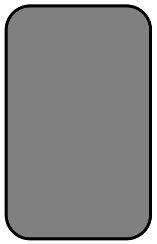
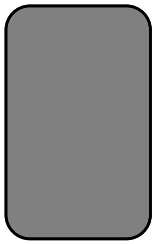
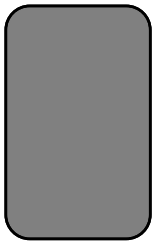
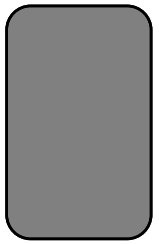
INFRASTRUCTURE ALTERNATIVES

Geotube No. 1 **60 ft. x 60 ft.**	Geotube No. 2 60 ft. x 80 ft.	Geotube No. 3 60 ft. x 145 ft.	**Geotube No. 4** **60 ft. x 145 ft.**	**Geotube No. 5** **60 ft. x 145 ft.**	**Geotube No. 6** **60 ft. x 145 ft.**	**Geotube No. 7** **60 ft. x 145 ft.**
						
Placed Online	Placed Online	Placed Online	**Placed Online**	**Placed Online**	**Placed Online**	**Placed Online**
9/9/04	8/31/04	9/8/04	**9/10/04**	**9/10/04**	**9/21/04**	**10/1/04**
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	**Contains Deposit(s)**	**Contains Deposit(s)**	**Contains Deposit(s)**	**Contains Deposit(s)**
D, E	D, E, A-4	D, E, A-4, A-8	**D, E, A-4, A-8**	**D, E, A-4, A-8**	**A-4, A-8**	**A-4, A-8**
Status	Status	Status	**Status**	**Status**	**Status**	**Status**
Inactive	Inactive	Inactive	**Inactive**	**Inactive**	**Inactive**	**Inactive**
Percent Solids	Percent Solids	Percent Solids	**Percent Solids**	**Percent Solids**	**Percent Solids**	**Percent Solids**
50.1% (10/13)	46.2% (10/18)	46.4% (10/18)	**59.5% (10/1)**	**47.8% (tube avg)**	**60.8% (tube avg)**	**35.4% (tube avg)**
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	**Total Volume, yds^3**	**Total Volume, yds^3**	**Total Volume, yds^3**	**Total Volume, yds^3**
231	370	541	**809**	**834**	**863**	**815**

Geotube No. 8 **60 ft. x 80 ft.**	**Geotube No. 9** **60 ft. x 145 ft.**	**Geotube No. 10** **60 ft. x 145 ft.**	**Geotube No. 11** **60 ft. x 145 ft.**	Geotube No. 12 60 ft. x 145 ft.	Geotube No. 13 60 ft. x 145 ft.	Geotube No. 14 60 ft. x 145 ft.
						
Placed Online	**Placed Online**	**Placed Online**	**Placed Online**	Placed Online	Placed Online	Placed Online
9/1/04	**9/1/04**	**9/2/04**	**9/7/04**	9/12/04	9/16/04	9/28/04
Contains Deposit(s)	**Contains Deposit(s)**	**Contains Deposit(s)**	**Contains Deposit(s)**	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	**D, E**	**D, E**	**D, E, A-4, A-8**	A-4, A-8	A-4, A-8	A-4, A-8
Status	**Status**	**Status**	**Status**	Status	Status	Status
Inactive	**Inactive**	**Inactive**	**Inactive**	Inactive	Inactive	Inactive
Percent Solids	**Percent Solids**	**Percent Solids**	**Percent Solids**	Percent Solids	Percent Solids	Percent Solids
48.5% (10/12)	**57.7% (10/12)**	**52.2% (10/12)**	**50.7% (10/12)**	72.3% (10/11)	74.6% (10/11)	73.8% (10/4)
Total Volume, yds^3	**Total Volume, yds^3**	**Total Volume, yds^3**	**Total Volume, yds^3**	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
382	**757**	**560**	**847**	834	721	716

INFRASTRUCTURE ALTERNATIVES

Geotube No. D1 60 ft. x 175 ft.	Geotube No. D2 60 ft. x 116 ft.	Geotube No. D3 60 ft. x 200 ft.	Geotube No.B1 60 ft. x 130 ft.	Geotube No.B2 60 ft. x 130 ft.	Geotube No.B3 60 ft. x 130 ft.	Geotube No.B4 60 ft. x 130 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
10/4/04	10/6/04	10/8/04	10/11/04	10/11/04	10/11/04	10/11/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2
Status	Status	Status	Status	Status	Status	Status
Active	Active	Active	Active	Active	Active	Active
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
33.9%	34.5%	37.0% (tube avg)	32.2% (tube avg)	30.4%	44.2% (tube avg)	34.2% (tube avg)
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
734	603	1052	601	696	255	525

Geotube No.B5 60 ft. x 130 ft.	Geotube No.B6 60 ft. x 130 ft.	Geotube No. 15 60 ft. x 30 ft.	Geotube No. 16 60 ft. x 30 ft.	Geotube No. 16.5 60 ft. x 30 ft.	Geotube No. 17 60 ft. x 175 ft.	
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Total Geotube Volume, yd^3
10/18/04	10/18/04	10/18/04				16,456
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Insitu Volume Removed, yd^3
POG2	POG2	POG2	POG2	POG2	POG2	
Status	Status	Status	Status	Status	Status	Geotube Bulking Factor
Active	Active	Active	Active	Active	Active	
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	
27.9%	32.4%	34.7%			24.2% (tube avg)	
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	
216	368	361	408	408 (est.)	949	

Lower Fox River OU1 2004 Remedial Action
Total Suspended Solids Analyses
10-11-04 through 10-15-04 *page 1 of 2*

INFRASTRUCTURE ALTERNATIVES

Surface Water Near Dredge (SP-1)		
Sample Identification	Sample Date & Time	TSS, mg/L
dredge--south	10/28/04	21
dredge--north	10/27/04 8:52	21
dredge--south	10/27/04 9:03	29

Geotube Weep (SP-5)		
Geotube No.	Sample Date	TSS, mg/L
20	10/29/04	10
	10/29/04	20
B1	10/26/04	60
	10/27/04	<5
B5	10/27/04	<5
B6	10/26/04	40
B7	10/26/04	260
	10/27/04	<20
C1	10/27/04	<20

Carriage Water (SP-7)		
Sample Start Date & Time	Sample Stop Date & Time	TSS, mg/L
10/22/04 18:35	10/25/04 8:15	20
10/25/04 8:15	10/25/04 21:30	10
10/25/04 21:30	10/26/04 7:30	20
10/26/04 9:30	(grab)	10
10/27/04 7:20	10/27/04 20:00	10
10/27/04 20:00	10/28/04 7:30	20
10/28/04 7:35	10/28/04 17:00	<17
10/28/04 17:40	10/29/04 8:00	17

Sandfloat Effluent (SP-10)	
Sample Date & Time	TSS, mg/L
10/26/04 9:10	<10
10/26/04 9:30	10
10/27/04 13:45	10
10/28/04 9:55	5
10/28/04 12:30	10
10/29/04 9:00	5
10/29/04 13:52	<5

Lead GAC Unit Effluent East train (SP-11E)	
Sample Date & Time	TSS, mg/L
10/26/04 9:12	5
10/27/04 11:30	<10

(Continued) Lead GAC Unit Effluent East train (SP-11E)	
Sample Date & Time	TSS, mg/L
10/27/04 13:50	10
10/28/04 10:00	5
10/28/04 12:45	10
10/29/04 9:15	<5
10/29/04 13:56	10

Lead GAC Unit Effluent West train (SP-11W)	
Sample Date & Time	TSS, mg/L
10/26/04 9:11	10
10/27/04 11:40	10
10/27/04 13:51	5
10/28/04 10:01	<5
10/28/04 12:50	10
10/29/04 9:15	6.7
10/29/04 13:59	5

Lag GAC Unit Effluent East train (SP-12E) TSS	
Sample Date & Time	TSS, mg/L
10/26/04 9:17	5
10/27/04 11:42	5
10/27/04 13:53	<5
10/28/04 10:03	5
10/28/04 13:00	10
10/29/04 9:25	5
10/29/04 14:00	<5

Lag GAC Unit Effluent West train (SP-12W)	
Sample Date & Time	TSS, mg/L
10/26/04 9:14	15
10/27/04 11:43	<10
10/27/04 13:55	<10
10/28/04 10:05	5
10/28/04 13:00	10
10/29/04 9:25	10
10/29/04 14:02	<5

Final Effluent (SP-13)	
Sample Date & Time	TSS, mg/L
10/26/04 (comp)	5
10/27/04 (comp)	5

Lower Fox River OU1 2004 Remedial Action
Total Suspended Solids Analyses
10-11-04 through 10-15-04 *page 2 of 2*

(Continued) Final Effluent (SP-13)	
Sample Date & Time	TSS, mg/L
10/28/04 (comp)	5
10/29/04 (comp)	5

Lower Fox River OU1 2004 Remedial Action
Percent Solids Analyses
10-25-04 through 10-29-04

INFRASTRUCTURE ALTERNATIVES

Dredge Slurry Prior to Chemical Injection (SP-2)			
Sample Start Date & Time	Sample Stop Date & Time	% Solids	% Volatile
10/25/04 7:46	10/25/04 13:16	0.90	19.7
10/25/04 13:16	10/25/04 18:36	2.70	16.4
10/25/04 18:36	10/25/04 22:23	4.90	18.3
10/26/04 8:10	10/26/04 14:40	6.60	17.3
10/26/04 14:40	10/26/04 16:00	3.4	20.9
10/27/04 8:12	10/27/04 12:22	4.9	19.7
10/27/04 12:23	10/27/04 16:16	7.1	18.9
10/28/04 7:53	10/28/04 12:20	7.9	19.3
10/28/04 12:48	10/28/04 17:00	5.4	17.3

Geotube Contents (SP-6)				
Geotube No.	Sample Date	(-port)	% Solids	% Volatile
2	10/28/04	dirt	69.2	3.6
	10/28/04	clay/mix	60.7	3.5
5	10/25/04	mid	53.6	5.1
	10/25/04	far	41.9	7.1
6	10/25/04	mid	77.6	1.8
	10/25/04	far	43.9	7.8
7	10/25/04	front	38.8	9.5
	10/25/04	far	32.9	10.1
	10/25/04	mid	34.5	11.3
	10/28/04	mix	55.1	6.29
	10/28/04	dry	71.7	2.18
	10/28/04	wet	42.7	8.26
14	10/25/04	front	28.6	6.3
15	10/25/04	fill	38.4	12.2
	10/25/04	far	30.9	15.3
17	10/25/04	front	24.5	21.8
	10/25/04	far	23.8	20.8
B1	10/25/04	mid	32.5	4.5
	10/25/04	far	31.8	8.4
B2	10/25/04	far	30.4	10.7
B3	10/25/04	fill	59.8	3.9
	10/25/04	far	28.6	14.4
B4	10/25/04	mid	34.2	8.5
	10/25/04	far	34.1	10.0
B5	10/25/04	front	27.9	14.8
B6	10/25/04	mid	32.4	14.6
D1	10/25/04	far	33.9	8.8
D2	10/25/04	far	34.5	11.4
D3	10/25/04	fill	37.9	8.6
	10/25/04	far	36.0	10.3

Lower Fox River OU1 2004 Remedial Action
Grain Size Analyses
10-25-04 through 10-29-04

INFRASTRUCTURE ALTERNATIVES

Dredge Slurry Prior to Chemical Injection (SP-2)						
Sample start date & time	Sample stop date & time	Soil Classification, %				
		Cobbles	Gravel	Sand	Silt	Clay
10/25/04 7:45	10/25/04 13:16	0.0	0.0	24.9	58.5	16.6
10/27/04 8:12	10/27/04 12:22	0.0	0.0	21.8	63.0	15.2
10/28/04 12:48	**10/28/04 17:00**	**0.0**	**0.0**	**24.7**	**71.4**	**3.9**

Please note: Emboldened sample from 10/28/04 12:48 to 10/28/04 17:00 was taken from Dredge Slurry Post-Chemical Injection (SP-3).

Geotube Contents (SP-6)						
Geotube No.	Sample Date (-port)	Soil Classification, %				
		Cobbles	Gravel	Sand	Silt	Clay
3	10/25/04 (mid)	0.0	0.0	33.4	47.6	19.0
5	10/25/04 (mid)	0.0	0.0	47.4	26.8	25.8
	10/25/04 (far)	0.0	0.0	30.3	28.9	40.8
6	10/25/04 (mid)	0.0	0.0	82.8	10.8	6.4
	10/25/04 (far)	0.0	0.4	25.2	26.9	47.5
7	10/25/04 (front)	0.0	0.0	21.9	50.1	28.0
	10/25/04 (mid)	0.0	0.0	17.8	39.1	43.1
	10/25/04 (far)	0.0	0.0	13.3	26.8	59.9
14	10/25/04 (front)	0.0	0.0	35.7	33.9	30.4
15	10/25/04 (fill)	0.0	4.9	43.0	45.0	7.1
	10/25/04 (far)	0.0	0.0	37.5	56.4	6.1
17	10/25/04 (front)	0.0	0.0	26.7	62.8	10.5
	10/25/04 (far)	0.0	0.0	27.8	64.6	7.6
B1	10/25/04 (mid)	0.0	0.0	12.2	39.4	50.4
	10/25/04 (far)	0.0	0.0	7.0	35.1	57.9
B2	10/25/04 (far)	0.0	0.0	16.0	36.3	47.7
B3	10/25/04 (fill)	0.0	3.5	26.8	25.9	43.8
	10/25/2004	0.0	0.0	25.5	37.5	37.0
B4	10/25/04 (mid)	0.0	0.0	17.2	47.3	35.5
	10/25/04 (far)	0.0	0.0	19.8	34.2	46.0
B5	10/25/04 (front)	0.0	0.0	30.3	58.4	11.3
B6	10/25/04 (mid)	0.0	0.0	37.0	52.5	10.5
D1	10/25/04 (far)	0.0	0.0	14.6	37.5	47.9
D2	10/25/04 (far)	0.0	0.0	21.5	46.1	32.4
D3	10/25/04 (fill)	0.0	0.0	12.5	40.2	47.3
	10/25/04 (far)	0.0	0.0	8.7	49.8	41.5

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (soils and slurries)
10-25-04 through 10-29-04

INFRASTRUCTURE ALTERNATIVES

Dredge Slurry Prior to Chemical Injection (SP-2)		
Sample Start Date & Time	Sample Stop Date & Time	Total PCBs, ug/Kg
10/25/04 7:46	10/25/04 13:16	5400
10/25/04 18:29	10/25/04 22:23	3900
10/26/04 8:10	10/26/04 14:40	5000
10/27/04 8:12	10/27/04 12:22	6800
10/27/04 12:23	10/27/04 16:16	6100
10/28/04 7:53	10/28/04 12:20	4500
10/28/04 12:48	10/28/04 17:00	4500
10/29/04 9:06	10/29/04 13:43	5100

Geotube Contents (SP-6)		
Geotube No.	Sample date (-port)	Total PCBs, ug/Kg
5	10/25/04 (mid)	440
	10/25/04 (far)	320
6	10/25/04 (mid)	97
	10/25/04 (far)	1500
7	10/25/04 (front)	3000
	10/25/04 (far)	3400
	10/25/04 (mid)	2500
14	10/25/04 (front)	2800
15	10/25/04 (front)	3400
	10/25/04 (far)	2600
17	10/25/04 (front)	3500
	10/25/04 (far)	3900
B1	10/25/04 (far)	200
	10/25/04 (mid)	2100
B2	10/25/04 (far)	1600
B3	10/25/04 (front)	500
	10/25/04 (far)	2600
B4	10/25/04 (mid)	3500
	10/25/04 (far)	2800
B5	10/25/04 (front)	2900
B6	10/25/04 (mid)	660
D1	10/25/04 (far)	1800
D2	10/25/04 (far)	3000
D3	10/25/04 (front)	1500
	10/25/04 (far)	1300

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (aqueous samples)
10-25-04 through 10-29-04

Carriage Water (SP-7)		
Sample Start Date & Time	Sample Stop Date & Time	Total PCBs, ug/L
10/22/04 18:35	10/25/04 8:15	< 0.25
10/25/04 21:30	10/26/04 7:30	< 0.26
10/26/04 7:30	10/26/04 7:20	< 0.25
10/26/04 20:00	10/27/04 7:30	< 0.25
10/28/04 7:35	10/28/04 17:40	< 0.25
10/28/04 17:40	10/29/04 8:00	< 0.25

Sandfloat Effluent (SP-10)	
Sample Date	Total PCBs, ug/L
10/26/04	< 0.25
10/27/04	< 0.25
10/28/04	< 0.25
10/29/04	< 0.25

Lead GAC Unit Effluent East train (SP-11E)	
Sample Date	Total PCBs, ug/L
10/26/04	< 0.25
10/27/04	< 0.25
10/28/04	< 0.25
10/29/04	< 0.25

Lead GAC Unit Effluent West train (SP-11W)	
Sample Date	Total PCBs, ug/L
10/26/04	< 0.26
10/27/04	< 0.25
10/29/04	< 0.25

Lag GAC Unit Effluent West train (SP-12W)	
Sample Date	Total PCBs, ug/L
10/28/04	<0.25

Lower Fox River OU1 2004 Remedial Action
Dredge Flow to Geotubes
11-01-04 through 11-05-04

Legend
Dredge start
Geotube online (valve open)
sumed Geotube online (data unavailab

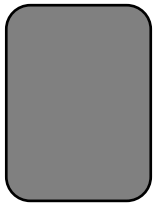
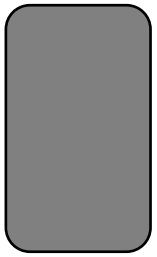
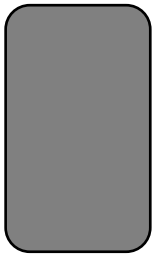
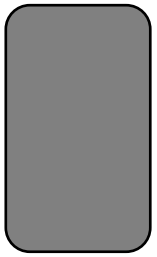
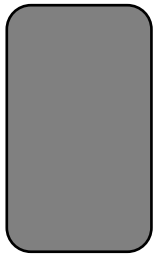
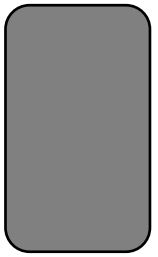
Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube®																																										
			No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	No. 9	No. 10	No. 11	No. 12	No. 13	No. 14	No. 15	No. 16	No. 17	No. 18	No. 19	No. 20	No. D1	No. D2	No. D3	No. B1	No. B2	No. B3	No. B4	No. B5	No. B6	No. B7	No. B8	No. B9	No. B10	No. B11	No. C1	No. C2	No. C3	No. C4	No. E1
			Height, feet																																										
11/1/04 9:24	836	526,855																																											
11/1/04 9:30	1008																																											
11/1/04 10:24	1077																																											
11/1/04 11:15	989																																											
11/1/04 11:24	953																																											
11/1/04 12:08	930																																											
11/1/04 12:24	1000																																											
11/1/04 13:24	943																																											
11/1/04 14:24	1057																																											
11/1/04 15:24	987																																											
11/1/04 16:24	816																																											
11/1/04 17:24	905																																											
11/1/04 18:24	955																																											
11/1/04 18:37	0																																											
11/2/04 7:45	964	609208																																											
11/2/04 8:45	973																																											
11/2/04 9:00	900																																											
11/2/04 9:45	970																																											
11/2/04 10:45	1051																																											
11/2/04 11:45	1040																																											
11/2/04 12:45	140																																											
11/2/04 13:45	0																																											
11/2/04 14:07	955																																											
11/2/04 15:07	951																																											
11/2/04 15:40	1060																																											
11/2/04 16:15	1020																																											
11/2/04 17:08	980																																											
11/2/04 17:15	990																																											
11/2/04 18:10	0																																											
11/3/04 7:44	802	576,963																																										
11/3/04 8:44	970																																											
11/3/04 9:44	1054																																											
11/3/04 10:44	1052																																											
11/3/04 11:44	1034																																											
11/3/04 12:00	0																																											
11/3/04 12:15	1005																																											
11/3/04 13:15	1033																																											
11/3/04 13:52	0																																											
11/3/04 14:11	910																																											
11/3/04 15:11	806																																											
11/3/04 16:11	997																																											
11/3/04 17:11	1004																																											
11/3/04 18:11	0																																											
11/4/04 7:37	980																																											
11/4/04 8:37	883																																											
11/4/04 8:55	1050																																											

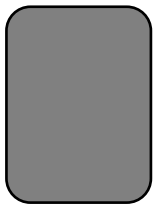
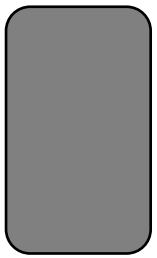
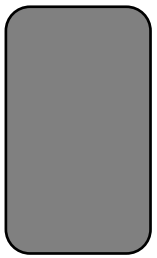
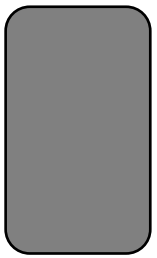
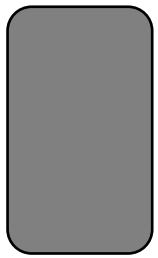
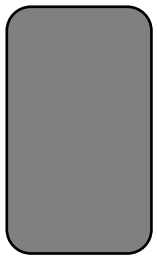
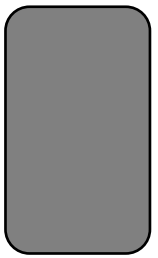
Lower Fox River OU1 2004 Remedial Action
Dredge Flow to Geotubes
11-01-04 through 11-05-04

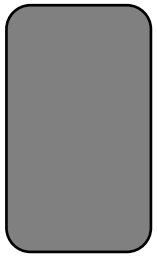
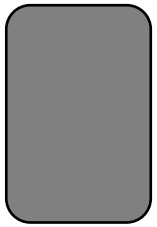
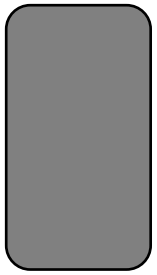
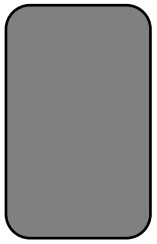
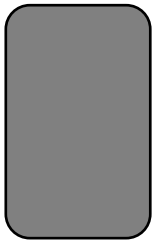
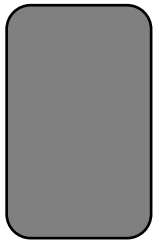
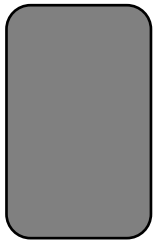
Legend
Dredge start
Geotube online (valve open)
sumed Geotube online (data unavailab

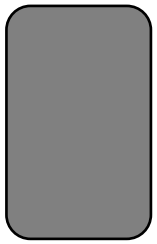
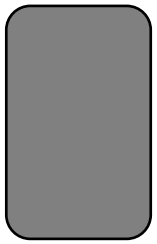
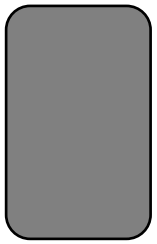
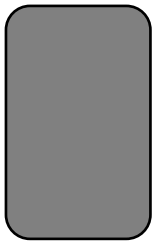
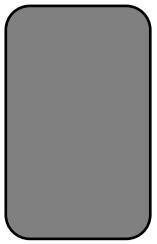
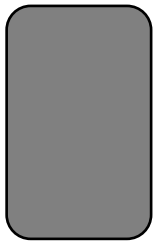
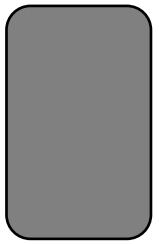
Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube®																																												
			No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	No. 9	No. 10	No. 11	No. 12	No. 13	No. 14	No. 15	No. 16	No. 17	No. 18	No. 19	No. 20	No. D1	No. D2	No. D3	No. B1	No. B2	No. B3	No. B4	No. B5	No. B6	No. B7	No. B8	No. B9	No. B10	No. B11	No. C1	No. C2	No. C3	No. C4	No. E1
			Height, feet																																												
11/4/04 9:37	1005																																														
11/4/04 9:45	1000																																													
11/4/04 10:30	1030																																													
11/4/04 10:37	972																																													
11/4/04 11:05	980																																													
11/4/04 11:37	963																																													
11/4/04 11:45	970	605,962																																													
11/4/04 12:37	1108																																													
11/4/04 13:15	920																																													
11/4/04 13:37	940																																													
11/4/04 14:37	1132																																													
11/4/04 14:40	1150																																													
11/4/04 15:37	1114																																													
11/4/04 16:05	1000																																													
11/4/04 16:37	1054																																													
11/4/04 17:30	0																																													
11/5/04 7:50	1082																																													
11/5/04 8:34	0																																													
11/5/04 9:28	1058																																													
11/5/04 10:28	969																																													
11/5/04 11:28	942																																													
11/5/04 12:28	1016	413,416																																												
11/5/04 13:28	1076																																													
11/5/04 14:28	1083																																													
11/5/04 14:51	0																																													
11/5/04 16:22	1065																																													
11/5/04 17:15	0																																													
Weekly total flow, gal		2,732,404																																												
Daily average flow, gpd		546,481																																												

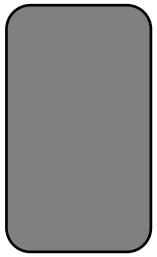
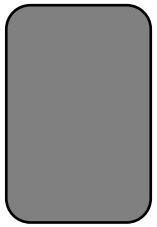
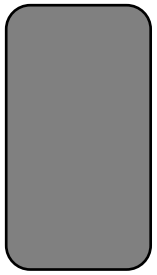
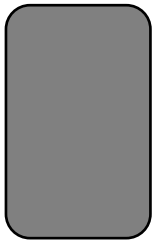
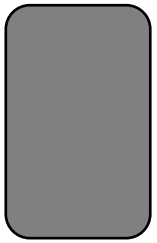
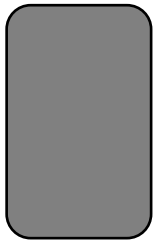
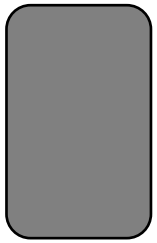
INFRASTRUCTURE ALTERNATIVES

Geotube No. 1 60 ft. x 60 ft.	Geotube No. 2 60 ft. x 80 ft.	Geotube No. 3 60 ft. x 145 ft.	Geotube No. 4 60 ft. x 145 ft.	Geotube No. 5 60 ft. x 145 ft.	Geotube No. 6 60 ft. x 145 ft.	Geotube No. 7 60 ft. x 145 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
9/9/04	8/31/04	9/8/04	9/10/04	9/10/04	9/21/04	10/1/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	D, E, A-4	D, E, A-4, A-8	D, E, A-4, A-8	D, E, A-4, A-8	A-4, A-8	A-4, A-8
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
50.1% (10/13)	49.7%	51.1%	59.5% (10/1)	47.8% (10/25)	60.8% (10/25)	56.2%
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
229	364	527	809	797	786	724

Geotube No. 8 60 ft. x 80 ft.	Geotube No. 9 60 ft. x 145 ft.	Geotube No. 10 60 ft. x 145 ft.	Geotube No. 11 60 ft. x 145 ft.	Geotube No. 12 60 ft. x 145 ft.	Geotube No. 13 60 ft. x 145 ft.	Geotube No. 14 60 ft. x 145 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
9/1/04	9/1/04	9/2/04	9/7/04	9/12/04	9/16/04	9/28/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	D, E	D, E	D, E, A-4, A-8	A-4, A-8	A-4, A-8	A-4, A-8
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
48.5% (10/12)	57.7% (10/12)	52.2% (10/12)	50.7% (10/12)	72.3% (10/11)	74.6% (10/11)	73.8% (10/4)
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
377	793	549	681	834	685	602

Geotube No. D1 60 ft. x 175 ft.	Geotube No. D2 60 ft. x 116 ft.	Geotube No. D3 60 ft. x 200 ft.	Geotube No.B1 60 ft. x 130 ft.	Geotube No.B2 60 ft. x 130 ft.	Geotube No.B3 60 ft. x 130 ft.	Geotube No.B4 60 ft. x 130 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
10/4/04	10/6/04	10/8/04	10/11/04	10/11/04	10/11/04	10/11/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
55.5%	34.7%	35.8%	35.7%	32.5%	*unable to sample*	*unable to sample*
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
663	564	941	591	374	328	348

Geotube No.B5 60 ft. x 130 ft.	Geotube No.B6 60 ft. x 130 ft.	Geotube No. 15 60 ft. x 60 ft.	Geotube No. 16 60 ft. x 106 ft.	Geotube No. 17 60 ft. x 60 ft.	Geotube No. 18 60 ft. x 176 ft.	Geotube No. 19 60 ft. x 145
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
10/18/04	10/18/04	10/18/04	10/19/04	10/21/04	10/21/04	10/28/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
POG2	POG2	POG2	POG2	POG2	POG2	POG2
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
30.4%	30.7%	*unable to sample*	34.4%	*unable to sample*	25.5%	26.2%
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
453	475	210	424	310	484	752

Geotube No. 20 60 ft. x 40 ft.	Geotube No. B7 60 ft. x 130 ft.	Geotube No. B8 60 ft. x 101 ft.	Geotube No. B9 60 ft. x 130 ft.	Geotube No. B10 60 ft. x 130 ft.	Geotube No. C1 60 ft. x 116 ft.	Geotube No. C2 60 ft. x 116 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
10/29/04	10/25/04	10/25/04	11/1/04	11/1/04	10/26/04	10/27/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
POG2	POG2	POG2	POG2	POG2	POG2	POG2
Status	Status	Status	Status	Status	Status	Status
Active	Retired	Retired	Active	Active	Active	Active
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
too new to sample	27.3%	*unable to sample*	*too new to sample*	*too new to sample*	28.6%	26.7%
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
166	615	262	*nominal*	*nominal*	527	297

Total Geotube Volume, yd^3: 17,916

Lower Fox River OU1 2004 Remedial Action
Total Suspended Solids Analyses
11-1-04 through 11-5-04 *page 1 of 2*

INFRASTRUCTURE ALTERNATIVES

Surface Water Near Dredge (SP-1)		
Sample Identification	Sample Date & Time	TSS, mg/L
near dredge	11/5/04	31
near dredge	11/5/04	55

Geotube Weep (SP-5)		
Geotube No.	Sample Date	TSS, mg/L
20	11/3/04	80
	11/4/04	40
B9	11/3/04	60
	11/4/04	40
B10	11/3/04	55
	11/4/04	20
C2	11/4/04	20
C3	11/5/04	10
C4	11/5/04	20
E1	11/3/04	30
	11/4/04	40
	11/5/04	5

Carriage Water (SP-7)		
Sample Start Date & Time	Sample Stop Date & Time	TSS, mg/L
11/2/04 7:30	11/3/04 8:00	14
11/3/04 8:00	11/3/04 18:25	20
11/3/04 18:25	11/4/04 9:35	20
11/4/04 19:30	11/5/04 9:23	20
11/4/04 9:35	11/4/04 17:30	20
11/5/04 9:25	11/5/04 17:20	20

Sandfloat Effluent (SP-10)	
Sample Date & Time	TSS, mg/L
11/3/04	10
11/4/04 15:25	10
11/5/04 11:35	10

Lead GAC Unit Effluent East train (SP-11E)	
Sample Date & Time	TSS, mg/L
11/3/04	10
11/4/04	20
11/5/04 11:40	10

Lead GAC Unit Effluent West train (SP-11W)	
Sample Date & Time	TSS, mg/L
11/3/04	20
11/4/04 15:45	20
11/5/04 12:15	20

Lag GAC Unit Effluent East train (SP-12E) TSS	
Sample Date & Time	TSS, mg/L
11/3/04	15
11/4/04 15:46	10
11/5/04 12:25	5

Lag GAC Unit Effluent West train (SP-12W)	
Sample Date & Time	TSS, mg/L
11/3/04	10
11/4/04 13:47	5
11/5/04 12:25	10

Final Effluent (SP-13)	
Sample Date & Time	TSS, mg/L
11/2/04 (comp)	5
11/5/04 (comp.)	20

Lower Fox River OU1 2004 Remedial Action
Percent Solids Analyses
11-1-04 through 11-5-04

INFRASTRUCTURE ALTERNATIVES

Dredge Slurry Prior to Chemical Injection (SP-2)			
Sample Start Date & Time	Sample Stop Date & Time	% Solids	% Volatile
11/2/04 17:15	11/2/04 18:15	7.12	13.1
11/3/04 13:00	11/3/04 17:20	5.19	15.7
11/3/04 17:20	11/3/04 18:23	3.65	18.5
11/4/04 8:53	11/4/04 12:27	4.21	17.8

Geotube Contents (SP-6)				
Geotube No.	Sample Date	(-port)	% Solids	% Volatile
2	11/1/04	front	65.8	3.2
		mid	48.1	3.9
		far	47.2	3.9
3	11/1/04	front	56.8	5.0
		mid	50.5	6.1
		far	46.1	6.4
16	11/1/04	fill	34.4	13.3
18	11/1/04	front	26.0	18.1
		far	25.0	17.9
19	11/1/04	mid	27.3	14.8
		far	25.0	13.8
B1	11/1/04	mid	40.7	7.6
		far	35.7	6.5
B2	11/1/04	mid	32.5	8.6
B5	11/1/04	front	28.3	14.0
		far	32.5	9.6
B6	11/1/04	front	33.4	9.5
		mid	25.4	14.8
B7	11/1/04	front	27.6	13.7
		far	26.9	15.1
C1	11/1/04	far	28.6	14.1
C2	11/1/04	far	26.7	14.9
D1	11/1/04	far	55.5	3.8
D2	11/1/04	far	34.7	
D3	11/1/04	front	36.0	9.8
		far	35.6	10.1

Lower Fox River OU1 2004 Remedial Action
Grain Size Analyses
11-01-04 through 11-05-04

INFRASTRUCTURE ALTERNATIVES

Dredge Slurry Prior to Chemical Injection (SP-2)						
Sample start date & time	Sample stop date & time	Soil Classification, %				
		Cobbles	Gravel	Sand	Silt	Clay
11/1/04 9:18	11/1/04 14:18	0.0	0.0	29.0	55.6	15.4
11/2/04 12:15	11/2/04 17:15	0.0	0.0	23.3	52.4	24.3
11/3/04 9:00	11/3/04 13:00	0.0	0.0	17.3	53.8	28.9
11/4/04 8:53	11/4/04 12:27	0.0	0.0	31.3	51.2	17.5

Geotube Contents (SP-6)						
Geotube No.	Sample Date (-port)	Soil Classification, %				
		Cobbles	Gravel	Sand	Silt	Clay
3	11/1/04 (front)	0.0	0.0	50.3	23.1	26.6
	11/1/04 (mid A)	0.0	0.0	27.4	55.0	17.6
	11/1/04 (mid B)	0.0	0.0	25.8	53.4	20.8
	11/1/04 (far)	0.0	0.0	26.2	55.0	18.8
16	11/1/04 (fill)	0.0	10.6	41.9	39.9	8.2
18	11/1/04 (front)	0.0	0.0	25.0	63.6	11.4
	11/1/04 (back)	0.0	0.0	22.9	66.5	10.6
19	11/1/04 (mid)	0.0	9.9	30.0	46.0	14.1
	11/1/04 (far)	0.0	0.0	20.0	68.8	11.2
B1	11/1/04 (mid)	0.0	0.0	7.4	45.7	46.9
	11/1/04 (far)	0.0	0.0	9.1	39.7	51.2
B2	11/1/04 (mid)	0.0	0.0	16.1	39.1	44.8
B4	11/2/04 (far)	0.0	0.0	17.6	41.6	40.8
B5	11/1/04 (front)	0.0	0.0	35.8	54.6	9.6
	11/1/04 (far)	0.0	6.2	42.2	45.2	6.4
B6	11/1/04 (front)	0.0	4.3	30.9	52.1	12.7
	11/1/04 (mid)	0.0	0.0	45.9	43.4	10.7
B7	11/1/04 (front)	0.0	0.0	36.0	49.1	14.9
	11/1/04 (far)	0.0	0.0	22.2	65.2	12.6
C1	11/1/04 (far)	0.0	0.0	25.3	59.7	15.0
C2	11/01/2004	0.0	0.0	26.2	58.9	14.9
D1	11/1/04 (far)	0.0	0.0	43.0	24.4	32.6
D2	11/1/04 (far)	0.0	0.0	20.8	40.7	38.5
D3	11/1/04 (front)	0.0	0.0	12.0	41.5	46.5
	11/1/04 (far)	0.0	0.0	12.9	52.5	34.6

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (soils and slurries)
11-1-04 through 11-5-04

INFRASTRUCTURE ALTERNATIVES

Dredge Slurry Prior to Chemical Injection (SP-2)		
Sample Start Date & Time	Sample Stop Date & Time	Total PCBs, ug/Kg
11/1/04 9:18	11/1/04 14:18	7800
11/2/04 7:30	11/2/04 12:15	5000
11/2/04 12:15	11/2/04 17:15	2200
11/3/04 9:00	11/3/04 13:00	1600
11/3/04 13:00	11/3/04 17:20	4700
11/4/04 8:53	11/4/04 12:27	7100
11/4/04 13:27	11/4/04 17:30	6300
11/5/04 8:00	11/5/04 13:45	6700
11/5/04 13:45	11/5/04 17:25	5000

Geotube Contents (SP-6)		
Geotube No.	Sample date (-port)	Total PCBs, ug/Kg
3	11/1/04 (front)	130
	11/1/04 (mid)	280
	11/1/04 (mid-	1000
	11/1/04 (far)	290
16	11/1/04 (front)	2400
18	11/1/04 (front)	20000
	11/1/04 (far)	3900
19	11/1/04 (mid)	4700
	11/1/04 (far)	9700
B1	11/1/04 (mid)	1600
	11/1/04 (far)	2500
B2	11/1/04 (mid)	2600
B5	11/1/04 (front)	6500
	11/1/04 (far)	2900
B6	11/1/04 (mid)	4500
	11/1/04 (front)	4000
B7	11/1/04 (front)	6100
	11/1/04 (far)	5300
C1	11/1/04 (far)	6500
C2	11/1/04 (far)	6500
D1	11/1/04 (far)	1100
D2	11/1/04 (far)	4300
D3	11/1/04 (far)	1600
	11/1/04 (front)	1300

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (aqueous samples)
11-1-04 through 11-5-04

INFRASTRUCTURE ALTERNATIVES

Carriage Water (SP-7)		
Sample Start Date & Time	Sample Stop Date & Time	Total PCBs, ug/L
10/29/04 18:30	11/1/04 7:30	< 0.25
11/2/04 7:30	11/2/04 8:00	< 0.27
11/3/04 19:30	11/4/04 9:23	< 0.25
11/3/04 8:00	11/3/04 18:25	< 0.26
11/3/04 18:25	11/4/04 9:35	< 0.26
11/4/04 9:35	11/4/04 17:30	< 0.25
11/4/04 17:25	11/5/04 8:00	< 0.27
11/5/04 9:25	11/5/04 17:20	< 0.27

Sandfloat Effluent (SP-10)	
Sample Date	Total PCBs, ug/L
11/2/04	< 0.25
11/3/04	< 0.25
11/4/04	< 0.25
11/5/04	< 0.27

Lead GAC Unit Effluent East train (SP-11E)	
Sample Date	Total PCBs, ug/L
11/2/04	< 0.25
11/3/04	< 0.25
11/4/04	< 0.25
11/5/04	< 0.27

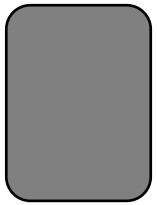
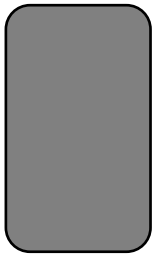
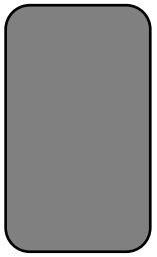
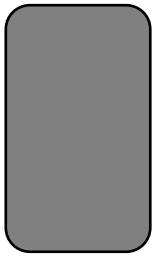
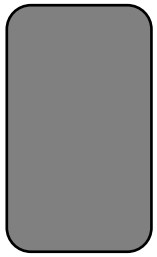
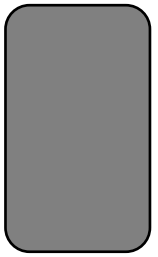
Lead GAC Unit Effluent West train (SP-11W)	
Sample Date	Total PCBs, ug/L
11/2/04	< 0.25
11/3/04	< 0.25
11/4/04	< 0.25
11/5/04	< 0.27

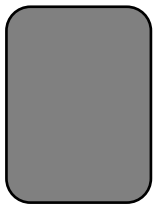
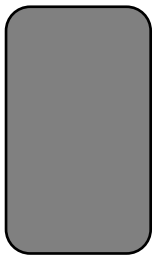
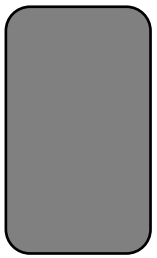
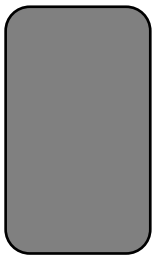
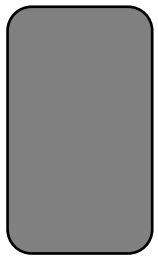
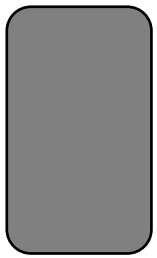
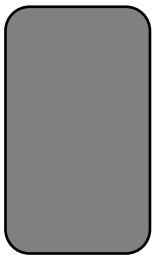
Lower Fox River OU1 2004 Remedial Action
Dredge Flow to Geotubes
11-08-04 through 11-12-04

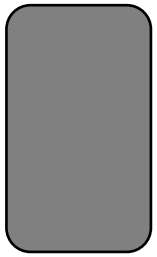
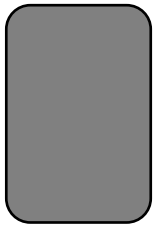
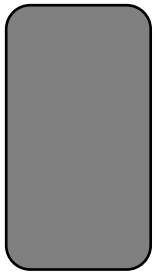
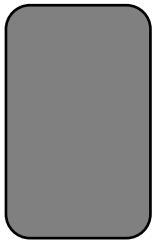
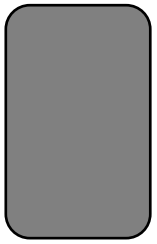
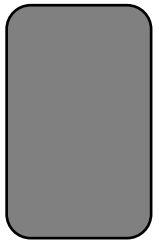
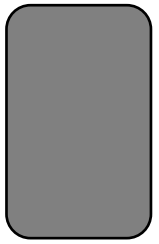
Legend
Dredge start
Geotube online (valve open)
ssumed Geotube online (data unavailab

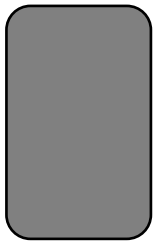
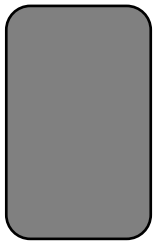
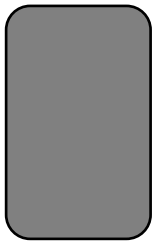
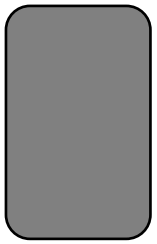
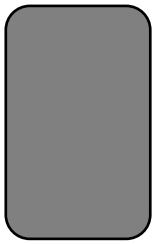
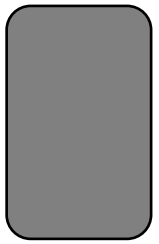
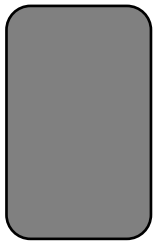
Sample date & time	Dredge flow, gpm	Total dredge flow, gpd	Geotube® No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	No. 9	No. 10	No. 11	No. 12	No. 13	No. 14	No. 15	No. 16	No. 17	No. 18	No. 19	No. 20	No. D1	No. D2	No. D3	No. B1	No. B2	No. B3	No. B4	No. B5	No. B6	No. B7	No. B8	No. B9	No. B10	No. B11	No. C1	No. C2	No. C3	No. C4	No. E1
			Height, feet																																							
11/8/04 8:00	938																																								
11/8/04 9:00	1025																																								
11/8/04 10:00	1020																																								
11/8/04 11:00	1024																																								
11/8/04 11:26	0																																								
11/8/04 11:37	1030																																								
11/8/04 12:37	921	498,634																																								
11/8/04 12:55	0																																								
11/8/04 13:08	1067																																								
11/8/04 14:08	949																																								
11/8/04 14:34	0																																								
11/8/04 14:38	1005																																								
11/8/04 15:38	939																																								
11/8/04 16:44	0																																								
Weekly total flow, gal		498,634																																							
Daily average flow, gpd		498,634																																							

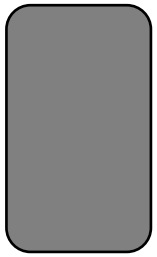
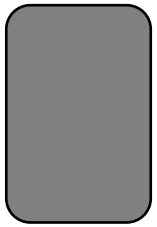
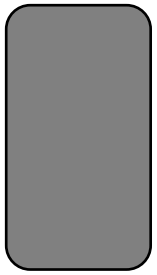
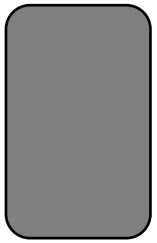
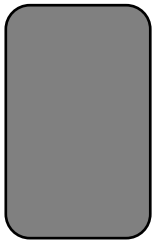
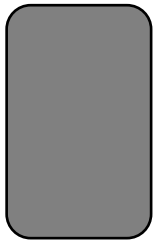
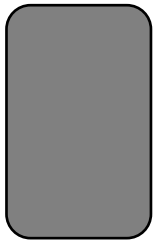
INFRASTRUCTURE ALTERNATIVES

Geotube No. 1 60 ft. x 60 ft.	Geotube No. 2 60 ft. x 80 ft.	Geotube No. 3 60 ft. x 145 ft.	Geotube No. 4 60 ft. x 145 ft.	Geotube No. 5 60 ft. x 145 ft.	Geotube No. 6 60 ft. x 145 ft.	Geotube No. 7 60 ft. x 145 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
9/9/04	8/31/04	9/8/04	9/10/04	9/10/04	9/21/04	10/1/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	D, E, A-4	D, E, A-4, A-8	D, E, A-4, A-8	D, E, A-4, A-8	A-4, A-8	A-4, A-8
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
50.1% (10/13)	64.9% (10/28)	51.1% (11/1)	59.5% (10/1)	47.8% (10/25)	60.8% (10/25)	56.2% (10/28)
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
229	364	527	809	797	786	724

Geotube No. 8 60 ft. x 80 ft.	Geotube No. 9 60 ft. x 145 ft.	Geotube No. 10 60 ft. x 145 ft.	Geotube No. 11 60 ft. x 145 ft.	Geotube No. 12 60 ft. x 145 ft.	Geotube No. 13 60 ft. x 145 ft.	Geotube No. 14 60 ft. x 145 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
9/1/04	9/1/04	9/2/04	9/7/04	9/12/04	9/16/04	9/28/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	D, E	D, E	D, E, A-4, A-8	A-4, A-8	A-4, A-8	A-4, A-8
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
48.5% (10/12)	57.7% (10/12)	52.2% (10/12)	50.7% (10/12)	72.3% (10/11)	74.6% (10/11)	73.8% (10/4)
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
377	793	549	681	834	685	602

Geotube No. D1 60 ft. x 175 ft.	Geotube No. D2 60 ft. x 116 ft.	Geotube No. D3 60 ft. x 200 ft.	Geotube No.B1 60 ft. x 130 ft.	Geotube No.B2 60 ft. x 130 ft.	Geotube No.B3 60 ft. x 130 ft.	Geotube No.B4 60 ft. x 130 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
10/4/04	10/6/04	10/8/04	10/11/04	10/11/04	10/11/04	10/11/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
50.5% (11/8)	33.4% (11/8)	38.2% (11/8)	35.7% (11/1)	37.8% (11/8)	44.2% (10/25)	34.2% (10/25)
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
663	564	941	591	374	328	348

Geotube No.B5 60 ft. x 130 ft.	Geotube No.B6 60 ft. x 130 ft.	Geotube No. 15 60 ft. x 60 ft.	Geotube No. 16 60 ft. x 106 ft.	Geotube No. 17 60 ft. x 60 ft.	Geotube No. 18 60 ft. x 176 ft.	Geotube No. 19 60 ft. x 145
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
10/18/04	10/18/04	10/18/04	10/19/04	10/21/04	10/21/04	10/28/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
POG2	POG2	POG2	POG2	POG2	POG2	POG2
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
29.2% (11/8)	42.2% (11/8)	34.7% (10/25)	34.4% (11/1)	24.2% (10/25)	25.5% (11/1)	26.2% (11/1)
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
453	701	210	424	310	484	752

Geotube No. 20 60 ft. x 40 ft.	Geotube No. B7 60 ft. x 130 ft.	Geotube No. B8 60 ft. x 101 ft.	Geotube No. B9 60 ft. x 130 ft.	Geotube No. B10 60 ft. x 130 ft.	Geotube No. C1 60 ft. x 116 ft.	Geotube No. C2 60 ft. x 116 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
10/29/04	10/25/04	10/25/04	11/1/04	11/1/04	10/26/04	10/27/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
POG2	POG2	POG2	POG2	POG2	POG2	POG2
Status	Status	Status	Status	Status	Status	Status
Active	Retired	Retired	Active	Active	Active	Active
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
unable to sample	27.3% (11/1)	*unable to sample*	*unable to sample*	*unable to sample*	27.8% (11/8)	26.7% (11/1)
Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3	Total Volume, yds^3
166	615	262	539	539	527	541

Lower Fox River OU1 2004 Remedial Action
Total Suspended Solids Analyses
11-8-04 through 11-12-04

Carriage Water (SP-7)	
Sample Start Date & Time	TSS, mg/L
11/8/04	30
11/9/04	<5
	20
11/10/04	<5
	15
11/11/04	<5

Sandfloat Effluent (SP-10)	
Sample Date & Time	TSS, mg/L
11/8/04	10
11/9/04	10

Lead GAC Unit Effluent East train (SP-11E)	
Sample Date & Time	TSS, mg/L
11/8/04	10
11/9/04	10

Lead GAC Unit Effluent West train (SP-11W)	
Sample Date & Time	TSS, mg/L
11/8/04	20
11/9/04	10

Lag GAC Unit Effluent East train (SP-12E) TSS	
Sample Date & Time	TSS, mg/L
11/8/04	10
11/9/04	<5

Lag GAC Unit Effluent West train (SP-12W)	
Sample Date & Time	TSS, mg/L
11/8/04	10
11/9/04	10
Final Effluent (SP-13)	
Sample Date & Time	TSS, mg/L
11/8/04	5
11/9/04	10

Lower Fox River OU1 2004 Remedial Action
Percent Solids Analyses
11-8-04 through 11-12-04

Geotube Contents (SP-6)				
Geotube No.	Sample Date	(-port)	% Solids	% Volatile
B5	11/8/04	front	28.5%	16.1%
	11/8/04	mid	29.8%	15.7%
B6	11/8/04	front	50.3%	8.1%
	11/8/04	mid	34.0%	17.1%
B11	11/8/04	far	31.6%	11.7%
C1	11/8/04	far	29.6%	21.0%
	11/8/04	front	25.9%	58.5%
D1	11/8/04	far	50.5%	4.8%
D3	11/8/04	far	38.1%	9.0%
E1	11/8/04	far	30.8%	12.3%

Lower Fox River OU1 2004 Remedial Action
Grain Size Analyses
11-8-04 through 11-12-04

INFRASTRUCTURE ALTERNATIVES

Dredge Slurry (SP-2)						
Sample start date & time	Sample stop date & time	Soil Classification, %				
		Cobbles	Gravel	Sand	Silt	Clay
11/04/2004 13:27	11/4/04 17:30	0.0	0.0	33.9	51.7	14.4
11/05/2004 13:45	11/5/04 17:25	0.0	0.0	33.2	52.4	14.4
11/08/2004 13:15	11/8/04 16:55	0.0	0.0	37.4	50.0	12.6

Geotube Contents (SP-6)						
Geotube No.	Sample Date (-port)	Soil Classification, %				
		Cobbles	Gravel	Sand	Silt	Clay
3	11/12/04 (mid)	0.0	0.0	25.9	51.8	22.3
6	11/8/04 (far)	0.0	0.0	33.6	52.8	13.6
20	11/9/04 (mid)	0.0	0.0	22.9	64.7	12.4
	11/9/04 (front)	0.0	0.0	23.0	65.5	11.5
	11/9/04 (far)	0.0	0.0	19.1	56.8	24.1
D1	11/8/04 (far)	0.0	0.0	25.9	32.4	41.7
B2	11/8/04 (mid)	0.0	0.0	22.3	20.5	57.2
B5	11/8/04 (front)	0.0	0.0	35.8	50.8	13.4
	11/8/04 (mid)	0.0	0.0	39.3	47.5	12.5
B6	11/8/04 (mid)	0.0	0.0	32.7	55.6	11.7
	11/8/04 (front)	0.0	11.1	55.5	25.0	8.4
B11	11/8/04 (front)	0.0	0.0	42.5	44.6	12.9
	11/8/04 (far)	0.0	0.0	39.0	48.8	12.2
C1	11/8/04 (far)	0.0	0.0	21.6	63.8	14.6
	11/8/04 (front)	0.0	0.8	32.6	52.3	14.3
C3	11/8/04 (far)	0.0	0.0	40.1	37.8	22.1
C4	11/8/04 (far)	0.0	0.0	43.9	45.1	11.0
D2	11/8/04 (far)	0.0	0.0	21.2	36.8	42.0
D3	11/8/04 (front)	0.0	0.0	22.7	35.9	41.4
	11/8/04 (far)	0.0	0.0	21.3	37.4	41.3

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (soils and slurries)
11-8-04 through 11-12-04

Dredge Slurry Prior to Chemical Injection (SP-2)		
Sample Start Date & Time	Sample Stop Date & Time	Total PCBs, ug/Kg
11/8/04 13:15	11/8/04 16:55	5300

Geotube Contents (SP-6)		
Geotube No.	Sample date (-port)	Total PCBs, ug/Kg
20	11/9/04 (front)	5000
	11/9/04 (mid)	4500
	11/9/04 (far)	4700
B2	11/8/04 (mid)	1400
B5	11/8/04 (front)	6100
	11/8/04 (mid)	2400
B6	11/8/04 (front)	1600
	11/8/04 (mid)	3300
B11	11/8/04 (front)	4500
	11/8/04 (far)	4800
C1	11/8/04 (front)	6800
	11/8/04 (far)	6600
C3	11/8/04 (far)	3400
C4	11/8/04 (far)	4500
D1	11/8/04 (far)	2300
D2	11/8/04 (far)	2600
D3	11/8/04 (front)	2500
	11/8/04 (far)	1700
E1	11/8/04 (far)	1800

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (aqueous samples)
11-8-04 through 11-12-04

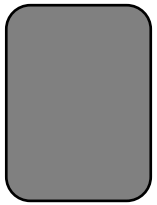
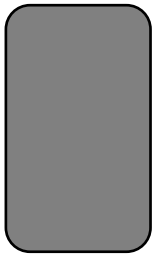
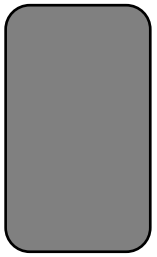
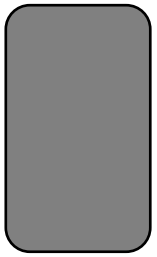
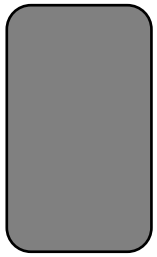
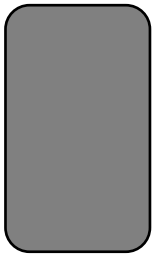
Carriage Water (SP-7)		
Sample Start Date & Time	Sample Stop Date & Time	Total PCBs, ug/L
11/5/04 17:30	11/8/04 9:00	< 0.25
11/8/04 17:30	11/9/04 11:46	< 0.25
11/9/04 17:45	11/10/04 7:30	< 0.25

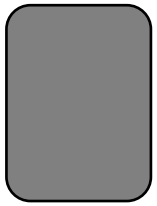
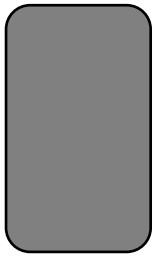
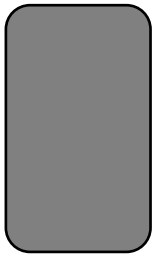
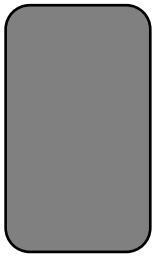
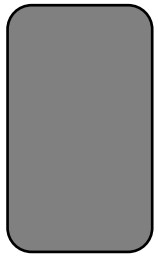
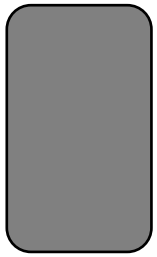
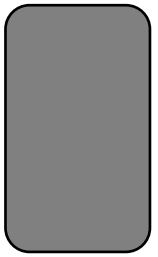
Sandfloat Effluent (SP-10)	
Sample Date	Total PCBs, ug/L
11/8/04	< 0.27
11/9/04	< 0.27

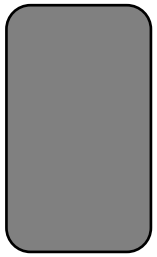
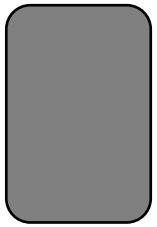
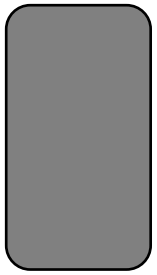
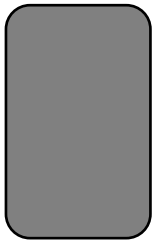
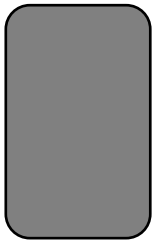
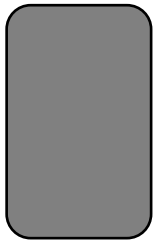
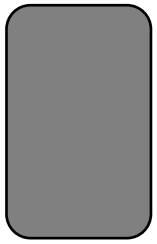
Lead GAC Unit East train (SP-11E)	
Sample Date	Total PCBs, ug/L
11/8/04	< 0.27
11/9/04	< 0.27

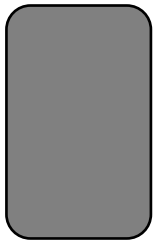
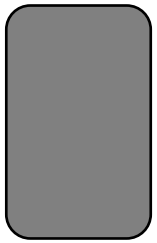
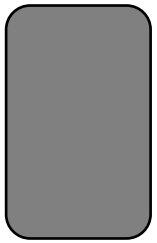
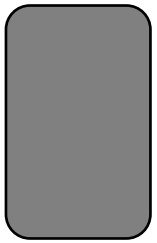
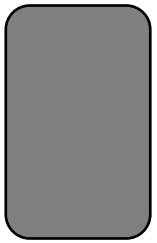
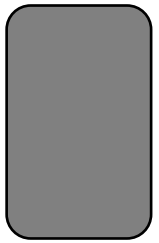
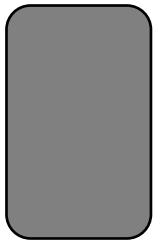
Lead GAC Unit West train (SP-11W)	
Sample Date	Total PCBs, ug/L
11/8/04	< 0.27
11/9/04	< 0.27

INFRASTRUCTURE ALTERNATIVES

Geotube No. 1 60 ft. x 60 ft.	Geotube No. 2 60 ft. x 80 ft.	Geotube No. 3 60 ft. x 145 ft.	Geotube No. 4 60 ft. x 145 ft.	Geotube No. 5 60 ft. x 145 ft.	Geotube No. 6 60 ft. x 145 ft.	Geotube No. 7 60 ft. x 145 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
9/9/04	8/31/04	9/8/04	9/10/04	9/10/04	9/21/04	10/1/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	D, E, A-4	D, E, A-4, A-8	D, E, A-4, A-8	D, E, A-4, A-8	A-4, A-8	A-4, A-8
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
68.7% (11/15)	60.5% (11/29)	55.6% (12/2)	59.1% (10/1)	61.9% (11/30)	78.0% (11/15)	46.1% (12/1)

Geotube No. 8 60 ft. x 80 ft.	Geotube No. 9 60 ft. x 145 ft.	Geotube No. 10 60 ft. x 145 ft.	Geotube No. 11 60 ft. x 145 ft.	Geotube No. 12 60 ft. x 145 ft.	Geotube No. 13 60 ft. x 145 ft.	Geotube No. 14 60 ft. x 145 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
9/1/04	9/1/04	9/2/04	9/7/04	9/12/04	9/16/04	9/28/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
D, E	D, E	D, E	D, E, A-4, A-8	A-4, A-8	A-4, A-8	A-4, A-8
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
56.0% (12/9)	52.5% (12/9)	48.7% (12/9)	42.7% (12/9)	78.7% (11/16)	83.4% (11/16)	68.2% (11/16)

Geotube No. D1 60 ft. x 175 ft.	Geotube No. D2 60 ft. x 116 ft.	Geotube No. D3 60 ft. x 200 ft.	Geotube No.B1 60 ft. x 130 ft.	Geotube No.B2 60 ft. x 130 ft.	Geotube No.B3 60 ft. x 130 ft.	Geotube No.B4 60 ft. x 130 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
10/4/04	10/6/04	10/8/04	10/11/04	10/11/04	10/11/04	10/11/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2	A-8, POG2
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
54.9% (12/9)	58.9% (12/9)	40.9% (12/9)	35.1% (12/9)	42.2% (12/9)	31.9% (12/9)	29.4% (12/9)

Geotube No.B5 60 ft. x 130 ft.	Geotube No.B6 60 ft. x 130 ft.	Geotube No. 15 60 ft. x 60 ft.	Geotube No. 16 60 ft. x 106 ft.	Geotube No. 17 60 ft. x 60 ft.	Geotube No. 18 60 ft. x 176 ft.	Geotube No. 19 60 ft. x 145
						
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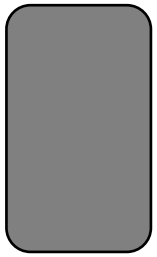
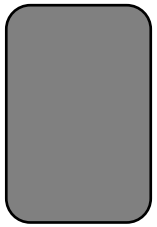
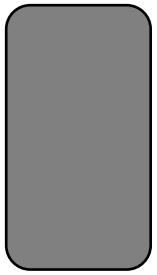
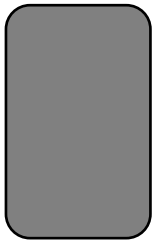
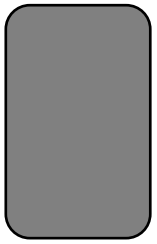
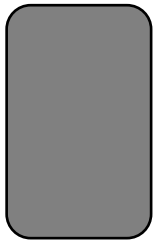
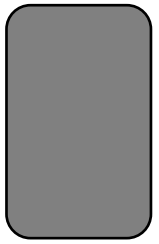
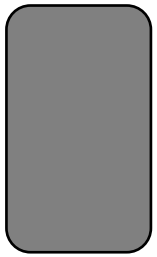
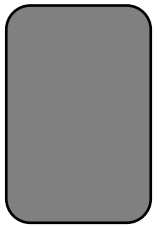
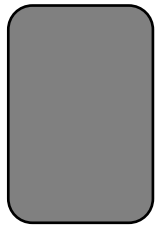
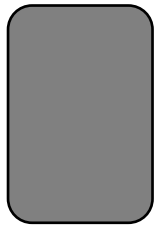
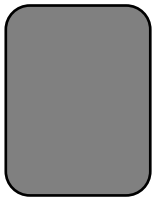
10/18/04	10/18/04	10/18/04	10/19/04	10/21/04	10/21/04	10/28/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
POG2	POG2	POG2	POG2	POG2	POG2	POG2
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
38.5% (12/9)	30.7% (12/9)	44.9% (12/9)	35.0% (12/9)	27.3% (12/9)	30.8% (12/9)	30.8% (12/9)

Geotube No. 20 60 ft. x 40 ft.	Geotube No. B7 60 ft. x 130 ft.	Geotube No. B8 60 ft. x 101 ft.	Geotube No. B9 60 ft. x 130 ft.	Geotube No. B10 60 ft. x 130 ft.	Geotube No. C1 60 ft. x 116 ft.	Geotube No. C2 60 ft. x 116 ft.
						
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
10/29/04	10/25/04	10/25/04	11/1/04	11/1/04	10/26/04	10/27/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
POG2	POG2	POG2	POG2	POG2	POG2	POG2
Status	Status	Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
33.5% (12/9)	27.6% (12/9)	29.8% (12/9)	34.1% (12/9)	32.6% (12/9)	27.0% (12/9)	29.3% (12/9)

Geotube No. B11 60 ft. x 145 ft.	Geotube No. C3 60 ft. x 116 ft.	Geotube No. C4 60 ft. x 116 ft.	Geotube No. C5 60 ft. x 116 ft.	Geotube No. E1 60 ft. x 106 ft.
				
Placed Online	Placed Online	Placed Online	Placed Online	Placed Online
11/4/04	11/3/04	11/5/04	12/1/04	11/2/04
Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)	Contains Deposit(s)
POG2	POG2	POG2	A-8	POG2
Status	Status	Status	Status	Status
Retired	Retired	Retired	Retired	Retired
Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids
30.7% (12/9)	32.3% (12/9)	31.8% (12/9)	26.5% (12/9)	33.3% (12/9)

Lower Fox River OU1 2004 Remedial Action
Grain Size Analyses
11-15 through 11-19

INFRASTRUCTURE ALTERNATIVES

Geotube Contents (SP-6)						
Geotube No.	Sample Date (-port)	Soil Classification, %				
		Cobbles	Gravel	Sand	Silt	Clay
2	11/15/04 (front)	0.0	0.0	1.0	25.3	73.7
	11/15/04 (mid)	0.0	0.0	18.8	48.9	32.3
	11/15/04 (far)	0.0	0.0	23.3	40.9	35.8
13	11/16/04 (far)	0.0	0.4	85.0	10.0	4.6
14	11/16/04 (mid)	0.0	0.0	75.8	12.1	12.1
	11/16/04 (far)	0.0	0.7	45.0	20.1	34.2
18	11/15/04 (mid)	0.0	0.0	26.1	59.4	14.5
19	11/16/04 (front)	0.0	0.0	22.5	643.7	12.8
1AA tubelet	11/15/2004	0.0	0.0	73.4	21.8	4.8
1BB tubelet	11/15/04	0.0	0.0	27.5	62.9	9.6
2A tubelet	11/15/04	0.0	0.0	27.2	63.8	9.0
B1	11/16/04 (front)	0.0	0.0	38.5	38.7	22.8
B2	11/16/04 (front)	0.0	0.0	25.7	46.8	27.5
B4	11/16/04 (far)	0.0	0.0	19.0	53.5	27.5
B5	11/15/04 (front)	0.0	0.0	27.2	63.9	8.9
	11/15/04 (mid)	0.0	0.0	33.4	55.4	11.2
	11/15/04 (far)	0.0	1.8	47.4	43.0	7.8
B6	11/15/04 (far)	0.0	0.0	26.2	64.4	9.4
B7	11/16/04 (mid)	0.0	0.0	31.9	59.8	8.3
B9	11/17/04 (front)	0.0	0.0	32.3	56.1	11.6
	11/17/04 (mid)	0.0	0.0	33.8	53.4	12.8
	11/17/04 (far)	0.0	0.0	25.8	54.8	19.4
B10	11/16/04 (front)	0.0	0.0	30.0	57.5	12.5
	11/16/04 (mid)	0.0	0.0	31.7	49.8	18.5
	11/16/04 (far)	0.0	0.0	21.9	55.9	22.2
B11	11/15/04 (?)	0.0	0.0	20.5	68.6	10.9
	11/15/04 (?)	0.0	0.0	27.5	59.9	12.6
	11/15/04 (mid)	0.0	0.0	30.6	53.2	16.2
	11/15/04 (far)	0.0	0.0	31.3	55.5	13.2
C1	11/16/04 (mid)	0.0	0.0	22.0	57.5	20.5
C2	11/16/04 (front)	0.0	0.0	26.0	60.3	13.7
	11/16/04 (mid)	0.0	0.0	27.5	65.8	6.7
C3	11/16/04 (front)	0.0	0.0	37.0	47.2	15.8
	11/16/04 (mid)	0.0	0.0	53.1	34.1	12.8
	11/16/04 (far)	0.0	0.0	31.5	55.7	12.8
C4	11/15/04 (front)	0.0	0.0	35.2	49.8	15.0
	11/16/04 (front)	0.0	0.0	32.3	53.1	14.6
	11/15/04 (mid)	0.0	0.0	30.8	54.5	14.7
	11/16/04 (mid)	0.0	0.0	28.0	50.8	21.2
	11/15/04 (far)	0.0	0.1	34.9	56.3	8.7
	11/16/04 (far)	0.0	0.0	29.8	48.7	21.5
D1	11/16/04 (front)	0.0	0.0	24.2	33.0	42.8
	11/16/04 (mid)	0.0	0.0	83.4	12.1	4.5
D2	11/16/04 (front)	0.0	3.2	44.1	17.3	35.4
	11/16/04 (mid)	0.0	0.0	18.6	44.0	37.4
D3	11/17/04 (mid)	0.0	0.0	40.9	42.9	16.2
E1	11/16/04 (front)	0.0	2.6	44.1	50.0	3.3
	11/16/04 (far)	0.0	0.0	29.0	54.1	16.9

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (sediment)
(11-15 through 11-19)

Geotube Contents (SP-6)		
Geotube No.	Sample date (-port)	Total PCBs, ug/Kg
13	11/16/04 (far)	66
14	11/16/04 (mid)	100
	11/16/04 (far)	690
18	11/15/04 (mid)	4500
19	11/16/04 (front)	6900
1AA tubelet	11/15/04	420
1BB tubelet	11/15/04	6500
2A tubelet	11/15/04	4900
B1	11/16/04 (front)	2800
B2	11/16/04 (front)	2000
B3	11/16/04 (front)	3600
B4	11/16/04 (front)	2900
	11/15/04 (front)	3400
B5	11/15/04 (front)	3900
	11/15/04 (mid)	5200
	11/15/04 (far)	2000
B6	11/15/04 (far)	6100
B7	11/16/04 (mid)	4200
B9	11/17/04 (front)	4000
	11/17/04 (mid)	2600
	11/17/04 (far)	4900
B10	11/16/04 (front)	3200
	11/16/04 (mid)	2800
	11/16/04 (far)	3100
B11	11/15/04 (front)	8400
	11/15/04 (mid)	13000
	11/15/04 (far)	4200
C1	11/16/04 (mid)	7300
C2	11/16/04 (front)	5600
	11/16/04 (mid)	4800
C3	11/16/04 (front)	2900
	11/16/04 (far)	3900
	11/16/04 (mid)	2600
C4	11/15/04 (front)	4000
	11/16/04 (front)	3500
	11/15/04 (mid)	3900
	11/16/04 (mid)	4500
	11/15/04 (far)	4600
	11/16/04 (far)	4100
D1	11/16/04 (front)	1800
	11/16/04 (mid)	140
D2	11/16/04 (front)	1800
	11/16/04 (mid)	2200
D3	11/17/04 (mid)	3100
E1	11/16/04 (front)	1600
	11/16/04 (far)	3000

Lower Fox River OU1 2004 Remedial Action
PCB Analyses (aqueous samples)
(11-15-04 through 11-19-04)

Sandfloat Effluent (SP-10)	
Sample Date	Total PCBs, ug/L
11/14/04	<0.26

East GAC Lead Unit (SP-11E)	
Sample Date	Total PCBs, ug/L
11/17/04	<0.26

West GAC Lead Unit (SP-11W)	
Sample Date	Total PCBs, ug/L
11/17/04	<0.26

Appendix D
Environmental Monitoring Data

Foth & Van Dyke
Memorandum

September 27, 2004

TO: Ben Hung, WDNR
Gary Kincaid, WDNR
Jim Hahnenberg, EPA

CC: Bill Hartman, GW Partners
Sherman LaViolette, CH2MHill
Mike Jury, CH2MHill
Tara Konkle, Foth & Van Dyke
Steve Laszewski, Foth & Van Dyke

FR: Jim Hutchison, Foth & Van Dyke

RE: OU1 2004 Environmental Monitoring Data – September 13 through September 20, 2004

Attached are monitoring data for the one week period beginning September 13, 2004 and ending September 20, 2004 for the environmental monitoring activities pursuant to the 2004 RA Work Plan, May, 2004 and subsequent addendum. If you have any questions or comments please contact Jim Hutchison at (920) 497 2500 or at jhutchison@foth.com. In addition to the weekly data summary, project data will be provided in a database format following completion of the 2004 RA work.

Data presented are draft and preliminary. These data have not undergone QA procedures and should not be viewed as final.

Air Monitoring Data:

Summary: Air sampling at the four meter locations was initiated on August 7, 2004. Sampling consisted of a 72 hour sampling event per week. Continuous sampling began on August 30, 2004. PCBs have not been detected to date.

Attachment: Attachment 1- Summary of Air Sampling Results Calculated to Date
Attachment 2- Monitor Location Sketch

Surface Water Data:

Summary: River turbidity meters began operation on August 20, 2004 monitoring river turbidity (NTUs) every 15 minutes at three locations. The meters are located upstream (meter 912), downstream (meter 902) and far downstream (meter 905) of dredging activities. Generally the data show that the downstream turbidity has been well within acceptable limits of the upstream turbidity except for isolated incidents and during a wind

event 9/18 to 9/19. **Please note the turbidity data graphs indicate dredging and no dredging times.**

Attachment: Attachment 3- Graphs and Tabulation of Turbidity Data for Upstream, Downstream, Far Downstream and Upstream/Downstream Difference Graph

Field Surface Water Data

Summary: Field data includes hand held turbidity measurements and TSS sampling taken at the turbidity monitoring stations between August 30, 2004 and September 17, 2004. A TSS/ Turbidity Correlation between TSS and turbidity to date shows a correlation coefficient of 0.83.

Attachment: Attachment 4-TSS and Field Turbidity Data and TSS/Turbidity Correlation

Water Treatment Data:

Summary: The effluent water was tested for TSS, PCBs and Ammonia. BOD testing was initiated on September 16, 2004. Limited test data has been provided by the laboratory to date.

Attachment: Attachment 5- Effluent water results

Sediment Sample Verification:

Summary: Post dredging sediment samples have not been collected to date.

Attachment: None

Note: transmitted when available, as these data will be obtained less frequently then other project environmental data.

Sand Placement Verification:

Summary: Sand placement has not been initiated to date

Attachment: None

Note: transmitted when available, as these data will be obtained less frequently then other project environmental data.

Attachment 1

GW Partners, LLC

Lower Fox River Operable Unit 1

Summary of Air Sampling Results Calculated to Date

All Results Reported in Total PCBs[1]

Dates	Sampling Round	Location ID	Sample ID	Laboratory Method[2]	Laboratory Reporting Limit (Total µg of PCBs)	Laboratory Results (Total µg of PCBs)[3]	Total Air Volume Sampled (Total m^3)		Calculated PCB Conc'n ($\mu g/m^3$)
8-4-04 to 8-7-04	1	GWP-1	PCB-01-1	EPA TO-4A	0.5	ND	1293.61	≤	0.0003865
8-4-04 to 8-7-04	1	GWP-2	PCB-02-1	EPA TO-4A	0.5	ND	1313.56	≤	0.0003806
8-4-04 to 8-7-04	1	GWP-3	PCB-03-1	EPA TO-4A	0.5	ND	1069.35	≤	0.0004676
8-4-04 to 8-7-04	1	GWP-4	PCB-04-1	EPA TO-4A	0.5	ND	1136.19	≤	0.0004401
8-10-04 to 8-13-04	2	GWP-1	PCB-01-2	EPA TO-4A	0.5	ND	1107.13	≤	0.0004516
8-10-04 to 8-13-04	2	GWP-2	PCB-02-2	EPA TO-4A	0.5	ND	1126.29	≤	0.0004439
8-10-04 to 8-13-04	2	GWP-3	PCB-03-2	EPA TO-4A	0.5	ND	1050.89	≤	0.0004758
8-10-04 to 8-13-04	2	GWP-4	PCB-04-2	EPA TO-4A	0.5	ND	1121.31	≤	0.0004459
8-10-04 to 8-13-04	2	N/A	Field Blank 1	EPA TO-4A	0.5	ND	N/A		N/A
8-17-04 to 8-20-04	3	GWP-1	PCB-01-3	EPA TO-4A	0.5	ND	1102.05	≤	0.0004537
8-17-04 to 8-20-04	3	GWP-2	PCB-02-3	EPA TO-4A	0.5	ND	1114.81	≤	0.0004485
8-17-04 to 8-20-04	3	GWP-3	PCB-03-3	EPA TO-4A	0.5	ND	1125.3	≤	0.0004443
8-17-04 to 8-20-04	3	GWP-4	PCB-04-3	EPA TO-4A	0.5	ND	1120.82	≤	0.0004461
8-24-04 to 8-27-04	4	GWP-1	PCB-01-4	EPA TO-4A	0.5	ND	1064.76	≤	0.0004696
8-24-04 to 8-27-04	4	GWP-2	PCB-02-4	EPA TO-4A	0.5	ND	1082.83	≤	0.0004618
8-24-04 to 8-27-04	4	GWP-3	PCB-03-4	EPA TO-4A	0.5	ND	1064.85	≤	0.0004695
8-24-04 to 8-27-04	4	GWP-4	PCB-04-4	EPA TO-4A	0.5	ND	1085.97	≤	0.0004604
8-24-04 to 8-27-04	4	N/A	Field Blank 2	EPA TO-4A	0.5	ND	N/A		N/A

Notes:

1. The laboratory reports the results in terms of significant Aroclors. Included are Aroclors 1016, 1221, 1232, 1242, 1248, 1254 and 1260. This table reports total PCB Aroclors and calculates a total PCB ambient air concentration.

2. EPA Compendium Method TO-4A is for determination of pesticides and polychlorinated biphenyls in ambient air using high volume polyurethane foam (PUF) sampling followed by gas chromoatographic/multi-detector detection (GC/MD).

3. ND = "None Detected". Given the laboratory reporting limit is 0.5 µg/sample, the concentration is calculated based on this value and reported as less than this concentration.

Attachment 2

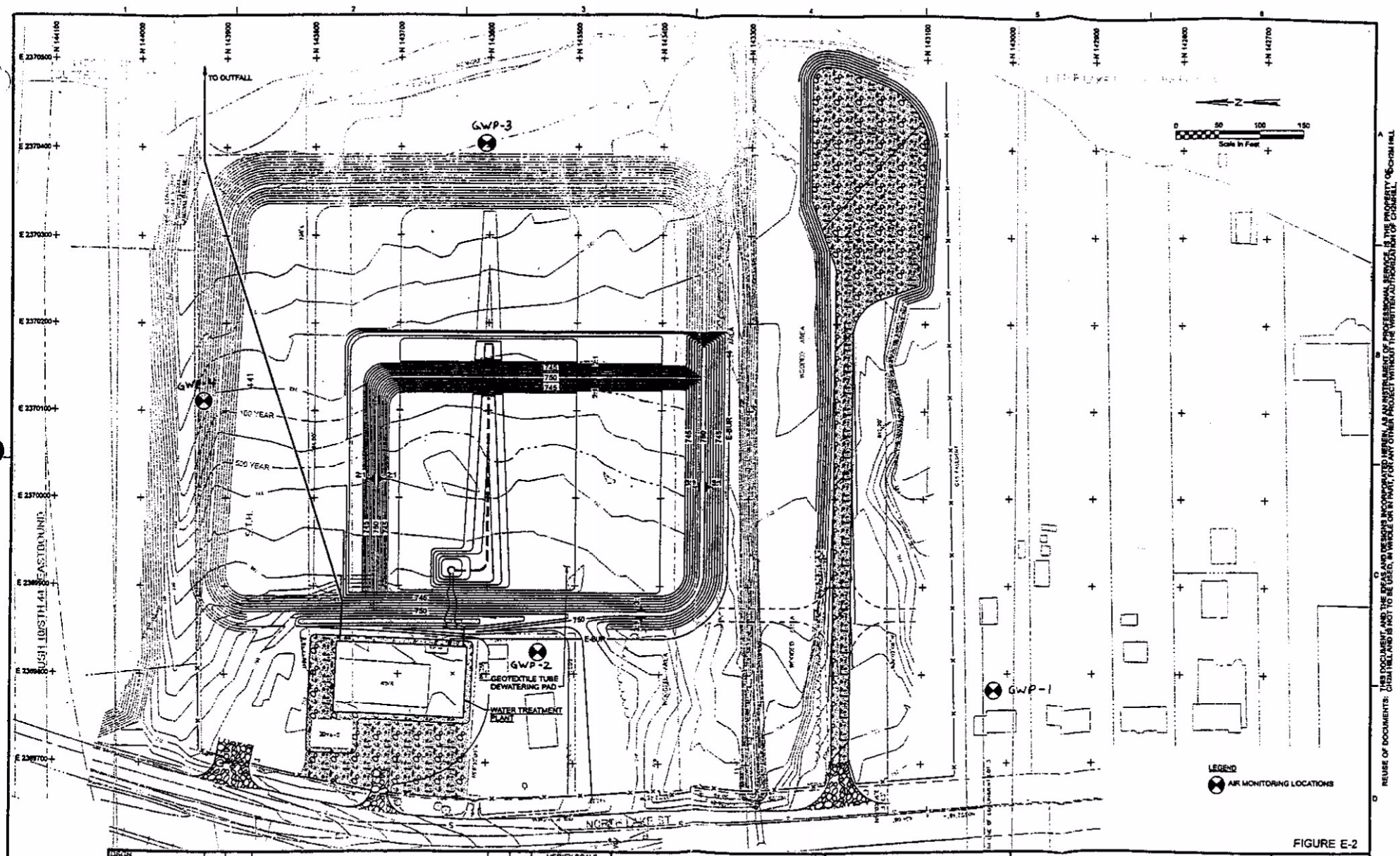


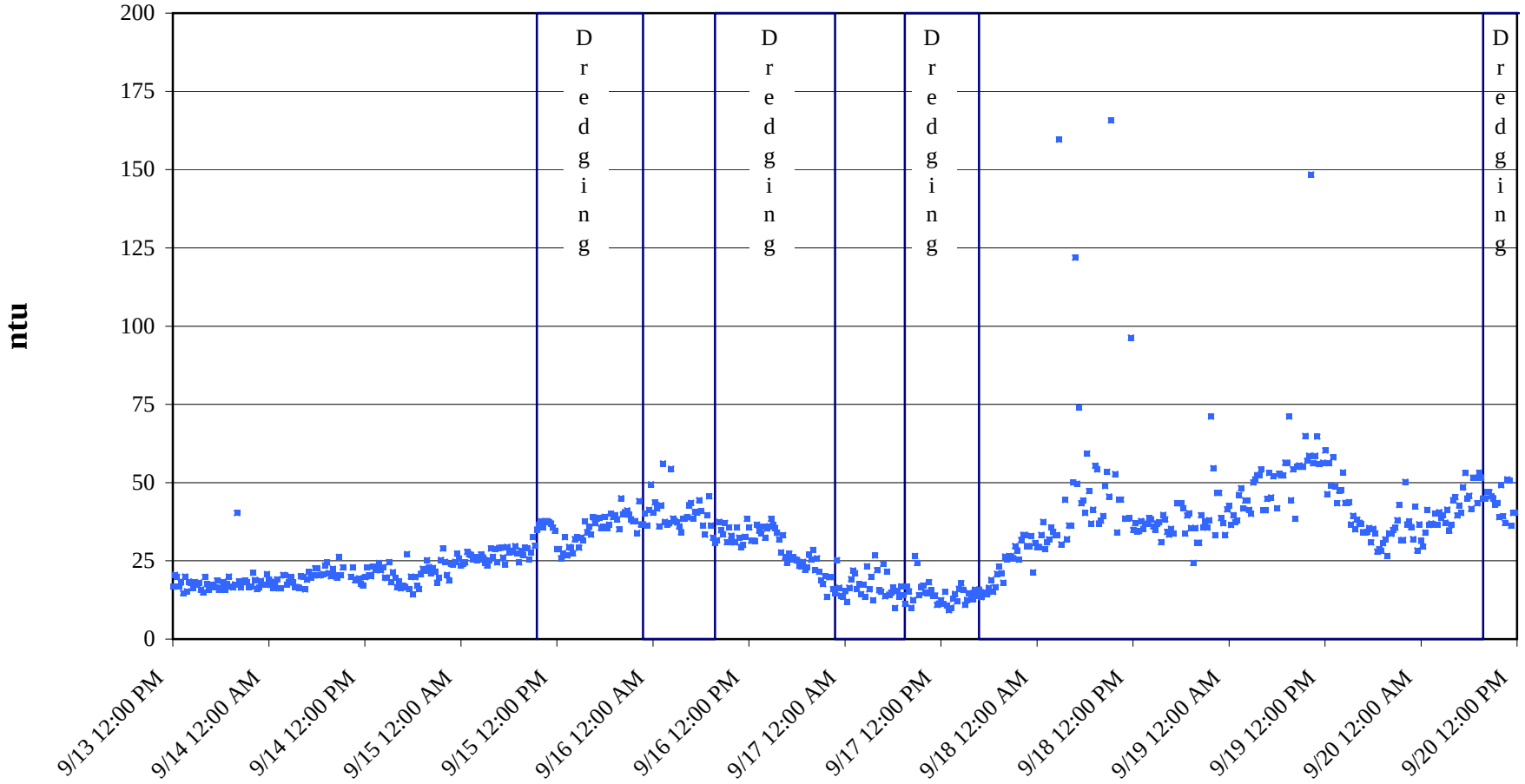
FIGURE E-2

DESIGN	C.M.LIETHEN				VERIFY SCALE	CH2MHILL	LOWER FOX RIVER (OU1) 2004 REMEDIAL ACTION TOWN OF MENASHA, WI G.W. PARTNERS, LLC	AIR MONITORING LOCATIONS	SHEET
DR	I.M.ZAEFKE				BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.				DWG C-1
CHK	D.J.PLOMB								DATE MAY 2004
APVD	S.D.LAVOLETTE	NO	DATE	REVISION	BY APVD				PROJ 315814.RA.01

FILENAME: tr5nc1416_183838.dgn PLOT DATE: 14-MAY-2004 PLOT TIME: 10:40:11

Attachment 3

Upstream Turbidity - Meter 912



Upstream Turbidity - Meter 912

9/13/2004 12:01	16.8	9/14/2004 12:01	19.8	9/15/2004 12:01	28.8	9/16/2004 12:01	35.701	9/17/2004 12:01	12.4	9/18/2004 12:01	34.901	9/19/2004 12:01	60.3
9/13/2004 12:16	20.5	9/14/2004 12:16	22.9	9/15/2004 12:16	28.8	9/16/2004 12:16	31.4	9/17/2004 12:16	11.2	9/18/2004 12:16	37	9/19/2004 12:16	46.3
9/13/2004 12:31	19.9	9/14/2004 12:31	20.4	9/15/2004 12:31	25.8	9/16/2004 12:31	31.4	9/17/2004 12:31	15.101	9/18/2004 12:31	34.401	9/19/2004 12:31	56.201
9/13/2004 12:46	16.8	9/14/2004 12:46	20.101	9/15/2004 12:46	27.4	9/16/2004 12:46	31.3	9/17/2004 12:46	10.7	9/18/2004 12:46	34.5	9/19/2004 12:46	49.1
9/13/2004 13:01	18.101	9/14/2004 13:01	23.201	9/15/2004 13:01	32.6	9/16/2004 13:01	36.6	9/17/2004 13:01	9.2	9/18/2004 13:01	37.701	9/19/2004 13:01	58.1
9/13/2004 13:16	14.7	9/14/2004 13:16	22	9/15/2004 13:16	26.701	9/16/2004 13:16	34.701	9/17/2004 13:16	10	9/18/2004 13:16	35.201	9/19/2004 13:16	48.8
9/13/2004 13:31	20	9/14/2004 13:31	22.4	9/15/2004 13:31	29.5	9/16/2004 13:31	33.8	9/17/2004 13:31	12.9	9/18/2004 13:31	36.8	9/19/2004 13:31	43.401
9/13/2004 13:46	15.3	9/14/2004 13:46	24.3	9/15/2004 13:46	29.201	9/16/2004 13:46	35.901	9/17/2004 13:46	14.5	9/18/2004 13:46	36.8	9/19/2004 13:46	47.5
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9/13/2004 14:16	17.9	9/14/2004 14:16	23	9/15/2004 14:16	32	9/16/2004 14:16	35.3	9/17/2004 14:16	16.101	9/18/2004 14:16	38.3	9/19/2004 14:16	53.3
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9/13/2004 14:46	18.201	9/14/2004 14:46	19.5	9/15/2004 14:46	29.201	9/16/2004 14:46	38.401	9/17/2004 14:46	15.7	9/18/2004 14:46	35	9/19/2004 14:46	43.5
9/13/2004 15:01	17.5	9/14/2004 15:01	24.601	9/15/2004 15:01	32.401	9/16/2004 15:01	36.5	9/17/2004 15:01	10.9	9/18/2004 15:01	36.901	9/19/2004 15:01	43.8
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9/13/2004 16:16	17.601	9/14/2004 16:16	18.5	9/15/2004 16:16	33.401	9/16/2004 16:16	33.201	9/17/2004 16:16	15.8	9/18/2004 16:16	34.3	9/19/2004 16:16	37.201
9/13/2004 16:31	15.8	9/14/2004 16:31	16.201	9/15/2004 16:31	39	9/16/2004 16:31	26.3	9/17/2004 16:31	13.7	9/18/2004 16:31	33.401	9/19/2004 16:31	36.8
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9/13/2004 17:16	16.601	9/14/2004 17:16	27.201	9/15/2004 17:16	38.8	9/16/2004 17:16	25.4	9/17/2004 17:16	14.8	9/18/2004 17:16	1142.2	9/19/2004 17:16	34.3
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9/13/2004 17:46	15.8	9/14/2004 17:46	20	9/15/2004 17:46	35.901	9/16/2004 17:46	25.5	9/17/2004 17:46	14.3	9/18/2004 17:46	43.401	9/19/2004 17:46	30.9
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9/13/2004 18:31	15.7	9/14/2004 18:31	17	9/15/2004 18:31	36.6	9/16/2004 18:31	23.3	9/17/2004 18:31	15.101	9/18/2004 18:31	33.701	9/19/2004 18:31	28
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9/13/2004 21:31	16.601	9/14/2004 21:31	25.3	9/15/2004 21:31	37.6	9/16/2004 21:31	20.101	9/17/2004 21:31	28.3	9/18/2004 21:31	38	9/19/2004 21:31	31.601
9/13/2004 21:46	16.8	9/14/2004 21:46	28.9	9/15/2004 21:46	37.701	9/16/2004 21:46	13.5	9/17/2004 21:46	25.4	9/18/2004 21:46	71.101	9/19/2004 21:46	31.701
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9/13/2004 22:46	16.5	9/14/2004 22:46	24.101	9/15/2004 22:46	36.701	9/16/2004 22:46	14.7	9/17/2004 22:46	29.701	9/18/2004 22:46	46.701	9/19/2004 22:46	35.8
9/13/2004 23:01	18.601	9/14/2004 23:01	23.8	9/15/2004 23:01	40.201	9/16/2004 23:01	25.201	9/17/2004 23:01	29.701	9/18/2004 23:01	38.701	9/19/2004 23:01	32
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9/14/2004 0:31	16.3	9/15/2004 0:31	24.5	9/16/2004 0:31	41.701	9/17/2004 0:31	16.4	9/18/2004 0:31	33.3	9/19/2004 0:31	39.6	9/20/2004 0:31	34
9/14/2004 0:46	18.4	9/15/2004 0:46	27.9	9/16/2004 0:46	36	9/17/2004 0:46	19.201	9/18/2004 0:46	37.5	9/19/2004 0:46	37.401	9/20/2004 0:46	41.3
9/14/2004 1:01	19.101	9/15/2004 1:01	27.201	9/16/2004 1:01	42.8	9/17/2004 1:01	21.9	9/18/2004 1:01	28.8	9/19/2004 1:01	37.901	9/20/2004 1:01	36.5
9/14/2004 1:16	16.201	9/15/2004 1:16	26.9	9/16/2004 1:16	56.1	9/17/2004 1:16	21	9/18/2004 1:16	31	9/19/2004 1:16	46.1	9/20/2004 1:16	36.901
9/14/2004 1:31	16.201	9/15/2004 1:31	25.601	9/16/2004 1:31	37.5	9/17/2004 1:31	16	9/18/2004 1:31	31.9	9/19/2004 1:31	48.201	9/20/2004 1:31	36.701
9/14/2004 1:46	20.5	9/15/2004 1:46	26.201	9/16/2004 1:46	36.6	9/17/2004 1:46	17.601	9/18/2004 1:46	35.701	9/19/2004 1:46	41.701	9/20/2004 1:46	40.1
9/14/2004 2:01	20.3	9/15/2004 2:01	25.201	9/16/2004 2:01	37	9/17/2004 2:01	14.4	9/18/2004 2:01	34.3	9/19/2004 2:01	44.3	9/20/2004 2:01	36.6
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9/14/2004 2:31	18.101	9/15/2004 2:31	27.101	9/16/2004 2:31	38.5	9/17/2004 2:31	13.5	9/18/2004 2:31	33.201	9/19/2004 2:31	41.3	9/20/2004 2:31	38.8
9/14/2004 2:46	19.9	9/15/2004 2:46	26.101	9/16/2004 2:46	37.701	9/17/2004 2:46	23.3	9/18/2004 2:46	159.601	9/19/2004 2:46	40	9/20/2004 2:46	39.701
9/14/2004 3:01	18.101	9/15/2004 3:01	24.3	9/16/2004 3:01	37.3	9/17/2004 3:01	15.9	9/18/2004 3:01	30.3	9/19/2004 3:01	50.1	9/20/2004 3:01	37.201
9/14/2004 3:16	16.701	9/15/2004 3:16	23.5	9/16/2004 3:16	36	9/17/2004 3:16	19.9	9/18/2004 3:16	1127.801	9/19/2004 3:16	51	9/20/2004 3:16	41.401
9/14/2004 3:31	16.601	9/15/2004 3:31	25.3	9/16/2004 3:31	34.201	9/17/2004 3:31	12.4	9/18/2004 3:31	44.5	9/19/2004 3:31	52.401	9/20/2004 3:31	34.701
9/14/2004 3:46	16.4	9/15/2004 3:46	28.9	9/16/2004 3:46	38.401	9/17/2004 3:46	26.701	9/18/2004 3:46	32	9/19/2004 3:46	52.401	9/20/2004 3:46	36.6
9/14/2004 4:01	20.101	9/15/2004 4:01	26.3	9/16/2004 4:01	38.5	9/17/2004 4:01	22	9/18/2004 4:01	36.3	9/19/2004 4:01	54.201	9/20/2004 4:01	44.401
9/14/2004 4:16	19.9	9/15/2004 4:16	28.8	9/16/2004 4:16	39	9/17/2004 4:16	15.601	9/18/2004 4:16	36.201	9/19/2004 4:16	41.201	9/20/2004 4:16	45.401
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9/14/2004 5:46	22.601	9/15/2004 5:46	29.5	9/16/2004 5:46	44.401	9/17/2004 5:46	14.8	9/18/2004 5:46	44.3	9/19/2004 5:46	1126.1	9/20/2004 5:46	44.901
9/14/2004 6:01	22.601	9/15/2004 6:01	27.8	9/16/2004 6:01	40.901	9/17/2004 6:01	16.5	9/18/2004 6:01	40.3	9/19/2004 6:01	41.8	9/20/2004 6:01	45.8
9/14/2004 6:16	20.3	9/15/2004 6:16	27.9	9/16/2004 6:16	36.3	9/17/2004 6:16	9.9	9/18/2004 6:16	59.3	9/19/2004 6:16	52.8	9/20/2004 6:16	41.6
9/14/2004 6:31	20.5	9/15/2004 6:31	28.201	9/16/2004 6:31	33.401	9/17/2004 6:31	15.4	9/18/2004 6:31	47.3	9/19/2004 6:31	52.3	9/20/2004 6:31	51.6
9/14/2004 6:46	20.8	9/15/2004 6:46	29.701	9/16/2004 6:46	39.6	9/17/2004 6:46	13.601	9/18/2004 6:46	36.901	9/19/2004 6:46	52.3	9/20/2004 6:46	51.6
9/14/2004 7:01	23.5	9/15/2004 7:01	27.5	9/16/2004 7:01	45.6	9/17/2004 7:01	16.9	9/18/2004 7:01	41.401	9/19/2004 7:01	56.401	9/20/2004 7:01	43.401
9/14/2004 7:16	24.5	9/15/2004 7:16	24.5	9/16/2004 7:16	36.3	9/17/2004 7:16	14	9/18/2004 7:16	55.401	9/19/2004 7:16	56.401	9/20/2004 7:16	53.201
9/14/2004 7:31	21.101	9/15/2004 7:31	28.3	9/16/2004 7:31	32.401	9/17/2004 7:31	11.3	9/18/2004 7:31	54.201	9/19/2004 7:31	71.101	9/20/2004 7:31	51.701
9/14/2004 7:46	20.101	9/15/2004 7:46	26.9	9/16/2004 7:46	30.701	9/17/2004 7:46	16.8	9/18/2004 7:46	36.901	9/19/2004 7:46	44.401	9/20/2004 7:46	44.901
9/14/2004 8:01	22.5	9/15/2004 8:01	29.201	9/16/2004 8:01	31.601	9/17/2004 8:01	15.3	9/18/2004 8:01	37.8	9/19/2004 8:01	54.201	9/20/2004 8:01	44.901
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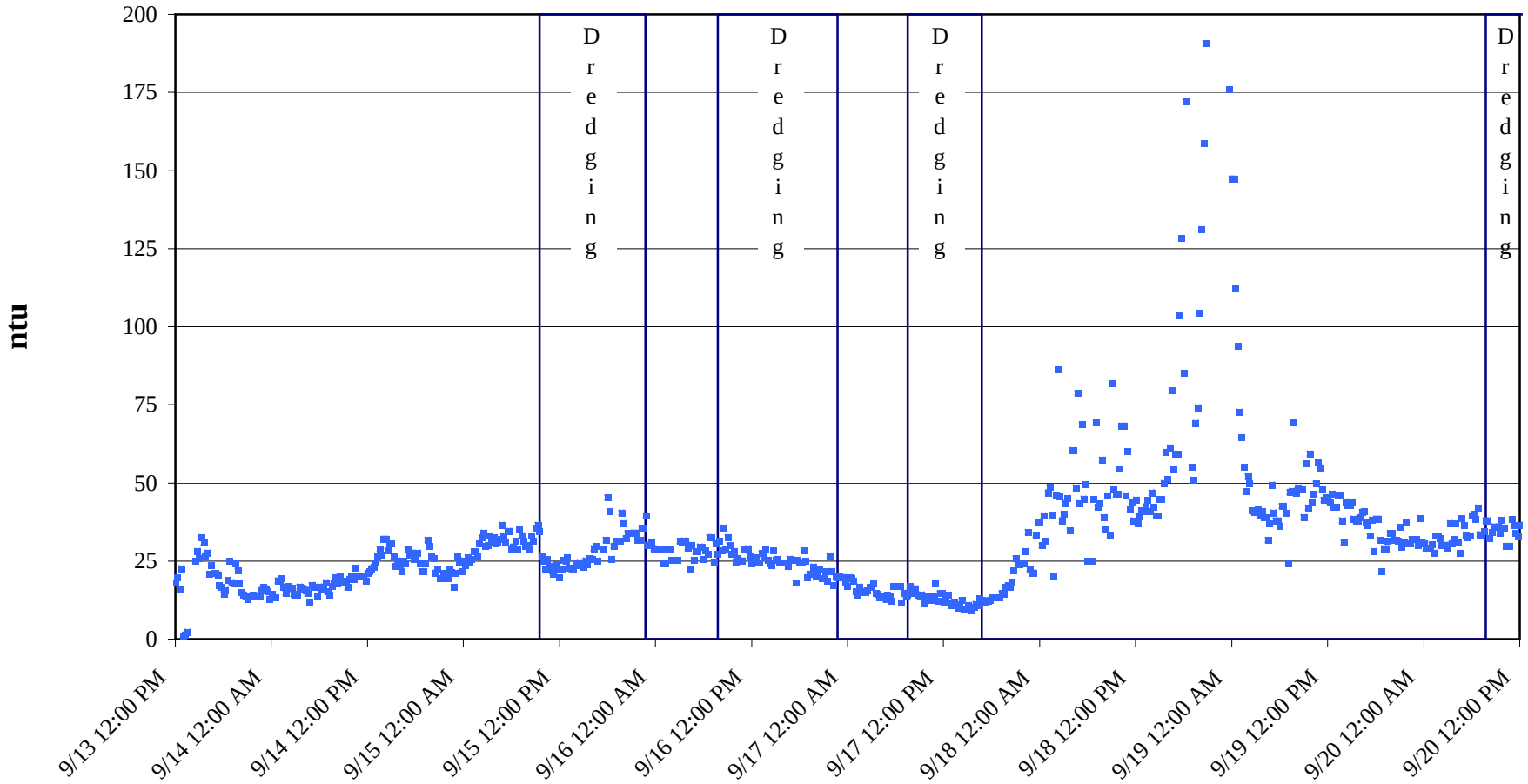
Downstream Turbidity - Meter 902



Downstream Turbidity - Meter 902

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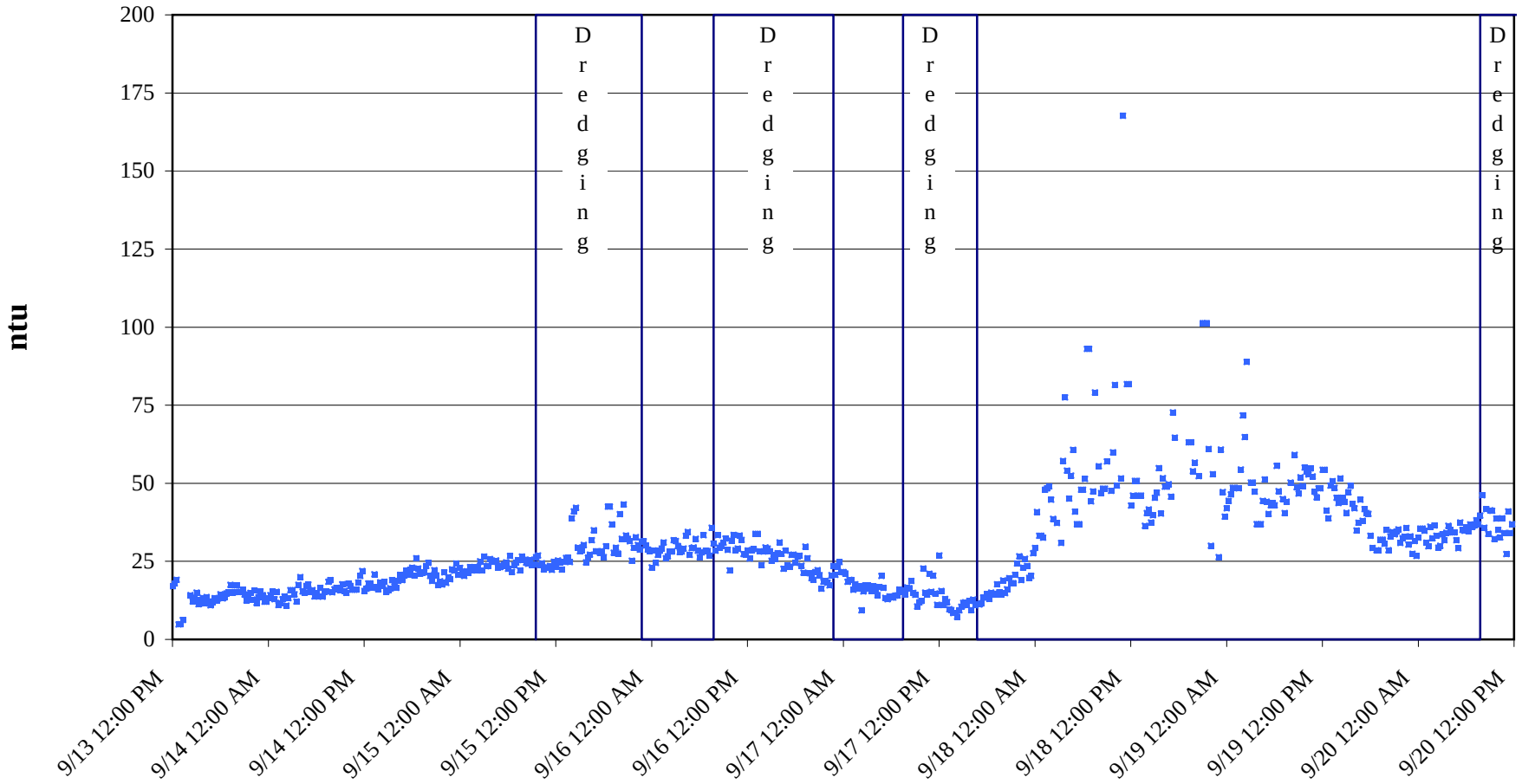
Far Downstream Turbidity - Meter 905



Far Downstream Turbidity - Meter 905

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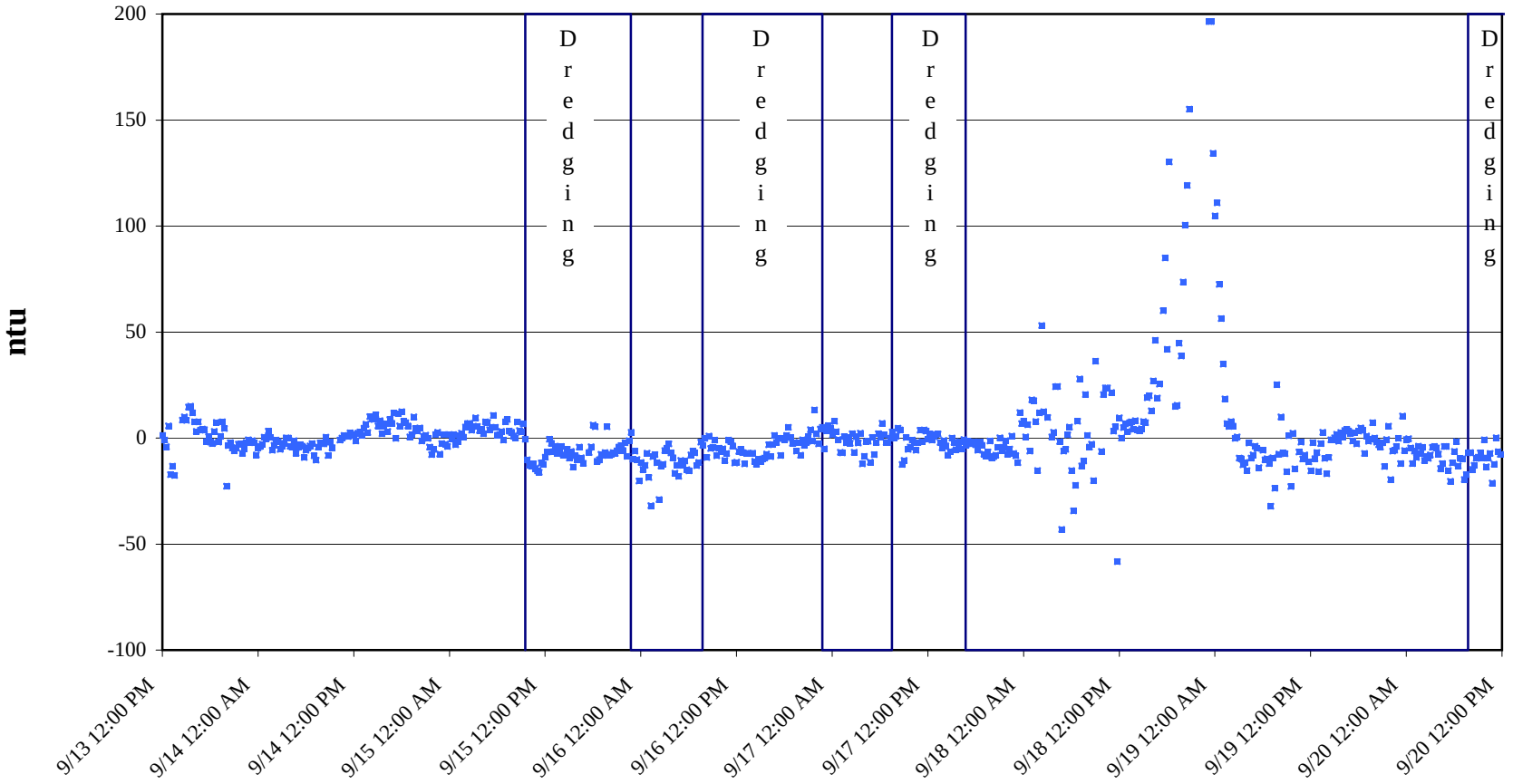
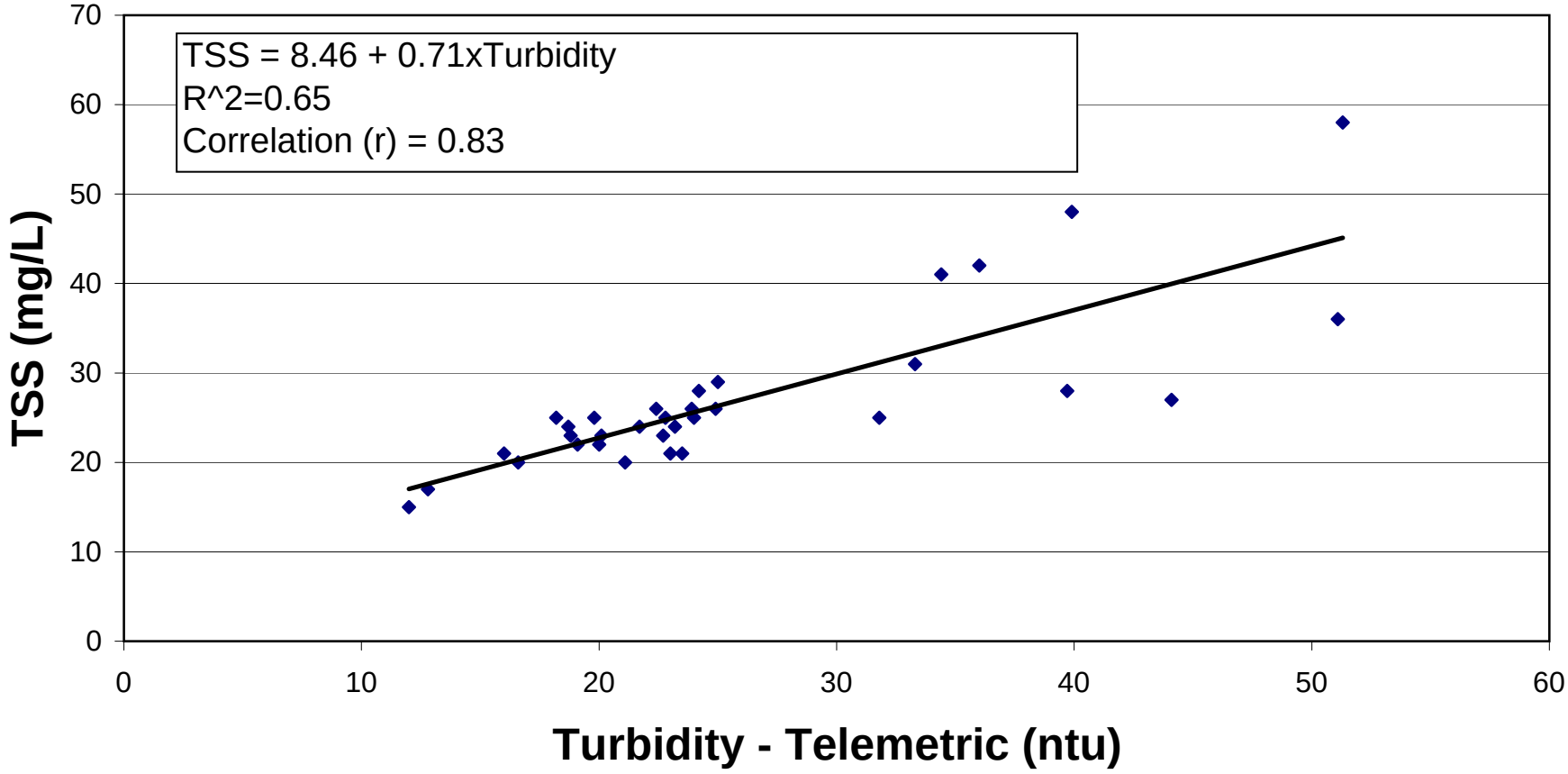
9/14/2004 3:31	12.2	9/15/2004 3:31	23.601	9/16/2004 3:31	28	9/17/2004 3:31	15.5	9/18/2004 3:31	57.201	9/19/2004 3:31	47.3	9/20/2004 3:31	34.201
9/14/2004 3:46	17.5	9/15/2004 3:46	25.701	9/16/2004 3:46	28.101	9/17/2004 3:46	17	9/18/2004 3:46	77.501	9/19/2004 3:46	36.901	9/20/2004 3:46	36.401
9/14/2004 4:01	20	9/15/2004 4:01	24.9	9/16/2004 4:01	29.101	9/17/2004 4:01	15.8	9/18/2004 4:01	54.1	9/19/2004 4:01	36.901	9/20/2004 4:01	35.1
9/14/2004 4:16	15.4	9/15/2004 4:16	24.9	9/16/2004 4:16	33.201	9/17/2004 4:16	14.2	9/18/2004 4:16	45.1	9/19/2004 4:16	36.901	9/20/2004 4:16	34.3
9/14/2004 4:31	15	9/15/2004 4:31	25.3	9/16/2004 4:31	34.401	9/17/2004 4:31	16.8	9/18/2004 4:31	52.5	9/19/2004 4:31	44.401	9/20/2004 4:31	34.3
9/14/2004 4:46	17.101	9/15/2004 4:46	23.101	9/16/2004 4:46	27.101	9/17/2004 4:46	20.3	9/18/2004 4:46	60.701	9/19/2004 4:46	51.201	9/20/2004 4:46	31.8
9/14/2004 5:01	17.601	9/15/2004 5:01	23.201	9/16/2004 5:01	29.201	9/17/2004 5:01	16.5	9/18/2004 5:01	40.901	9/19/2004 5:01	44.1	9/20/2004 5:01	29.201
9/14/2004 5:16	15.2	9/15/2004 5:16	23.601	9/16/2004 5:16	29.5	9/17/2004 5:16	13.3	9/18/2004 5:16	36.901	9/19/2004 5:16	40.201	9/20/2004 5:16	37.5
9/14/2004 5:31	15.8	9/15/2004 5:31	24	9/16/2004 5:31	32.201	9/17/2004 5:31	12.9	9/18/2004 5:31	36.901	9/19/2004 5:31	43	9/20/2004 5:31	35.1
9/14/2004 5:46	13.8	9/15/2004 5:46	24.701	9/16/2004 5:46	28.4	9/17/2004 5:46	13.8	9/18/2004 5:46	47.901	9/19/2004 5:46	43.701	9/20/2004 5:46	34.8
9/14/2004 6:01	15	9/15/2004 6:01	22.601	9/16/2004 6:01	26.4	9/17/2004 6:01	13.4	9/18/2004 6:01	47.901	9/19/2004 6:01	43	9/20/2004 6:01	35.901
9/14/2004 6:16	13.8	9/15/2004 6:16	26.701	9/16/2004 6:16	27.9	9/17/2004 6:16	13.4	9/18/2004 6:16	51.401	9/19/2004 6:16	55.6	9/20/2004 6:16	34.701
9/14/2004 6:31	16.5	9/15/2004 6:31	21.701	9/16/2004 6:31	33.401	9/17/2004 6:31	14	9/18/2004 6:31	93.001	9/19/2004 6:31	47.5	9/20/2004 6:31	36.8
9/14/2004 6:46	13.7	9/15/2004 6:46	23.9	9/16/2004 6:46	28.4	9/17/2004 6:46	14.101	9/18/2004 6:46	93.001	9/19/2004 6:46	244.001	9/20/2004 6:46	36.1
9/14/2004 7:01	15.2	9/15/2004 7:01	24.601	9/16/2004 7:01	28.3	9/17/2004 7:01	16	9/18/2004 7:01	44.201	9/19/2004 7:01	45	9/20/2004 7:01	36.701
9/14/2004 7:16	15.4	9/15/2004 7:16	25.4	9/16/2004 7:16	26.8	9/17/2004 7:16	15.2	9/18/2004 7:16	47.401	9/19/2004 7:16	40.5	9/20/2004 7:16	38.201
9/14/2004 7:31	18.5	9/15/2004 7:31	22.101	9/16/2004 7:31	35.8	9/17/2004 7:31	15.601	9/18/2004 7:31	79.101	9/19/2004 7:31	44.1	9/20/2004 7:31	36.8
9/14/2004 7:46	19	9/15/2004 7:46	26.5	9/16/2004 7:46	30.701	9/17/2004 7:46	14.5	9/18/2004 7:46	433.6	9/19/2004 7:46	1128.7	9/20/2004 7:46	39.701
9/14/2004 8:01	15.101	9/15/2004 8:01	25.5	9/16/2004 8:01	28.4	9/17/2004 8:01	16.701	9/18/2004 8:01	55.5	9/19/2004 8:01	50.201	9/20/2004 8:01	46.201
9/14/2004 8:16	16.101	9/15/2004 8:16	24.601	9/16/2004 8:16	33.401	9/17/2004 8:16	16.4	9/18/2004 8:16	46.901	9/19/2004 8:16	322.201	9/20/2004 8:16	35.8
9/14/2004 8:31	16.5	9/15/2004 8:31	24.201	9/16/2004 8:31	29.4	9/17/2004 8:31	18.701	9/18/2004 8:31	48.3	9/19/2004 8:31	59.1	9/20/2004 8:31	41.701
9/14/2004 8:46	16.101	9/15/2004 8:46	25.601	9/16/2004 8:46	30	9/17/2004 8:46	14.9	9/18/2004 8:46	48.3	9/19/2004 8:46	48.701	9/20/2004 8:46	33.8
9/14/2004 9:01	15.7	9/15/2004 9:01	23.8	9/16/2004 9:01	31	9/17/2004 9:01	14.3	9/18/2004 9:01	57	9/19/2004 9:01	46.701	9/20/2004 9:01	41.401
9/14/2004 9:16	17.701	9/15/2004 9:16	24.101	9/16/2004 9:16	32.3	9/17/2004 9:16	10.601	9/18/2004 9:16	625.201	9/19/2004 9:16	51.901	9/20/2004 9:16	41.201
9/14/2004 9:31	15.5	9/15/2004 9:31	26.4	9/16/2004 9:31	28.701	9/17/2004 9:31	11.9	9/18/2004 9:31	47.6	9/19/2004 9:31	49.1	9/20/2004 9:31	32.201
9/14/2004 9:46	14.9	9/15/2004 9:46	26.9	9/16/2004 9:46	22.101	9/17/2004 9:46	12.3	9/18/2004 9:46	59.901	9/19/2004 9:46	55	9/20/2004 9:46	38.701
9/14/2004 10:01	17.8	9/15/2004 10:01	23.9	9/16/2004 10:01	31.601	9/17/2004 10:01	22.701	9/18/2004 10:01	81.501	9/19/2004 10:01	53.8	9/20/2004 10:01	35.1
9/14/2004 10:16	17.101	9/15/2004 10:16	24.4	9/16/2004 10:16	33.5	9/17/2004 10:16	15	9/18/2004 10:16	49.3	9/19/2004 10:16	52.8	9/20/2004 10:16	32.701
9/14/2004 10:31	15.9	9/15/2004 10:31	22.5	9/16/2004 10:31	28.601	9/17/2004 10:31	14.4	9/18/2004 10:31	1131.301	9/19/2004 10:31	54.8	9/20/2004 10:31	38.8
9/14/2004 10:46	15.9	9/15/2004 10:46	23.101	9/16/2004 10:46	29.101	9/17/2004 10:46	21	9/18/2004 10:46	51.6	9/19/2004 10:46	52.201	9/20/2004 10:46	34.1
9/14/2004 11:01	16	9/15/2004 11:01	23.101	9/16/2004 11:01	33.3	9/17/2004 11:01	15.3	9/18/2004 11:01	167.701	9/19/2004 11:01	47.3	9/20/2004 11:01	27.3
9/14/2004 11:16	18.201	9/15/2004 11:16	23.5	9/16/2004 11:16	31.9	9/17/2004 11:16	20.4	9/18/2004 11:16	1138.7	9/19/2004 11:16	45.5	9/20/2004 11:16	41
9/14/2004 11:31	20.3	9/15/2004 11:31	22.3	9/16/2004 11:31	27.3	9/17/2004 11:31	14.7	9/18/2004 11:31	81.801	9/19/2004 11:31	48.401	9/20/2004 11:31	34.1
9/14/2004 11:46	21.9	9/15/2004 11:46	24.9	9/16/2004 11:46	27.201	9/17/2004 11:46	11.101	9/18/2004 11:46	81.801	9/19/2004 11:46	48.401	9/20/2004 11:46	36.901
												9/20/2004 12:01	35.401

Turbidity
Downstream/Upstream Difference
(Downstream Minus Upstream)



Attachment 4

TSS/Turbidity Correlation
Data presented are Draft and Preliminary



Note: Includes data collected 8/30/04 - 9/15/04

GW Partners
Lower Fox River - OU-1
04G007
TSS and Field Turbidity - Draft and Preliminary

							Comments	
Date	Time	Telemetric Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Telemetric Turbidity	Sonde Location	Wind Conditions	Sample ID	Other
8/30/2004	13:47	19.8	25	5.2	912	Calm (0-5 mph)	1 RA 04 DEWT SW 1 - 912	Location 1 in SQL Database
8/30/2004	13:54	19.1	22	2.9	902	Calm (0-5 mph)	1 RA 04 DEWT SW 2 - 902	Location 1 in SQL Database
8/30/2004	14:01	20.1	23	2.9	905	Calm (0-5 mph)	1 RA 04 DEWT SW 3 - 905	Location 1 in SQL Database
8/31/2004	19:32	12.0	15	3	912	Calm (0-5 mph)	1 RA 04 DEWT SW 4 - 912	Location 1 in SQL Database
8/31/2004	19:40	18.2	25	6.8	902	Calm (0-5 mph)	1 RA 04 DEWT SW 5 - 902 1 RA 04 DEWT SW 5Dup - 902	Location 1 in SQL Database
8/31/2004	19:47	12.8	17	4.2	905	Calm (0-5 mph)	1 RA 04 DEWT SW 6 - 905	Location 1 in SQL Database
9/1/2004	12:56	24.2	28	3.8	912	Calm (0-5 mph)	1 RA 04 DEWT SW 7RINSE - 905	Location 1 in SQL Database
9/1/2004	13:08	51.1	36	-15.1	902	Calm (0-5 mph)	1 RA 04 DEWT SW 8 - 912	Location 1 in SQL Database
9/1/2004	13:15	22.8	25	2.2	905	Calm (0-5 mph)	1 RA 04 DEWT SW 9 - 902	Location 1 in SQL Database
9/2/2004	12:16	22.4	26	3.6	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 10 - 905	Location 1 in SQL Database
9/2/2004	12:31	34.4	41	6.6	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 11 - 912	Location 1 in SQL Database
9/2/2004	12:44	33.3	31	-2.3	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 12 - 902 1 RA 04 DEWT SW 13 - 905	Location 1 in SQL Database
9/3/2004	11:55	21.1	20	-1.1	912	Calm (0-10 mph)	1 RA 04 DEWT SW 14 - 912	Location 1 in SQL Database
9/3/2004	12:05	39.7	28	-11.7	902	Calm (0-10 mph)	1 RA 04 DEWT SW 15 - 902 1 RA 04 DEWT SW 15Dup - 902	Location 1 in SQL Database
9/3/2004	12:13	16.6	20	3.4	905	Calm (0-10 mph)	1 RA 04 DEWT SW 16 - 905 1 RA 04 DEWT SW 16RINSE - 905	Location 1 in SQL Database
9/7/2004	7:22	20		na	902	Calm (0-10 mph)	NA	Location 1 in SQL Database
9/7/2004	7:26	20.7		na	905	Calm (0-10 mph)	NA	Location 1 in SQL Database
9/7/2004	7:51	15.5		na	912	Calm (0-10 mph)	NA	Location 1 in SQL Database
9/7/2004	11:52	18.7	24	5.3	912	Calm (0-10 mph)	1 RA 04 DEWT SW 18 - 912	Location 1 in SQL Database
9/7/2004	12:07	25	29	4	902	Calm (0-10 mph)	1 RA 04 DEWT SW 19 - 902	Location 1 in SQL Database
9/7/2004	12:15	22.7	23	0.3	905	Calm (0-10 mph)	1 RA 04 DEWT SW 20 - 905	Location 1 in SQL Database
9/8/2004	11:39	51.3	58	6.7	912	Windy (15-20 mph)	1 RA 04 DEWT SW 21 - 912	Location 1 in SQL Database
9/8/2004	11:50	36	42	6	902	Windy (15-20 mph)	1 RA 04 DEWT SW 22 - 902	Location 1 in SQL Database
9/8/2004	11:56	39.9	48	8.1	905	Windy (15-20 mph)	1 RA 04 DEWT SW 23 - 905	Location 1 in SQL Database
9/9/2004	11:11	31.8	25	-6.8	912	Calm (0-5 mph)	1 RA 04 DEWT SW 24 - 912	Location 2 in SQL Database
9/9/2004	11:20	24	25	1	902	Calm (0-5 mph)	1 RA 04 DEWT SW 25 - 902	Location 2 in SQL Database
9/9/2004	11:35	23.2	24	0.8	905	Calm (0-5 mph)	1 RA 04 DEWT SW 26 - 905	Location 2 in SQL Database
9/10/2004	9:36	23.5	21	-2.5	912	Windy (10-20 mph)	1 RA 04 DEWT SW 27 - 912	Location 3 in SQL Database
9/10/2004	9:48	1100	22	na	902	Windy (10-20 mph)	1 RA 04 DEWT SW 28 - 902 1 RA 04 DEWT SW 28Dup - 902	Location 3, Telemetric reading appears unreal
9/10/2004	10:00	657	24	na	905	Windy (10-20 mph)	1 RA 04 DEWT SW 29 - 905 1 RA 04 DEWT SW 30RINSE - 905	Location 3, Telemetric reading appears unreal
9/11/2004	9:43	23	21	-2	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 31 - 912	Location 4 in SQL Database
9/11/2004	9:53	21.7	24	2.3	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 32 - 902	Location 4 in SQL Database
9/11/2004	10:01	44.1	27	-17.1	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 33 - 905	Location 4 in SQL Database
9/14/2004	10:43	18.8	23	4.2	912	Windy (10-20 mph)	1 RA 04 000A SW 34 - 912	Location 5 in SQL Database
9/14/2004	10:52	20	22	2	902	Windy (10-20 mph)	1 RA 04 000A SW 35 - 902	Location 5 in SQL Database
9/14/2004	11:01	16	21	5	905	Windy (10-20 mph)	1 RA 04 000A SW 36 - 905	Location 5 in SQL Database
9/15/2004	11:16	36.9	<20	na	912	Windy (15-25 mph)	1 RA 04 000A SW 37 - 912	Location 6 in SQL Database
9/15/2004	11:31	23.9	26	2.1	902	Windy (15-25 mph)	1 RA 04 000A SW 38 - 902	Location 6 in SQL Database
9/15/2004	11:45	24.9	26	1.1	905	Windy (15-25 mph)	1 RA 04 000A SW 39 - 905	Location 6 in SQL Database
9/16/2004	9:30	36		na	912	Breezy (5-15 mph)	1 RA 04 000A SW 40 - 912	Location 6 in SQL Database
9/16/2004	9:55	26		na	902	Breezy (5-15 mph)	1 RA 04 000A SW 41 - 902 1 RA 04 000A SW 41Dup - 902	Location 6 in SQL Database
9/16/2004	10:03	34.5		na	905	Breezy (5-15 mph)	1 RA 04 000A SW 42 - 905 1 RA 04 000A SW 43RINSE - 905	Location 6 in SQL Database
9/17/2004	10:32	18.2		na	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 44 - 912	Location 6 in SQL Database
9/17/2004	10:58	17.6		na	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 45 - 902	Location 6 in SQL Database
9/17/2004	11:08	15.3		na	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 46 - 905	Location 6 in SQL Database
9/20/2004	12:57	39.2		na	912	Breezy (5-15 mph)	1 RA 04 000A SW 47 - 912	Location 6 in SQL Database
9/20/2004	12:31	32.4		na	902	Breezy (5-15 mph)	1 RA 04 000A SW 48 - 902 1 RA 04 000A SW 48Dup - 902	Location 6 in SQL Database
9/20/2004	12:22	31.7		-31.7	905	Breezy (5-15 mph)	1 RA 04 000A SW 49 - 905 1 RA 04 000A SW 50RINSE - 905	Location 6 in SQL Database
9/21/2004	10:08	39.4		-39.4	905	Breezy (5-15 mph)	1 RA 04 000A SW 51 - 905	Location 7 in SQL Database
9/21/2004	10:21	35.4		-35.4	902	Breezy (5-15 mph)	1 RA 04 000A SW 52 - 902	Location 7 in SQL Database
9/21/2004	10:35	41.7		-41.7	912	Breezy (5-15 mph)	1 RA 04 000A SW 53 - 912	Location 7 in SQL Database
9/22/2004				0	905		1 RA 04 000A SW 54 - 905	Location 7 in SQL Database
9/22/2004				0	902		1 RA 04 000A SW 55 - 902	Location 7 in SQL Database
9/22/2004				0	912		1 RA 04 000A SW 56 - 912	Location 7 in SQL Database

Data presented are Draft and Preliminary. These data have not undergone QA procedures and should not be viewed as final.

Attachment 5

GW Partners
Lower Fox River - OU-1
04G007
Effluent Results - Draft and Preliminary

Date	TSS (mg/L)	Ammonia Nitrogen (mg/L)
9/3/2004	21	<0.32
9/7/2004	<10	0.67
9/9/2004	19	3.1
9/10/2004	24	4.5
9/11/2004	<20	2.9
9/13/2004	<20	4.9
9/15/2004	87	

Data received by 9/21/04
Data presented are Draft and Preliminary.
These data have not undergone QA procedures and should not be viewed as final.

DRAFT

Foth & Van Dyke

Memorandum

September 29, 2004

TO: Ben Hung, WDNR
Gary Kincaid, WDNR
Jim Hahnenberg, EPA

CC: Bill Hartman, GW Partners
Sherman LaViolette, CH2MHill
Mike Jury, CH2MHill
Tara Konkle, Foth & Van Dyke
Steve Laszewski, Foth & Van Dyke

FR: Jim Hutchison, Foth & Van Dyke

RE: OU1 2004 Environmental Monitoring Data – September 21 through September 28, 2004

Attached are monitoring data for the one week period beginning September 21, 2004 and ending September 28, 2004 for the environmental monitoring activities pursuant to the 2004 RA Work Plan, May, 2004 and subsequent addendum. If you have any questions or comments please contact Jim Hutchison at (920) 497 2500 or at jhutchison@foth.com. In addition to the weekly data summary, project data will be provided in a database format following completion of the 2004 RA work.

Data presented are draft and preliminary. These data have not undergone QA procedures and should not be viewed as final.

Air Monitoring Data:

Summary: Air sampling at the four meter locations was initiated on August 7, 2004. Sampling consisted of a 72 hour sampling event per week. Continuous sampling began on August 30, 2004. PCBs have not been detected to date.

Attachment: Attachment 1- Summary of Air Sampling Results Calculated to Date
Attachment 2- Monitor Location Sketch

Surface Water Data:

Summary: River turbidity meters began operation on August 20, 2004 monitoring river turbidity (NTUs) every 15 minutes at three locations. The meters are located upstream (meter 912), downstream (meter 902) and far downstream (meter 905) of dredging activities. Generally the data show that the downstream turbidity has been well within

acceptable limits of the upstream turbidity except for isolated incidents and during a wind event 9/18 to 9/19. **Please note the turbidity data graphs indicate dredging and no dredging times.**

Attachment: Attachment 3- Graphs and Tabulation of Turbidity Data for Upstream, Downstream, Far Downstream and Upstream/Downstream Difference Graph

Field Surface Water Data

Summary: Field data includes hand held turbidity measurements and TSS sampling taken at the turbidity monitoring stations between August 30, 2004 and September 28, 2004. A TSS/ Turbidity Correlation between TSS and turbidity to date shows a correlation coefficient of 0.70.

Attachment: Attachment 4-TSS and Field Turbidity Data and TSS/Turbidity Correlation

Water Treatment Data:

Summary: The effluent water was tested for TSS, PCBs and Ammonia. BOD testing was initiated on September 16, 2004. Limited test data has been provided by the laboratory to date.

Attachment: Attachment 5- Effluent water results

Sediment Sample Verification:

Summary: Post dredging sediment samples have not been collected to date.

Attachment: None

Note: transmitted when available, as these data will be obtained less frequently then other project environmental data.

Sand Placement Verification:

Summary: Sand placement has not been initiated to date

Attachment: None

Note: transmitted when available, as these data will be obtained less frequently then other project environmental data.

Attachment 1

GW Partners, LLC

Lower Fox River Operable Unit 1

Summary of Air Sampling Results Calculated through September 24, 2004

All Results Reported in Total PCBs[1]

Dates	Sampling Round	Location ID	Sample ID	Laboratory Method[2]	Laboratory Reporting Limit (Total µg of PCBs)	Laboratory Results (Total µg of PCBs)[3]	Total Air Volume Sampled (Total m^3)[4]		Calculated PCB Conc'n ($\mu g/m^3$)[5]
8-30-04 to 9-2-04	5	GWP-1	PCB-01-5	EPA TO-4A	0.5	ND	1042.698	≤	0.0004795
8-30-04 to 9-2-04	5	GWP-2	PCB-02-5	EPA TO-4A	0.5	ND	1040.625	≤	0.0004805
8-30-04 to 9-2-04	5	GWP-3	PCB-03-5	EPA TO-4A	0.5	ND	1006.328	≤	0.0004969
8-30-04 to 9-2-04	5	GWP-4	PCB-04-5	EPA TO-4A	0.5	ND	1033.522	≤	0.0004838
9-2-04 to 9-5-04	6	GWP-1	PCB-01-6	EPA TO-4A	0.5	ND	1092.83	≤	0.0004575
9-2-04 to 9-5-04	6	GWP-2	PCB-02-6	EPA TO-4A	0.5	ND	1100.092	≤	0.0004545
9-2-04 to 9-5-04	6	GWP-3	PCB-03-6	EPA TO-4A	0.5	ND	1090.111	≤	0.0004587
9-2-04 to 9-5-04	6	GWP-4	PCB-04-6	EPA TO-4A	0.5	ND	1110.041	≤	0.0004504
9-5-04 to 9-8-04	7	GWP-1	PCB-01-7	EPA TO-4A	0.5	ND	1166.347	≤	0.0004287
9-5-04 to 9-8-04	7	GWP-2	PCB-02-7	EPA TO-4A	0.5	ND	1144.433	≤	0.0004369
9-5-04 to 9-8-04	7	GWP-3	PCB-03-7	EPA TO-4A	0.5	ND	697.249	≤	0.0007171
9-5-04 to 9-8-04	7	GWP-4	PCB-04-7	EPA TO-4A	0.5	ND	660.474	≤	0.0007570
9-8-04 to 9-11-04	8	GWP-1	PCB-01-8	EPA TO-4A	0.5	ND	1007.649	≤	0.0004962
9-8-04 to 9-11-04	8	GWP-2	PCB-02-8	EPA TO-4A	0.5	ND	1010.031	≤	0.0004950
9-8-04 to 9-11-04	8	GWP-3	PCB-03-8	EPA TO-4A	0.5	ND	991.44	≤	0.0005043
9-8-04 to 9-11-04	8	GWP-4	PCB-04-8	EPA TO-4A	0.5	ND	1015.837	≤	0.0004922
9-11-04 to 9-14-04	9	GWP-1	PCB-01-9	EPA TO-4A	0.5	ND	1082.083	≤	0.0004621
9-11-04 to 9-14-04	9	GWP-2	PCB-02-9	EPA TO-4A	0.5	ND	1070.055	≤	0.0004673
9-11-04 to 9-14-04	9	GWP-3	PCB-03-9	EPA TO-4A	0.5	ND	1053.157	≤	0.0004748
9-11-04 to 9-14-04	9	GWP-4	PCB-04-9	EPA TO-4A	0.5	ND	1066.833	≤	0.0004687
9-11-04 to 9-14-04	9	N/A	Field Blank 3	EPA TO-4A	0.5	ND	N/A		N/A

Notes:

1. The laboratory reports the results in terms of significant Aroclors. Included are Aroclors 1016, 1221, 1232, 1242, 1248, 1254 and 1260. This table reports total PCB Aroclors and calculates a total PCB ambient air concentration.

2. EPA Compendium Method TO-4A is for determination of pesticides and polychlorinated biphenyls in ambient air using high volume polyurethane foam (PUF) sampling followed by gas chromoatographic/multi-detector detection (GC/MD).

3. ND = "None Detected". Given the laboratory reporting limit is 0.5 ug/sample, the concentration is calculated based on this value and reported as less than this concentration.

4. During Sampling Round 7 from 9-5-04 to 9-8-04, the electric line was cut during excavation for the effluent line. As a result, power was lost for a period of time, causing less volume of air to be collected for the period at GWP-3 and GWP-4. PCBs were still not detected in the laboratory samples, and the reported concentration is a function of the volume of air collected during the period.

5. As a frame of reference, the airborne concentrations observed here could be compared to the airborne concentrations observed during the previous 56/57 Demonstration Project in 1999. During that study, concentrations collected within the property boundaries of the remediation area ranged from 0.0013 to 0.0216 $\mu g/m^3$ during dredging. Baseline concentrations, obtained prior to this same dredging project ranged from 0.0003 to 0.0016 ug/m^3.

Attachment 2

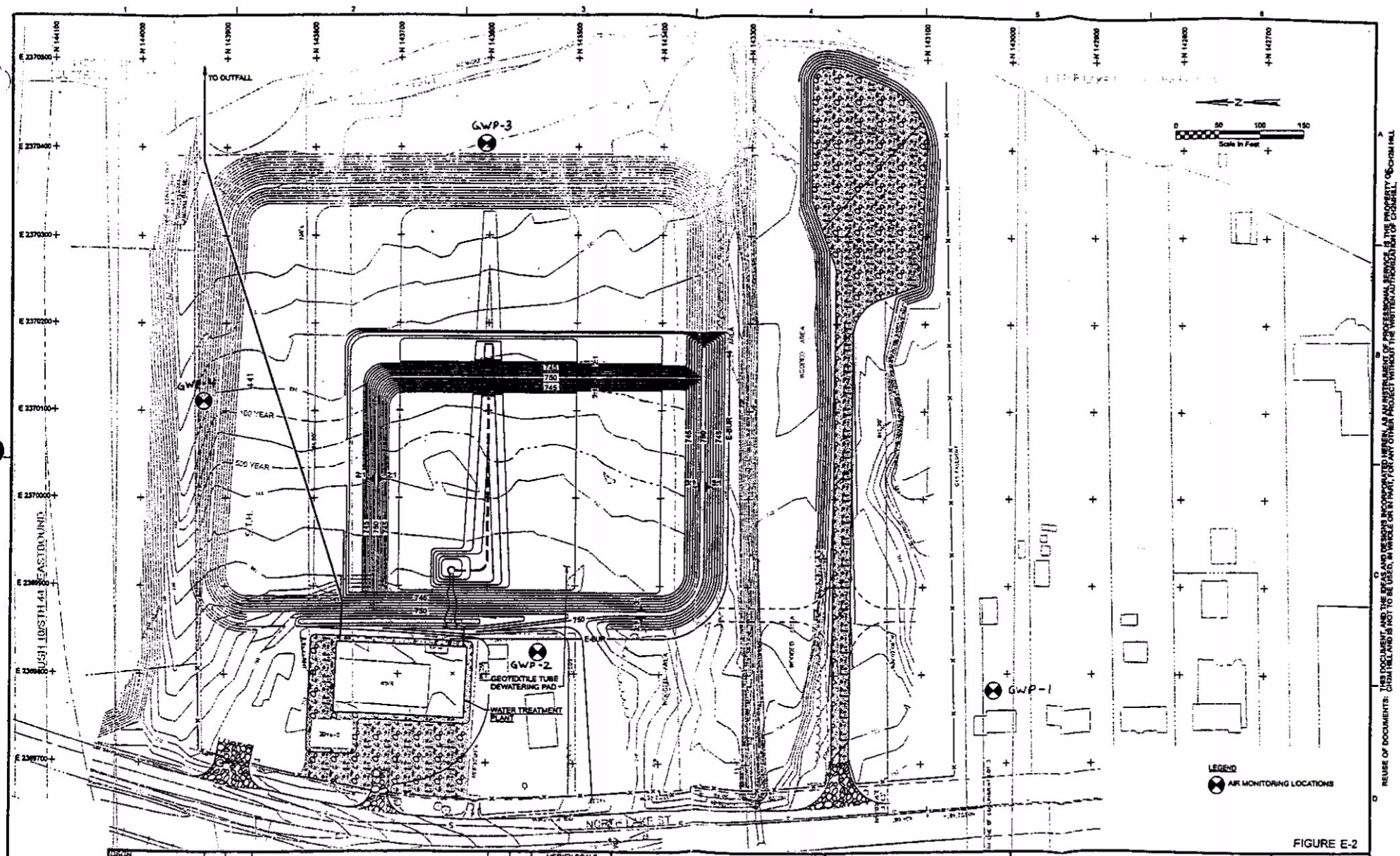


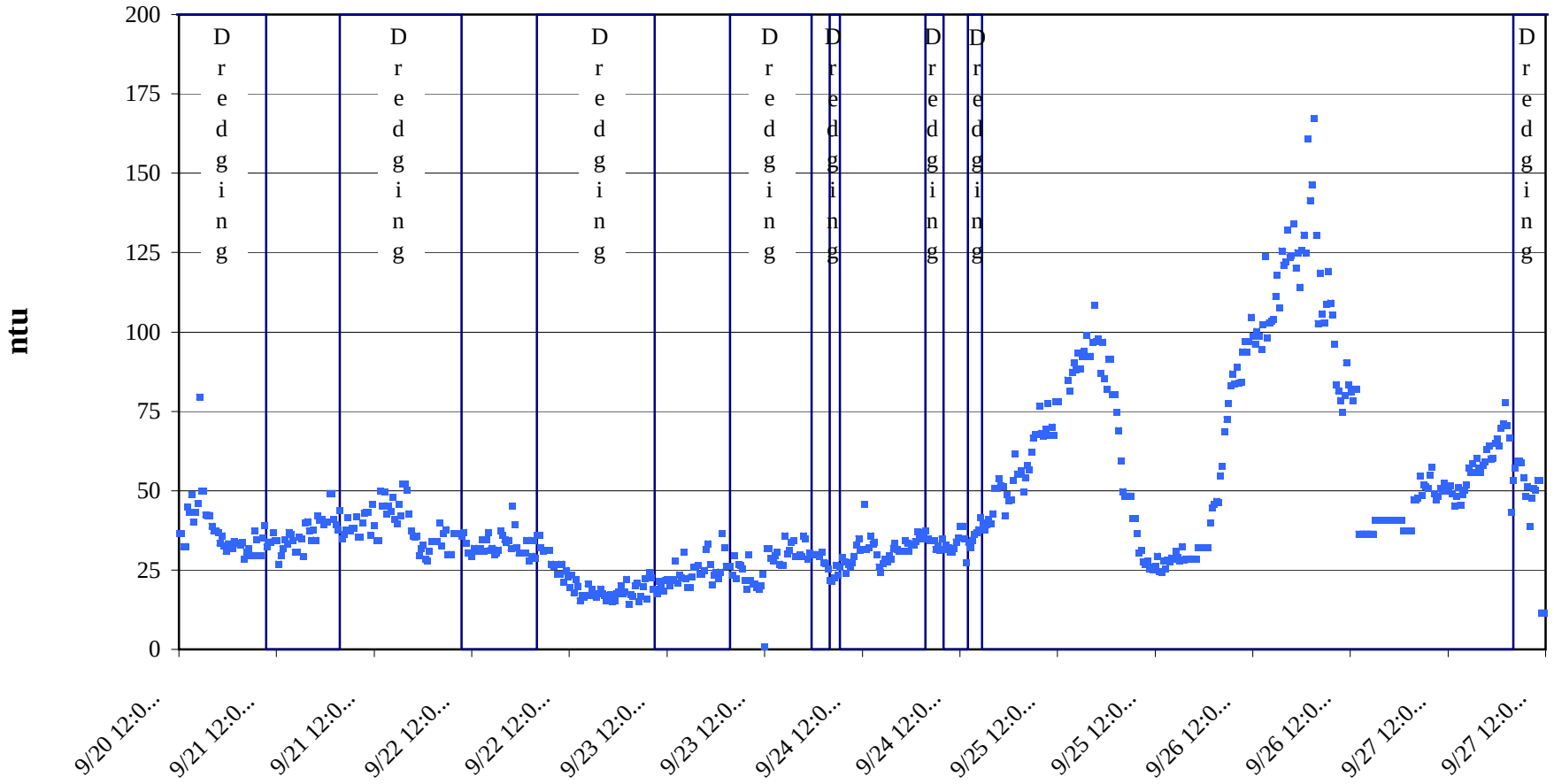
FIGURE E-2

DESIGN	C.M.LIETHEN				VERIFY SCALE	CH2MHILL	LOWER FOX RIVER (OU1) 2004 REMEDIAL ACTION TOWN OF MENASHA, WI G.W. PARTNERS, LLC	AIR MONITORING LOCATIONS	SHEET
DR	I.M.ZAEFKE				BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.				DWG C-1
CHK	D.J.PLOMB								DATE MAY 2004
APVD	S.D.LAVOLETTE	NO	DATE	REVISION	BY APVD				PROJ 315814.RA.01

FILENAME: tr5nc1416_183838.dgn PLOT DATE: 14-MAY-2004 PLOT TIME: 10:40:11

Attachment 3

Downstream Turbidity - Meter 902



2

9/21/2004 12:01	39	9/22/2004 12:01	19.601	9/23/2004 12:01	0.9	9/24/2004 12:01	38.901	9/25/2004 12:01	26.201	9/26/2004 12:01	81.201
9/21/2004 12:16	34.201	9/22/2004 12:16	23.3	9/23/2004 12:16	31.701	9/24/2004 12:16	38.901	9/25/2004 12:16	29.4	9/26/2004 12:16	78.301
9/21/2004 12:31	34.201	9/22/2004 12:31	17.8	9/23/2004 12:31	31.701	9/24/2004 12:31	34.901	9/25/2004 12:31	24.701	9/26/2004 12:31	82.101
9/21/2004 12:46	50	9/22/2004 12:46	22.201	9/23/2004 12:46	28.8	9/24/2004 12:46	27.3	9/25/2004 12:46	24.3	9/26/2004 12:46	82.101
9/21/2004 13:01	45.3	9/22/2004 13:01	20	9/23/2004 13:01	27.8	9/24/2004 13:01	33.8	9/25/2004 13:01	28	9/26/2004 13:01	36.401
9/21/2004 13:16	49.6	9/22/2004 13:16	15.4	9/23/2004 13:16	29.701	9/24/2004 13:16	32.201	9/25/2004 13:16	25.601	9/26/2004 13:16	36.401
9/21/2004 13:31	42.701	9/22/2004 13:31	16.9	9/23/2004 13:31	30.601	9/24/2004 13:31	34.5	9/25/2004 13:31	28.101	9/26/2004 13:31	36.401
9/21/2004 13:46	45.401	9/22/2004 13:46	16.4	9/23/2004 13:46	27	9/24/2004 13:46	36.201	9/25/2004 13:46	27.701	9/26/2004 13:46	36.401
9/21/2004 14:01	43.5	9/22/2004 14:01	16.9	9/23/2004 14:01	26.5	9/24/2004 14:01	36.701	9/25/2004 14:01	28.9	9/26/2004 14:01	36.401
9/21/2004 14:16	48	9/22/2004 14:16	20.701	9/23/2004 14:16	26.5	9/24/2004 14:16	37.901	9/25/2004 14:16	28.601	9/26/2004 14:16	36.401
9/21/2004 14:31	41.1	9/22/2004 14:31	17.101	9/23/2004 14:31	35.901	9/24/2004 14:31	41.5	9/25/2004 14:31	31.101	9/26/2004 14:31	36.401
9/21/2004 14:46	39.6	9/22/2004 14:46	18.9	9/23/2004 14:46	30.101	9/24/2004 14:46	39.8	9/25/2004 14:46	29	9/26/2004 14:46	36.401
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9/21/2004 15:16	42.1	9/22/2004 15:16	16.601	9/23/2004 15:16	33.701	9/24/2004 15:16	39.3	9/25/2004 15:16	32.401	9/26/2004 15:16	40.6
9/21/2004 15:31	52.1	9/22/2004 15:31	17.4	9/23/2004 15:31	34.201	9/24/2004 15:31	41	9/25/2004 15:31	28.201	9/26/2004 15:31	40.6
9/21/2004 15:46	52.1	9/22/2004 15:46	19.101	9/23/2004 15:46	29.3	9/24/2004 15:46	39.6	9/25/2004 15:46	28.5	9/26/2004 15:46	40.6
9/21/2004 16:01	50.1	9/22/2004 16:01	17.5	9/23/2004 16:01	29.3	9/24/2004 16:01	42.8	9/25/2004 16:01	28.5	9/26/2004 16:01	40.6
9/21/2004 16:16	42.901	9/22/2004 16:16	16.9	9/23/2004 16:16	29.8	9/24/2004 16:16	50.8	9/25/2004 16:16	28.5	9/26/2004 16:16	40.6
9/21/2004 16:31	37.3	9/22/2004 16:31	15.3	9/23/2004 16:31	29.201	9/24/2004 16:31	50.8	9/25/2004 16:31	28.5	9/26/2004 16:31	40.6
9/21/2004 16:46	35.8	9/22/2004 16:46	15.8	9/23/2004 16:46	35.901	9/24/2004 16:46	53.901	9/25/2004 16:46	28.5	9/26/2004 16:46	40.6
9/21/2004 17:01	35.5	9/22/2004 17:01	17.3	9/23/2004 17:01	34.8	9/24/2004 17:01	51.5	9/25/2004 17:01	28.5	9/26/2004 17:01	40.6
9/21/2004 17:16	35.901	9/22/2004 17:16	14.9	9/23/2004 17:16	28.4	9/24/2004 17:16	51.401	9/25/2004 17:16	32.201	9/26/2004 17:16	40.6
9/21/2004 17:31	29.701	9/22/2004 17:31	15.5	9/23/2004 17:31	30.5	9/24/2004 17:31	42.1	9/25/2004 17:31	32.201	9/26/2004 17:31	40.6
9/21/2004 17:46	31.701	9/22/2004 17:46	17.701	9/23/2004 17:46	30	9/24/2004 17:46	48.701	9/25/2004 17:46	32.201	9/26/2004 17:46	40.6
9/21/2004 18:01	32.8	9/22/2004 18:01	18.201	9/23/2004 18:01	30	9/24/2004 18:01	47	9/25/2004 18:01	32.201	9/26/2004 18:01	40.6
9/21/2004 18:16	28.601	9/22/2004 18:16	20.101	9/23/2004 18:16	30	9/24/2004 18:16	47.201	9/25/2004 18:16	32.201	9/26/2004 18:16	40.6
9/21/2004 18:31	28	9/22/2004 18:31	17.701	9/23/2004 18:31	30	9/24/2004 18:31	53.1	9/25/2004 18:31	32.201	9/26/2004 18:31	37.201
9/21/2004 18:46	31	9/22/2004 18:46	18.201	9/23/2004 18:46	29.5	9/24/2004 18:46	61.6	9/25/2004 18:46	39.8	9/26/2004 18:46	37.201
9/21/2004 19:01	34.1	9/22/2004 19:01	22.201	9/23/2004 19:01	30.601	9/24/2004 19:01	55.3	9/25/2004 19:01	44.6	9/26/2004 19:01	37.201
9/21/2004 19:16	34.1	9/22/2004 19:16	14.3	9/23/2004 19:16	27.4	9/24/2004 19:16	55.3	9/25/2004 19:16	45.701	9/26/2004 19:16	37.201
9/21/2004 19:31	34.1	9/22/2004 19:31	17.3	9/23/2004 19:31	27.101	9/24/2004 19:31	56.3	9/25/2004 19:31	46.8	9/26/2004 19:31	37.201
9/21/2004 19:46	34.1	9/22/2004 19:46	16.701	9/23/2004 19:46	25.3	9/24/2004 19:46	49.6	9/25/2004 19:46	46.3	9/26/2004 19:46	47.3
9/21/2004 20:01	39.8	9/22/2004 20:01	20.101	9/23/2004 20:01	21.701	9/24/2004 20:01	54.1	9/25/2004 20:01	54.701	9/26/2004 20:01	47.201
9/21/2004 20:16	32.701	9/22/2004 20:16	20.8	9/23/2004 20:16	21.601	9/24/2004 20:16	57.901	9/25/2004 20:16	57.6	9/26/2004 20:16	47.901
9/21/2004 20:31	36.6	9/22/2004 20:31	14.9	9/23/2004 20:31	22.701	9/24/2004 20:31	56.5	9/25/2004 20:31	68.601	9/26/2004 20:31	54.6
9/21/2004 20:46	37.901	9/22/2004 20:46	16.8	9/23/2004 20:46	26.5	9/24/2004 20:46	62.1	9/25/2004 20:46	72.501	9/26/2004 20:46	48.5
9/21/2004 21:01	30	9/22/2004 21:01	19.9	9/23/2004 21:01	23.5	9/24/2004 21:01	66.501	9/25/2004 21:01	77.401	9/26/2004 21:01	52
9/21/2004 21:16	30	9/22/2004 21:16	22.3	9/23/2004 21:16	26.101	9/24/2004 21:16	67.801	9/25/2004 21:16	83.101	9/26/2004 21:16	51.401
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9/21/2004 21:46	36.5	9/22/2004 21:46	24.201	9/23/2004 21:46	27.701	9/24/2004 21:46	76.701	9/25/2004 21:46	83.601	9/26/2004 21:46	55
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9/21/2004 22:16	36.5	9/22/2004 22:16	18.9	9/23/2004 22:16	26.9	9/24/2004 22:16	67.201	9/25/2004 22:16	83.801	9/26/2004 22:16	49.1
9/21/2004 22:31	36.5	9/22/2004 22:31	18.9	9/23/2004 22:31	26.3	9/24/2004 22:31	69.401	9/25/2004 22:31	84.201	9/26/2004 22:31	47.3
9/21/2004 22:46	35.901	9/22/2004 22:46	17.701	9/23/2004 22:46	27.4	9/24/2004 22:46	77.501	9/25/2004 22:46	93.801	9/26/2004 22:46	48.201
9/21/2004 23:01	37	9/22/2004 23:01	21.4	9/23/2004 23:01	29.4	9/24/2004 23:01	67.501	9/25/2004 23:01	97.101	9/26/2004 23:01	50.8
9/21/2004 23:16	33.6	9/22/2004 23:16	19.5	9/23/2004 23:16	32.8	9/24/2004 23:16	70.201	9/25/2004 23:16	93.601	9/26/2004 23:16	49.901
9/21/2004 23:31	30.5	9/22/2004 23:31	18.4	9/23/2004 23:31	35	9/24/2004 23:31	67.401	9/25/2004 23:31	97.001	9/26/2004 23:31	52.401
9/21/2004 23:46	30.5	9/22/2004 23:46	21.701	9/23/2004 23:46	31.201	9/24/2004 23:46	78.101	9/25/2004 23:46	104.701	9/26/2004 23:46	51.5
9/22/2004 0:01	29.201	9/23/2004 0:01	22	9/24/2004 0:01	31.601	9/25/2004 0:01	78.101	9/26/2004 0:01	98.801	9/27/2004 0:01	49.901
9/22/2004 0:16	32	9/23/2004 0:16	20.201	9/24/2004 0:16	45.701	9/25/2004 0:16	-1000000	9/26/2004 0:16	96.201	9/27/2004 0:16	51.6
9/22/2004 0:31	31.101	9/23/2004 0:31	21.8	9/24/2004 0:31	31.5	9/25/2004 0:31	-1000000	9/26/2004 0:31	100.301	9/27/2004 0:31	49.201
9/22/2004 0:46	31	9/23/2004 0:46	21.9	9/24/2004 0:46	32.201	9/25/2004 0:46	-1000000	9/26/2004 0:46	98.601	9/27/2004 0:46	45.401
9/22/2004 1:01	31.8	9/23/2004 1:01	27.8	9/24/2004 1:01	35.901	9/25/2004 1:01	-1000000	9/26/2004 1:01	94.601	9/27/2004 1:01	48.201
9/22/2004 1:16	34.6	9/23/2004 1:16	20.8	9/24/2004 1:16	33.1	9/25/2004 1:16	84.901	9/26/2004 1:16	102.401	9/27/2004 1:16	51.1
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9/22/2004 1:46	34.701	9/23/2004 1:46	22.701	9/24/2004 1:46	29.8	9/25/2004 1:46	87.501	9/26/2004 1:46	98.301	9/27/2004 1:46	48.701
9/22/2004 2:01	36.901	9/23/2004 2:01	30.701	9/24/2004 2:01	26	9/25/2004 2:01	90.201	9/26/2004 2:01	102.901	9/27/2004 2:01	50.201
9/22/2004 2:16	31.3	9/23/2004 2:16	22.5	9/24/2004 2:16	24.4	9/25/2004 2:16	88.201	9/26/2004 2:16	103.401	9/27/2004 2:16	51.901
9/22/2004 2:31	31.9	9/23/2004 2:31	19.5	9/24/2004 2:31	27.101	9/25/2004 2:31	93.301	9/26/2004 2:31	104.101	9/27/2004 2:31	57.201
9/22/2004 2:46	30	9/23/2004 2:46	19.5	9/24/2004 2:46	28.601	9/25/2004 2:46	88.501	9/26/2004 2:46	111.101	9/27/2004 2:46	55.8
9/22/2004 3:01	30.3	9/23/2004 3:01	22.9	9/24/2004 3:01	27.701	9/25/2004 3:01	92.401	9/26/2004 3:01	118.001	9/27/2004 3:01	58.5
9/22/2004 3:16	31.4	9/23/2004 3:16	25.9	9/24/2004 3:16	29.701	9/25/2004 3:16	94.101	9/26/2004 3:16	107.501	9/27/2004 3:16	55.8
9/22/2004 3:31	37.5	9/23/2004 3:31	26.101	9/24/2004 3:31	28.3	9/25/2004 3:31	99.001	9/26/2004 3:31	125.601	9/27/2004 3:31	60.3
9/22/2004 3:46	36	9/23/2004 3:46	26.4	9/24/2004 3:46	31.9	9/25/2004 3:46	92.401	9/26/2004 3:46	121.101	9/27/2004 3:46	57.3
9/22/2004 4:01	34.6	9/23/2004 4:01	23.8	9/24/2004 4:01	33.6	9/25/2004 4:01	92.401	9/26/2004 4:01	122.201	9/27/2004 4:01	55.901
9/22/2004 4:16	33.701	9/23/2004 4:16	23.8	9/24/2004 4:16	31.5	9/25/2004 4:16	96.801	9/26/2004 4:16	132.201	9/27/2004 4:16	58.201
9/22/2004 4:31	34.5	9/23/2004 4:31	24.9	9/24/2004 4:31	31	9/25/2004 4:31	108.501	9/26/2004 4:31	123.601	9/27/2004 4:31	59
9/22/2004 4:46	32	9/23/2004 4:46	31.601	9/24/2004 4:46	30.9	9/25/2004 4:46	97.101	9/26/2004 4:46	124.001	9/27/2004 4:46	62.901
9/22/2004 5:01	45.201	9/23/2004 5:01	33.3	9/24/2004 5:01	30.8	9/25/2004 5:01	97.901	9/26/2004 5:01	134.201	9/27/2004 5:01	64.201
9/22/2004 5:16	39.3	9/23/2004 5:16	26.701	9/24/2004 5:16	34.3	9/25/2004 5:16	87.001	9/26/2004 5:16	120.101	9/27/2004 5:16	60.201
9/22/2004 5:31	32.201	9/23/2004 5:31	20.3	9/24/2004 5:31	33.5	9/25/2004 5:31	96.801	9/26/2004 5:31	125.101	9/27/2004 5:31	60.3
9/22/2004 5:46	30.3	9/23/2004 5:46	23.5	9/24/2004 5:46	30.9	9/25/2004 5:46	85.201	9/26/2004 5:46	114.101	9/27/2004 5:46	65.001
9/22/2004 6:01	30.3	9/23/2004 6:01	24.4	9/24/2004 6:01	33.3	9/25/2004 6:01	82.101	9/26/2004 6:01	125.801	9/27/2004 6:01	66.401
9/22/2004 6:16	30.3	9/23/2004 6:16	22.3	9/24/2004 6:16	32.8	9/25/2004 6:16	91.501	9/26/2004 6:16	130.601	9/27/2004 6:16	64.001
9/22/2004 6:31	30.4	9/23/2004 6:31	24.201	9/24/2004 6:31	34	9/25/2004 6:31	91.501	9/26/2004 6:31	124.901	9/27/2004 6:31	69.801
9/22/2004 6:46	34.5	9/23/2004 6:46	36.5	9/24/2004 6:46	37.1	9/25/2004 6:46	80.201	9/26/2004 6:46	160.9	9/27/2004 6:46	71.001
9/22/2004 7:01	28	9/23/2004 7:01	32.201	9/24/2004 7:01	35.5	9/25/2004 7:01	80.201	9/26/2004 7:01	141.501	9/27/2004 7:01	77.801
9/22/2004 7:16	29.4	9/23/2004 7:16	26.3	9/24/2004 7:16	35	9/25/2004 7:16	74.801	9/26/2004 7:16	146.501	9/27/2004 7:16	70.501
9/22/2004 7:31	34.5	9/23/2004 7:31	26.3	9/24/2004 7:31	37	9/25/2004 7:31	69.101	9/26/2004 7:31	167.301	9/27/2004 7:31	66.801
9/22/2004 7:46	28.9	9/23/2004 7:46	26.3	9/24/2004 7:46	37.3	9/25/2004 7:46	59.401	9/26/2004 7:46	130.501	9/27/2004 7:46	43.201
9/22/2004 8:01	36.1	9/23/2004 8:01	23.4	9/24/2004 8:01	34.8	9/25/2004 8:01	49.8	9/26/2004 8:01	102.701	9/27/2004 8:01	53.1
9/22/2004 8:16	36.1	9/23/2004 8:16	29.601	9/24/2004 8:16	34.3	9/25/2004 8:16	48.3	9/26/2004 8:16	118.701	9/27/2004 8:16	57.1
9/22/2004 8:31	32.201	9/23/2004 8:31	22.3	9/24/2004 8:31	34.3	9/25/2004 8:31	48.3	9/26/2004 8:31	105.801	9/27/2004 8:31	59.401
9/22/2004 8:46	30.8	9/23/2004 8:46	26.8	9/24/2004 8:46	34.3	9/25/2004 8:46	48.3	9/26/2004 8:46	103.001	9/27/2004 8:46	59.401
9/22/2004 9:01	31.3	9/23/2004 9:01	26.4	9/24/2004 9:01	31.5	9/25/2004 9:01	48.3	9/26/2004 9:01	108.801	9/27/2004 9:01	58.8
9/22/2004 9:16	31.3	9/23/2004 9:16	25.601	9/24/2004 9:16	32.6	9/25/2004 9:16	41.201	9/26/2004 9:16	119.201	9/27/2004 9:16	54.3
9/22/2004 9:31	31.3	9/23/2004 9:31	21.8	9/24/2004 9:31	31.3	9/25/2004 9:31	41.201	9/26/2004 9:31	109.201	9/27/2004 9:31	48.1
9/22/2004 9:46	27	9/23/2004 9:46	19.101	9/24/2004 9:46	34.8	9/25/2004 9:46	36.6	9/26/2004 9:46	105.501	9/27/2004 9:46	51.3
9/22/2004 10:01	26.201	9/23/2004 10:01	29.8	9/24/2004 10:01	31.5	9/25/2004 10:01	30.3	9/26/2004 10:01	96.101	9/27/2004 10:01	38.8
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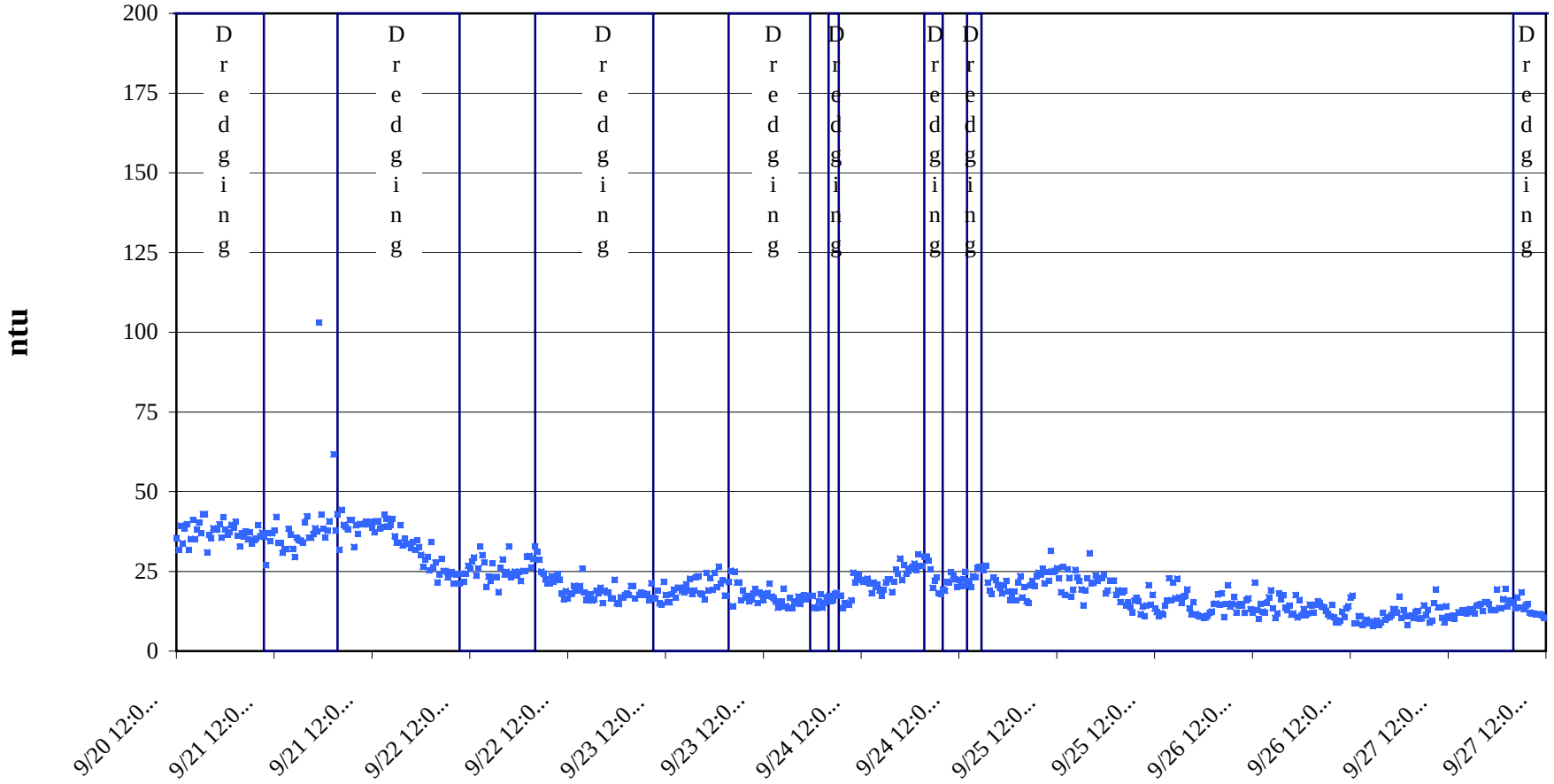
Far Downstream Turbidity - Meter 905



This data is presented in raw unchecked form and as such Foth & Van Dyke provides no warranty, expressed or implied, as to the accuracy, reliablility or completeness of furnished data. Any use of this data is at the sole risk of the user.

Far Downstream Turbidity - Meter 905

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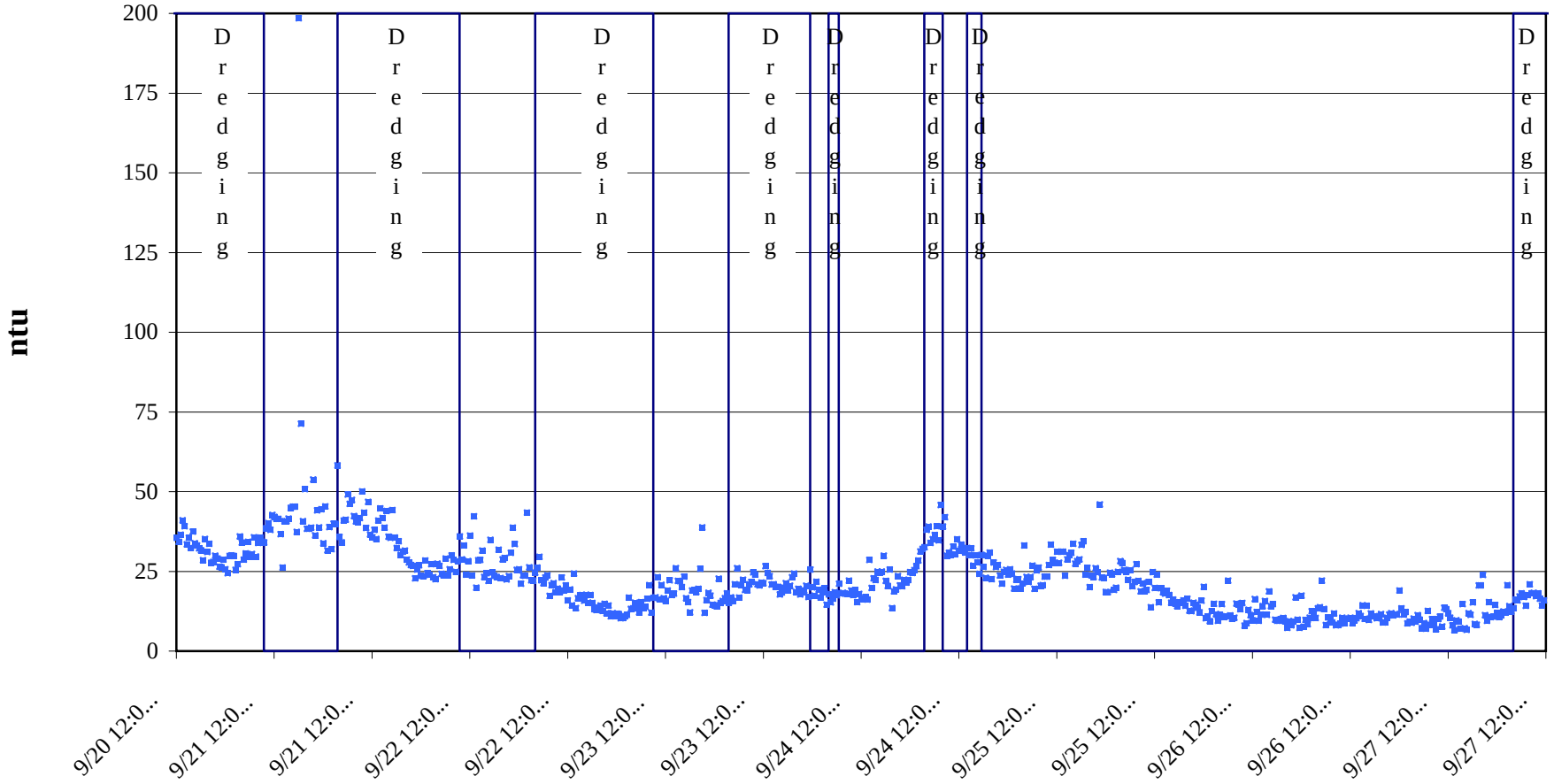
9/21/2004 11:16	40.701	9/22/2004 11:16	18	9/23/2004 11:16	15.101	9/24/2004 11:16	23.601	9/25/2004 11:16	20.701	9/26/2004 11:16	10.7
9/21/2004 11:31	39.701	9/22/2004 11:31	16.3	9/23/2004 11:31	18.4	9/24/2004 11:31	22.5	9/25/2004 11:31	14.601	9/26/2004 11:31	13.3
9/21/2004 11:46	40.6	9/22/2004 11:46	18.8	9/23/2004 11:46	17.8	9/24/2004 11:46	20.201	9/25/2004 11:46	17.701	9/26/2004 11:46	14.101

Upstream Turbidity - Meter 912



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38	9/22/2004 12:16	19.4	9/23/2004 12:16	26.601	9/24/2004 12:16	33.401	9/25/2004 12:16	24	9/26/2004 12:16	8.8
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44	9/22/2004 13:46	17.601	9/23/2004 13:46	20.201	9/24/2004 13:46	26.8	9/25/2004 13:46	17.601	9/26/2004 13:46	10.101
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26.9	9/22/2004 17:46	11	9/23/2004 17:46	25.601	9/24/2004 17:46	25.5	9/25/2004 17:46	15.8	9/26/2004 17:46	11.5
23.601	9/22/2004 18:01	11.7	9/23/2004 18:01	20	9/24/2004 18:01	24	9/25/2004 18:01	20.201	9/26/2004 18:01	19
23.5	9/22/2004 18:16	11.601	9/23/2004 18:16	17.4	9/24/2004 18:16	25.701	9/25/2004 18:16	10.3	9/26/2004 18:16	13.4
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22.601	9/22/2004 19:46	13.2	9/23/2004 19:46	14.601	9/24/2004 19:46	21.3	9/25/2004 19:46	9.5	9/26/2004 19:46	10.2
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23.8	9/22/2004 20:46	12.2	9/23/2004 20:46	18.5	9/24/2004 20:46	23.3	9/25/2004 20:46	10.9	9/26/2004 20:46	7.201
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23.701	9/23/2004 0:16	19	9/24/2004 0:16	16.601	9/25/2004 0:16	27.701	9/26/2004 0:16	16.3	9/27/2004 0:16	10.5
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24.701	9/23/2004 2:46	15.4	9/24/2004 2:46	29.9	9/25/2004 2:46	28.8	9/26/2004 2:46	9.9	9/27/2004 2:46	11.4
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22.101	9/23/2004 7:46	15.2	9/24/2004 7:46	32.6	9/25/2004 7:46	28.201	9/26/2004 7:46	10.4	9/27/2004 7:46	12.4
24.601	9/23/2004 8:01	16.9	9/24/2004 8:01	38	9/25/2004 8:01	27.601	9/26/2004 8:01	13.4	9/27/2004 8:01	13.5
26.201	9/23/2004 8:16	15.7	9/24/2004 8:16	39.1	9/25/2004 8:16	25.5	9/26/2004 8:16	13.8	9/27/2004 8:16	16.201
29.601	9/23/2004 8:31	21	9/24/2004 8:31	33.901	9/25/2004 8:31	24.9	9/26/2004 8:31	22.101	9/27/2004 8:31	15.9
22.201	9/23/2004 8:46	26	9/24/2004 8:46	35.1	9/25/2004 8:46	22.4	9/26/2004 8:46	13.2	9/27/2004 8:46	17.101
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18.601	9/23/2004 11:01	24	9/24/2004 11:01	30.201	9/25/2004 11:01	19.201	9/26/2004 11:01	10.5	9/27/2004 11:01	18.101
23.101	9/23/2004 11:16	21	9/24/2004 11:16	32.8	9/25/2004 11:16	21.701	9/26/2004 11:16	8.8	9/27/2004 11:16	16.4
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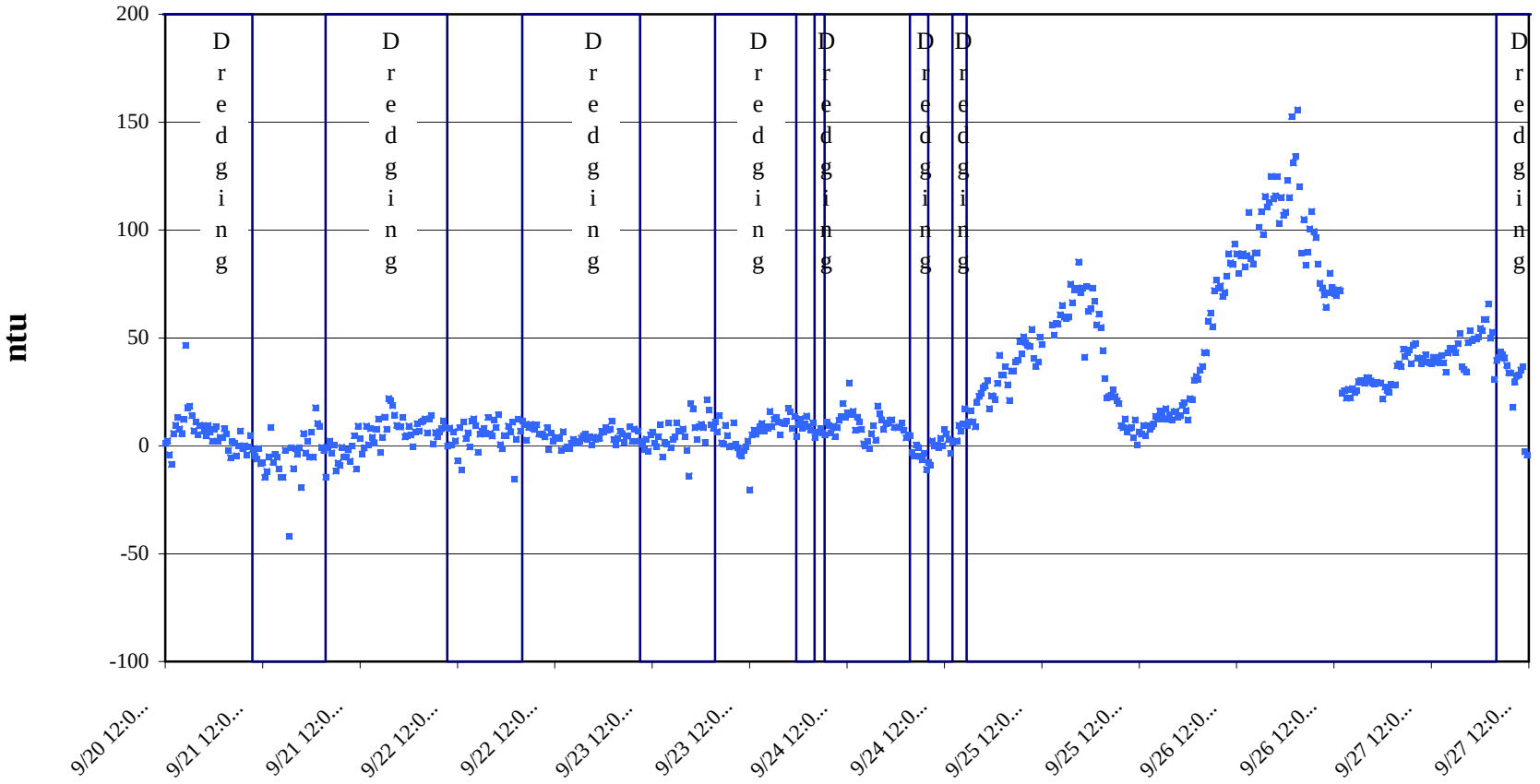
20.601	9/23/2004 11:46	21.5	9/24/2004 11:46	35.1	9/25/2004 11:46	24.8	9/26/2004 11:46	10.2	9/27/2004 11:46	15.9
									9/27/2004 12:01	16.3

Turbidity
Downstream/Upstream Difference
(Downstream Minus Upstream)

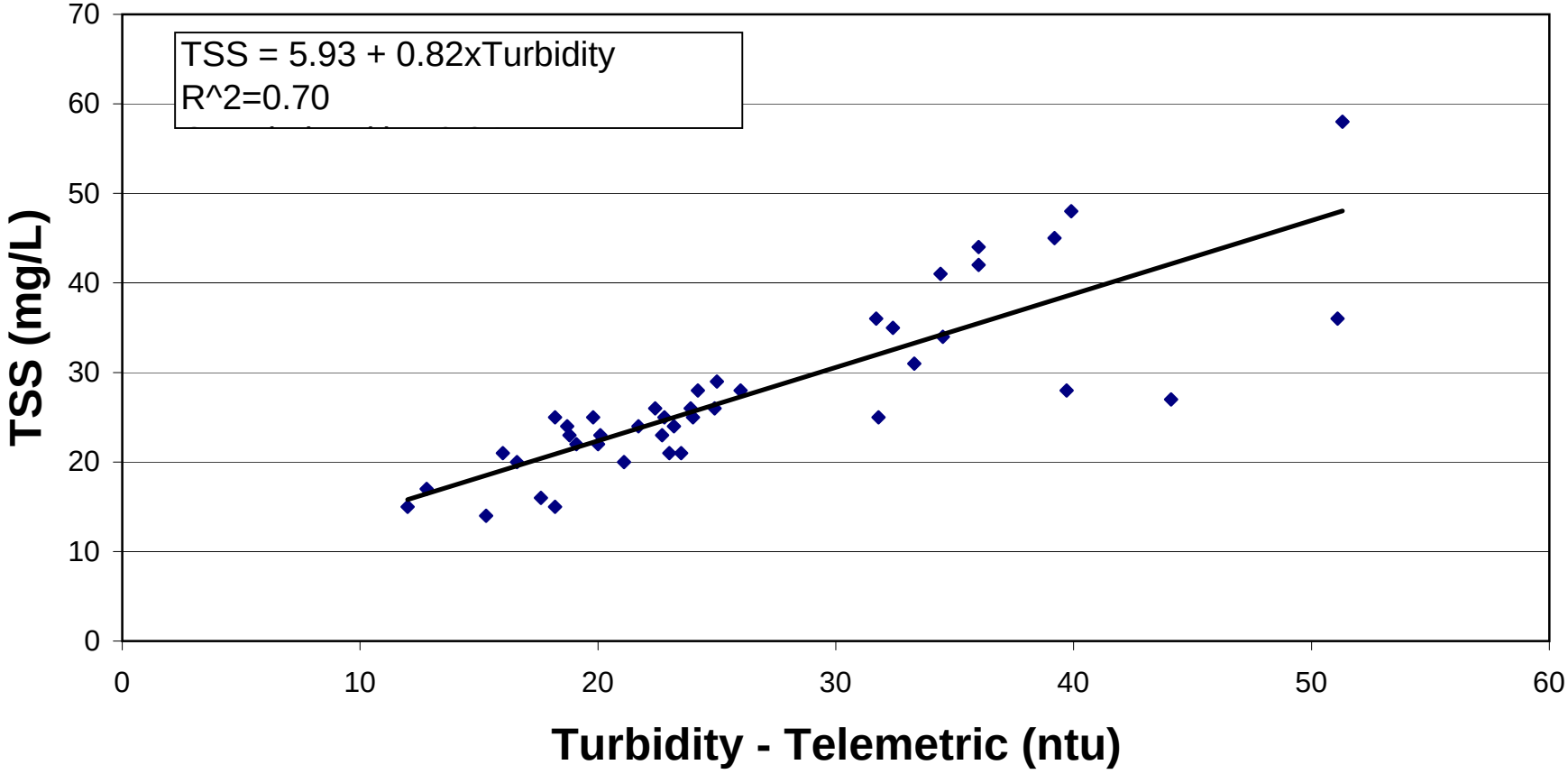


Attachment 4

GW Partners
Lower Fox River - OU-1
04G007
TSS and Field Turbidity - Draft and Preliminary

Date	Time	Telemetric Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Telemetric Turbidity	Sonde Location	Comments: Wind Conditions	Comments: Sample ID	Comments: Other
8/30/2004	13:47	19.8	25	5.2	912	Calm (0-5 mph)	1 RA 04 DEWT SW 1 - 912	Location 1 in SQL Database
8/30/2004	13:54	19.1	22	2.9	902	Calm (0-5 mph)	1 RA 04 DEWT SW 2 - 902	Location 1 in SQL Database
8/30/2004	14:01	20.1	23	2.9	905	Calm (0-5 mph)	1 RA 04 DEWT SW 3 - 905	Location 1 in SQL Database
8/31/2004	19:32	12.0	15	3	912	Calm (0-5 mph)	1 RA 04 DEWT SW 4 - 912	Location 1 in SQL Database
8/31/2004	19:40	18.2	25	6.8	902	Calm (0-5 mph)	1 RA 04 DEWT SW 5 - 902	Location 1 in SQL Database
			24				1 RA 04 DEWT SW 5Dup - 902	
8/31/2004	19:47	12.8	17	4.2	905	Calm (0-5 mph)	1 RA 04 DEWT SW 6 - 905	Location 1 in SQL Database
			<1.0				1 RA 04 DEWT SW 7RINSE - 905	
9/1/2004	12:56	24.2	28	3.8	912	Calm (0-5 mph)	1 RA 04 DEWT SW 8 - 912	Location 1 in SQL Database
9/1/2004	13:08	51.1	36	-15.1	902	Calm (0-5 mph)	1 RA 04 DEWT SW 9 - 902	Location 1 in SQL Database
9/1/2004	13:15	22.8	25	2.2	905	Calm (0-5 mph)	1 RA 04 DEWT SW 10 - 905	Location 1 in SQL Database
9/2/2004	12:16	22.4	26	3.6	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 11 - 912	Location 1 in SQL Database
9/2/2004	12:31	34.4	41	6.6	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 12 - 902	Location 1 in SQL Database
9/2/2004	12:44	33.3	31	-2.3	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 13 - 905	Location 1 in SQL Database
9/3/2004	11:55	21.1	20	-1.1	912	Calm (0-10 mph)	1 RA 04 DEWT SW 14 - 912	Location 1 in SQL Database
9/3/2004	12:05	39.7	28	-11.7	902	Calm (0-10 mph)	1 RA 04 DEWT SW 15 - 902	Location 1 in SQL Database
			28				1 RA 04 DEWT SW 15Dup - 902	
9/3/2004	12:13	16.6	20	3.4	905	Calm (0-10 mph)	1 RA 04 DEWT SW 16 - 905	Location 1 in SQL Database
			<1.0				1 RA 04 DEWT SW 16RINSE - 905	
9/7/2004	7:22	20		NA	902	Calm (0-10 mph)	NA	Location 1 in SQL Database
9/7/2004	7:26	20.7		NA	905	Calm (0-10 mph)	NA	Location 1 in SQL Database
9/7/2004	7:51	15.5		NA	912	Calm (0-10 mph)	NA	Location 1 in SQL Database
9/7/2004	11:52	18.7	24	5.3	912	Calm (0-10 mph)	1 RA 04 DEWT SW 18 - 912	Location 1 in SQL Database
9/7/2004	12:07	25	29	4	902	Calm (0-10 mph)	1 RA 04 DEWT SW 19 - 902	Location 1 in SQL Database
9/7/2004	12:15	22.7	23	0.3	905	Calm (0-10 mph)	1 RA 04 DEWT SW 20 - 905	Location 1 in SQL Database
9/8/2004	11:39	51.3	58	6.7	912	Windy (15-20 mph)	1 RA 04 DEWT SW 21 - 912	Location 1 in SQL Database
9/8/2004	11:50	36	42	6	902	Windy (15-20 mph)	1 RA 04 DEWT SW 22 - 902	Location 1 in SQL Database
9/8/2004	11:56	39.9	48	8.1	905	Windy (15-20 mph)	1 RA 04 DEWT SW 23 - 905	Location 1 in SQL Database
9/9/2004	11:11	31.8	25	-6.8	912	Calm (0-5 mph)	1 RA 04 DEWT SW 24 - 912	Location 2 in SQL Database
9/9/2004	11:20	24	25	1	902	Calm (0-5 mph)	1 RA 04 DEWT SW 25 - 902	Location 2 in SQL Database
9/9/2004	11:35	23.2	24	0.8	905	Calm (0-5 mph)	1 RA 04 DEWT SW 26 - 905	Location 2 in SQL Database
9/10/2004	9:36	23.5	21	-2.5	912	Windy (10-20 mph)	1 RA 04 DEWT SW 27 - 912	Location 3 in SQL Database
9/10/2004	9:48	1100	22	NA	902	Windy (10-20 mph)	1 RA 04 DEWT SW 28 - 902	Location 3, Telemetric reading appears unreal
			23				1 RA 04 DEWT SW 28Dup - 902	
9/10/2004	10:00	657	24	NA	905	Windy (10-20 mph)	1 RA 04 DEWT SW 29 - 905	Location 3, Telemetric reading appears unreal
			<1.0				1 RA 04 DEWT SW 30RINSE - 905	
9/11/2004	9:43	23	21	-2	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 31 - 912	Location 4 in SQL Database
9/11/2004	9:53	21.7	24	2.3	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 32 - 902	Location 4 in SQL Database
9/11/2004	10:01	44.1	27	-17.1	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 33 - 905	Location 4 in SQL Database
9/14/2004	10:43	18.8	23	4.2	912	Windy (10-20 mph)	1 RA 04 000A SW 34 - 912	Location 5 in SQL Database
9/14/2004	10:52	20	22	2	902	Windy (10-20 mph)	1 RA 04 000A SW 35 - 902	Location 5 in SQL Database
9/14/2004	11:01	16	21	5	905	Windy (10-20 mph)	1 RA 04 000A SW 36 - 905	Location 5 in SQL Database
9/15/2004	11:16	36.9	<20	NA	912	Windy (15-25 mph)	1 RA 04 000A SW 37 - 912	Location 6 in SQL Database
9/15/2004	11:31	23.9	26	2.1	902	Windy (15-25 mph)	1 RA 04 000A SW 38 - 902	Location 6 in SQL Database
9/15/2004	11:45	24.9	26	1.1	905	Windy (15-25 mph)	1 RA 04 000A SW 39 - 905	Location 6 in SQL Database
9/16/2004	9:30	36	44	8	912	Breezy (5-15 mph)	1 RA 04 000A SW 40 - 912	Location 6 in SQL Database
9/16/2004	9:55	26	28	2	902	Breezy (5-15 mph)	1 RA 04 000A SW 41 - 902	Location 6 in SQL Database
			27				1 RA 04 000A SW 41Dup - 902	
9/16/2004	10:03	34.5	34	-0.5	905	Breezy (5-15 mph)	1 RA 04 000A SW 42 - 905	Location 6 in SQL Database
			<1.0				1 RA 04 000A SW 43RINSE - 905	
9/17/2004	10:32	18.2	15	-3.2	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 44 - 912	Location 6 in SQL Database
9/17/2004	10:58	17.6	16	-1.6	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 45 - 902	Location 6 in SQL Database
9/17/2004	11:08	15.3	14	-1.3	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 46 - 905	Location 6 in SQL Database
9/20/2004	12:57	39.2	45	5.8	912	Breezy (5-15 mph)	1 RA 04 000A SW 47 - 912	Location 6 in SQL Database
9/20/2004	12:31	32.4	35	2.6	902	Breezy (5-15 mph)	1 RA 04 000A SW 48 - 902	Location 6 in SQL Database
			35				1 RA 04 000A SW 48Dup - 902	
9/20/2004	12:22	31.7	36	4.3	905	Breezy (5-15 mph)	1 RA 04 000A SW 49 - 905	Location 6 in SQL Database
			1.2				1 RA 04 000A SW 50RINSE - 905	
9/21/2004	10:08	39.4		-39.4	905	Breezy (5-15 mph)	1 RA 04 000A SW 51 - 905	Location 7 in SQL Database
9/21/2004	10:21	35.4		-35.4	902	Breezy (5-15 mph)	1 RA 04 000A SW 52 - 902	Location 7 in SQL Database
9/21/2004	10:35	41.7		-41.7	912	Breezy (5-15 mph)	1 RA 04 000A SW 53 - 912	Location 7 in SQL Database
9/22/2004	10:13	21.8		-21.8	905	Calm (0-5 mph)	1 RA 04 000A SW 54 - 905	Location 7 in SQL Database
9/22/2004	10:23	21.3		-21.3	902	Calm (0-5 mph)	1 RA 04 000A SW 55 - 902	Location 7 in SQL Database
9/22/2004	10:38	18.5		-18.5	912	Calm (0-5 mph)	1 RA 04 000A SW 56 - 912	Location 7 in SQL Database
9/23/2004	11:11	15.1		-15.1	905	Breezy (5-15 mph)	1 RA 04 000A SW 57 - 905	Location 7 in SQL Database
9/23/2004	11:23	31.7		-31.7	902	Breezy (5-15 mph)	1 RA 04 000A SW 58 - 902	Location 7 in SQL Database
9/23/2004	12:17	26.6		-26.6	912	Breezy (5-15 mph)	1 RA 04 000A SW 59 - 912	Location 7 in SQL Database
9/24/2004	9:35	18.2		-18.2	905	Calm (0-5 mph)	1 RA 04 000A SW 61 - 905	Location 8 in SQL Database
9/24/2004	9:44	34.8		-34.8	902	Calm (0-5 mph)	1 RA 04 000A SW 62 - 902	Location 8 in SQL Database
							1 RA 04 000A SW 62Dup - 902	
9/24/2004	10:02	39.1		-39.1	912	Calm (0-5 mph)	1 RA 04 000A SW 63 - 912	Location 8 in SQL Database
							1 RA 04 000A SW 63RINSE - 912	
9/27/2004	11:10	11.6		-11.6	905	Calm (0-5 mph)	1 RA 04 000A SW 64 - 905	Location 8 in SQL Database
9/27/2004	11:21	53.1		-53.1	902	Calm (0-5 mph)	1 RA 04 000A SW 65 - 902	Location 8 in SQL Database
9/27/2004	11:36	14.3		-14.3	912	Calm (0-5 mph)	1 RA 04 000A SW 66 - 912	Location 8 in SQL Database
9/27/2004	11:46	11.6		-11.6	902	Calm (0-5 mph)	NA	Location 8 in SQL Database
9/27/2004	13:01	17.2		-17.2	902	Calm (0-5 mph)	NA	Location 8 in SQL Database
9/28/2004	11:31	33.9		-33.9	905	Windy (15-20 mph)	1 RA 04 000A SW 67 - 905	Location 8 in SQL Database
9/28/2004	11:38	38.7		-38.7	902	Windy (15-20 mph)	1 RA 04 000A SW 68 - 902	Location 8 in SQL Database
							1 RA 04 000A SW 68Dup - 902	
9/28/2004	11:48	33.4		-33.4	912	Windy (15-20 mph)	1 RA 04 000A SW 69 - 912	Location 8 in SQL Database
							1 RA 04 000A SW 70RINSE - 912	
9/29/2004	11:38	17.3		-17.3	905	Calm (0-5 mph)	1 RA 04 000A SW 71 - 905	Location 8 in SQL Database
9/29/2004	11:46	19.3		-19.3	902	Calm (0-5 mph)	1 RA 04 000A SW 72 - 902	Location 8 in SQL Database
9/29/2004	12:22	14.2		-14.2	912	Calm (0-5 mph)	1 RA 04 000A SW 73 - 912	Location 8 in SQL Database
9/29/2004	12:31	14.3		-14.3	902	Calm (0-5 mph)	NA	Location 8 in SQL Database
9/30/2004	10:20	24.6		-24.6	905	Calm (0-5 mph)	1 RA 04 000A SW 74 - 905	Location 8 in SQL Database
9/30/2004	10:30	18.6		-18.6	902	Calm (0-5 mph)	1 RA 04 000A SW 75 - 902	Location 8 in SQL Database
9/30/2004	10:50	11.3		-11.3	912	Calm (0-5 mph)	1 RA 04 000A SW 76 - 912	Location 8 in SQL Database

TSS/Turbidity Correlation
Data presented are Draft and Preliminary



Note: Includes data collected 8/30/04 - 9/20/04

J:\scopes\04G007\DataManagement\Turbidity_TSS_Corr.xls

Attachment 5

GW Partners
Lower Fox River - OU-1
04G007

Effluent Results - Draft and Preliminary

Date	Sample ID	TSS (mg/L)	BOD (mg/L)	Daily Flow (million gallons)	Ammonia Nitrogen (mg/L)	Total PCBs (ug/L)
9/3/04	IRA04 DEWT EF1	21			<0.32	<0.26
9/7/04	IRA04 DEWT EF2	<10			0.67	
9/9/04	IRA04 DEWT EF3	19			3.1	
9/10/04	IRA04 DEWT EF4	24			4.5	
9/11/04	IRA04 DEWT EF5	<20			2.9	
9/13/04	IRA04 DEWT EF6	<20			4.9	
9/15/04	IRA04 DEWT EF7	87				
9/16/04	IRA04 DEWT EF8	40	16	0.8		
9/17/04	IRA04 DEWT EF9	33	12			
9/17/04 Dup.	IRA04 DEWT EF9 DUP	31				
9/20/04	IRA04 DEWT EF10	11	3.1	1.1		
Performance Expectation		5[a], 10[b]	10	1.2 - 1.7 (mgd)		< 0.1 - 0.5

[a] Monthly average

[b] Daily maximum

Data received by 9/28/04

Data presented are Draft and Preliminary.

These data have not undergone QA procedures and should not be viewed as final.

DRAFT
Foth & Van Dyke
Memorandum

October 6, 2004

TO: Ben Hung, WDNR
Gary Kincaid, WDNR
Jim Hahnenberg, EPA

CC: Bill Hartman, GW Partners
Amie Obermeier, GW Partners
Sherman LaViolette, CH2MHill
Mike Jury, CH2MHill
Tara Konkle, Foth & Van Dyke
Steve Laszewski, Foth & Van Dyke

FR: Jim Hutchison, Foth & Van Dyke

RE: OU1 2004 Environmental Monitoring Data – September 29 through October 4, 2004

Attached are monitoring data for the one week period beginning September 29, 2004 and ending October 4, 2004 for the environmental monitoring activities pursuant to the 2004 RA Work Plan, May, 2004 and subsequent addendum. If you have any questions or comments please contact Jim Hutchison at (920) 497 2500 or at jhutchison@foth.com. In addition to the weekly data summary, project data will be provided in a database format following completion of the 2004 RA work.

Data presented are draft and preliminary. These data have not undergone QA procedures and should not be viewed as final.

Air Monitoring Data:

Summary: Air sampling at the four meter locations was initiated on August 7, 2004. Sampling consisted of a 72 hour sampling event per week. Continuous sampling began on August 30, 2004. PCBs have not been detected to date.

Attachment: Attachment 1- Summary of Air Sampling Results Calculated to Date
Attachment 2- Monitor Location Sketch

Surface Water Data:

Summary: River turbidity meters began operation on August 20, 2004 monitoring river turbidity (NTUs) every 15 minutes at three locations. The meters are located upstream (meter 912), downstream (meter 902) and far downstream (meter 905) of dredging

activities. Generally the data show that the downstream turbidity has been well within acceptable limits of the upstream turbidity except for isolated incidents. **Please note the turbidity data graphs indicate dredging and no dredging times.**

Attachment: Attachment 3- Graphs and Tabulation of Turbidity Data for Upstream, Downstream, Far Downstream and Upstream/Downstream Difference Graph

Field Surface Water Data

Summary: Field data includes hand held turbidity measurements and TSS sampling taken at the turbidity monitoring stations. A TSS/ Turbidity Correlation between TSS and turbidity to date shows a correlation coefficient of 0.75.

Attachment: Attachment 4-TSS and Field Turbidity Data and TSS/Turbidity Correlation

Water Treatment Data:

Summary: The effluent water was tested for TSS, PCBs and Ammonia. BOD testing was initiated on September 16, 2004. Limited test data has been provided by the laboratory to date.

Attachment: Attachment 5- Effluent water results

Sediment Sample Verification:

Summary: Post dredging sediment samples have not been collected to date.

Attachment: None

Note: transmitted when available, as these data will be obtained less frequently then other project environmental data.

Sand Placement Verification:

Summary: Sand placement has not been initiated to date

Attachment: None

Note: transmitted when available, as these data will be obtained less frequently then other project environmental data.

Attachment 1

GW Partners, LLC

Lower Fox River Operable Unit 1

Summary of Air Sampling Results Calculated through September 24, 2004

All Results Reported in Total PCBs[1]

Dates	Sampling Round	Location ID	Sample ID	Laboratory Method[2]	Laboratory Reporting Limit (Total µg of PCBs)	Laboratory Results (Total µg of PCBs)[3]	Total Air Volume Sampled (Total m^3)[4]		Calculated PCB Conc'n ($\mu g/m^3$)[5]
8-30-04 to 9-2-04	5	GWP-1	PCB-01-5	EPA TO-4A	0.5	ND	1042.698	≤	0.0004795
8-30-04 to 9-2-04	5	GWP-2	PCB-02-5	EPA TO-4A	0.5	ND	1040.625	≤	0.0004805
8-30-04 to 9-2-04	5	GWP-3	PCB-03-5	EPA TO-4A	0.5	ND	1006.328	≤	0.0004969
8-30-04 to 9-2-04	5	GWP-4	PCB-04-5	EPA TO-4A	0.5	ND	1033.522	≤	0.0004838
9-2-04 to 9-5-04	6	GWP-1	PCB-01-6	EPA TO-4A	0.5	ND	1092.83	≤	0.0004575
9-2-04 to 9-5-04	6	GWP-2	PCB-02-6	EPA TO-4A	0.5	ND	1100.092	≤	0.0004545
9-2-04 to 9-5-04	6	GWP-3	PCB-03-6	EPA TO-4A	0.5	ND	1090.111	≤	0.0004587
9-2-04 to 9-5-04	6	GWP-4	PCB-04-6	EPA TO-4A	0.5	ND	1110.041	≤	0.0004504
9-5-04 to 9-8-04	7	GWP-1	PCB-01-7	EPA TO-4A	0.5	ND	1166.347	≤	0.0004287
9-5-04 to 9-8-04	7	GWP-2	PCB-02-7	EPA TO-4A	0.5	ND	1144.433	≤	0.0004369
9-5-04 to 9-8-04	7	GWP-3	PCB-03-7	EPA TO-4A	0.5	ND	697.249	≤	0.0007171
9-5-04 to 9-8-04	7	GWP-4	PCB-04-7	EPA TO-4A	0.5	ND	660.474	≤	0.0007570
9-8-04 to 9-11-04	8	GWP-1	PCB-01-8	EPA TO-4A	0.5	ND	1007.649	≤	0.0004962
9-8-04 to 9-11-04	8	GWP-2	PCB-02-8	EPA TO-4A	0.5	ND	1010.031	≤	0.0004950
9-8-04 to 9-11-04	8	GWP-3	PCB-03-8	EPA TO-4A	0.5	ND	991.44	≤	0.0005043
9-8-04 to 9-11-04	8	GWP-4	PCB-04-8	EPA TO-4A	0.5	ND	1015.837	≤	0.0004922
9-11-04 to 9-14-04	9	GWP-1	PCB-01-9	EPA TO-4A	0.5	ND	1082.083	≤	0.0004621
9-11-04 to 9-14-04	9	GWP-2	PCB-02-9	EPA TO-4A	0.5	ND	1070.055	≤	0.0004673
9-11-04 to 9-14-04	9	GWP-3	PCB-03-9	EPA TO-4A	0.5	ND	1053.157	≤	0.0004748
9-11-04 to 9-14-04	9	GWP-4	PCB-04-9	EPA TO-4A	0.5	ND	1066.833	≤	0.0004687
9-11-04 to 9-14-04	9	N/A	Field Blank 3	EPA TO-4A	0.5	ND	N/A		N/A

Notes:

1. The laboratory reports the results in terms of significant Aroclors. Included are Aroclors 1016, 1221, 1232, 1242, 1248, 1254 and 1260. This table reports total PCB Aroclors and calculates a total PCB ambient air concentration.

2. EPA Compendium Method TO-4A is for determination of pesticides and polychlorinated biphenyls in ambient air using high volume polyurethane foam (PUF) sampling followed by gas chromoatographic/multi-detector detection (GC/MD).

3. ND = "None Detected". Given the laboratory reporting limit is 0.5 ug/sample, the concentration is calculated based on this value and reported as less than this concentration.

4. During Sampling Round 7 from 9-5-04 to 9-8-04, the electric line was cut during excavation for the effluent line. As a result, power was lost for a period of time, causing less volume of air to be collected for the period at GWP-3 and GWP-4. PCBs were still not detected in the laboratory samples, and the reported concentration is a function of the volume of air collected during the period.

5. As a frame of reference, the airborne concentrations observed here could be compared to the airborne concentrations observed during the previous 56/57 Demonstration Project in 1999. During that study, concentrations collected within the property boundaries of the remediation area ranged from 0.0013 to 0.0216 $\mu g/m^3$ during dredging. Baseline concentrations, obtained prior to this same dredging project ranged from 0.0003 to 0.0016 ug/m^3.

GW Partners, LLC

Lower Fox River Operable Unit 1

Summary of Air Sampling Results Calculated through October 5, 2004

All Results Reported in Total PCBs[1]

Dates	Sampling Round	Location ID	Sample ID	Laboratory Method[2]	Laboratory Reporting Limit (Total µg of PCBs)	Laboratory Results (Total µg of PCBs)[3]	Total Air Volume Sampled (Total m^3)[4]		Calculated PCB Conc'n ($\mu g/m^3$)[5]
9-14-04 to 9-17-04	10	GWP-1	PCB-01-10	EPA TO-4A	0.5	ND	1161.873	≤	0.0004303
9-14-04 to 9-17-04	10	GWP-2	PCB-02-10	EPA TO-4A	0.5	ND	1181.028	≤	0.0004234
9-14-04 to 9-17-04	10	GWP-3	PCB-03-10	EPA TO-4A	0.5	ND	1146.977	≤	0.0004359
9-14-04 to 9-17-04	10	GWP-4	PCB-04-10	EPA TO-4A	0.5	ND	1181.06	≤	0.0004233
9-17-04 to 9-20-04	11	GWP-1	PCB-01-11	EPA TO-4A	0.5	ND	1071.741	≤	0.0004665
9-17-04 to 9-20-04	11	GWP-2	PCB-02-11	EPA TO-4A	0.5	ND	1067.272	≤	0.0004685
9-17-04 to 9-20-04	11	GWP-3	PCB-03-11	EPA TO-4A	0.5	ND	1040.623	≤	0.0004805
9-17-04 to 9-20-04	11	GWP-4	PCB-04-11	EPA TO-4A	0.5	ND	1065.212	≤	0.0004694
9-17-04 to 9-20-04	11	N/A	Field Blank 4	EPA TO-4A	0.5	ND	N/A		N/A
9-20-04 to 9-23-04	12	GWP-1	PCB-01-12	EPA TO-4A	0.5	ND	1047.714	≤	0.0004772
9-20-04 to 9-23-04	12	GWP-2	PCB-02-12	EPA TO-4A	0.5	ND	1048.024	≤	0.0004771
9-20-04 to 9-23-04	12	GWP-3	PCB-03-12	EPA TO-4A	0.5	ND	1021.814	≤	0.0004893
9-20-04 to 9-23-04	12	GWP-4	PCB-04-12	EPA TO-4A	0.5	ND	1051.326	≤	0.0004756

Notes:

1. The laboratory reports the results in terms of significant Aroclors. Included are Aroclors 1016, 1221, 1232, 1242, 1248, 1254 and 1260. This table reports total PCB Aroclors and calculates a total PCB ambient air concentration.

2. EPA Compendium Method TO-4A is for determination of pesticides and polychlorinated biphenyls in ambient air using high volume polyurethane foam (PUF) sampling followed by gas chromoatographic/multi-detector detection (GC/MD).

3. ND = "None Detected". Given the laboratory reporting limit is 0.5 ug/sample, the concentration is calculated based on this value and reported as less than this concentration.

4. As a frame of reference, the airborne concentrations observed here could be compared to the airborne concentrations observed during the previous 56/57 Demonstration Project in 1999. During that study, concentrations collected within the property boundaries of the remediation area ranged from 0.0013 to 0.0216 ug/m^3 during dredging. Baseline concentrations, obtained prior to this same dredging project ranged from 0.0003 to 0.0016 ug/m^3.

Attachment 2

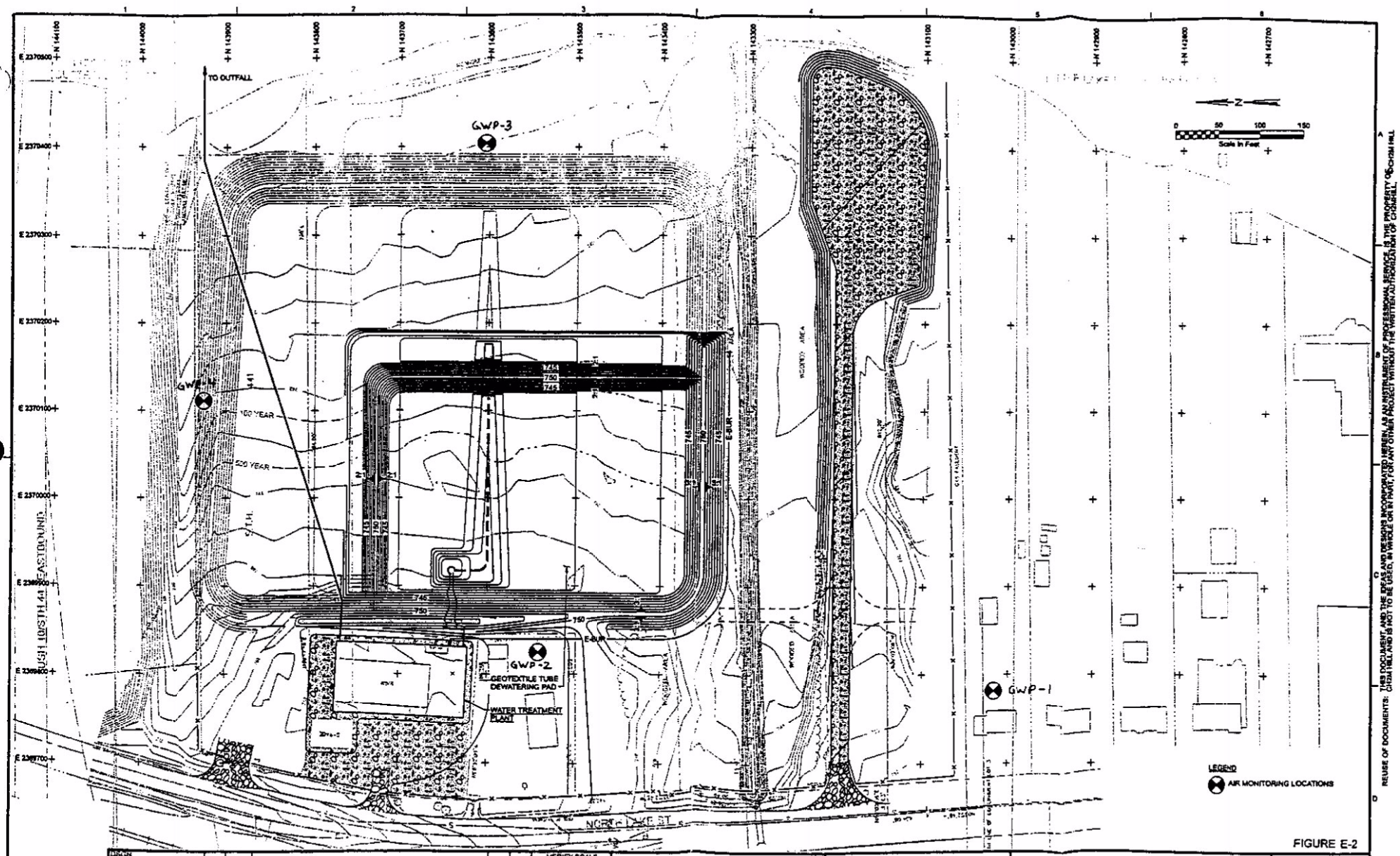


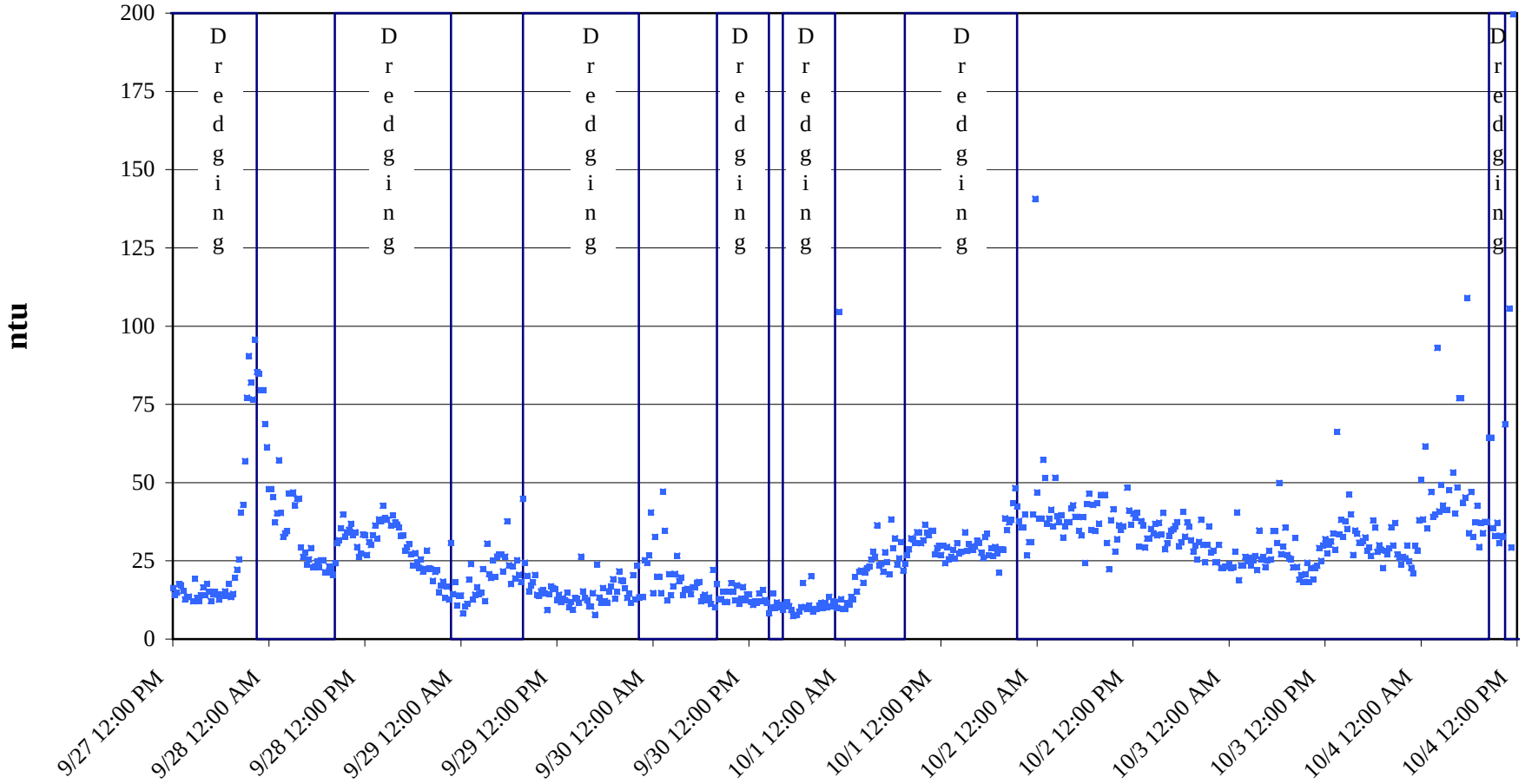
FIGURE E-2

DESIGN	C.M.LIETHEN				VERIFY SCALE	CH2MHILL	LOWER FOX RIVER (OU1) 2004 REMEDIAL ACTION TOWN OF MENASHA, WI G.W. PARTNERS, LLC	AIR MONITORING LOCATIONS	SHEET
DR	I.M.ZAEFKE				BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.				DWG C-1
CHK	D.J.PLOMB								DATE MAY 2004
APVD	S.D.LAVOLETTE	NO	DATE	REVISION	BY APVD				PROJ 315814.RA.01

FILENAME: tr5nc1416_183838.dgn PLOT DATE: 14-MAY-2004 PLOT TIME: 10:40:11

Attachment 3

Upstream Turbidity - Meter 912



This data is presented in raw unchecked form and as such Foth & Van Dyke provides no warranty, expressed or implied, as to the accuracy, reliablility or completeness of furnished data. Any use of this data is at the sole risk of the user.

Upstream Turbidity - Meter 912

9/27/2004 12:01	16.3	9/28/2004 12:01	33.201	9/29/2004 12:01	12.5	9/30/2004 12:01	14.3	10/1/2004 12:01	26.9	10/2/2004 12:01	40	10/3/2004 12:01	32
9/27/2004 12:16	14.101	9/28/2004 12:16	26.9	9/29/2004 12:16	14.2	9/30/2004 12:16	11.9	10/1/2004 12:16	29.8	10/2/2004 12:16	38.701	10/3/2004 12:16	27.4
9/27/2004 12:31	14.8	9/28/2004 12:31	31.101	9/29/2004 12:31	11.8	9/30/2004 12:31	10.9	10/1/2004 12:31	24.201	10/2/2004 12:31	40.401	10/3/2004 12:31	30.3
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9/28/2004 11:46	33.401	9/29/2004 11:46	16	9/30/2004 11:46	14.3	10/1/2004 11:46	29.8	10/2/2004 11:46	36.6	10/3/2004 11:46	29.9	10/4/2004 11:46	1068.5
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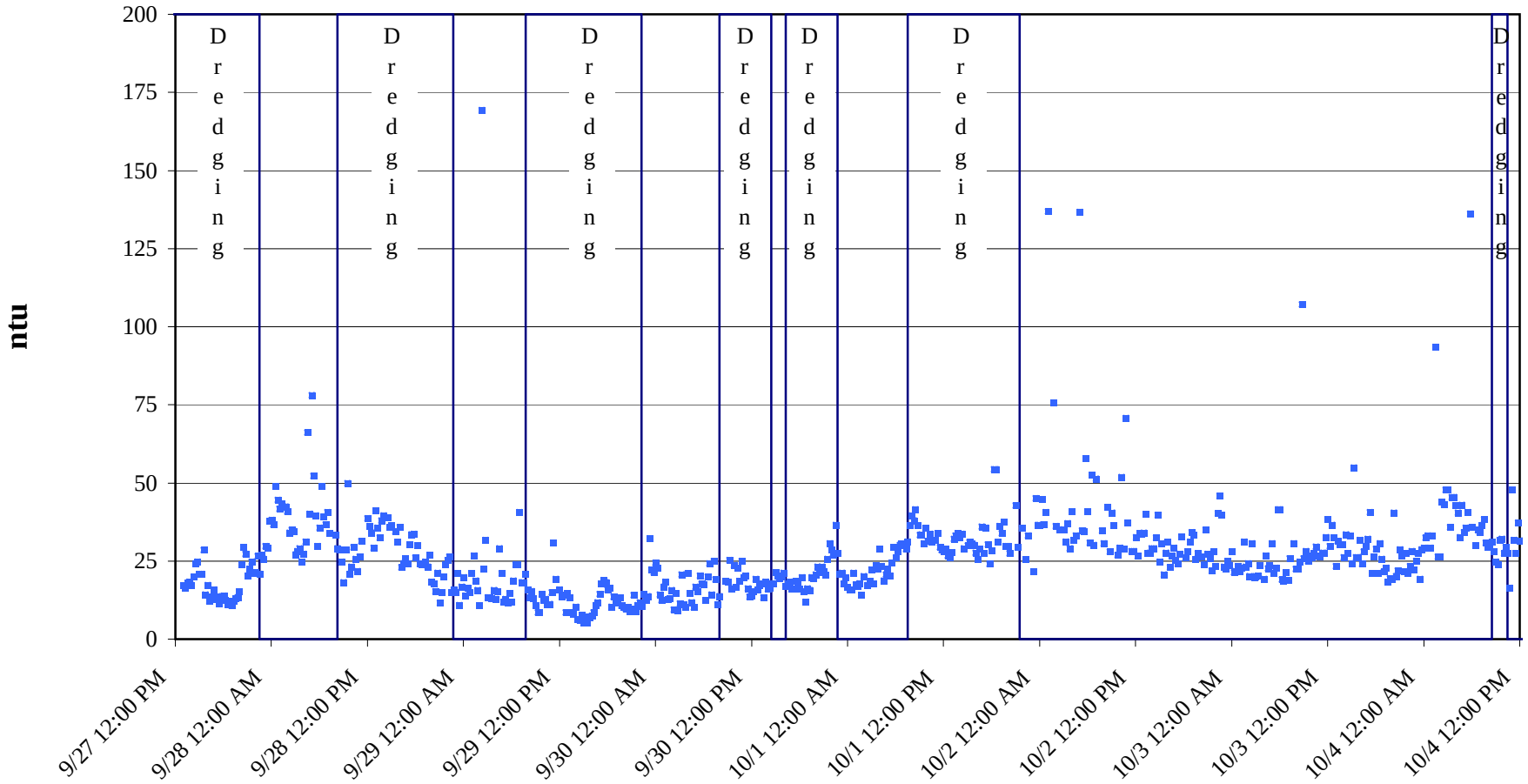
Downstream Turbidity - Meter 902



This data is presented in raw unchecked form and as such Foth & Van Dyke provides no warranty, expressed or implied, as to the accuracy, reliablility or completeness of furnished data. Any use of this data is at the sole risk of the user.

Downstream Turbidity - Meter 902

9/27/2004 12:01	-	9/28/2004 12:01	38.701	9/29/2004 12:01	15.8	9/30/2004 12:01	13.9	10/1/2004 12:01	28.101	10/2/2004 12:01	32.701	10/3/2004 12:01	38.3
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9/27/2004 12:46	-	9/28/2004 12:46	29.201	9/29/2004 12:46	8.601	9/30/2004 12:46	15.9	10/1/2004 12:46	26.201	10/2/2004 12:46	33.701	10/3/2004 12:46	32.401
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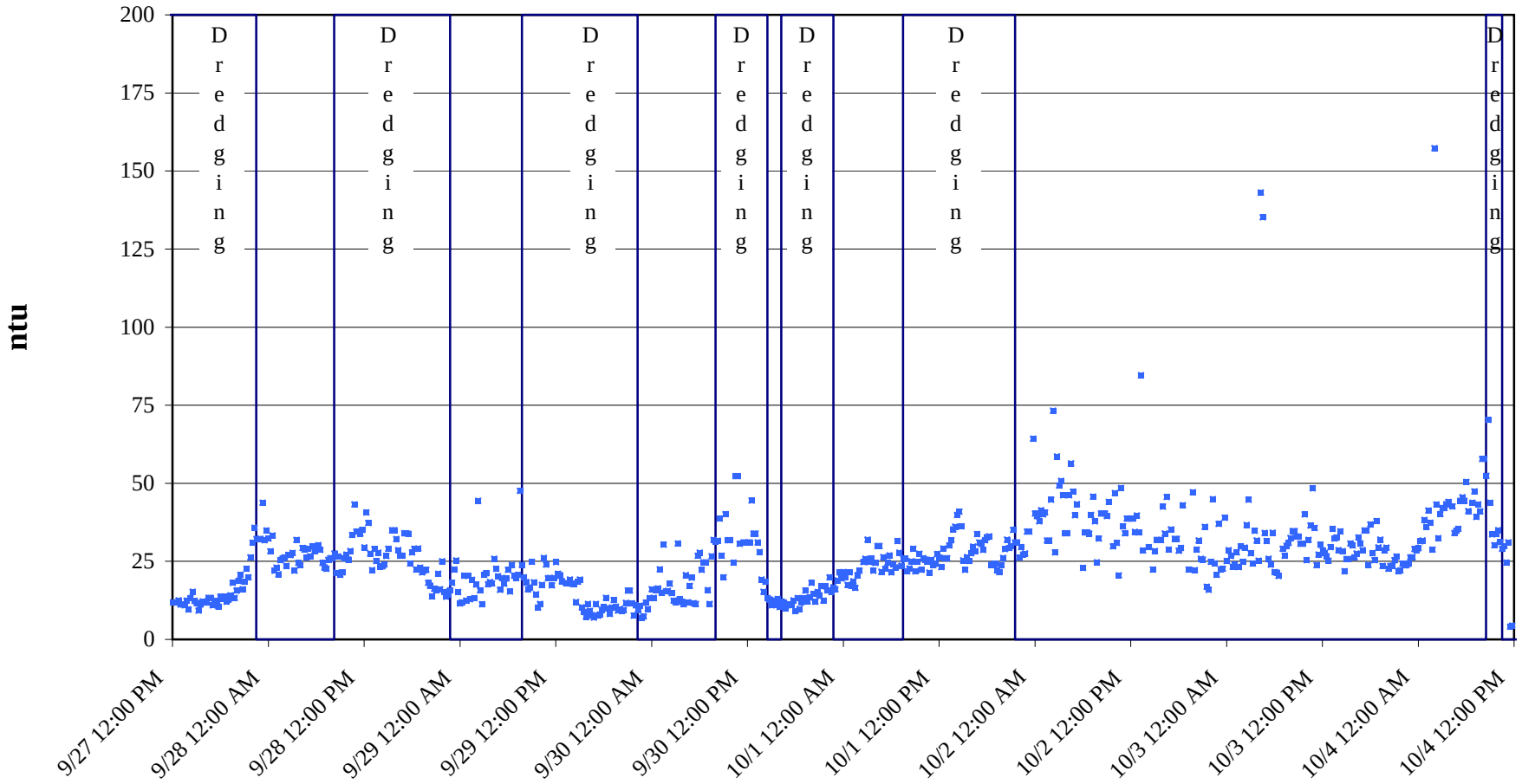
Far Downstream Turbidity - Meter 905



Far Downstream Turbidity - Meter 905

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9/28/2004 5:31	29.8	9/29/2004 5:31	17.8	9/30/2004 5:31	11.4	10/1/2004 5:31	24.601	10/2/2004 5:31	1087.7	10/3/2004 5:31	24	10/4/2004 5:31	45.5
9/28/2004 5:46	28.3	9/29/2004 5:46	19.5	9/30/2004 5:46	26.8	10/1/2004 5:46	26.9	10/2/2004 5:46	1087.7	10/3/2004 5:46	34.201	10/4/2004 5:46	44.401
9/28/2004 6:01	29.4	9/29/2004 6:01	22.3	9/30/2004 6:01	27.8	10/1/2004 6:01	21.5	10/2/2004 6:01	22.9	10/3/2004 6:01	21.601	10/4/2004 6:01	50.401
9/28/2004 6:16	30.201	9/29/2004 6:16	15.4	9/30/2004 6:16	22.3	10/1/2004 6:16	24.101	10/2/2004 6:16	34.3	10/3/2004 6:16	21.4	10/4/2004 6:16	41.1
9/28/2004 6:31	28.701	9/29/2004 6:31	23.9	9/30/2004 6:31	24.701	10/1/2004 6:31	23.101	10/2/2004 6:31	34.3	10/3/2004 6:31	20.3	10/4/2004 6:31	207.9
9/28/2004 6:46	24.5	9/29/2004 6:46	20.4	9/30/2004 6:46	24.701	10/1/2004 6:46	31.5	10/2/2004 6:46	33.901	10/3/2004 6:46	1081.801	10/4/2004 6:46	43.8
9/28/2004 7:01	23.101	9/29/2004 7:01	19.701	9/30/2004 7:01	15.8	10/1/2004 7:01	27.8	10/2/2004 7:01	39.901	10/3/2004 7:01	29	10/4/2004 7:01	47.401
9/28/2004 7:16	22.601	9/29/2004 7:16	20.701	9/30/2004 7:16	11.4	10/1/2004 7:16	23.601	10/2/2004 7:16	45.701	10/3/2004 7:16	26.8	10/4/2004 7:16	39.201
9/28/2004 7:31	25.5	9/29/2004 7:31	47.6	9/30/2004 7:31	26.601	10/1/2004 7:31	25.8	10/2/2004 7:31	37.8	10/3/2004 7:31	30	10/4/2004 7:31	43.201
9/28/2004 7:46	26	9/29/2004 7:46	23.9	9/30/2004 7:46	31.9	10/1/2004 7:46	25.9	10/2/2004 7:46	24.701	10/3/2004 7:46	30.9	10/4/2004 7:46	41
9/28/2004 8:01	26	9/29/2004 8:01	19.9	9/30/2004 8:01	31.3	10/1/2004 8:01	21.8	10/2/2004 8:01	32.3	10/3/2004 8:01	32.5	10/4/2004 8:01	57.8
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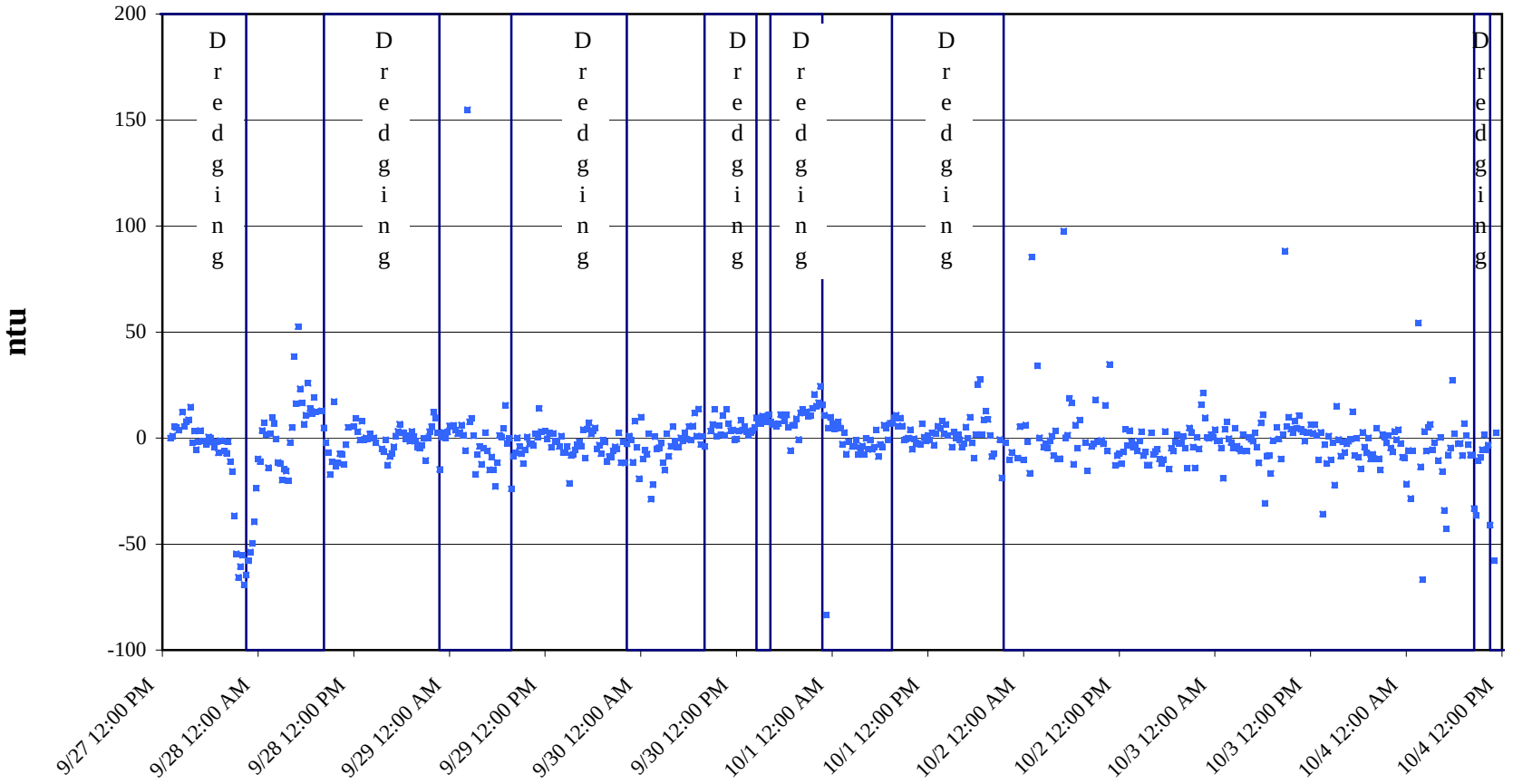
9/28/2004 8:31	21.3	9/29/2004 8:31	16.101	9/30/2004 8:31	38.701	10/1/2004 8:31	25	10/2/2004 8:31	40.3	10/3/2004 8:31	34.701	10/4/2004 8:31	52.401
9/28/2004 8:46	26.5	9/29/2004 8:46	16.701	9/30/2004 8:46	26.8	10/1/2004 8:46	29	10/2/2004 8:46	40.3	10/3/2004 8:46	32.901	10/4/2004 8:46	70.301
9/28/2004 9:01	20.701	9/29/2004 9:01	24.9	9/30/2004 9:01	19.9	10/1/2004 9:01	21.8	10/2/2004 9:01	39.5	10/3/2004 9:01	32.901	10/4/2004 9:01	43.8
9/28/2004 9:16	21.5	9/29/2004 9:16	18.3	9/30/2004 9:16	40.1	10/1/2004 9:16	24.9	10/2/2004 9:16	44	10/3/2004 9:16	30.601	10/4/2004 9:16	33.6
9/28/2004 9:31	26	9/29/2004 9:31	14.5	9/30/2004 9:31	31.8	10/1/2004 9:31	27.4	10/2/2004 9:31	1086.901	10/3/2004 9:31	30.601	10/4/2004 9:31	30.201
9/28/2004 9:46	27.201	9/29/2004 9:46	10.2	9/30/2004 9:46	31.8	10/1/2004 9:46	22.3	10/2/2004 9:46	29.8	10/3/2004 9:46	40	10/4/2004 9:46	33.701
9/28/2004 10:01	25.601	9/29/2004 10:01	11.4	9/30/2004 10:01	1104.2	10/1/2004 10:01	26	10/2/2004 10:01	46.901	10/3/2004 10:01	25.4	10/4/2004 10:01	35
9/28/2004 10:16	28.3	9/29/2004 10:16	17.5	9/30/2004 10:16	24.601	10/1/2004 10:16	25.601	10/2/2004 10:16	30.9	10/3/2004 10:16	31.9	10/4/2004 10:16	31.201
9/28/2004 10:31	33.5	9/29/2004 10:31	26.101	9/30/2004 10:31	52.3	10/1/2004 10:31	24.9	10/2/2004 10:31	20.5	10/3/2004 10:31	36.5	10/4/2004 10:31	29
9/28/2004 10:46	43.201	9/29/2004 10:46	24	9/30/2004 10:46	52.3	10/1/2004 10:46	21.4	10/2/2004 10:46	48.5	10/3/2004 10:46	48.401	10/4/2004 10:46	30
9/28/2004 11:01	34.5	9/29/2004 11:01	19.601	9/30/2004 11:01	30.601	10/1/2004 11:01	25.5	10/2/2004 11:01	36.201	10/3/2004 11:01	35.701	10/4/2004 11:01	24.601
9/28/2004 11:16	34.5	9/29/2004 11:16	19.701	9/30/2004 11:16	1109.7	10/1/2004 11:16	23.8	10/2/2004 11:16	34	10/3/2004 11:16	23.8	10/4/2004 11:16	31.101
9/28/2004 11:31	33.901	9/29/2004 11:31	17.3	9/30/2004 11:31	31.101	10/1/2004 11:31	24.201	10/2/2004 11:31	38.701	10/3/2004 11:31	27.201	10/4/2004 11:31	4.101
9/28/2004 11:46	35.1	9/29/2004 11:46	19.601	9/30/2004 11:46	31.101	10/1/2004 11:46	27.3	10/2/2004 11:46	38.701	10/3/2004 11:46	30.4	10/4/2004 11:46	4.401
												10/4/2004 12:01	37.5

Turbidity
Downstream/Upstream Difference
(Downstream Minus Upstream)



Attachment 4

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Telemetric Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
8/30/2004	13:47	19.8	19	25	6	912	Calm (0-5 mph)	1 RA 04 DEWT SW 1 - 912
8/30/2004	13:54	19.1	24	22	-2	902	Calm (0-5 mph)	1 RA 04 DEWT SW 2 - 902
8/30/2004	14:01	20.1	18	23	5	905	Calm (0-5 mph)	1 RA 04 DEWT SW 3 - 905
8/31/2004	19:32	12.0	13.5	15	1.5	912	Calm (0-5 mph)	1 RA 04 DEWT SW 4 - 912
8/31/2004	19:40	18.2	23	25	2	902	Calm (0-5 mph)	1 RA 04 DEWT SW 5 - 902
				24				1 RA 04 DEWT SW 5Dup - 902
8/31/2004	19:47	12.8	13.5	17	3.5	905	Calm (0-5 mph)	1 RA 04 DEWT SW 6 - 905
				<1.0				1 RA 04 DEWT SW 7RINSE - 905
9/1/2004	12:56	24.2	23	28	5	912	Calm (0-5 mph)	1 RA 04 DEWT SW 8 - 912
9/1/2004	13:08	51.1	39	36	-3	902	Calm (0-5 mph)	1 RA 04 DEWT SW 9 - 902
9/1/2004	13:15	22.8	21.6	25	3.4	905	Calm (0-5 mph)	1 RA 04 DEWT SW 10 - 905
9/2/2004	12:16	22.4	23	26	3	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 11 - 912
9/2/2004	12:31	34.4	35	41	6	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 12 - 902
9/2/2004	12:44	33.3	30	31	1	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 13 - 905
9/3/2004	11:55	21.1	18	20	2	912	Calm (0-10 mph)	1 RA 04 DEWT SW 14 - 912
9/3/2004	12:05	39.7	30	28	-2	902	Calm (0-10 mph)	1 RA 04 DEWT SW 15 - 902
				28				1 RA 04 DEWT SW 15Dup - 902
9/3/2004	12:13	16.6	18	20	2	905	Calm (0-10 mph)	1 RA 04 DEWT SW 16 - 905
				<1.0				1 RA 04 DEWT SW 16RINSE - 905
9/7/2004	7:22	20	32.6		NA	902	Calm (0-10 mph)	NA
9/7/2004	7:26	20.7	33		NA	905	Calm (0-10 mph)	NA
9/7/2004	7:51	15.5	28.5		NA	912	Calm (0-10 mph)	NA
9/7/2004	11:52	18.7		24	5.3	912	Calm (0-10 mph)	1 RA 04 DEWT SW 18 - 912
9/7/2004	12:07	25		29	4	902	Calm (0-10 mph)	1 RA 04 DEWT SW 19 - 902
9/7/2004	12:15	22.7		23	0.3	905	Calm (0-10 mph)	1 RA 04 DEWT SW 20 - 905
9/8/2004	11:39	51.3		58	6.7	912	Windy (15-20 mph)	1 RA 04 DEWT SW 21 - 912
9/8/2004	11:50	36		42	6	902	Windy (15-20 mph)	1 RA 04 DEWT SW 22 - 902
9/8/2004	11:56	39.9		48	8.1	905	Windy (15-20 mph)	1 RA 04 DEWT SW 23 - 905
9/9/2004	11:11	31.8	33	25	-8	912	Calm (0-5 mph)	1 RA 04 DEWT SW 24 - 912
9/9/2004	11:20	24	26	25	-1	902	Calm (0-5 mph)	1 RA 04 DEWT SW 25 - 902
9/9/2004	11:35	23.2	26	24	-2	905	Calm (0-5 mph)	1 RA 04 DEWT SW 26 - 905
9/10/2004	9:36	23.5	26	21	-5	912	Windy (10-20 mph)	1 RA 04 DEWT SW 27 - 912
9/10/2004	9:48	1100	35	22	-13	902	Windy (10-20 mph)	1 RA 04 DEWT SW 28 - 902
				23				1 RA 04 DEWT SW 28Dup - 902
9/10/2004	10:00	657	30	24	-6	905	Windy (10-20 mph)	1 RA 04 DEWT SW 29 - 905
				<1.0				1 RA 04 DEWT SW 30RINSE - 905
9/11/2004	9:43	23	30	21	-9	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 31 - 912
9/11/2004	9:53	21.7	32	24	-8	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 32 - 902
9/11/2004	10:01	44.1	33	27	-6	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 33 - 905
9/14/2004	10:43	18.8	20.5	23	2.5	912	Windy (10-20 mph)	1 RA 04 000A SW 34 - 912
9/14/2004	10:52	20	18.6	22	3.4	902	Windy (10-20 mph)	1 RA 04 000A SW 35 - 902
9/14/2004	11:01	16	16.8	21	4.2	905	Windy (10-20 mph)	1 RA 04 000A SW 36 - 905
9/15/2004	11:16	36.9	35.9	16	-19.9	912	Windy (15-25 mph)	1 RA 04 000A SW 37 - 912
9/15/2004	11:31	23.9	23	26	3	902	Windy (15-25 mph)	1 RA 04 000A SW 38 - 902
9/15/2004	11:45	24.9	25.5	26	0.5	905	Windy (15-25 mph)	1 RA 04 000A SW 39 - 905
9/16/2004	9:30	36	36	44	8	912	Breezy (5-15 mph)	1 RA 04 000A SW 40 - 912
9/16/2004	9:55	26	26	28	2	902	Breezy (5-15 mph)	1 RA 04 000A SW 41 - 902
				27				1 RA 04 000A SW 41Dup - 902
9/16/2004	10:03	34.5	34.5	34	-0.5	905	Breezy (5-15 mph)	1 RA 04 000A SW 42 - 905
				<1.0				1 RA 04 000A SW 43RINSE - 905
9/17/2004	10:32	18.2	36	15	-21	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 44 - 912
9/17/2004	10:58	17.6	17	16	-1	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 45 - 902
9/17/2004	11:08	15.3	17	14	-3	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 46 - 905
9/20/2004	12:57	39.2	36	45	9	912	Breezy (5-15 mph)	1 RA 04 000A SW 47 - 912
9/20/2004	12:31	32.4	37	35	-2	902	Breezy (5-15 mph)	1 RA 04 000A SW 48 - 902
				35				1 RA 04 000A SW 48Dup - 902
9/20/2004	12:22	31.7	36	36	0	905	Breezy (5-15 mph)	1 RA 04 000A SW 49 - 905
				1.2				1 RA 04 000A SW 50RINSE - 905
9/21/2004	10:08	39.4	38	40	2	905	Breezy (5-15 mph)	1 RA 04 000A SW 51 - 905
9/21/2004	10:21	35.4	42	38	-4	902	Breezy (5-15 mph)	1 RA 04 000A SW 52 - 902
9/21/2004	10:35	41.7	36	52	16	912	Breezy (5-15 mph)	1 RA 04 000A SW 53 - 912
9/22/2004	10:13	21.8	24	22	-2	905	Calm (0-5 mph)	1 RA 04 000A SW 54 - 905
9/22/2004	10:23	21.3	23	24	1	902	Calm (0-5 mph)	1 RA 04 000A SW 55 - 902
9/22/2004	10:38	18.5	36	28	-8	912	Calm (0-5 mph)	1 RA 04 000A SW 56 - 912
9/23/2004	11:11	15.1	19	16	-3	905	Breezy (5-15 mph)	1 RA 04 000A SW 57 - 905
9/23/2004	11:23	31.7	20	19	-1	902	Breezy (5-15 mph)	1 RA 04 000A SW 58 - 902
9/23/2004	12:17	26.6	27	29	2	912	Breezy (5-15 mph)	1 RA 04 000A SW 59 - 912
9/24/2004	9:35	18.2	19.5	22	2.5	905	Calm (0-5 mph)	1 RA 04 000A SW 60 - 905
9/24/2004	9:44	34.8	27.8	30	2.2	902	Calm (0-5 mph)	1 RA 04 000A SW 61 - 902
				30				1 RA 04 000A SW 61Dup - 902
9/24/2004	10:02	39.1	47	72	25	912	Calm (0-5 mph)	1 RA 04 000A SW 62 - 912
				1.3				1 RA 04 000A SW 63RINSE - 912
9/27/2004	11:10	11.6	12.5	14	1.5	905	Calm (0-5 mph)	1 RA 04 000A SW 64 - 905

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

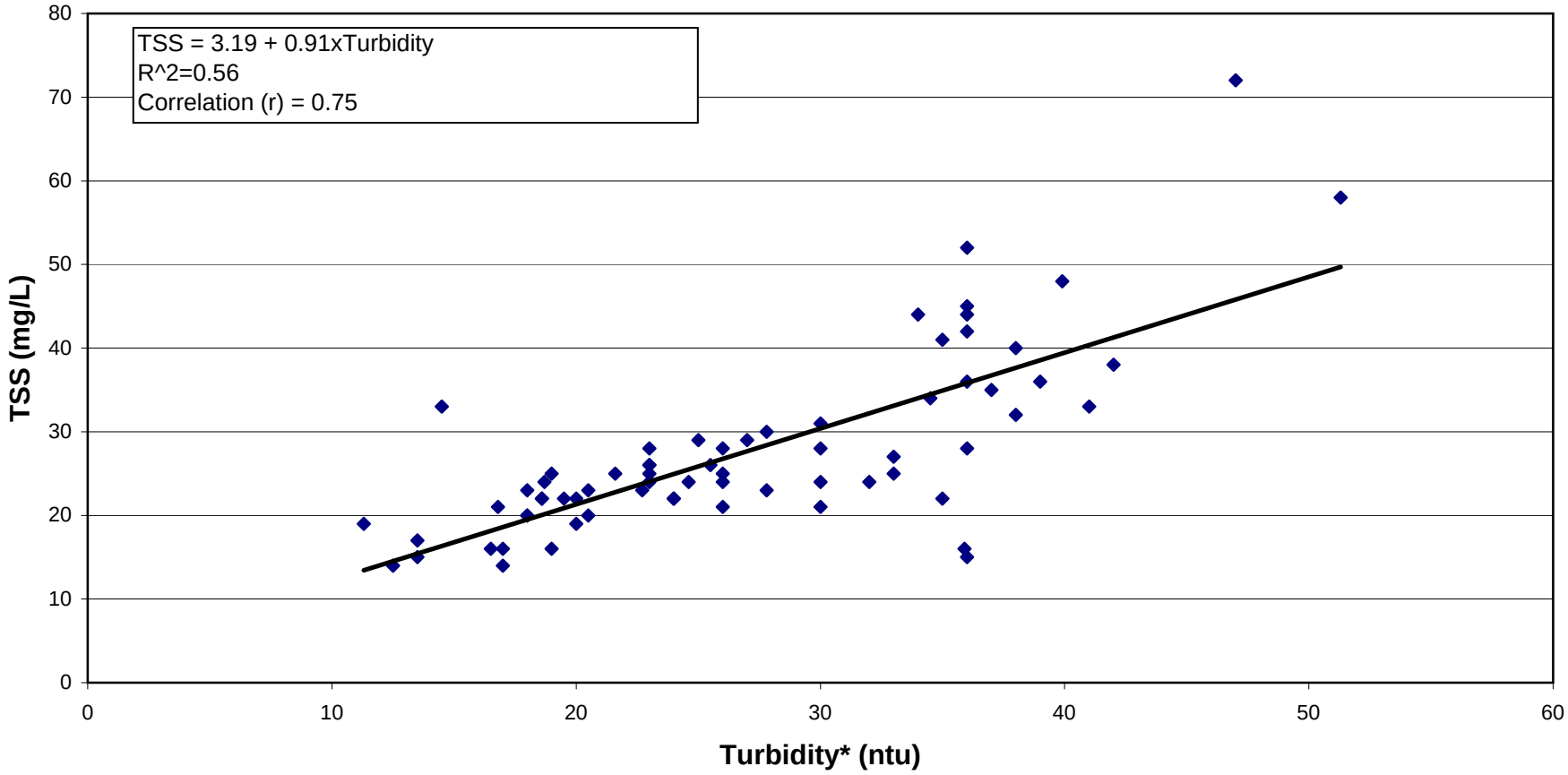
Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Telemetric Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
9/27/2004	11:21	53.1	16.5	16	-0.5	902	Calm (0-5 mph)	1 RA 04 000A SW 65 - 902
9/27/2004	11:36	14.3	20	22	2	912	Calm (0-5 mph)	1 RA 04 000A SW 66 - 912
9/27/2004	11:46	11.6			NA	902	Calm (0-5 mph)	NA
9/27/2004	13:01	17.2			NA	902	Calm (0-5 mph)	NA
9/28/2004	11:31	33.9	38	32	-6	905	Windy (15-20 mph)	1 RA 04 000A SW 67 - 905
9/28/2004	11:38	38.7	41	33	-8	902	Windy (15-20 mph)	1 RA 04 000A SW 68 - 902
				33				1 RA 04 000A SW 68Dup - 902
9/28/2004	11:48	33.4	34	44	10	912	Windy (15-20 mph)	1 RA 04 000A SW 69 - 912
				1.2				1 RA 04 000A SW 70RINSE - 912
9/29/2004	11:38	17.3	20.5	20	-0.5	905	Calm (0-5 mph)	1 RA 04 000A SW 71 - 905
9/29/2004	11:46	19.3	27.8	23	-4.8	902	Calm (0-5 mph)	1 RA 04 000A SW 72 - 902
9/29/2004	12:22	14.2	14.5	33	18.5	912	Calm (0-5 mph)	1 RA 04 000A SW 73 - 912
9/29/2004	12:31	14.3			NA	902	Calm (0-5 mph)	NA
9/30/2004	10:20	24.6		24	-0.6	905	Calm (0-5 mph)	1 RA 04 000A SW 74 - 905
9/30/2004	10:30	18.6		22	3.4	902	Calm (0-5 mph)	1 RA 04 000A SW 75 - 902
9/30/2004	10:50	11.3		19	7.7	912	Calm (0-5 mph)	1 RA 04 000A SW 76 - 912
10/1/2004	10:34	24.9	27			905	Breezy (10-15 mph)	1 RA 04 000A SW 77 - 905
10/1/2004	10:45	31.8	38			902	Breezy (10-15 mph)	1 RA 04 000A SW 78 - 902
								1 RA 04 000A SW 78Dup - 902
10/1/2004	11:03	34	34			912	Breezy (10-15 mph)	1 RA 04 000A SW 79 - 912
								1 RA 04 000A SW 80RINSE - 912
10/4/2004	10:21	31.2	21.5			905	Breezy (10-15 mph)	1 RA 04 000A SW 81 - 905
10/4/2004	10:27	27.5	22.2			902	Breezy (10-15 mph)	1 RA 04 000A SW 82 - 902
10/4/2004	10:58	32.7	34			912	Breezy (10-15 mph)	1 RA 04 000A SW 83 - 912

[1] Sampling time approximate - readings collected on regular 15 minute intervals.

[2] Hand-held turbidity used in difference if available.

Data presented are Draft and Preliminary. These data have not undergone QA procedures and should not be viewed as final.

TSS/Turbidity Correlation
Data presented are Draft and Preliminary



Note: Includes data collected 8/30/04 - 9/30/04

*Data are hand held turbidity readings when available, otherwise telemetric reading sampled closest in time

J:\scopes\04G007\Effluent_SurfaceWater_Data\Preliminary\Turbidity_TSS_Corr.xls

Attachment 5

GW Partners
Lower Fox River - OU-1
04G007

Effluent Results - Draft and Preliminary

Date	Sample ID	TSS (mg/L)	BOD (mg/L)	Daily Flow (million gallons)	Ammonia Nitrogen (mg/L)	Total PCBs (ug/L)
9/3/04	IRA04 DEWT EF1	21	-	-	<0.32	<0.26
9/7/04	IRA04 DEWT EF2	9.0	-	-	0.67	<0.24
9/9/04	IRA04 DEWT EF3	19	-	-	3.1	<0.24
9/10/04	IRA04 DEWT EF4	24	-	-	4.5	<0.32
9/11/04	IRA04 DEWT EF5	16	-	-	2.9	<0.25
9/13/04	IRA04 DEWT EF6	12	-	-	4.9	<0.26
9/15/04	IRA04 DEWT EF7	87	-	-	6.7	<0.25
9/16/04	IRA04 DEWT EF8	40	16	0.8	4.4	<0.25
9/17/04	IRA04 DEWT EF9	33	12	-	3.2	<0.25
9/17/04 Dup.	IRA04 DEWT EF9 DUP	31	-	-	3.1	-
9/20/04	IRA04 DEWT EF10	11	3.1	1.1	2.2	<0.26
9/20/04	IRA04 DEWT EF10 Dup	-	-	-	-	<0.25
9/21/04	IRA04 DEWT EF11	17	3.2	0.3	1.8	-
9/21/04	IRA04 DEWT EF11 Dup	-	3.2	-	-	-
9/22/04	IRA04 DEWT EF12	17	6.6	0.4	1.5	-
9/23/04	IRA04 DEWT EF13	20	3.4	1.0	1.5	-
9/24/04	IRA04 DEWT EF14	18	3.1	0.4	1.4	-
9/25/04	IRA04 DEWT EF15	19	<2.0	-	1.5	-
9/27/04	IRA04 DEWT EF16	10	<2.0	0.6	-	-
9/28/04	IRA04 DEWT EF17	11	4.2	0.7	-	-
9/29/04	IRA04 DEWT EF18	13	-	0.6	-	-
9/29/04	IRA04 DEWT EF18 Dup	10	-	-	-	-
9/30/04	IRA04 DEWT EF19	11	-	0.5	-	-
Performance Expectation		5[a], 10[b]	10	1.2 - 1.7 (mgd)		< 0.1 - 0.5

[a] Monthly average

[b] Daily maximum

Data received by 10/5/04

Data presented are Draft and Preliminary.

These data have not undergone QA procedures and should not be viewed as final.

DRAFT
Foth & Van Dyke
Memorandum

October 12, 2004

TO: Ben Hung, WDNR
Gary Kincaid, WDNR
Jim Hahnenberg, EPA

CC: Bill Hartman, GW Partners
Sherman LaViolette, CH2MHill
Mike Jury, CH2MHill
Tara Konkle, Foth & Van Dyke
Steve Laszewski, Foth & Van Dyke

FR: Jim Hutchison, Foth & Van Dyke

RE: OU1 2004 Environmental Monitoring Data – October 1 through October 8, 2004

Attached are monitoring data for the one week period beginning October 1, 2004 and ending October 8, 2004 for the environmental monitoring activities pursuant to the 2004 RA Work Plan, May, 2004 and subsequent addendum. If you have any questions or comments please contact Jim Hutchison at (920) 497 2500 or at jhutchison@foth.com. In addition to the weekly data summary, project data will be provided in a database format following completion of the 2004 RA work.

Data presented are draft and preliminary. These data have not undergone QA procedures and should not be viewed as final.

Air Monitoring Data:

Summary: Air sampling at the four meter locations was initiated on August 7, 2004. Sampling consisted of a 72 hour sampling event per week. Continuous sampling began on August 30, 2004. PCBs have not been detected to date.

Attachment: Attachment 1- Summary of Air Sampling Results Calculated to Date
Attachment 2- Monitor Location Sketch

Surface Water Data:

Summary: River turbidity meters began operation on August 20, 2004 monitoring river turbidity (NTUs) every 15 minutes at three locations. The meters are located upstream (meter 912), downstream (meter 902) and far downstream (meter 905) of dredging activities. Generally the data show that the downstream turbidity has been well within

acceptable limits of the upstream turbidity. **Please note the turbidity data graphs indicate dredging and no dredging times.**

Attachment: Attachment 3- Graphs and Tabulation of Turbidity Data for Upstream, Downstream, Far Downstream and Upstream/Downstream Difference Graph

Field Surface Water Data

Summary: Field data includes hand held turbidity measurements and TSS sampling taken at the turbidity monitoring stations between August 30, 2004 and October 11, 2004. A TSS/ Turbidity Correlation between TSS and turbidity to date shows a correlation coefficient of 0.75.

Attachment: Attachment 4-TSS and Field Turbidity Data and TSS/Turbidity Correlation

Water Treatment Data:

Summary: The effluent water is being analyzed for TSS, PCBs, Ammonia and BOD. In addition, although not part of the permit discussions, a decision was made at the October 7, 2004 OU1 Production Meeting to begin to analyze the effluent for mercury.

Attachment: Attachment 5- Effluent water results

Post-Dredge Bathymetric QA Summary

Summary: The post-dredge QA bathymetric survey was conducted on October 5, 2004 in Region IV of Sub-Area A. Based on the analysis of the survey data, it was determined at the October 7, 2004 Production Meeting that the target elevations were achieved in Region IV of Sub-Area A.

Attachment: Attachment 6 – Sub-Area A Region IV Post Dredge Isopach.

Sediment Sample Verification:

Summary: Post dredging sediment samples collection began on October 11, 2004 in Region IV of Deposit A. Laboratory test results are not yet available.

Attachment: None

Note: Transmitted when available, as these data will be obtained less frequently then other project environmental data.

Sand Placement Verification:

Summary: Sand placement has not been initiated to date

Attachment: None

Note: Transmitted when available, as these data will be obtained less frequently then other project environmental data.

Attachment 1

GW Partners, LLC

Lower Fox River Operable Unit 1

Summary of Air Sampling Results Calculated through October 12, 2004

All Results Reported in Total PCBs[1]

Dates	Sampling Round	Location ID	Sample ID	Laboratory Method[2]	Laboratory Reporting Limit (Total µg of PCBs)	Laboratory Results (Total µg of PCBs)[3]	Total Air Volume Sampled (Total m^3)		Calculated PCB Conc'n ($\mu g/m^3$)[4]
9-23-04 to 9-26-04	13	GWP-1	PCB-01-13	EPA TO-4A	0.5	ND	1125.347	≤	0.00044
9-23-04 to 9-26-04	13	GWP-2	PCB-02-13	EPA TO-4A	0.5	ND	1135.905	≤	0.00044
9-23-04 to 9-26-04	13	GWP-3	PCB-03-13	EPA TO-4A	0.5	ND	1129.01	≤	0.00044
9-23-04 to 9-26-04	13	GWP-4	PCB-04-13	EPA TO-4A	0.5	ND	1151.349	≤	0.00043
9-23-04 to 9-26-04	13	N/A	Field Blank 5	EPA TO-4A	0.5	ND	N/A		N/A
9-26-04 to 9-29-04	14	GWP-1	PCB-01-14	EPA TO-4A	0.5	ND	1110.487	≤	0.00045
9-26-04 to 9-29-04	14	GWP-2	PCB-02-14	EPA TO-4A	0.5	ND	1104.975	≤	0.00045
9-26-04 to 9-29-04	14	GWP-3	PCB-03-14	EPA TO-4A	0.5	ND	1072.882	≤	0.00047
9-26-04 to 9-29-04	14	GWP-4	PCB-04-14	EPA TO-4A	0.5	ND	1091.598	≤	0.00046

Notes:

1. The laboratory reports the results in terms of significant Aroclors. Included are Aroclors 1016, 1221, 1232, 1242, 1248, 1254 and 1260. This table reports total PCB Aroclors and calculates a total PCB ambient air concentration.

2. EPA Compendium Method TO-4A is for determination of pesticides and polychlorinated biphenyls in ambient air using high volume polyurethane foam (PUF) sampling followed by gas chromoatographic/multi-detector detection (GC/MD).

3. ND = "None Detected". Given the laboratory reporting limit is 0.5 ug/sample, the concentration is calculated based on this value and reported as less than this concentration.

4. As a frame of reference, the airborne concentrations observed here could be compared to the airborne concentrations observed during the previous 56/57 Demonstration Project in 1999. During that study, concentrations collected within the property boundaries of the remediation area ranged from 0.0013 to 0.0216 ug/m^3 during dredging. Baseline concentrations, obtained prior to this same dredging project ranged from 0.0003 to 0.0016 ug/m^3.

Attachment 2

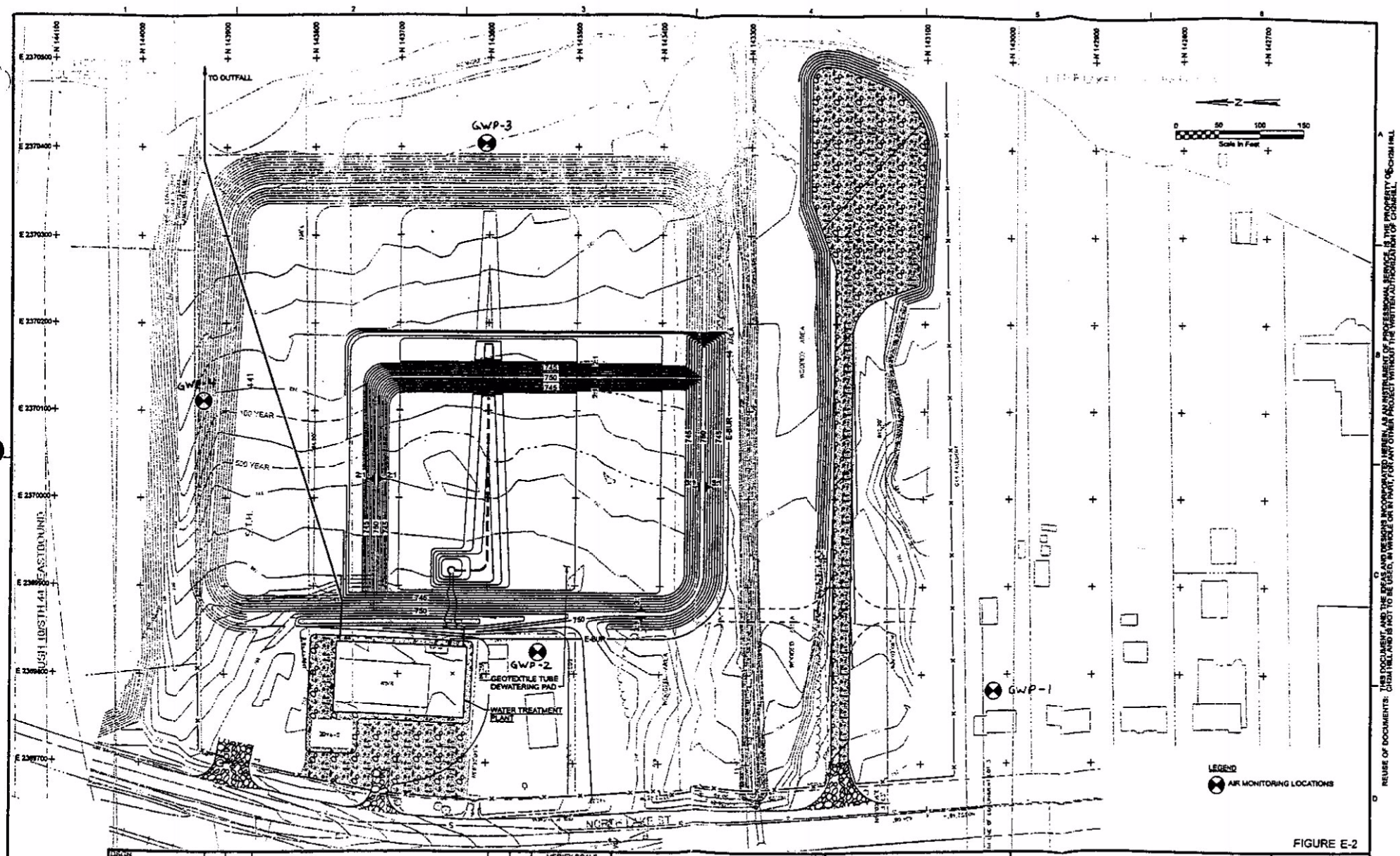


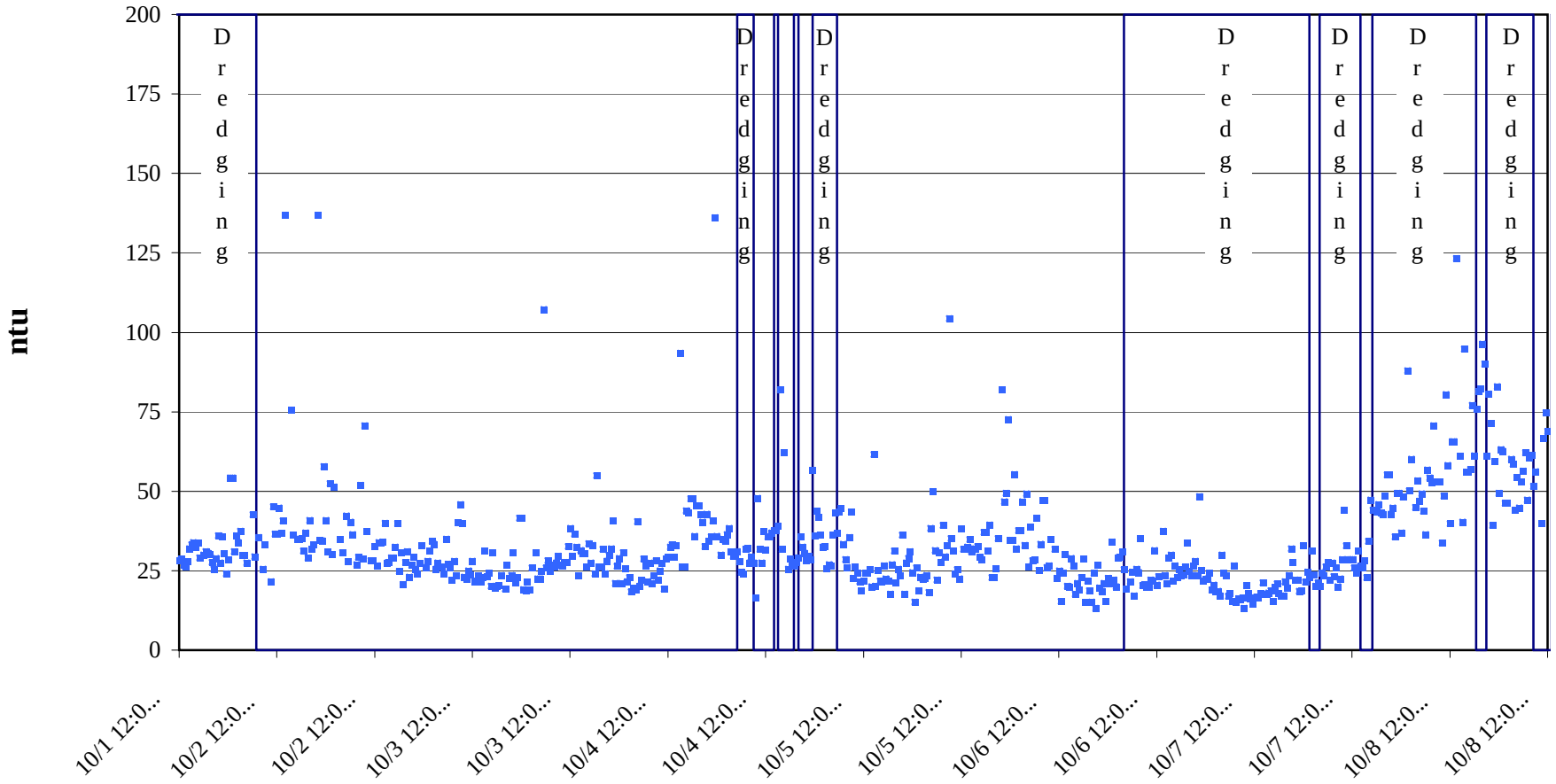
FIGURE E-2

DESIGN	C.M.LIETHEN				VERIFY SCALE	CH2MHILL	LOWER FOX RIVER (OU1) 2004 REMEDIAL ACTION TOWN OF MENASHA, WI G.W. PARTNERS, LLC	AIR MONITORING LOCATIONS	SHEET
DR	I.M.ZAEFKE				BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.				DWG C-1
CHK	D.J.PLOMB								DATE MAY 2004
APVD	S.D.LAVOLETTE	NO	DATE	REVISION	BY APVD				PROJ 315814.RA.01

FILENAME: tr5nc1416_183838.dgn PLOT DATE: 14-MAY-2004 PLOT TIME: 10:40:11

Attachment 3

Downstream Turbidity - Meter 902



Downstream Turbidity - Meter 902

10/1/2004 12:01	28.101	10/2/2004 12:01	32.701	10/3/2004 12:01	38.3	10/4/2004 12:01	31.601	10/5/2004 12:01	38.201	10/6/2004 12:01	20.5	10/7/2004 12:01	28.601
10/1/2004 12:16	28.8	10/2/2004 12:16	26.5	10/3/2004 12:16	29.701	10/4/2004 12:16	35.6	10/5/2004 12:16	31.8	10/6/2004 12:16	23.201	10/7/2004 12:16	25.8
10/1/2004 12:31	26.701	10/2/2004 12:31	33.901	10/3/2004 12:31	36.6	10/4/2004 12:31	35.6	10/5/2004 12:31	31.8	10/6/2004 12:31	285.1	10/7/2004 12:31	24.4
10/1/2004 12:46	26.201	10/2/2004 12:46	33.701	10/3/2004 12:46	32.401	10/4/2004 12:46	36.901	10/5/2004 12:46	32.5	10/6/2004 12:46	37.401	10/7/2004 12:46	31.3
10/1/2004 13:01	27.8	10/2/2004 13:01	34.1	10/3/2004 13:01	23.4	10/4/2004 13:01	37.701	10/5/2004 13:01	34.8	10/6/2004 13:01	23.601	10/7/2004 13:01	26.4
10/1/2004 13:16	32	10/2/2004 13:16	40	10/3/2004 13:16	31.4	10/4/2004 13:16	37.701	10/5/2004 13:16	31	10/6/2004 13:16	20.8	10/7/2004 13:16	26
10/1/2004 13:31	33.1	10/2/2004 13:31	27.5	10/3/2004 13:31	30.3	10/4/2004 13:31	39.1	10/5/2004 13:31	31.9	10/6/2004 13:31	29.101	10/7/2004 13:31	28.201
10/1/2004 13:46	33.901	10/2/2004 13:46	27.701	10/3/2004 13:46	30.3	10/4/2004 13:46	81.901	10/5/2004 13:46	31.9	10/6/2004 13:46	29.9	10/7/2004 13:46	22.8
10/1/2004 14:01	32.5	10/2/2004 14:01	29.101	10/3/2004 14:01	26.201	10/4/2004 14:01	31.8	10/5/2004 14:01	32.701	10/6/2004 14:01	21.701	10/7/2004 14:01	34.3
10/1/2004 14:16	33.701	10/2/2004 14:16	29	10/3/2004 14:16	33.6	10/4/2004 14:16	62.1	10/5/2004 14:16	29.3	10/6/2004 14:16	26.5	10/7/2004 14:16	47.201
10/1/2004 14:31	29.101	10/2/2004 14:31	32.401	10/3/2004 14:31	27.4	10/4/2004 14:31	1085	10/5/2004 14:31	28.601	10/6/2004 14:31	22.8	10/7/2004 14:31	44.1
10/1/2004 14:46	1110.2	10/2/2004 14:46	39.8	10/3/2004 14:46	33	10/4/2004 14:46	25.601	10/5/2004 14:46	37.1	10/6/2004 14:46	25.3	10/7/2004 14:46	44
10/1/2004 15:01	29.9	10/2/2004 15:01	24.8	10/3/2004 15:01	24	10/4/2004 15:01	28.8	10/5/2004 15:01	37.1	10/6/2004 15:01	23.4	10/7/2004 15:01	43.6
10/1/2004 15:16	31	10/2/2004 15:16	30.601	10/3/2004 15:16	54.901	10/4/2004 15:16	27.3	10/5/2004 15:16	31.201	10/6/2004 15:16	23.8	10/7/2004 15:16	45.901
10/1/2004 15:31	30.5	10/2/2004 15:31	20.701	10/3/2004 15:31	26.201	10/4/2004 15:31	26.5	10/5/2004 15:31	39.5	10/6/2004 15:31	26.3	10/7/2004 15:31	43.1
10/1/2004 15:46	30.201	10/2/2004 15:46	27.601	10/3/2004 15:46	26.201	10/4/2004 15:46	27.601	10/5/2004 15:46	22.8	10/6/2004 15:46	33.8	10/7/2004 15:46	42.8
10/1/2004 16:01	27.701	10/2/2004 16:01	31.101	10/3/2004 16:01	31.8	10/4/2004 16:01	29	10/5/2004 16:01	22.8	10/6/2004 16:01	25	10/7/2004 16:01	48.6
10/1/2004 16:16	25.5	10/2/2004 16:16	23	10/3/2004 16:16	24.101	10/4/2004 16:16	35.701	10/5/2004 16:16	25.701	10/6/2004 16:16	23.601	10/7/2004 16:16	55.1
10/1/2004 16:31	28.9	10/2/2004 16:31	26.701	10/3/2004 16:31	28	10/4/2004 16:31	32.401	10/5/2004 16:31	35.201	10/6/2004 16:31	26.4	10/7/2004 16:31	55.1
10/1/2004 16:46	36	10/2/2004 16:46	29.201	10/3/2004 16:46	29.8	10/4/2004 16:46	30.5	10/5/2004 16:46	404.9	10/6/2004 16:46	28	10/7/2004 16:46	42.8
10/1/2004 17:01	27.4	10/2/2004 17:01	25.3	10/3/2004 17:01	32	10/4/2004 17:01	28.201	10/5/2004 17:01	81.901	10/6/2004 17:01	23.5	10/7/2004 17:01	44.701
10/1/2004 17:16	35.701	10/2/2004 17:16	24	10/3/2004 17:16	40.701	10/4/2004 17:16	29.601	10/5/2004 17:16	46.701	10/6/2004 17:16	48.3	10/7/2004 17:16	35.701
10/1/2004 17:31	30.3	10/2/2004 17:31	27.3	10/3/2004 17:31	21.101	10/4/2004 17:31	28.4	10/5/2004 17:31	49.401	10/6/2004 17:31	25.201	10/7/2004 17:31	49.5
10/1/2004 17:46	24.101	10/2/2004 17:46	32.8	10/3/2004 17:46	26.4	10/4/2004 17:46	56.6	10/5/2004 17:46	72.701	10/6/2004 17:46	21.701	10/7/2004 17:46	49.5
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10/1/2004 21:16	29.5	10/2/2004 21:16	25.9	10/3/2004 21:16	26.5	10/4/2004 21:16	44.6	10/5/2004 21:16	41.5	10/6/2004 21:16	15.3	10/7/2004 21:16	56.701
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10/1/2004 23:01	1103.1	10/2/2004 23:01	23.101	10/3/2004 23:01	24.9	10/4/2004 23:01	26.3	10/5/2004 23:01	34.8	10/6/2004 23:01	20.4	10/7/2004 23:01	33.701
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10/2/2004 0:31	36.8	10/3/2004 0:31	21.8	10/4/2004 0:31	33.1	10/5/2004 0:31	24.3	10/6/2004 0:31	24.3	10/7/2004 0:31	16.601	10/8/2004 0:31	65.701
10/2/2004 0:46	40.701	10/3/2004 0:46	23.3	10/4/2004 0:46	29.3	10/5/2004 0:46	25.4	10/6/2004 0:46	30.201	10/7/2004 0:46	17.9	10/8/2004 0:46	123.201
10/2/2004 1:01	136.9	10/3/2004 1:01	21.5	10/4/2004 1:01	32.901	10/5/2004 1:01	19.9	10/6/2004 1:01	20.201	10/7/2004 1:01	21.201	10/8/2004 1:01	715.401
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10/2/2004 1:31	1097.6	10/3/2004 1:31	31.201	10/4/2004 1:31	93.401	10/5/2004 1:31	20.101	10/6/2004 1:31	28.9	10/7/2004 1:31	17.4	10/8/2004 1:31	40.401
10/2/2004 1:46	75.501	10/3/2004 1:46	23.201	10/4/2004 1:46	26.3	10/5/2004 1:46	25.101	10/6/2004 1:46	26.5	10/7/2004 1:46	18.101	10/8/2004 1:46	94.701
10/2/2004 2:01	36.201	10/3/2004 2:01	24.201	10/4/2004 2:01	26.3	10/5/2004 2:01	21.8	10/6/2004 2:01	17.601	10/7/2004 2:01	18.8	10/8/2004 2:01	56.1
10/2/2004 2:16	1095	10/3/2004 2:16	20.101	10/4/2004 2:16	43.901	10/5/2004 2:16	21.601	10/6/2004 2:16	21	10/7/2004 2:16	15.3	10/8/2004 2:16	56
10/2/2004 2:31	34.901	10/3/2004 2:31	30.701	10/4/2004 2:31	43.1	10/5/2004 2:31	26.5	10/6/2004 2:31	19	10/7/2004 2:31	19.8	10/8/2004 2:31	56.901
10/2/2004 2:46	34.901	10/3/2004 2:46	19.701	10/4/2004 2:46	47.701	10/5/2004 2:46	22.5	10/6/2004 2:46	22.8	10/7/2004 2:46	20.9	10/8/2004 2:46	77.101
10/2/2004 3:01	35.1	10/3/2004 3:01	20.101	10/4/2004 3:01	47.701	10/5/2004 3:01	21.8	10/6/2004 3:01	28.8	10/7/2004 3:01	17.9	10/8/2004 3:01	61.201
10/2/2004 3:16	31.201	10/3/2004 3:16	20.4	10/4/2004 3:16	35.8	10/5/2004 3:16	17.601	10/6/2004 3:16	15	10/7/2004 3:16	17.101	10/8/2004 3:16	75.801
10/2/2004 3:31	37	10/3/2004 3:31	23.601	10/4/2004 3:31	45.5	10/5/2004 3:31	27	10/6/2004 3:31	21.701	10/7/2004 3:31	17.101	10/8/2004 3:31	81.401
10/2/2004 3:46	29.101	10/3/2004 3:46	1081.7	10/4/2004 3:46	45.5	10/5/2004 3:46	31.3	10/6/2004 3:46	18.8	10/7/2004 3:46	21.601	10/8/2004 3:46	82.301
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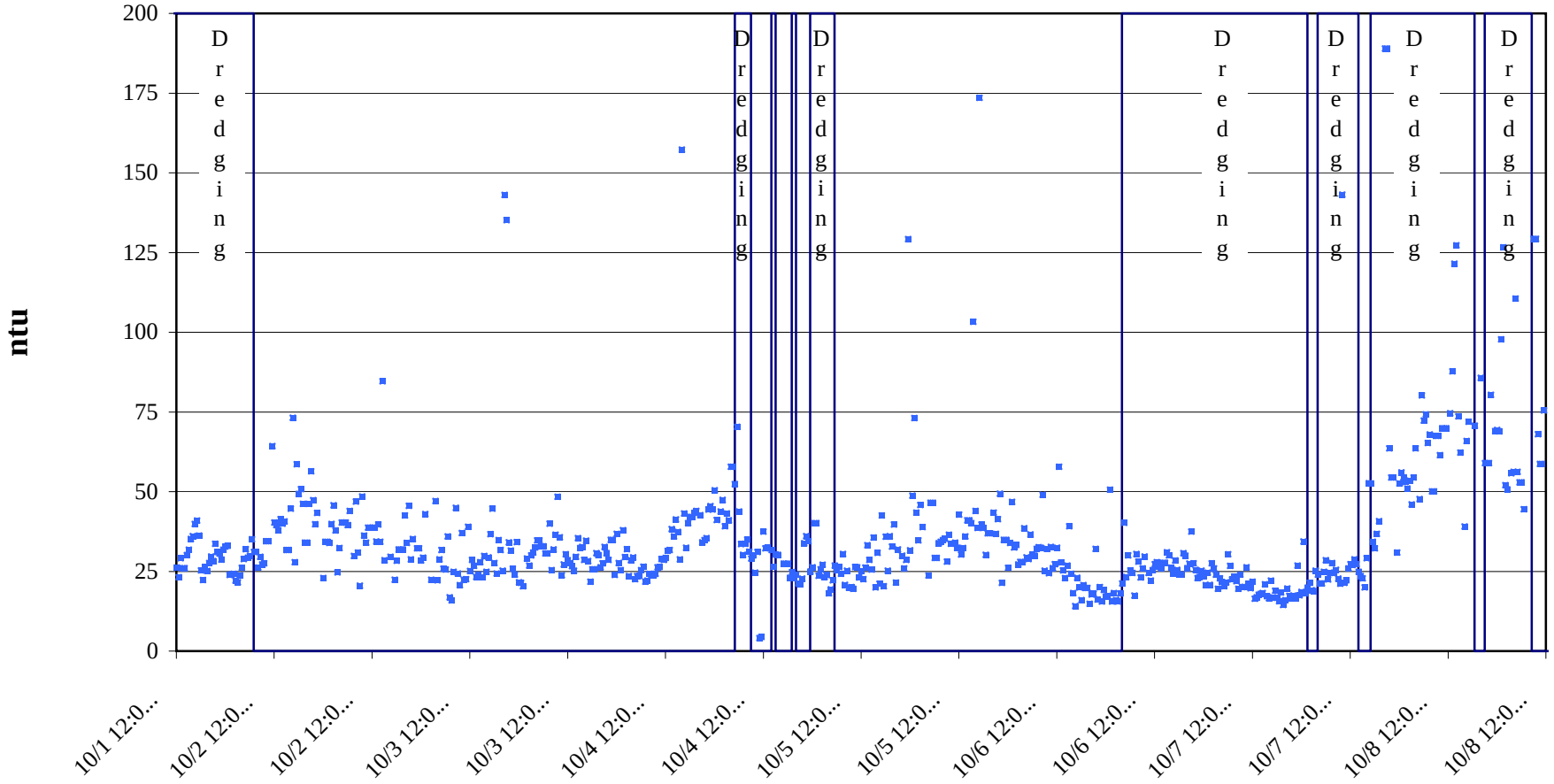
Far Downstream Turbidity - Meter 905



Far Downstream Turbidity - Meter 905

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10/2/2004 11:46	38.701	10/3/2004 11:46	30.4	10/4/2004 11:46	4.401	10/5/2004 11:46	32.401	10/6/2004 11:46	25.4	10/7/2004 11:46	25.9	10/8/2004 11:46	75.501
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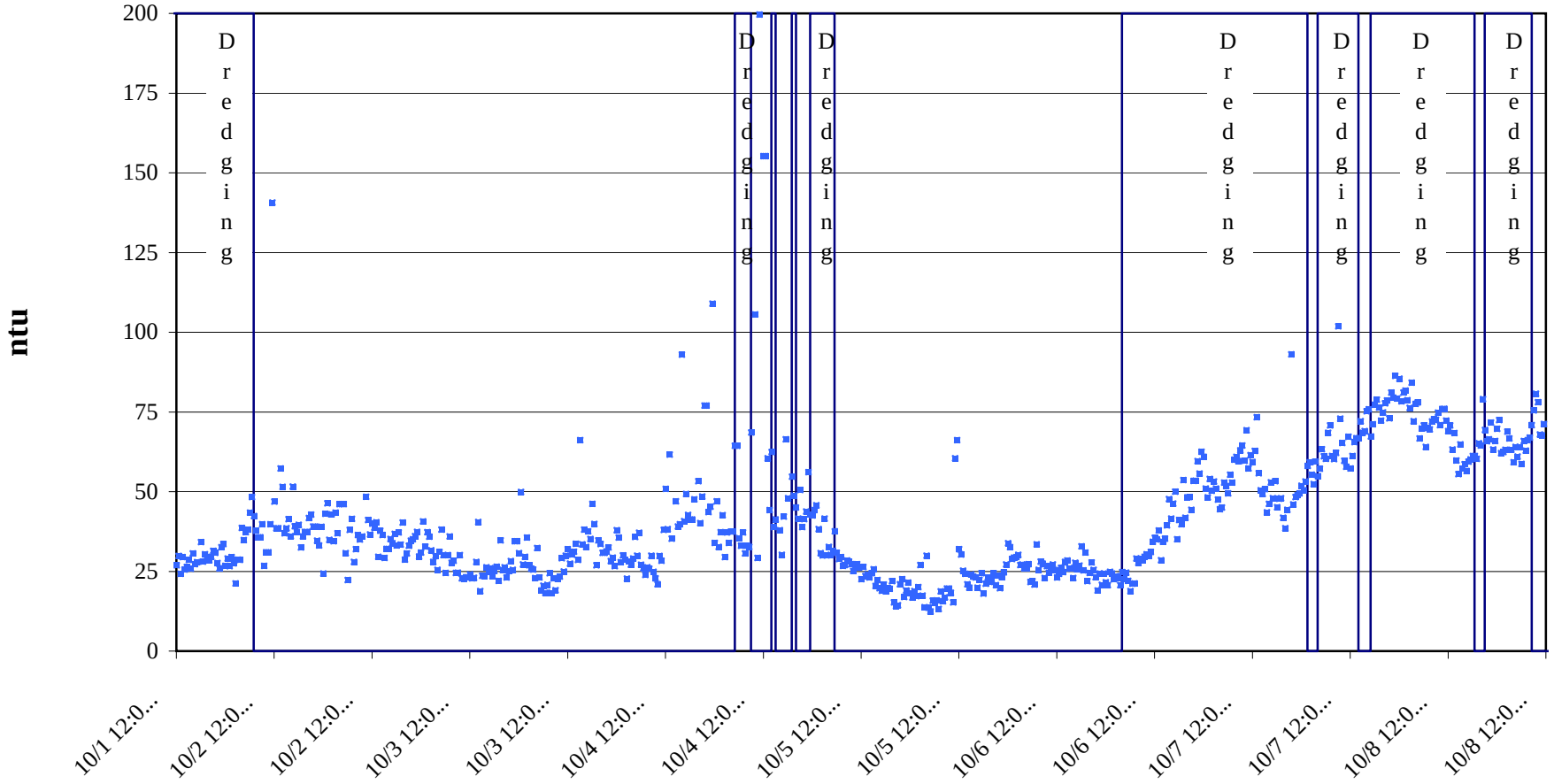
Upstream Turbidity - Meter 912



Upstream Turbidity - Meter 912

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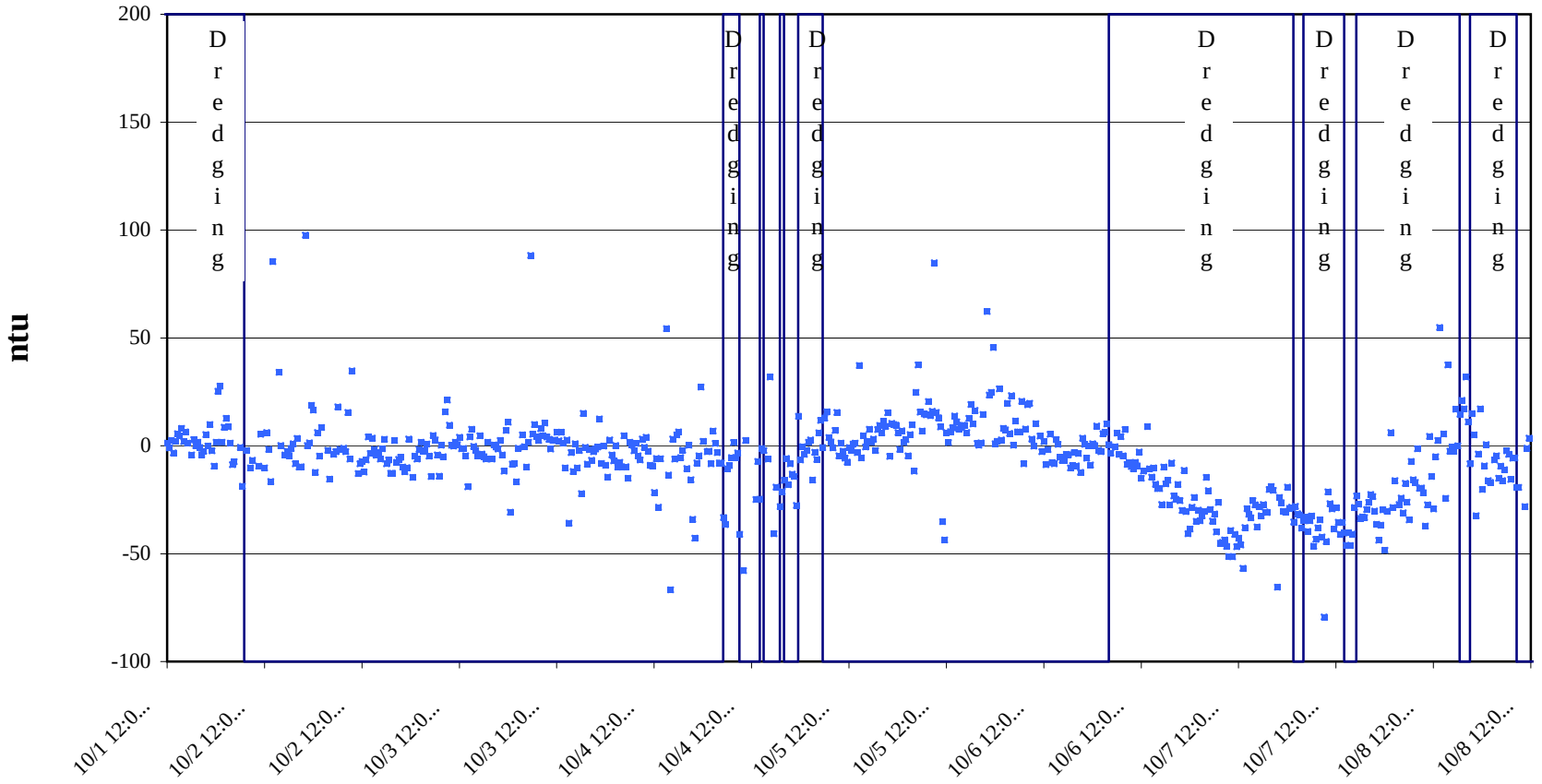
10/1/2004 22:46	26.701	10/2/2004 22:46	30.101	10/3/2004 22:46	22.8	10/4/2004 22:46	27.3	10/5/2004 22:46	26.601	10/6/2004 22:46	64.501	10/7/2004 22:46	74.801
10/1/2004 23:01	31	10/2/2004 23:01	22.8	10/3/2004 23:01	21	10/4/2004 23:01	25.101	10/5/2004 23:01	24.601	10/6/2004 23:01	59.701	10/7/2004 23:01	70.901
10/1/2004 23:16	31	10/2/2004 23:16	22.701	10/3/2004 23:16	29.8	10/4/2004 23:16	26.701	10/5/2004 23:16	26.5	10/6/2004 23:16	69.301	10/7/2004 23:16	75.901
10/1/2004 23:31	39.8	10/2/2004 23:31	23.201	10/3/2004 23:31	28.3	10/4/2004 23:31	27.3	10/5/2004 23:31	27.201	10/6/2004 23:31	57.3	10/7/2004 23:31	76.001
10/1/2004 23:46	140.701	10/2/2004 23:46	23.201	10/3/2004 23:46	38	10/4/2004 23:46	26.201	10/5/2004 23:46	25.4	10/6/2004 23:46	61.5	10/7/2004 23:46	72.301
10/2/2004 0:01	46.901	10/3/2004 0:01	24.101	10/4/2004 0:01	50.901	10/5/2004 0:01	22.601	10/6/2004 0:01	23.101	10/7/2004 0:01	59.3	10/8/2004 0:01	69.001
10/2/2004 0:16	38.5	10/3/2004 0:16	22.8	10/4/2004 0:16	38.3	10/5/2004 0:16	26.4	10/6/2004 0:16	24.201	10/7/2004 0:16	62.8	10/8/2004 0:16	70.801
10/2/2004 0:31	38.5	10/3/2004 0:31	23	10/4/2004 0:31	61.6	10/5/2004 0:31	23.5	10/6/2004 0:31	26.101	10/7/2004 0:31	73.401	10/8/2004 0:31	63.201
10/2/2004 0:46	57.3	10/3/2004 0:46	28	10/4/2004 0:46	35.3	10/5/2004 0:46	24.101	10/6/2004 0:46	24.8	10/7/2004 0:46	55.8	10/8/2004 0:46	68.401
10/2/2004 1:01	51.5	10/3/2004 1:01	40.5	10/4/2004 1:01	1078.1	10/5/2004 1:01	23.101	10/6/2004 1:01	28	10/7/2004 1:01	50.401	10/8/2004 1:01	59.8
10/2/2004 1:16	36.901	10/3/2004 1:16	18.8	10/4/2004 1:16	47	10/5/2004 1:16	24.4	10/6/2004 1:16	28.4	10/7/2004 1:16	49.3	10/8/2004 1:16	55.5
10/2/2004 1:31	38.5	10/3/2004 1:31	23.601	10/4/2004 1:31	39.1	10/5/2004 1:31	25.701	10/6/2004 1:31	26	10/7/2004 1:31	50.8	10/8/2004 1:31	64.801
10/2/2004 1:46	41.401	10/3/2004 1:46	23.5	10/4/2004 1:46	39.8	10/5/2004 1:46	20.4	10/6/2004 1:46	25.8	10/7/2004 1:46	43.5	10/8/2004 1:46	57.201
10/2/2004 2:01	36.1	10/3/2004 2:01	26.3	10/4/2004 2:01	93.001	10/5/2004 2:01	22.3	10/6/2004 2:01	22.9	10/7/2004 2:01	46.201	10/8/2004 2:01	58.6
10/2/2004 2:16	51.6	10/3/2004 2:16	24.8	10/4/2004 2:16	40.8	10/5/2004 2:16	19.701	10/6/2004 2:16	27.701	10/7/2004 2:16	52.901	10/8/2004 2:16	56.5
10/2/2004 2:31	39.201	10/3/2004 2:31	26	10/4/2004 2:31	49.3	10/5/2004 2:31	18.9	10/6/2004 2:31	25.701	10/7/2004 2:31	48	10/8/2004 2:31	59.401
10/2/2004 2:46	37.401	10/3/2004 2:46	23.5	10/4/2004 2:46	42.701	10/5/2004 2:46	20.9	10/6/2004 2:46	26.8	10/7/2004 2:46	53.3	10/8/2004 2:46	60.1
10/2/2004 3:01	39.6	10/3/2004 3:01	25.201	10/4/2004 3:01	41.3	10/5/2004 3:01	18.701	10/6/2004 3:01	32.901	10/7/2004 3:01	45.1	10/8/2004 3:01	61.201
10/2/2004 3:16	32.5	10/3/2004 3:16	26.5	10/4/2004 3:16	41.3	10/5/2004 3:16	19.8	10/6/2004 3:16	25.3	10/7/2004 3:16	47.8	10/8/2004 3:16	61.201
10/2/2004 3:31	36	10/3/2004 3:31	22	10/4/2004 3:31	47.6	10/5/2004 3:31	19.5	10/6/2004 3:31	30.9	10/7/2004 3:31	48	10/8/2004 3:31	60.3
10/2/2004 3:46	37.401	10/3/2004 3:46	34.701	10/4/2004 3:46	1072.7	10/5/2004 3:46	21.9	10/6/2004 3:46	21.9	10/7/2004 3:46	41.8	10/8/2004 3:46	65.201
10/2/2004 4:01	37.401	10/3/2004 4:01	25.5	10/4/2004 4:01	53.3	10/5/2004 4:01	15.3	10/6/2004 4:01	24.5	10/7/2004 4:01	38.5	10/8/2004 4:01	64.501
10/2/2004 4:16	41.701	10/3/2004 4:16	26.3	10/4/2004 4:16	40.1	10/5/2004 4:16	14.101	10/6/2004 4:16	27.8	10/7/2004 4:16	44.3	10/8/2004 4:16	79.001
10/2/2004 4:31	42.8	10/3/2004 4:31	23.101	10/4/2004 4:31	48.5	10/5/2004 4:31	14.4	10/6/2004 4:31	25.5	10/7/2004 4:31	289.9	10/8/2004 4:31	69.401
10/2/2004 4:46	39.1	10/3/2004 4:46	25.101	10/4/2004 4:46	77.001	10/5/2004 4:46	21	10/6/2004 4:46	23.201	10/7/2004 4:46	93.101	10/8/2004 4:46	65.801
10/2/2004 5:01	39.1	10/3/2004 5:01	28.201	10/4/2004 5:01	77.001	10/5/2004 5:01	22.601	10/6/2004 5:01	19	10/7/2004 5:01	46	10/8/2004 5:01	66.401
10/2/2004 5:16	34.6	10/3/2004 5:16	25.5	10/4/2004 5:16	43.6	10/5/2004 5:16	17	10/6/2004 5:16	24.3	10/7/2004 5:16	48.3	10/8/2004 5:16	71.701
10/2/2004 5:31	33.1	10/3/2004 5:31	34.5	10/4/2004 5:31	45.3	10/5/2004 5:31	19	10/6/2004 5:31	20.8	10/7/2004 5:31	48.901	10/8/2004 5:31	63.201
10/2/2004 5:46	39	10/3/2004 5:46	34.5	10/4/2004 5:46	109.001	10/5/2004 5:46	21.5	10/6/2004 5:46	24.3	10/7/2004 5:46	49.5	10/8/2004 5:46	65.901
10/2/2004 6:01	24.3	10/3/2004 6:01	30.701	10/4/2004 6:01	33.901	10/5/2004 6:01	18.201	10/6/2004 6:01	21.601	10/7/2004 6:01	51.901	10/8/2004 6:01	69.701
10/2/2004 6:16	43.1	10/3/2004 6:16	49.901	10/4/2004 6:16	47	10/5/2004 6:16	16.8	10/6/2004 6:16	20.701	10/7/2004 6:16	50.401	10/8/2004 6:16	72.501
10/2/2004 6:31	46.401	10/3/2004 6:31	27.201	10/4/2004 6:31	32.701	10/5/2004 6:31	18.8	10/6/2004 6:31	24.9	10/7/2004 6:31	53.201	10/8/2004 6:31	62.1
10/2/2004 6:46	34.901	10/3/2004 6:46	29.601	10/4/2004 6:46	37.3	10/5/2004 6:46	17.201	10/6/2004 6:46	24.3	10/7/2004 6:46	58.1	10/8/2004 6:46	62.401
10/2/2004 7:01	42.901	10/3/2004 7:01	35.6	10/4/2004 7:01	42.6	10/5/2004 7:01	20.101	10/6/2004 7:01	22.601	10/7/2004 7:01	59.201	10/8/2004 7:01	63.1
10/2/2004 7:16	34.5	10/3/2004 7:16	26.9	10/4/2004 7:16	29.5	10/5/2004 7:16	27	10/6/2004 7:16	23.5	10/7/2004 7:16	55.3	10/8/2004 7:16	68.801
10/2/2004 7:31	43.401	10/3/2004 7:31	25.8	10/4/2004 7:31	37.201	10/5/2004 7:31	17.4	10/6/2004 7:31	22.9	10/7/2004 7:31	52.401	10/8/2004 7:31	66.701
10/2/2004 7:46	36.901	10/3/2004 7:46	25.601	10/4/2004 7:46	33.901	10/5/2004 7:46	13.8	10/6/2004 7:46	20.701	10/7/2004 7:46	59.401	10/8/2004 7:46	63.1
10/2/2004 8:01	46.1	10/3/2004 8:01	22.9	10/4/2004 8:01	37.5	10/5/2004 8:01	29.9	10/6/2004 8:01	24.8	10/7/2004 8:01	54.901	10/8/2004 8:01	59.201
10/2/2004 8:16	46.1	10/3/2004 8:16	32.3	10/4/2004 8:16	37.5	10/5/2004 8:16	13.601	10/6/2004 8:16	22.5	10/7/2004 8:16	57.201	10/8/2004 8:16	64.001
10/2/2004 8:31	46.1	10/3/2004 8:31	23.101	10/4/2004 8:31	64.401	10/5/2004 8:31	12.4	10/6/2004 8:31	24.601	10/7/2004 8:31	63.3	10/8/2004 8:31	61
10/2/2004 8:46	30.701	10/3/2004 8:46	19	10/4/2004 8:46	64.401	10/5/2004 8:46	15.8	10/6/2004 8:46	22	10/7/2004 8:46	61.1	10/8/2004 8:46	64.001
10/2/2004 9:01	22.3	10/3/2004 9:01	20.5	10/4/2004 9:01	35.401	10/5/2004 9:01	15.2	10/6/2004 9:01	18.8	10/7/2004 9:01	60.3	10/8/2004 9:01	58.701
10/2/2004 9:16	38	10/3/2004 9:16	18.3	10/4/2004 9:16	33	10/5/2004 9:16	15.9	10/6/2004 9:16	21.101	10/7/2004 9:16	68.501	10/8/2004 9:16	65.901
10/2/2004 9:31	41.5	10/3/2004 9:31	20.8	10/4/2004 9:31	37.201	10/5/2004 9:31	13.2	10/6/2004 9:31	21.201	10/7/2004 9:31	70.801	10/8/2004 9:31	62.901
10/2/2004 9:46	28	10/3/2004 9:46	24.4	10/4/2004 9:46	30.601	10/5/2004 9:46	18.701	10/6/2004 9:46	29	10/7/2004 9:46	61.201	10/8/2004 9:46	66.201
10/2/2004 10:01	32	10/3/2004 10:01	18.3	10/4/2004 10:01	33	10/5/2004 10:01	15.601	10/6/2004 10:01	27.701	10/7/2004 10:01	60.201	10/8/2004 10:01	67.001
10/2/2004 10:16	36.401	10/3/2004 10:16	22.8	10/4/2004 10:16	32.701	10/5/2004 10:16	16.9	10/6/2004 10:16	29	10/7/2004 10:16	62.201	10/8/2004 10:16	70.901
10/2/2004 10:31	35	10/3/2004 10:31	19.101	10/4/2004 10:31	68.601	10/5/2004 10:31	19.601	10/6/2004 10:31	28.5	10/7/2004 10:31	101.901	10/8/2004 10:31	75.501
10/2/2004 10:46	36	10/3/2004 10:46	22.701	10/4/2004 10:46	382.5	10/5/2004 10:46	19.601	10/6/2004 10:46	29.601	10/7/2004 10:46	72.901	10/8/2004 10:46	80.701
10/2/2004 11:01	219.701	10/3/2004 11:01	23.4	10/4/2004 11:01	105.601	10/5/2004 11:01	18.3	10/6/2004 11:01	30.4	10/7/2004 11:01	65.301	10/8/2004 11:01	78.101
10/2/2004 11:16	48.401	10/3/2004 11:16	29.101	10/4/2004 11:16	29.201	10/5/2004 11:16	15.3	10/6/2004 11:16	29.8	10/7/2004 11:16	59.701	10/8/2004 11:16	67.901
10/2/2004 11:31	41.1	10/3/2004 11:31	25	10/4/2004 11:31	199.601	10/5/2004 11:31	60.5	10/6/2004 11:31	31.101	10/7/2004 11:31	57.8	10/8/2004 11:31	67.701
10/2/2004 11:46	36.6	10/3/2004 11:46	29.9	10/4/2004 11:46	1068.5	10/5/2004 11:46	66.201	10/6/2004 11:46	34.3	10/7/2004 11:46	67.201	10/8/2004 11:46	71.201
												10/8/2004 12:01	83.101

Turbidity
Downstream/Upstream Difference
(Downstream Minus Upstream)



Attachment 4

GW Partners
Lower Fox River - OU-1
04G007
TSS and Field Turbidity - Draft and Preliminary

Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID	Comments: Other
8/30/2004	13:47	19.8	19	25	6	912	Calm (0-5 mph)	1 RA 04 DEWT SW 1 - 912	Location 1 in SQL Database
8/30/2004	13:54	19.1	24	22	-2	902	Calm (0-5 mph)	1 RA 04 DEWT SW 2 - 902	Location 1 in SQL Database
8/30/2004	14:01	20.1	18	23	5	905	Calm (0-5 mph)	1 RA 04 DEWT SW 3 - 905	Location 1 in SQL Database
8/31/2004	19:32	12.0	13.5	15	1.5	912	Calm (0-5 mph)	1 RA 04 DEWT SW 4 - 912	Location 1 in SQL Database
8/31/2004	19:40	18.2	23	25	2	902	Calm (0-5 mph)	1 RA 04 DEWT SW 5 - 902	Location 1 in SQL Database
				24				1 RA 04 DEWT SW 5Dup - 902	
8/31/2004	19:47	12.8	13.5	17	3.5	905	Calm (0-5 mph)	1 RA 04 DEWT SW 6 - 905	Location 1 in SQL Database
				<1.0				1 RA 04 DEWT SW 7RINSE - 905	
9/1/2004	12:56	24.2	23	28	5	912	Calm (0-5 mph)	1 RA 04 DEWT SW 8 - 912	Location 1 in SQL Database
9/1/2004	13:08	51.1	39	36	-3	902	Calm (0-5 mph)	1 RA 04 DEWT SW 9 - 902	Location 1 in SQL Database
9/1/2004	13:15	22.8	21.6	25	3.4	905	Calm (0-5 mph)	1 RA 04 DEWT SW 10 - 905	Location 1 in SQL Database
9/2/2004	12:16	22.4	23	26	3	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 11 - 912	Location 1 in SQL Database
9/2/2004	12:31	34.4	35	41	6	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 12 - 902	Location 1 in SQL Database
9/2/2004	12:44	33.3	30	31	1	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 13 - 905	Location 1 in SQL Database
9/3/2004	11:55	21.1	18	20	2	912	Calm (0-10 mph)	1 RA 04 DEWT SW 14 - 912	Location 1 in SQL Database
9/3/2004	12:05	39.7	30	28	-2	902	Calm (0-10 mph)	1 RA 04 DEWT SW 15 - 902	Location 1 in SQL Database
				28				1 RA 04 DEWT SW 15Dup - 902	
9/3/2004	12:13	16.6	18	20	2	905	Calm (0-10 mph)	1 RA 04 DEWT SW 16 - 905	Location 1 in SQL Database
				<1.0				1 RA 04 DEWT SW 16RINSE - 905	
9/7/2004	7:22	20	32.6		NA	902	Calm (0-10 mph)	NA	Location 1 in SQL Database
9/7/2004	7:26	20.7	33		NA	905	Calm (0-10 mph)	NA	Location 1 in SQL Database
9/7/2004	7:51	15.5	28.5		NA	912	Calm (0-10 mph)	NA	Location 1 in SQL Database
9/7/2004	11:52	18.7		24	5.3	912	Calm (0-10 mph)	1 RA 04 DEWT SW 18 - 912	Location 1 in SQL Database
9/7/2004	12:07	25		29	4	902	Calm (0-10 mph)	1 RA 04 DEWT SW 19 - 902	Location 1 in SQL Database
9/7/2004	12:15	22.7		23	0.3	905	Calm (0-10 mph)	1 RA 04 DEWT SW 20 - 905	Location 1 in SQL Database
9/8/2004	11:39	51.3		58	6.7	912	Windy (15-20 mph)	1 RA 04 DEWT SW 21 - 912	Location 1 in SQL Database
9/8/2004	11:50	36		42	6	902	Windy (15-20 mph)	1 RA 04 DEWT SW 22 - 902	Location 1 in SQL Database
9/8/2004	11:56	39.9		48	8.1	905	Windy (15-20 mph)	1 RA 04 DEWT SW 23 - 905	Location 1 in SQL Database
9/9/2004	11:11	31.8	33	25	-8	912	Calm (0-5 mph)	1 RA 04 DEWT SW 24 - 912	Location 2 in SQL Database
9/9/2004	11:20	24	26	25	-1	902	Calm (0-5 mph)	1 RA 04 DEWT SW 25 - 902	Location 2 in SQL Database
9/9/2004	11:35	23.2	26	24	-2	905	Calm (0-5 mph)	1 RA 04 DEWT SW 26 - 905	Location 2 in SQL Database
9/10/2004	9:36	23.5	26	21	-5	912	Windy (10-20 mph)	1 RA 04 DEWT SW 27 - 912	Location 3 in SQL Database
9/10/2004	9:48	1100	35	22	-13	902	Windy (10-20 mph)	1 RA 04 DEWT SW 28 - 902	Location 3, Telemetric reading appears unreal
				23				1 RA 04 DEWT SW 28Dup - 902	
9/10/2004	10:00	657	30	24	-6	905	Windy (10-20 mph)	1 RA 04 DEWT SW 29 - 905	Location 3, Telemetric reading appears unreal
				<1.0				1 RA 04 DEWT SW 30RINSE - 905	
9/11/2004	9:43	23	30	21	-9	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 31 - 912	Location 4 in SQL Database
9/11/2004	9:53	21.7	32	24	-8	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 32 - 902	Location 4 in SQL Database
9/11/2004	10:01	44.1	33	27	-6	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 33 - 905	Location 4 in SQL Database
9/14/2004	10:43	18.8	20.5	23	2.5	912	Windy (10-20 mph)	1 RA 04 000A SW 34 - 912	Location 5 in SQL Database
9/14/2004	10:52	20	18.6	22	3.4	902	Windy (10-20 mph)	1 RA 04 000A SW 35 - 902	Location 5 in SQL Database
9/14/2004	11:01	16	16.8	21	4.2	905	Windy (10-20 mph)	1 RA 04 000A SW 36 - 905	Location 5 in SQL Database
9/15/2004	11:16	36.9	35.9	16	-19.9	912	Windy (15-25 mph)	1 RA 04 000A SW 37 - 912	Location 6 in SQL Database
9/15/2004	11:31	23.9	23	26	3	902	Windy (15-25 mph)	1 RA 04 000A SW 38 - 902	Location 6 in SQL Database
9/15/2004	11:45	24.9	25.5	26	0.5	905	Windy (15-25 mph)	1 RA 04 000A SW 39 - 905	Location 6 in SQL Database
9/16/2004	9:30	36	36	44	8	912	Breezy (5-15 mph)	1 RA 04 000A SW 40 - 912	Location 6 in SQL Database
9/16/2004	9:55	26	26	28	2	902	Breezy (5-15 mph)	1 RA 04 000A SW 41 - 902	Location 6 in SQL Database
				27				1 RA 04 000A SW 41Dup - 902	
9/16/2004	10:03	34.5	34.5	34	-0.5	905	Breezy (5-15 mph)	1 RA 04 000A SW 42 - 905	Location 6 in SQL Database
				<1.0				1 RA 04 000A SW 43RINSE - 905	
9/17/2004	10:32	18.2	36	15	-21	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 44 - 912	Location 6 in SQL Database
9/17/2004	10:58	17.6	17	16	-1	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 45 - 902	Location 6 in SQL Database
9/17/2004	11:08	15.3	17	14	-3	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 46 - 905	Location 6 in SQL Database
9/20/2004	12:57	39.2	36	45	9	912	Breezy (5-15 mph)	1 RA 04 000A SW 47 - 912	Location 6 in SQL Database
9/20/2004	12:31	32.4	37	35	-2	902	Breezy (5-15 mph)	1 RA 04 000A SW 48 - 902	Location 6 in SQL Database
				35				1 RA 04 000A SW 48Dup - 902	
9/20/2004	12:22	31.7	36	36	0	905	Breezy (5-15 mph)	1 RA 04 000A SW 49 - 905	Location 6 in SQL Database
				1.2				1 RA 04 000A SW 50RINSE - 905	
9/21/2004	10:08	39.4	38	40	2	905	Breezy (5-15 mph)	1 RA 04 000A SW 51 - 905	Location 7 in SQL Database
9/21/2004	10:21	35.4	42	38	-4	902	Breezy (5-15 mph)	1 RA 04 000A SW 52 - 902	Location 7 in SQL Database
9/21/2004	10:35	41.7	36	52	16	912	Breezy (5-15 mph)	1 RA 04 000A SW 53 - 912	Location 7 in SQL Database
9/22/2004	10:13	21.8	24	22	-2	905	Calm (0-5 mph)	1 RA 04 000A SW 54 - 905	Location 7 in SQL Database
9/22/2004	10:23	21.3	23	24	1	902	Calm (0-5 mph)	1 RA 04 000A SW 55 - 902	Location 7 in SQL Database
9/22/2004	10:38	18.5	36	28	-8	912	Calm (0-5 mph)	1 RA 04 000A SW 56 - 912	Location 7 in SQL Database

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

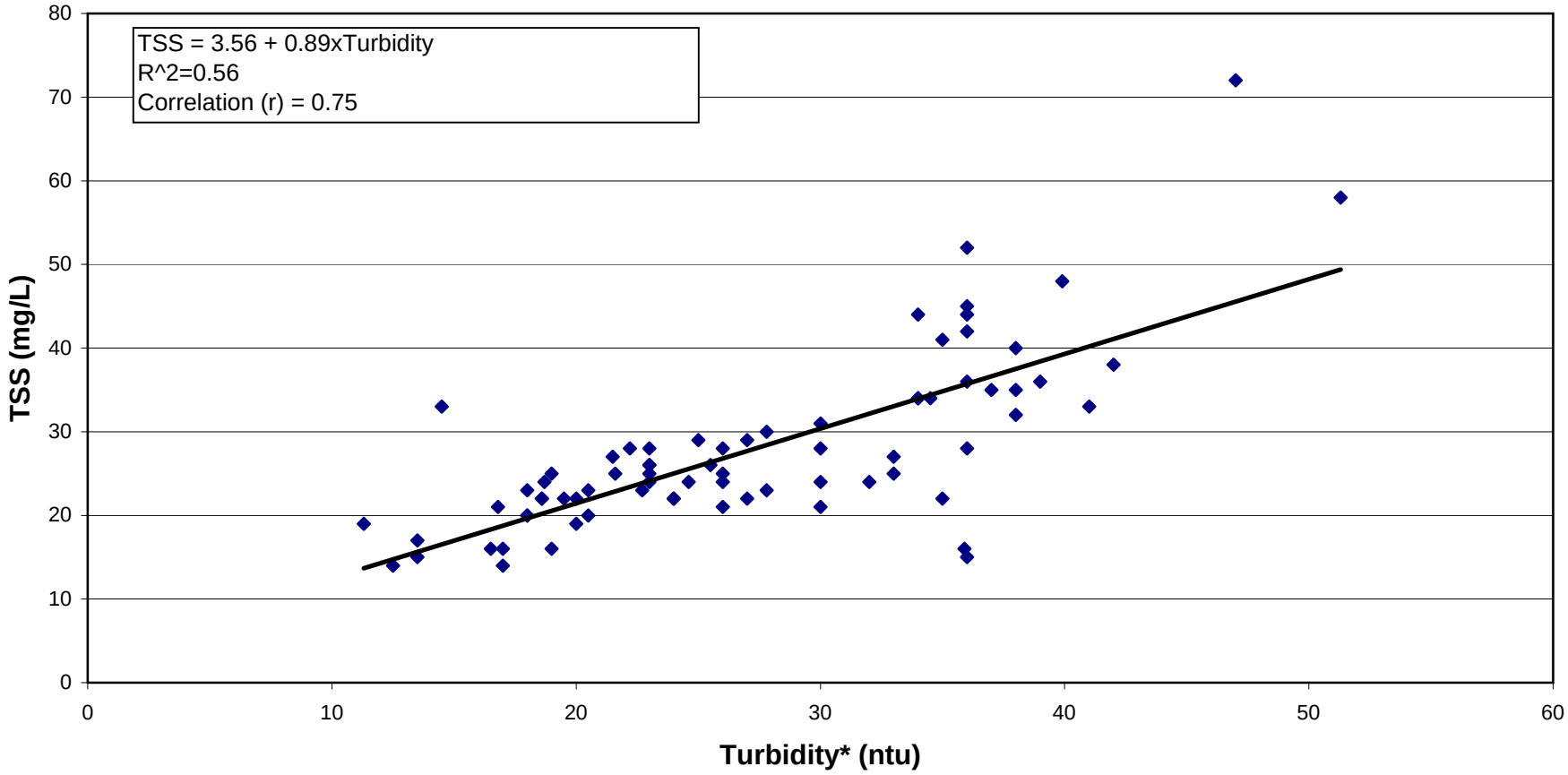
Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID	Comments: Other
9/23/2004	11:11	15.1	19	16	-3	905	Breezy (5-15 mph)	1 RA 04 000A SW 57 - 905	Location 7 in SQL Database
9/23/2004	11:23	31.7	20	19	-1	902	Breezy (5-15 mph)	1 RA 04 000A SW 58 - 902	Location 7 in SQL Database
9/23/2004	12:17	26.6	27	29	2	912	Breezy (5-15 mph)	1 RA 04 000A SW 59 - 912	Location 7 in SQL Database
9/24/2004	9:35	18.2	19.5	22	2.5	905	Calm (0-5 mph)	1 RA 04 000A SW 60 - 905	Location 8 in SQL Database
9/24/2004	9:44	34.8	27.8	30	2.2	902	Calm (0-5 mph)	1 RA 04 000A SW 61 - 902	Location 8 in SQL Database
				30				1 RA 04 000A SW 61Dup - 902	
9/24/2004	10:02	39.1	47	72	25	912	Calm (0-5 mph)	1 RA 04 000A SW 62 - 912	Location 8 in SQL Database
				1.3				1 RA 04 000A SW 63RINSE - 912	
9/27/2004	11:10	11.6	12.5	14	1.5	905	Calm (0-5 mph)	1 RA 04 000A SW 64 - 905	Location 8 in SQL Database
9/27/2004	11:21	53.1	16.5	16	-0.5	902	Calm (0-5 mph)	1 RA 04 000A SW 65 - 902	Location 8 in SQL Database
9/27/2004	11:36	14.3	20	22	2	912	Calm (0-5 mph)	1 RA 04 000A SW 66 - 912	Location 8 in SQL Database
9/27/2004	11:46	11.6			NA	902	Calm (0-5 mph)	NA	Location 8 in SQL Database
9/27/2004	13:01	17.2			NA	902	Calm (0-5 mph)	NA	Location 8 in SQL Database
9/28/2004	11:31	33.9	38	32	-6	905	Windy (15-20 mph)	1 RA 04 000A SW 67 - 905	Location 8 in SQL Database
9/28/2004	11:38	38.7	41	33	-8	902	Windy (15-20 mph)	1 RA 04 000A SW 68 - 902	Location 8 in SQL Database
				33				1 RA 04 000A SW 68Dup - 902	
9/28/2004	11:48	33.4	34	44	10	912	Windy (15-20 mph)	1 RA 04 000A SW 69 - 912	Location 8 in SQL Database
				1.2				1 RA 04 000A SW 70RINSE - 912	
9/29/2004	11:38	17.3	20.5	20	-0.5	905	Calm (0-5 mph)	1 RA 04 000A SW 71 - 905	Location 8 in SQL Database
9/29/2004	11:46	19.3	27.8	23	-4.8	902	Calm (0-5 mph)	1 RA 04 000A SW 72 - 902	Location 8 in SQL Database
9/29/2004	12:22	14.2	14.5	33	18.5	912	Calm (0-5 mph)	1 RA 04 000A SW 73 - 912	Location 8 in SQL Database
9/29/2004	12:31	14.3			NA	902	Calm (0-5 mph)	NA	Location 8 in SQL Database
9/30/2004	10:20	24.6		24	-0.6	905	Calm (0-5 mph)	1 RA 04 000A SW 74 - 905	Location 8 in SQL Database
9/30/2004	10:30	18.6		22	3.4	902	Calm (0-5 mph)	1 RA 04 000A SW 75 - 902	Location 8 in SQL Database
9/30/2004	10:50	11.3		19	7.7	912	Calm (0-5 mph)	1 RA 04 000A SW 76 - 912	Location 8 in SQL Database
10/1/2004	10:34	24.9	27	22	-5	905	Breezy (10-15 mph)	1 RA 04 000A SW 77 - 905	Location 8 in SQL Database
10/1/2004	10:45	31.8	38	35	-3	902	Breezy (10-15 mph)	1 RA 04 000A SW 78 - 902	Location 8 in SQL Database
				34				1 RA 04 000A SW 78Dup - 902	
10/1/2004	11:03	34	34	34	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 79 - 912	Location 8 in SQL Database
				<1.0				1 RA 04 000A SW 80RINSE - 912	
10/4/2004	10:21	31.2	21.5	27	5.5	905	Breezy (10-15 mph)	1 RA 04 000A SW 81 - 905	Location 8 in SQL Database
10/4/2004	10:27	27.5	22.2	28	5.8	902	Breezy (10-15 mph)	1 RA 04 000A SW 82 - 902	Location 8 in SQL Database
10/4/2004	10:58	32.7	34	34	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 83 - 912	Location 8 in SQL Database
10/6/2004	9:09	22	24.5			905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 84 - 905	Location 9 in SQL Database
10/6/2004	9:24	22	25.5			902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 85 - 902	Location 9 in SQL Database
								1 RA 04 000A SW 85Dup - 902	
10/6/2004	9:49	26	29			912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 86 - 912	Location 9 in SQL Database
								1 RA 04 000A SW 87RINSE - 912	
10/7/2004	9:55	24	24.6			905	Calm (0-7 mph)	1 RA 04 000A SW 88 - 905	Location 9 in SQL Database
10/7/2004	10:11	23	19.9			902	Calm (0-7 mph)	1 RA 04 000A SW 89 - 902	Location 9 in SQL Database
10/7/2004	10:34	70	72.9			912	Calm (0-7 mph)	1 RA 04 000A SW 90 - 912	Location 9 in SQL Database
10/8/2004	11:24	85	75.5			905	Calm (0-8 mph)	1 RA 04 000A SW 91 - 905	Location 9 in SQL Database
10/8/2004	11:38	66	66.6			902	Calm (0-8 mph)	1 RA 04 000A SW 92 - 902	Location 9 in SQL Database
10/8/2004	11:54	91	83.1			912	Calm (0-8 mph)	1 RA 04 000A SW 93 - 912	Location 9 in SQL Database
10/11/2004	10:36	46	45.9			905	Calm (0-5 mph)	1 RA 04 000A SW 94 - 905	Location 9 in SQL Database
10/11/2004	10:58	43	40			902	Calm (0-5 mph)	1 RA 04 000A SW 95 - 902	Location 9 in SQL Database
10/11/2004	11:18	90	72.1			912	Calm (0-5 mph)	1 RA 04 000A SW 96 - 912	Location 9 in SQL Database

[1] Sampling time approximate - readings collected on regular 15 minute intervals.

[2] Hand-held turbidity used in difference if available.

Data presented are Draft and Preliminary. These data have not undergone QA procedures and should not be viewed as final.

TSS/Turbidity Correlation
Data presented are Draft and Preliminary



Note: Includes data collected 8/30/04 - 10/04/04

*Data are hand held turbidity readings when available, otherwise telemetric reading sampled closest in time

Turbidity_TSS_Corr.xls

Attachment 5

GW Partners
Lower Fox River - OU-1
04G007

Effluent Results - Draft and Preliminary

Date	Sample ID	TSS (mg/L)	BOD (mg/L)	Daily Flow (million gallons)	Ammonia Nitrogen (mg/L)	Total PCBs (ug/L)
9/3/04	IRA04 DEWT EF1	21	-	-	<0.32	<0.26
9/7/04	IRA04 DEWT EF2	9.0	-	-	0.67	<0.24
9/9/04	IRA04 DEWT EF3	19	-	-	3.1	<0.24
9/10/04	IRA04 DEWT EF4	24	-	-	4.5	<0.32
9/11/04	IRA04 DEWT EF5	16	-	-	2.9	<0.25
9/13/04	IRA04 DEWT EF6	12	-	-	4.9	<0.26
9/15/04	IRA04 DEWT EF7	87	-	-	6.7	<0.25
9/16/04	IRA04 DEWT EF8	40	16	0.8	4.4	<0.25
9/17/04	IRA04 DEWT EF9	33	12	-	3.2	<0.25
9/17/04 Dup.	IRA04 DEWT EF9 DUP	31	-	-	3.1	-
9/20/04	IRA04 DEWT EF10	11	3.1	1.1	2.2	<0.26
9/20/04	IRA04 DEWT EF10 Dup	-	-	-	-	<0.25
9/21/04	IRA04 DEWT EF11	17	3.2	0.3	1.8	-
9/21/04	IRA04 DEWT EF11 Dup	-	3.2	-	-	-
9/22/04	IRA04 DEWT EF12	17	6.6	0.4	1.5	-
9/23/04	IRA04 DEWT EF13	20	3.4	1.0	1.5	-
9/24/04	IRA04 DEWT EF14	18	3.1	0.4	1.4	-
9/25/04	IRA04 DEWT EF15	19	<2.0	-	1.5	-
9/27/04	IRA04 DEWT EF16	10	<2.0	0.6	-	-
9/28/04	IRA04 DEWT EF17	11	4.2	0.7	-	-
9/29/04	IRA04 DEWT EF18	13	-	0.6	-	-
9/29/04	IRA04 DEWT EF18 Dup	10	-	-	-	-
9/30/04	IRA04 DEWT EF19	11	5.4	0.5	-	-
10/1/04	IRA04 DEWT EF20	12	5.9	-	-	-
10/2/04	IRA04 DEWT EF21	23	-	-	-	-
10/5/04	IRA04 DEWT EF22	20	7.7	-	-	-
Performance Expectation		5[a], 10[b]	10	1.2 - 1.7 (mgd)		< 0.1 - 0.5

[a] Monthly average

[b] Daily maximum

Data received by 10/11/04

Data presented are Draft and Preliminary.

These data have not undergone QA procedures and should not be viewed as final.

GW Partners, LLC

Lower Fox River Operable Unit 1

Summary of Air Sampling Results Calculated through October 12, 2004

All Results Reported in Total PCBs[1]

Dates	Sampling Round	Location ID	Sample ID	Laboratory Method[2]	Laboratory Reporting Limit (Total µg of PCBs)	Laboratory Results (Total µg of PCBs)[3]	Total Air Volume Sampled (Total m^3)		Calculated PCB Conc'n ($\mu g/m^3$)[4]
9-23-04 to 9-26-04	13	GWP-1	PCB-01-13	EPA TO-4A	0.5	ND	1125.347	≤	0.00044
9-23-04 to 9-26-04	13	GWP-2	PCB-02-13	EPA TO-4A	0.5	ND	1135.905	≤	0.00044
9-23-04 to 9-26-04	13	GWP-3	PCB-03-13	EPA TO-4A	0.5	ND	1129.01	≤	0.00044
9-23-04 to 9-26-04	13	GWP-4	PCB-04-13	EPA TO-4A	0.5	ND	1151.349	≤	0.00043
9-23-04 to 9-26-04	13	N/A	Field Blank 5	EPA TO-4A	0.5	ND	N/A		N/A
9-26-04 to 9-29-04	14	GWP-1	PCB-01-14	EPA TO-4A	0.5	ND	1110.487	≤	0.00045
9-26-04 to 9-29-04	14	GWP-2	PCB-02-14	EPA TO-4A	0.5	ND	1104.975	≤	0.00045
9-26-04 to 9-29-04	14	GWP-3	PCB-03-14	EPA TO-4A	0.5	ND	1072.882	≤	0.00047
9-26-04 to 9-29-04	14	GWP-4	PCB-04-14	EPA TO-4A	0.5	ND	1091.598	≤	0.00046

Notes:

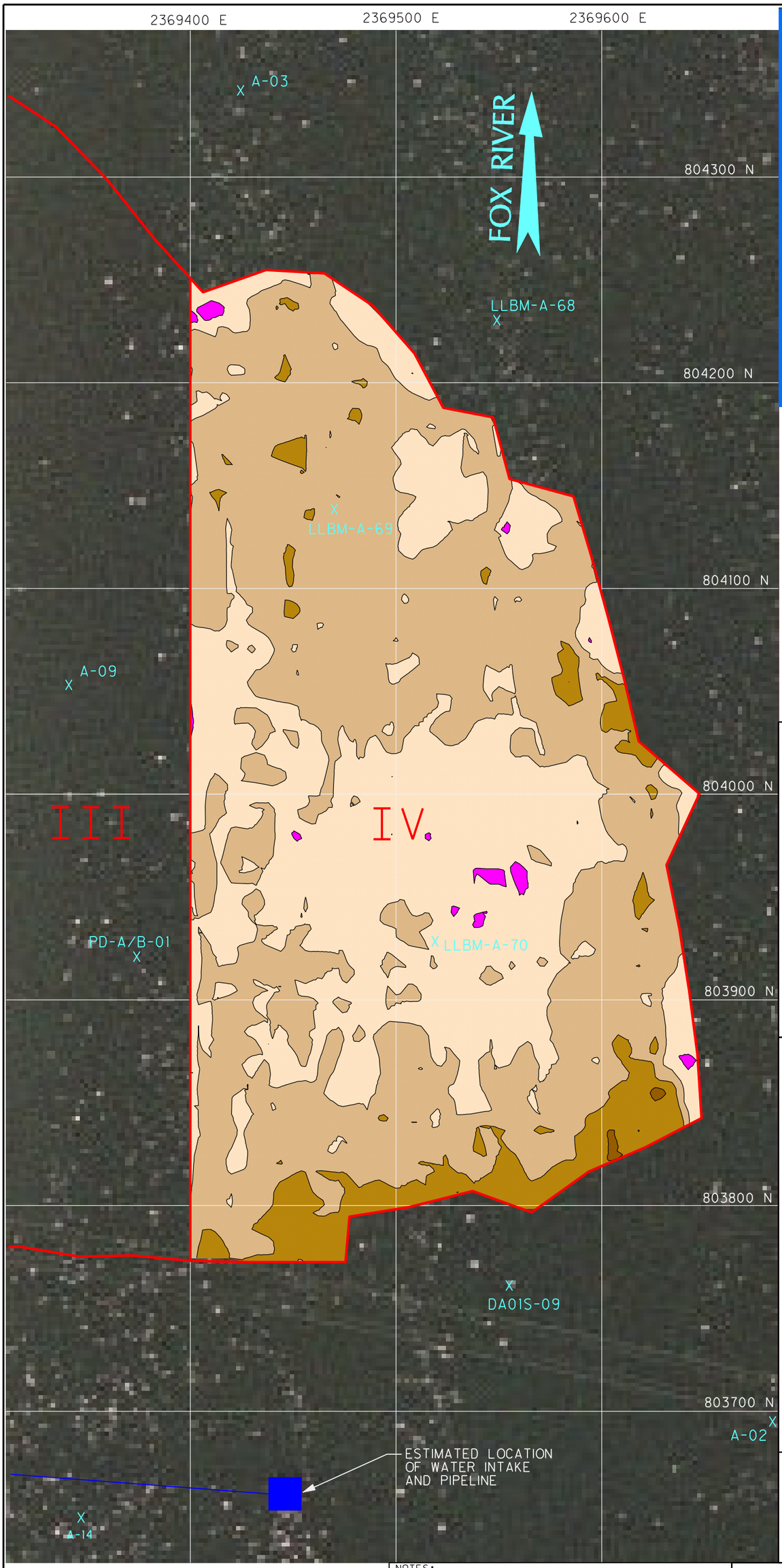
1. The laboratory reports the results in terms of significant Aroclors. Included are Aroclors 1016, 1221, 1232, 1242, 1248, 1254 and 1260. This table reports total PCB Aroclors and calculates a total PCB ambient air concentration.

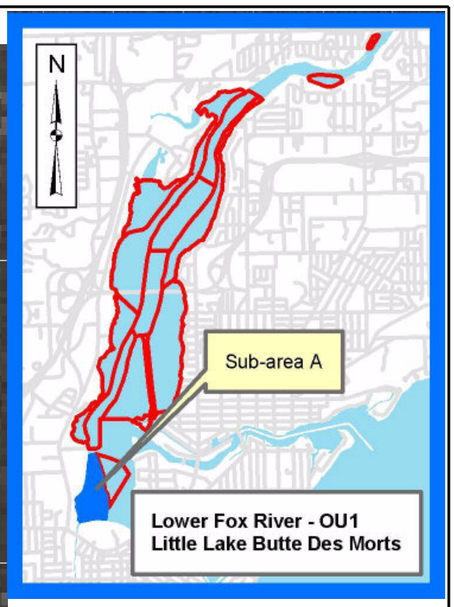
2. EPA Compendium Method TO-4A is for determination of pesticides and polychlorinated biphenyls in ambient air using high volume polyurethane foam (PUF) sampling followed by gas chromoatographic/multi-detector detection (GC/MD).

3. ND = "None Detected". Given the laboratory reporting limit is 0.5 ug/sample, the concentration is calculated based on this value and reported as less than this concentration.

4. As a frame of reference, the airborne concentrations observed here could be compared to the airborne concentrations observed during the previous 56/57 Demonstration Project in 1999. During that study, concentrations collected within the property boundaries of the remediation area ranged from 0.0013 to 0.0216 ug/m^3 during dredging. Baseline concentrations, obtained prior to this same dredging project ranged from 0.0003 to 0.0016 ug/m^3.

Attachment 6





N

SEDIMENT REMAINING

REGION IV INSIDE LIMITS
ABOVE 1 PPM RAL
1 C.Y.

SEDIMENT OVERCUT

REGION IV INSIDE LIMITS
BELOW 1 PPM RAL
2,030 C.Y.

SEDIMENT REMOVAL

REGION IV INSIDE LIMITS
3,660 C.Y.

REGION IV INSIDE & OUTSIDE LIMITS
4,280 C.Y.

LEGEND

SEDIMENT REMOVAL

- 0.0 - 0.17' REMAINING ABOVE 1 PPM RAL (.5% OF AREA)
- 0.0 - 0.5' CUT BELOW 1 PPM RAL (36% OF AREA)
- 0.5 - 1.0' CUT BELOW 1 PPM RAL (55.5% OF AREA)
- 1.0 - 1.5' CUT BELOW 1 PPM RAL (7% OF AREA)
- 1.5 - 1.9' CUT BELOW 1 PPM RAL (1% OF AREA)

BA-SD10b X CORING SAMPLE LOCATIONS

IV 2004 REMOVAL REGION

0 25' 50' 75' 100'
BAR SCALE

Foth & Van Dyke

NOTES:

1. SEDIMENT ISOPACH CREATED BY USING GMS DERIVED 1 PPM DREDGE CONTOURS VS BRENNAN'S OCTOBER 5, 2004 SURVEY.
2. SEDIMENT REMOVAL VOLUMES OBTAINED USING BRENNAN'S SEPTEMBER 4 AND OCTOBER 5, 2004 SURVEYS.
3. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
4. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
5. SUB-AREA A DELINEATION FROM 2003 PRE-DESIGN SAMPLING PLAN.

DRAFT

GW PARTNERS

FIGURE 1

LOWER FOX RIVER
SUB-AREA A - REGION IV
POST DREDGE ISOPACH MAP

Prepared By: Foth & Van Dyke	Date: OCT. 6, 2004
Drawn By: JRB2	Checked By: DMR	Scope: 04G007

I:\02g005\NAD 83 - NAVD 88 DATUM\GMS\Deposit-A\2g05fig30.3d
10/7/2004 jrb2

DRAFT

Foth & Van Dyke

Memorandum

October 19, 2004

TO: Ben Hung, WDNR
Greg Hill, WDNR
Gary Kincaid, WDNR
Jim Hahnenberg, EPA
Boldt Oversight Team

CC: Bill Hartman, GW Partners
Amie Obermeier, GW Partners
Sherman LaViolette, CH2MHill
Mike Jury, CH2MHill
Tara Konkle, Foth & Van Dyke
Steve Laszewski, Foth & Van Dyke

FR: Jim Hutchison, Foth & Van Dyke

RE: OU1 2004 Environmental Monitoring Data – October 8 through October 15, 2004

Attached are monitoring data for the one week period beginning October 8, 2004 and ending October 15, 2004 for the environmental monitoring activities pursuant to the 2004 RA Work Plan, May, 2004 and subsequent addendum. If you have any questions or comments please contact Jim Hutchison at (920) 497 2500 or at jhutchison@foth.com. In addition to the weekly data summary, project data will be provided in a database format following completion of the 2004 RA work.

Data presented are draft and preliminary. These data have not undergone QA procedures and should not be viewed as final.

Air Monitoring Data:

Summary: Air sampling at the four meter locations was initiated on August 7, 2004. Sampling consisted of a 72 hour sampling event per week. Continuous sampling began on August 30, 2004. PCBs have not been detected to date.

Attachment 1- Summary of Air Sampling Results 9/29/04 through 10/5/04
Attachment 2- Monitor Location Sketch

Surface Water Data:

Summary: River turbidity meters began operation on August 20, 2004 monitoring river turbidity (NTUs) every 15 minutes at three locations. The meters are located upstream (meter 912), downstream (meter 902) and far downstream (meter 905) of dredging activities. Generally the data show that the downstream turbidity has been within acceptable limits of the upstream turbidity. **Please note the turbidity data graphs indicate dredging and no dredging times.**

Attachment 3- Graphs and Tabulation of Turbidity Data for Upstream, Downstream, Far Downstream and Upstream/Downstream Difference Graph

Field Surface Water Data

Summary: Field data includes hand held turbidity measurements and TSS sampling taken at the turbidity monitoring stations between August 30, 2004 and October 18, 2004. The correlation between TSS and turbidity to date shows a correlation coefficient of 0.83.

Attachment 4-TSS and Field Turbidity Data and TSS/Turbidity Correlation

Water Treatment Data:

Summary: The effluent water is being analyzed for TSS, PCBs, Ammonia and BOD.

Attachment 5- Effluent water results

Post-Dredge Bathymetric QA Summary

Summary: QA bathymetric data for Region IV of Deposit A was reported in the October 12, 2004 report.

Attachment: None

Sediment Sample Verification:

Summary: Post dredging sediment samples collection began on October 11 and finished on October 12, 2004 in Region IV of Deposit A. Laboratory test results are pending.

Attachment: 6 - Sediment Sample Location Map – Region IV of Deposit A

Sand Placement Verification:

Summary: Sand placement has not been initiated to date

Attachment: None

Note: Transmitted when available, as these data will be obtained less frequently then other project environmental data.

Attachment 1

GW Partners, LLC

Lower Fox River Operable Unit 1

Summary of Air Sampling Results Calculated through October 19, 2004

All Results Reported in Total PCBs[1]

Dates	Sampling Round	Location ID	Sample ID	Laboratory Method[2]	Laboratory Reporting Limit (Total µg of PCBs)	Laboratory Results (Total µg of PCBs)[3]	Total Air Volume Sampled (Total m^3)		Calculated PCB Conc'n ($\mu g/m^3$)[4]
9-29-04 to 10-2-04	15	GWP-1	PCB-01-15	EPA TO-4A	0.5	ND	1073.67	≤	0.00047
9-29-04 to 10-2-04	15	GWP-2	PCB-02-15	EPA TO-4A	0.5	ND	1089.16	≤	0.00046
9-29-04 to 10-2-04	15	GWP-3	PCB-03-15	EPA TO-4A	0.5	ND	1064.25	≤	0.00047
9-29-04 to 10-2-04	15	GWP-4	PCB-04-15	EPA TO-4A	0.5	ND	1083.42	≤	0.00046
10-2-04 to 10-5-04	16	GWP-1	PCB-01-16	EPA TO-4A	0.5	ND	1135.56	≤	0.00044
10-2-04 to 10-5-04	16	GWP-2	PCB-02-16	EPA TO-4A	0.5	ND	1130.51	≤	0.00044
10-2-04 to 10-5-04	16	GWP-3	PCB-03-16	EPA TO-4A	0.5	ND	1107.97	≤	0.00045
10-2-04 to 10-5-04	16	GWP-4	PCB-04-16	EPA TO-4A	0.5	ND	1115.93	≤	0.00045
10-2-04 to 10-5-04	16	N/A	Field Blank 6	EPA TO-4A	0.5	ND	N/A		N/A

Notes:

1. The laboratory reports the results in terms of significant Aroclors. Included are Aroclors 1016, 1221, 1232, 1242, 1248, 1254 and 1260. This table reports total PCB Aroclors and calculates a total PCB ambient air concentration.

2. EPA Compendium Method TO-4A is for determination of pesticides and polychlorinated biphenyls in ambient air using high volume polyurethane foam (PUF) sampling followed by gas chromoatographic/multi-detector detection (GC/MD).

3. ND = "None Detected". Given the laboratory reporting limit is 0.5 ug/sample, the concentration is calculated based on this value and reported as less than this concentration.

4. As a frame of reference, the airborne concentrations observed here could be compared to the airborne concentrations observed during the previous 56/57 Demonstration Project in 1999. During that study, concentrations collected within the property boundaries of the remediation area ranged from 0.0013 to 0.0216 ug/m^3 during dredging. Baseline concentrations, obtained prior to this same dredging project ranged from 0.0003 to 0.0016 ug/m^3.

Attachment 2

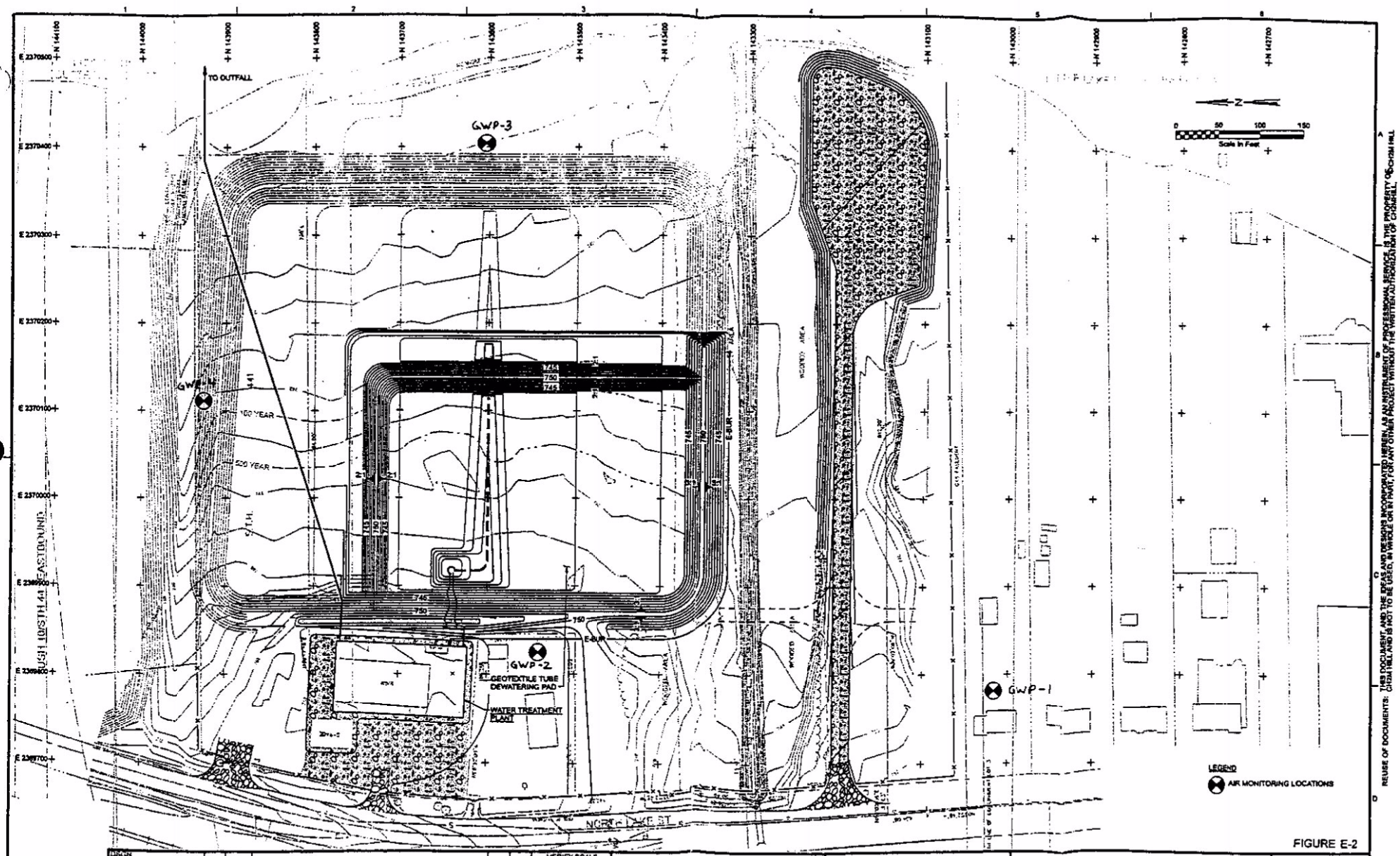


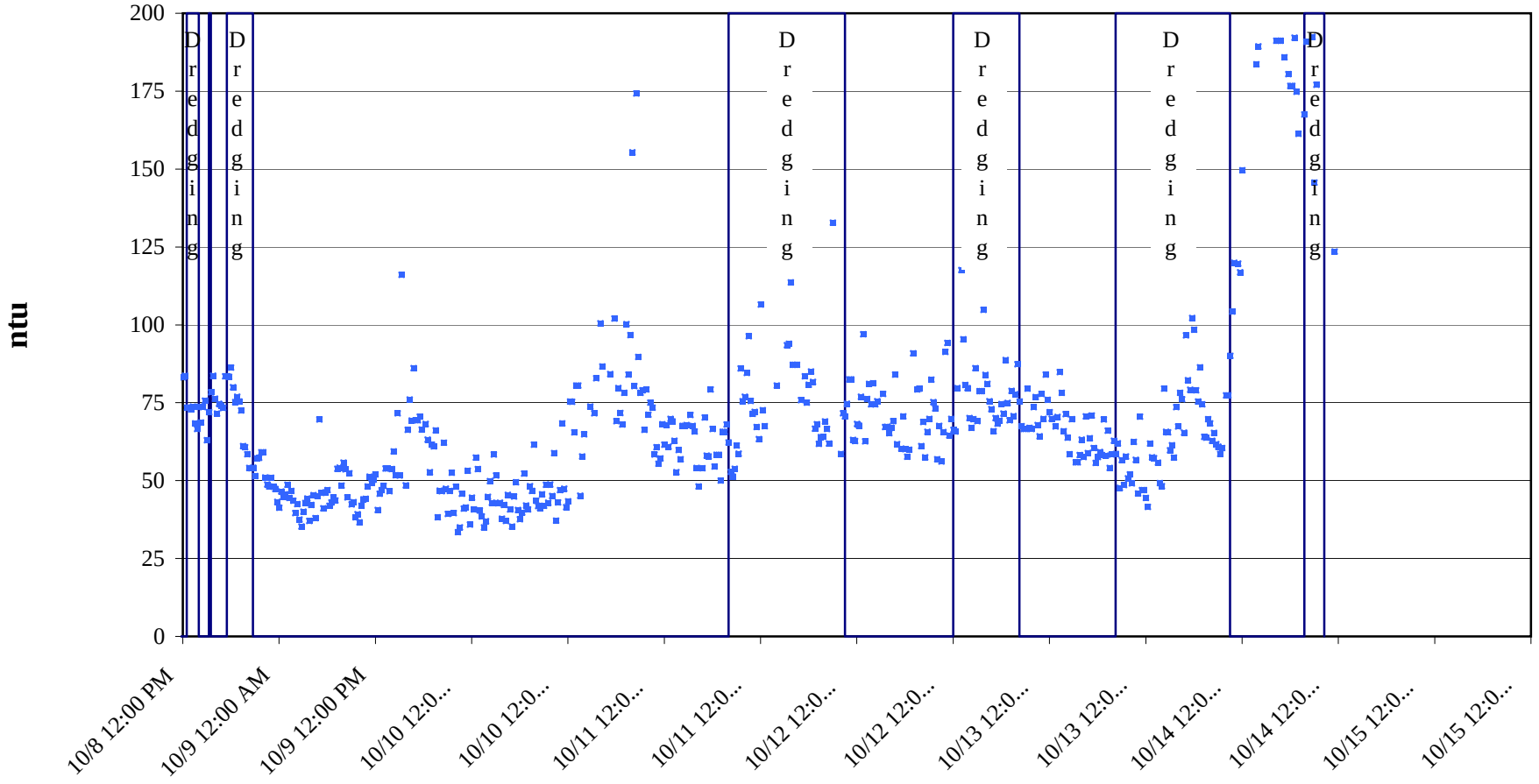
FIGURE E-2

DESIGN	C.M.LIETHEN				VERIFY SCALE	CH2MHILL	LOWER FOX RIVER (OU1) 2004 REMEDIAL ACTION TOWN OF MENASHA, WI G.W. PARTNERS, LLC	AIR MONITORING LOCATIONS	SHEET
DR	I.M.ZAEFKE				BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.				DWG C-1
CHK	D.J.PLOMB								DATE MAY 2004
APVD	S.D.LAVOLETTE	NO	DATE	REVISION	BY APVD				PROJ 315814.RA.01

FILENAME: tr5nc1416_183838.dgn PLOT DATE: 14-MAY-2004 PLOT TIME: 10:40:11

Attachment 3

Upstream Turbidity - Meter 912



Upstream Turbidity - Meter 912

10/8/2004 12:01	83.101	10/9/2004 12:01	52	10/10/2004 12:01	43.401	10/11/2004 12:01	106.501	10/12/2004 12:01	66.301	10/13/2004 12:01	44.401	10/14/2004 12:01	-
10/8/2004 12:16	83.701	10/9/2004 12:16	40.6	10/10/2004 12:16	75.401	10/11/2004 12:16	72.601	10/12/2004 12:16	65.801	10/13/2004 12:16	41.6	10/14/2004 12:16	-
10/8/2004 12:31	73.401	10/9/2004 12:31	45.8	10/10/2004 12:31	75.301	10/11/2004 12:31	67.501	10/12/2004 12:31	79.701	10/13/2004 12:31	61.901	10/14/2004 12:31	-
10/8/2004 12:46	73.501	10/9/2004 12:46	47	10/10/2004 12:46	65.501	10/11/2004 12:46	1085.2	10/12/2004 12:46	363.201	10/13/2004 12:46	57.5	10/14/2004 12:46	-
10/8/2004 13:01	72.901	10/9/2004 13:01	48.3	10/10/2004 13:01	80.501	10/11/2004 13:01	1085.2	10/12/2004 13:01	117.601	10/13/2004 13:01	57.201	10/14/2004 13:01	-
10/8/2004 13:16	73.801	10/9/2004 13:16	53.901	10/10/2004 13:16	80.501	10/11/2004 13:16	1087.801	10/12/2004 13:16	95.401	10/13/2004 13:16	1086.7	10/14/2004 13:16	-
10/8/2004 13:31	68.401	10/9/2004 13:31	53.901	10/10/2004 13:31	45.201	10/11/2004 13:31	1087.801	10/12/2004 13:31	80.701	10/13/2004 13:31	55.8	10/14/2004 13:31	-
10/8/2004 13:46	66.601	10/9/2004 13:46	46.6	10/10/2004 13:46	57.8	10/11/2004 13:46	179.4	10/12/2004 13:46	79.701	10/13/2004 13:46	49.201	10/14/2004 13:46	-
10/8/2004 14:01	73.701	10/9/2004 14:01	53.701	10/10/2004 14:01	64.901	10/11/2004 14:01	80.501	10/12/2004 14:01	70.101	10/13/2004 14:01	48.201	10/14/2004 14:01	-
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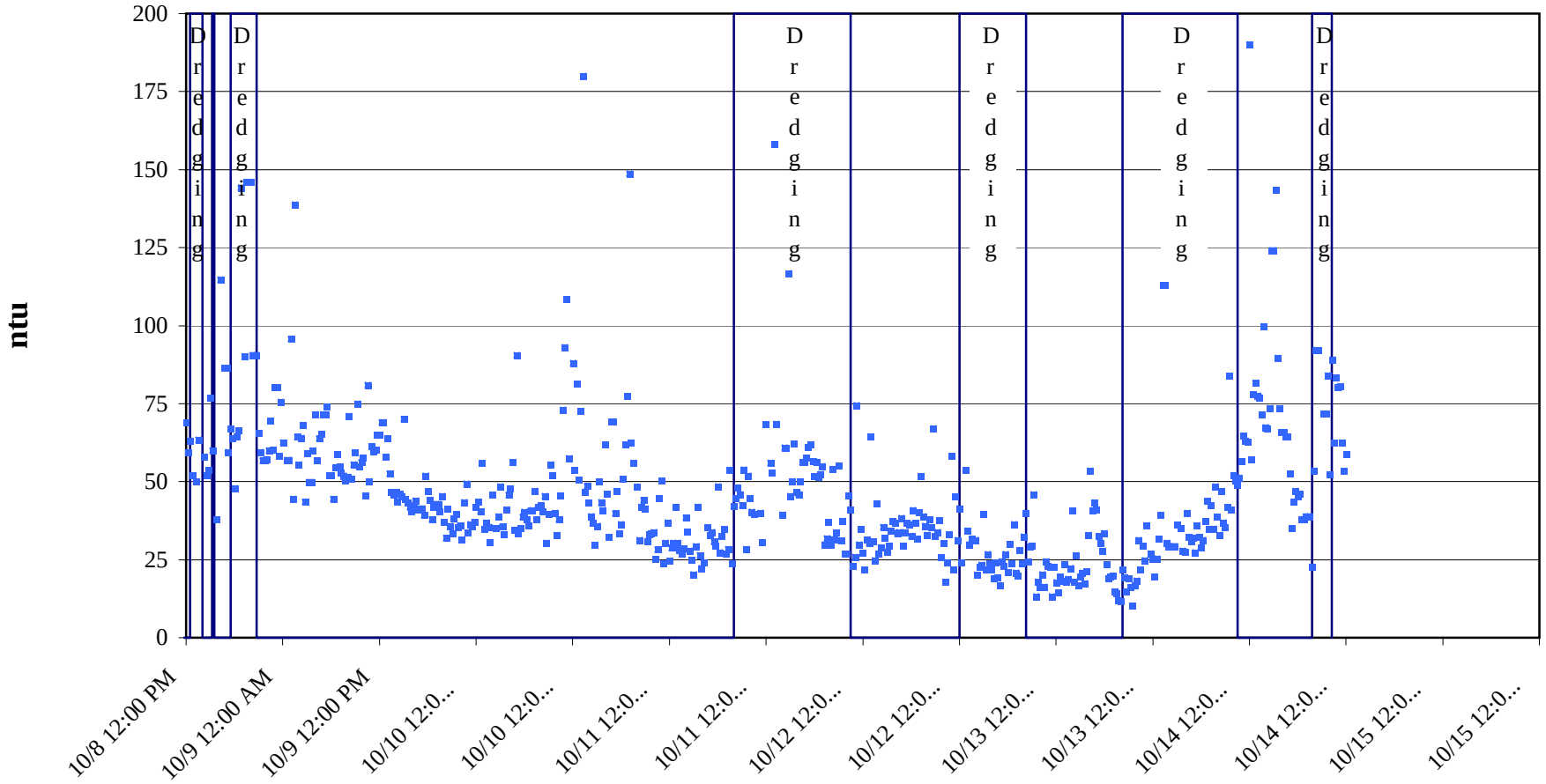
Downstream Turbidity - Meter 902



Downstream Turbidity - Meter 902

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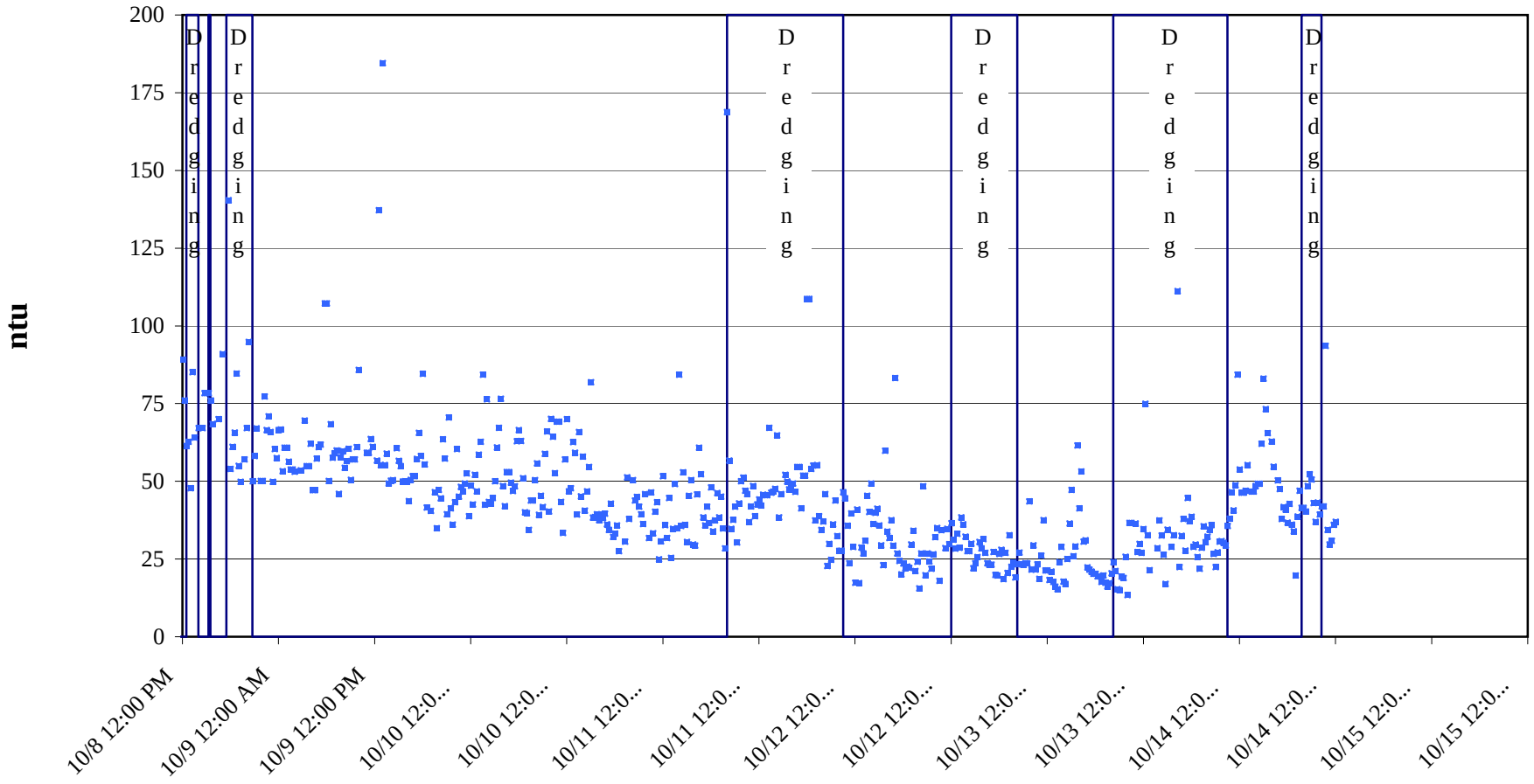
Far Downstream Turbidity - Meter 905



Far Downstream Turbidity - Meter 905

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10/9/2004 8:16	54.3	10/10/2004 8:16	55.8	10/11/2004 8:16	56.701	10/12/2004 8:16	26.8	10/13/2004 8:16	24	10/14/2004 8:31	48.5	10/15/2004 8:16	-
10/9/2004 8:31	56.5	10/10/2004 8:31	39.201	10/11/2004 8:31	34.701	10/12/2004 8:31	48.401	10/13/2004 8:31	21.101	10/14/2004 8:46	52.3	10/15/2004 8:31	-
10/9/2004 8:46	60.5	10/10/2004 8:46	45.3	10/11/2004 8:46	37.6	10/12/2004 8:46	19.8	10/13/2004 8:46	15.3	10/14/2004 9:01	50.6	10/15/2004 8:46	-
10/9/2004 9:01	50.5	10/10/2004 9:01	41.701	10/11/2004 9:01	41.8	10/12/2004 9:01	26.8	10/13/2004 9:01	15	10/14/2004 9:16	43	10/15/2004 9:01	-
10/9/2004 9:16	57	10/10/2004 9:16	58.8	10/11/2004 9:16	30.3	10/12/2004 9:16	24.201	10/13/2004 9:16	19.3	10/14/2004 9:31	37	10/15/2004 9:16	-
10/9/2004 9:31	57	10/10/2004 9:31	66.001	10/11/2004 9:31	42.901	10/12/2004 9:31	21.9	10/13/2004 9:31	18.9	10/14/2004 9:46	43.201	10/15/2004 9:31	-
10/9/2004 9:46	61	10/10/2004 9:46	40.3	10/11/2004 9:46	50	10/12/2004 9:46	26.5	10/13/2004 9:46	25.701	10/14/2004 10:01	39.3	10/15/2004 9:46	-
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10/9/2004 10:16	887.201	10/10/2004 10:16	64.301	10/11/2004 10:16	47	10/12/2004 10:16	35	10/13/2004 10:16	36.6	10/14/2004 10:31	41.901	10/15/2004 10:16	-
10/9/2004 10:31	887.201	10/10/2004 10:31	52.6	10/11/2004 10:31	45.901	10/12/2004 10:31	18	10/13/2004 10:31	36.6	10/14/2004 10:46	93.601	10/15/2004 10:31	-
10/9/2004 10:46	1086.801	10/10/2004 10:46	69.201	10/11/2004 10:46	36.901	10/12/2004 10:46	34.3	10/13/2004 10:46	599.5	10/14/2004 11:01	34.401	10/15/2004 10:46	-
10/9/2004 11:01	59.201	10/10/2004 11:01	69.201	10/11/2004 11:01	41.901	10/12/2004 11:01	1080.6	10/13/2004 11:01	36.401	10/14/2004 11:16	29.701	10/15/2004 11:01	-
10/9/2004 11:16	59.201	10/10/2004 11:16	43.401	10/11/2004 11:16	48.5	10/12/2004 11:16	28.5	10/13/2004 11:16	27.3	10/14/2004 11:31	30.9	10/15/2004 11:16	-
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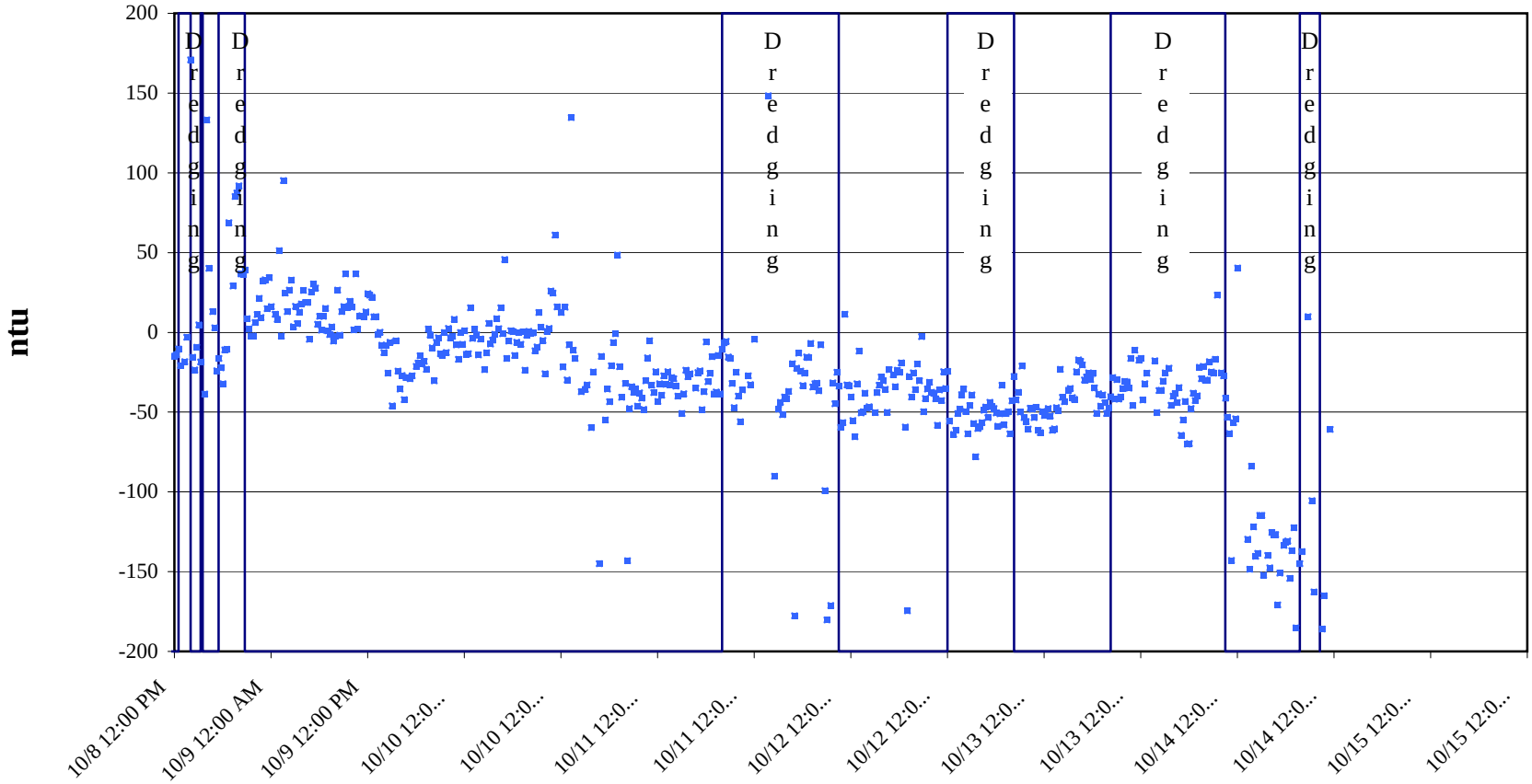
10/9/2004 11:46	61.1	10/10/2004 11:46	57	10/11/2004 11:46	42.6	10/12/2004 11:46	29.8	10/13/2004 11:46	27			10/15/2004 11:46	-
												10/15/2004 12:01	-

Turbidity
Downstream/Upstream Difference
(Downstream Minus Upstream)



Attachment 4

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID	Comments: Other
8/30/2004	13:47	19.8	19	25	6	912	Calm (0-5 mph)	1 RA 04 DEWT SW 1 - 912	Location 1 in SQL Database
8/30/2004	13:54	19.1	24	22	-2	902	Calm (0-5 mph)	1 RA 04 DEWT SW 2 - 902	Location 1 in SQL Database
8/30/2004	14:01	20.1	18	23	5	905	Calm (0-5 mph)	1 RA 04 DEWT SW 3 - 905	Location 1 in SQL Database
8/31/2004	19:32	12.0	13.5	15	1.5	912	Calm (0-5 mph)	1 RA 04 DEWT SW 4 - 912	Location 1 in SQL Database
8/31/2004	19:40	18.2	23	25	2	902	Calm (0-5 mph)	1 RA 04 DEWT SW 5 - 902	Location 1 in SQL Database
				24				1 RA 04 DEWT SW 5Dup - 902	
8/31/2004	19:47	12.8	13.5	17	3.5	905	Calm (0-5 mph)	1 RA 04 DEWT SW 6 - 905	Location 1 in SQL Database
				<1.0				1 RA 04 DEWT SW 7RINSE - 905	
9/1/2004	12:56	24.2	23	28	5	912	Calm (0-5 mph)	1 RA 04 DEWT SW 8 - 912	Location 1 in SQL Database
9/1/2004	13:08	51.1	39	36	-3	902	Calm (0-5 mph)	1 RA 04 DEWT SW 9 - 902	Location 1 in SQL Database
9/1/2004	13:15	22.8	21.6	25	3.4	905	Calm (0-5 mph)	1 RA 04 DEWT SW 10 - 905	Location 1 in SQL Database
9/2/2004	12:16	22.4	23	26	3	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 11 - 912	Location 1 in SQL Database
9/2/2004	12:31	34.4	35	41	6	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 12 - 902	Location 1 in SQL Database
9/2/2004	12:44	33.3	30	31	1	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 13 - 905	Location 1 in SQL Database
9/3/2004	11:55	21.1	18	20	2	912	Calm (0-10 mph)	1 RA 04 DEWT SW 14 - 912	Location 1 in SQL Database
9/3/2004	12:05	39.7	30	28	-2	902	Calm (0-10 mph)	1 RA 04 DEWT SW 15 - 902	Location 1 in SQL Database
				28				1 RA 04 DEWT SW 15Dup - 902	
9/3/2004	12:13	16.6	18	20	2	905	Calm (0-10 mph)	1 RA 04 DEWT SW 16 - 905	Location 1 in SQL Database
				<1.0				1 RA 04 DEWT SW 16RINSE - 905	
9/7/2004	7:22	20	32.6		NA	902	Calm (0-10 mph)	NA	Location 1 in SQL Database
9/7/2004	7:26	20.7	33		NA	905	Calm (0-10 mph)	NA	Location 1 in SQL Database
9/7/2004	7:51	15.5	28.5		NA	912	Calm (0-10 mph)	NA	Location 1 in SQL Database
9/7/2004	11:52	18.7		24	5.3	912	Calm (0-10 mph)	1 RA 04 DEWT SW 18 - 912	Location 1 in SQL Database
9/7/2004	12:07	25		29	4	902	Calm (0-10 mph)	1 RA 04 DEWT SW 19 - 902	Location 1 in SQL Database
9/7/2004	12:15	22.7		23	0.3	905	Calm (0-10 mph)	1 RA 04 DEWT SW 20 - 905	Location 1 in SQL Database
9/8/2004	11:39	51.3		58	6.7	912	Windy (15-20 mph)	1 RA 04 DEWT SW 21 - 912	Location 1 in SQL Database
9/8/2004	11:50	36		42	6	902	Windy (15-20 mph)	1 RA 04 DEWT SW 22 - 902	Location 1 in SQL Database
9/8/2004	11:56	39.9		48	8.1	905	Windy (15-20 mph)	1 RA 04 DEWT SW 23 - 905	Location 1 in SQL Database
9/9/2004	11:11	31.8	33	25	-8	912	Calm (0-5 mph)	1 RA 04 DEWT SW 24 - 912	Location 2 in SQL Database
9/9/2004	11:20	24	26	25	-1	902	Calm (0-5 mph)	1 RA 04 DEWT SW 25 - 902	Location 2 in SQL Database
9/9/2004	11:35	23.2	26	24	-2	905	Calm (0-5 mph)	1 RA 04 DEWT SW 26 - 905	Location 2 in SQL Database
9/10/2004	9:36	23.5	26	21	-5	912	Windy (10-20 mph)	1 RA 04 DEWT SW 27 - 912	Location 3 in SQL Database
9/10/2004	9:48	1100	35	22	-13	902	Windy (10-20 mph)	1 RA 04 DEWT SW 28 - 902	Location 3, Telemetric reading appears unreal
				23				1 RA 04 DEWT SW 28Dup - 902	
9/10/2004	10:00	657	30	24	-6	905	Windy (10-20 mph)	1 RA 04 DEWT SW 29 - 905	Location 3, Telemetric reading appears unreal
				<1.0				1 RA 04 DEWT SW 30RINSE - 905	
9/11/2004	9:43	23	30	21	-9	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 31 - 912	Location 4 in SQL Database
9/11/2004	9:53	21.7	32	24	-8	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 32 - 902	Location 4 in SQL Database
9/11/2004	10:01	44.1	33	27	-6	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 33 - 905	Location 4 in SQL Database
9/14/2004	10:43	18.8	20.5	23	2.5	912	Windy (10-20 mph)	1 RA 04 000A SW 34 - 912	Location 5 in SQL Database
9/14/2004	10:52	20	18.6	22	3.4	902	Windy (10-20 mph)	1 RA 04 000A SW 35 - 902	Location 5 in SQL Database
9/14/2004	11:01	16	16.8	21	4.2	905	Windy (10-20 mph)	1 RA 04 000A SW 36 - 905	Location 5 in SQL Database
9/15/2004	11:16	36.9	35.9	16	-19.9	912	Windy (15-25 mph)	1 RA 04 000A SW 37 - 912	Location 6 in SQL Database
9/15/2004	11:31	23.9	23	26	3	902	Windy (15-25 mph)	1 RA 04 000A SW 38 - 902	Location 6 in SQL Database
9/15/2004	11:45	24.9	25.5	26	0.5	905	Windy (15-25 mph)	1 RA 04 000A SW 39 - 905	Location 6 in SQL Database
9/16/2004	9:30	36	36	44	8	912	Breezy (5-15 mph)	1 RA 04 000A SW 40 - 912	Location 6 in SQL Database
9/16/2004	9:55	26	26	28	2	902	Breezy (5-15 mph)	1 RA 04 000A SW 41 - 902	Location 6 in SQL Database
				27				1 RA 04 000A SW 41Dup - 902	
9/16/2004	10:03	34.5	34.5	34	-0.5	905	Breezy (5-15 mph)	1 RA 04 000A SW 42 - 905	Location 6 in SQL Database
				<1.0				1 RA 04 000A SW 43RINSE - 905	
9/17/2004	10:32	18.2	36	15	-21	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 44 - 912	Location 6 in SQL Database
9/17/2004	10:58	17.6	17	16	-1	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 45 - 902	Location 6 in SQL Database
9/17/2004	11:08	15.3	17	14	-3	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 46 - 905	Location 6 in SQL Database
9/20/2004	12:57	39.2	36	45	9	912	Breezy (5-15 mph)	1 RA 04 000A SW 47 - 912	Location 6 in SQL Database
9/20/2004	12:31	32.4	37	35	-2	902	Breezy (5-15 mph)	1 RA 04 000A SW 48 - 902	Location 6 in SQL Database
				35				1 RA 04 000A SW 48Dup - 902	
9/20/2004	12:22	31.7	36	36	0	905	Breezy (5-15 mph)	1 RA 04 000A SW 49 - 905	Location 6 in SQL Database
				1.2				1 RA 04 000A SW 50RINSE - 905	
9/21/2004	10:08	39.4	38	40	2	905	Breezy (5-15 mph)	1 RA 04 000A SW 51 - 905	Location 7 in SQL Database
9/21/2004	10:21	35.4	42	38	-4	902	Breezy (5-15 mph)	1 RA 04 000A SW 52 - 902	Location 7 in SQL Database
9/21/2004	10:35	41.7	36	52	16	912	Breezy (5-15 mph)	1 RA 04 000A SW 53 - 912	Location 7 in SQL Database
9/22/2004	10:13	21.8	24	22	-2	905	Calm (0-5 mph)	1 RA 04 000A SW 54 - 905	Location 7 in SQL Database
9/22/2004	10:23	21.3	23	24	1	902	Calm (0-5 mph)	1 RA 04 000A SW 55 - 902	Location 7 in SQL Database
9/22/2004	10:38	18.5	36	28	-8	912	Calm (0-5 mph)	1 RA 04 000A SW 56 - 912	Location 7 in SQL Database
9/23/2004	11:11	15.1	19	16	-3	905	Breezy (5-15 mph)	1 RA 04 000A SW 57 - 905	Location 7 in SQL Database
9/23/2004	11:23	31.7	20	19	-1	902	Breezy (5-15 mph)	1 RA 04 000A SW 58 - 902	Location 7 in SQL Database
9/23/2004	12:17	26.6	27	29	2	912	Breezy (5-15 mph)	1 RA 04 000A SW 59 - 912	Location 7 in SQL Database
9/24/2004	9:35	18.2	19.5	22	2.5	905	Calm (0-5 mph)	1 RA 04 000A SW 60 - 905	Location 8 in SQL Database
9/24/2004	9:44	34.8	27.8	30	2.2	902	Calm (0-5 mph)	1 RA 04 000A SW 61 - 902	Location 8 in SQL Database
				30				1 RA 04 000A SW 61Dup - 902	
9/24/2004	10:02	39.1	47	72	25	912	Calm (0-5 mph)	1 RA 04 000A SW 62 - 912	Location 8 in SQL Database
				1.3				1 RA 04 000A SW 63RINSE - 912	
9/27/2004	11:10	11.6	12.5	14	1.5	905	Calm (0-5 mph)	1 RA 04 000A SW 64 - 905	Location 8 in SQL Database
9/27/2004	11:21	53.1	16.5	16	-0.5	902	Calm (0-5 mph)	1 RA 04 000A SW 65 - 902	Location 8 in SQL Database
9/27/2004	11:36	14.3	20	22	2	912	Calm (0-5 mph)	1 RA 04 000A SW 66 - 912	Location 8 in SQL Database
9/27/2004	11:46	11.6			NA	902	Calm (0-5 mph)	NA	Location 8 in SQL Database
9/27/2004	13:01	17.2			NA	902	Calm (0-5 mph)	NA	Location 8 in SQL Database
9/28/2004	11:31	33.9	38	32	-6	905	Windy (15-20 mph)	1 RA 04 000A SW 67 - 905	Location 8 in SQL Database
9/28/2004	11:38	38.7	41	33	-8	902	Windy (15-20 mph)	1 RA 04 000A SW 68 - 902	Location 8 in SQL Database
				33				1 RA 04 000A SW 68Dup - 902	
9/28/2004	11:48	33.4	34	44	10	912	Windy (15-20 mph)	1 RA 04 000A SW 69 - 912	Location 8 in SQL Database
				1.2				1 RA 04 000A SW 70RINSE - 912	
9/29/2004	11:38	17.3	20.5	20	-0.5	905	Calm (0-5 mph)	1 RA 04 000A SW 71 - 905	Location 8 in SQL Database
9/29/2004	11:46	19.3	27.8	23	-4.8	902	Calm (0-5 mph)	1 RA 04 000A SW 72 - 902	Location 8 in SQL Database
9/29/2004	12:22	14.2	14.5	33	18.5	912	Calm (0-5 mph)	1 RA 04 000A SW 73 - 912	Location 8 in SQL Database

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

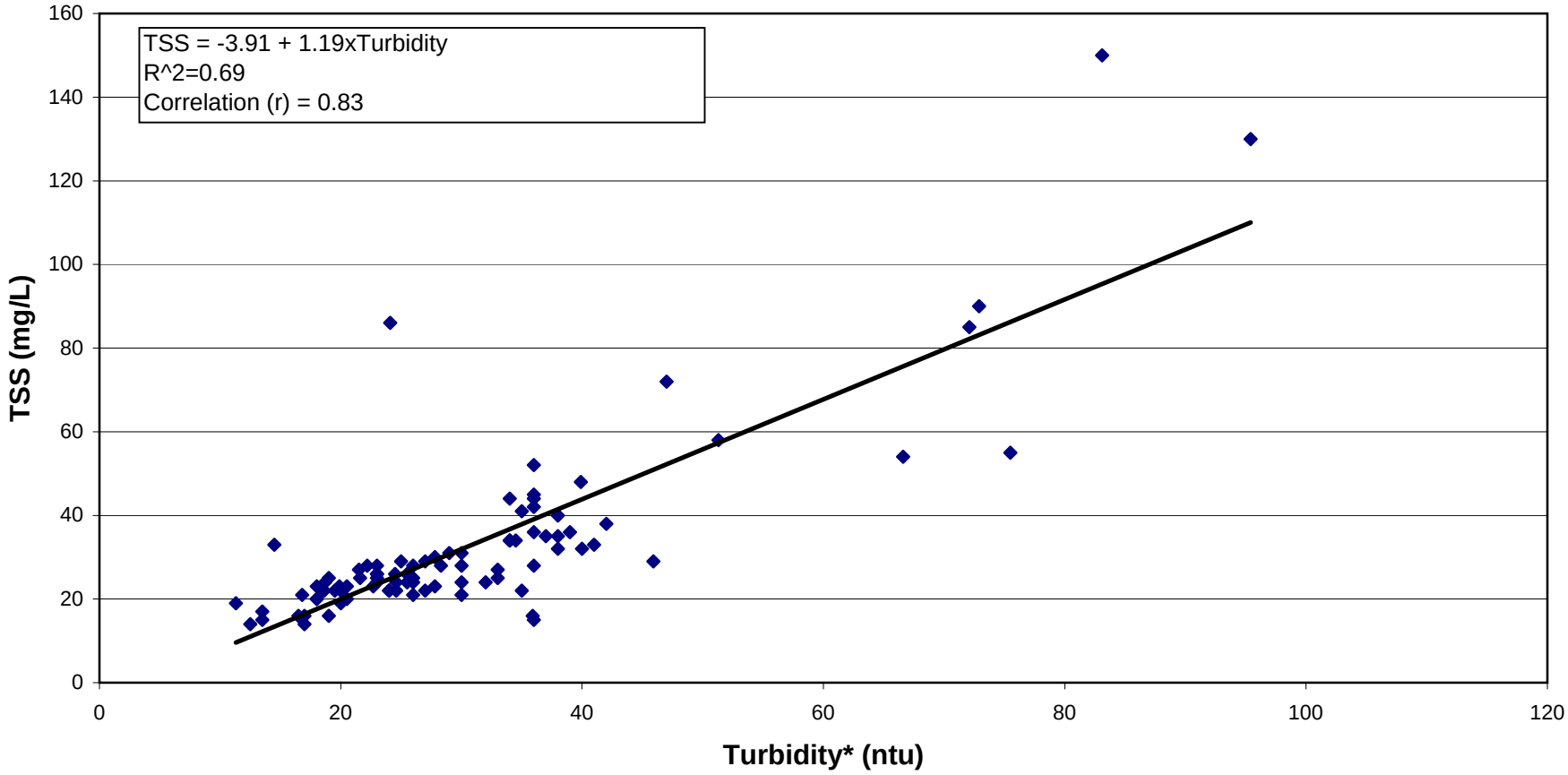
Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID	Comments: Other
9/29/2004	12:31	14.3			NA	902	Calm (0-5 mph)	NA	Location 8 in SQL Database
9/30/2004	10:20	24.6		24	-0.6	905	Calm (0-5 mph)	1 RA 04 000A SW 74 - 905	Location 8 in SQL Database
9/30/2004	10:30	18.6		22	3.4	902	Calm (0-5 mph)	1 RA 04 000A SW 75 - 902	Location 8 in SQL Database
9/30/2004	10:50	11.3		19	7.7	912	Calm (0-5 mph)	1 RA 04 000A SW 76 - 912	Location 8 in SQL Database
10/1/2004	10:34	24.9	27	22	-5	905	Breezy (10-15 mph)	1 RA 04 000A SW 77 - 905	Location 8 in SQL Database
10/1/2004	10:45	31.8	38	35	-3	902	Breezy (10-15 mph)	1 RA 04 000A SW 78 - 902	Location 8 in SQL Database
				34				1 RA 04 000A SW 78Dup - 902	
10/1/2004	11:03	34	34	34	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 79 - 912	Location 8 in SQL Database
				<1.0				1 RA 04 000A SW 80RINSE - 912	
10/4/2004	10:21	31.2	21.5	27	5.5	905	Breezy (10-15 mph)	1 RA 04 000A SW 81 - 905	Location 8 in SQL Database
10/4/2004	10:27	27.5	22.2	28	5.8	902	Breezy (10-15 mph)	1 RA 04 000A SW 82 - 902	Location 8 in SQL Database
10/4/2004	10:58	32.7	34	34	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 83 - 912	Location 8 in SQL Database
10/6/2004	9:09	22	24.5	26	1.5	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 84 - 905	Location 9 in SQL Database
10/6/2004	9:24	22	25.5	24	-1.5	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 85 - 902	Location 9 in SQL Database
				22				1 RA 04 000A SW 85Dup - 902	
10/6/2004	9:49	26	29	31	2	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 86 - 912	Location 9 in SQL Database
				<2.0				1 RA 04 000A SW 87RINSE - 912	
10/7/2004	9:55	24	24.6	22	-2.6	905	Calm (0-7 mph)	1 RA 04 000A SW 88 - 905	Location 9 in SQL Database
10/7/2004	10:11	23	19.9	23	3.1	902	Calm (0-7 mph)	1 RA 04 000A SW 89 - 902	Location 9 in SQL Database
10/7/2004	10:34	70	72.9	90	17.1	912	Calm (0-7 mph)	1 RA 04 000A SW 90 - 912	Location 9 in SQL Database
10/8/2004	11:24	85	75.5	55	-20.5	905	Calm (0-8 mph)	1 RA 04 000A SW 91 - 905	Location 9 in SQL Database
10/8/2004	11:38	66	66.6	54	-12.6	902	Calm (0-8 mph)	1 RA 04 000A SW 92 - 902	Location 9 in SQL Database
10/8/2004	11:54	91	83.1	150	66.9	912	Calm (0-8 mph)	1 RA 04 000A SW 93 - 912	Location 9 in SQL Database
10/11/2004	10:36	46	45.9	29	-16.9	905	Calm (0-5 mph)	1 RA 04 000A SW 94 - 905	Location 9 in SQL Database
10/11/2004	10:58	43	40	32	-8	902	Calm (0-5 mph)	1 RA 04 000A SW 95 - 902	Location 9 in SQL Database
10/11/2004	11:18	90	72.1	85	12.9	912	Calm (0-5 mph)	1 RA 04 000A SW 96 - 912	Location 9 in SQL Database
10/12/2004	12:27	27	28.3	28	-0.3	905	Very Calm (0-3 mph)	1 RA 04 000A SW 97 - 905	Location 9 in SQL Database
10/12/2004	12:35	30	24.1	86	61.9	902	Very Calm (0-3 mph)	1 RA 04 000A SW 98 - 902	Location 9 in SQL Database
				62				1 RA 04 000A SW 98Dup - 902	
10/12/2004	12:49	90	95.4	130	34.6	912	Very Calm (0-3 mph)	1 RA 04 000A SW 99 - 912	Location 9 in SQL Database
				<2.0				1 RA 04 000A SW 100RINSE - 912	
10/13/2004	10:01	23	13.4			905	Very Calm (0-3 mph)	1 RA 04 000A SW 101 - 905	Location 9 in SQL Database
10/13/2004	10:16	38	31.3			902	Very Calm (0-3 mph)	1 RA 04 000A SW 102 - 902	Location 9 in SQL Database
10/13/2004	10:31	81	62.4			912	Very Calm (0-3 mph)	1 RA 04 000A SW 103 - 912	Location 9 in SQL Database
10/14/2004	8:57	46	50.6			905	Breezy (10-15 mph)	1 RA 04 000A SW 104 - 905	Location 9 in SQL Database
10/14/2004	9:05	45	52.3			902	Breezy (10-15 mph)	1 RA 04 000A SW 105 - 902	Location 9 in SQL Database
10/14/2004	9:23	160	177.1			912	Breezy (10-15 mph)	1 RA 04 000A SW 106 - 912	Location 9 in SQL Database
10/18/2004	9:35	17	16.9			905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 107 - 905	Location 10 in SQL Database
10/18/2004	9:45	17.8	15.2			902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 108 - 902	Location 10 in SQL Database
10/18/2004	9:54	21.5	17.4			912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 109 - 912	Location 10 in SQL Database
10/19/2004	9:49	21	25.1			905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 110 - 905	Location 10 in SQL Database
10/19/2004	9:29	16.5	15.3			902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 111 - 902	Location 10 in SQL Database
								1 RA 04 000A SW 111Dup - 902	
10/19/2004	9:21	16	17.7			912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 112 - 912	Location 10 in SQL Database
								1 RA 04 000A SW 113RINSE - 912	

[1] Sampling time approximate - readings collected on regular 15 minute intervals.

[2] Hand-held turbidity used in difference if available.

Data presented are Draft and Preliminary. These data have not undergone QA procedures and should not be viewed as final.

TSS/Turbidity Correlation
Data presented are Draft and Preliminary



Note: Includes data collected 8/30/04 - 10/12/04

*Data are hand held turbidity readings when available, otherwise telemetric reading sampled closest in time

Attachment 5

GW Partners
Lower Fox River - OU-1
04G007
Effluent Results - Draft and Preliminary

Date	Sample ID	TSS (mg/L)	BOD (mg/L)	Daily Flow (million gallons)	Ammonia Nitrogen (mg/L)	Total PCBs (ug/L)
9/3/04	IRA04 DEWT EF1	21	-	-	<0.32	<0.26
9/7/04	IRA04 DEWT EF2	9.0	-	-	0.67	<0.24
9/9/04	IRA04 DEWT EF3	19	-	-	3.1	<0.24
9/10/04	IRA04 DEWT EF4	24	-	-	4.5	<0.32
9/11/04	IRA04 DEWT EF5	16	-	-	2.9	<0.25
9/13/04	IRA04 DEWT EF6	12	-	-	4.9	<0.26
9/15/04	IRA04 DEWT EF7	87	-	-	6.7	<0.25
9/16/04	IRA04 DEWT EF8	40	16	0.8	4.4	<0.25
9/17/04	IRA04 DEWT EF9	33	12	-	3.2	<0.25
9/17/04 Dup.	IRA04 DEWT EF9 DUP	31	-	-	3.1	-
9/20/04	IRA04 DEWT EF10	11	3.1	1.1	2.2	<0.26
9/20/04	IRA04 DEWT EF10 Dup	-	-	-	-	<0.25
9/21/04	IRA04 DEWT EF11	17	3.2	0.3	1.8	<0.25
9/21/04	IRA04 DEWT EF11 Dup	-	3.2	-	-	-
9/22/04	IRA04 DEWT EF12	17	6.6	0.4	1.5	<0.25
9/23/04	IRA04 DEWT EF13	20	3.4	1.0	1.5	<0.25
9/24/04	IRA04 DEWT EF14	18	3.1	0.4	1.4	<0.25
9/25/04	IRA04 DEWT EF15	19	<2.0	-	1.5	<0.25
9/27/04	IRA04 DEWT EF16	10	<2.0	0.6	1.7	<0.25
9/28/04	IRA04 DEWT EF17	11	4.2	0.7	1.5	<0.26
9/29/04	IRA04 DEWT EF18	13	4.4	0.6	1.4	<0.26
9/29/04	IRA04 DEWT EF18 Dup	10	4.3	-	1.4	<0.25
9/30/04	IRA04 DEWT EF19	11	5.4	0.5	1.4	<0.25
10/1/04	IRA04 DEWT EF20	12	5.9	0.8	<0.32	<0.25
10/2/04	IRA04 DEWT EF21	23	9.6	-	1.2	<0.24
10/4/04	-	-	-	0.6	-	-
10/5/04	IRA04 DEWT EF22	20	7.7	-	-	<0.25
10/7/04	IRA04 DEWT EF23	13	-	1.1	-	<0.24
10/8/04	IRA04 DEWT EF24	14	6.0	0.6	-	-
10/9/04	IRA04 DEWT EF25	-	-	-	-	-
10/11/04	IRA04 DEWT EF26	3.3	-	0.5	-	-
10/12/04	IRA04 DEWT EF27	3.6	-	0.2	-	-
Performance Expectation		5[a], 10[b]	10	1.2 - 1.7 (mgd)		< 0.1 - 0.5

[a] Monthly average

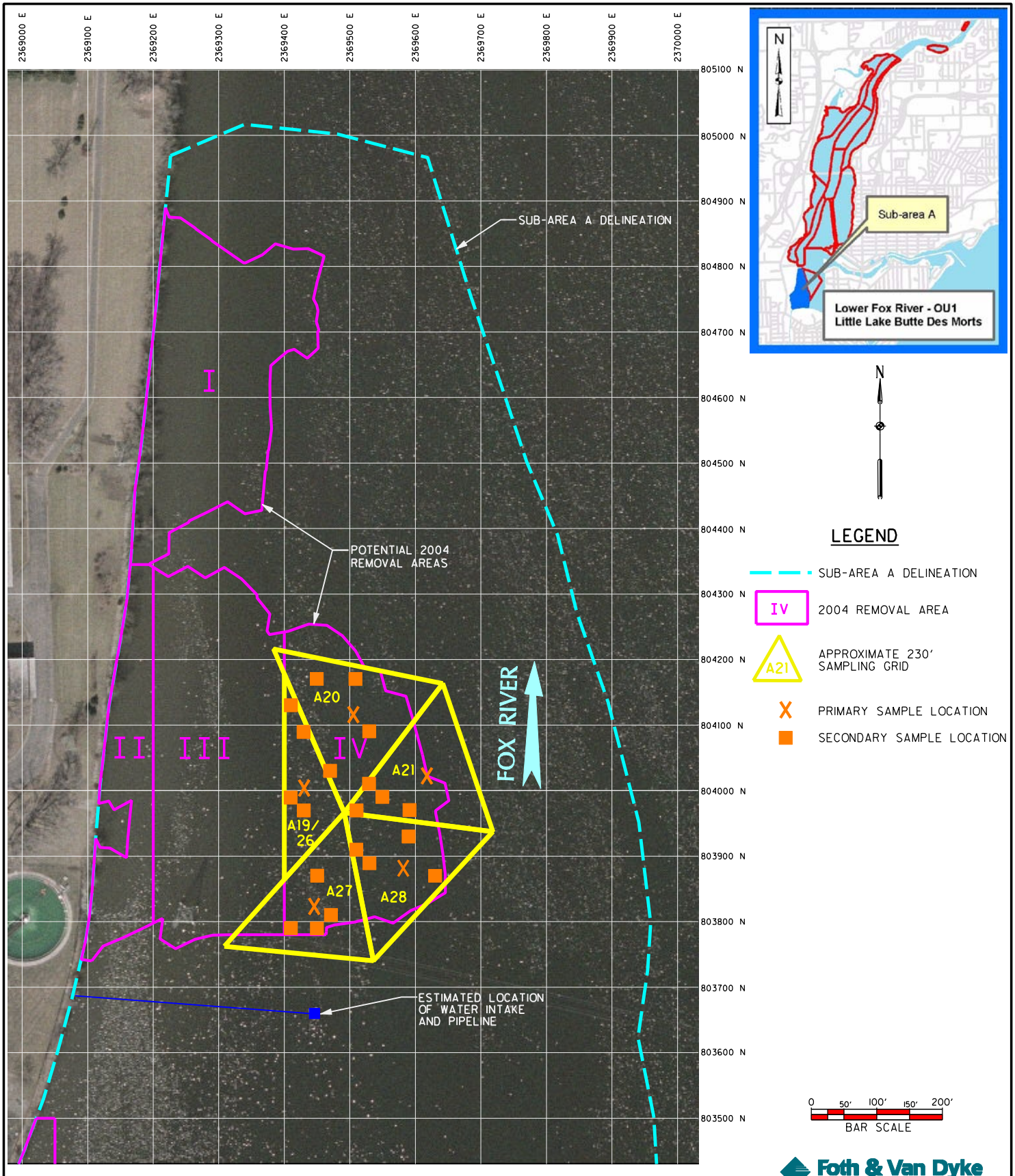
[b] Daily maximum

Data received by 10/18/04

Data presented are Draft and Preliminary.

These data have not undergone QA procedures and should not be viewed as final.

Attachment 6



Foth & Van Dyke

NOTES:

1. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
2. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
3. SUB-AREA A DELINEATION FROM 2003 PRE-DESIGN SAMPLING PLAN.
4. REGION IV DREDGED IN FALL 2004, REGIONS I - III HAVE NOT BEEN DREDGED AS OF OCTOBER 2004.

GW PARTNERS

FIGURE 1

LOWER FOX RIVER - SUB-AREA A
REGION IV
POST DREDGE SEDIMENT SAMPLE LOCATIONS

Prepared By: Foth & Van Dyke	Date: OCTOBER, 2004
Drawn By: JRB2	Checked By: JBH1
	Scope: 04G007

I:\02g005\NAD 83 - NAVD 88 DATUM\GMS\Deposit-A\2g05fig2.3d
10/19/2004 jrb2

DRAFT

Foth & Van Dyke

Memorandum

October 26, 2004

TO: Ben Hung, WDNR
Greg Hill, WDNR
Gary Kincaid, WDNR
Jim Hahnenberg, EPA
Boldt Oversight Team

CC: Bill Hartman, GW Partners
Amie Obermeier, GW Partners
Sherman LaViolette, CH2MHill
Mike Jury, CH2MHill
Tara Konkle, Foth & Van Dyke
Steve Laszewski, Foth & Van Dyke

FR: Jim Hutchison, Foth & Van Dyke

RE: OU1 2004 Environmental Monitoring Data – October 15 through October 22, 2004

Attached are monitoring data for the one week period beginning October 15, 2004 and ending October 22, 2004 for the environmental monitoring activities pursuant to the 2004 RA Work Plan, May, 2004 and subsequent addendum. If you have any questions or comments please contact Jim Hutchison at (920) 497 2500 or at jhutchison@foth.com. In addition to the weekly data summary, project data will be provided in a database format following completion of the 2004 RA work.

Data presented are draft and preliminary. These data have not undergone QA procedures and should not be viewed as final.

Air Monitoring Data:

Summary: Air sampling at the four meter locations was initiated on August 7, 2004. Sampling consisted of a 72 hour sampling event per week. Continuous sampling began on August 30, 2004. PCBs have not been detected to date.

Attachment 1- Summary of Air Sampling Results 10/8/04 through 10/17/04
Attachment 2- Monitor Location Sketch

Surface Water Data:

Summary: River turbidity meters began operation on August 20, 2004 monitoring river turbidity (NTUs) every 15 minutes at three locations. The meters are located upstream (meter 912), downstream (meter 902) and far downstream (meter 905) of dredging activities. Dredging did not occur from 10/15 through 10/18. The dredge was being moved from Sub Area A to Sub Area POG2. Generally the data show that the downstream turbidity has been within acceptable limits of the upstream turbidity. **Please note the turbidity data graphs indicate dredging and no dredging times.**

Attachment 3- Graphs and Tabulation of Turbidity Data for Upstream, Downstream, Far Downstream and Upstream/Downstream Difference Graph

Field Surface Water Data

Summary: Field data includes hand held turbidity measurements and TSS sampling taken at the turbidity monitoring stations between August 30, 2004 and October 22, 2004. The correlation between TSS and turbidity to date shows a correlation coefficient of 0.87.

Attachment 4-TSS and Field Turbidity Data and TSS/Turbidity Correlation

Water Treatment Data:

Summary: The effluent water is being analyzed for TSS, PCBs, Ammonia and BOD.

Attachment 5- Effluent water results

Post-Dredge Bathymetric QA Summary

Summary: QA bathymetric data for Region VIII of Deposit A is shown in Attachment 6.

Attachment: 6 – Sub Area A – Region VIII (R) Post Dredge Isopach Map.

Sediment Sample Verification:

Summary: Post dredging sediment samples collection began on October 11 and finished on October 12, 2004 in Region IV of Deposit A. Laboratory test results are shown in Attachment 7. .

Attachment: 7 – Sub Area Region IV Post Dredge Sediment Sample Results

Sand Placement Verification:

Summary: Sand placement has not been initiated to date

Attachment: None

Note: Transmitted when available, as these data will be obtained less frequently then other project environmental data.

Attachment 1

GW Partners, LLC

Lower Fox River Operable Unit 1

Summary of Air Sampling Results Calculated through October 26, 2004

All Results Reported in Total PCBs[1]

Dates	Sampling Round	Location ID	Sample ID	Laboratory Method[2]	Laboratory Reporting Limit (Total µg of PCBs)	Laboratory Results (Total µg of PCBs)[3]	Total Air Volume Sampled (Total m^3)		Calculated PCB Conc'n ($\mu g/m^3$)[4]
10-5-04 to 10-8-04	17	GWP-1	PCB-01-17	EPA TO-4A	0.5	ND	1061.52	≤	0.00047
10-5-04 to 10-8-04	17	GWP-2	PCB-02-17	EPA TO-4A	0.5	ND	1074.64	≤	0.00047
10-5-04 to 10-8-04	17	GWP-3	PCB-03-17	EPA TO-4A	0.5	ND	1063.1	≤	0.00047
10-5-04 to 10-8-04	17	GWP-4	PCB-04-17	EPA TO-4A	0.5	ND	1077.94	≤	0.00046
10-8-04 to 10-11-04	18	GWP-1	PCB-01-18	EPA TO-4A	0.5	ND	1131.04	≤	0.00044
10-8-04 to 10-11-04	18	GWP-2	PCB-02-18	EPA TO-4A	0.5	ND	1122.04	≤	0.00045
10-8-04 to 10-11-04	18	GWP-3	PCB-03-18	EPA TO-4A	0.5	ND	1083.83	≤	0.00046
10-8-04 to 10-11-04	18	GWP-4	PCB-04-18	EPA TO-4A	0.5	ND	1114.57	≤	0.00045
10-8-04 to 10-11-04	18	N/A	Field Blank 7	EPA TO-4A	0.5	ND	N/A	≤	N/A
10-11-04 to 10-14-04	19	GWP-1	PCB-01-19	EPA TO-4A	0.5	ND	1105.13	≤	0.00045
10-11-04 to 10-14-04	19	GWP-2	PCB-02-19	EPA TO-4A	0.5	ND	1139.05	≤	0.00044
10-11-04 to 10-14-04	19	GWP-3	PCB-03-19	EPA TO-4A	0.5	ND	1133.47	≤	0.00044
10-11-04 to 10-14-04	19	GWP-4	PCB-04-19	EPA TO-4A	0.5	ND	1131.86	≤	0.00044
10-14-04 to 10-17-04	20	GWP-1	PCB-01-20	EPA TO-4A	0.5	ND	1090.54	≤	0.00046
10-14-04 to 10-17-04	20	GWP-2	PCB-02-20	EPA TO-4A	0.5	ND	1125.11	≤	0.00044
10-14-04 to 10-17-04	20	GWP-3	PCB-03-20	EPA TO-4A	0.5	ND	1080.57	≤	0.00046
10-14-04 to 10-17-04	20	GWP-4	PCB-04-20	EPA TO-4A	0.5	ND	1118.21	≤	0.00045
10-14-04 to 10-17-04	20	N/A	Field Blank 8	EPA TO-4A	0.5	ND	N/A	≤	N/A

Notes:

1. The laboratory reports the results in terms of significant Aroclors. Included are Aroclors 1016, 1221, 1232, 1242, 1248, 1254 and 1260. This table reports total PCB Aroclors and calculates a total PCB ambient air concentration.

2. EPA Compendium Method TO-4A is for determination of pesticides and polychlorinated biphenyls in ambient air using high volume polyurethane foam (PUF) sampling followed by gas chromoatographic/multi-detector detection (GC/MD).

3. ND = "None Detected". Given the laboratory reporting limit is 0.5 ug/sample, the concentration is calculated based on this value and reported as less than this concentration.

4. As a frame of reference, the airborne concentrations observed here could be compared to the airborne concentrations observed during the previous 56/57 Demonstration Project in 1999. During that study, concentrations collected within the property boundaries of the remediation area ranged from 0.0013 to 0.0216 ug/m^3 during dredging. Baseline concentrations, obtained prior to this same dredging project ranged from 0.0003 to 0.0016 ug/m^3.

Attachment 2

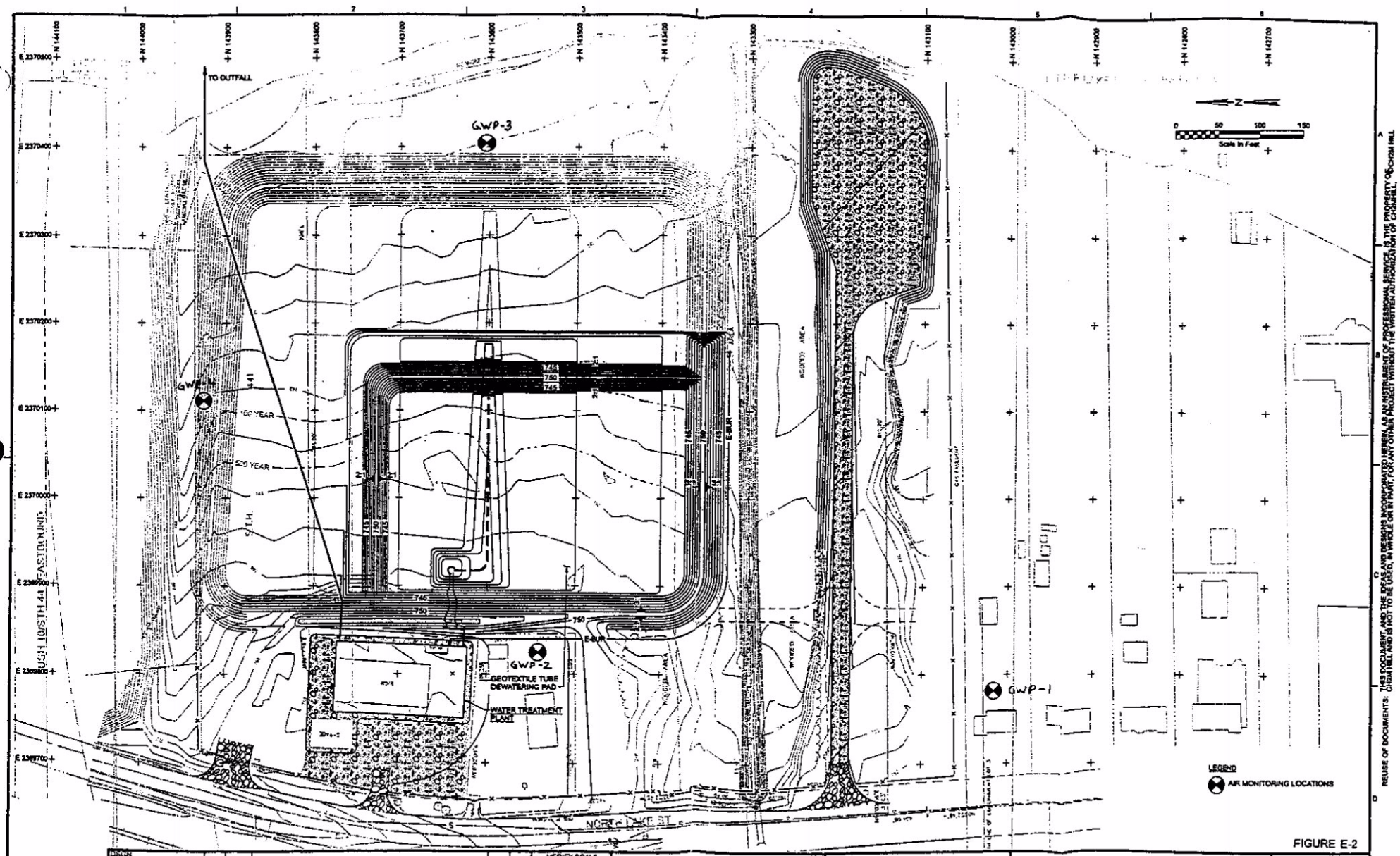


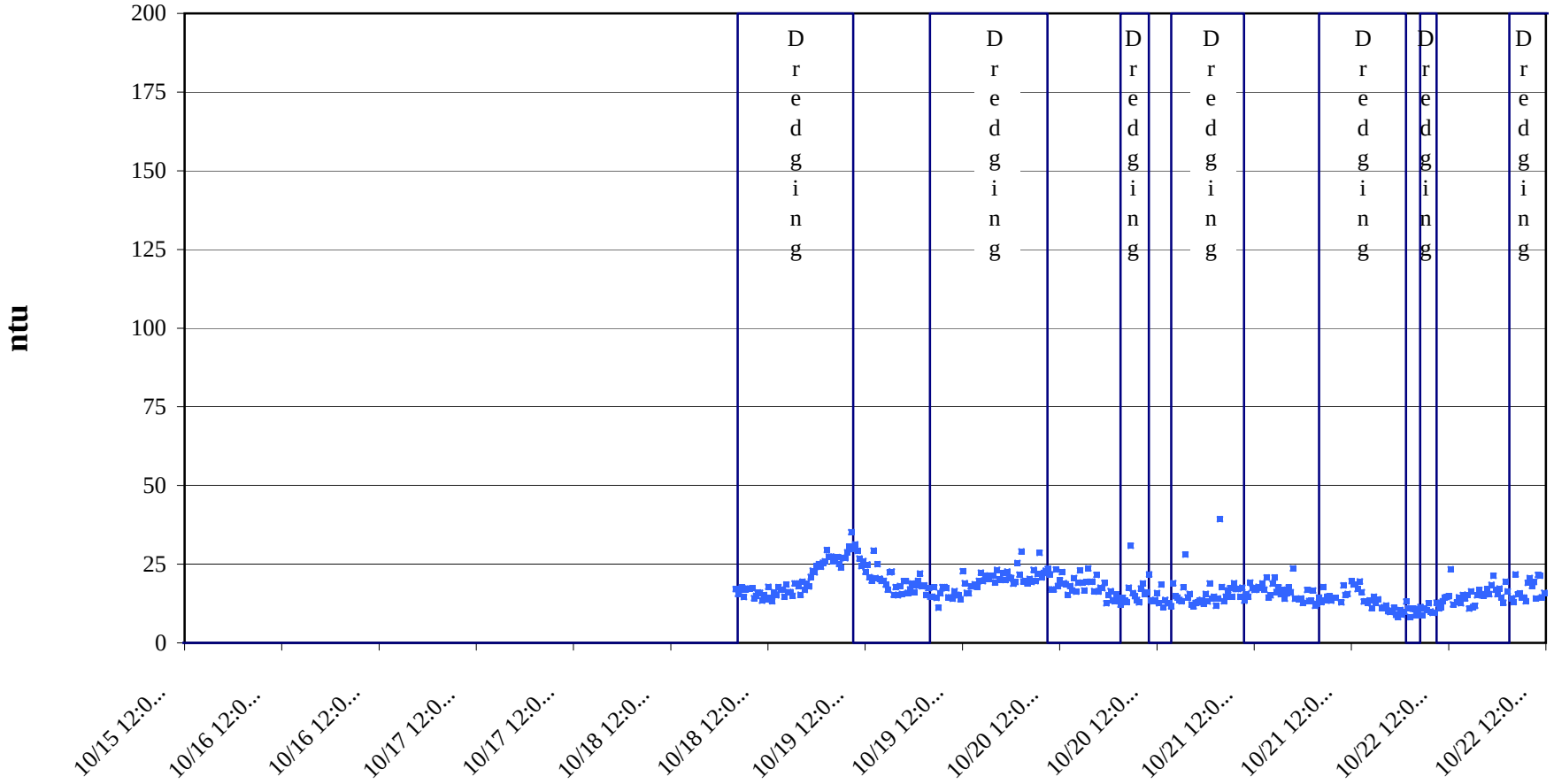
FIGURE E-2

DESIGN	C.M.LIETHEN				VERIFY SCALE	CH2MHILL	LOWER FOX RIVER (OU1) 2004 REMEDIAL ACTION TOWN OF MENASHA, WI G.W. PARTNERS, LLC	AIR MONITORING LOCATIONS	SHEET
DR	I.M.ZAEFKE				BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.				DWG C-1
CHK	D.J.PLOMB								DATE MAY 2004
APVD	S.D.LAVOLETTE	NO	DATE	REVISION	BY APVD				PROJ 315814.RA.01

FILENAME: tr5nc1416_183838.dgn PLOT DATE: 14-MAY-2004 PLOT TIME: 10:40:11

Attachment 3

Upstream Turbidity - Meter 912



This data is presented in raw unchecked form and as such Foth & Van Dyke provides no warranty, expressed or implied, as to the accuracy, reliablility or completeness of furnished data. Any use of this data is at the sole risk of the user.

Upstream Turbidity - Meter 912

10/15/2004 12:01	-	10/16/2004 12:01	-	10/17/2004 12:01	-	10/18/2004 12:01	17.8	10/19/2004 12:01	22.8	10/20/2004 12:01	15.8	10/21/2004 12:01	19.601
10/15/2004 12:16	-	10/16/2004 12:16	-	10/17/2004 12:16	-	10/18/2004 12:16	14.3	10/19/2004 12:16	19	10/20/2004 12:16	12.601	10/21/2004 12:16	18.5
10/15/2004 12:31	-	10/16/2004 12:31	-	10/17/2004 12:31	-	10/18/2004 12:31	13.2	10/19/2004 12:31	15.9	10/20/2004 12:31	18.5	10/21/2004 12:31	18.701
10/15/2004 12:46	-	10/16/2004 12:46	-	10/17/2004 12:46	-	10/18/2004 12:46	16.101	10/19/2004 12:46	15.7	10/20/2004 12:46	11.4	10/21/2004 12:46	17.101
10/15/2004 13:01	-	10/16/2004 13:01	-	10/17/2004 13:01	-	10/18/2004 13:01	15.101	10/19/2004 13:01	18	10/20/2004 13:01	13.7	10/21/2004 13:01	19.5
10/15/2004 13:16	-	10/16/2004 13:16	-	10/17/2004 13:16	-	10/18/2004 13:16	17.701	10/19/2004 13:16	17.9	10/20/2004 13:16	12.601	10/21/2004 13:16	16.101
10/15/2004 13:31	-	10/16/2004 13:31	-	10/17/2004 13:31	-	10/18/2004 13:31	16.9	10/19/2004 13:31	18.601	10/20/2004 13:31	12.601	10/21/2004 13:31	13.101
10/15/2004 13:46	-	10/16/2004 13:46	-	10/17/2004 13:46	-	10/18/2004 13:46	16.9	10/19/2004 13:46	17.8	10/20/2004 13:46	11.7	10/21/2004 13:46	13.2
10/15/2004 14:01	-	10/16/2004 14:01	-	10/17/2004 14:01	-	10/18/2004 14:01	14.7	10/19/2004 14:01	19.701	10/20/2004 14:01	19	10/21/2004 14:01	12.8
10/15/2004 14:16	-	10/16/2004 14:16	-	10/17/2004 14:16	-	10/18/2004 14:16	18.5	10/19/2004 14:16	22.3	10/20/2004 14:16	14.8	10/21/2004 14:16	13.5
10/15/2004 14:31	-	10/16/2004 14:31	-	10/17/2004 14:31	-	10/18/2004 14:31	16.201	10/19/2004 14:31	19.601	10/20/2004 14:31	14.4	10/21/2004 14:31	11.101
10/15/2004 14:46	-	10/16/2004 14:46	-	10/17/2004 14:46	-	10/18/2004 14:46	16.101	10/19/2004 14:46	21.4	10/20/2004 14:46	13.7	10/21/2004 14:46	14.7
10/15/2004 15:01	-	10/16/2004 15:01	-	10/17/2004 15:01	-	10/18/2004 15:01	14.9	10/19/2004 15:01	20.9	10/20/2004 15:01	13.2	10/21/2004 15:01	12.7
10/15/2004 15:16	-	10/16/2004 15:16	-	10/17/2004 15:16	-	10/18/2004 15:16	18.9	10/19/2004 15:16	20.4	10/20/2004 15:16	17.601	10/21/2004 15:16	13.9
10/15/2004 15:31	-	10/16/2004 15:31	-	10/17/2004 15:31	-	10/18/2004 15:31	18.9	10/19/2004 15:31	21.3	10/20/2004 15:31	28.101	10/21/2004 15:31	1070.1
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10/15/2004 16:01	-	10/16/2004 16:01	-	10/17/2004 16:01	-	10/18/2004 16:01	15.3	10/19/2004 16:01	19.201	10/20/2004 16:01	15.601	10/21/2004 16:01	11.3
10/15/2004 16:16	-	10/16/2004 16:16	-	10/17/2004 16:16	-	10/18/2004 16:16	19.4	10/19/2004 16:16	23.201	10/20/2004 16:16	12.2	10/21/2004 16:16	11.9
10/15/2004 16:31	-	10/16/2004 16:31	-	10/17/2004 16:31	-	10/18/2004 16:31	16.8	10/19/2004 16:31	20.201	10/20/2004 16:31	11.601	10/21/2004 16:31	10.101
10/15/2004 16:46	-	10/16/2004 16:46	-	10/17/2004 16:46	-	10/18/2004 16:46	19	10/19/2004 16:46	20.101	10/20/2004 16:46	12.7	10/21/2004 16:46	9.8
10/15/2004 17:01	-	10/16/2004 17:01	-	10/17/2004 17:01	-	10/18/2004 17:01	17.9	10/19/2004 17:01	22.101	10/20/2004 17:01	12.9	10/21/2004 17:01	10.3
10/15/2004 17:16	-	10/16/2004 17:16	-	10/17/2004 17:16	-	10/18/2004 17:16	21	10/19/2004 17:16	20	10/20/2004 17:16	13.4	10/21/2004 17:16	11.2
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10/15/2004 17:46	-	10/16/2004 17:46	-	10/17/2004 17:46	-	10/18/2004 17:46	22.4	10/19/2004 17:46	20.8	10/20/2004 17:46	12.4	10/21/2004 17:46	8.2
10/15/2004 18:01	-	10/16/2004 18:01	-	10/17/2004 18:01	-	10/18/2004 18:01	24.4	10/19/2004 18:01	20.601	10/20/2004 18:01	15.601	10/21/2004 18:01	10.4
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10/15/2004 18:31	-	10/16/2004 18:31	-	10/17/2004 18:31	-	10/18/2004 18:31	24.201	10/19/2004 18:31	19.3	10/20/2004 18:31	18.9	10/21/2004 18:31	10
10/15/2004 18:46	-	10/16/2004 18:46	-	10/17/2004 18:46	-	10/18/2004 18:46	25.5	10/19/2004 18:46	25.4	10/20/2004 18:46	14	10/21/2004 18:46	13.101
10/15/2004 19:01	-	10/16/2004 19:01	-	10/17/2004 19:01	-	10/18/2004 19:01	25.9	10/19/2004 19:01	21.701	10/20/2004 19:01	14.7	10/21/2004 19:01	10.9
10/15/2004 19:16	-	10/16/2004 19:16	-	10/17/2004 19:16	-	10/18/2004 19:16	29.5	10/19/2004 19:16	29.101	10/20/2004 19:16	11.8	10/21/2004 19:16	8.2
10/15/2004 19:31	-	10/16/2004 19:31	-	10/17/2004 19:31	-	10/18/2004 19:31	27.4	10/19/2004 19:31	19.5	10/20/2004 19:31	14.101	10/21/2004 19:31	10.9
10/15/2004 19:46	-	10/16/2004 19:46	-	10/17/2004 19:46	-	10/18/2004 19:46	27.4	10/19/2004 19:46	19.701	10/20/2004 19:46	39.3	10/21/2004 19:46	10.8
10/15/2004 20:01	-	10/16/2004 20:01	-	10/17/2004 20:01	-	10/18/2004 20:01	26	10/19/2004 20:01	18.9	10/20/2004 20:01	17.701	10/21/2004 20:01	8.8
10/15/2004 20:16	-	10/16/2004 20:16	-	10/17/2004 20:16	-	10/18/2004 20:16	27	10/19/2004 20:16	20.3	10/20/2004 20:16	13.2	10/21/2004 20:16	9.9
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10/15/2004 21:01	-	10/16/2004 21:01	-	10/17/2004 21:01	-	10/18/2004 21:01	23.9	10/19/2004 21:01	19.601	10/20/2004 21:01	17.4	10/21/2004 21:01	10.9
10/15/2004 21:16	-	10/16/2004 21:16	-	10/17/2004 21:16	-	10/18/2004 21:16	27.201	10/19/2004 21:16	21.9	10/20/2004 21:16	14.7	10/21/2004 21:16	10.4
10/15/2004 21:31	-	10/16/2004 21:31	-	10/17/2004 21:31	-	10/18/2004 21:31	26.9	10/19/2004 21:31	28.601	10/20/2004 21:31	19	10/21/2004 21:31	12.601
10/15/2004 21:46	-	10/16/2004 21:46	-	10/17/2004 21:46	-	10/18/2004 21:46	28.8	10/19/2004 21:46	20.8	10/20/2004 21:46	17.101	10/21/2004 21:46	10
10/15/2004 22:01	-	10/16/2004 22:01	-	10/17/2004 22:01	-	10/18/2004 22:01	30.601	10/19/2004 22:01	22.201	10/20/2004 22:01	17.101	10/21/2004 22:01	9.5
10/15/2004 22:16	-	10/16/2004 22:16	-	10/17/2004 22:16	-	10/18/2004 22:16	35.201	10/19/2004 22:16	22.9	10/20/2004 22:16	14.7	10/21/2004 22:16	9.601
10/15/2004 22:31	-	10/16/2004 22:31	-	10/17/2004 22:31	-	10/18/2004 22:31	29.8	10/19/2004 22:31	23.601	10/20/2004 22:31	17.5	10/21/2004 22:31	12.8
10/15/2004 22:46	-	10/16/2004 22:46	-	10/17/2004 22:46	-	10/18/2004 22:46	31.3	10/19/2004 22:46	21.8	10/20/2004 22:46	13.4	10/21/2004 22:46	11
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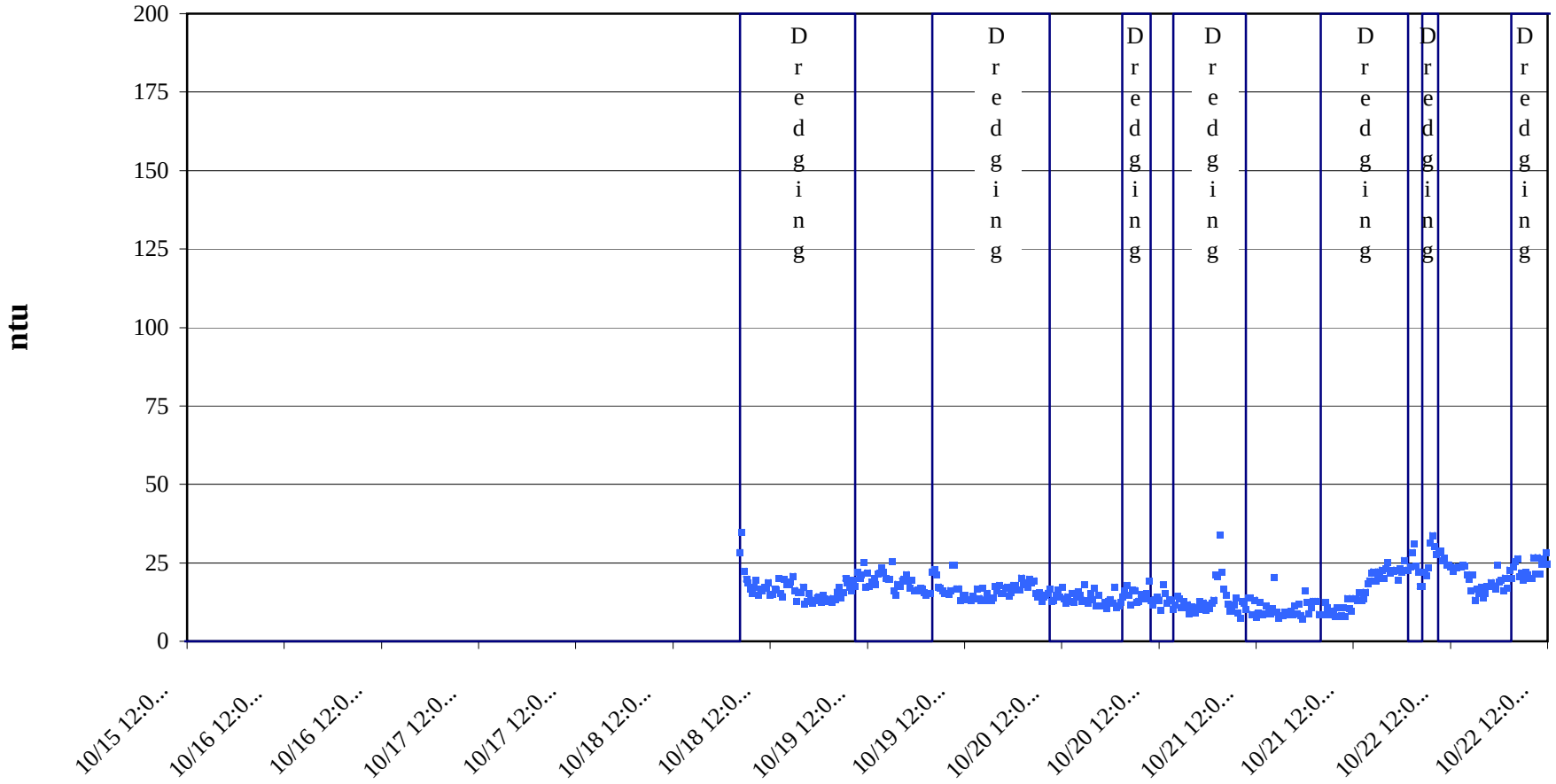
Downstream Turbidity - Meter 902



Downstream Turbidity - Meter 902

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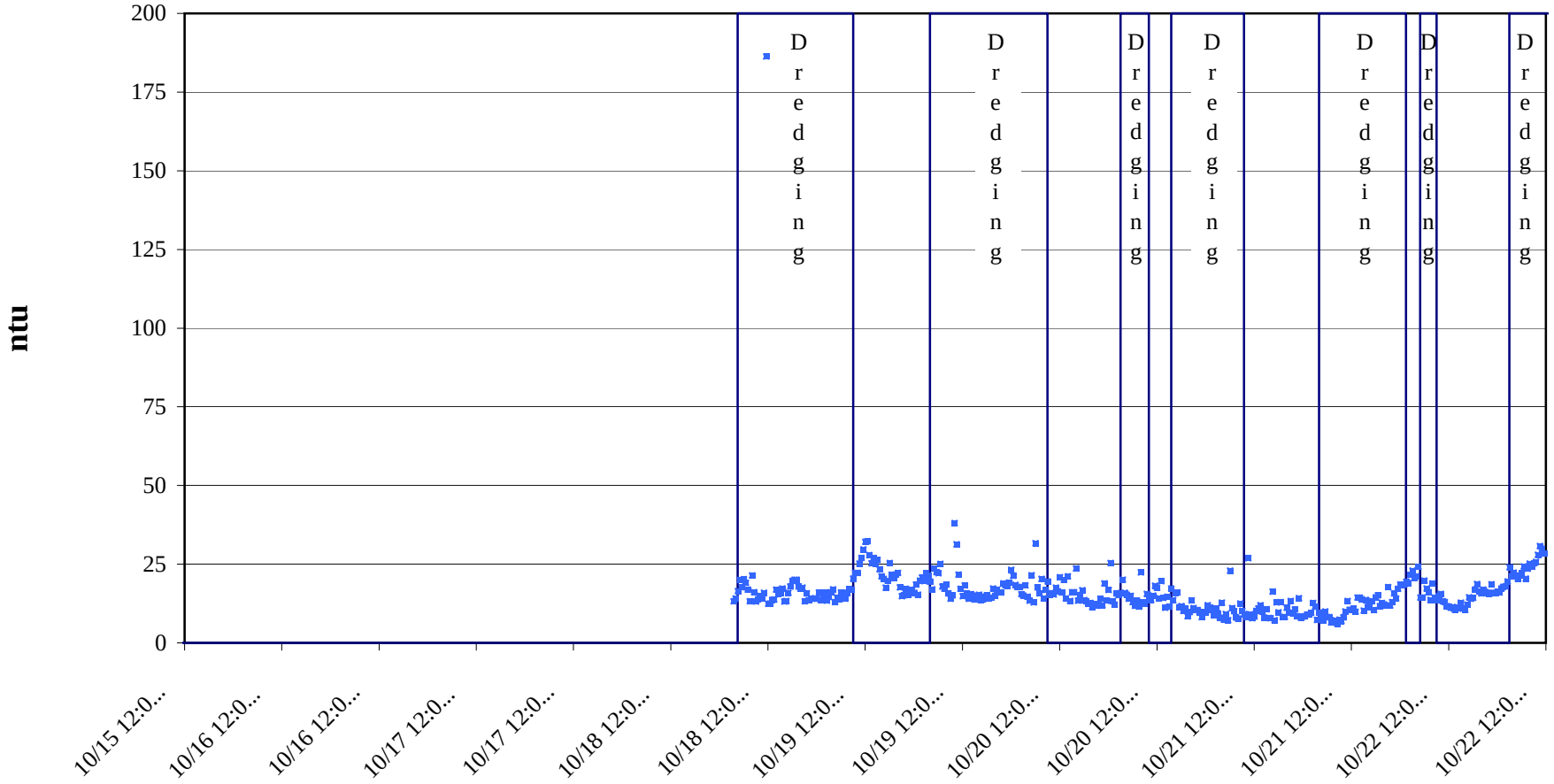
Far Downstream Turbidity - Meter 905



This data is presented in raw unchecked form and as such Foth & Van Dyke provides no warranty, expressed or implied, as to the accuracy, reliablility or completeness of furnished data. Any use of this data is at the sole risk of the user.

Far Downstream Turbidity - Meter 905

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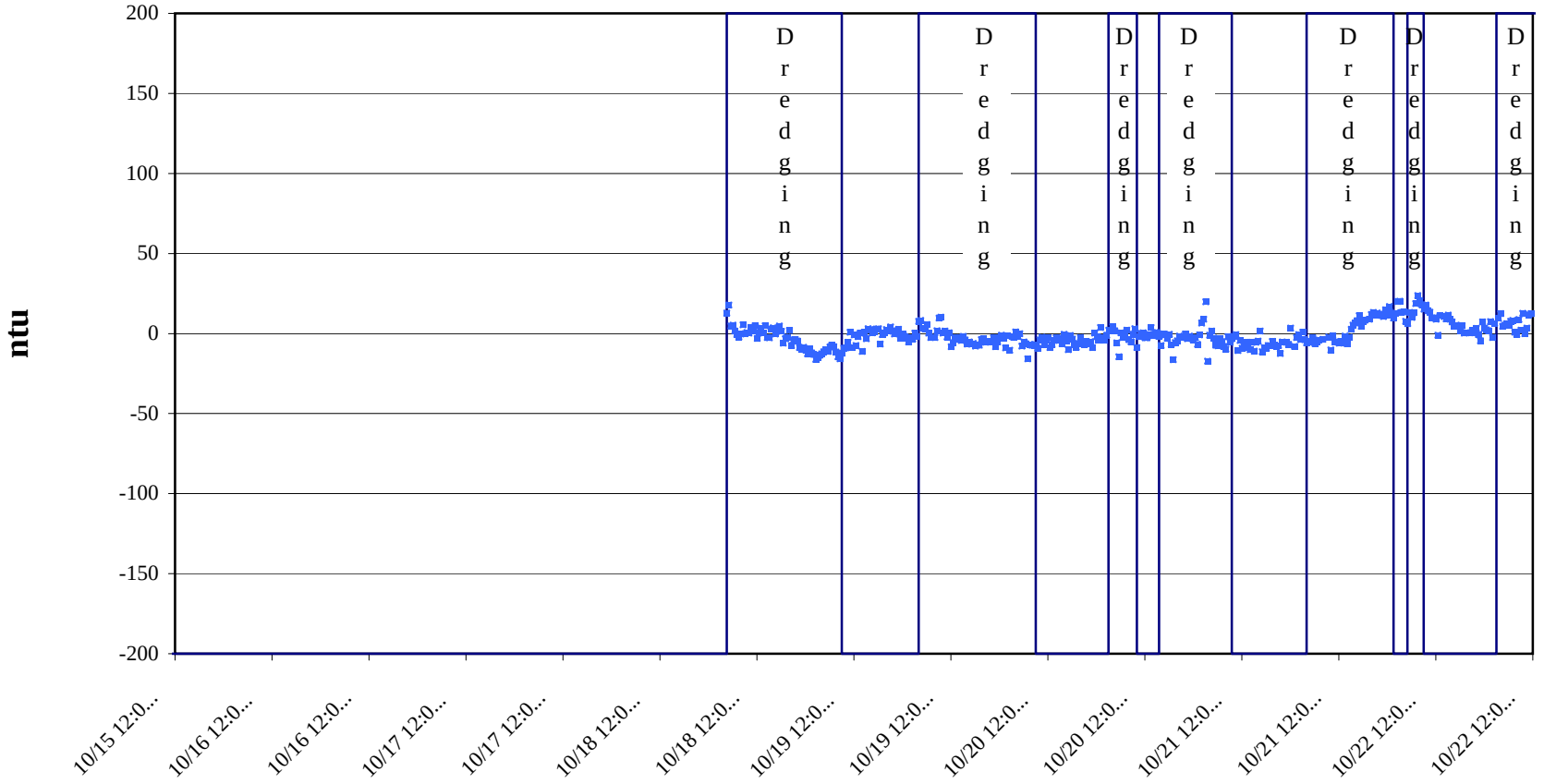
10/15/2004 21:01	-	10/16/2004 21:01	-	10/17/2004 21:01	-	10/18/2004 21:01	16	10/19/2004 21:01	31.701	10/20/2004 21:01	22.9	10/21/2004 21:01	19.8
10/15/2004 21:16	-	10/16/2004 21:16	-	10/17/2004 21:16	-	10/18/2004 21:16	15.8	10/19/2004 21:16	17.601	10/20/2004 21:16	11.101	10/21/2004 21:16	17.3
10/15/2004 21:31	-	10/16/2004 21:31	-	10/17/2004 21:31	-	10/18/2004 21:31	14	10/19/2004 21:31	15.7	10/20/2004 21:31	10.101	10/21/2004 21:31	16.101
10/15/2004 21:46	-	10/16/2004 21:46	-	10/17/2004 21:46	-	10/18/2004 21:46	15.9	10/19/2004 21:46	20.3	10/20/2004 21:46	8.101	10/21/2004 21:46	13.7
10/15/2004 22:01	-	10/16/2004 22:01	-	10/17/2004 22:01	-	10/18/2004 22:01	17.101	10/19/2004 22:01	14.101	10/20/2004 22:01	7.701	10/21/2004 22:01	18.9
10/15/2004 22:16	-	10/16/2004 22:16	-	10/17/2004 22:16	-	10/18/2004 22:16	16.8	10/19/2004 22:16	16.8	10/20/2004 22:16	12.5	10/21/2004 22:16	14.4
10/15/2004 22:31	-	10/16/2004 22:31	-	10/17/2004 22:31	-	10/18/2004 22:31	20.4	10/19/2004 22:31	19.5	10/20/2004 22:31	10.2	10/21/2004 22:31	13.7
10/15/2004 22:46	-	10/16/2004 22:46	-	10/17/2004 22:46	-	10/18/2004 22:46	22.201	10/19/2004 22:46	15.3	10/20/2004 22:46	9.2	10/21/2004 22:46	14.9
10/15/2004 23:01	-	10/16/2004 23:01	-	10/17/2004 23:01	-	10/18/2004 23:01	22.201	10/19/2004 23:01	15.8	10/20/2004 23:01	8.2	10/21/2004 23:01	15.601
10/15/2004 23:16	-	10/16/2004 23:16	-	10/17/2004 23:16	-	10/18/2004 23:16	25.201	10/19/2004 23:16	15.4	10/20/2004 23:16	26.9	10/21/2004 23:16	13.2
10/15/2004 23:31	-	10/16/2004 23:31	-	10/17/2004 23:31	-	10/18/2004 23:31	27	10/19/2004 23:31	17.5	10/20/2004 23:31	9.101	10/21/2004 23:31	13
10/15/2004 23:46	-	10/16/2004 23:46	-	10/17/2004 23:46	-	10/18/2004 23:46	29.701	10/19/2004 23:46	16.4	10/20/2004 23:46	7.801	10/21/2004 23:46	11.7
10/16/2004 0:01	-	10/17/2004 0:01	-	10/18/2004 0:01	-	10/19/2004 0:01	32.1	10/20/2004 0:01	20.9	10/21/2004 0:01	8.4	10/22/2004 0:01	11.5
10/16/2004 0:16	-	10/17/2004 0:16	-	10/18/2004 0:16	-	10/19/2004 0:16	32.3	10/20/2004 0:16	16	10/21/2004 0:16	10.2	10/22/2004 0:16	11.2
10/16/2004 0:31	-	10/17/2004 0:31	-	10/18/2004 0:31	-	10/19/2004 0:31	27.9	10/20/2004 0:31	20.101	10/21/2004 0:31	11	10/22/2004 0:31	11.101
10/16/2004 0:46	-	10/17/2004 0:46	-	10/18/2004 0:46	-	10/19/2004 0:46	25.3	10/20/2004 0:46	14.101	10/21/2004 0:46	12	10/22/2004 0:46	10.5
10/16/2004 1:01	-	10/17/2004 1:01	-	10/18/2004 1:01	-	10/19/2004 1:01	27	10/20/2004 1:01	21.101	10/21/2004 1:01	9.9	10/22/2004 1:01	11.4
10/16/2004 1:16	-	10/17/2004 1:16	-	10/18/2004 1:16	-	10/19/2004 1:16	25.201	10/20/2004 1:16	13.3	10/21/2004 1:16	8	10/22/2004 1:16	11.101
10/16/2004 1:31	-	10/17/2004 1:31	-	10/18/2004 1:31	-	10/19/2004 1:31	26.4	10/20/2004 1:31	16.101	10/21/2004 1:31	10.7	10/22/2004 1:31	12.8
10/16/2004 1:46	-	10/17/2004 1:46	-	10/18/2004 1:46	-	10/19/2004 1:46	23.4	10/20/2004 1:46	16.101	10/21/2004 1:46	7.901	10/22/2004 1:46	10.9
10/16/2004 2:01	-	10/17/2004 2:01	-	10/18/2004 2:01	-	10/19/2004 2:01	21.101	10/20/2004 2:01	23.701	10/21/2004 2:01	7.801	10/22/2004 2:01	10.5
10/16/2004 2:16	-	10/17/2004 2:16	-	10/18/2004 2:16	-	10/19/2004 2:16	20.3	10/20/2004 2:16	13.4	10/21/2004 2:16	16.3	10/22/2004 2:16	12.101
10/16/2004 2:31	-	10/17/2004 2:31	-	10/18/2004 2:31	-	10/19/2004 2:31	17.5	10/20/2004 2:31	15.2	10/21/2004 2:31	7.201	10/22/2004 2:31	14.5
10/16/2004 2:46	-	10/17/2004 2:46	-	10/18/2004 2:46	-	10/19/2004 2:46	19.8	10/20/2004 2:46	16.701	10/21/2004 2:46	12.9	10/22/2004 2:46	14
10/16/2004 3:01	-	10/17/2004 3:01	-	10/18/2004 3:01	-	10/19/2004 3:01	25.4	10/20/2004 3:01	13.601	10/21/2004 3:01	9.7	10/22/2004 3:01	14.3
10/16/2004 3:16	-	10/17/2004 3:16	-	10/18/2004 3:16	-	10/19/2004 3:16	21.701	10/20/2004 3:16	13.2	10/21/2004 3:16	13	10/22/2004 3:16	16.9
10/16/2004 3:31	-	10/17/2004 3:31	-	10/18/2004 3:31	-	10/19/2004 3:31	20.701	10/20/2004 3:31	12.4	10/21/2004 3:31	8.2	10/22/2004 3:31	18.701
10/16/2004 3:46	-	10/17/2004 3:46	-	10/18/2004 3:46	-	10/19/2004 3:46	21.701	10/20/2004 3:46	12.7	10/21/2004 3:46	8.3	10/22/2004 3:46	16.5
10/16/2004 4:01	-	10/17/2004 4:01	-	10/18/2004 4:01	-	10/19/2004 4:01	22.201	10/20/2004 4:01	11.4	10/21/2004 4:01	11.2	10/22/2004 4:01	15.7
10/16/2004 4:16	-	10/17/2004 4:16	-	10/18/2004 4:16	-	10/19/2004 4:16	17.601	10/20/2004 4:16	12.3	10/21/2004 4:16	9.601	10/22/2004 4:16	16.9
10/16/2004 4:31	-	10/17/2004 4:31	-	10/18/2004 4:31	-	10/19/2004 4:31	14.8	10/20/2004 4:31	11.8	10/21/2004 4:31	13.3	10/22/2004 4:31	16.201
10/16/2004 4:46	-	10/17/2004 4:46	-	10/18/2004 4:46	-	10/19/2004 4:46	15.101	10/20/2004 4:46	12.2	10/21/2004 4:46	9.4	10/22/2004 4:46	15.9
10/16/2004 5:01	-	10/17/2004 5:01	-	10/18/2004 5:01	-	10/19/2004 5:01	17.201	10/20/2004 5:01	14	10/21/2004 5:01	10.601	10/22/2004 5:01	15.601
10/16/2004 5:16	-	10/17/2004 5:16	-	10/18/2004 5:16	-	10/19/2004 5:16	15.3	10/20/2004 5:16	12	10/21/2004 5:16	8.5	10/22/2004 5:16	18.601
10/16/2004 5:31	-	10/17/2004 5:31	-	10/18/2004 5:31	-	10/19/2004 5:31	16.101	10/20/2004 5:31	18.9	10/21/2004 5:31	14.2	10/22/2004 5:31	15.9
10/16/2004 5:46	-	10/17/2004 5:46	-	10/18/2004 5:46	-	10/19/2004 5:46	16.8	10/20/2004 5:46	13.4	10/21/2004 5:46	8	10/22/2004 5:46	15.9
10/16/2004 6:01	-	10/17/2004 6:01	-	10/18/2004 6:01	-	10/19/2004 6:01	15.9	10/20/2004 6:01	16.8	10/21/2004 6:01	8.4	10/22/2004 6:01	16.3
10/16/2004 6:16	-	10/17/2004 6:16	-	10/18/2004 6:16	-	10/19/2004 6:16	18.5	10/20/2004 6:16	25.4	10/21/2004 6:16	8.5	10/22/2004 6:16	16
10/16/2004 6:31	-	10/17/2004 6:31	-	10/18/2004 6:31	-	10/19/2004 6:31	15.3	10/20/2004 6:31	13.2	10/21/2004 6:31	9	10/22/2004 6:31	17.3
10/16/2004 6:46	-	10/17/2004 6:46	-	10/18/2004 6:46	-	10/19/2004 6:46	19.8	10/20/2004 6:46	12.101	10/21/2004 6:46	9	10/22/2004 6:46	17.8
10/16/2004 7:01	-	10/17/2004 7:01	-	10/18/2004 7:01	-	10/19/2004 7:01	20.8	10/20/2004 7:01	15.7	10/21/2004 7:01	9.5	10/22/2004 7:01	18
10/16/2004 7:16	-	10/17/2004 7:16	-	10/18/2004 7:16	-	10/19/2004 7:16	19.601	10/20/2004 7:16	15.2	10/21/2004 7:16	12.7	10/22/2004 7:16	19.5
10/16/2004 7:31	-	10/17/2004 7:31	-	10/18/2004 7:31	-	10/19/2004 7:31	22.101	10/20/2004 7:31	15.8	10/21/2004 7:31	11.5	10/22/2004 7:31	24
10/16/2004 7:46	-	10/17/2004 7:46	-	10/18/2004 7:46	13.2	10/19/2004 7:46	21.4	10/20/2004 7:46	20.101	10/21/2004 7:46	7.301	10/22/2004 7:46	21.101
10/16/2004 8:01	-	10/17/2004 8:01	-	10/18/2004 8:01	14.101	10/19/2004 8:01	19.4	10/20/2004 8:01	15.9	10/21/2004 8:01	9.601	10/22/2004 8:01	22.3
10/16/2004 8:16	-	10/17/2004 8:16	-	10/18/2004 8:16	16.5	10/19/2004 8:16	17	10/20/2004 8:16	15.3	10/21/2004 8:16	8.101	10/22/2004 8:16	21.3
10/16/2004 8:31	-	10/17/2004 8:31	-	10/18/2004 8:31	20	10/19/2004 8:31	23.701	10/20/2004 8:31	14	10/21/2004 8:31	7.101	10/22/2004 8:31	20.4
10/16/2004 8:46	-	10/17/2004 8:46	-	10/18/2004 8:46	17.601	10/19/2004 8:46	22.5	10/20/2004 8:46	14.9	10/21/2004 8:46	10	10/22/2004 8:46	21.4
10/16/2004 9:01	-	10/17/2004 9:01	-	10/18/2004 9:01	20.201	10/19/2004 9:01	22.101	10/20/2004 9:01	13	10/21/2004 9:01	8.2	10/22/2004 9:01	22.101
10/16/2004 9:16	-	10/17/2004 9:16	-	10/18/2004 9:16	19.101	10/19/2004 9:16	25.101	10/20/2004 9:16	11.8	10/21/2004 9:16	8.2	10/22/2004 9:16	24.3
10/16/2004 9:31	-	10/17/2004 9:31	-	10/18/2004 9:31	16.9	10/19/2004 9:31	17.9	10/20/2004 9:31	13.4	10/21/2004 9:31	6.501	10/22/2004 9:31	20.4
10/16/2004 9:46	-	10/17/2004 9:46	-	10/18/2004 9:46	13.2	10/19/2004 9:46	17.3	10/20/2004 9:46	11.5	10/21/2004 9:46	6.701	10/22/2004 9:46	23.601
10/16/2004 10:01	-	10/17/2004 10:01	-	10/18/2004 10:01	21.4	10/19/2004 10:01	18.5	10/20/2004 10:01	22.4	10/21/2004 10:01	7.201	10/22/2004 10:01	25.201
10/16/2004 10:16	-	10/17/2004 10:16	-	10/18/2004 10:16	16.101	10/19/2004 10:16	15.7	10/20/2004 10:16	12.9	10/21/2004 10:16	6.001	10/22/2004 10:16	24.3
10/16/2004 10:31	-	10/17/2004 10:31	-	10/18/2004 10:31	13.101	10/19/2004 10:31	14	10/20/2004 10:31	12.5	10/21/2004 10:31	7.401	10/22/2004 10:31	25.3
10/16/2004 10:46	-	10/17/2004 10:46	-	10/18/2004 10:46	13.9	10/19/2004 10:46	15.101	10/20/2004 10:46	15.601	10/21/2004 10:46	6.901	10/22/2004 10:46	25.701
10/16/2004 11:01	-	10/17/2004 11:01	-	10/18/2004 11:01	14.9	10/19/2004 11:01	38.1	10/20/2004 11:01	14.4	10/21/2004 11:01	8.101	10/22/2004 11:01	28
10/16/2004 11:16	-	10/17/2004 11:16	-	10/18/2004 11:16	14.2	10/19/2004 11:16	31.3	10/20/2004 11:16	13.7	10/21/2004 11:16	10	10/22/2004 11:16	30.8
10/16/2004 11:31	-	10/17/2004 11:31	-	10/18/2004 11:31	15.9	10/19/2004 11:31	21.701	10/20/2004 11:31	15	10/21/2004 11:31	13.3	10/22/2004 11:31	29.9
10/16/2004 11:46	-	10/17/2004 11:46	-	10/18/2004 11:46	186.301	10/19/2004 11:46	17.201	10/20/2004 11:46	18.201	10/21/2004 11:46	10.5	10/22/2004 11:46	28.3
												10/22/2004 12:01	30.201

Turbidity
Downstream/Upstream Difference
(Downstream Minus Upstream)



This data is presented in raw unchecked form and as such Foth & Van Dyke provides no warranty, expressed or implied, as to the accuracy, reliablility or completeness of furnished data. Any use of this data is at the sole risk of the user.

Attachment 4

GW Partners
Lower Fox River - OU-1
04G007
TSS and Field Turbidity - Draft and Preliminary

Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
8/30/2004	13:47	19.8	19	25	6	912	Calm (0-5 mph)	1 RA 04 DEWT SW 1 - 912
8/30/2004	13:54	19.1	24	22	-2	902	Calm (0-5 mph)	1 RA 04 DEWT SW 2 - 902
8/30/2004	14:01	20.1	18	23	5	905	Calm (0-5 mph)	1 RA 04 DEWT SW 3 - 905
8/31/2004	19:32	12.0	13.5	15	1.5	912	Calm (0-5 mph)	1 RA 04 DEWT SW 4 - 912
8/31/2004	19:40	18.2	23	25	2	902	Calm (0-5 mph)	1 RA 04 DEWT SW 5 - 902
				24				1 RA 04 DEWT SW 5Dup - 902
8/31/2004	19:47	12.8	13.5	17	3.5	905	Calm (0-5 mph)	1 RA 04 DEWT SW 6 - 905
				<1.0				1 RA 04 DEWT SW 7RINSE - 905
9/1/2004	12:56	24.2	23	28	5	912	Calm (0-5 mph)	1 RA 04 DEWT SW 8 - 912
9/1/2004	13:08	51.1	39	36	-3	902	Calm (0-5 mph)	1 RA 04 DEWT SW 9 - 902
9/1/2004	13:15	22.8	21.6	25	3.4	905	Calm (0-5 mph)	1 RA 04 DEWT SW 10 - 905
9/2/2004	12:16	22.4	23	26	3	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 11 - 912
9/2/2004	12:31	34.4	35	41	6	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 12 - 902
9/2/2004	12:44	33.3	30	31	1	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 13 - 905
9/3/2004	11:55	21.1	18	20	2	912	Calm (0-10 mph)	1 RA 04 DEWT SW 14 - 912
9/3/2004	12:05	39.7	30	28	-2	902	Calm (0-10 mph)	1 RA 04 DEWT SW 15 - 902
				28				1 RA 04 DEWT SW 15Dup - 902
9/3/2004	12:13	16.6	18	20	2	905	Calm (0-10 mph)	1 RA 04 DEWT SW 16 - 905
				<1.0				1 RA 04 DEWT SW 16RINSE - 905
9/7/2004	7:22	20	32.6		NA	902	Calm (0-10 mph)	NA
9/7/2004	7:26	20.7	33		NA	905	Calm (0-10 mph)	NA
9/7/2004	7:51	15.5	28.5		NA	912	Calm (0-10 mph)	NA
9/7/2004	11:52	18.7		24	5.3	912	Calm (0-10 mph)	1 RA 04 DEWT SW 18 - 912
9/7/2004	12:07	25		29	4	902	Calm (0-10 mph)	1 RA 04 DEWT SW 19 - 902
9/7/2004	12:15	22.7		23	0.3	905	Calm (0-10 mph)	1 RA 04 DEWT SW 20 - 905
9/8/2004	11:39	51.3		58	6.7	912	Windy (15-20 mph)	1 RA 04 DEWT SW 21 - 912
9/8/2004	11:50	36		42	6	902	Windy (15-20 mph)	1 RA 04 DEWT SW 22 - 902
9/8/2004	11:56	39.9		48	8.1	905	Windy (15-20 mph)	1 RA 04 DEWT SW 23 - 905
9/9/2004	11:11	31.8	33	25	-8	912	Calm (0-5 mph)	1 RA 04 DEWT SW 24 - 912
9/9/2004	11:20	24	26	25	-1	902	Calm (0-5 mph)	1 RA 04 DEWT SW 25 - 902
9/9/2004	11:35	23.2	26	24	-2	905	Calm (0-5 mph)	1 RA 04 DEWT SW 26 - 905
9/10/2004	9:36	23.5	26	21	-5	912	Windy (10-20 mph)	1 RA 04 DEWT SW 27 - 912
9/10/2004	9:48	1100	35	22	-13	902	Windy (10-20 mph)	1 RA 04 DEWT SW 28 - 902
				23				1 RA 04 DEWT SW 28Dup - 902
9/10/2004	10:00	657	30	24	-6	905	Windy (10-20 mph)	1 RA 04 DEWT SW 29 - 905
				<1.0				1 RA 04 DEWT SW 30RINSE - 905
9/11/2004	9:43	23	30	21	-9	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 31 - 912
9/11/2004	9:53	21.7	32	24	-8	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 32 - 902
9/11/2004	10:01	44.1	33	27	-6	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 33 - 905
9/14/2004	10:43	18.8	20.5	23	2.5	912	Windy (10-20 mph)	1 RA 04 000A SW 34 - 912
9/14/2004	10:52	20	18.6	22	3.4	902	Windy (10-20 mph)	1 RA 04 000A SW 35 - 902
9/14/2004	11:01	16	16.8	21	4.2	905	Windy (10-20 mph)	1 RA 04 000A SW 36 - 905
9/15/2004	11:16	36.9	35.9	16	-19.9	912	Windy (15-25 mph)	1 RA 04 000A SW 37 - 912
9/15/2004	11:31	23.9	23	26	3	902	Windy (15-25 mph)	1 RA 04 000A SW 38 - 902
9/15/2004	11:45	24.9	25.5	26	0.5	905	Windy (15-25 mph)	1 RA 04 000A SW 39 - 905
9/16/2004	9:30	36	36	44	8	912	Breezy (5-15 mph)	1 RA 04 000A SW 40 - 912
9/16/2004	9:55	26	26	28	2	902	Breezy (5-15 mph)	1 RA 04 000A SW 41 - 902
				27				1 RA 04 000A SW 41Dup - 902
9/16/2004	10:03	34.5	34.5	34	-0.5	905	Breezy (5-15 mph)	1 RA 04 000A SW 42 - 905
				<1.0				1 RA 04 000A SW 43RINSE - 905
9/17/2004	10:32	18.2	36	15	-21	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 44 - 912
9/17/2004	10:58	17.6	17	16	-1	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 45 - 902
9/17/2004	11:08	15.3	17	14	-3	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 46 - 905
9/20/2004	12:57	39.2	36	45	9	912	Breezy (5-15 mph)	1 RA 04 000A SW 47 - 912
9/20/2004	12:31	32.4	37	35	-2	902	Breezy (5-15 mph)	1 RA 04 000A SW 48 - 902
				35				1 RA 04 000A SW 48Dup - 902
9/20/2004	12:22	31.7	36	36	0	905	Breezy (5-15 mph)	1 RA 04 000A SW 49 - 905
				1.2				1 RA 04 000A SW 50RINSE - 905
9/21/2004	10:08	39.4	38	40	2	905	Breezy (5-15 mph)	1 RA 04 000A SW 51 - 905
9/21/2004	10:21	35.4	42	38	-4	902	Breezy (5-15 mph)	1 RA 04 000A SW 52 - 902
9/21/2004	10:35	41.7	36	52	16	912	Breezy (5-15 mph)	1 RA 04 000A SW 53 - 912
9/22/2004	10:13	21.8	24	22	-2	905	Calm (0-5 mph)	1 RA 04 000A SW 54 - 905
9/22/2004	10:23	21.3	23	24	1	902	Calm (0-5 mph)	1 RA 04 000A SW 55 - 902
9/22/2004	10:38	18.5	36	28	-8	912	Calm (0-5 mph)	1 RA 04 000A SW 56 - 912
9/23/2004	11:11	15.1	19	16	-3	905	Breezy (5-15 mph)	1 RA 04 000A SW 57 - 905
9/23/2004	11:23	31.7	20	19	-1	902	Breezy (5-15 mph)	1 RA 04 000A SW 58 - 902
9/23/2004	12:17	26.6	27	29	2	912	Breezy (5-15 mph)	1 RA 04 000A SW 59 - 912

GW Partners
Lower Fox River - OU-1
04G007
TSS and Field Turbidity - Draft and Preliminary

Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
9/24/2004	9:35	18.2	19.5	22	2.5	905	Calm (0-5 mph)	1 RA 04 000A SW 60 - 905
9/24/2004	9:44	34.8	27.8	30	2.2	902	Calm (0-5 mph)	1 RA 04 000A SW 61 - 902
				30				1 RA 04 000A SW 61Dup - 902
9/24/2004	10:02	39.1	47	72	25	912	Calm (0-5 mph)	1 RA 04 000A SW 62 - 912
				1.3				1 RA 04 000A SW 63RINSE - 912
9/27/2004	11:10	11.6	12.5	14	1.5	905	Calm (0-5 mph)	1 RA 04 000A SW 64 - 905
9/27/2004	11:21	53.1	16.5	16	-0.5	902	Calm (0-5 mph)	1 RA 04 000A SW 65 - 902
9/27/2004	11:36	14.3	20	22	2	912	Calm (0-5 mph)	1 RA 04 000A SW 66 - 912
9/27/2004	11:46	11.6			NA	902	Calm (0-5 mph)	NA
9/27/2004	13:01	17.2			NA	902	Calm (0-5 mph)	NA
9/28/2004	11:31	33.9	38	32	-6	905	Windy (15-20 mph)	1 RA 04 000A SW 67 - 905
9/28/2004	11:38	38.7	41	33	-8	902	Windy (15-20 mph)	1 RA 04 000A SW 68 - 902
				33				1 RA 04 000A SW 68Dup - 902
9/28/2004	11:48	33.4	34	44	10	912	Windy (15-20 mph)	1 RA 04 000A SW 69 - 912
				1.2				1 RA 04 000A SW 70RINSE - 912
9/29/2004	11:38	17.3	20.5	20	-0.5	905	Calm (0-5 mph)	1 RA 04 000A SW 71 - 905
9/29/2004	11:46	19.3	27.8	23	-4.8	902	Calm (0-5 mph)	1 RA 04 000A SW 72 - 902
9/29/2004	12:22	14.2	14.5	33	18.5	912	Calm (0-5 mph)	1 RA 04 000A SW 73 - 912
9/29/2004	12:31	14.3			NA	902	Calm (0-5 mph)	NA
9/30/2004	10:20	24.6		24	-0.6	905	Calm (0-5 mph)	1 RA 04 000A SW 74 - 905
9/30/2004	10:30	18.6		22	3.4	902	Calm (0-5 mph)	1 RA 04 000A SW 75 - 902
9/30/2004	10:50	11.3		19	7.7	912	Calm (0-5 mph)	1 RA 04 000A SW 76 - 912
10/1/2004	10:34	24.9	27	22	-5	905	Breezy (10-15 mph)	1 RA 04 000A SW 77 - 905
10/1/2004	10:45	31.8	38	35	-3	902	Breezy (10-15 mph)	1 RA 04 000A SW 78 - 902
				34				1 RA 04 000A SW 78Dup - 902
10/1/2004	11:03	34	34	34	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 79 - 912
				<1.0				1 RA 04 000A SW 80RINSE - 912
10/4/2004	10:21	31.2	21.5	27	5.5	905	Breezy (10-15 mph)	1 RA 04 000A SW 81 - 905
10/4/2004	10:27	27.5	22.2	28	5.8	902	Breezy (10-15 mph)	1 RA 04 000A SW 82 - 902
10/4/2004	10:58	32.7	34	34	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 83 - 912
10/6/2004	9:09	22	24.5	26	1.5	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 84 - 905
10/6/2004	9:24	22	25.5	24	-1.5	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 85 - 902
				22				1 RA 04 000A SW 85Dup - 902
10/6/2004	9:49	26	29	31	2	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 86 - 912
				<2.0				1 RA 04 000A SW 87RINSE - 912
10/7/2004	9:55	24	24.6	22	-2.6	905	Calm (0-7 mph)	1 RA 04 000A SW 88 - 905
10/7/2004	10:11	23	19.9	23	3.1	902	Calm (0-7 mph)	1 RA 04 000A SW 89 - 902
10/7/2004	10:34	70	72.9	90	17.1	912	Calm (0-7 mph)	1 RA 04 000A SW 90 - 912
10/8/2004	11:24	85	75.5	55	-20.5	905	Calm (0-8 mph)	1 RA 04 000A SW 91 - 905
10/8/2004	11:38	66	66.6	54	-12.6	902	Calm (0-8 mph)	1 RA 04 000A SW 92 - 902
10/8/2004	11:54	91	83.1	150	66.9	912	Calm (0-8 mph)	1 RA 04 000A SW 93 - 912
10/11/2004	10:36	46	45.9	29	-16.9	905	Calm (0-5 mph)	1 RA 04 000A SW 94 - 905
10/11/2004	10:58	43	40	32	-8	902	Calm (0-5 mph)	1 RA 04 000A SW 95 - 902
10/11/2004	11:18	90	72.1	85	12.9	912	Calm (0-5 mph)	1 RA 04 000A SW 96 - 912
10/12/2004	12:27	27	28.3	28	-0.3	905	Very Calm (0-3 mph)	1 RA 04 000A SW 97 - 905
10/12/2004	12:35	30	24.1	86	61.9	902	Very Calm (0-3 mph)	1 RA 04 000A SW 98 - 902
				62				1 RA 04 000A SW 98Dup - 902
10/12/2004	12:49	90	95.4	130	34.6	912	Very Calm (0-3 mph)	1 RA 04 000A SW 99 - 912
				<2.0				1 RA 04 000A SW 100RINSE - 912
10/13/2004	10:01	23	13.4	17	3.6	905	Very Calm (0-3 mph)	1 RA 04 000A SW 101 - 905
10/13/2004	10:16	38	31.3	17	-14.3	902	Very Calm (0-3 mph)	1 RA 04 000A SW 102 - 902
10/13/2004	10:31	81	62.4	55	-7.4	912	Very Calm (0-3 mph)	1 RA 04 000A SW 103 - 912
10/14/2004	8:57	46	50.6	38	-12.6	905	Breezy (10-15 mph)	1 RA 04 000A SW 104 - 905
10/14/2004	9:05	45	52.3	42	-10.3	902	Breezy (10-15 mph)	1 RA 04 000A SW 105 - 902
10/14/2004	9:23	160	177.1	160	-17.1	912	Breezy (10-15 mph)	1 RA 04 000A SW 106 - 912
10/18/2004	9:35	17	16.9	17	0.1	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 107 - 905
10/18/2004	9:45	17.8	15.2	18	2.8	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 108 - 902
10/18/2004	9:54	21.5	17.4	16	-1.4	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 109 - 912
10/19/2004	9:49	21	25.1	24	-1.1	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 110 - 905
10/19/2004	9:29	16.5	15.3	17	1.7	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 111 - 902
				17				1 RA 04 000A SW 111Dup - 902
10/19/2004	9:21	16	17.7	13	-4.7	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 112 - 912
				<2.0				1 RA 04 000A SW 113RINSE - 912
10/20/2004	9:35	13.2	13.4	14	0.6	905	Very Calm (0-3 mph)	1 RA 04 000A SW 114 - 905
10/20/2004	9:46	14.5	15	15	0	902	Very Calm (0-3 mph)	1 RA 04 000A SW 115 - 902
10/20/2004	9:55	17.3	17.3	17	-0.3	912	Very Calm (0-3 mph)	1 RA 04 000A SW 116 - 912
10/21/2004	11:47	13	10.5			905	Calm (0-7 mph)	1 RA 04 000A SW 117 - 905

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

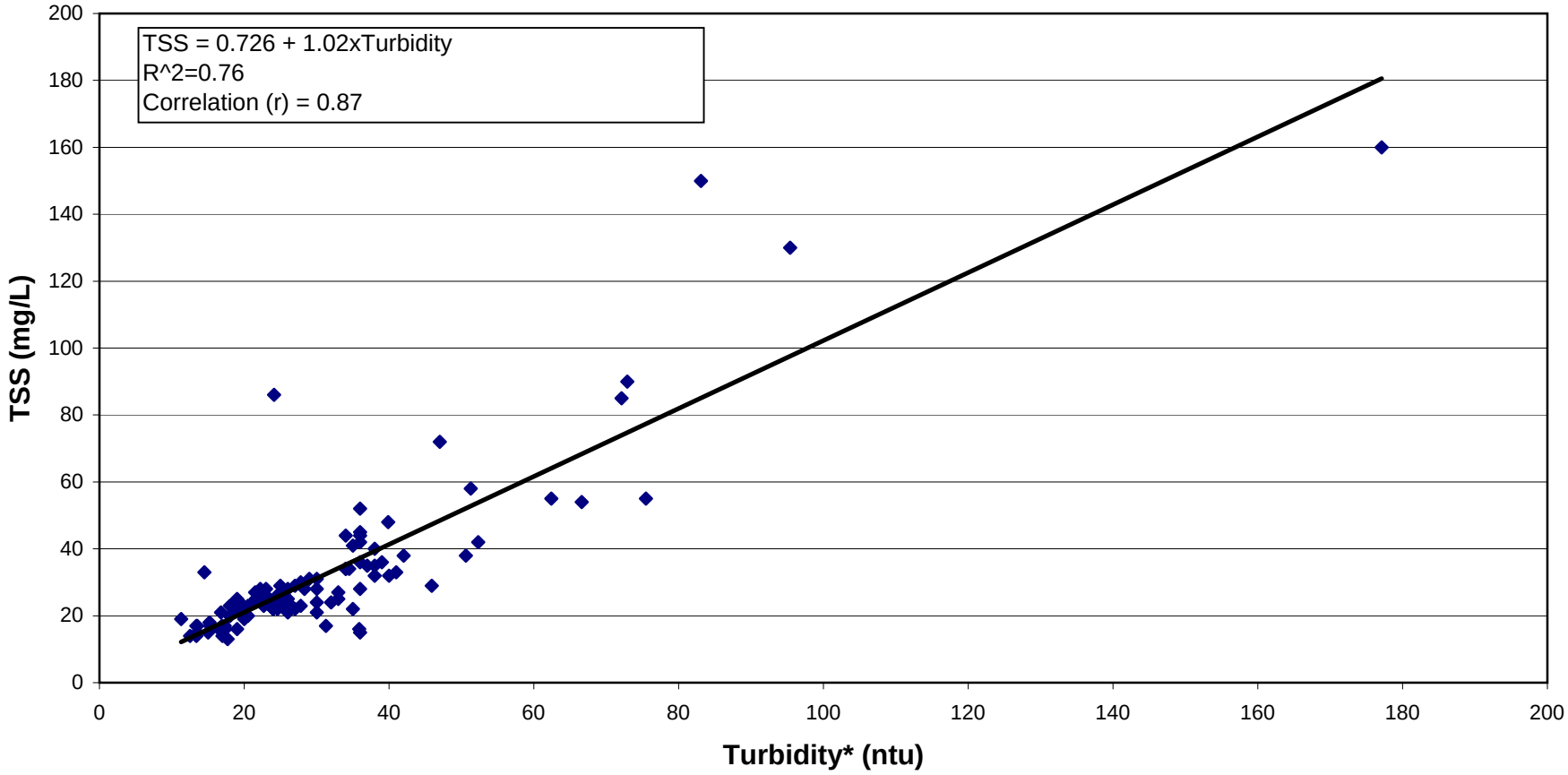
Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
10/21/2004	12:01	13.3	13.6			902	Calm (0-7 mph)	1 RA 04 000A SW 118 - 902
10/21/2004	12:16	15.5	18.5			912	Calm (0-7 mph)	1 RA 04 000A SW 119 - 912
10/22/2004	9:54	24.8	25.2			905	Breezy (10-15 mph)	1 RA 04 000A SW 110 - 905
10/22/2004	10:00	21.9	20.1			902	Breezy (10-15 mph)	1 RA 04 000A SW 111 - 902
								1 RA 04 000A SW 111Dup - 902
10/22/2004	10:14	21.5	18.1			912	Breezy (10-15 mph)	1 RA 04 000A SW 112 - 912
								1 RA 04 000A SW 113RINSE - 912

[1] Sampling time approximate - readings collected on regular 15 minute intervals.

[2] Hand-held turbidity used in difference if available.

Data presented are Draft and Preliminary. These data have not undergone QA procedures and should not be viewed as final.

TSS/Turbidity Correlation
Data presented are Draft and Preliminary



Note: Includes data collected 8/30/04 - 10/20/04

*Data are hand held turbidity readings when available, otherwise telemetric reading sampled closest in time

Attachment 5

GW Partners
Lower Fox River - OU-1
04G007
Effluent Results - Draft and Preliminary

Date	Sample ID	TSS (mg/L)	BOD (mg/L)	Daily Flow (million gallons)	Ammonia Nitrogen (mg/L)	Total PCBs (ug/L)
9/3/04	IRA04 DEWT EF1	21	-	-	<0.32	<0.26
9/7/04	IRA04 DEWT EF2	9.0	-	-	0.67	<0.24
9/9/04	IRA04 DEWT EF3	19	-	-	3.1	<0.24
9/10/04	IRA04 DEWT EF4	24	-	-	4.5	<0.32
9/11/04	IRA04 DEWT EF5	16	-	-	2.9	<0.25
9/13/04	IRA04 DEWT EF6	12	-	-	4.9	<0.26
9/15/04	IRA04 DEWT EF7	87	-	-	6.7	<0.25
9/16/04	IRA04 DEWT EF8	40	16	0.8	4.4	<0.25
9/17/04	IRA04 DEWT EF9	33	12	-	3.2	<0.25
9/17/04 Dup.	IRA04 DEWT EF9 DUP	31	-	-	3.1	-
9/20/04	IRA04 DEWT EF10	11	3.1	1.1	2.2	<0.26
9/20/04	IRA04 DEWT EF10 Dup	-	-	-	-	<0.25
9/21/04	IRA04 DEWT EF11	17	3.2	0.3	1.8	<0.25
9/21/04	IRA04 DEWT EF11 Dup	-	3.2	-	-	-
9/22/04	IRA04 DEWT EF12	17	6.6	0.4	1.5	<0.25
9/23/04	IRA04 DEWT EF13	20	3.4	1.0	1.5	<0.25
9/24/04	IRA04 DEWT EF14	18	3.1	0.4	1.4	<0.25
9/25/04	IRA04 DEWT EF15	19	<2.0	-	1.5	<0.25
9/27/04	IRA04 DEWT EF16	10	<2.0	0.6	1.7	<0.25
9/28/04	IRA04 DEWT EF17	11	4.2	0.7	1.5	<0.26
9/29/04	IRA04 DEWT EF18	13	4.4	0.6	1.4	<0.26
9/29/04	IRA04 DEWT EF18 Dup	10	4.3	-	1.4	<0.25
9/30/04	IRA04 DEWT EF19	11	5.4	0.5	1.4	<0.25
10/1/04	IRA04 DEWT EF20	12	5.9	0.8	<0.32	<0.25
10/2/04	IRA04 DEWT EF21	23	9.6	-	1.2	<0.24
10/4/04	-	-	-	0.6	-	-
10/5/04	IRA04 DEWT EF22	20	7.7	-	1.4	<0.25
10/7/04	IRA04 DEWT EF23	13	4.5	1.1	3.7	<0.24
10/8/04	IRA04 DEWT EF24	14	6.0	0.6	3.8	-
10/9/04	IRA04 DEWT EF25	4.4	<2.0	-	4.9	-
10/11/04	IRA04 DEWT EF26	3.3	<2.0	0.5	4.4	-
10/12/04	IRA04 DEWT EF27	3.6	<2.0	0.2	-	-
10/13/04	DEWT EF28	2.4	<2.0	0.5	5.1	-
10/14/04	DEWT EF29	9.3	5.2	0.3	4.5	-
10/14/04	DEWT EF29 Dup	-	-	-	4.5	-
10/15/04	DEWT EF30	10	8.0	-	3.9	-
10/18/04	-	-	-	0.7	-	-
10/19/04	DEWT EF31	10	7.6	0.6	8.8	-
10/19/04	DEWT EF31 Dup.	-	7.4	-	-	-
10/20/04	DEWT EF32	20	24	0.3	8.7	-
Performance Expectation		5[a], 10[b]	10	1.2 - 1.7 (mgd)		< 0.1 - 0.5

[a] Monthly average

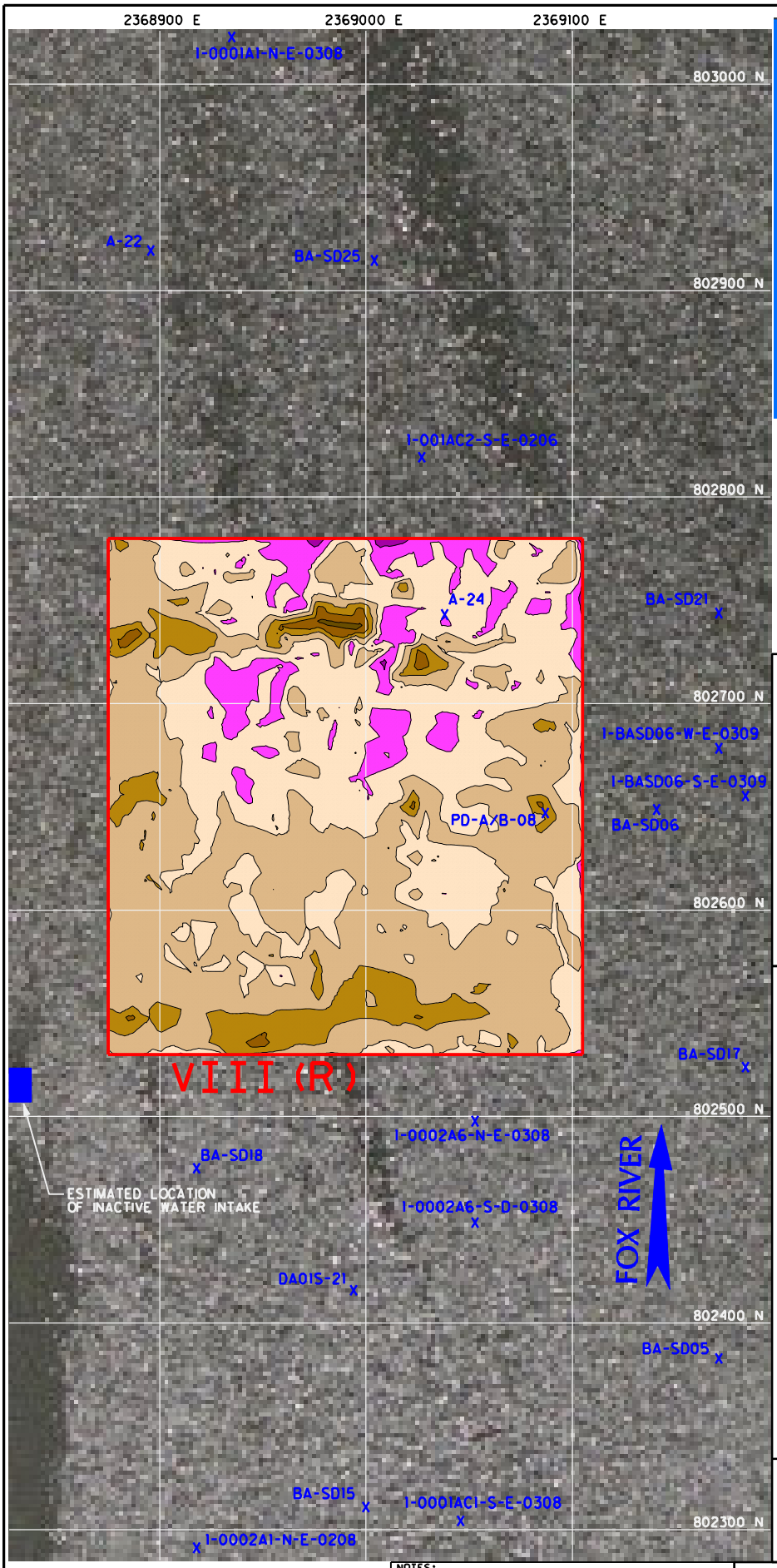
[b] Daily maximum

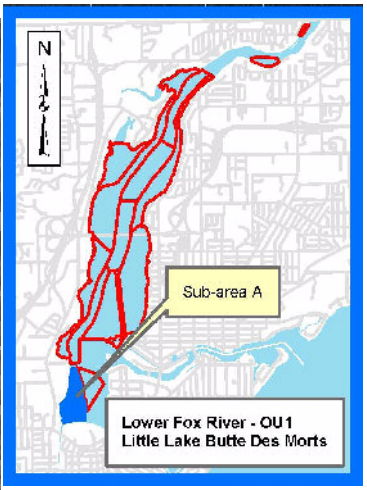
Data received by 10/25/04

Data presented are Draft and Preliminary.

These data have not undergone QA procedures and should not be viewed as final.

Attachment 6





N

SEDIMENT REMAINING

REGION VIII (R) INSIDE LIMITS
ABOVE 1 PPM RAL
24 C.Y.

SEDIMENT OVERCUT

REGION VIII (R) INSIDE LIMITS
BELOW 1 PPM RAL
1.130 C.Y.

SEDIMENT REMOVAL

REGION VIII (R) INSIDE LIMITS
3.440 C.Y.

REGION VIII (R) INSIDE & OUTSIDE LIMITS
3.700 C.Y.

LEGEND

SEDIMENT REMOVAL

- 0.5 - 0.9' REMAINING ABOVE 1 PPM RAL (0.2% OF AREA)
- 0.0 - 0.5' REMAINING ABOVE 1 PPM RAL (8% OF AREA)
- 0.0 - 0.5' CUT BELOW 1 PPM RAL (37% OF AREA)
- 0.5 - 1.0' CUT BELOW 1 PPM RAL (46% OF AREA)
- 1.0 - 1.5' CUT BELOW 1 PPM RAL (8% OF AREA)
- 1.5 - 2.0' CUT BELOW 1 PPM RAL (0.7% OF AREA)
- 2.0 - 2.2' CUT BELOW 1 PPM RAL (0.1% OF AREA)

BA-SD17 X CORING SAMPLE LOCATIONS

VIII (R) 2004 REMOVAL REGION

0 25' 50' 75' 100'
BAR SCALE

Foth & Van Dyke

DRAFT

NOTES:

1. SEDIMENT ISOPACH CREATED BY USING GMS DERIVED 1 PPM DREDGE CONTOURS VS BRENNAN'S OCTOBER 18, 2004 SURVEY.
2. SEDIMENT REMOVAL VOLUMES OBTAINED USING BRENNAN'S SEPTEMBER 10 AND OCTOBER 18, 2004 SURVEYS.
3. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
4. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
5. SUB-AREA A DELINEATION FROM 2003 PRE-DESIGN SAMPLING PLAN.

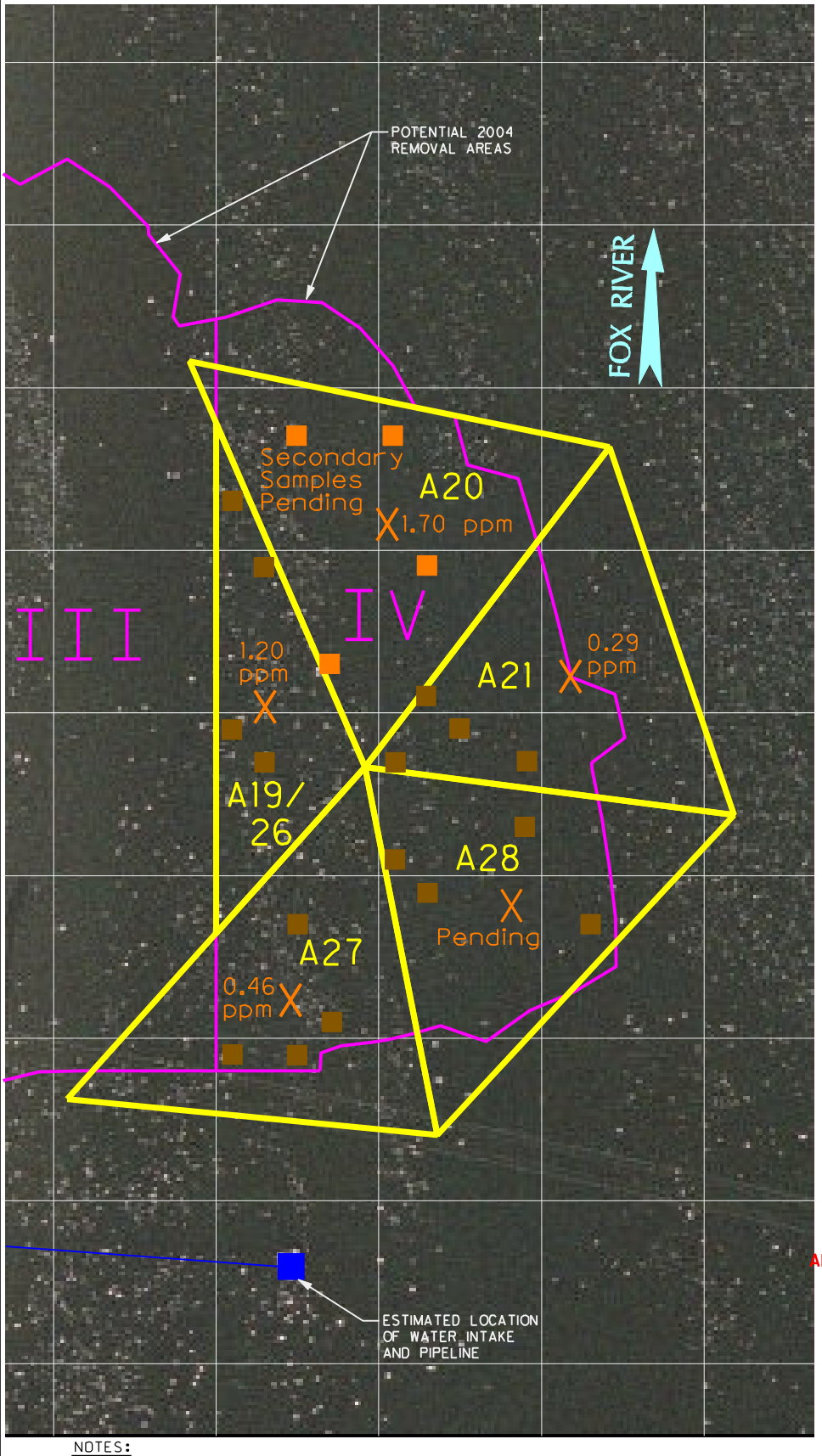
GW PARTNERS

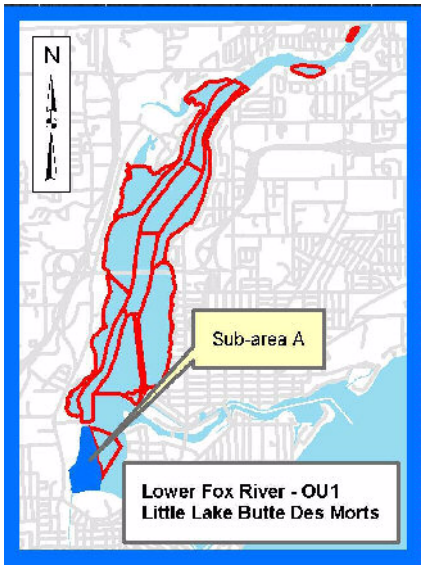
FIGURE 1
LOWER FOX RIVER
SUB-AREA A - REGION VIII (R)
POST DREDGE ISOPACH MAP

Prepared By: Foth & Van Dyke	Date: OCT. 20, 2004
Drawn By: JRB2	Checked By: DMR	Scope: 04G007

I:\02g005\NAD 83 - NAVD 88 DATUM\GMS\Deposit-A\2g05fig31.3d
10/26/2004 jrb2

Attachment 7





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LEGEND

- SUB-AREA A DELINEATION
- IV — 2004 REMOVAL AREA
- A21 — APPROXIMATE 230' SAMPLING GRID
- X 1.20 ppm — PRIMARY SAMPLE LOCATION WITH PPM LAB RESULTS
- SECONDARY SAMPLE LOCATIONS TO BE USED AS COMPOSITE SAMPLE
- SECONDARY SAMPLE LOCATIONS NOT NEEDED FOR COMPOSITE SAMPLE (A28 PENDING)
- Pending — LAB RESULTS NOT COMPLETED

ALL LAB RESULTS MUST STILL BE VALIDATED.

0 25' 50' 75' 100'
BAR SCALE

Foth & Van Dyke

NOTES:

1. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
2. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
3. SUB-AREA A DELINEATION FROM 2003 PRE-DESIGN SAMPLING PLAN.
4. REGION IV DREDGED IN FALL 2004, REGIONS I - III HAVE NOT BEEN DREDGED AS OF OCTOBER 2004.

GW PARTNERS

FIGURE 1

LOWER FOX RIVER - SUB-AREA A
REGION IV
POST DREDGE SEDIMENT SAMPLE RESULTS

Prepared By: Foth & Van Dyke	Date: OCTOBER, 2004
Drawn By: JRB2	Checked By: JBH1
Scope: 04G007	

I:\02g005\NAD 83 - NAVD 88 DATUM\GMS\Deposit-A\2g05fig3.3d
10/26/2004 jrb2

DRAFT

Foth & Van Dyke

Memorandum

November 2, 2004

TO: Ben Hung, WDNR
Greg Hill, WDNR
Gary Kincaid, WDNR
Jim Hahnenberg, EPA
Boldt Oversight Team

CC: Bill Hartman, GW Partners
Amie Obermeier, GW Partners
Sherman LaViolette, CH2MHill
Mike Jury, CH2MHill
Tara Konkle, Foth & Van Dyke
Steve Laszewski, Foth & Van Dyke

FR: Jim Hutchison, Foth & Van Dyke

RE: OU1 2004 Environmental Monitoring Data – October 22 through October 29, 2004

Attached are monitoring data for the one week period beginning October 22, 2004 and ending October 29, 2004 for the environmental monitoring activities pursuant to the 2004 RA Work Plan, May, 2004 and subsequent addendum. If you have any questions or comments please contact Jim Hutchison at (920) 497 2500 or at jhutchison@foth.com. In addition to the weekly data summary, project data will be provided in a database format following completion of the 2004 RA work.

Data presented are draft and preliminary. These data have not undergone QA procedures and should not be viewed as final.

Air Monitoring Data:

Summary: Air sampling at the four meter locations was initiated on August 7, 2004. Sampling consisted of a 72 hour sampling event per week. Continuous sampling began on August 30, 2004. PCBs have not been detected to date. No new results have been received since the last memorandum.

Surface Water Data:

Summary: River turbidity meters began operation on August 20, 2004 monitoring river turbidity (NTUs) every 15 minutes at three locations. The meters are located upstream

(meter 912), downstream (meter 902) and far downstream (meter 905) of dredging activities. Dredging was completed on 10/22 and 10/26 through 10/29/04. Generally the data show that the downstream turbidity has been within acceptable limits of the upstream turbidity. **Please note the turbidity data graphs indicate dredging and no dredging times.**

Attachment 1 - Graphs and Tabulation of Turbidity Data for Upstream, Downstream, Far Downstream and Upstream/Downstream Difference Graph

Field Surface Water Data

Summary: Field data includes hand held turbidity measurements and TSS sampling taken at the turbidity monitoring stations between August 30, 2004 and October 29, 2004. The correlation between TSS and turbidity to date shows a correlation coefficient of 0.88.

Attachment 2 -TSS and Field Turbidity Data and TSS/Turbidity Correlation

Water Treatment Data:

Summary: The effluent water is being analyzed for TSS, PCBs, Ammonia and BOD.

Attachment 3 - Effluent water results

Post-Dredge Bathymetric QA Summary

Summary: QA bathymetric data for Region VIII of Deposit A was included in the October 26, 2004 memorandum.

Sediment Sample Verification:

Summary: Post dredging sediment samples collection began on October 11, 2004 and finished on October 12, 2004 in Region IV of Deposit A. Laboratory test results are presented on Figure 1 in Attachment 4. Post dredging sediment sample collection in Region VIII of Deposit A was completed on October 25, 2004. Laboratory results have not yet been received.

Attachment: 4 – Updated Sub Area Region IV Post Dredge Sediment Sample Results

Sand Placement Verification:

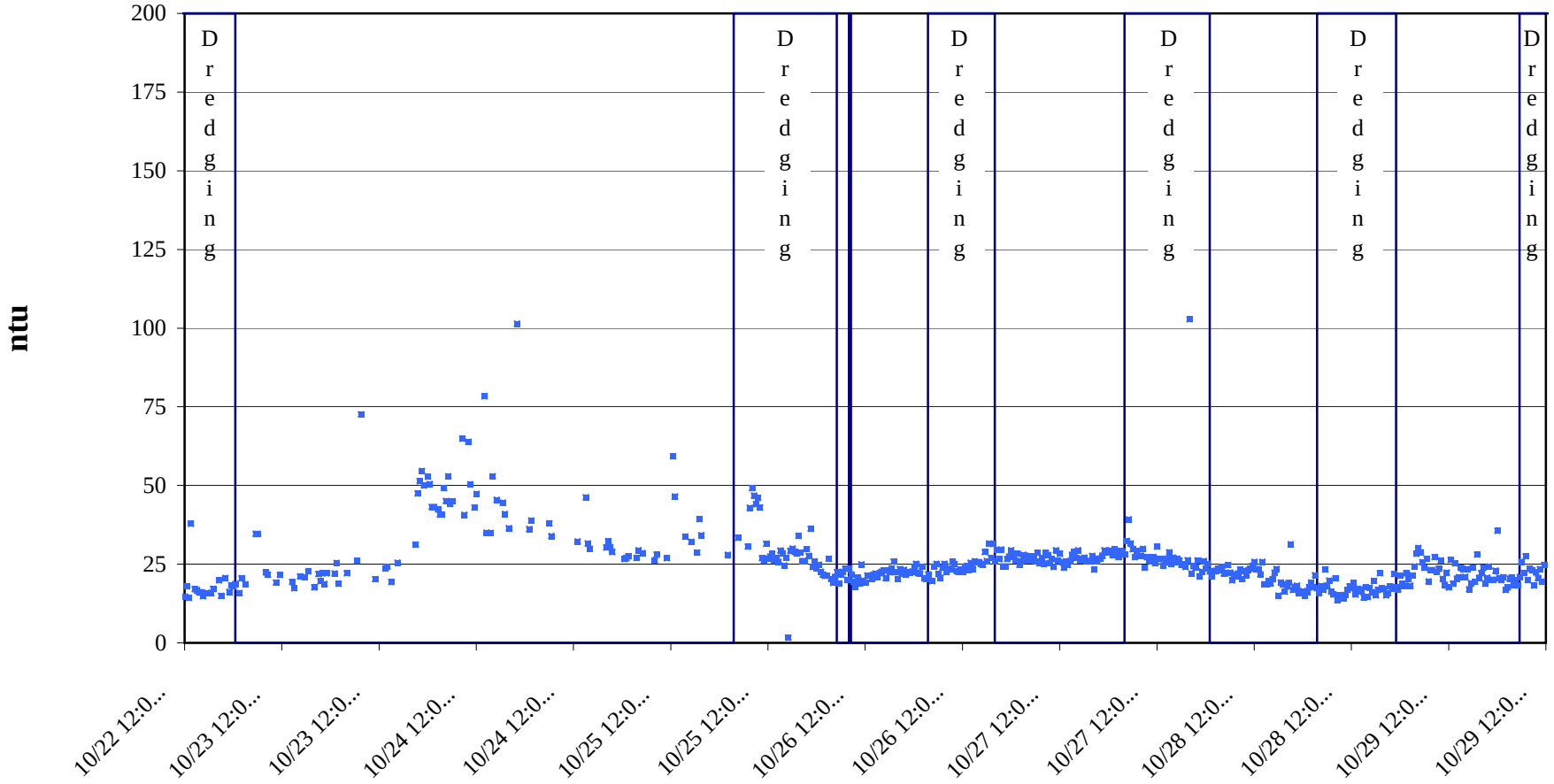
Summary: Sand placement has not been initiated to date

Attachment: None

Note: Transmitted when available, as this data will be obtained less frequently than other project environmental data.

Attachment 1

Upstream Turbidity - Meter 912



Upstream Turbidity - Meter 912

10/22/2004 12:01	14.7	10/23/2004 12:01	1068	10/24/2004 12:01	1067	10/25/2004 12:01	26.8	10/26/2004 12:01	22.5	10/27/2004 12:01	30.601	10/28/2004 12:01	17.4
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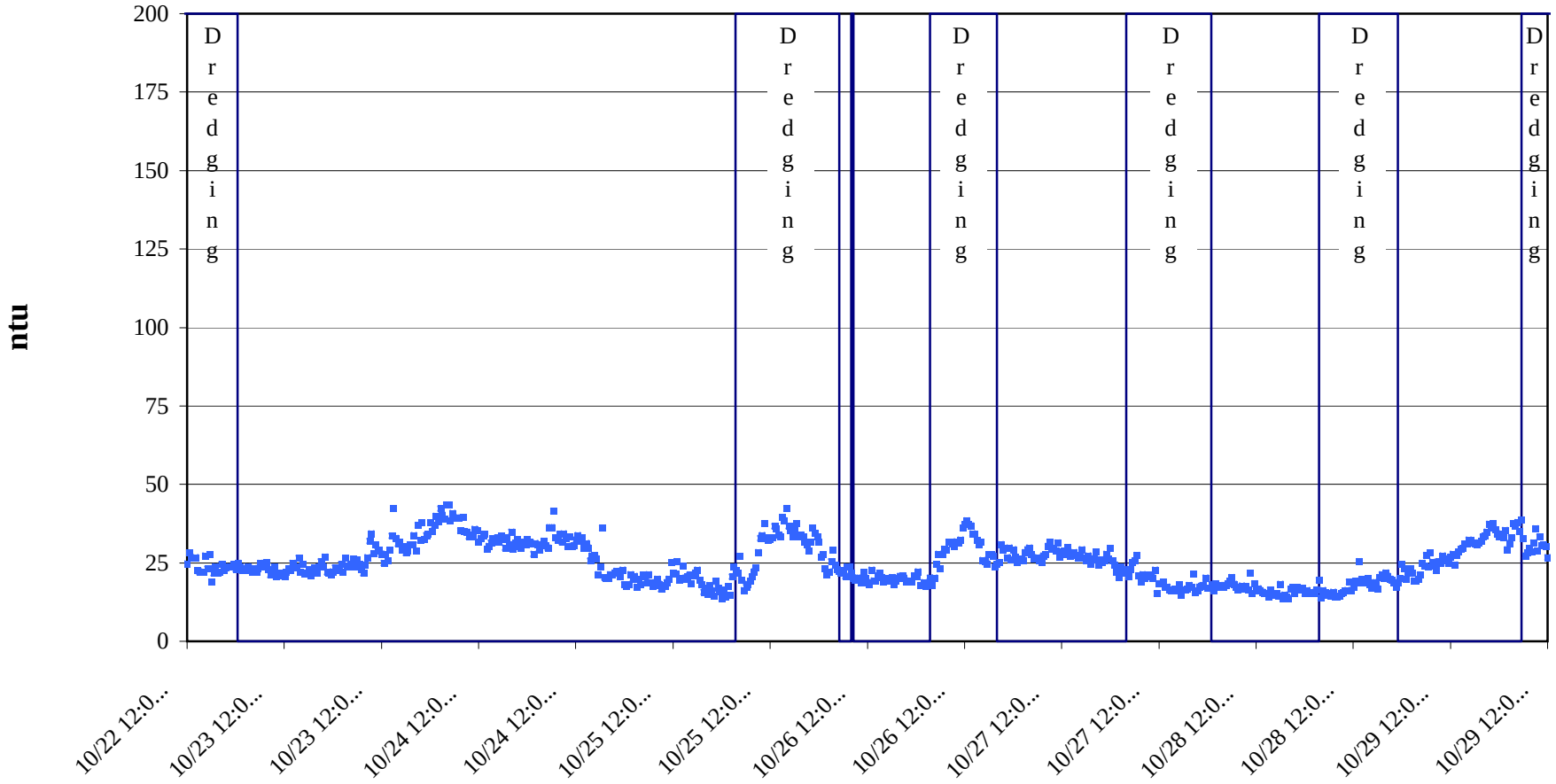
Downstream Turbidity - Meter 902



Downstream Turbidity - Meter 902

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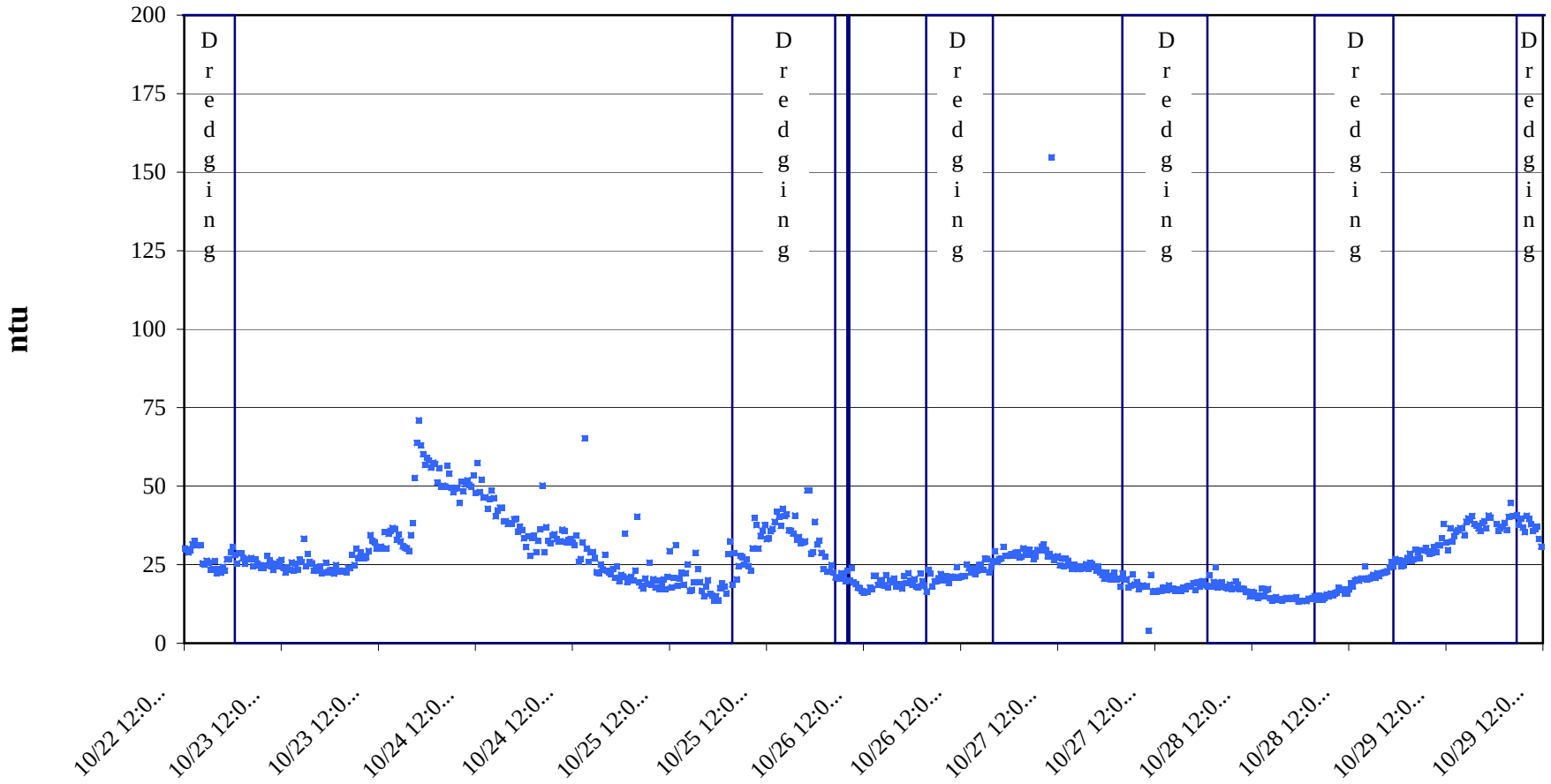
Far Downstream Turbidity - Meter 905



Far Downstream Turbidity - Meter 905

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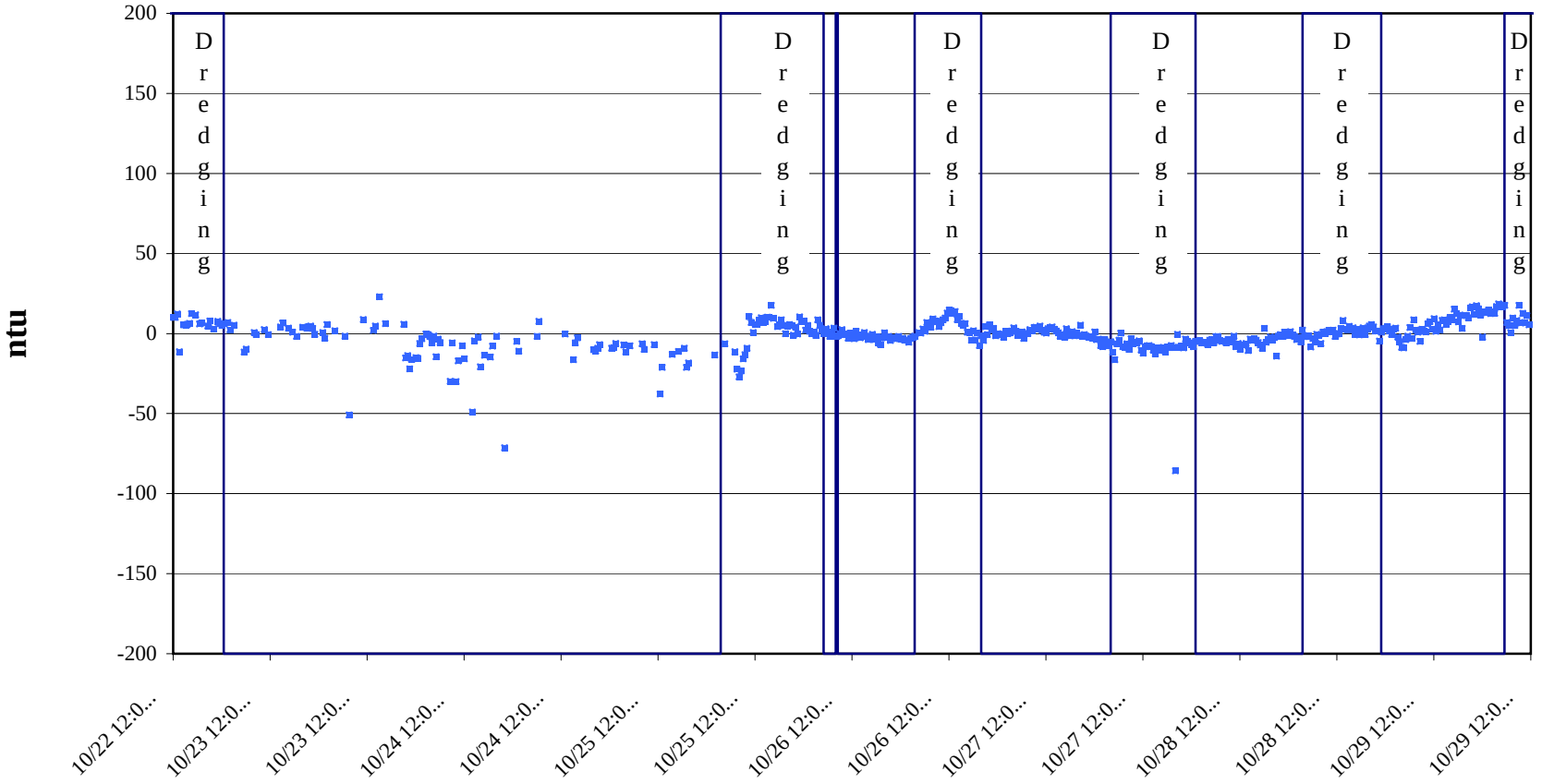
10/23/2004 5:16	22.701	10/24/2004 5:16	35.5	10/25/2004 5:16	15.101	10/26/2004 5:16	19.201	10/27/2004 5:16	22.601	10/28/2004 5:16	14.4	10/29/2004 5:16	40.701
10/23/2004 5:31	25.601	10/24/2004 5:31	37.201	10/25/2004 5:31	13.601	10/26/2004 5:31	22.3	10/27/2004 5:31	21.701	10/28/2004 5:31	14.7	10/29/2004 5:31	40
10/23/2004 5:46	22.601	10/24/2004 5:46	36.1	10/25/2004 5:46	15	10/26/2004 5:46	19.9	10/27/2004 5:46	20.5	10/28/2004 5:46	13.3	10/29/2004 5:46	804.5
10/23/2004 6:01	23.201	10/24/2004 6:01	33.401	10/25/2004 6:01	13.7	10/26/2004 6:01	18.601	10/27/2004 6:01	22.5	10/28/2004 6:01	13.5	10/29/2004 6:01	272.3
10/23/2004 6:16	23.4	10/24/2004 6:16	30.601	10/25/2004 6:16	17.5	10/26/2004 6:16	20.4	10/27/2004 6:16	21.5	10/28/2004 6:16	13.4	10/29/2004 6:16	38
10/23/2004 6:31	22.101	10/24/2004 6:31	34	10/25/2004 6:31	19.101	10/26/2004 6:31	18.101	10/27/2004 6:31	20.4	10/28/2004 6:31	13.5	10/29/2004 6:31	35.8
10/23/2004 6:46	24.9	10/24/2004 6:46	27.8	10/25/2004 6:46	18.101	10/26/2004 6:46	17.8	10/27/2004 6:46	20.8	10/28/2004 6:46	13.4	10/29/2004 6:46	36.5
10/23/2004 7:01	23	10/24/2004 7:01	33.6	10/25/2004 7:01	15.9	10/26/2004 7:01	22.101	10/27/2004 7:01	22.4	10/28/2004 7:01	14.101	10/29/2004 7:01	37.1
10/23/2004 7:16	22.9	10/24/2004 7:16	34.3	10/25/2004 7:16	28.3	10/26/2004 7:16	19.8	10/27/2004 7:16	20.4	10/28/2004 7:16	14.101	10/29/2004 7:16	38.3
10/23/2004 7:31	22.8	10/24/2004 7:31	29	10/25/2004 7:31	32.5	10/26/2004 7:31	18.4	10/27/2004 7:31	20.601	10/28/2004 7:31	14.4	10/29/2004 7:31	36.1
10/23/2004 7:46	23.101	10/24/2004 7:46	32.6	10/25/2004 7:46	18.601	10/26/2004 7:46	16.5	10/27/2004 7:46	18	10/28/2004 7:46	15	10/29/2004 7:46	40.201
10/23/2004 8:01	22.701	10/24/2004 8:01	36.3	10/25/2004 8:01	28.701	10/26/2004 8:01	23.4	10/27/2004 8:01	22.201	10/28/2004 8:01	13.9	10/29/2004 8:01	44.6
10/23/2004 8:16	24	10/24/2004 8:16	50.201	10/25/2004 8:16	20.3	10/26/2004 8:16	22.101	10/27/2004 8:16	20.201	10/28/2004 8:16	15.101	10/29/2004 8:16	40.5
10/23/2004 8:31	23.9	10/24/2004 8:31	29	10/25/2004 8:31	24.601	10/26/2004 8:31	18.101	10/27/2004 8:31	20.4	10/28/2004 8:31	14.9	10/29/2004 8:31	40.401
10/23/2004 8:46	28.201	10/24/2004 8:46	37	10/25/2004 8:46	27.8	10/26/2004 8:46	19.601	10/27/2004 8:46	17.701	10/28/2004 8:46	13.9	10/29/2004 8:46	40.8
10/23/2004 9:01	24.9	10/24/2004 9:01	32.6	10/25/2004 9:01	27.4	10/26/2004 9:01	19.8	10/27/2004 9:01	18.4	10/28/2004 9:01	14.4	10/29/2004 9:01	37.701
10/23/2004 9:16	30.101	10/24/2004 9:16	31.9	10/25/2004 9:16	25	10/26/2004 9:16	20.701	10/27/2004 9:16	21.9	10/28/2004 9:16	15.5	10/29/2004 9:16	39.8
10/23/2004 9:31	27.101	10/24/2004 9:31	34.3	10/25/2004 9:31	26.601	10/26/2004 9:31	22	10/27/2004 9:31	18.701	10/28/2004 9:31	14.8	10/29/2004 9:31	36.8
10/23/2004 9:46	29	10/24/2004 9:46	34.701	10/25/2004 9:46	24.601	10/26/2004 9:46	20	10/27/2004 9:46	19.5	10/28/2004 9:46	15.8	10/29/2004 9:46	35.401
10/23/2004 10:01	27.701	10/24/2004 10:01	33.1	10/25/2004 10:01	23.101	10/26/2004 10:01	20.9	10/27/2004 10:01	17.201	10/28/2004 10:01	15.3	10/29/2004 10:01	40.6
10/23/2004 10:16	27.101	10/24/2004 10:16	32.401	10/25/2004 10:16	30.201	10/26/2004 10:16	21.3	10/27/2004 10:16	17.9	10/28/2004 10:16	15.9	10/29/2004 10:16	39.6
10/23/2004 10:31	27.4	10/24/2004 10:31	32.5	10/25/2004 10:31	39.901	10/26/2004 10:31	19.201	10/27/2004 10:31	18.4	10/28/2004 10:31	16.201	10/29/2004 10:31	37.901
10/23/2004 10:46	29.4	10/24/2004 10:46	36.201	10/25/2004 10:46	37.6	10/26/2004 10:46	21.201	10/27/2004 10:46	18.201	10/28/2004 10:46	17.601	10/29/2004 10:46	35.701
10/23/2004 11:01	34.5	10/24/2004 11:01	35.701	10/25/2004 11:01	30.101	10/26/2004 11:01	21.101	10/27/2004 11:01	18.201	10/28/2004 11:01	16.8	10/29/2004 11:01	36.401
10/23/2004 11:16	32.6	10/24/2004 11:16	32.201	10/25/2004 11:16	34.201	10/26/2004 11:16	20.9	10/27/2004 11:16	4.001	10/28/2004 11:16	17.101	10/29/2004 11:16	37.201
10/23/2004 11:31	32.201	10/24/2004 11:31	32.8	10/25/2004 11:31	35.8	10/26/2004 11:31	24.3	10/27/2004 11:31	21.8	10/28/2004 11:31	15.9	10/29/2004 11:31	33.201
10/23/2004 11:46	30.101	10/24/2004 11:46	33.201	10/25/2004 11:46	37.6	10/26/2004 11:46	21	10/27/2004 11:46	16.5	10/28/2004 11:46	15.8	10/29/2004 11:46	30.8
												10/29/2004 12:01	32.6

Turbidity
Downstream/Upstream Difference
(Downstream Minus Upstream)



Attachment 2

GW Partners
Lower Fox River - OU-1
04G007
TSS and Field Turbidity - Draft and Preliminary

Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
8/30/2004	13:47	19.8	19	25	6	912	Calm (0-5 mph)	1 RA 04 DEWT SW 1 - 912
8/30/2004	13:54	19.1	24	22	-2	902	Calm (0-5 mph)	1 RA 04 DEWT SW 2 - 902
8/30/2004	14:01	20.1	18	23	5	905	Calm (0-5 mph)	1 RA 04 DEWT SW 3 - 905
8/31/2004	19:32	12.0	13.5	15	1.5	912	Calm (0-5 mph)	1 RA 04 DEWT SW 4 - 912
8/31/2004	19:40	18.2	23	25	2	902	Calm (0-5 mph)	1 RA 04 DEWT SW 5 - 902
				24				1 RA 04 DEWT SW 5Dup - 902
8/31/2004	19:47	12.8	13.5	17	3.5	905	Calm (0-5 mph)	1 RA 04 DEWT SW 6 - 905
				<1.0				1 RA 04 DEWT SW 7RINSE - 905
9/1/2004	12:56	24.2	23	28	5	912	Calm (0-5 mph)	1 RA 04 DEWT SW 8 - 912
9/1/2004	13:08	51.1	39	36	-3	902	Calm (0-5 mph)	1 RA 04 DEWT SW 9 - 902
9/1/2004	13:15	22.8	21.6	25	3.4	905	Calm (0-5 mph)	1 RA 04 DEWT SW 10 - 905
9/2/2004	12:16	22.4	23	26	3	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 11 - 912
9/2/2004	12:31	34.4	35	41	6	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 12 - 902
9/2/2004	12:44	33.3	30	31	1	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 13 - 905
9/3/2004	11:55	21.1	18	20	2	912	Calm (0-10 mph)	1 RA 04 DEWT SW 14 - 912
9/3/2004	12:05	39.7	30	28	-2	902	Calm (0-10 mph)	1 RA 04 DEWT SW 15 - 902
				28				1 RA 04 DEWT SW 15Dup - 902
9/3/2004	12:13	16.6	18	20	2	905	Calm (0-10 mph)	1 RA 04 DEWT SW 16 - 905
				<1.0				1 RA 04 DEWT SW 16RINSE - 905
9/7/2004	7:22	20	32.6		NA	902	Calm (0-10 mph)	NA
9/7/2004	7:26	20.7	33		NA	905	Calm (0-10 mph)	NA
9/7/2004	7:51	15.5	28.5		NA	912	Calm (0-10 mph)	NA
9/7/2004	11:52	18.7		24	5.3	912	Calm (0-10 mph)	1 RA 04 DEWT SW 18 - 912
9/7/2004	12:07	25		29	4	902	Calm (0-10 mph)	1 RA 04 DEWT SW 19 - 902
9/7/2004	12:15	22.7		23	0.3	905	Calm (0-10 mph)	1 RA 04 DEWT SW 20 - 905
9/8/2004	11:39	51.3		58	6.7	912	Windy (15-20 mph)	1 RA 04 DEWT SW 21 - 912
9/8/2004	11:50	36		42	6	902	Windy (15-20 mph)	1 RA 04 DEWT SW 22 - 902
9/8/2004	11:56	39.9		48	8.1	905	Windy (15-20 mph)	1 RA 04 DEWT SW 23 - 905
9/9/2004	11:11	31.8	33	25	-8	912	Calm (0-5 mph)	1 RA 04 DEWT SW 24 - 912
9/9/2004	11:20	24	26	25	-1	902	Calm (0-5 mph)	1 RA 04 DEWT SW 25 - 902
9/9/2004	11:35	23.2	26	24	-2	905	Calm (0-5 mph)	1 RA 04 DEWT SW 26 - 905
9/10/2004	9:36	23.5	26	21	-5	912	Windy (10-20 mph)	1 RA 04 DEWT SW 27 - 912
9/10/2004	9:48	1100	35	22	-13	902	Windy (10-20 mph)	1 RA 04 DEWT SW 28 - 902
				23				1 RA 04 DEWT SW 28Dup - 902
9/10/2004	10:00	657	30	24	-6	905	Windy (10-20 mph)	1 RA 04 DEWT SW 29 - 905
				<1.0				1 RA 04 DEWT SW 30RINSE - 905
9/11/2004	9:43	23	30	21	-9	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 31 - 912
9/11/2004	9:53	21.7	32	24	-8	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 32 - 902
9/11/2004	10:01	44.1	33	27	-6	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 33 - 905
9/14/2004	10:43	18.8	20.5	23	2.5	912	Windy (10-20 mph)	1 RA 04 000A SW 34 - 912
9/14/2004	10:52	20	18.6	22	3.4	902	Windy (10-20 mph)	1 RA 04 000A SW 35 - 902
9/14/2004	11:01	16	16.8	21	4.2	905	Windy (10-20 mph)	1 RA 04 000A SW 36 - 905
9/15/2004	11:16	36.9	35.9	16	-19.9	912	Windy (15-25 mph)	1 RA 04 000A SW 37 - 912
9/15/2004	11:31	23.9	23	26	3	902	Windy (15-25 mph)	1 RA 04 000A SW 38 - 902
9/15/2004	11:45	24.9	25.5	26	0.5	905	Windy (15-25 mph)	1 RA 04 000A SW 39 - 905
9/16/2004	9:30	36	36	44	8	912	Breezy (5-15 mph)	1 RA 04 000A SW 40 - 912
9/16/2004	9:55	26	26	28	2	902	Breezy (5-15 mph)	1 RA 04 000A SW 41 - 902
				27				1 RA 04 000A SW 41Dup - 902
9/16/2004	10:03	34.5	34.5	34	-0.5	905	Breezy (5-15 mph)	1 RA 04 000A SW 42 - 905
				<1.0				1 RA 04 000A SW 43RINSE - 905
9/17/2004	10:32	18.2	36	15	-21	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 44 - 912
9/17/2004	10:58	17.6	17	16	-1	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 45 - 902
9/17/2004	11:08	15.3	17	14	-3	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 46 - 905
9/20/2004	12:57	39.2	36	45	9	912	Breezy (5-15 mph)	1 RA 04 000A SW 47 - 912
9/20/2004	12:31	32.4	37	35	-2	902	Breezy (5-15 mph)	1 RA 04 000A SW 48 - 902
				35				1 RA 04 000A SW 48Dup - 902
9/20/2004	12:22	31.7	36	36	0	905	Breezy (5-15 mph)	1 RA 04 000A SW 49 - 905
				1.2				1 RA 04 000A SW 50RINSE - 905
9/21/2004	10:08	39.4	38	40	2	905	Breezy (5-15 mph)	1 RA 04 000A SW 51 - 905
9/21/2004	10:21	35.4	42	38	-4	902	Breezy (5-15 mph)	1 RA 04 000A SW 52 - 902
9/21/2004	10:35	41.7	36	52	16	912	Breezy (5-15 mph)	1 RA 04 000A SW 53 - 912
9/22/2004	10:13	21.8	24	22	-2	905	Calm (0-5 mph)	1 RA 04 000A SW 54 - 905
9/22/2004	10:23	21.3	23	24	1	902	Calm (0-5 mph)	1 RA 04 000A SW 55 - 902
9/22/2004	10:38	18.5	36	28	-8	912	Calm (0-5 mph)	1 RA 04 000A SW 56 - 912
9/23/2004	11:11	15.1	19	16	-3	905	Breezy (5-15 mph)	1 RA 04 000A SW 57 - 905
9/23/2004	11:23	31.7	20	19	-1	902	Breezy (5-15 mph)	1 RA 04 000A SW 58 - 902
9/23/2004	12:17	26.6	27	29	2	912	Breezy (5-15 mph)	1 RA 04 000A SW 59 - 912

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
9/24/2004	9:35	18.2	19.5	22	2.5	905	Calm (0-5 mph)	1 RA 04 000A SW 60 - 905
9/24/2004	9:44	34.8	27.8	30	2.2	902	Calm (0-5 mph)	1 RA 04 000A SW 61 - 902
				30				1 RA 04 000A SW 61Dup - 902
9/24/2004	10:02	39.1	47	72	25	912	Calm (0-5 mph)	1 RA 04 000A SW 62 - 912
				1.3				1 RA 04 000A SW 63RINSE - 912
9/27/2004	11:10	11.6	12.5	14	1.5	905	Calm (0-5 mph)	1 RA 04 000A SW 64 - 905
9/27/2004	11:21	53.1	16.5	16	-0.5	902	Calm (0-5 mph)	1 RA 04 000A SW 65 - 902
9/27/2004	11:36	14.3	20	22	2	912	Calm (0-5 mph)	1 RA 04 000A SW 66 - 912
9/27/2004	11:46	11.6			NA	902	Calm (0-5 mph)	NA
9/27/2004	13:01	17.2			NA	902	Calm (0-5 mph)	NA
9/28/2004	11:31	33.9	38	32	-6	905	Windy (15-20 mph)	1 RA 04 000A SW 67 - 905
9/28/2004	11:38	38.7	41	33	-8	902	Windy (15-20 mph)	1 RA 04 000A SW 68 - 902
				33				1 RA 04 000A SW 68Dup - 902
9/28/2004	11:48	33.4	34	44	10	912	Windy (15-20 mph)	1 RA 04 000A SW 69 - 912
				1.2				1 RA 04 000A SW 70RINSE - 912
9/29/2004	11:38	17.3	20.5	20	-0.5	905	Calm (0-5 mph)	1 RA 04 000A SW 71 - 905
9/29/2004	11:46	19.3	27.8	23	-4.8	902	Calm (0-5 mph)	1 RA 04 000A SW 72 - 902
9/29/2004	12:22	14.2	14.5	33	18.5	912	Calm (0-5 mph)	1 RA 04 000A SW 73 - 912
9/29/2004	12:31	14.3			NA	902	Calm (0-5 mph)	NA
9/30/2004	10:20	24.6		24	-0.6	905	Calm (0-5 mph)	1 RA 04 000A SW 74 - 905
9/30/2004	10:30	18.6		22	3.4	902	Calm (0-5 mph)	1 RA 04 000A SW 75 - 902
9/30/2004	10:50	11.3		19	7.7	912	Calm (0-5 mph)	1 RA 04 000A SW 76 - 912
10/1/2004	10:34	24.9	27	22	-5	905	Breezy (10-15 mph)	1 RA 04 000A SW 77 - 905
10/1/2004	10:45	31.8	38	35	-3	902	Breezy (10-15 mph)	1 RA 04 000A SW 78 - 902
				34				1 RA 04 000A SW 78Dup - 902
10/1/2004	11:03	34	34	34	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 79 - 912
				<1.0				1 RA 04 000A SW 80RINSE - 912
10/4/2004	10:21	31.2	21.5	27	5.5	905	Breezy (10-15 mph)	1 RA 04 000A SW 81 - 905
10/4/2004	10:27	27.5	22.2	28	5.8	902	Breezy (10-15 mph)	1 RA 04 000A SW 82 - 902
10/4/2004	10:58	32.7	34	34	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 83 - 912
10/6/2004	9:09	24.5	22	26	1.5	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 84 - 905
10/6/2004	9:24	25.5	22	24	-1.5	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 85 - 902
				22				1 RA 04 000A SW 85Dup - 902
10/6/2004	9:49	29	26	31	2	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 86 - 912
				<2.0				1 RA 04 000A SW 87RINSE - 912
10/7/2004	9:55	24.6	24	22	-2.6	905	Calm (0-7 mph)	1 RA 04 000A SW 88 - 905
10/7/2004	10:11	19.9	23	23	3.1	902	Calm (0-7 mph)	1 RA 04 000A SW 89 - 902
10/7/2004	10:34	72.9	70	90	17.1	912	Calm (0-7 mph)	1 RA 04 000A SW 90 - 912
10/8/2004	11:24	75.5	85	55	-20.5	905	Calm (0-8 mph)	1 RA 04 000A SW 91 - 905
10/8/2004	11:38	66.6	66	54	-12.6	902	Calm (0-8 mph)	1 RA 04 000A SW 92 - 902
10/8/2004	11:54	83.1	91	150	66.9	912	Calm (0-8 mph)	1 RA 04 000A SW 93 - 912
10/11/2004	10:36	45.9	46	29	-16.9	905	Calm (0-5 mph)	1 RA 04 000A SW 94 - 905
10/11/2004	10:58	40	43	32	-8	902	Calm (0-5 mph)	1 RA 04 000A SW 95 - 902
10/11/2004	11:18	72.1	90	85	12.9	912	Calm (0-5 mph)	1 RA 04 000A SW 96 - 912
10/12/2004	12:27	28.3	27	28	-0.3	905	Very Calm (0-3 mph)	1 RA 04 000A SW 97 - 905
10/12/2004	12:35	24.1	30	86	61.9	902	Very Calm (0-3 mph)	1 RA 04 000A SW 98 - 902
				62				1 RA 04 000A SW 98Dup - 902
10/12/2004	12:49	95.4	90	130	34.6	912	Very Calm (0-3 mph)	1 RA 04 000A SW 99 - 912
				<2.0				1 RA 04 000A SW 100RINSE - 912
10/13/2004	10:01	13.4	23	17	3.6	905	Very Calm (0-3 mph)	000A SW 101 - 905
10/13/2004	10:16	31.3	38	17	-14.3	902	Very Calm (0-3 mph)	000A SW 102 - 902
10/13/2004	10:31	62.4	81	55	-7.4	912	Very Calm (0-3 mph)	000A SW 103 - 912
10/14/2004	8:57	50.6	46	38	-12.6	905	Breezy (10-15 mph)	000A SW 104 - 905
10/14/2004	9:05	52.3	45	42	-10.3	902	Breezy (10-15 mph)	000A SW 105 - 902
10/14/2004	9:23	177.1	160	160	-17.1	912	Breezy (10-15 mph)	000A SW 106 - 912
10/18/2004	9:35	16.9	17	17	0.1	905	Mild Breeze (5-10 mph)	POG2 000A SW 107 - 905
10/18/2004	9:45	15.2	17.8	18	2.8	902	Mild Breeze (5-10 mph)	POG2 000A SW 108 - 902
10/18/2004	9:54	17.4	21.5	16	-1.4	912	Mild Breeze (5-10 mph)	POG2 000A SW 109 - 912
10/19/2004	9:49	25.1	21	24	-1.1	905	Mild Breeze (5-10 mph)	POG2 000A SW 110 - 905
10/19/2004	9:29	15.3	16.5	17	1.7	902	Mild Breeze (5-10 mph)	POG2 000A SW 111 - 902
				17				POG2 000A SW 111Dup - 902
10/19/2004	9:21	17.7	16	13	-4.7	912	Mild Breeze (5-10 mph)	POG2 000A SW 112 - 912
				<2.0				POG2 000A SW 113RINSE - 912
10/20/2004	9:35	13.4	13.2	14	0.6	905	Very Calm (0-3 mph)	POG2 000A SW 114 - 905
10/20/2004	9:46	15	14.5	15	0	902	Very Calm (0-3 mph)	POG2 000A SW 115 - 902
10/20/2004	9:55	17.3	17.3	17	-0.3	912	Very Calm (0-3 mph)	POG2 000A SW 116 - 912
10/21/2004	11:47	10.5	13	13	2.5	905	Calm (0-7 mph)	POG2 000A SW 117 - 905

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

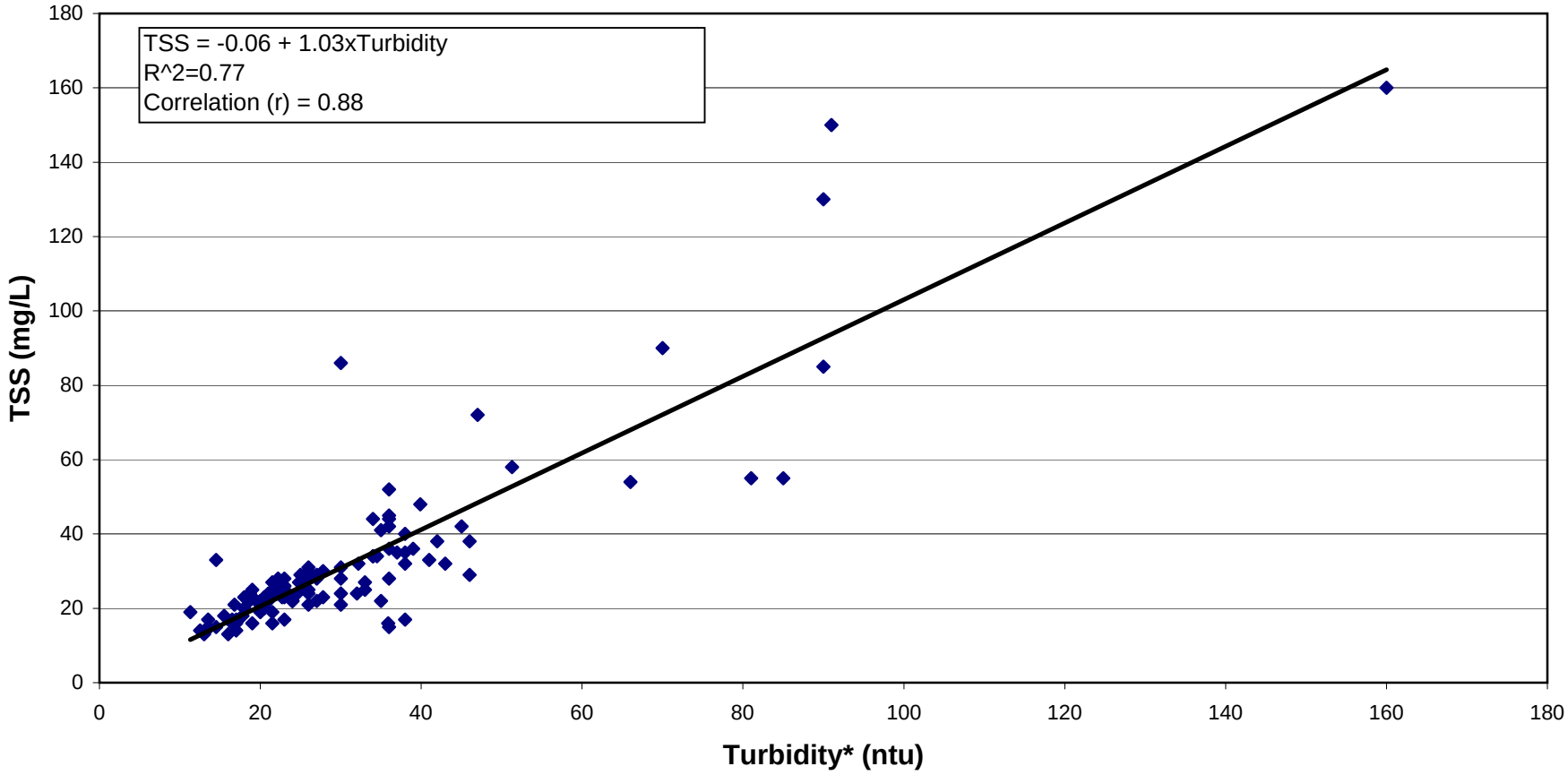
Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
10/21/2004	12:01	13.6	13.3	14	0.4	902	Calm (0-7 mph)	POG2 000A SW 118 - 902
10/21/2004	12:16	18.5	15.5	18	-0.5	912	Calm (0-7 mph)	POG2 000A SW 119 - 912
10/22/2004	9:54	25.2	24.8	27	1.8	905	Breezy (10-15 mph)	POG2 000A SW 120 - 905
10/22/2004	10:00	20.1	21.9	24	3.9	902	Breezy (10-15 mph)	POG2 000A SW 121 - 902
				24				POG2 000A SW 121Dup - 902
10/22/2004	10:14	18.1	21.5	19	0.9	912	Breezy (10-15 mph)	POG2 000A SW 122 - 912
				<2.0				POG2 000A SW 123RINSE - 912
10/25/2004	9:16	25	26	30	5	905	Mild Breeze (5-10 mph)	POG2 000A SW 124 - 905
10/25/2004	9:24	19.2	21	22	2.8	902	Mild Breeze (5-10 mph)	POG2 000A SW 125 - 902
10/25/2004	9:37	30.6	32.2	32	1.4	912	Mild Breeze (5-10 mph)	POG2 000A SW 126 - 912
10/26/2004	10:31	19.2	19.2			905	Windy (10-20 mph)	POG2 000A SW 127 - 905
10/26/2004	10:40	30.2	29.9			902	Windy (10-20 mph)	POG2 000A SW 128 - 902
								POG2 000A SW 128Dup - 902
10/26/2004	10:50	25.8	26.9			912	Windy (10-20 mph)	POG2 000A SW 129 - 912
								POG2 000A SW 130RINSE - 912
10/27/2004	8:40	17.7	18.8			905	Windy (10-20 mph)	POG2 000A SW 131 - 905
10/27/2004	8:52	25.2	24			902	Windy (10-20 mph)	POG2 000A SW 132 - 902
10/27/2004	9:03	29.8	28.7			912	Windy (10-20 mph)	POG2 000A SW 133 - 912
10/28/2004	9:01	14.4	14			905	Calm (0-10 mph)	POG2 000A SW 134 - 905
10/28/2004	9:07	15.1	14.4			902	Calm (0-10 mph)	POG2 000A SW 135 - 902
10/28/2004	9:21	19.8	17.5			912	Calm (0-10 mph)	POG2 000A SW 136 - 912
10/29/2004	10:56	36.4	34.8			905	Calm (0-5 mph)	POG2 000A SW 137 - 905
10/29/2004	11:03	33.2	31.2			902	Calm (0-5 mph)	POG2 000A SW 138 - 902
								POG2 000A SW 138Dup - 902
10/29/2004	11:16	23.6	24.4			912	Calm (0-5 mph)	POG2 000A SW 139 - 912
								POG2 000A SW 140RINSE - 912

[1] Sampling time approximate - readings collected on regular 15 minute intervals.

[2] Hand-held turbidity used in difference if available.

Data presented are Draft and Preliminary. These data have not undergone QA procedures and should not be viewed as final.

TSS/Turbidity Correlation
Data presented are Draft and Preliminary



Note: Includes data collected 8/30/04 - 10/25/04

*Data are hand held turbidity readings when available, otherwise telemetric reading sampled closest in time

Attachment 3

GW Partners
Lower Fox River - OU-1
04G007
Effluent Results - Draft and Preliminary

Date	Sample ID	TSS (mg/L)	BOD (mg/L)	Daily Flow (million gallons)[c]	Ammonia Nitrogen (mg/L)	Total PCBs (ug/L)
9/3/04	IRA04 DEWT EF1	21	-	-	<0.32	<0.26
9/7/04	IRA04 DEWT EF2	9.0	-	-	0.67	<0.24
9/9/04	IRA04 DEWT EF3	19	-	-	3.1	<0.24
9/10/04	IRA04 DEWT EF4	24	-	-	4.5	<0.32
9/11/04	IRA04 DEWT EF5	16	-	-	2.9	<0.25
9/13/04	IRA04 DEWT EF6	12	-	-	4.9	<0.26
9/15/04	IRA04 DEWT EF7	87	-	-	6.7	<0.25
9/16/04	IRA04 DEWT EF8	40	16	0.8	4.4	<0.25
9/17/04	IRA04 DEWT EF9	33	12	-	3.2	<0.25
9/17/04 Dup.	IRA04 DEWT EF9 DUP	31	-	-	3.1	-
9/20/04	IRA04 DEWT EF10	11	3.1	1.1	2.2	<0.26
9/20/04	IRA04 DEWT EF10 Dup	-	-	-	-	<0.25
9/21/04	IRA04 DEWT EF11	17	3.2	0.3	1.8	<0.25
9/21/04	IRA04 DEWT EF11 Dup	-	3.2	-	-	-
9/22/04	IRA04 DEWT EF12	17	6.6	0.4	1.5	<0.25
9/23/04	IRA04 DEWT EF13	20	3.4	1.0	1.5	<0.25
9/24/04	IRA04 DEWT EF14	18	3.1	0.4	1.4	<0.25
9/25/04	IRA04 DEWT EF15	19	<2.0	-	1.5	<0.25
9/27/04	IRA04 DEWT EF16	10	<2.0	0.6	1.7	<0.25
9/28/04	IRA04 DEWT EF17	11	4.2	0.7	1.5	<0.26
9/29/04	IRA04 DEWT EF18	13	4.4	0.6	1.4	<0.26
9/29/04	IRA04 DEWT EF18 Dup	10	4.3	-	1.4	<0.25
9/30/04	IRA04 DEWT EF19	11	5.4	0.5	1.4	<0.25
10/1/04	IRA04 DEWT EF20	12	5.9	0.8	<0.32	<0.25
10/2/04	IRA04 DEWT EF21	23	9.6	-	1.2	<0.24
10/4/04	-	-	-	0.6	-	-
10/5/04	IRA04 DEWT EF22	20	7.7	-	1.4	<0.25
10/7/04	IRA04 DEWT EF23	13	4.5	1.1	3.7	<0.24
10/8/04	IRA04 DEWT EF24	14	6.0	0.6	3.8	<0.25
10/9/04	IRA04 DEWT EF25	4.4	<2.0	-	4.9	<0.25
10/11/04	IRA04 DEWT EF26	3.3	<2.0	0.5	4.4	<0.25
10/12/04	IRA04 DEWT EF27	3.6	<2.0	0.2	4.7	<0.25
10/13/04	DEWT EF28	2.4	<2.0	0.5	5.1	<0.52
10/14/04	DEWT EF29	9.3	5.2	0.3	4.5	<0.25
10/14/04	DEWT EF29 Dup	-	-	-	4.5	-
10/15/04	DEWT EF30	10	8.0	-	3.9	-
10/18/04	-	-	-	0.7	-	-
10/19/04	DEWT EF31	10	7.6	0.6	8.8	<0.25
10/19/04	DEWT EF31 Dup.	10	7.4	-	-	<0.25
10/20/04	DEWT EF32	20	24	0.3	8.7	<0.25
10/21/04	DEWT EF33	12	14	0.6	12	<0.25
10/22/04	DEWT EF34	20	18	0.56	9.3	<0.25
10/23/04	DEWT EF35	6.5	6.9	-	23	-
10/24/04	DEWT EF36	<5.0	3.2	0.34	28	-
10/26/04	DEWT EF37	3.8	3.6	0.3	34	-
10/27/04	DEWT EF38	-	6.1	0.34	36	-
10/28/04	DEWT EF39	-	-	0.31	39	-
Performance Expectation		5[a], 10[b]	10	1.2 - 1.7 (mgd)		< 0.1 - 0.5

[a] Monthly average

[b] Daily maximum

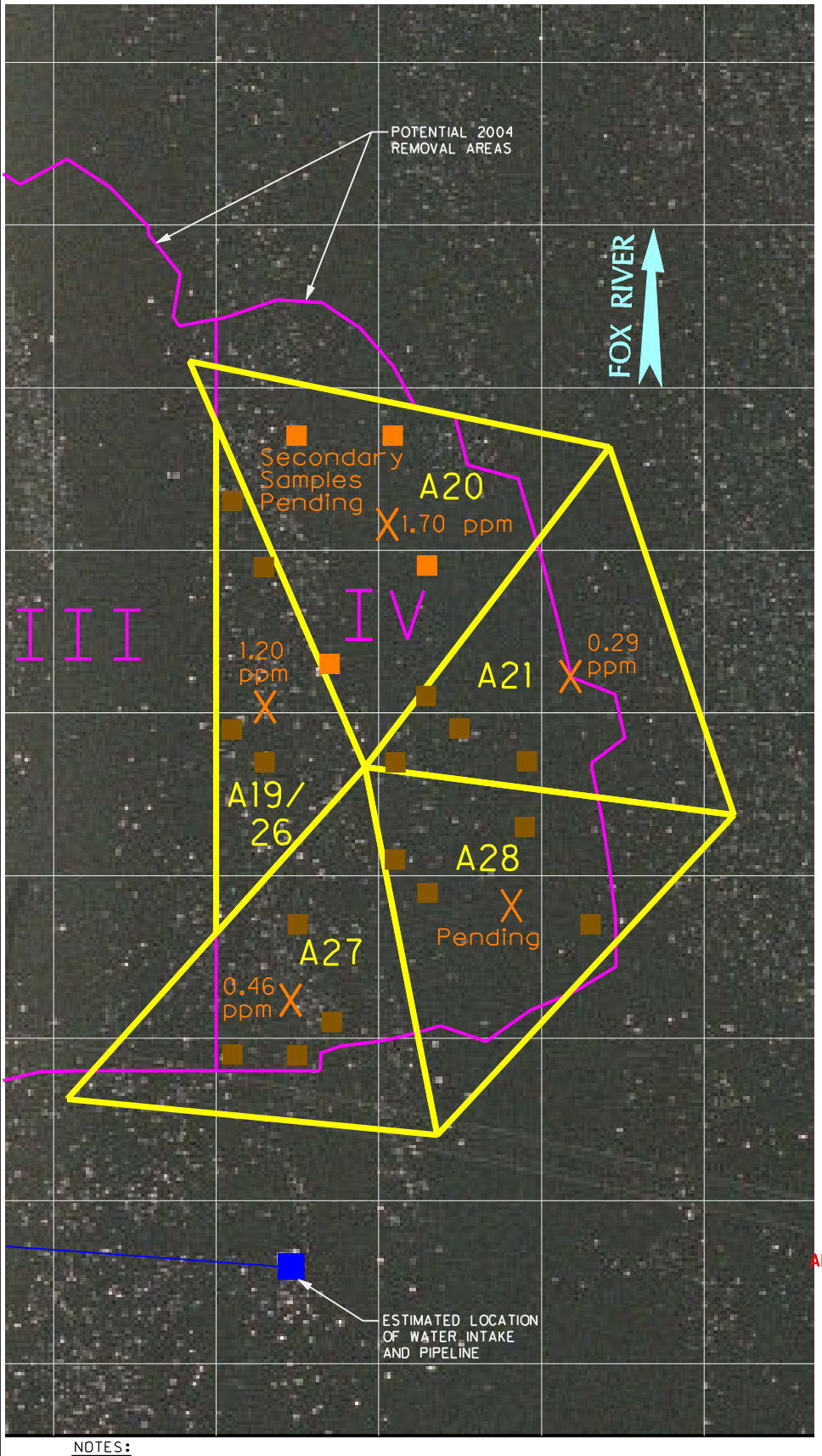
[c] Daily flow measured from midnight to midnight through 10/26/04 then measured at approx 10:00 AM till 10:00 AM thereafter.

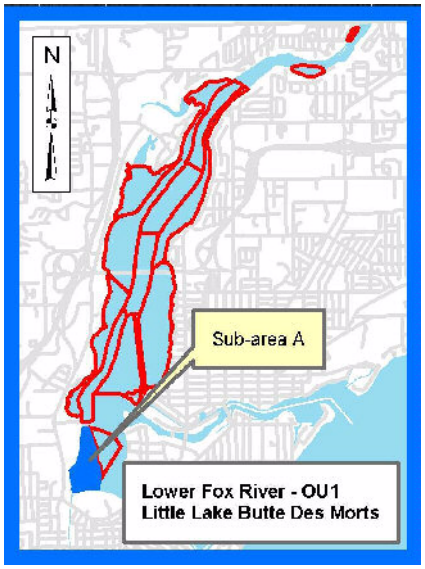
Data received by 11/1/04

Data presented are Draft and Preliminary.

These data have not undergone QA procedures and should not be viewed as final.

Attachment 4





N

LEGEND

- SUB-AREA A DELINEATION
- IV — 2004 REMOVAL AREA
- A21 — APPROXIMATE 230' SAMPLING GRID
- X 1.20 ppm — PRIMARY SAMPLE LOCATION WITH PPM LAB RESULTS
- SECONDARY SAMPLE LOCATIONS TO BE USED AS COMPOSITE SAMPLE
- SECONDARY SAMPLE LOCATIONS NOT NEEDED FOR COMPOSITE SAMPLE (A28 PENDING)
- Pending — LAB RESULTS NOT COMPLETED

ALL LAB RESULTS MUST STILL BE VALIDATED.

0 25' 50' 75' 100'
BAR SCALE

Foth & Van Dyke

NOTES:

1. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
2. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
3. SUB-AREA A DELINEATION FROM 2003 PRE-DESIGN SAMPLING PLAN.
4. REGION IV DREDGED IN FALL 2004, REGIONS I - III HAVE NOT BEEN DREDGED AS OF OCTOBER 2004.

GW PARTNERS

FIGURE 1

LOWER FOX RIVER - SUB-AREA A
REGION IV
POST DREDGE SEDIMENT SAMPLE RESULTS

Prepared By: Foth & Van Dyke	Date: OCTOBER, 2004
Drawn By: JRB2	Checked By: JBH1
Scope: 04G007	

I:\02g005\NAD 83 - NAVD 88 DATUM\GMS\Deposit-A\2g05fig3.3d
10/26/2004 jrb2

DRAFT

Foth & Van Dyke
Memorandum

November 9, 2004

TO: Ben Hung, WDNR
Greg Hill, WDNR
Gary Kincaid, WDNR
Jim Hahnenberg, EPA
Boldt Oversight Team

CC: Bill Hartman, GW Partners
Amie Obermeier, GW Partners
Sherman LaViolette, CH2MHill
Mike Jury, CH2MHill
Tara Konkle, Foth & Van Dyke
Steve Laszewski, Foth & Van Dyke

FR: Jim Hutchison, Foth & Van Dyke

RE: OU1 2004 Environmental Monitoring Data – October 29 through November 5, 2004

Attached are monitoring data for the one week period beginning October 29, 2004 and ending November 5, 2004 for the environmental monitoring activities pursuant to the 2004 RA Work Plan, May, 2004 and subsequent addendum. If you have any questions or comments please contact Jim Hutchison at (920) 497 2500 or at jhutchison@foth.com. In addition to the weekly data summary, project data will be provided in a database format following completion of the 2004 RA work.

Data presented are draft and preliminary. These data have not undergone QA procedures and should not be viewed as final.

Air Monitoring Data:

Summary: Air sampling at the four meter locations was initiated on August 7, 2004. Sampling consisted of a 72 hour sampling event per week. Continuous sampling began on August 30, 2004.

Attachment 1 – Summary of River Sampling Results 10/17/04 through 10/26/04
Attachment 2 – Monitor location sketch

Surface Water Data:

Summary: River turbidity meters began operation on August 20, 2004 monitoring river turbidity (NTUs) every 15 minutes at three locations. The meters are located upstream (meter 912), downstream (meter 902) and far downstream (meter 905) of dredging activities. Dredging was performed on 10/29 and 11/1 through 11/5/04. Generally the

data show that the downstream turbidity has been within acceptable limits of the upstream turbidity. **Please note the turbidity data graphs indicate dredging and no dredging times.**

Attachment 3 - Graphs and Tabulation of Turbidity Data for Upstream, Downstream, Far Downstream and Upstream/Downstream Difference Graph

Field Surface Water Data

Summary: Field data includes hand held turbidity measurements and TSS sampling taken at the turbidity monitoring stations between August 30, 2004 and November 8, 2004. The correlation between TSS and turbidity to date shows a correlation coefficient of 0.88. A new table showing additional rising turbidity results related to the dredge is shown in Attachment 5.

Attachment 4 -TSS and Field Turbidity Data and TSS/Turbidity Correlation
Attachment 5 –-Field Turbidity

Water Treatment Data:

Summary: The effluent water is being analyzed for TSS, PCBs, Ammonia and BOD. Low level mercury is also analyzed once per week.

Attachment 6 - Effluent Water Results

Post-Dredge Bathymetric QA Summary

Summary: QA bathymetric data for Region VIII of Deposit A was included in the October 26, 2004 memorandum.

Sediment Sample Verification:

Summary: Post dredging sediment samples collection began on October 11, 2004 and finished on October 12, 2004 in Region IV of Deposit A. Post dredging sediment sample collection in Region VIII of Deposit A was completed on October 25, 2004. The sediment PCB results are shown in Attachment 7. The results for region 8 (in Sub Area A) are shown in Attachment 8.

Attachment 7 - Sediment Results
Attachment: 8 - Sub Area Region IV Post Dredge Sediment Sample Results

Sand Placement Verification:

Summary: Sand placement has not been initiated to date

Attachment: None
Note: Transmitted when available, as this data will be obtained less frequently than other project environmental data.

Attachment 1

GW Partners, LLC

Lower Fox River Operable Unit 1

Summary of Air Sampling Results Calculated through November 9, 2004

All Results Reported in Total PCBs[1]

Dates	Sampling Round	Location ID	Sample ID	Laboratory Method[2]	Laboratory Reporting Limit (Total µg of PCBs)	Laboratory Results (Total µg of PCBs)[3]	Total Air Volume Sampled (Total m^3)		Calculated PCB Conc'n ($\mu g/m^3$)[4]
10-17-04 to 10-20-04	21	GWP-1	PCB-01-21	EPA TO-4A	0.5	ND	1072.82	≤	0.00047
10-17-04 to 10-20-04	21	GWP-2	PCB-02-21	EPA TO-4A	0.5	ND	1085.47	≤	0.00046
10-17-04 to 10-20-04	21	GWP-3	PCB-03-21	EPA TO-4A	0.5	ND	1057.42	≤	0.00047
10-17-04 to 10-20-04	21	GWP-4	PCB-04-21	EPA TO-4A	0.5	ND	1066.07	≤	0.00047
10-20-04 to 10-23-04	22	GWP-1	PCB-01-22	EPA TO-4A	0.5	ND	1145.3	≤	0.00044
10-20-04 to 10-23-04	22	GWP-2	PCB-02-22	EPA TO-4A	0.5	ND	1160.41	≤	0.00043
10-20-04 to 10-23-04	22	GWP-3	PCB-03-22	EPA TO-4A	0.5	ND	1176.32	≤	0.00043
10-20-04 to 10-23-04	22	GWP-4	PCB-04-22	EPA TO-4A	0.5	ND	1186.77	≤	0.00042
10-20-04 to 10-23-04	22	N/A	Field Blank 9	EPA TO-4A	0.5	ND	N/A	≤	N/A
10-23-04 to 10-26-04	23	GWP-1	PCB-01-23	EPA TO-4A	0.5	ND	1073.53	≤	0.00047
10-23-04 to 10-26-04	23	GWP-2	PCB-02-23	EPA TO-4A	0.5	ND	1078.09	≤	0.00046
10-23-04 to 10-26-04	23	GWP-3	PCB-03-23	EPA TO-4A	0.5	ND	1021.49	≤	0.00049
10-23-04 to 10-26-04	23	GWP-4	PCB-04-23	EPA TO-4A	0.5	ND	1050.77	≤	0.00048

Notes:

1. The laboratory reports the results in terms of significant Aroclors. Included are Aroclors 1016, 1221, 1232, 1242, 1248, 1254 and 1260. This table reports total PCB Aroclors and calculates a total PCB ambient air concentration.

2. EPA Compendium Method TO-4A is for determination of pesticides and polychlorinated biphenyls in ambient air using high volume polyurethane foam (PUF) sampling followed by gas chromoatographic/multi-detector detection (GC/MD).

3. ND = "None Detected". Given the laboratory reporting limit is 0.5 ug/sample, the concentration is calculated based on this value and reported as less than this concentration.

4. As a frame of reference, the airborne concentrations observed here could be compared to the airborne concentrations observed during the previous 56/57 Demonstration Project in 1999. During that study, concentrations collected within the property boundaries of the remediation area ranged from 0.0013 to 0.0216 ug/m^3 during dredging. Baseline concentrations, obtained prior to this same dredging project ranged from 0.0003 to 0.0016 ug/m^3.

Attachment 2

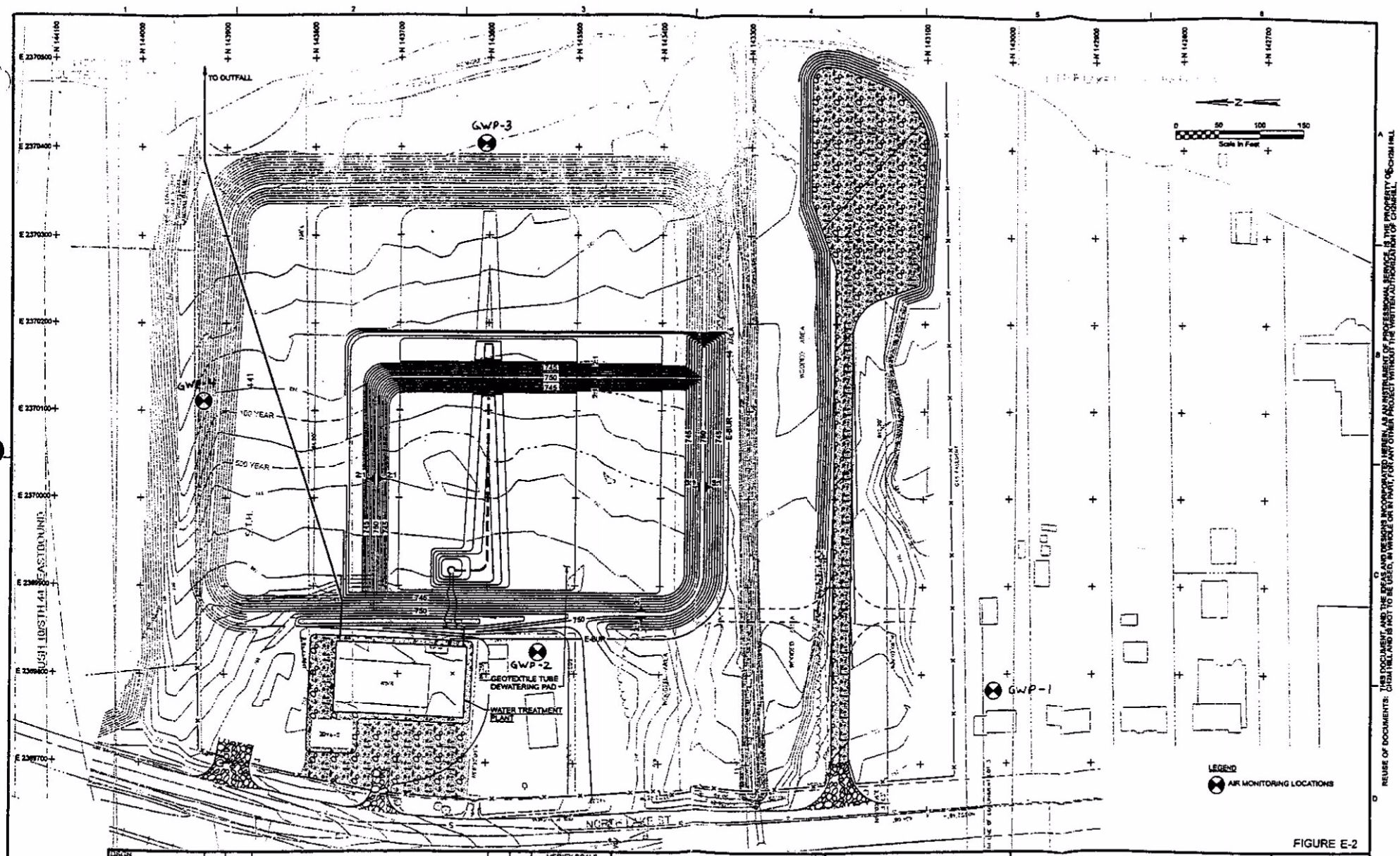


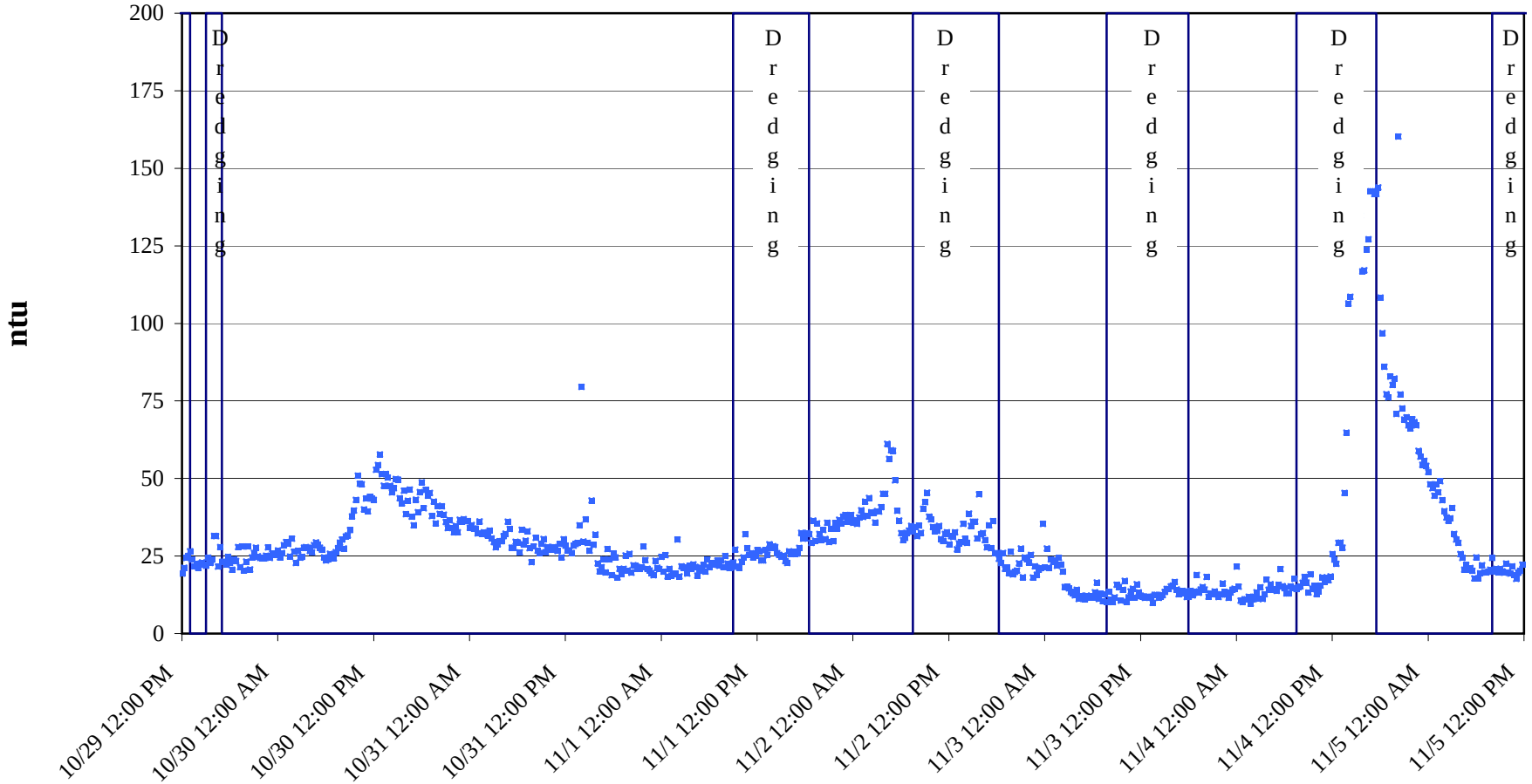
FIGURE E-2

DESIGN	C.M.LIETHEN				VERIFY SCALE	CH2MHILL	LOWER FOX RIVER (OU1) 2004 REMEDIAL ACTION TOWN OF MENASHA, WI G.W. PARTNERS, LLC	AIR MONITORING LOCATIONS	SHEET
DR	I.M.ZAEFKE				BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.				DWG C-1
CHK	D.J.PLOMB								DATE MAY 2004
APVD	S.D.LAVOLETTE	NO	DATE	REVISION	BY APVD				PROJ 315814.RA.01

FILENAME: tr5nc1416_183838.dgn PLOT DATE: 14-MAY-2004 PLOT TIME: 10:40:11

Attachment 3

Upstream Turbidity - Meter 912



Upstream Turbidity - Meter 912

10/29/2004 12:01	19.3	10/30/2004 12:01	43.1	10/31/2004 12:01	28.3	11/1/2004 12:01	26.9	11/2/2004 12:01	28.8	11/3/2004 12:01	12.2	11/4/2004 12:01	25.601
10/29/2004 12:16	21.201	10/30/2004 12:16	52.8	10/31/2004 12:16	26.8	11/1/2004 12:16	26.5	11/2/2004 12:16	31.4	11/3/2004 12:16	12	11/4/2004 12:16	23.8
10/29/2004 12:31	24.4	10/30/2004 12:31	54.3	10/31/2004 12:31	26.701	11/1/2004 12:31	23.601	11/2/2004 12:31	31.101	11/3/2004 12:31	11.5	11/4/2004 12:31	22.5
10/29/2004 12:46	25	10/30/2004 12:46	57.8	10/31/2004 12:46	26	11/1/2004 12:46	23.601	11/2/2004 12:46	32.701	11/3/2004 12:46	11.9	11/4/2004 12:46	29.201
10/29/2004 13:01	26.5	10/30/2004 13:01	51.401	10/31/2004 13:01	28.3	11/1/2004 13:01	26.9	11/2/2004 13:01	27.201	11/3/2004 13:01	12	11/4/2004 13:01	29.3
10/29/2004 13:16	23.8	10/30/2004 13:16	47.701	10/31/2004 13:16	28.9	11/1/2004 13:16	25.5	11/2/2004 13:16	29.101	11/3/2004 13:16	11.601	11/4/2004 13:16	27.701
10/29/2004 13:31	21.701	10/30/2004 13:31	51.5	10/31/2004 13:31	29.201	11/1/2004 13:31	28.8	11/2/2004 13:31	29.5	11/3/2004 13:31	9.9	11/4/2004 13:31	45.3
10/29/2004 13:46	22.601	10/30/2004 13:46	50.3	10/31/2004 13:46	34.901	11/1/2004 13:46	27.601	11/2/2004 13:46	35.401	11/3/2004 13:46	12.5	11/4/2004 13:46	64.801
10/29/2004 14:01	21.201	10/30/2004 14:01	47.701	10/31/2004 14:01	79.501	11/1/2004 14:01	28.201	11/2/2004 14:01	30.601	11/3/2004 14:01	12.5	11/4/2004 14:01	106.401
10/29/2004 14:16	22.4	10/30/2004 14:16	45.5	10/31/2004 14:16	29.701	11/1/2004 14:16	27.9	11/2/2004 14:16	29.201	11/3/2004 14:16	11.5	11/4/2004 14:16	108.601
10/29/2004 14:31	22.9	10/30/2004 14:31	46.901	10/31/2004 14:31	36.8	11/1/2004 14:31	25.9	11/2/2004 14:31	38.701	11/3/2004 14:31	11.9	11/4/2004 14:31	122.901
10/29/2004 14:46	22.3	10/30/2004 14:46	49.8	10/31/2004 14:46	29.201	11/1/2004 14:46	25.4	11/2/2004 14:46	34.701	11/3/2004 14:46	12.4	11/4/2004 14:46	123.901
10/29/2004 15:01	21.9	10/30/2004 15:01	49.701	10/31/2004 15:01	26.701	11/1/2004 15:01	24.701	11/2/2004 15:01	36.1	11/3/2004 15:01	13.4	11/4/2004 15:01	124.301
10/29/2004 15:16	24.5	10/30/2004 15:16	43.6	10/31/2004 15:16	42.901	11/1/2004 15:16	25.201	11/2/2004 15:16	36.1	11/3/2004 15:16	14.4	11/4/2004 15:16	125.301
10/29/2004 15:31	22.8	10/30/2004 15:31	42	10/31/2004 15:31	28.601	11/1/2004 15:31	23.4	11/2/2004 15:31	30.701	11/3/2004 15:31	14.4	11/4/2004 15:31	134.701
10/29/2004 15:46	23.8	10/30/2004 15:46	46.1	10/31/2004 15:46	31.9	11/1/2004 15:46	22.8	11/2/2004 15:46	44.901	11/3/2004 15:46	15.2	11/4/2004 15:46	116.801
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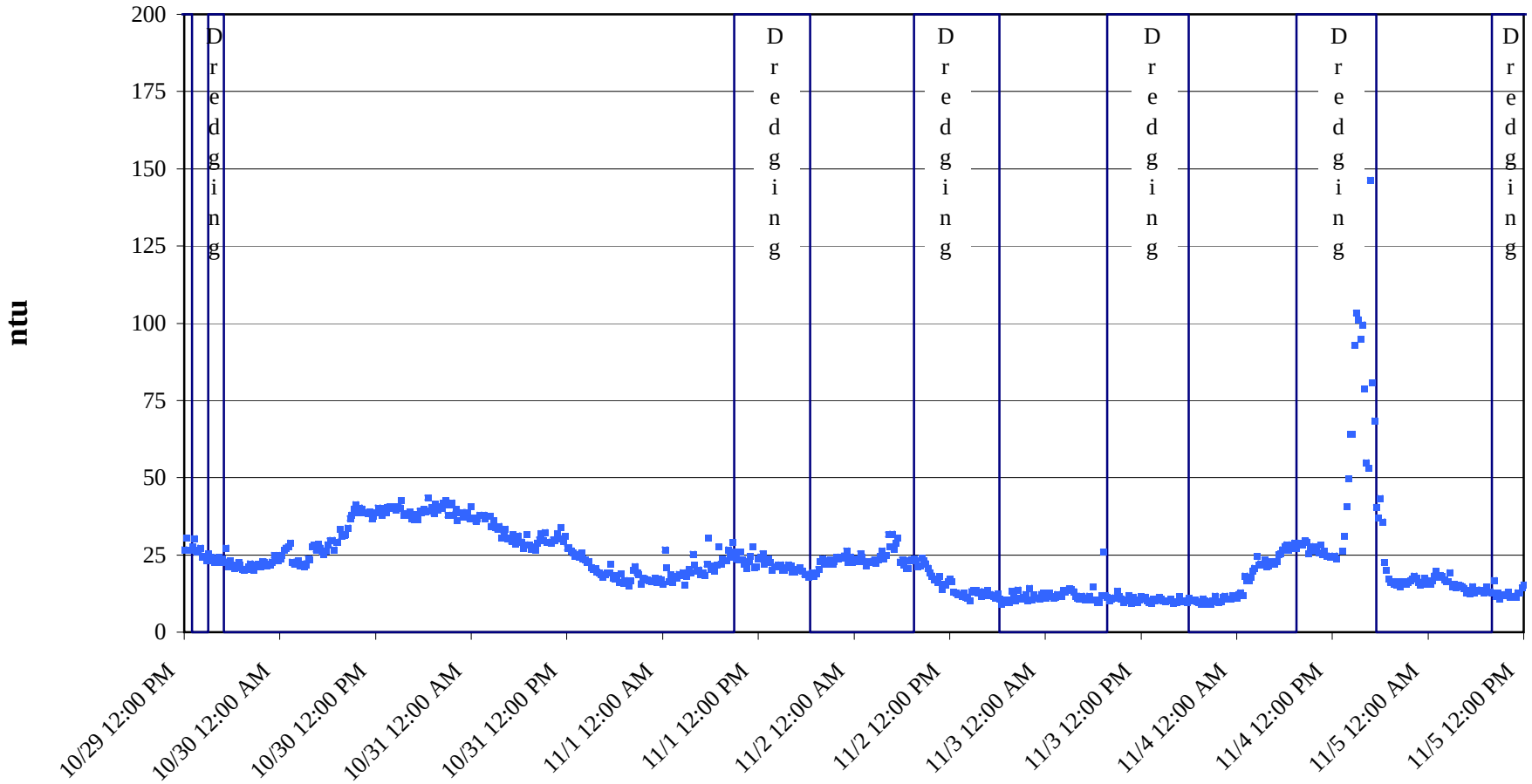
Downstream Turbidity - Meter 902



Downstream Turbidity - Meter 902

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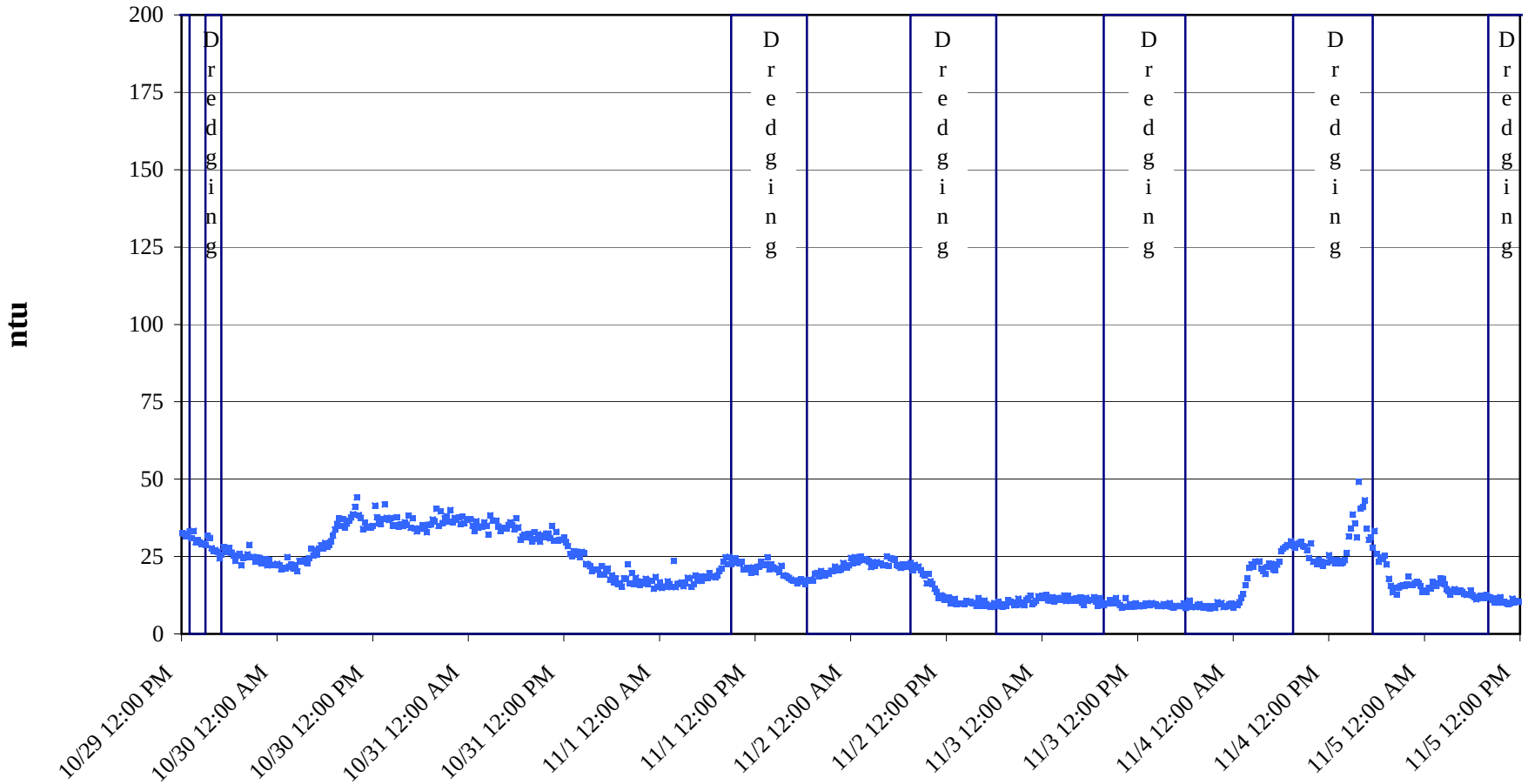
Far Downstream Turbidity - Meter 905



Far Downstream Turbidity - Meter 905

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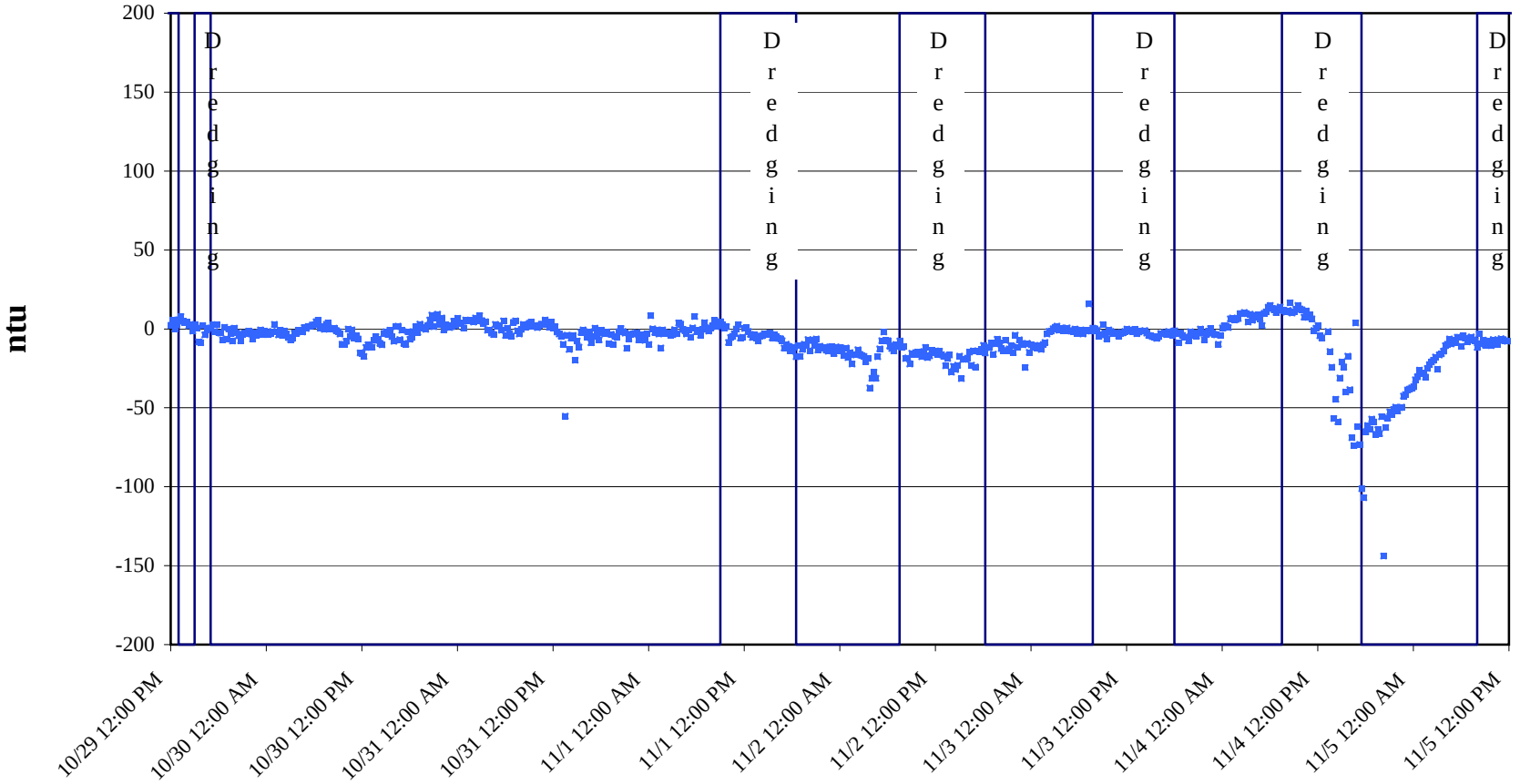
10/30/2004 8:31	34.5	10/31/2004 8:31	30.601	11/1/2004 8:31	22.701	11/2/2004 8:31	21.8	11/3/2004 8:31	10.9	11/4/2004 8:31	29.8	11/5/2004 8:31	11.101
10/30/2004 8:46	35.6	10/31/2004 8:46	32.201	11/1/2004 8:46	24.9	11/2/2004 8:46	20.601	11/3/2004 8:46	10	11/4/2004 8:46	28.3	11/5/2004 8:46	10.3
10/30/2004 9:01	36.6	10/31/2004 9:01	29.8	11/1/2004 9:01	22.601	11/2/2004 9:01	19.3	11/3/2004 9:01	10.7	11/4/2004 9:01	28.201	11/5/2004 9:01	11.5
10/30/2004 9:16	37.6	10/31/2004 9:16	31.8	11/1/2004 9:16	23.4	11/2/2004 9:16	18.9	11/3/2004 9:16	11.601	11/4/2004 9:16	27.101	11/5/2004 9:16	10.101
10/30/2004 9:31	38.701	10/31/2004 9:31	31.201	11/1/2004 9:31	24.4	11/2/2004 9:31	16.4	11/3/2004 9:31	10	11/4/2004 9:31	24.601	11/5/2004 9:31	11.9
10/30/2004 9:46	41	10/31/2004 9:46	32.401	11/1/2004 9:46	23.201	11/2/2004 9:46	19.3	11/3/2004 9:46	9.3	11/4/2004 9:46	29.201	11/5/2004 9:46	10.3
10/30/2004 10:01	44.1	10/31/2004 10:01	32.5	11/1/2004 10:01	22.8	11/2/2004 10:01	17	11/3/2004 10:01	8.5	11/4/2004 10:01	23.3	11/5/2004 10:01	10.4
10/30/2004 10:16	38.401	10/31/2004 10:16	30.9	11/1/2004 10:16	23.3	11/2/2004 10:16	16.101	11/3/2004 10:16	8.7	11/4/2004 10:16	23.4	11/5/2004 10:16	10
10/30/2004 10:31	37.5	10/31/2004 10:31	34.901	11/1/2004 10:31	20.9	11/2/2004 10:31	14.601	11/3/2004 10:31	11.601	11/4/2004 10:31	22.601	11/5/2004 10:31	9.7
10/30/2004 10:46	33.901	10/31/2004 10:46	30.101	11/1/2004 10:46	20.8	11/2/2004 10:46	13.601	11/3/2004 10:46	8.8	11/4/2004 10:46	24	11/5/2004 10:46	10
10/30/2004 11:01	36	10/31/2004 11:01	33	11/1/2004 11:01	21.3	11/2/2004 11:01	11.7	11/3/2004 11:01	9.601	11/4/2004 11:01	23.3	11/5/2004 11:01	11.4
10/30/2004 11:16	34.6	10/31/2004 11:16	30.201	11/1/2004 11:16	21.201	11/2/2004 11:16	12.5	11/3/2004 11:16	8.8	11/4/2004 11:16	22	11/5/2004 11:16	10.2
10/30/2004 11:31	34.5	10/31/2004 11:31	30.4	11/1/2004 11:31	19.8	11/2/2004 11:31	12.2	11/3/2004 11:31	8.9	11/4/2004 11:31	23.101	11/5/2004 11:31	10.601
10/30/2004 11:46	34.5	10/31/2004 11:46	30.5	11/1/2004 11:46	21.5	11/2/2004 11:46	11.101	11/3/2004 11:46	9.9	11/4/2004 11:46	23.101	11/5/2004 11:46	10.4
												11/5/2004 12:01	11.9

Turbidity
Downstream/Upstream Difference
(Downstream Minus Upstream)



This data is presented in raw unchecked form and as such Foth & Van Dyke provides no warranty, expressed or implied, as to the accuracy, reliablility or completeness of furnished data. Any use of this data is at the sole risk of the user.

Attachment 4

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
8/30/2004	13:47	19.8	19	25	6	912	Calm (0-5 mph)	1 RA 04 DEWT SW 1 - 912
8/30/2004	13:54	19.1	24	22	-2	902	Calm (0-5 mph)	1 RA 04 DEWT SW 2 - 902
8/30/2004	14:01	20.1	18	23	5	905	Calm (0-5 mph)	1 RA 04 DEWT SW 3 - 905
8/31/2004	19:32	12.0	13.5	15	1.5	912	Calm (0-5 mph)	1 RA 04 DEWT SW 4 - 912
8/31/2004	19:40	18.2	23	25	2	902	Calm (0-5 mph)	1 RA 04 DEWT SW 5 - 902
				24				1 RA 04 DEWT SW 5Dup - 902
8/31/2004	19:47	12.8	13.5	17	3.5	905	Calm (0-5 mph)	1 RA 04 DEWT SW 6 - 905
				<1.0				1 RA 04 DEWT SW 7RINSE - 905
9/1/2004	12:56	24.2	23	28	5	912	Calm (0-5 mph)	1 RA 04 DEWT SW 8 - 912
9/1/2004	13:08	51.1	39	36	-3	902	Calm (0-5 mph)	1 RA 04 DEWT SW 9 - 902
9/1/2004	13:15	22.8	21.6	25	3.4	905	Calm (0-5 mph)	1 RA 04 DEWT SW 10 - 905
9/2/2004	12:16	22.4	23	26	3	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 11 - 912
9/2/2004	12:31	34.4	35	41	6	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 12 - 902
9/2/2004	12:44	33.3	30	31	1	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 13 - 905
9/3/2004	11:55	21.1	18	20	2	912	Calm (0-10 mph)	1 RA 04 DEWT SW 14 - 912
9/3/2004	12:05	39.7	30	28	-2	902	Calm (0-10 mph)	1 RA 04 DEWT SW 15 - 902
				28				1 RA 04 DEWT SW 15Dup - 902
9/3/2004	12:13	16.6	18	20	2	905	Calm (0-10 mph)	1 RA 04 DEWT SW 16 - 905
				<1.0				1 RA 04 DEWT SW 16RINSE - 905
9/7/2004	7:22	20	32.6		NA	902	Calm (0-10 mph)	NA
9/7/2004	7:26	20.7	33		NA	905	Calm (0-10 mph)	NA
9/7/2004	7:51	15.5	28.5		NA	912	Calm (0-10 mph)	NA
9/7/2004	11:52	18.7		24	5.3	912	Calm (0-10 mph)	1 RA 04 DEWT SW 18 - 912
9/7/2004	12:07	25		29	4	902	Calm (0-10 mph)	1 RA 04 DEWT SW 19 - 902
9/7/2004	12:15	22.7		23	0.3	905	Calm (0-10 mph)	1 RA 04 DEWT SW 20 - 905
9/8/2004	11:39	51.3		58	6.7	912	Windy (15-20 mph)	1 RA 04 DEWT SW 21 - 912
9/8/2004	11:50	36		42	6	902	Windy (15-20 mph)	1 RA 04 DEWT SW 22 - 902
9/8/2004	11:56	39.9		48	8.1	905	Windy (15-20 mph)	1 RA 04 DEWT SW 23 - 905
9/9/2004	11:11	31.8	33	25	-8	912	Calm (0-5 mph)	1 RA 04 DEWT SW 24 - 912
9/9/2004	11:20	24	26	25	-1	902	Calm (0-5 mph)	1 RA 04 DEWT SW 25 - 902
9/9/2004	11:35	23.2	26	24	-2	905	Calm (0-5 mph)	1 RA 04 DEWT SW 26 - 905
9/10/2004	9:36	23.5	26	21	-5	912	Windy (10-20 mph)	1 RA 04 DEWT SW 27 - 912
9/10/2004	9:48	1100	35	22	-13	902	Windy (10-20 mph)	1 RA 04 DEWT SW 28 - 902
				23				1 RA 04 DEWT SW 28Dup - 902
9/10/2004	10:00	657	30	24	-6	905	Windy (10-20 mph)	1 RA 04 DEWT SW 29 - 905
				<1.0				1 RA 04 DEWT SW 30RINSE - 905
9/11/2004	9:43	23	30	21	-9	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 31 - 912
9/11/2004	9:53	21.7	32	24	-8	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 32 - 902
9/11/2004	10:01	44.1	33	27	-6	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 33 - 905
9/14/2004	10:43	18.8	20.5	23	2.5	912	Windy (10-20 mph)	1 RA 04 000A SW 34 - 912
9/14/2004	10:52	20	18.6	22	3.4	902	Windy (10-20 mph)	1 RA 04 000A SW 35 - 902
9/14/2004	11:01	16	16.8	21	4.2	905	Windy (10-20 mph)	1 RA 04 000A SW 36 - 905
9/15/2004	11:16	36.9	35.9	16	-19.9	912	Windy (15-25 mph)	1 RA 04 000A SW 37 - 912
9/15/2004	11:31	23.9	23	26	3	902	Windy (15-25 mph)	1 RA 04 000A SW 38 - 902
9/15/2004	11:45	24.9	25.5	26	0.5	905	Windy (15-25 mph)	1 RA 04 000A SW 39 - 905
9/16/2004	9:30	36	36	44	8	912	Breezy (5-15 mph)	1 RA 04 000A SW 40 - 912
9/16/2004	9:55	26	26	28	2	902	Breezy (5-15 mph)	1 RA 04 000A SW 41 - 902
				27				1 RA 04 000A SW 41Dup - 902
9/16/2004	10:03	34.5	34.5	34	-0.5	905	Breezy (5-15 mph)	1 RA 04 000A SW 42 - 905
				<1.0				1 RA 04 000A SW 43RINSE - 905
9/17/2004	10:32	18.2	36	15	-21	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 44 - 912
9/17/2004	10:58	17.6	17	16	-1	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 45 - 902
9/17/2004	11:08	15.3	17	14	-3	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 46 - 905
9/20/2004	12:57	39.2	36	45	9	912	Breezy (5-15 mph)	1 RA 04 000A SW 47 - 912
9/20/2004	12:31	32.4	37	35	-2	902	Breezy (5-15 mph)	1 RA 04 000A SW 48 - 902
				35				1 RA 04 000A SW 48Dup - 902
9/20/2004	12:22	31.7	36	36	0	905	Breezy (5-15 mph)	1 RA 04 000A SW 49 - 905
				1.2				1 RA 04 000A SW 50RINSE - 905
9/21/2004	10:08	39.4	38	40	2	905	Breezy (5-15 mph)	1 RA 04 000A SW 51 - 905
9/21/2004	10:21	35.4	42	38	-4	902	Breezy (5-15 mph)	1 RA 04 000A SW 52 - 902
9/21/2004	10:35	41.7	36	52	16	912	Breezy (5-15 mph)	1 RA 04 000A SW 53 - 912
9/22/2004	10:13	21.8	24	22	-2	905	Calm (0-5 mph)	1 RA 04 000A SW 54 - 905
9/22/2004	10:23	21.3	23	24	1	902	Calm (0-5 mph)	1 RA 04 000A SW 55 - 902
9/22/2004	10:38	18.5	36	28	-8	912	Calm (0-5 mph)	1 RA 04 000A SW 56 - 912
9/23/2004	11:11	15.1	19	16	-3	905	Breezy (5-15 mph)	1 RA 04 000A SW 57 - 905
9/23/2004	11:23	31.7	20	19	-1	902	Breezy (5-15 mph)	1 RA 04 000A SW 58 - 902
9/23/2004	12:17	26.6	27	29	2	912	Breezy (5-15 mph)	1 RA 04 000A SW 59 - 912
9/24/2004	9:35	18.2	19.5	22	2.5	905	Calm (0-5 mph)	1 RA 04 000A SW 60 - 905
9/24/2004	9:44	34.8	27.8	30	2.2	902	Calm (0-5 mph)	1 RA 04 000A SW 61 - 902
				30				1 RA 04 000A SW 61Dup - 902
9/24/2004	10:02	39.1	47	72	25	912	Calm (0-5 mph)	1 RA 04 000A SW 62 - 912
				1.3				1 RA 04 000A SW 63RINSE - 912
9/27/2004	11:10	11.6	12.5	14	1.5	905	Calm (0-5 mph)	1 RA 04 000A SW 64 - 905
9/27/2004	11:21	53.1	16.5	16	-0.5	902	Calm (0-5 mph)	1 RA 04 000A SW 65 - 902

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
9/27/2004	11:36	14.3	20	22	2	912	Calm (0-5 mph)	1 RA 04 000A SW 66 - 912
9/27/2004	11:46	11.6			NA	902	Calm (0-5 mph)	NA
9/27/2004	13:01	17.2			NA	902	Calm (0-5 mph)	NA
9/28/2004	11:31	33.9	38	32	-6	905	Windy (15-20 mph)	1 RA 04 000A SW 67 - 905
9/28/2004	11:38	38.7	41	33	-8	902	Windy (15-20 mph)	1 RA 04 000A SW 68 - 902
				33				1 RA 04 000A SW 68Dup - 902
9/28/2004	11:48	33.4	34	44	10	912	Windy (15-20 mph)	1 RA 04 000A SW 69 - 912
				1.2				1 RA 04 000A SW 70RINSE - 912
9/29/2004	11:38	17.3	20.5	20	-0.5	905	Calm (0-5 mph)	1 RA 04 000A SW 71 - 905
9/29/2004	11:46	19.3	27.8	23	-4.8	902	Calm (0-5 mph)	1 RA 04 000A SW 72 - 902
9/29/2004	12:22	14.2	14.5	33	18.5	912	Calm (0-5 mph)	1 RA 04 000A SW 73 - 912
9/29/2004	12:31	14.3			NA	902	Calm (0-5 mph)	NA
9/30/2004	10:20	24.6		24	-0.6	905	Calm (0-5 mph)	1 RA 04 000A SW 74 - 905
9/30/2004	10:30	18.6		22	3.4	902	Calm (0-5 mph)	1 RA 04 000A SW 75 - 902
9/30/2004	10:50	11.3		19	7.7	912	Calm (0-5 mph)	1 RA 04 000A SW 76 - 912
10/1/2004	10:34	24.9	27	22	-5	905	Breezy (10-15 mph)	1 RA 04 000A SW 77 - 905
10/1/2004	10:45	31.8	38	35	-3	902	Breezy (10-15 mph)	1 RA 04 000A SW 78 - 902
				34				1 RA 04 000A SW 78Dup - 902
10/1/2004	11:03	34	34	34	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 79 - 912
				<1.0				1 RA 04 000A SW 80RINSE - 912
10/4/2004	10:21	31.2	21.5	27	5.5	905	Breezy (10-15 mph)	1 RA 04 000A SW 81 - 905
10/4/2004	10:27	27.5	22.2	28	5.8	902	Breezy (10-15 mph)	1 RA 04 000A SW 82 - 902
10/4/2004	10:58	32.7	34	34	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 83 - 912
10/6/2004	9:09	24.5	22	26	4	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 84 - 905
10/6/2004	9:24	25.5	22	24	2	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 85 - 902
				22				1 RA 04 000A SW 85Dup - 902
10/6/2004	9:49	29	26	31	5	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 86 - 912
				<2.0				1 RA 04 000A SW 87RINSE - 912
10/7/2004	9:55	24.6	24	22	-2	905	Calm (0-7 mph)	1 RA 04 000A SW 88 - 905
10/7/2004	10:11	19.9	23	23	0	902	Calm (0-7 mph)	1 RA 04 000A SW 89 - 902
10/7/2004	10:34	72.9	70	90	20	912	Calm (0-7 mph)	1 RA 04 000A SW 90 - 912
10/8/2004	11:24	75.5	85	55	-30	905	Calm (0-8 mph)	1 RA 04 000A SW 91 - 905
10/8/2004	11:38	66.6	66	54	-12	902	Calm (0-8 mph)	1 RA 04 000A SW 92 - 902
10/8/2004	11:54	83.1	91	150	59	912	Calm (0-8 mph)	1 RA 04 000A SW 93 - 912
10/11/2004	10:36	45.9	46	29	-17	905	Calm (0-5 mph)	1 RA 04 000A SW 94 - 905
10/11/2004	10:58	40	43	32	-11	902	Calm (0-5 mph)	1 RA 04 000A SW 95 - 902
10/11/2004	11:18	72.1	90	85	-5	912	Calm (0-5 mph)	1 RA 04 000A SW 96 - 912
10/12/2004	12:27	28.3	27	28	1	905	Very Calm (0-3 mph)	1 RA 04 000A SW 97 - 905
10/12/2004	12:35	24.1	30	86	56	902	Very Calm (0-3 mph)	1 RA 04 000A SW 98 - 902
				62				1 RA 04 000A SW 98Dup - 902
10/12/2004	12:49	95.4	90	130	40	912	Very Calm (0-3 mph)	1 RA 04 000A SW 99 - 912
				<2.0				1 RA 04 000A SW 100RINSE - 912
10/13/2004	10:01	13.4	23	17	-6	905	Very Calm (0-3 mph)	000A SW 101 - 905
10/13/2004	10:16	31.3	38	17	-21	902	Very Calm (0-3 mph)	000A SW 102 - 902
10/13/2004	10:31	62.4	81	55	-26	912	Very Calm (0-3 mph)	000A SW 103 - 912
10/14/2004	8:57	50.6	46	38	-8	905	Breezy (10-15 mph)	000A SW 104 - 905
10/14/2004	9:05	52.3	45	42	-3	902	Breezy (10-15 mph)	000A SW 105 - 902
10/14/2004	9:23	177.1	160	160	0	912	Breezy (10-15 mph)	000A SW 106 - 912
10/18/2004	9:35	16.9	17	17	0	905	Mild Breeze (5-10 mph)	POG2 000A SW 107 - 905
10/18/2004	9:45	15.2	17.8	18	0.2	902	Mild Breeze (5-10 mph)	POG2 000A SW 108 - 902
10/18/2004	9:54	17.4	21.5	16	-5.5	912	Mild Breeze (5-10 mph)	POG2 000A SW 109 - 912
10/19/2004	9:49	25.1	21	24	3	905	Mild Breeze (5-10 mph)	POG2 000A SW 110 - 905
10/19/2004	9:29	15.3	16.5	17	0.5	902	Mild Breeze (5-10 mph)	POG2 000A SW 111 - 902
				17				POG2 000A SW 111Dup - 902
10/19/2004	9:21	17.7	16	13	-3	912	Mild Breeze (5-10 mph)	POG2 000A SW 112 - 912
				<2.0				POG2 000A SW 113RINSE - 912
10/20/2004	9:35	13.4	13.2	14	0.8	905	Very Calm (0-3 mph)	POG2 000A SW 114 - 905
10/20/2004	9:46	15	14.5	15	0.5	902	Very Calm (0-3 mph)	POG2 000A SW 115 - 902
10/20/2004	9:55	17.3	17.3	17	-0.3	912	Very Calm (0-3 mph)	POG2 000A SW 116 - 912
10/21/2004	11:47	10.5	13	13	0	905	Calm (0-7 mph)	POG2 000A SW 117 - 905
10/21/2004	12:01	13.6	13.3	14	0.7	902	Calm (0-7 mph)	POG2 000A SW 118 - 902
10/21/2004	12:16	18.5	15.5	18	2.5	912	Calm (0-7 mph)	POG2 000A SW 119 - 912
10/22/2004	9:54	25.2	24.8	27	2.2	905	Breezy (10-15 mph)	POG2 000A SW 120 - 905
10/22/2004	10:00	20.1	21.9	24	3.9	902	Breezy (10-15 mph)	POG2 000A SW 121 - 902
				24				POG2 000A SW 121Dup - 902
10/22/2004	10:14	18.1	21.5	19	-2.5	912	Breezy (10-15 mph)	POG2 000A SW 122 - 912
				<2.0				POG2 000A SW 123RINSE - 912
10/25/2004	9:16	25	26	30	4	905	Mild Breeze (5-10 mph)	POG2 000A SW 124 - 905
10/25/2004	9:24	19.2	21	22	1	902	Mild Breeze (5-10 mph)	POG2 000A SW 125 - 902
10/25/2004	9:37	30.6	32.2	32	-0.2	912	Mild Breeze (5-10 mph)	POG2 000A SW 126 - 912
10/26/2004	10:31	19.2	19.2	27	7.8	905	Windy (10-20 mph)	POG2 000A SW 127 - 905
10/26/2004	10:40	30.2	29.9	35	5.1	902	Windy (10-20 mph)	POG2 000A SW 128 - 902
				34				POG2 000A SW 128Dup - 902
10/26/2004	10:50	25.8	26.9	29	2.1	912	Windy (10-20 mph)	POG2 000A SW 129 - 912

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

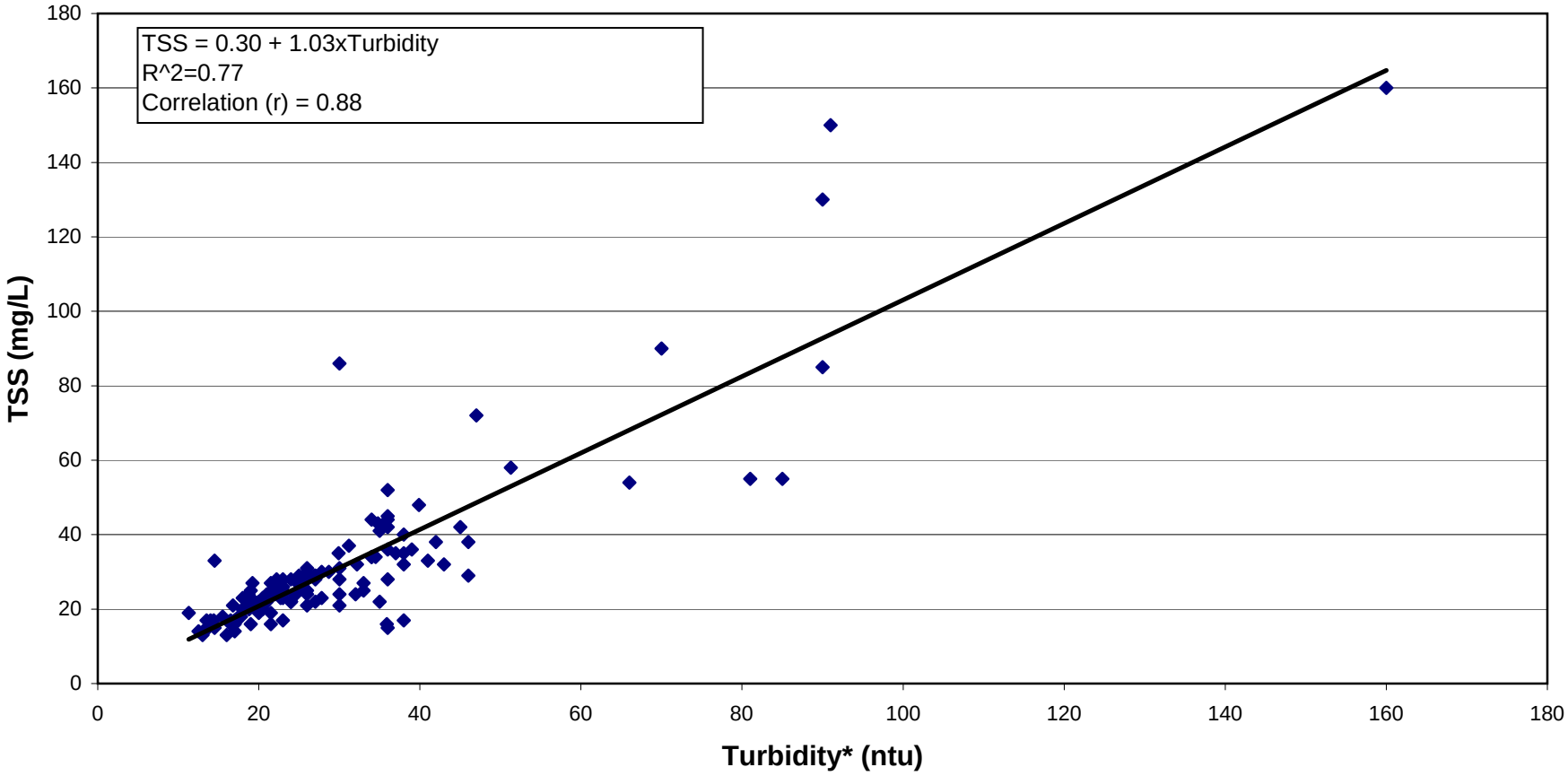
Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
				<1.0				POG2 000A SW 130RINSE - 912
10/27/2004	8:40	17.7	18.8	20	1.2	905	Windy (10-20 mph)	POG2 000A SW 131 - 905
10/27/2004	8:52	25.2	24	28	4	902	Windy (10-20 mph)	POG2 000A SW 132 - 902
10/27/2004	9:03	29.8	28.7	30	1.3	912	Windy (10-20 mph)	POG2 000A SW 133 - 912
10/28/2004	9:01	14.4	14	17	3	905	Calm (0-10 mph)	POG2 000A SW 134 - 905
10/28/2004	9:07	15.1	14.4	17	2.6	902	Calm (0-10 mph)	POG2 000A SW 135 - 902
10/28/2004	9:21	19.8	17.5	18	0.5	912	Calm (0-10 mph)	POG2 000A SW 136 - 912
10/29/2004	10:56	36.4	34.8	43	8.2	905	Calm (0-5 mph)	POG2 000A SW 137 - 905
10/29/2004	11:03	33.2	31.2	37	5.8	902	Calm (0-5 mph)	POG2 000A SW 138 - 902
				34				POG2 000A SW 138Dup - 902
10/29/2004	11:16	23.6	24.4	24	-0.4	912	Calm (0-5 mph)	POG2 000A SW 139 - 912
				<1.0				POG2 000A SW 140RINSE - 912
11/1/2004	11:01	19.9	21.7			905	Calm (0-5 mph)	POG2 000A SW 141 - 905
11/1/2004	11:08	23.9	24.6			902	Calm (0-5 mph)	POG2 000A SW 142 - 902
11/1/2004	11:18	26.5	26.8			912	Calm (0-5 mph)	POG2 000A SW 143 - 912
11/2/2004	8:41	19.3	17			905	Breezy (5-15 mph)	POG2 000A SW 144 - 905
11/2/2004	8:49	18.3	16.2			902	Breezy (5-15 mph)	POG2 000A SW 145 - 902
11/2/2004	8:59	34.4	35			912	Breezy (5-15 mph)	POG2 000A SW 146 - 912
11/3/2004	9:04	8.5	11.2			905	Calm (0-5 mph)	POG2 000A SW 147 - 905
11/3/2004	9:24	11.9	10.2			902	Calm (0-5 mph)	POG2 000A SW 148 - 902
								POG2 000A SW 148Dup - 902
11/3/2004	9:31	11.7	13.5			912	Calm (0-5 mph)	POG2 000A SW 149 - 912
	9:33	11.7	12.6			912		POG2 000A SW 150RINSE - 912
11/4/2004	11:10	24	24.8			905	Mild Breeze (5-10 mph) with Gusts	POG2 000A SW 151 - 905
11/4/2004	11:16	24.8	20.8			902	Mild Breeze (5-10 mph) with Gusts	POG2 000A SW 152 - 902
11/4/2004	11:23	23.8	21.7			912	Mild Breeze (5-10 mph) with Gusts	POG2 000A SW 153 - 912
11/5/2004	10:11	10.2	10.5			905	Breezy (5-15 mph)	POG2 000A SW 154 - 905
11/5/2004	10:18	12.9	11.6			902	Breezy (5-15 mph)	POG2 000A SW 155 - 902
11/5/2004	10:23	19.6	21			912	Breezy (5-15 mph)	POG2 000A SW 156 - 912
11/8/2004	9:28	10.5	10.4			905	Calm (0-10 mph)	POG2 000A SW 157 - 905
11/8/2004	9:38	11.6	10.9			902	Calm (0-10 mph)	POG2 000A SW 158 - 902
11/8/2004	9:46	15	15.2			912	Calm (0-10 mph)	POG2 000A SW 159 - 912

[1] Sampling time approximate - readings collected on regular 15 minute intervals.

[2] Hand-held turbidity used in difference if available.

Data presented are Draft and Preliminary. These data have not undergone QA procedures and should not be viewed as final.

TSS/Turbidity Correlation
Data presented are Draft and Preliminary



Note: Includes data collected 8/30/04 - 10/29/04

*Data are hand held turbidity readings when available, otherwise telemetric reading sampled closest in time

Attachment 5

GW Partners
Lower Fox River - OU-1
04G007
Field Turbidity

Date	Time	Turbidity using Hand-held Meter (NTU)	Telemetric Turbidity Reading (NTU)	Difference between Telemetric and Hand-held	Sonde Location	Comments
9/15/2004	12:01	54	NA	NA	200' downstream of hydraulic dredge on north end of Deposit A	Windy (15-25 mph)
9/16/2004	9:05	38.5	NA	NA	Middle of Lake - east of DEWT	Breezy (5-15 mph)
9/16/2004	9:30	36	35.7	0.3	912	Breezy (5-15 mph)
9/16/2004	9:50	35	NA	NA	150-200' downstream of hydraulic dredge on north end of Deposit A	Breezy (5-15 mph)
9/16/2004	9:55	26	24.7	1.3	902	Breezy (5-15 mph)
9/16/2004	10:03	34.5	31.6	2.9	905	Breezy (5-15 mph)
9/17/2004	10:17	29	NA	NA	Middle of Lake - east of DEWT	Mild Breeze (5-10 mph)
9/17/2004	10:32	16	18.2	-2.2	912	Mild Breeze (5-10 mph)
9/17/2004	10:50	26	NA	NA	100-150' downstream of hydraulic dredge on north end of Deposit A	Mild Breeze (5-10 mph)
9/17/2004	10:58	17	17.6	-0.6	902	Mild Breeze (5-10 mph)
9/17/2004	11:08	17	15.3	1.7	905	Mild Breeze (5-10 mph)
9/20/2004	12:22	36	31.7	4.3	905	Breezy (5-15 mph)
9/20/2004	12:31	37	32.4	4.6	902	Breezy (5-15 mph)
9/20/2004	12:57	40	39.2	0.8	912	Breezy (5-15 mph)
9/21/2004	10:08	38	39.4	-1.4	905	Breezy (5-15 mph)
9/21/2004	10:21	42	35.4	6.6	902	Breezy (5-15 mph)
9/21/2004	10:30	59	NA	NA	150' downstream of hydraulic dredge - Deposit A	Breezy (5-15 mph)
9/21/2004	10:35	51	41.7	9.3	912	Breezy (5-15 mph)
9/22/2004	10:13	24	21.8	2.2	905	Calm (0-5 mph)
9/22/2004	10:23	23	21.3	1.7	902	Calm (0-5 mph)
9/22/2004	10:35	31.7	NA	NA	100-150' downstream of hydraulic dredge - Deposit A	Calm (0-5 mph)
9/22/2004	10:38	26	18.5	7.5	912	Calm (0-5 mph)
9/22/2004	11:08	39	NA	NA	Middle of lake - east of marine staging area	Calm (0-5 mph)
9/23/2004	11:11	19	15.1	3.9	905	Breezy (5-15 mph)
9/23/2004	11:23	20	31.7	-11.7	902	Breezy (5-15 mph)
9/23/2004	12:12	38	NA	NA	100' downstream of hydraulic dredge - Deposit A	Breezy (5-15 mph)
9/23/2004	12:17	27	26.6	0.4	912	Breezy (5-15 mph)
9/24/2004	9:35	19.5	18.2	1.3	905	Calm (0-5 mph)
9/24/2004	9:44	27.8	34.8	-7	902	Calm (0-5 mph)
9/24/2004	9:52	72	NA	NA	100' downstream of hydraulic dredge - Deposit A	Calm (0-5 mph)
9/24/2004	10:02	47	39.1	7.9	912	Calm (0-5 mph)
9/27/2004	11:10	12.5	11.6	0.9	905	Calm (0-5 mph)
9/27/2004	11:21	16.5	53.1	-36.6	902	Calm (0-5 mph), Telemetric reading unrealistic - optical brush missing
9/27/2004	11:28	32	NA	NA	75-100' downstream of hydraulic dredge - Deposit A	Calm (0-5 mph)
9/27/2004	11:36	20	14.3	5.7	912	Calm (0-5 mph)
9/27/2004	11:46	14	11.6	2.4	902	Calm (0-5 mph)
9/27/2004	13:01	19.5	17.2	2.3	902	Calm (0-5 mph)
9/28/2004	11:31	38	33.9	4.1	905	Windy (15-20 mph)
9/28/2004	11:38	41	38.7	2.3	902	Windy (15-20 mph), Telemetric time used: 12:01 - unrealistic readings at 11:31 and 11:46
9/28/2004	11:48	34	33.4	0.6	912	Windy (15-20 mph)
9/28/2004	11:55	90	NA	NA	25-50' west of hydraulic dredge - Deposit A	Windy (15-20 mph)
9/29/2004	11:38	20.5	17.3	3.2	905	Calm (0-5 mph)
9/29/2004	11:46	27.8	19.3	8.5	902	Calm (0-5 mph), Telemetric time used: 11:31 - unrealistic reading at 11:16 (1112.2 NTU)

9/29/2004	12:05	31	NA	NA	75-100' downstream of hydraulic dredge - Deposit A	Calm (0-5 mph)
9/29/2004	12:22	14.5	14.2	0.3	912	Calm (0-5 mph)
9/29/2004	12:31	15.5	14.3	1.2	902	Calm (0-5 mph)
10/1/2004	10:34	27	24.9	2.1	905	Breezy (10-15 mph)
10/1/2004	10:45	38	31.8	6.2	902	Breezy (10-15 mph)
10/1/2004	10:58	38	NA	NA	75-100' downstream of hydraulic dredge - Deposit A	Breezy (10-15 mph)
10/1/2004	11:03	34	34.6	-0.6	912	Breezy (10-15 mph)
10/4/2004	10:21	21.5	31.2	-9.7	905	Breezy (10-15 mph)
10/4/2004	10:27	22.2	27.5	-5.3	902	Breezy (10-15 mph)
10/4/2004	10:58	34	32.7	1.3	912	Breezy (10-15 mph), Telemetric time used: 10:16 - unrealistic reading at 11:01 (105.6 NTU)
10/6/2004	9:09	22	24.5	-2.5	905	Mild Breeze (5-10 mph)
10/6/2004	9:24	22	25.5	-3.5	902	Mild Breeze (5-10 mph)
10/6/2004	9:30	36	NA	NA	75-100' downstream of hydraulic dredge - Deposit A	Mild Breeze (5-10 mph)
10/6/2004	9:49	26	29	-3	912	Mild Breeze (5-10 mph)
10/7/2004	9:55	24	24.6	-0.6	905	Calm (0-7 mph)
10/7/2004	10:11	23	19.9	3.1	902	Calm (0-7 mph)
10/7/2004	10:34	70	72.9	-2.9	912	Calm (0-7 mph), Telemetric time used: 10:46 - more realistic than at 11:31 (101.9 NTU)
10/7/2004	10:36	61	NA	NA	75' downstream of hydraulic dredge - Deposit A	Calm (0-7 mph)
10/8/2004	11:24	85	75.5	9.5	905	Calm (0-8 mph), Telemetric time used: 11:46 - more realistic than at 11:31 (58.7 NTU)
10/8/2004	11:38	66	66.6	-0.6	902	Calm (0-8 mph)
10/8/2004	11:54	91	83.1	7.9	912	Calm (0-8 mph)
10/11/2004	10:36	46	45.9	0.1	905	Calm (0-5 mph)
10/11/2004	10:58	43	40	3	902	Calm (0-5 mph), Telemetric time used: 11:16 - unrealistic reading at 11:01 (1080.4 NTU)
10/11/2004	11:18	90	72.1	17.9	912	Calm (0-5 mph)
10/11/2004	11:27	56	NA	NA	50-75' downstream of hydraulic dredge - Deposit A	Calm (0-5 mph)
10/12/2004	12:27	27	28.3	-1.3	905	Very Calm (0-3 mph)
10/12/2004	12:35	30	24.1	5.9	902	Very Calm (0-3 mph)
10/12/2004	12:42	39	NA	NA	50-75' downstream of hydraulic dredge - Deposit A	Very Calm (0-3 mph)
10/12/2004	12:49	90	95.4	-5.4	912	Very Calm (0-3 mph), Telemetric time used: 13:16 - more realistic than at 12:31 (79.7 NTU)
10/13/2004	10:01	23	13.4	9.6	905	Very Calm (0-3 mph)
10/13/2004	10:16	38	31.3	6.7	902	Very Calm (0-3 mph)
10/13/2004	10:25	32	NA	NA	~50' downstream of hydraulic dredge - Deposit A	Very Calm (0-3 mph)
10/13/2004	10:31	81	62.4	18.6	912	Very Calm (0-3 mph)
10/14/2004	8:57	46	50.6	-4.6	905	Breezy (10-15 mph)
10/14/2004	9:05	45	52.3	-7.3	902	Breezy (10-15 mph), Telemetric time used: 10:01 - more realistic than at 9:16 (71.1 NTU)
10/14/2004	9:15	60	NA	NA	25-50' upstream of hydraulic dredge - Deposit A	Breezy (10-15 mph)
10/14/2004	9:23	160	177.1	-17.1	912	Breezy (10-15 mph)
10/14/2004	9:30	68	NA	NA	25-50' upstream of hydraulic dredge - Deposit A	Breezy (10-15 mph)
10/14/2004	9:32	120	NA	NA	25-50' downstream of hydraulic dredge - Deposit A	Breezy (10-15 mph)
10/14/2004	9:36	131	NA	NA	~20' W-SW of hydraulic dredge - Deposit A	Breezy (10-15 mph)
10/18/2004	9:35	17	16.9	0.1	905	Mild Breeze (5-10 mph)
10/18/2004	9:45	17.8	15.2	2.6	902	Mild Breeze (5-10 mph)
10/18/2004	9:54	21.5	17.4	4.1	912	Mild Breeze (5-10 mph)
10/19/2004	9:49	21	25.1	-4.1	905	Mild Breeze (5-10 mph)
10/19/2004	9:29	16.5	15.3	1.2	902	Mild Breeze (5-10 mph)
10/19/2004	9:21	16	17.7	-1.7	912	Mild Breeze (5-10 mph)
10/20/2004	9:35	13.2	13.4	-0.2	905	Very Calm (0-3 mph)
10/20/2004	9:46	14.5	15	-0.5	902	Very Calm (0-3 mph)
10/20/2004	9:55	17.3	17.3	0	912	Very Calm (0-3 mph)

10/21/2004	11:47	13	10.5	2.5	905	Calm (0-7 mph)
10/21/2004	12:01	13.3	13.6	-0.3	902	Calm (0-7 mph)
10/21/2004	12:16	15.5	18.5	-3	912	Calm (0-7 mph)
10/22/2004	9:54	24.8	25.2	-0.4	905	Breezy (10-15 mph)
10/22/2004	10:00	21.9	20.1	1.8	902	Breezy (10-15 mph)
10/22/2004	10:07	41	NA	NA	~25' downstream of hydraulic dredge - Deposit POG-2	Breezy (10-15 mph)
10/22/2004	10:14	21.5	18.1	3.4	912	Breezy (10-15 mph)
10/25/2004	9:16	26	25	1	905	Mild Breeze (5-10 mph)
10/25/2004	9:24	21	19.2	1.8	902	Mild Breeze (5-10 mph)
10/25/2004	9:37	32.2	30.6	1.6	912	Mild Breeze (5-10 mph)
10/26/2004	10:31	19.2	19.2	0	905	Windy (10-20 mph)
10/26/2004	10:40	29.9	30.2	-0.3	902	Windy (10-20 mph)
10/26/2004	10:45	38	NA	NA	~50' downstream of hydraulic dredge - Deposit POG-2	Windy (10-20 mph)
10/26/2004	10:50	26.9	25.8	1.1	912	Windy (10-20 mph)
10/27/2004	8:40	18.8	17.7	1.1	905	Windy (10-20 mph)
10/27/2004	8:52	24	25.2	-1.2	902	Windy (10-20 mph)
10/27/2004	9:03	28.7	29.8	-1.1	912	Windy (10-20 mph)
10/28/2004	9:01	14	14.4	-0.4	905	Calm (0-10 mph)
10/28/2004	9:07	14.4	15.1	-0.7	902	Calm (0-10 mph)
10/28/2004	9:15	20	NA	NA	~25-50' downstream of hydraulic dredge - Deposit POG-2	Calm (0-10 mph)
10/28/2004	9:21	17.5	19.8	-2.3	912	Calm (0-10 mph)
10/29/2004	10:56	34.8	36.4	-1.6	905	Calm (0-5 mph)
10/29/2004	11:03	31.2	33.2	-2	902	Calm (0-5 mph)
10/29/2004	11:10	27.5	NA	NA	~25' downstream of hydraulic dredge - Deposit POG-2	Calm (0-5 mph)
10/29/2004	11:16	24.4	23.6	0.8	912	Calm (0-5 mph)
11/1/2004	11:01	21.7	19.9	1.8	905	Calm (0-5 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/1/2004	11:08	24.6	23.9	0.7	902	Calm (0-5 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/1/2004	11:13	25.9	NA	NA	~25' downstream of hydraulic dredge - Deposit POG-2	Calm (0-5 mph)
11/1/2004	11:18	26.8	26.5	0.3	912	Calm (0-5 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/2/2004	8:41	17	19.3	-2.3	905	Breezy (5-15 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/2/2004	8:49	16.2	18.3	-2.1	902	Breezy (5-15 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/2/2004	8:56	35.8	NA	NA	~25' downstream of hydraulic dredge - Deposit POG-2	Breezy (5-15 mph)
11/2/2004	8:59	35	34.4	0.6	912	Breezy (5-15 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/3/2004	9:04	11.2	8.5	2.7	905	Calm (0-5 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/3/2004	9:24	10.2	11.9	-1.7	902	Calm (0-5 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/3/2004	9:30	11.2	NA	NA	~25' downstream of hydraulic dredge - Deposit POG-2	Calm (0-5 mph)
11/3/2004	9:31	13.5	11.7	1.8	912	Calm (0-5 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/3/2004	9:33	12.6	11.7	0.9	912	Calm (0-5 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/4/2004	11:10	24.8	24	0.8	905	Mild Breeze (5-10 mph) with Gusts, Telemetric Readings are off by one hour due to time change on 10/31
11/4/2004	11:16	20.8	24.8	-4	902	Mild Breeze (5-10 mph) with Gusts, Telemetric Readings are off by one hour due to time change on 10/31

11/4/2004	11:23	21.7	23.8	-2.1	912	Mild Breeze (5-10 mph) with Gusts, Telemetric Readings are off by one hour due to time change on 10/31
11/5/2004	10:11	10.5	10.2	0.3	905	Breezy (5-15 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/5/2004	10:18	11.6	12.9	-1.3	902	Breezy (5-15 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/5/2004	10:23	21	19.6	1.4	912	Breezy (5-15 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/5/2004	10:30	26	NA	NA	~100' upstream of hydraulic dredge - Deposit POG-2 (near SCA intake)	Breezy (5-15 mph)
11/5/2004	10:30	24.1	NA	NA	~60' upstream of hydraulic dredge - Deposit POG-2	Breezy (5-15 mph)
11/5/2004	10:30	17.7	NA	NA	~40' upstream of hydraulic dredge - Deposit POG-2	Breezy (5-15 mph)
11/5/2004	10:30	26.6	NA	NA	~30' upstream of hydraulic dredge - Deposit POG-2	Breezy (5-15 mph)
11/5/2004	10:30	29	NA	NA	~20' upstream of hydraulic dredge - Deposit POG-2	Breezy (5-15 mph)
11/5/2004	10:30	24.5	NA	NA	~10' upstream of hydraulic dredge - Deposit POG-2	Breezy (5-15 mph)
11/5/2004	10:30	30.2	NA	NA	~5' upstream of hydraulic dredge - Deposit POG-2	Breezy (5-15 mph)
11/5/2004	10:30	35	NA	NA	At the dredge cutterhead (between the pontoons)	Breezy (5-15 mph)
11/5/2004	10:30	23	NA	NA	~15' downstream of hydraulic dredge - Deposit POG-2	Breezy (5-15 mph)
11/5/2004	10:30	20	NA	NA	~30' downstream of hydraulic dredge - Deposit POG-2	Breezy (5-15 mph)
11/5/2004	10:30	20	NA	NA	~50' downstream of hydraulic dredge - Deposit POG-2	Breezy (5-15 mph)
11/8/2004	9:28	10.4	10.5	-0.1	905	Calm (0-10 mph)
11/8/2004	9:38	10.9	11.6	-0.7	902	Calm (0-10 mph)
11/8/2004	9:46	15.2	15	0.2	912	Calm (0-10 mph)
11/8/2004	9:50	15.2	NA	NA	~50' upstream of hydraulic dredge - Deposit POG-2	Calm (0-10 mph)
11/8/2004	9:50	13.9	NA	NA	~25' upstream of hydraulic dredge - Deposit POG-2	Calm (0-10 mph)
11/8/2004	9:50	14.4	NA	NA	~10' upstream of hydraulic dredge - Deposit POG-2	Calm (0-10 mph)
11/8/2004	9:50	14.1	NA	NA	~10' downstream of hydraulic dredge - Deposit POG-2	Calm (0-10 mph)
11/8/2004	9:50	14	NA	NA	~25' downstream of hydraulic dredge - Deposit POG-2	Calm (0-10 mph)
11/8/2004	9:50	17.8	NA	NA	~50' downstream of hydraulic dredge - Deposit POG-2	Calm (0-10 mph)
11/8/2004	9:50	14.8	NA	NA	~100' downstream of hydraulic dredge - Deposit POG-2	Calm (0-10 mph)
11/8/2004	9:50	13.5	NA	NA	~150' downstream of hydraulic dredge - Deposit POG-2	Calm (0-10 mph)

Attachment 6

GW Partners
Lower Fox River - OU-1
04G007
Effluent Results - Draft and Preliminary

Date	Sample ID	TSS (mg/L)	BOD (mg/L)	Daily Flow (million gallons)[c]	Ammonia Nitrogen (mg/L)	Total PCBs (ug/L)	Mercury (Low-Level) (ng/L)
9/3/04	IRA04 DEWT EF1	21	-	-	<0.32	<0.26	-
9/7/04	IRA04 DEWT EF2	9.0	-	-	0.67	<0.24	-
9/9/04	IRA04 DEWT EF3	19	-	-	3.1	<0.24	-
9/10/04	IRA04 DEWT EF4	24	-	-	4.5	<0.32	-
9/11/04	IRA04 DEWT EF5	16	-	-	2.9	<0.25	-
9/13/04	IRA04 DEWT EF6	12	-	-	4.9	<0.26	-
9/15/04	IRA04 DEWT EF7	87	-	-	6.7	<0.25	-
9/16/04	IRA04 DEWT EF8	40	16	0.8	4.4	<0.25	-
9/17/04	IRA04 DEWT EF9	33	12	-	3.2	<0.25	-
9/17/04 Dup.	IRA04 DEWT EF9 DUP	31	-	-	3.1	-	-
9/20/04	IRA04 DEWT EF10	11	3.1	1.1	2.2	<0.26	-
9/20/04	IRA04 DEWT EF10 Dup	-	-	-	-	<0.25	-
9/21/04	IRA04 DEWT EF11	17	3.2	0.3	1.8	<0.25	-
9/21/04	IRA04 DEWT EF11 Dup	-	3.2	-	-	-	-
9/22/04	IRA04 DEWT EF12	17	6.6	0.4	1.5	<0.25	-
9/23/04	IRA04 DEWT EF13	20	3.4	1.0	1.5	<0.25	-
9/24/04	IRA04 DEWT EF14	18	3.1	0.4	1.4	<0.25	-
9/25/04	IRA04 DEWT EF15	19	<2.0	-	1.5	<0.25	-
9/27/04	IRA04 DEWT EF16	10	<2.0	0.6	1.7	<0.25	-
9/28/04	IRA04 DEWT EF17	11	4.2	0.7	1.5	<0.26	-
9/29/04	IRA04 DEWT EF18	13	4.4	0.6	1.4	<0.26	-
9/29/04	IRA04 DEWT EF18 Dup	10	4.3	-	1.4	<0.25	-
9/30/04	IRA04 DEWT EF19	11	5.4	0.5	1.4	<0.25	-
10/1/04	IRA04 DEWT EF20	12	5.9	0.8	<0.32	<0.25	-
10/2/04	IRA04 DEWT EF21	23	9.6	-	1.2	<0.24	-
10/4/04	-	-	-	0.6	-	-	-
10/5/04	IRA04 DEWT EF22	20	7.7	-	1.4	<0.25	-
10/7/04	IRA04 DEWT EF23	13	4.5	1.1	3.7	<0.24	-
10/8/04	IRA04 DEWT EF24	14	6.0	0.6	3.8	<0.25	-
10/9/04	IRA04 DEWT EF25	4.4	<2.0	-	4.9	<0.25	-
10/11/04	IRA04 DEWT EF26	3.3	<2.0	0.5	4.4	<0.25	-
10/12/04	IRA04 DEWT EF27	3.6	<2.0	0.2	4.7	<0.25	-
10/13/04	DEWT EF28	2.4	<2.0	0.5	5.1	<0.52	-
10/14/04	DEWT EF29	9.3	5.2	0.3	4.5	<0.25	-
10/14/04	DEWT EF29 Dup	-	-	-	4.5	-	-
10/15/04	DEWT EF30	10	8.0	-	3.9	-	-
10/18/04	-	-	-	0.7	-	-	-
10/19/04	DEWT EF31	10	7.6	0.6	8.8	<0.25	-
10/19/04	DEWT EF31 Dup.	10	7.4	-	-	<0.25	-
10/20/04	DEWT EF32	20	24	0.3	8.7	<0.25	-
10/21/04	DEWT EF33	12	14	0.6	12	<0.25	-
10/22/04	DEWT EF34	20	18	0.56	9.3	<0.25	-
10/23/04	DEWT EF35	6.5	6.9	-	23	-	-
10/24/04	DEWT EF36	<5.0	3.2	0.34	28	-	-
10/26/04	DEWT EF37	3.8	3.6	0.3	34	-	-
10/27/04	DEWT EF38	6.4	6.1	0.34	36	-	-
10/28/04	DEWT EF39	6.4	4.0	0.31	39	-	3.25
10/28/04	DEWT EF39 TB	-	-	-	-	-	<0.197
10/29/04	DEWT EF40	8.2	4.3	0.5	35	-	-
10/29/04	DEWT EF40 Dup.	6.8	4.3	-	42	-	-

GW Partners
Lower Fox River - OU-1
04G007
Effluent Results - Draft and Preliminary

Date	Sample ID	TSS (mg/L)	BOD (mg/L)	Daily Flow (million gallons)[c]	Ammonia Nitrogen (mg/L)	Total PCBs (ug/L)	Mercury (Low-Level) (ng/L)
10/30/04	DEWT EF41	5.6	-	0.5	-	-	-
Performance Expectation		5[a], 10[b]	10	1.2 - 1.7 (mgd)		< 0.1 - 0.5	

[a] Monthly average

[b] Daily maximum

[c] Daily flow measured from midnight to midnight through 10/26/04 then measured at approx 10:00 AM till 10:00 AM thereafter.
Data received by 11/8/04
Data presented are Draft and Preliminary.
These data have not undergone QA procedures and should not be viewed as final.

Attachment 7

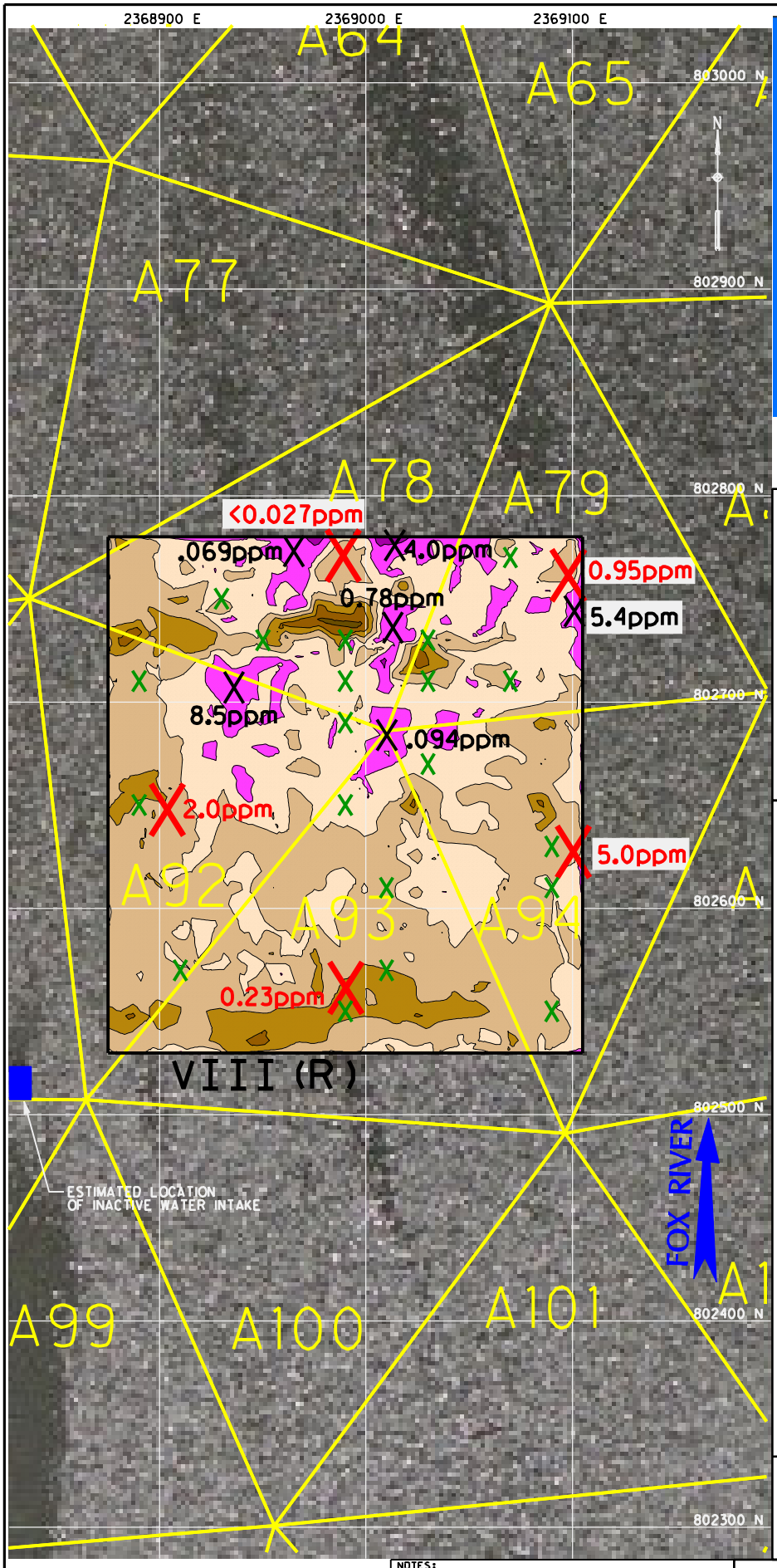
GW Partners
Lower Fox River - OU-1
04G007
Sediment Results - Draft and Preliminary

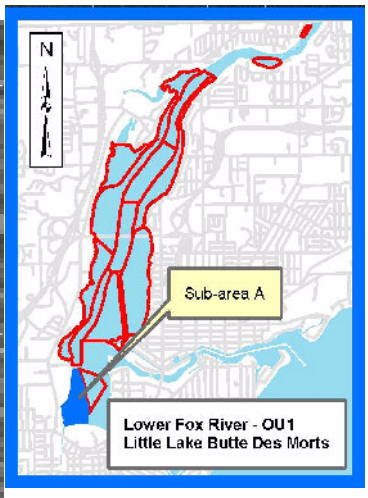
Date	Sample ID	Percent Solids (%)	Percent Solids Air Dried (%)	Total PCBs (ug/Kg)
10/11/04	I-RA-04-OOOA-DS-1	61	99	170
10/11/04	I-RA-04-OOOA-PS-1P	61	100	1200
10/11/04	I-RA-04-OOOA-PS-6P	62	100	1700
10/11/04	OOOA-PS-7S-10S	69	100	550
10/11/04	I-RA-04-OOOA-PS-11P	72	100	290
10/11/04	I-RA-04-OOOA-PS-21P	53	100	460
10/12/04	I-RA-04-OOOA-PS-16P	69	100	440
10/25/04	OOOA-PS-26P	64	99	<27
10/25/04	OOOA-PS-ATE1-51	48	98	69(Q)
10/25/04	OOOA-PS-ATE2-52	27	98	4000
10/25/04	OOOA-PS-ATE3-53	45	98	780
10/25/04	OOOA-PS-ATE4-54	22	98	5400
10/25/04	OOOA-PS-ATE1-55	22	97	8500
10/25/04	OOOA-PS-ATE1-56	57	98	94
10/25/04	OOOA-PS-31P	42	98	950
10/25/04	OOOA-PS-36P	22	97	2000
10/25/04	OOOA-PS-41P	57	99	230
10/25/04	OOOA-PS-46P	23	97	5000

E - Analyte concentration exceeds calibration range.
Q - Result between LOD and LOQ.

Data received by 11/8/04
Data presented are Draft and Preliminary.
These data have not undergone QA procedures and should not be viewed as final.

Attachment 8





SEDIMENT REMAINING

REGION VIII (R) INSIDE LIMITS
ABOVE 1 PPM RAL
24 C.Y.

SEDIMENT OVERCUT

REGION VIII (R) INSIDE LIMITS
BELOW 1 PPM RAL
1.130 C.Y.

SEDIMENT REMOVAL

REGION VIII (R) INSIDE LIMITS
3.440 C.Y.

REGION VIII (R) INSIDE & OUTSIDE LIMITS
3.700 C.Y.

LEGEND

SEDIMENT REMOVAL

- 0.5 - 0.9' REMAINING ABOVE 1 PPM RAL (0.2% OF AREA)
- 0.0 - 0.5' REMAINING ABOVE 1 PPM RAL (8% OF AREA)
- 0.0 - 0.5' CUT BELOW 1 PPM RAL (37% OF AREA)
- 0.5 - 1.0' CUT BELOW 1 PPM RAL (46% OF AREA)
- 1.0 - 1.5' CUT BELOW 1 PPM RAL (8% OF AREA)
- 1.5 - 2.0' CUT BELOW 1 PPM RAL (0.7% OF AREA)
- 2.0 - 2.2' CUT BELOW 1 PPM RAL (0.1% OF AREA)
- X SECONDARY SAMPLE LOCATION
- X ADDITIONAL SAMPLE LOCATION WITH LAB RESULTS
- X PRIMARY SAMPLE LOCATION WITH LAB RESULTS
- VIII (R) 2004 REMOVAL REGION

0 25' 50' 75' 100'
BAR SCALE

Foth & Van Dyke

NOTES:

1. SEDIMENT ISOPACH CREATED BY USING GMS DERIVED 1 PPM DREDGE CONTOURS VS BRENNAN'S OCTOBER 18, 2004 SURVEY.
2. SEDIMENT REMOVAL VOLUMES OBTAINED USING BRENNAN'S SEPTEMBER 10 AND OCTOBER 18, 2004 SURVEYS.
3. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
4. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
5. SUB-AREA A DELINEATION FROM 2003 PRE-DESIGN SAMPLING PLAN.

DRAFT

GW PARTNERS

FIGURE 3

LOWER FOX RIVER
SUB-AREA A - REGION VIII (R)
MODIFIED POST DREDGE SAMPLING PLAN

Prepared By: Foth & Van Dyke	Date: NOV. 3, 2004
Drawn By: JRB2	Checked By: DMR	Scope: 04G007

i:\02g005\NAD 83 - NAVD 88 DATUM\GMS\Deposit-A\2g05fig33B.3d
11/09/2004 dot

DRAFT

Foth & Van Dyke

Memorandum

November 16, 2004

TO: Ben Hung, WDNR
Greg Hill, WDNR
Gary Kincaid, WDNR
Jim Hahnenberg, EPA
Boldt Oversight Team

CC: Bill Hartman, GW Partners
Amie Obermeier, GW Partners
Sherman LaViolette, CH2MHill
Mike Jury, CH2MHill
Tara Konkle, Foth & Van Dyke
Steve Laszewski, Foth & Van Dyke

FR: Jim Hutchison, Foth & Van Dyke

RE: OU1 2004 Environmental Monitoring Data – November 5 through November 12, 2004

Attached are monitoring data for the one week period beginning November 5, 2004 and ending November 12, 2004 for the environmental monitoring activities pursuant to the 2004 RA Work Plan, May, 2004 and subsequent addendum. If you have any questions or comments please contact Jim Hutchison at (920) 497 2500 or at jhutchison@foth.com. In addition to the weekly data summary, project data will be provided in a database format following completion of the 2004 RA work.

Data presented are draft and preliminary. These data have not undergone QA procedures and should not be viewed as final.

Air Monitoring Data:

Summary: Air sampling at the four meter locations was initiated on August 7, 2004. Sampling consisted of a 72 hour sampling event per week. Continuous sampling began on August 30, 2004.

Attachment 1 – Summary of River Sampling Results 10/26/04 through 11/1/04
Attachment 2 – Monitor location sketch

Surface Water Data:

Summary: River turbidity meters began operation on August 20, 2004 monitoring river turbidity (NTUs) every 15 minutes at three locations. The meters are located upstream (meter 912), downstream (meter 902) and far downstream (meter 905) of dredging activities. Dredging was performed on 11/5/04 and 11/8/04. Sand placement was performed from 11/10/04 through 11/12/04. The turbidity meters were placed around the sand placement area on 11/9/04 in the same fashion as the dredging area. Generally the data show that the downstream turbidity has been within acceptable limits of the upstream turbidity. **Please note the turbidity data graphs indicate dredging, no dredging and sand placement times.**

Attachment 3 - Graphs and Tabulation of Turbidity Data for Upstream, Downstream, Far Downstream and Upstream/Downstream Difference Graph

Field Surface Water Data

Summary: Field data includes hand held turbidity measurements and TSS sampling taken at the turbidity monitoring stations between August 30, 2004 and November 15, 2004. The correlation between TSS and turbidity to date (11/10/04) shows a correlation coefficient of 0.88. A new table showing additional rising turbidity results related to the dredge is shown in Attachment 5.

Attachment 4 -TSS and Field Turbidity Data and TSS/Turbidity Correlation
Attachment 5 –-Field Turbidity

Water Treatment Data:

Summary: The effluent water is being analyzed for TSS, PCBs, Ammonia and BOD. Low level mercury is also analyzed once per week. Attachment 6 contains data through 11/12/04.

Attachment 6 - Effluent Water Results

Post-Dredge Bathymetric QA Summary

Summary: QA bathymetric data for Region VIII of Deposit A was included in the October 26, 2004 memorandum.

Sediment Sample Verification:

Summary: Post dredging sediment samples collection began on October 11, 2004 and finished on October 12, 2004 in Region IV of Deposit A. Post dredging sediment sample collection in Region VIII of Deposit A was completed on October 25, 2004. The sediment PCB results are shown in Attachment 7. The results for region 8 (in Sub Area A) are shown in Attachment 8. Two secondary samples were tested in Region 8.

Attachment 7 - Sediment Results
Attachment: 8 - Sub Area Region IV Post Dredge Sediment Sample Results

Sand Placement Verification:

Summary: Sand placement was initiated on November 10, 2004. Verification of sand placement thickness has not been completed to date.

Attachment: None

Note: Transmitted when available, as this data will be obtained less frequently than other project environmental data.

Attachment 1

GW Partners, LLC

Lower Fox River Operable Unit 1

Summary of Air Sampling Results Calculated through November 16, 2004

All Results Reported in Total PCBs[1]

Dates	Sampling Round	Location ID	Sample ID	Laboratory Method[2]	Laboratory Reporting Limit (Total µg of PCBs)	Laboratory Results (Total µg of PCBs)[3]	Total Air Volume Sampled (Total m^3)		Calculated PCB Conc'n ($\mu g/m^3$)[4]
10-26-04 to 10-29-04	24	GWP-1	PCB-01-24	EPA TO-4A	0.5	ND	1090.41	≤	0.00046
10-26-04 to 10-29-04	24	GWP-2	PCB-02-24	EPA TO-4A	0.5	ND	1090.28	≤	0.00046
10-26-04 to 10-29-04	24	GWP-3	PCB-03-24	EPA TO-4A	0.5	ND	1068.02	≤	0.00047
10-26-04 to 10-29-04	24	GWP-4	PCB-04-24	EPA TO-4A	0.5	ND	1082.18	≤	0.00046
10-29-04 to 11-1-04	25	GWP-1	PCB-01-25	EPA TO-4A	0.5	ND	1184.27	≤	0.00042
10-29-04 to 11-1-04	25	GWP-2	PCB-02-25	EPA TO-4A	0.5	ND	1182.30	≤	0.00042
10-29-04 to 11-1-04	25	GWP-3	PCB-03-25	EPA TO-4A	0.5	ND	1111.19	≤	0.00045
10-29-04 to 11-1-04	25	GWP-4	PCB-04-25	EPA TO-4A	0.5	ND	1127.67	≤	0.00044
10-29-04 to 11-1-04	25	N/A	Field Blank 10	EPA TO-4A	0.5	ND	N/A	≤	N/A

Notes:

1. The laboratory reports the results in terms of significant Aroclors. Included are Aroclors 1016, 1221, 1232, 1242, 1248, 1254 and 1260. This table reports total PCB Aroclors and calculates a total PCB ambient air concentration.

2. EPA Compendium Method TO-4A is for determination of pesticides and polychlorinated biphenyls in ambient air using high volume polyurethane foam (PUF) sampling followed by gas chromoatographic/multi-detector detection (GC/MD).

3. ND = "None Detected". Given the laboratory reporting limit is 0.5 ug/sample, the concentration is calculated based on this value and reported as less than this concentration.

4. As a frame of reference, the airborne concentrations observed here could be compared to the airborne concentrations observed during the previous 56/57 Demonstration Project in 1999. During that study, concentrations collected within the property boundaries of the remediation area ranged from 0.0013 to 0.0216 ug/m^3 during dredging. Baseline concentrations, obtained prior to this same dredging project ranged from 0.0003 to 0.0016 ug/m^3.

Attachment 2

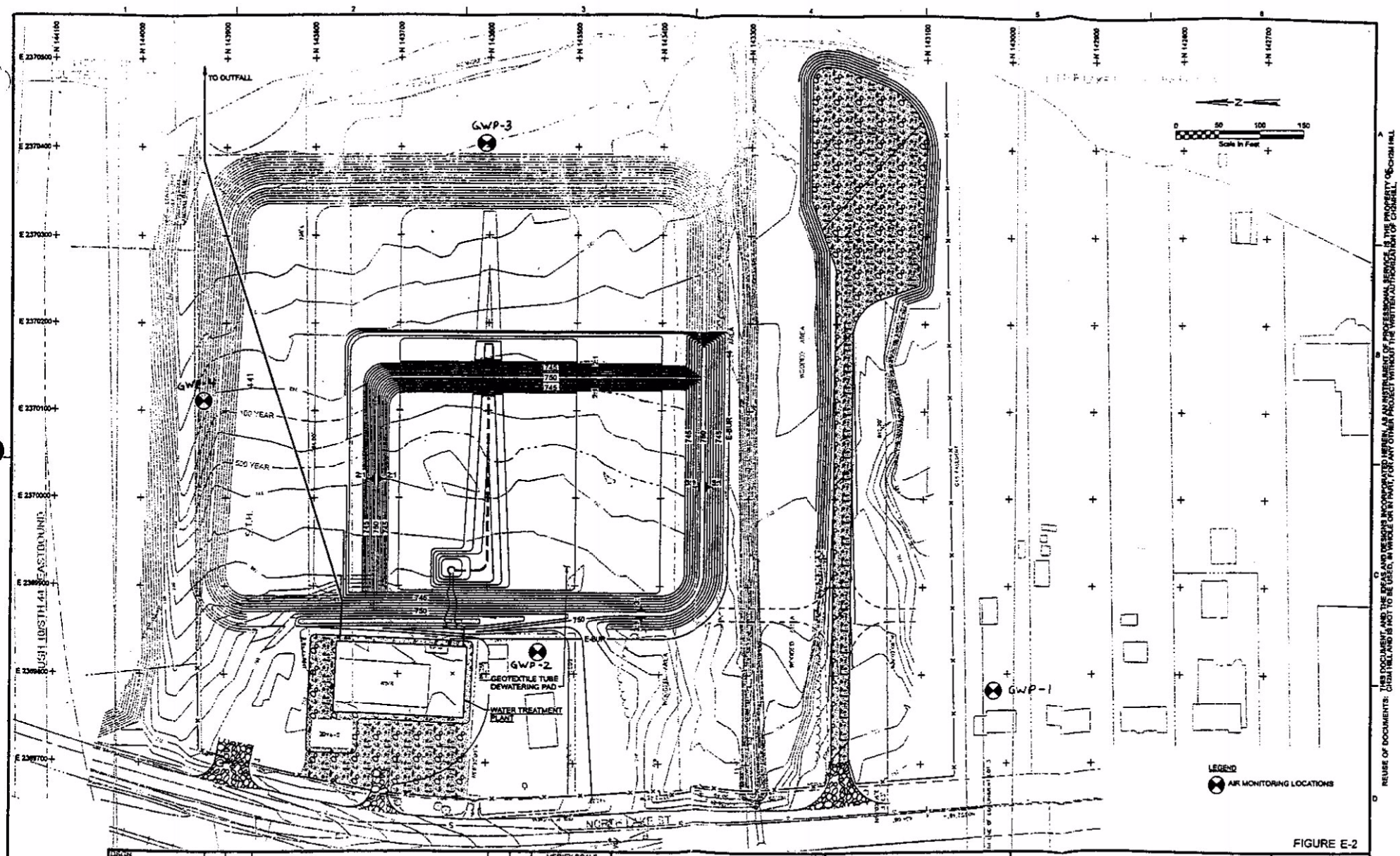


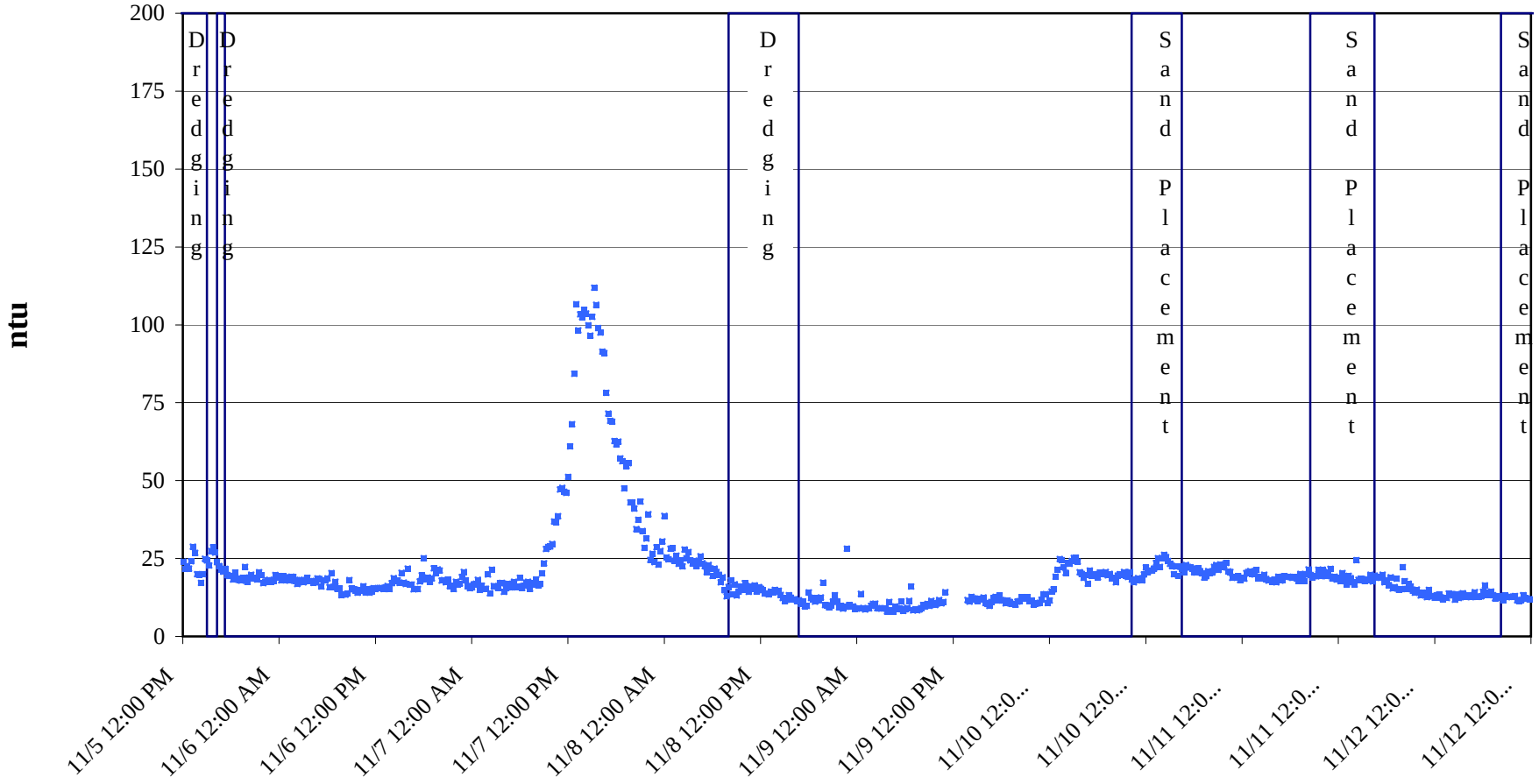
FIGURE E-2

DESIGN	C.M.LIETHEN				VERIFY SCALE	CH2MHILL	LOWER FOX RIVER (OU1) 2004 REMEDIAL ACTION TOWN OF MENASHA, WI G.W. PARTNERS, LLC	AIR MONITORING LOCATIONS	SHEET
DR	I.M.ZAEFKE				BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.				DWG C-1
CHK	D.J.PLOMB								DATE MAY 2004
APVD	S.D.LAVOLETTE	NO	DATE	REVISION	BY APVD				PROJ 315814.RA.01

FILENAME: tr5nc1416_183838.dgn PLOT DATE: 14-MAY-2004 PLOT TIME: 10:40:11

Attachment 3

Upstream Turbidity - Meter 912



Upstream Turbidity - Meter 912

11/5/2004 12:01	24	11/6/2004 12:01	15.2	11/7/2004 12:01	51.201	11/8/2004 12:01	15.3	11/9/2004 12:01		11/10/2004 12:01	22.101	11/11/2004 12:01	18.8
11/5/2004 12:16	21.701	11/6/2004 12:16	15.5	11/7/2004 12:16	61	11/8/2004 12:16	14.8	11/9/2004 12:16		11/10/2004 12:16	20.701	11/11/2004 12:16	17.701
11/5/2004 12:31	22.5	11/6/2004 12:31	15.601	11/7/2004 12:31	68.101	11/8/2004 12:31	13.8	11/9/2004 12:31		11/10/2004 12:31	21.201	11/11/2004 12:31	20.3
11/5/2004 12:46	21.8	11/6/2004 12:46	15.601	11/7/2004 12:46	84.301	11/8/2004 12:46	13.8	11/9/2004 12:46		11/10/2004 12:46	21.101	11/11/2004 12:46	18.4
11/5/2004 13:01	24.101	11/6/2004 13:01	15.2	11/7/2004 13:01	106.601	11/8/2004 13:01	13.5	11/9/2004 13:01		11/10/2004 13:01	21.8	11/11/2004 13:01	16.601
11/5/2004 13:16	28.8	11/6/2004 13:16	15.7	11/7/2004 13:16	98.201	11/8/2004 13:16	14.4	11/9/2004 13:16		11/10/2004 13:16	23.601	11/11/2004 13:16	19.4
11/5/2004 13:31	26.8	11/6/2004 13:31	16.201	11/7/2004 13:31	103.401	11/8/2004 13:31	14.2	11/9/2004 13:31		11/10/2004 13:31	25.101	11/11/2004 13:31	18.701
11/5/2004 13:46	20	11/6/2004 13:46	15.2	11/7/2004 13:46	102.501	11/8/2004 13:46	14.9	11/9/2004 13:46	11.7	11/10/2004 13:46	22.3	11/11/2004 13:46	17.4
11/5/2004 14:01	19.8	11/6/2004 14:01	17.101	11/7/2004 14:01	104.801	11/8/2004 14:01	14.3	11/9/2004 14:01	11.2	11/10/2004 14:01	25.201	11/11/2004 14:01	16.601
11/5/2004 14:16	17.201	11/6/2004 14:16	18.701	11/7/2004 14:16	103.601	11/8/2004 14:16	14.7	11/9/2004 14:16	12.7	11/10/2004 14:16	26.201	11/11/2004 14:16	24.5
11/5/2004 14:31	20	11/6/2004 14:31	17.701	11/7/2004 14:31	99.901	11/8/2004 14:31	13.3	11/9/2004 14:31	12.2	11/10/2004 14:31	25.5	11/11/2004 14:31	18.201
11/5/2004 14:46	24.9	11/6/2004 14:46	18	11/7/2004 14:46	96.501	11/8/2004 14:46	12.3	11/9/2004 14:46	11.9	11/10/2004 14:46	24.201	11/11/2004 14:46	18.5
11/5/2004 15:01	24.4	11/6/2004 15:01	17.201	11/7/2004 15:01	102.601	11/8/2004 15:01	11.3	11/9/2004 15:01	11.4	11/10/2004 15:01	23.3	11/11/2004 15:01	18.201
11/5/2004 15:16	22.8	11/6/2004 15:16	20.4	11/7/2004 15:16	111.901	11/8/2004 15:16	11.8	11/9/2004 15:16	12.101	11/10/2004 15:16	22.701	11/11/2004 15:16	17.8
11/5/2004 15:31	27.4	11/6/2004 15:31	17.3	11/7/2004 15:31	106.401	11/8/2004 15:31	13.2	11/9/2004 15:31	11.8	11/10/2004 15:31	20	11/11/2004 15:31	18.4
11/5/2004 15:46	28.601	11/6/2004 15:46	16.8	11/7/2004 15:46	99.001	11/8/2004 15:46	12.4	11/9/2004 15:46	12.5	11/10/2004 15:46	22.4	11/11/2004 15:46	18.201
11/5/2004 16:01	26.9	11/6/2004 16:01	21.8	11/7/2004 16:01	97.501	11/8/2004 16:01	11.9	11/9/2004 16:01	10.7	11/10/2004 16:01	19.5	11/11/2004 16:01	19.8
11/5/2004 16:16	23.8	11/6/2004 16:16	16.601	11/7/2004 16:16	91.401	11/8/2004 16:16	12	11/9/2004 16:16	10.4	11/10/2004 16:16	22.4	11/11/2004 16:16	17.601
11/5/2004 16:31	22.601	11/6/2004 16:31	16.601	11/7/2004 16:31	91.001	11/8/2004 16:31	11.4	11/9/2004 16:31	9.8	11/10/2004 16:31	21.601	11/11/2004 16:31	19.5
11/5/2004 16:46	21.4	11/6/2004 16:46	15.101	11/7/2004 16:46	78.201	11/8/2004 16:46	11.601	11/9/2004 16:46	11.101	11/10/2004 16:46	20.701	11/11/2004 16:46	18.9
11/5/2004 17:01	20.8	11/6/2004 17:01	15.2	11/7/2004 17:01	71.501	11/8/2004 17:01	10.5	11/9/2004 17:01	12.3	11/10/2004 17:01	22.9	11/11/2004 17:01	19.201
11/5/2004 17:16	21.701	11/6/2004 17:16	15.2	11/7/2004 17:16	69.201	11/8/2004 17:16	11.2	11/9/2004 17:16	12.7	11/10/2004 17:16	22.3	11/11/2004 17:16	18.8
11/5/2004 17:31	19.701	11/6/2004 17:31	17.601	11/7/2004 17:31	68.901	11/8/2004 17:31	9.7	11/9/2004 17:31	11.5	11/10/2004 17:31	22.101	11/11/2004 17:31	19.8
11/5/2004 17:46	19.4	11/6/2004 17:46	19.601	11/7/2004 17:46	62.701	11/8/2004 17:46	9.8	11/9/2004 17:46	13.101	11/10/2004 17:46	21.8	11/11/2004 17:46	17.4
11/5/2004 18:01	19.4	11/6/2004 18:01	25.101	11/7/2004 18:01	61.6	11/8/2004 18:01	14.101	11/9/2004 18:01	11.7	11/10/2004 18:01	20.701	11/11/2004 18:01	17.9
11/5/2004 18:16	18.3	11/6/2004 18:16	18.3	11/7/2004 18:16	62.5	11/8/2004 18:16	12.3	11/9/2004 18:16	11.5	11/10/2004 18:16	20.5	11/11/2004 18:16	16.5
11/5/2004 18:31	20.5	11/6/2004 18:31	18.9	11/7/2004 18:31	57.1	11/8/2004 18:31	11.9	11/9/2004 18:31	10.601	11/10/2004 18:31	21.9	11/11/2004 18:31	19
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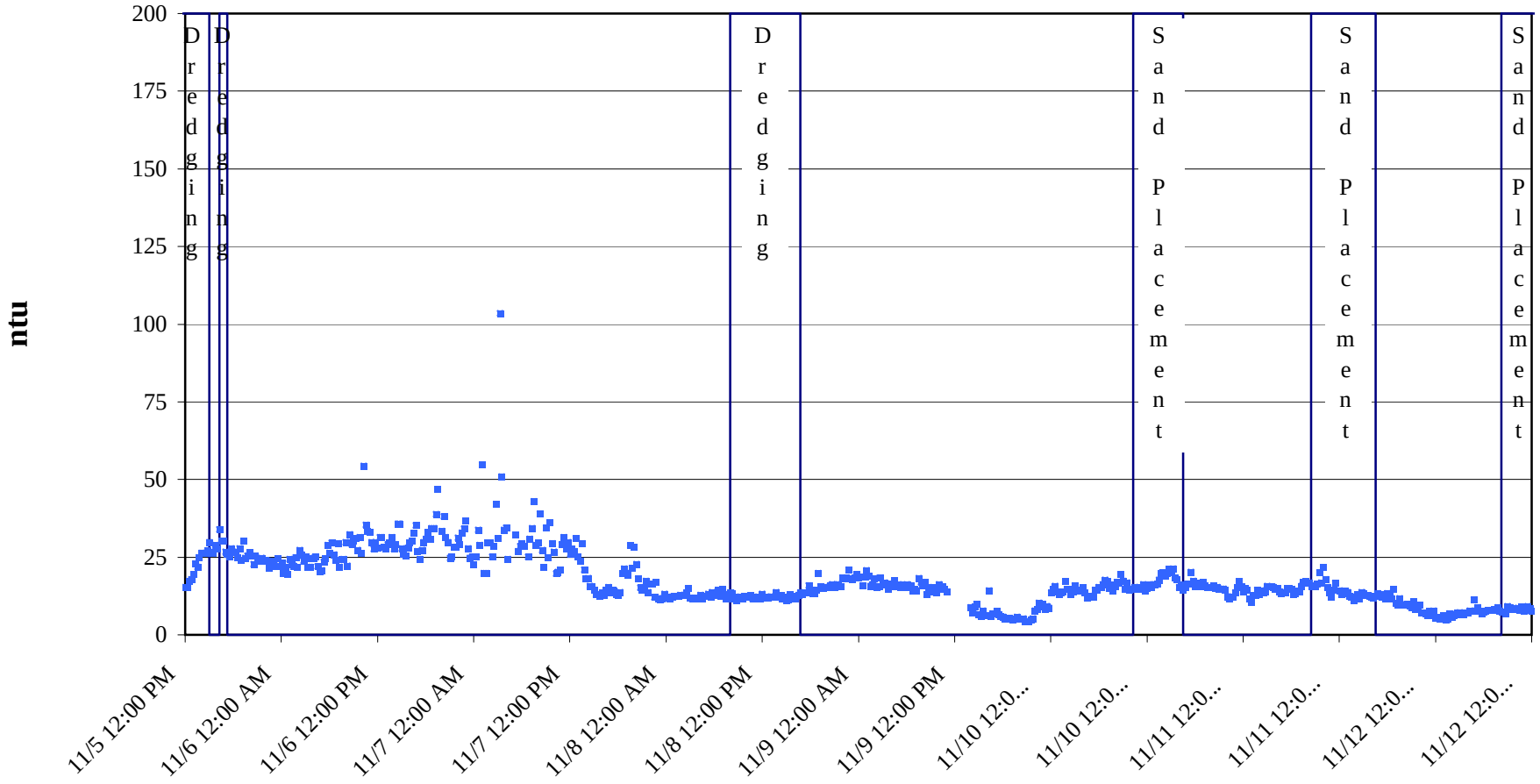
Downstream Turbidity - Meter 902



Downstream Turbidity - Meter 902

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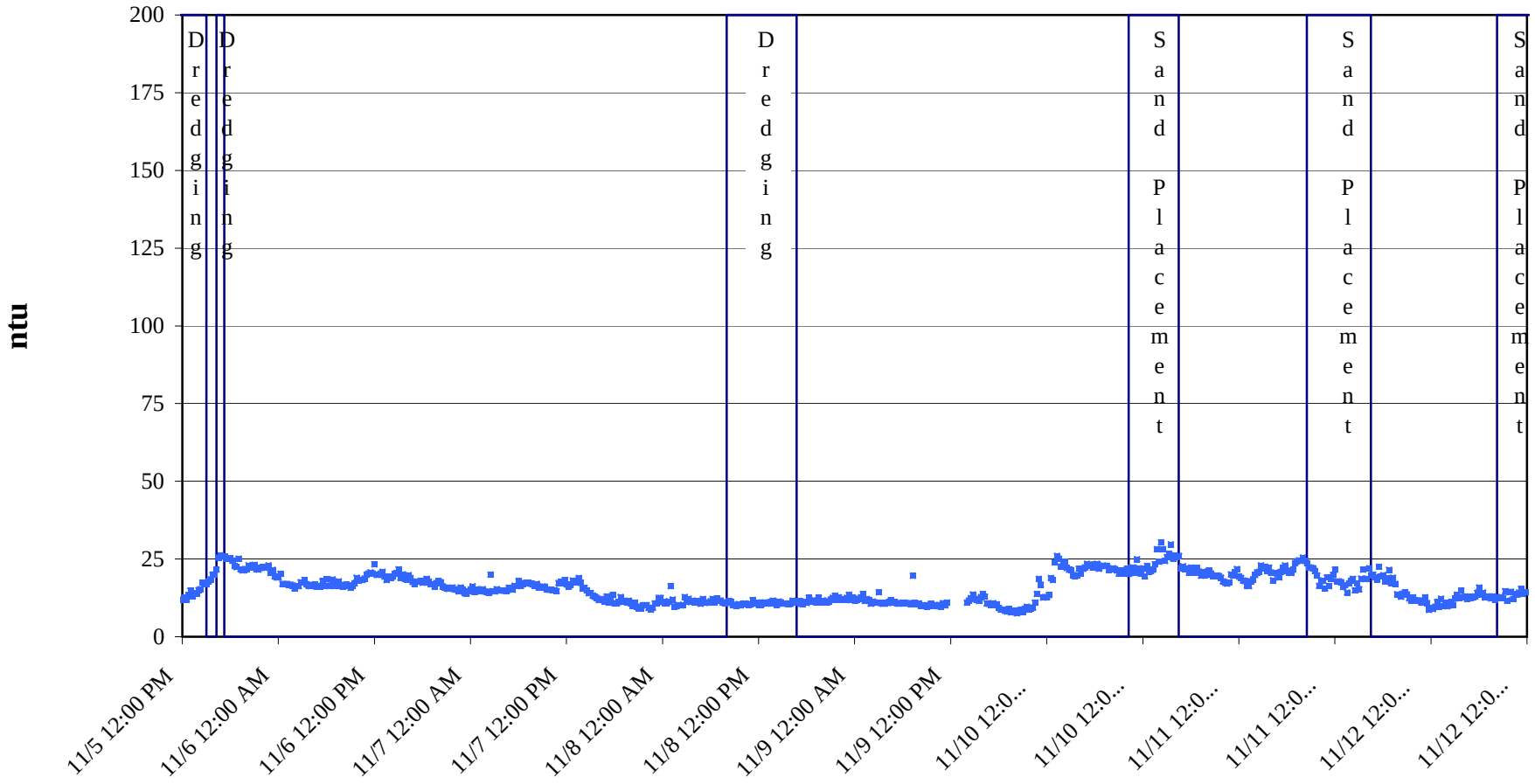
Far Downstream Turbidity - Meter 905



Far Downstream Turbidity - Meter 905

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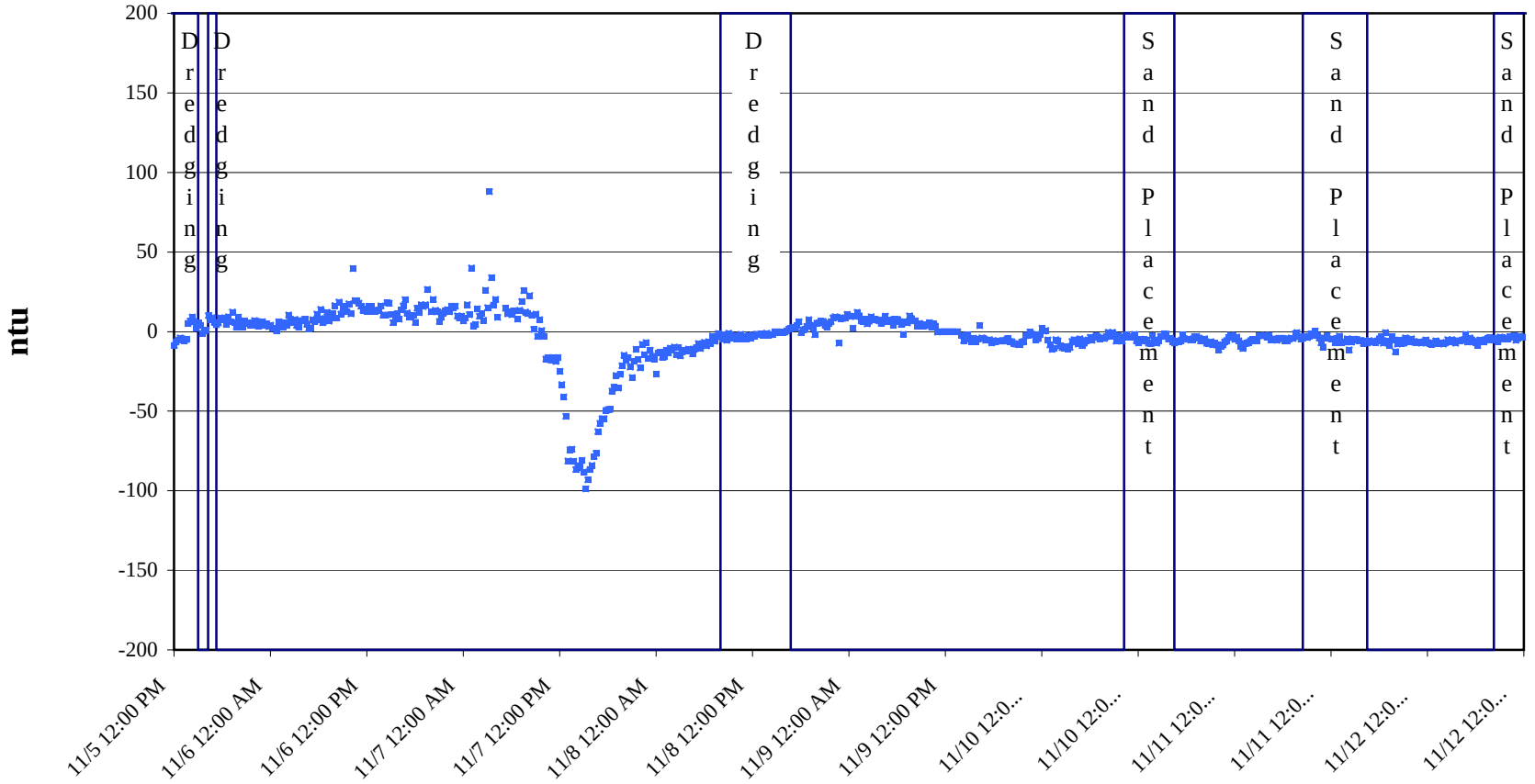
Turbidity
Downstream/Upstream Difference
(Downstream Minus Upstream)



Attachment 4

GW Partners
Lower Fox River - OU-1
04G007
TSS and Field Turbidity - Draft and Preliminary

Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
8/30/2004	13:47	19.8	19	25	6	912	Calm (0-5 mph)	1 RA 04 DEWT SW 1 - 912
8/30/2004	13:54	19.1	24	22	-2	902	Calm (0-5 mph)	1 RA 04 DEWT SW 2 - 902
8/30/2004	14:01	20.1	18	23	5	905	Calm (0-5 mph)	1 RA 04 DEWT SW 3 - 905
8/31/2004	19:32	12.0	13.5	15	1.5	912	Calm (0-5 mph)	1 RA 04 DEWT SW 4 - 912
8/31/2004	19:40	18.2	23	25	2	902	Calm (0-5 mph)	1 RA 04 DEWT SW 5 - 902
				24				1 RA 04 DEWT SW 5Dup - 902
8/31/2004	19:47	12.8	13.5	17	3.5	905	Calm (0-5 mph)	1 RA 04 DEWT SW 6 - 905
				<1.0				1 RA 04 DEWT SW 7RINSE - 905
9/1/2004	12:56	24.2	23	28	5	912	Calm (0-5 mph)	1 RA 04 DEWT SW 8 - 912
9/1/2004	13:08	51.1	39	36	-3	902	Calm (0-5 mph)	1 RA 04 DEWT SW 9 - 902
9/1/2004	13:15	22.8	21.6	25	3.4	905	Calm (0-5 mph)	1 RA 04 DEWT SW 10 - 905
9/2/2004	12:16	22.4	23	26	3	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 11 - 912
9/2/2004	12:31	34.4	35	41	6	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 12 - 902
9/2/2004	12:44	33.3	30	31	1	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 13 - 905
9/3/2004	11:55	21.1	18	20	2	912	Calm (0-10 mph)	1 RA 04 DEWT SW 14 - 912
9/3/2004	12:05	39.7	30	28	-2	902	Calm (0-10 mph)	1 RA 04 DEWT SW 15 - 902
				28				1 RA 04 DEWT SW 15Dup - 902
9/3/2004	12:13	16.6	18	20	2	905	Calm (0-10 mph)	1 RA 04 DEWT SW 16 - 905
				<1.0				1 RA 04 DEWT SW 16RINSE - 905
9/7/2004	7:22	20	32.6		NA	902	Calm (0-10 mph)	NA
9/7/2004	7:26	20.7	33		NA	905	Calm (0-10 mph)	NA
9/7/2004	7:51	15.5	28.5		NA	912	Calm (0-10 mph)	NA
9/7/2004	11:52	18.7		24	5.3	912	Calm (0-10 mph)	1 RA 04 DEWT SW 18 - 912
9/7/2004	12:07	25		29	4	902	Calm (0-10 mph)	1 RA 04 DEWT SW 19 - 902
9/7/2004	12:15	22.7		23	0.3	905	Calm (0-10 mph)	1 RA 04 DEWT SW 20 - 905
9/8/2004	11:39	51.3		58	6.7	912	Windy (15-20 mph)	1 RA 04 DEWT SW 21 - 912
9/8/2004	11:50	36		42	6	902	Windy (15-20 mph)	1 RA 04 DEWT SW 22 - 902
9/8/2004	11:56	39.9		48	8.1	905	Windy (15-20 mph)	1 RA 04 DEWT SW 23 - 905
9/9/2004	11:11	31.8	33	25	-8	912	Calm (0-5 mph)	1 RA 04 DEWT SW 24 - 912
9/9/2004	11:20	24	26	25	-1	902	Calm (0-5 mph)	1 RA 04 DEWT SW 25 - 902
9/9/2004	11:35	23.2	26	24	-2	905	Calm (0-5 mph)	1 RA 04 DEWT SW 26 - 905
9/10/2004	9:36	23.5	26	21	-5	912	Windy (10-20 mph)	1 RA 04 DEWT SW 27 - 912
9/10/2004	9:48	1100	35	22	-13	902	Windy (10-20 mph)	1 RA 04 DEWT SW 28 - 902
				23				1 RA 04 DEWT SW 28Dup - 902
9/10/2004	10:00	657	30	24	-6	905	Windy (10-20 mph)	1 RA 04 DEWT SW 29 - 905
				<1.0				1 RA 04 DEWT SW 30RINSE - 905
9/11/2004	9:43	23	30	21	-9	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 31 - 912
9/11/2004	9:53	21.7	32	24	-8	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 32 - 902
9/11/2004	10:01	44.1	33	27	-6	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 33 - 905
9/14/2004	10:43	18.8	20.5	23	2.5	912	Windy (10-20 mph)	1 RA 04 000A SW 34 - 912
9/14/2004	10:52	20	18.6	22	3.4	902	Windy (10-20 mph)	1 RA 04 000A SW 35 - 902
9/14/2004	11:01	16	16.8	21	4.2	905	Windy (10-20 mph)	1 RA 04 000A SW 36 - 905
9/15/2004	11:16	36.9	35.9	16	-19.9	912	Windy (15-25 mph)	1 RA 04 000A SW 37 - 912
9/15/2004	11:31	23.9	23	26	3	902	Windy (15-25 mph)	1 RA 04 000A SW 38 - 902
9/15/2004	11:45	24.9	25.5	26	0.5	905	Windy (15-25 mph)	1 RA 04 000A SW 39 - 905
9/16/2004	9:30	36	36	44	8	912	Breezy (5-15 mph)	1 RA 04 000A SW 40 - 912
9/16/2004	9:55	26	26	28	2	902	Breezy (5-15 mph)	1 RA 04 000A SW 41 - 902
				27				1 RA 04 000A SW 41Dup - 902
9/16/2004	10:03	34.5	34.5	34	-0.5	905	Breezy (5-15 mph)	1 RA 04 000A SW 42 - 905
				<1.0				1 RA 04 000A SW 43RINSE - 905
9/17/2004	10:32	18.2	36	15	-21	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 44 - 912
9/17/2004	10:58	17.6	17	16	-1	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 45 - 902
9/17/2004	11:08	15.3	17	14	-3	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 46 - 905
9/20/2004	12:57	39.2	36	45	9	912	Breezy (5-15 mph)	1 RA 04 000A SW 47 - 912
9/20/2004	12:31	32.4	37	35	-2	902	Breezy (5-15 mph)	1 RA 04 000A SW 48 - 902
				35				1 RA 04 000A SW 48Dup - 902
9/20/2004	12:22	31.7	36	36	0	905	Breezy (5-15 mph)	1 RA 04 000A SW 49 - 905
				1.2				1 RA 04 000A SW 50RINSE - 905
9/21/2004	10:08	39.4	38	40	2	905	Breezy (5-15 mph)	1 RA 04 000A SW 51 - 905
9/21/2004	10:21	35.4	42	38	-4	902	Breezy (5-15 mph)	1 RA 04 000A SW 52 - 902
9/21/2004	10:35	41.7	36	52	16	912	Breezy (5-15 mph)	1 RA 04 000A SW 53 - 912
9/22/2004	10:13	21.8	24	22	-2	905	Calm (0-5 mph)	1 RA 04 000A SW 54 - 905
9/22/2004	10:23	21.3	23	24	1	902	Calm (0-5 mph)	1 RA 04 000A SW 55 - 902
9/22/2004	10:38	18.5	36	28	-8	912	Calm (0-5 mph)	1 RA 04 000A SW 56 - 912
9/23/2004	11:11	15.1	19	16	-3	905	Breezy (5-15 mph)	1 RA 04 000A SW 57 - 905
9/23/2004	11:23	31.7	20	19	-1	902	Breezy (5-15 mph)	1 RA 04 000A SW 58 - 902
9/23/2004	12:17	26.6	27	29	2	912	Breezy (5-15 mph)	1 RA 04 000A SW 59 - 912
9/24/2004	9:35	18.2	19.5	22	2.5	905	Calm (0-5 mph)	1 RA 04 000A SW 60 - 905
9/24/2004	9:44	34.8	27.8	30	2.2	902	Calm (0-5 mph)	1 RA 04 000A SW 61 - 902
				30				1 RA 04 000A SW 61Dup - 902
9/24/2004	10:02	39.1	47	72	25	912	Calm (0-5 mph)	1 RA 04 000A SW 62 - 912
				1.3				1 RA 04 000A SW 63RINSE - 912
9/27/2004	11:10	11.6	12.5	14	1.5	905	Calm (0-5 mph)	1 RA 04 000A SW 64 - 905
9/27/2004	11:21	53.1	16.5	16	-0.5	902	Calm (0-5 mph)	1 RA 04 000A SW 65 - 902

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Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
9/27/2004	11:36	14.3	20	22	2	912	Calm (0-5 mph)	1 RA 04 000A SW 66 - 912
9/27/2004	11:46	11.6			NA	902	Calm (0-5 mph)	NA
9/27/2004	13:01	17.2			NA	902	Calm (0-5 mph)	NA
9/28/2004	11:31	33.9	38	32	-6	905	Windy (15-20 mph)	1 RA 04 000A SW 67 - 905
9/28/2004	11:38	38.7	41	33	-8	902	Windy (15-20 mph)	1 RA 04 000A SW 68 - 902
				33				1 RA 04 000A SW 68Dup - 902
9/28/2004	11:48	33.4	34	44	10	912	Windy (15-20 mph)	1 RA 04 000A SW 69 - 912
				1.2				1 RA 04 000A SW 70RINSE - 912
9/29/2004	11:38	17.3	20.5	20	-0.5	905	Calm (0-5 mph)	1 RA 04 000A SW 71 - 905
9/29/2004	11:46	19.3	27.8	23	-4.8	902	Calm (0-5 mph)	1 RA 04 000A SW 72 - 902
9/29/2004	12:22	14.2	14.5	33	18.5	912	Calm (0-5 mph)	1 RA 04 000A SW 73 - 912
9/29/2004	12:31	14.3			NA	902	Calm (0-5 mph)	NA
9/30/2004	10:20	24.6		24	-0.6	905	Calm (0-5 mph)	1 RA 04 000A SW 74 - 905
9/30/2004	10:30	18.6		22	3.4	902	Calm (0-5 mph)	1 RA 04 000A SW 75 - 902
9/30/2004	10:50	11.3		19	7.7	912	Calm (0-5 mph)	1 RA 04 000A SW 76 - 912
10/1/2004	10:34	24.9	27	22	-5	905	Breezy (10-15 mph)	1 RA 04 000A SW 77 - 905
10/1/2004	10:45	31.8	38	35	-3	902	Breezy (10-15 mph)	1 RA 04 000A SW 78 - 902
				34				1 RA 04 000A SW 78Dup - 902
10/1/2004	11:03	34	34	34	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 79 - 912
				<1.0				1 RA 04 000A SW 80RINSE - 912
10/4/2004	10:21	31.2	21.5	27	5.5	905	Breezy (10-15 mph)	1 RA 04 000A SW 81 - 905
10/4/2004	10:27	27.5	22.2	28	5.8	902	Breezy (10-15 mph)	1 RA 04 000A SW 82 - 902
10/4/2004	10:58	32.7	34	34	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 83 - 912
10/6/2004	9:09	24.5	22	26	4	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 84 - 905
10/6/2004	9:24	25.5	22	24	2	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 85 - 902
				22				1 RA 04 000A SW 85Dup - 902
10/6/2004	9:49	29	26	31	5	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 86 - 912
				<2.0				1 RA 04 000A SW 87RINSE - 912
10/7/2004	9:55	24.6	24	22	-2	905	Calm (0-7 mph)	1 RA 04 000A SW 88 - 905
10/7/2004	10:11	19.9	23	23	0	902	Calm (0-7 mph)	1 RA 04 000A SW 89 - 902
10/7/2004	10:34	72.9	70	90	20	912	Calm (0-7 mph)	1 RA 04 000A SW 90 - 912
10/8/2004	11:24	75.5	85	55	-30	905	Calm (0-8 mph)	1 RA 04 000A SW 91 - 905
10/8/2004	11:38	66.6	66	54	-12	902	Calm (0-8 mph)	1 RA 04 000A SW 92 - 902
10/8/2004	11:54	83.1	91	150	59	912	Calm (0-8 mph)	1 RA 04 000A SW 93 - 912
10/11/2004	10:36	45.9	46	29	-17	905	Calm (0-5 mph)	1 RA 04 000A SW 94 - 905
10/11/2004	10:58	40	43	32	-11	902	Calm (0-5 mph)	1 RA 04 000A SW 95 - 902
10/11/2004	11:18	72.1	90	85	-5	912	Calm (0-5 mph)	1 RA 04 000A SW 96 - 912
10/12/2004	12:27	28.3	27	28	1	905	Very Calm (0-3 mph)	1 RA 04 000A SW 97 - 905
10/12/2004	12:35	24.1	30	86	56	902	Very Calm (0-3 mph)	1 RA 04 000A SW 98 - 902
				62				1 RA 04 000A SW 98Dup - 902
10/12/2004	12:49	95.4	90	130	40	912	Very Calm (0-3 mph)	1 RA 04 000A SW 99 - 912
				<2.0				1 RA 04 000A SW 100RINSE - 912
10/13/2004	10:01	13.4	23	17	-6	905	Very Calm (0-3 mph)	1 RA 04 000A SW 101 - 905
10/13/2004	10:16	31.3	38	17	-21	902	Very Calm (0-3 mph)	1 RA 04 000A SW 102 - 902
10/13/2004	10:31	62.4	81	55	-26	912	Very Calm (0-3 mph)	1 RA 04 000A SW 103 - 912
10/14/2004	8:57	50.6	46	38	-8	905	Breezy (10-15 mph)	1 RA 04 000A SW 104 - 905
10/14/2004	9:05	52.3	45	42	-3	902	Breezy (10-15 mph)	1 RA 04 000A SW 105 - 902
10/14/2004	9:23	177.1	160	160	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 106 - 912
10/18/2004	9:35	16.9	17	17	0	905	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 107 - 905
10/18/2004	9:45	15.2	17.8	18	0.2	902	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 108 - 902
10/18/2004	9:54	17.4	21.5	16	-5.5	912	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 109 - 912
10/19/2004	9:49	25.1	21	24	3	905	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 110 - 905
10/19/2004	9:29	15.3	16.5	17	0.5	902	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 111 - 902
				17				1 RA 04 POG2 SW 111Dup - 902
10/19/2004	9:21	17.7	16	13	-3	912	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 112 - 912
				<2.0				1 RA 04 POG2 SW 113RINSE - 912
10/20/2004	9:35	13.4	13.2	14	0.8	905	Very Calm (0-3 mph)	1 RA 04 POG2 SW 114 - 905
10/20/2004	9:46	15	14.5	15	0.5	902	Very Calm (0-3 mph)	1 RA 04 POG2 SW 115 - 902
10/20/2004	9:55	17.3	17.3	17	-0.3	912	Very Calm (0-3 mph)	1 RA 04 POG2 SW 116 - 912
10/21/2004	11:47	10.5	13	13	0	905	Calm (0-7 mph)	1 RA 04 POG2 SW 117 - 905
10/21/2004	12:01	13.6	13.3	14	0.7	902	Calm (0-7 mph)	1 RA 04 POG2 SW 118 - 902
10/21/2004	12:16	18.5	15.5	18	2.5	912	Calm (0-7 mph)	1 RA 04 POG2 SW 119 - 912
10/22/2004	9:54	25.2	24.8	27	2.2	905	Breezy (10-15 mph)	1 RA 04 POG2 SW 120 - 905
10/22/2004	10:00	20.1	21.9	24	3.9	902	Breezy (10-15 mph)	1 RA 04 POG2 SW 121 - 902
				24				1 RA 04 POG2 SW 121Dup - 902
10/22/2004	10:14	18.1	21.5	19	-2.5	912	Breezy (10-15 mph)	1 RA 04 POG2 SW 122 - 912
				<2.0				1 RA 04 POG2 SW 123RINSE - 912
10/25/2004	9:16	25	26	30	4	905	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 124 - 905
10/25/2004	9:24	19.2	21	22	1	902	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 125 - 902
10/25/2004	9:37	30.6	32.2	32	-0.2	912	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 126 - 912
10/26/2004	10:31	19.2	19.2	27	7.8	905	Windy (10-20 mph)	1 RA 04 POG2 SW 127 - 905
10/26/2004	10:40	30.2	29.9	35	5.1	902	Windy (10-20 mph)	1 RA 04 POG2 SW 128 - 902
				34				1 RA 04 POG2 SW 128Dup - 902
10/26/2004	10:50	25.8	26.9	29	2.1	912	Windy (10-20 mph)	1 RA 04 POG2 SW 129 - 912

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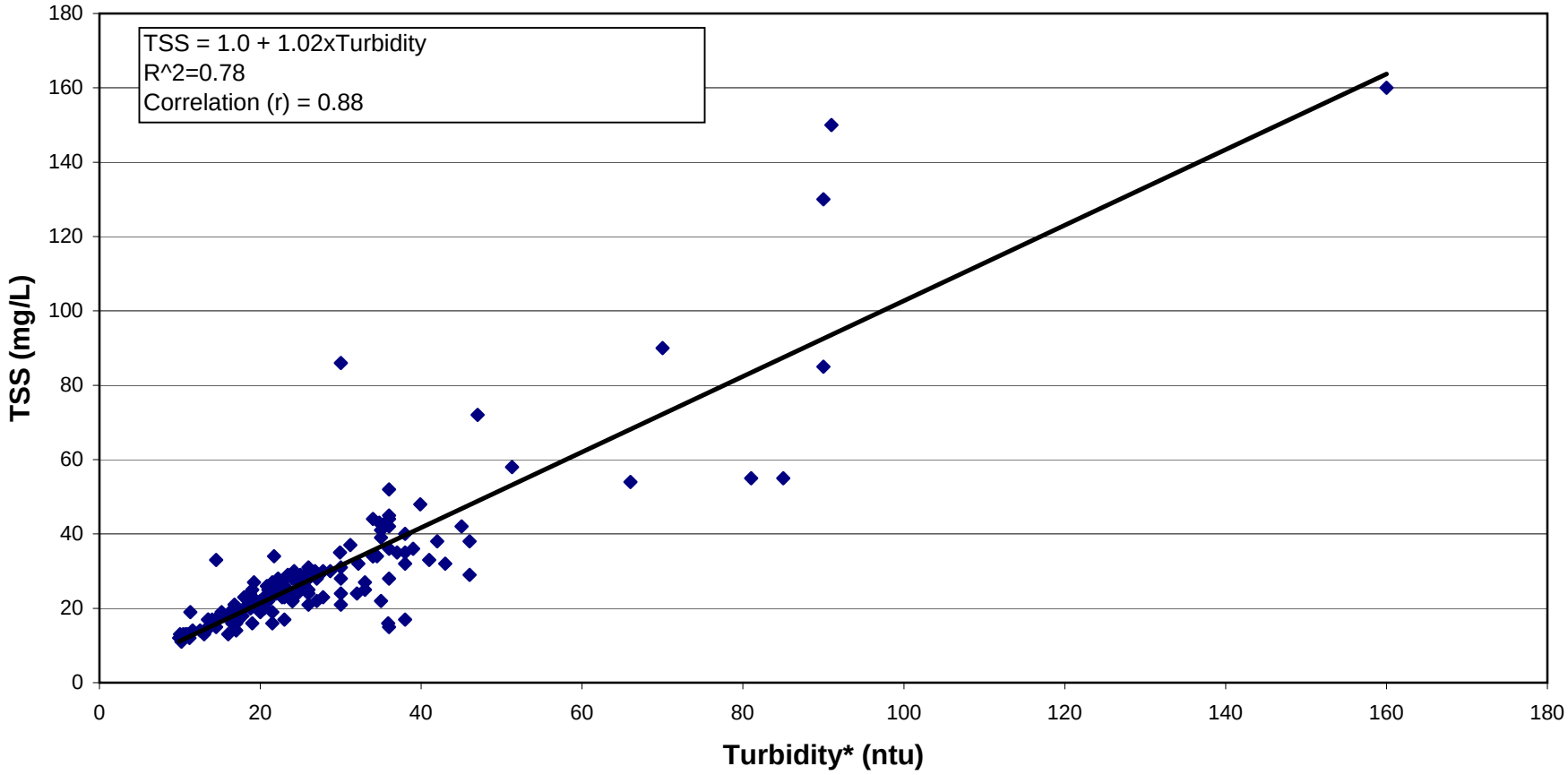
Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
				<1.0				1 RA 04 POG2 SW 130RINSE - 912
10/27/2004	8:40	17.7	18.8	20	1.2	905	Windy (10-20 mph)	1 RA 04 POG2 SW 131 - 905
10/27/2004	8:52	25.2	24	28	4	902	Windy (10-20 mph)	1 RA 04 POG2 SW 132 - 902
10/27/2004	9:03	29.8	28.7	30	1.3	912	Windy (10-20 mph)	1 RA 04 POG2 SW 133 - 912
10/28/2004	9:01	14.4	14	17	3	905	Calm (0-10 mph)	1 RA 04 POG2 SW 134 - 905
10/28/2004	9:07	15.1	14.4	17	2.6	902	Calm (0-10 mph)	1 RA 04 POG2 SW 135 - 902
10/28/2004	9:21	19.8	17.5	18	0.5	912	Calm (0-10 mph)	1 RA 04 POG2 SW 136 - 912
10/29/2004	10:56	36.4	34.8	43	8.2	905	Calm (0-5 mph)	1 RA 04 POG2 SW 137 - 905
10/29/2004	11:03	33.2	31.2	37	5.8	902	Calm (0-5 mph)	1 RA 04 POG2 SW 138 - 902
				34				1 RA 04 POG2 SW 138Dup - 902
10/29/2004	11:16	23.6	24.4	24	-0.4	912	Calm (0-5 mph)	1 RA 04 POG2 SW 139 - 912
				<1.0				1 RA 04 POG2 SW 140RINSE - 912
11/1/2004	11:01	19.9	21.7	25	3.3	905	Calm (0-5 mph)	1 RA 04 POG2 SW 141 - 905
11/1/2004	11:08	23.9	24.6	24	-0.6	902	Calm (0-5 mph)	1 RA 04 POG2 SW 142 - 902
11/1/2004	11:18	26.5	26.8	30	3.2	912	Calm (0-5 mph)	1 RA 04 POG2 SW 143 - 912
11/2/2004	8:41	19.3	17	20	3	905	Breezy (5-15 mph)	1 RA 04 POG2 SW 144 - 905
11/2/2004	8:49	18.3	16.2	19	2.8	902	Breezy (5-15 mph)	1 RA 04 POG2 SW 145 - 902
11/2/2004	8:59	34.4	35	39	4	912	Breezy (5-15 mph)	1 RA 04 POG2 SW 146 - 912
11/3/2004	9:04	8.5	11.2	12	0.8	905	Calm (0-5 mph)	1 RA 04 POG2 SW 147 - 905
11/3/2004	9:24	11.9	10.2	11	0.8	902	Calm (0-5 mph)	1 RA 04 POG2 SW 148 - 902
				11				1 RA 04 POG2 SW 148Dup - 902
11/3/2004	9:31	11.7	13.5	17	3.5	912	Calm (0-5 mph)	1 RA 04 POG2 SW 149 - 912
	9:33	11.7	12.6	<1.0		912		1 RA 04 POG2 SW 150RINSE - 912
11/4/2004	11:10	24	24.8	28	3.2	905	Mild Breeze (5-10 mph) with Gusts	1 RA 04 POG2 SW 151 - 905
11/4/2004	11:16	24.8	20.8	26	5.2	902	Mild Breeze (5-10 mph) with Gusts	1 RA 04 POG2 SW 152 - 902
11/4/2004	11:23	23.8	21.7	34	12.3	912	Mild Breeze (5-10 mph) with Gusts	1 RA 04 POG2 SW 153 - 912
11/5/2004	10:11	10.2	10.5	12	1.5	905	Breezy (5-15 mph)	1 RA 04 POG2 SW 154 - 905
11/5/2004	10:18	12.9	11.6	14	2.4	902	Breezy (5-15 mph)	1 RA 04 POG2 SW 155 - 902
11/5/2004	10:23	19.6	21	25	4	912	Breezy (5-15 mph)	1 RA 04 POG2 SW 156 - 912
11/8/2004	9:28	10.5	10.4	13	2.6	905	Calm (0-10 mph)	1 RA 04 POG2 SW 157 - 905
11/8/2004	9:38	11.6	10.9	13	2.1	902	Calm (0-10 mph)	1 RA 04 POG2 SW 158 - 902
11/8/2004	9:46	15	15.2	19	3.8	912	Calm (0-10 mph)	1 RA 04 POG2 SW 159 - 912
11/9/2004	9:23	9.9	10	13	3	905	Breezy (10-15 mph)	1 RA 04 POG2 SW 160 - 905
11/9/2004	9:29	10.7	9.9	12	2.1	912	Breezy (10-15 mph)	1 RA 04 POG2 SW 163 - 912
				<0.25				1 RA 04 POG2 SW 164RINSE - 912
11/9/2004	9:39	13.8	10.7	13	2.3	902	Breezy (10-15 mph)	1 RA 04 POG2 SW 161 - 902
				13				1 RA 04 POG2 SW 162Dup - 902
11/10/2004	9:06	20.3	24.2	30	5.8	905	Windy (15-20 mph)	1 RA 04 SP SW 164 - 905
11/10/2004	9:11	14.7	23.4	29	5.6	902	Windy (15-20 mph)	1 RA 04 SP SW 165 - 902
11/10/2004	9:17	20.7	21.1	24	2.9	912	Windy (15-20 mph)	1 RA 04 SP SW 166 - 912
11/11/2004	10:45	15.6	NA			905	Breezy (5-15 mph)	1 RA 04 SP SW 167 - 905
11/11/2004	10:50	13.6	NA			902	Breezy (5-15 mph)	1 RA 04 SP SW 168 - 902
11/11/2004	10:55	21.7	NA			912	Breezy (5-15 mph)	1 RA 04 SP SW 169 - 912
11/12/2004	11:25	13.8	17.2			905	Calm (0-5 mph)	1 RA 04 SP SW 170 - 905
11/12/2004	11:33	9.3	16.2			902	Calm (0-5 mph)	1 RA 04 SP SW 171 - 902
								1 RA 04 SP SW 171Dup - 902
11/12/2004	11:42	12	13.5			912	Calm (0-5 mph)	1 RA 04 SP SW 172 - 912
								1 RA 04 SP SW 173RINSE - 912
11/15/2004	11:25	13.9	14.7			905	Calm (0-10 mph)	1 RA 04 SP SW 174 - 905
11/15/2004	11:30	11.2	18.9			902	Calm (0-10 mph)	1 RA 04 SP SW 175 - 902
11/15/2004	11:37	14	17.2			912	Calm (0-10 mph)	1 RA 04 SP SW 176 - 912

[1] Sampling time approximate - readings collected on regular 15 minute intervals.

[2] Hand-held turbidity used in difference if available.

Data presented are Draft and Preliminary. These data have not undergone QA procedures and should not be viewed as final.

TSS/Turbidity Correlation
Data presented are Draft and Preliminary



Note: Includes data collected 8/30/04 - 11/10/04

*Data are hand held turbidity readings when available, otherwise telemetric reading sampled closest in time

Attachment 5

GW Partners
Lower Fox River - OU-1
04G007
Field Turbidity

Date	Time	Turbidity using Hand-held Meter (NTU)	Telemetric Turbidity Reading (NTU)	Difference between Telemetric and Hand-held	Sonde Location	Comments
9/15/2004	12:01	54	NA	NA	200' downstream of hydraulic dredge on north end of Deposit A	Windy (15-25 mph)
9/16/2004	9:05	38.5	NA	NA	Middle of Lake - east of DEWT	Breezy (5-15 mph)
9/16/2004	9:30	36	35.7	0.3	912	Breezy (5-15 mph)
9/16/2004	9:50	35	NA	NA	150-200' downstream of hydraulic dredge on north end of Deposit A	Breezy (5-15 mph)
9/16/2004	9:55	26	24.7	1.3	902	Breezy (5-15 mph)
9/16/2004	10:03	34.5	31.6	2.9	905	Breezy (5-15 mph)
9/17/2004	10:17	29	NA	NA	Middle of Lake - east of DEWT	Mild Breeze (5-10 mph)
9/17/2004	10:32	16	18.2	-2.2	912	Mild Breeze (5-10 mph)
9/17/2004	10:50	26	NA	NA	100-150' downstream of hydraulic dredge on north end of Deposit A	Mild Breeze (5-10 mph)
9/17/2004	10:58	17	17.6	-0.6	902	Mild Breeze (5-10 mph)
9/17/2004	11:08	17	15.3	1.7	905	Mild Breeze (5-10 mph)
9/20/2004	12:22	36	31.7	4.3	905	Breezy (5-15 mph)
9/20/2004	12:31	37	32.4	4.6	902	Breezy (5-15 mph)
9/20/2004	12:57	40	39.2	0.8	912	Breezy (5-15 mph)
9/21/2004	10:08	38	39.4	-1.4	905	Breezy (5-15 mph)
9/21/2004	10:21	42	35.4	6.6	902	Breezy (5-15 mph)
9/21/2004	10:30	59	NA	NA	150' downstream of hydraulic dredge - Deposit A	Breezy (5-15 mph)
9/21/2004	10:35	51	41.7	9.3	912	Breezy (5-15 mph)
9/22/2004	10:13	24	21.8	2.2	905	Calm (0-5 mph)
9/22/2004	10:23	23	21.3	1.7	902	Calm (0-5 mph)
9/22/2004	10:35	31.7	NA	NA	100-150' downstream of hydraulic dredge - Deposit A	Calm (0-5 mph)
9/22/2004	10:38	26	18.5	7.5	912	Calm (0-5 mph)
9/22/2004	11:08	39	NA	NA	Middle of lake - east of marine staging area	Calm (0-5 mph)
9/23/2004	11:11	19	15.1	3.9	905	Breezy (5-15 mph)
9/23/2004	11:23	20	31.7	-11.7	902	Breezy (5-15 mph)
9/23/2004	12:12	38	NA	NA	100' downstream of hydraulic dredge - Deposit A	Breezy (5-15 mph)
9/23/2004	12:17	27	26.6	0.4	912	Breezy (5-15 mph)
9/24/2004	9:35	19.5	18.2	1.3	905	Calm (0-5 mph)
9/24/2004	9:44	27.8	34.8	-7	902	Calm (0-5 mph)
9/24/2004	9:52	72	NA	NA	100' downstream of hydraulic dredge - Deposit A	Calm (0-5 mph)
9/24/2004	10:02	47	39.1	7.9	912	Calm (0-5 mph)
9/27/2004	11:10	12.5	11.6	0.9	905	Calm (0-5 mph)
9/27/2004	11:21	16.5	53.1	-36.6	902	Calm (0-5 mph), Telemetric reading unrealistic - optical brush missing
9/27/2004	11:28	32	NA	NA	75-100' downstream of hydraulic dredge - Deposit A	Calm (0-5 mph)
9/27/2004	11:36	20	14.3	5.7	912	Calm (0-5 mph)
9/27/2004	11:46	14	11.6	2.4	902	Calm (0-5 mph)
9/27/2004	13:01	19.5	17.2	2.3	902	Calm (0-5 mph)
9/28/2004	11:31	38	33.9	4.1	905	Windy (15-20 mph)
9/28/2004	11:38	41	38.7	2.3	902	Windy (15-20 mph), Telemetric time used: 12:01 - unrealistic readings at 11:31 and 11:46
9/28/2004	11:48	34	33.4	0.6	912	Windy (15-20 mph)
9/28/2004	11:55	90	NA	NA	25-50' west of hydraulic dredge - Deposit A	Windy (15-20 mph)
9/29/2004	11:38	20.5	17.3	3.2	905	Calm (0-5 mph)
9/29/2004	11:46	27.8	19.3	8.5	902	Calm (0-5 mph), Telemetric time used: 11:31 - unrealistic reading at 11:16 (1112.2 NTU)

9/29/2004	12:05	31	NA	NA	75-100' downstream of hydraulic dredge - Deposit A	Calm (0-5 mph)
9/29/2004	12:22	14.5	14.2	0.3	912	Calm (0-5 mph)
9/29/2004	12:31	15.5	14.3	1.2	902	Calm (0-5 mph)
10/1/2004	10:34	27	24.9	2.1	905	Breezy (10-15 mph)
10/1/2004	10:45	38	31.8	6.2	902	Breezy (10-15 mph)
10/1/2004	10:58	38	NA	NA	75-100' downstream of hydraulic dredge - Deposit A	Breezy (10-15 mph)
10/1/2004	11:03	34	34.6	-0.6	912	Breezy (10-15 mph)
10/4/2004	10:21	21.5	31.2	-9.7	905	Breezy (10-15 mph)
10/4/2004	10:27	22.2	27.5	-5.3	902	Breezy (10-15 mph)
10/4/2004	10:58	34	32.7	1.3	912	Breezy (10-15 mph), Telemetric time used: 10:16 - unrealistic reading at 11:01 (105.6 NTU)
10/6/2004	9:09	22	24.5	-2.5	905	Mild Breeze (5-10 mph)
10/6/2004	9:24	22	25.5	-3.5	902	Mild Breeze (5-10 mph)
10/6/2004	9:30	36	NA	NA	75-100' downstream of hydraulic dredge - Deposit A	Mild Breeze (5-10 mph)
10/6/2004	9:49	26	29	-3	912	Mild Breeze (5-10 mph)
10/7/2004	9:55	24	24.6	-0.6	905	Calm (0-7 mph)
10/7/2004	10:11	23	19.9	3.1	902	Calm (0-7 mph)
10/7/2004	10:34	70	72.9	-2.9	912	Calm (0-7 mph), Telemetric time used: 10:46 - more realistic than at 11:31 (101.9 NTU)
10/7/2004	10:36	61	NA	NA	75' downstream of hydraulic dredge - Deposit A	Calm (0-7 mph)
10/8/2004	11:24	85	75.5	9.5	905	Calm (0-8 mph), Telemetric time used: 11:46 - more realistic than at 11:31 (58.7 NTU)
10/8/2004	11:38	66	66.6	-0.6	902	Calm (0-8 mph)
10/8/2004	11:54	91	83.1	7.9	912	Calm (0-8 mph)
10/11/2004	10:36	46	45.9	0.1	905	Calm (0-5 mph)
10/11/2004	10:58	43	40	3	902	Calm (0-5 mph), Telemetric time used: 11:16 - unrealistic reading at 11:01 (1080.4 NTU)
10/11/2004	11:18	90	72.1	17.9	912	Calm (0-5 mph)
10/11/2004	11:27	56	NA	NA	50-75' downstream of hydraulic dredge - Deposit A	Calm (0-5 mph)
10/12/2004	12:27	27	28.3	-1.3	905	Very Calm (0-3 mph)
10/12/2004	12:35	30	24.1	5.9	902	Very Calm (0-3 mph)
10/12/2004	12:42	39	NA	NA	50-75' downstream of hydraulic dredge - Deposit A	Very Calm (0-3 mph)
10/12/2004	12:49	90	95.4	-5.4	912	Very Calm (0-3 mph), Telemetric time used: 13:16 - more realistic than at 12:31 (79.7 NTU)
10/13/2004	10:01	23	13.4	9.6	905	Very Calm (0-3 mph)
10/13/2004	10:16	38	31.3	6.7	902	Very Calm (0-3 mph)
10/13/2004	10:25	32	NA	NA	~50' downstream of hydraulic dredge - Deposit A	Very Calm (0-3 mph)
10/13/2004	10:31	81	62.4	18.6	912	Very Calm (0-3 mph)
10/14/2004	8:57	46	50.6	-4.6	905	Breezy (10-15 mph)
10/14/2004	9:05	45	52.3	-7.3	902	Breezy (10-15 mph), Telemetric time used: 10:01 - more realistic than at 9:16 (71.1 NTU)
10/14/2004	9:15	60	NA	NA	25-50' upstream of hydraulic dredge - Deposit A	Breezy (10-15 mph)
10/14/2004	9:23	160	177.1	-17.1	912	Breezy (10-15 mph)
10/14/2004	9:30	68	NA	NA	25-50' upstream of hydraulic dredge - Deposit A	Breezy (10-15 mph)
10/14/2004	9:32	120	NA	NA	25-50' downstream of hydraulic dredge - Deposit A	Breezy (10-15 mph)
10/14/2004	9:36	131	NA	NA	~20' W-SW of hydraulic dredge - Deposit A	Breezy (10-15 mph)
10/18/2004	9:35	17	16.9	0.1	905	Mild Breeze (5-10 mph)
10/18/2004	9:45	17.8	15.2	2.6	902	Mild Breeze (5-10 mph)
10/18/2004	9:54	21.5	17.4	4.1	912	Mild Breeze (5-10 mph)
10/19/2004	9:49	21	25.1	-4.1	905	Mild Breeze (5-10 mph)
10/19/2004	9:29	16.5	15.3	1.2	902	Mild Breeze (5-10 mph)
10/19/2004	9:21	16	17.7	-1.7	912	Mild Breeze (5-10 mph)
10/20/2004	9:35	13.2	13.4	-0.2	905	Very Calm (0-3 mph)
10/20/2004	9:46	14.5	15	-0.5	902	Very Calm (0-3 mph)
10/20/2004	9:55	17.3	17.3	0	912	Very Calm (0-3 mph)

10/21/2004	11:47	13	10.5	2.5	905	Calm (0-7 mph)
10/21/2004	12:01	13.3	13.6	-0.3	902	Calm (0-7 mph)
10/21/2004	12:16	15.5	18.5	-3	912	Calm (0-7 mph)
10/22/2004	9:54	24.8	25.2	-0.4	905	Breezy (10-15 mph)
10/22/2004	10:00	21.9	20.1	1.8	902	Breezy (10-15 mph)
10/22/2004	10:07	41	NA	NA	~25' downstream of hydraulic dredge - Deposit POG-2	Breezy (10-15 mph)
10/22/2004	10:14	21.5	18.1	3.4	912	Breezy (10-15 mph)
10/25/2004	9:16	26	25	1	905	Mild Breeze (5-10 mph)
10/25/2004	9:24	21	19.2	1.8	902	Mild Breeze (5-10 mph)
10/25/2004	9:37	32.2	30.6	1.6	912	Mild Breeze (5-10 mph)
10/26/2004	10:31	19.2	19.2	0	905	Windy (10-20 mph)
10/26/2004	10:40	29.9	30.2	-0.3	902	Windy (10-20 mph)
10/26/2004	10:45	38	NA	NA	~50' downstream of hydraulic dredge - Deposit POG-2	Windy (10-20 mph)
10/26/2004	10:50	26.9	25.8	1.1	912	Windy (10-20 mph)
10/27/2004	8:40	18.8	17.7	1.1	905	Windy (10-20 mph)
10/27/2004	8:52	24	25.2	-1.2	902	Windy (10-20 mph)
10/27/2004	9:03	28.7	29.8	-1.1	912	Windy (10-20 mph)
10/28/2004	9:01	14	14.4	-0.4	905	Calm (0-10 mph)
10/28/2004	9:07	14.4	15.1	-0.7	902	Calm (0-10 mph)
10/28/2004	9:15	20	NA	NA	~25-50' downstream of hydraulic dredge - Deposit POG-2	Calm (0-10 mph)
10/28/2004	9:21	17.5	19.8	-2.3	912	Calm (0-10 mph)
10/29/2004	10:56	34.8	36.4	-1.6	905	Calm (0-5 mph)
10/29/2004	11:03	31.2	33.2	-2	902	Calm (0-5 mph)
10/29/2004	11:10	27.5	NA	NA	~25' downstream of hydraulic dredge - Deposit POG-2	Calm (0-5 mph)
10/29/2004	11:16	24.4	23.6	0.8	912	Calm (0-5 mph)
11/1/2004	11:01	21.7	19.9	1.8	905	Calm (0-5 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/1/2004	11:08	24.6	23.9	0.7	902	Calm (0-5 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/1/2004	11:13	25.9	NA	NA	~25' downstream of hydraulic dredge - Deposit POG-2	Calm (0-5 mph)
11/1/2004	11:18	26.8	26.5	0.3	912	Calm (0-5 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/2/2004	8:41	17	19.3	-2.3	905	Breezy (5-15 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/2/2004	8:49	16.2	18.3	-2.1	902	Breezy (5-15 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/2/2004	8:56	35.8	NA	NA	~25' downstream of hydraulic dredge - Deposit POG-2	Breezy (5-15 mph)
11/2/2004	8:59	35	34.4	0.6	912	Breezy (5-15 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/3/2004	9:04	11.2	8.5	2.7	905	Calm (0-5 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/3/2004	9:24	10.2	11.9	-1.7	902	Calm (0-5 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/3/2004	9:30	11.2	NA	NA	~25' downstream of hydraulic dredge - Deposit POG-2	Calm (0-5 mph)
11/3/2004	9:31	13.5	11.7	1.8	912	Calm (0-5 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/3/2004	9:33	12.6	11.7	0.9	912	Calm (0-5 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/4/2004	11:10	24.8	24	0.8	905	Mild Breeze (5-10 mph) with Gusts, Telemetric Readings are off by one hour due to time change on 10/31
11/4/2004	11:16	20.8	24.8	-4	902	Mild Breeze (5-10 mph) with Gusts, Telemetric Readings are off by one hour due to time change on 10/31

11/4/2004	11:23	21.7	23.8	-2.1	912	Mild Breeze (5-10 mph) with Gusts, Telemetric Readings are off by one hour due to time change on 10/31
11/5/2004	10:11	10.5	10.2	0.3	905	Breezy (5-15 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/5/2004	10:18	11.6	12.9	-1.3	902	Breezy (5-15 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/5/2004	10:23	21	19.6	1.4	912	Breezy (5-15 mph), Telemetric Readings are off by one hour due to time change on 10/31
11/5/2004	10:30	26	NA	NA	~100' upstream of hydraulic dredge - Deposit POG-2 (near SCA intake)	Breezy (5-15 mph)
11/5/2004	10:30	24.1	NA	NA	~60' upstream of hydraulic dredge - Deposit POG-2	Breezy (5-15 mph)
11/5/2004	10:30	17.7	NA	NA	~40' upstream of hydraulic dredge - Deposit POG-2	Breezy (5-15 mph)
11/5/2004	10:30	26.6	NA	NA	~30' upstream of hydraulic dredge - Deposit POG-2	Breezy (5-15 mph)
11/5/2004	10:30	29	NA	NA	~20' upstream of hydraulic dredge - Deposit POG-2	Breezy (5-15 mph)
11/5/2004	10:30	24.5	NA	NA	~10' upstream of hydraulic dredge - Deposit POG-2	Breezy (5-15 mph)
11/5/2004	10:30	30.2	NA	NA	~5' upstream of hydraulic dredge - Deposit POG-2	Breezy (5-15 mph)
11/5/2004	10:30	35	NA	NA	At the dredge cutterhead (between the pontoons)	Breezy (5-15 mph)
11/5/2004	10:30	23	NA	NA	~15' downstream of hydraulic dredge - Deposit POG-2	Breezy (5-15 mph)
11/5/2004	10:30	20	NA	NA	~30' downstream of hydraulic dredge - Deposit POG-2	Breezy (5-15 mph)
11/5/2004	10:30	20	NA	NA	~50' downstream of hydraulic dredge - Deposit POG-2	Breezy (5-15 mph)
11/8/2004	9:28	10.4	10.5	-0.1	905	Calm (0-10 mph)
11/8/2004	9:38	10.9	11.6	-0.7	902	Calm (0-10 mph)
11/8/2004	9:46	15.2	15	0.2	912	Calm (0-10 mph)
11/8/2004	9:50	15.2	NA	NA	~50' upstream of hydraulic dredge - Deposit POG-2	Calm (0-10 mph)
11/8/2004	9:50	13.9	NA	NA	~25' upstream of hydraulic dredge - Deposit POG-2	Calm (0-10 mph)
11/8/2004	9:50	14.4	NA	NA	~10' upstream of hydraulic dredge - Deposit POG-2	Calm (0-10 mph)
11/8/2004	9:50	14.1	NA	NA	~10' downstream of hydraulic dredge - Deposit POG-2	Calm (0-10 mph)
11/8/2004	9:50	14	NA	NA	~25' downstream of hydraulic dredge - Deposit POG-2	Calm (0-10 mph)
11/8/2004	9:50	17.8	NA	NA	~50' downstream of hydraulic dredge - Deposit POG-2	Calm (0-10 mph)
11/8/2004	9:50	14.8	NA	NA	~100' downstream of hydraulic dredge - Deposit POG-2	Calm (0-10 mph)
11/8/2004	9:50	13.5	NA	NA	~150' downstream of hydraulic dredge - Deposit POG-2	Calm (0-10 mph)
11/9/2004	9:23	10	9.9	0.1	905	Breezy (10-15 mph)
11/9/2004	9:29	9.9	10.7	-0.8	912	Breezy (10-15 mph)
11/9/2004	9:39	10.7	13.8	-3.1	902	Breezy (10-15 mph)
11/10/2004	9:06	24.2	20.3	3.9	905	Windy (15-20 mph)
11/10/2004	9:11	23.4	14.7	8.7	902	Windy (15-20 mph)
11/10/2004	9:17	21.1	20.7	0.4	912	Windy (15-20 mph)
11/11/2004	10:45	NA	15.6	NA	905	Breezy (5-15 mph)
11/11/2004	10:50	NA	13.6	NA	902	Breezy (5-15 mph)
11/11/2004	10:55	NA	21.7	NA	912	Breezy (5-15 mph)
11/12/2004	11:25	17.2	13.8	3.4	905	Calm (0-5 mph)
11/12/2004	11:33	16.2	9.3	6.9	902	Calm (0-5 mph)
11/12/2004	11:42	13.5	12	1.5	912	Calm (0-5 mph)
11/12/2004	11:50	17.1	NA	NA	North (Downstream) of Sand Placement - Outside of Silt Curtain	Calm (0-5 mph)
11/12/2004	11:51	19.1	NA	NA	East of Sand Placement - Outside of Silt Curtain	Calm (0-5 mph)
11/12/2004	11:52	17.4	NA	NA	South (Upstream) of Sand Placement - Outside of Silt Curtain	Calm (0-5 mph)
11/12/2004	11:55	16.9	NA	NA	Inside Sand Placement Silt Curtain	Calm (0-5 mph)
11/12/2004	11:58	22	NA	NA	Sand Placement Discharge Area	Calm (0-5 mph)
11/15/2004	11:25	14.7	13.9	0.8	905	Calm (0-10 mph)
11/15/2004	11:30	18.9	11.2	7.7	902	Calm (0-10 mph)
11/15/2004	11:37	17.2	14	3.2	912	Calm (0-10 mph)

Attachment 6

GW Partners
Lower Fox River - OU-1
04G007
Effluent Results - Draft and Preliminary

Date	Sample ID	TSS (mg/L)	BOD (mg/L)	Daily Flow (million gallons)[c]	Ammonia Nitrogen (mg/L)	Total PCBs (ug/L)	Mercury (Low-Level) (ng/L)
9/3/04	IRA04 DEWT EF1	21	-	-	<0.32	<0.26	-
9/7/04	IRA04 DEWT EF2	9.0	-	-	0.67	<0.24	-
9/9/04	IRA04 DEWT EF3	19	-	-	3.1	<0.24	-
9/10/04	IRA04 DEWT EF4	24	-	-	4.5	<0.32	-
9/11/04	IRA04 DEWT EF5	16	-	-	2.9	<0.25	-
9/13/04	IRA04 DEWT EF6	12	-	-	4.9	<0.26	-
9/15/04	IRA04 DEWT EF7	87	-	-	6.7	<0.25	-
9/16/04	IRA04 DEWT EF8	40	16	0.8	4.4	<0.25	-
9/17/04	IRA04 DEWT EF9	33	12	-	3.2	<0.25	-
9/17/04 Dup.	IRA04 DEWT EF9 DUP	31	-	-	3.1	-	-
9/20/04	IRA04 DEWT EF10	11	3.1	1.1	2.2	<0.26	-
9/20/04	IRA04 DEWT EF10 Dup	-	-	-	-	<0.25	-
9/21/04	IRA04 DEWT EF11	17	3.2	0.3	1.8	<0.25	-
9/21/04	IRA04 DEWT EF11 Dup	-	3.2	-	-	-	-
9/22/04	IRA04 DEWT EF12	17	6.6	0.4	1.5	<0.25	-
9/23/04	IRA04 DEWT EF13	20	3.4	1.0	1.5	<0.25	-
9/24/04	IRA04 DEWT EF14	18	3.1	0.4	1.4	<0.25	-
9/25/04	IRA04 DEWT EF15	19	<2.0	-	1.5	<0.25	-
9/27/04	IRA04 DEWT EF16	10	<2.0	0.6	1.7	<0.25	-
9/28/04	IRA04 DEWT EF17	11	4.2	0.7	1.5	<0.26	-
9/29/04	IRA04 DEWT EF18	13	4.4	0.6	1.4	<0.26	-
9/29/04	IRA04 DEWT EF18 Dup	10	4.3	-	1.4	<0.25	-
9/30/04	IRA04 DEWT EF19	11	5.4	0.5	1.4	<0.25	-
10/1/04	IRA04 DEWT EF20	12	5.9	0.8	<0.32	<0.25	-
10/2/04	IRA04 DEWT EF21	23	9.6	-	1.2	<0.24	-
10/4/04	-	-	-	0.6	-	-	-
10/5/04	IRA04 DEWT EF22	20	7.7	-	1.4	<0.25	-
10/7/04	IRA04 DEWT EF23	13	4.5	1.1	3.7	<0.24	-
10/8/04	IRA04 DEWT EF24	14	6.0	0.6	3.8	<0.25	-
10/9/04	IRA04 DEWT EF25	4.4	<2.0	-	4.9	<0.25	-
10/11/04	IRA04 DEWT EF26	3.3	<2.0	0.5	4.4	<0.25	-
10/12/04	IRA04 DEWT EF27	3.6	<2.0	0.2	4.7	<0.25	-
10/13/04	DEWT EF28	2.4	<2.0	0.5	5.1	<0.52	-
10/14/04	DEWT EF29	9.3	5.2	0.3	4.5	<0.25	-
10/14/04	DEWT EF29 Dup	-	-	-	4.5	-	-
10/15/04	DEWT EF30	10	8.0	-	3.9	-	-
10/18/04	-	-	-	0.7	-	-	-
10/19/04	DEWT EF31	10	7.6	0.6	8.8	<0.25	-
10/19/04	DEWT EF31 Dup.	10	7.4	-	-	<0.25	-
10/20/04	DEWT EF32	20	24	0.3	8.7	<0.25	-
10/21/04	DEWT EF33	12	14	0.6	12	<0.25	-
10/22/04	DEWT EF34	20	18	0.56	9.3	<0.25	-
10/23/04	DEWT EF35	6.5	6.9	-	23	<0.25	-
10/24/04	DEWT EF36	<5.0	3.2	0.34	28	<0.25	-
10/26/04	DEWT EF37	3.8	3.6	0.3	34	-	-
10/27/04	DEWT EF38	6.4	6.1	0.34	36	<0.28	-
10/28/04	DEWT EF39	6.4	4.0	0.31	39	<0.25	3.25
10/28/04	DEWT EF39 TB	-	-	-	-	-	<0.197
10/29/04	DEWT EF40	8.2	4.3	0.5	35	<0.25	-
10/29/04	DEWT EF40 Dup.	6.8	4.3	-	42	<0.25	-

GW Partners
Lower Fox River - OU-1
04G007
Effluent Results - Draft and Preliminary

Date	Sample ID	TSS (mg/L)	BOD (mg/L)	Daily Flow (million gallons)[c]	Ammonia Nitrogen (mg/L)	Total PCBs (ug/L)	Mercury (Low-Level) (ng/L)
10/30/04	DEWT EF41	5.6	2.8	0.5	36	<0.25	-
11/2/04	DEWT EF42	3.7	2.7	0.2	43	-	-
11/3/04	DEWT EF43	-	6.2	0.6	38	<0.25	-
11/4/04	DEWT EF44	11	12	0.47	24	-	-
11/5/04	DEWT EF45	10	5.9	0.15	30	-	-
11/6/04	DEWT EF46	9	3.3	0.32	32	-	-
11/7/04	-	-	-	0	-	-	-
11/8/04	DEWT EF47	-	-	0.059	34	-	-
11/9/04	DEWT EF48	4.8	-	0.49	-	-	-
11/10/04	DEWT EF49	6	-	0.25	-	-	-
11/10/04	DEWT EF49 DUP	5	-	-	-	-	-
11/11/04		-	-	0	-	-	-
11/12/04		-	-	0	-	-	-
Performance Expectation		5[a], 10[b]	10	1.2 - 1.7 (mgd)	67[d]	< 0.1 - 0.5	<0.2 to <0.5[e]

[a] Monthly average

[b] Daily maximum

[c] Daily flow measured from midnight to midnight through 10/26/04 then measured at approx 10:00 AM till 10:00 AM thereafter.

[d] Actual performance expectation is dependent on flow rate and pH of effluent. 67 mg/L is a conservative expectation.

[e] Previous Fox River dredging projects experienced effluents with low level mercury values ranging from nd to 6 ng/L.

Data received by 11/8/04

Data presented are Draft and Preliminary.

These data have not undergone QA procedures and should not be viewed as final.

Attachment 7

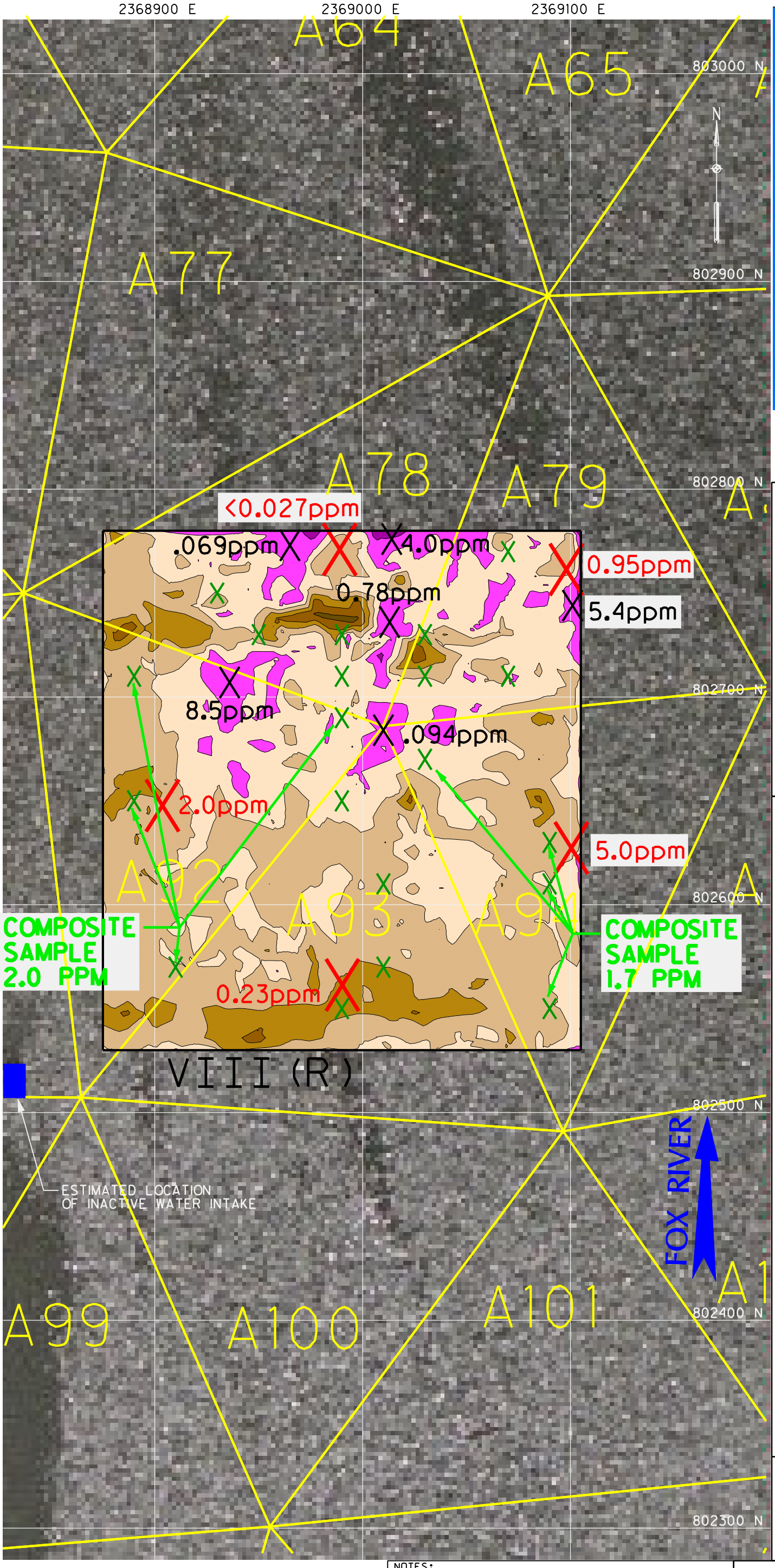
GW Partners
Lower Fox River - OU-1
04G007
Sediment Results - Draft and Preliminary

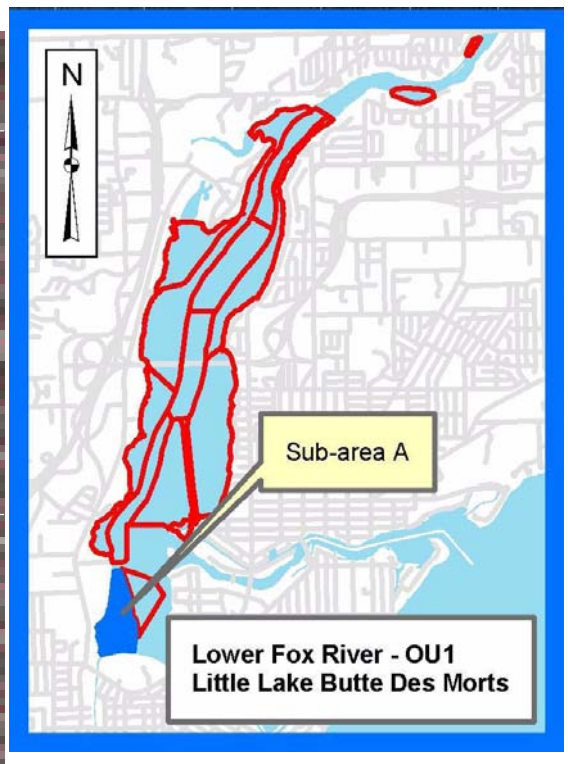
Date	Sample ID	Percent Solids (%)	Percent Solids Air Dried (%)	Total PCBs (ug/Kg)
10/11/04	I-RA-04-OOOA-DS-1	61	99	170
10/11/04	I-RA-04-OOOA-PS-1P	61	100	1200
10/11/04	I-RA-04-OOOA-PS-6P	62	100	1700
10/11/04	OOOA-PS-7S-10S	69	100	550
10/11/04	I-RA-04-OOOA-PS-11P	72	100	290
10/11/04	I-RA-04-OOOA-PS-21P	53	100	460
10/12/04	I-RA-04-OOOA-PS-16P	69	100	440
10/25/04	OOOA-PS-26P	64	99	<27
10/25/04	OOOA-PS-ATE1-51	48	98	69(Q)
10/25/04	OOOA-PS-ATE2-52	27	98	4000
10/25/04	OOOA-PS-ATE3-53	45	98	780
10/25/04	OOOA-PS-ATE4-54	22	98	5400
10/25/04	OOOA-PS-ATE1-55	22	97	8500
10/25/04	OOOA-PS-ATE1-56	57	98	94
10/25/04	OOOA-PS-31P	42	98	950
10/25/04	OOOA-PS-36P	22	97	2000
10/25/04	OOOA-PS-37S-40S	28	98	2000
10/25/04	OOOA-PS-41P	57	99	230
10/25/04	OOOA-PS-46P	23	97	5000
10/25/04	OOOA-PS-37S-40S	28	98	2000
10/25/04	OOOA-PS-47S-50S	42	99	1700

E - Analyte concentration exceeds calibration range.
Q - Result between LOD and LOQ.

Data received by 11/15/04
Data presented are Draft and Preliminary.
These data have not undergone QA procedures and should not be viewed as final.

Attachment 8





SEDIMENT REMAINING

REGION VIII (R) INSIDE LIMITS
ABOVE 1 PPM RAL
24 C.Y.

SEDIMENT OVERCUT

REGION VIII (R) INSIDE LIMITS
BELOW 1 PPM RAL
1.130 C.Y.

SEDIMENT REMOVAL

REGION VIII (R) INSIDE LIMITS
3.440 C.Y.

REGION VIII (R) INSIDE & OUTSIDE LIMITS
3.700 C.Y.

LEGEND

SEDIMENT REMOVAL

- 0.5 - 0.9′ REMAINING ABOVE 1 PPM RAL (0.2% OF AREA)
- 0.0 - 0.5′ REMAINING ABOVE 1 PPM RAL (8% OF AREA)
- 0.0 - 0.5′ CUT BELOW 1 PPM RAL (37% OF AREA)
- 0.5 - 1.0′ CUT BELOW 1 PPM RAL (46% OF AREA)
- 1.0 - 1.5′ CUT BELOW 1 PPM RAL (8% OF AREA)
- 1.5 - 2.0′ CUT BELOW 1 PPM RAL (0.7% OF AREA)
- 2.0 - 2.2′ CUT BELOW 1 PPM RAL (0.1% OF AREA)

X SECONDARY SAMPLE LOCATION

X ADDITIONAL SAMPLE LOCATION WITH LAB RESULTS

X PRIMARY SAMPLE LOCATION WITH LAB RESULTS

VIII (R) 2004 REMOVAL REGION

0 25′ 50′ 75′ 100′
BAR SCALE

Foth & Van Dyke

DRAFT

NOTES:

1. SEDIMENT ISOPACH CREATED BY USING GMS DERIVED 1 PPM DREDGE CONTOURS VS BRENNAN'S OCTOBER 18, 2004 SURVEY.
2. SEDIMENT REMOVAL VOLUMES OBTAINED USING BRENNAN'S SEPTEMBER 10 AND OCTOBER 18, 2004 SURVEYS.
3. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
4. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
5. SUB-AREA A DELINEATION FROM 2003 PRE-DESIGN SAMPLING PLAN.

GW PARTNERS

FIGURE 1

LOWER FOX RIVER
SUB-AREA A - REGION VIII (R)
MODIFIED POST DREDGE SAMPLING PLAN

Prepared By: Foth & Van Dyke	Date: NOV. 16, 2004	
Drawn By: JRB2	Checked By: DMR	Scope: 04G007

I:\02g005\NAD 83 - NAVD 88 DATUM\GMS\Deposit-A\2g05fig33d.3d
11/16/2004 jow

DRAFT

Foth & Van Dyke

Memorandum

November 23, 2004

TO: Ben Hung, WDNR
Greg Hill, WDNR
Gary Kincaid, WDNR
Jim Hahnenberg, EPA
Boldt Oversight Team

CC: Bill Hartman, GW Partners
Amie Obermeier, GW Partners
Sherman LaViolette, CH2MHill
Mike Jury, CH2MHill
Tara Konkle, Foth & Van Dyke
Steve Laszewski, Foth & Van Dyke

FR: Jim Hutchison, Foth & Van Dyke

RE: OU1 2004 Environmental Monitoring Data – November 12 through November 19, 2004

Attached are monitoring data for the one week period beginning November 12, 2004 and ending November 19, 2004 for the environmental monitoring activities pursuant to the 2004 RA Work Plan, May, 2004 and subsequent addendum. If you have any questions or comments please contact Jim Hutchison at (920) 497 2500 or at jhutchison@foth.com. In addition to the weekly data summary, project data will be provided in a database format following completion of the 2004 RA work.

Data presented are draft and preliminary. These data have not undergone QA procedures and should not be viewed as final.

Air Monitoring Data:

Summary: Air sampling at the four meter locations was initiated on August 7, 2004. Sampling consisted of a 72 hour sampling event per week. Continuous sampling began on August 30, 2004. Air monitors were temporarily shut down on Friday November 9, 2004. However, monitors will be activated during 2004 sediment removal.

Attachment 1 – Summary of River Sampling Results 11/1/04 through 11/10/04
Attachment 2 – Monitor location sketch

Surface Water Data:

Summary: River turbidity meters began operation on August 20, 2004 monitoring river turbidity (NTUs) every 15 minutes at three locations. The meters are located upstream (meter 912), downstream (meter 902) and far downstream (meter 905) of sand placement

activities. During this monitoring period, sand placement was performed on 11/12/04 and 11/15/04 through 11/18/04. Generally the data show that the downstream turbidity has been within acceptable limits of the upstream turbidity. **Please note the turbidity data graphs indicate dredging, no dredging and sand placement times.**

Attachment 3 - Graphs and Tabulation of Turbidity Data for Upstream, Downstream, Far Downstream and Upstream/Downstream Difference Graph

Field Surface Water Data

Summary: Field data includes hand held turbidity measurements and TSS sampling taken at the turbidity monitoring stations between August 30, 2004 and November 22, 2004. The correlation between TSS and turbidity to date (11/12/04) shows a correlation coefficient of 0.88.

Attachment 4 -TSS and Field Turbidity Data and TSS/Turbidity Correlation

Water Treatment Data:

Summary: The effluent water is being analyzed for TSS, PCBs, Ammonia and BOD. Low level mercury is also analyzed once per week. Attachment 5 contains data through 11/10/04.

Attachment 5 - Effluent Water Results

Post-Dredge Bathymetric QA Summary

Summary: QA bathymetric data for Region VIII of Deposit A was included in the October 26, 2004 memorandum.

Sediment Sample Verification:

Summary: Post dredge sediment sample collection began on October 11, 2004 and finished on October 12, 2004 in Region IV of Deposit A. Post dredge sediment sample collection in Region VIII of Deposit A was completed on October 25, 2004. The sediment PCB results were included in the November 16, 2004 environmental data memorandum.

Sand Placement Verification:

Summary: Sand placement was initiated on November 10, 2004. Verification of sand placement thickness has not been completed to date.

Attachment: None

Note: Transmitted when available, as this data will be obtained less frequently than other project environmental data.

Attachment 1

GW Partners, LLC

Lower Fox River Operable Unit 1

Summary of Air Sampling Results Calculated through November 22, 2004

All Results Reported in Total PCBs[1]

Dates	Sampling Round	Location ID	Sample ID	Laboratory Method[2]	Laboratory Reporting Limit (Total µg of PCBs)	Laboratory Results (Total µg of PCBs)[3]	Total Air Volume Sampled (Total m^3)		Calculated PCB Conc'n ($\mu g/m^3$)[4]
11-1-04 to 11-4-04	26	GWP-1	PCB-01-26	EPA TO-4A	0.5	ND	1070.01	≤	0.00047
11-1-04 to 11-4-04	26	GWP-2	PCB-02-26	EPA TO-4A	0.5	ND	1098.49	≤	0.00046
11-1-04 to 11-4-04	26	GWP-3	PCB-03-26	EPA TO-4A	0.5	ND	977.98	≤	0.00051
11-1-04 to 11-4-04	26	GWP-4	PCB-04-26	EPA TO-4A	0.5	ND	999.41	≤	0.00050
11-4-04 to 11-7-04	27	GWP-1	PCB-01-27	EPA TO-4A	0.5	ND	1124.2	≤	0.00044
11-4-04 to 11-7-04	27	GWP-2	PCB-02-27	EPA TO-4A	0.5	ND	1126.63	≤	0.00044
11-4-04 to 11-7-04	27	GWP-3	PCB-03-27	EPA TO-4A	0.5	ND	1099.35	≤	0.00045
11-4-04 to 11-7-04	27	GWP-4	PCB-04-27	EPA TO-4A	0.5	ND	1120.29	≤	0.00045
11-4-04 to 11-7-04	27	N/A	Field Blank 11	EPA TO-4A	0.5	ND	N/A	≤	N/A
11-7-04 to 11-10-04	28	GWP-1	PCB-01-28	EPA TO-4A	0.5	ND	1084.73	≤	0.00046
11-7-04 to 11-10-04	28	GWP-2	PCB-02-28	EPA TO-4A	0.5	ND	1097.62	≤	0.00046
11-7-04 to 11-10-04	28	GWP-3	PCB-03-28	EPA TO-4A	0.5	ND	1065.51	≤	0.00047
11-7-04 to 11-10-04	28	GWP-4	PCB-04-28	EPA TO-4A	0.5	ND	1091.16	≤	0.00046

Notes:

1. The laboratory reports the results in terms of significant Aroclors. Included are Aroclors 1016, 1221, 1232, 1242, 1248, 1254 and 1260. This table reports total PCB Aroclors and calculates a total PCB ambient air concentration.

2. EPA Compendium Method TO-4A is for determination of pesticides and polychlorinated biphenyls in ambient air using high volume polyurethane foam (PUF) sampling followed by gas chromoatographic/multi-detector detection (GC/MD).

3. ND = "None Detected". Given the laboratory reporting limit is 0.5 ug/sample, the concentration is calculated based on this value and reported as less than this concentration.

4. As a frame of reference, the airborne concentrations observed here could be compared to the airborne concentrations observed during the previous 56/57 Demonstration Project in 1999. During that study, concentrations collected within the property boundaries of the remediation area ranged from 0.0013 to 0.0216 ug/m^3 during dredging. Baseline concentrations, obtained prior to this same dredging project ranged from 0.0003 to 0.0016 ug/m^3.

Attachment 2

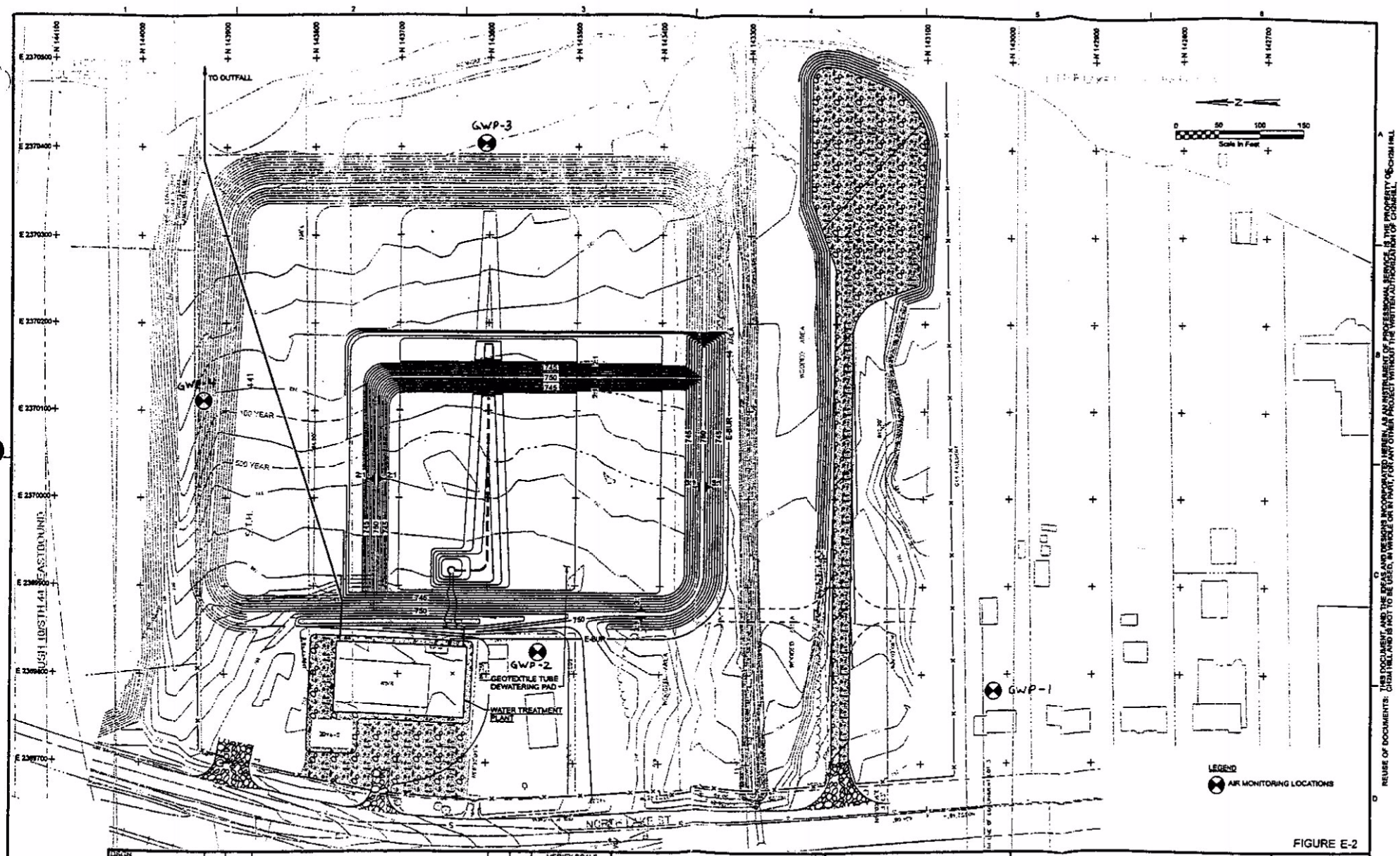


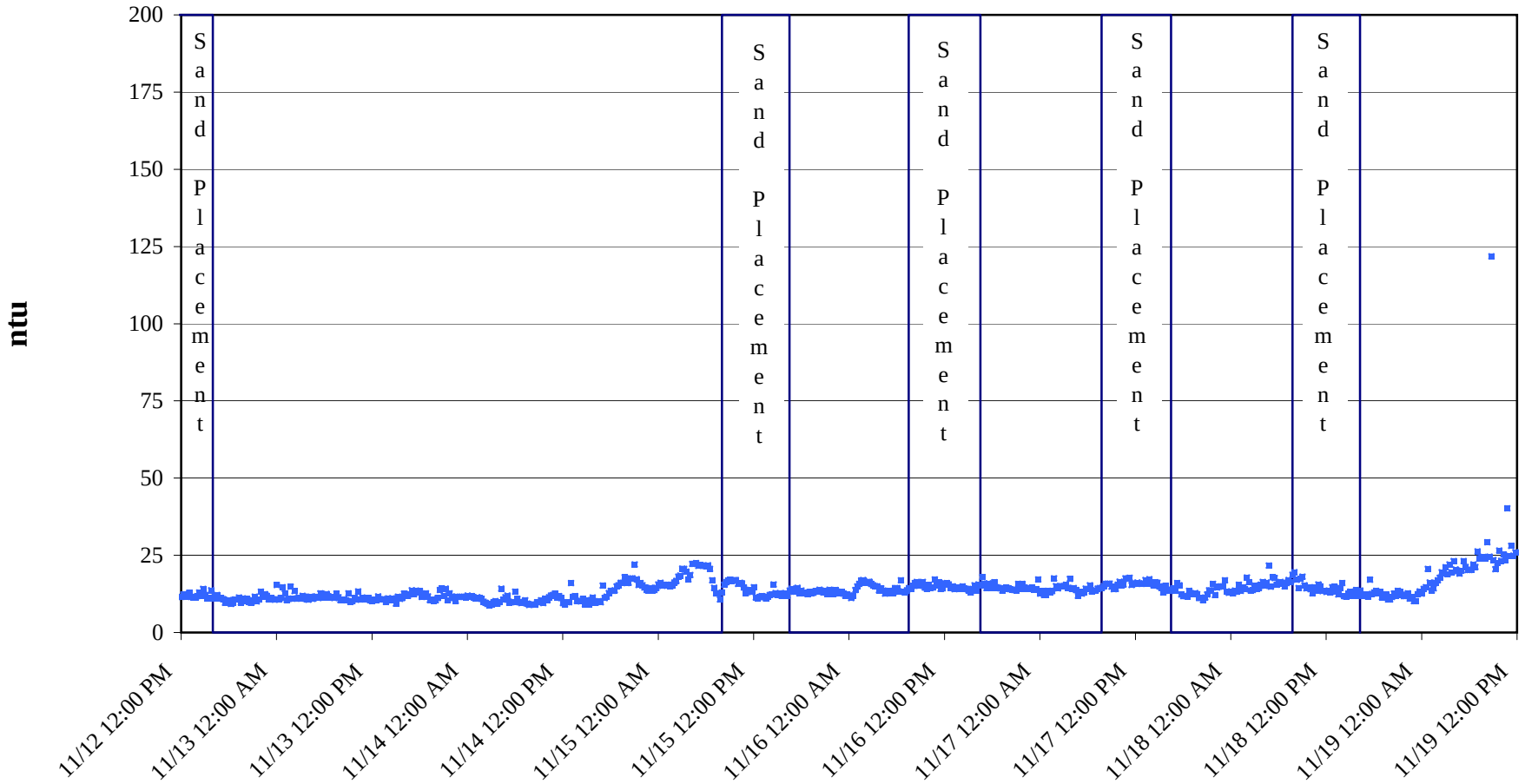
FIGURE E-2

DESIGN	C.M.LIETHEN				VERIFY SCALE	CH2MHILL	LOWER FOX RIVER (OU1) 2004 REMEDIAL ACTION TOWN OF MENASHA, WI G.W. PARTNERS, LLC	AIR MONITORING LOCATIONS	SHEET
DR	I.M.ZAEFKE				BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.				DWG C-1
CHK	D.J.PLOMB								DATE MAY 2004
APVD	S.D.LAVOLETTE	NO	DATE	REVISION	BY APVD				PROJ 315814.RA.01

FILENAME: tr5nc1416_183838.dgn PLOT DATE: 14-MAY-2004 PLOT TIME: 10:40:11

Attachment 3

Upstream Turbidity - Meter 912



Upstream Turbidity - Meter 912

11/12/2004 12:01	11.5	11/13/2004 12:01	10.2	11/14/2004 12:01	9.5	11/15/2004 12:01	14.7	11/16/2004 12:01	15.9	11/17/2004 12:01	15.9	11/18/2004 12:01	13.101
11/12/2004 12:16	12.3	11/13/2004 12:16	10.601	11/14/2004 12:16	9.101	11/15/2004 12:16	11.3	11/16/2004 12:16	16	11/17/2004 12:16	16.201	11/18/2004 12:16	13.4
11/12/2004 12:31	12	11/13/2004 12:31	10.4	11/14/2004 12:31	9.8	11/15/2004 12:31	11.101	11/16/2004 12:31	15.601	11/17/2004 12:31	15.8	11/18/2004 12:31	13
11/12/2004 12:46	11.7	11/13/2004 12:46	11.7	11/14/2004 12:46	9.8	11/15/2004 12:46	11.5	11/16/2004 12:46	14.5	11/17/2004 12:46	15.7	11/18/2004 12:46	14.7
11/12/2004 13:01	12.9	11/13/2004 13:01	10.7	11/14/2004 13:01	16	11/15/2004 13:01	11.8	11/16/2004 13:01	14.9	11/17/2004 13:01	15.9	11/18/2004 13:01	14.8
11/12/2004 13:16	11.5	11/13/2004 13:16	10.8	11/14/2004 13:16	11.5	11/15/2004 13:16	11.5	11/16/2004 13:16	14	11/17/2004 13:16	17	11/18/2004 13:16	13.3
11/12/2004 13:31	11.3	11/13/2004 13:31	10.8	11/14/2004 13:31	11.8	11/15/2004 13:31	11.101	11/16/2004 13:31	14.101	11/17/2004 13:31	15.9	11/18/2004 13:31	12.3
11/12/2004 13:46	11.3	11/13/2004 13:46	9.9	11/14/2004 13:46	10.3	11/15/2004 13:46	11.601	11/16/2004 13:46	14.601	11/17/2004 13:46	17.3	11/18/2004 13:46	14.4
11/12/2004 14:01	11.8	11/13/2004 14:01	11.101	11/14/2004 14:01	10.3	11/15/2004 14:01	12.101	11/16/2004 14:01	14.2	11/17/2004 14:01	15.9	11/18/2004 14:01	16
11/12/2004 14:16	13	11/13/2004 14:16	10.5	11/14/2004 14:16	10.101	11/15/2004 14:16	12.3	11/16/2004 14:16	14.9	11/17/2004 14:16	15.3	11/18/2004 14:16	11.8
11/12/2004 14:31	12	11/13/2004 14:31	11.101	11/14/2004 14:31	10.9	11/15/2004 14:31	15.601	11/16/2004 14:31	14.3	11/17/2004 14:31	16.3	11/18/2004 14:31	11.601
11/12/2004 14:46	14.101	11/13/2004 14:46	10.601	11/14/2004 14:46	9.2	11/15/2004 14:46	12.8	11/16/2004 14:46	14.101	11/17/2004 14:46	16.101	11/18/2004 14:46	12.601
11/12/2004 15:01	12.101	11/13/2004 15:01	9.4	11/14/2004 15:01	10.5	11/15/2004 15:01	12.2	11/16/2004 15:01	13.7	11/17/2004 15:01	14.9	11/18/2004 15:01	13.2
11/12/2004 15:16	11.101	11/13/2004 15:16	11.601	11/14/2004 15:16	9.2	11/15/2004 15:16	12.7	11/16/2004 15:16	13	11/17/2004 15:16	14.5	11/18/2004 15:16	12
11/12/2004 15:31	11.2	11/13/2004 15:31	10.9	11/14/2004 15:31	10.2	11/15/2004 15:31	11.9	11/16/2004 15:31	14.101	11/17/2004 15:31	13	11/18/2004 15:31	12.601
11/12/2004 15:46	13.7	11/13/2004 15:46	11.2	11/14/2004 15:46	11.3	11/15/2004 15:46	12.601	11/16/2004 15:46	15.3	11/17/2004 15:46	15.101	11/18/2004 15:46	13.8
11/12/2004 16:01	11.101	11/13/2004 16:01	12.601	11/14/2004 16:01	9.7	11/15/2004 16:01	12.8	11/16/2004 16:01	13.7	11/17/2004 16:01	13.7	11/18/2004 16:01	11.9
11/12/2004 16:16	11.9	11/13/2004 16:16	12.101	11/14/2004 16:16	9.9	11/15/2004 16:16	12	11/16/2004 16:16	15.601	11/17/2004 16:16	13.5	11/18/2004 16:16	13.601
11/12/2004 16:31	12.101	11/13/2004 16:31	11.9	11/14/2004 16:31	10.2	11/15/2004 16:31	13.601	11/16/2004 16:31	15.3	11/17/2004 16:31	13.9	11/18/2004 16:31	12.2
11/12/2004 16:46	11.101	11/13/2004 16:46	12.4	11/14/2004 16:46	9.8	11/15/2004 16:46	14.2	11/16/2004 16:46	17.9	11/17/2004 16:46	14.3	11/18/2004 16:46	11.9
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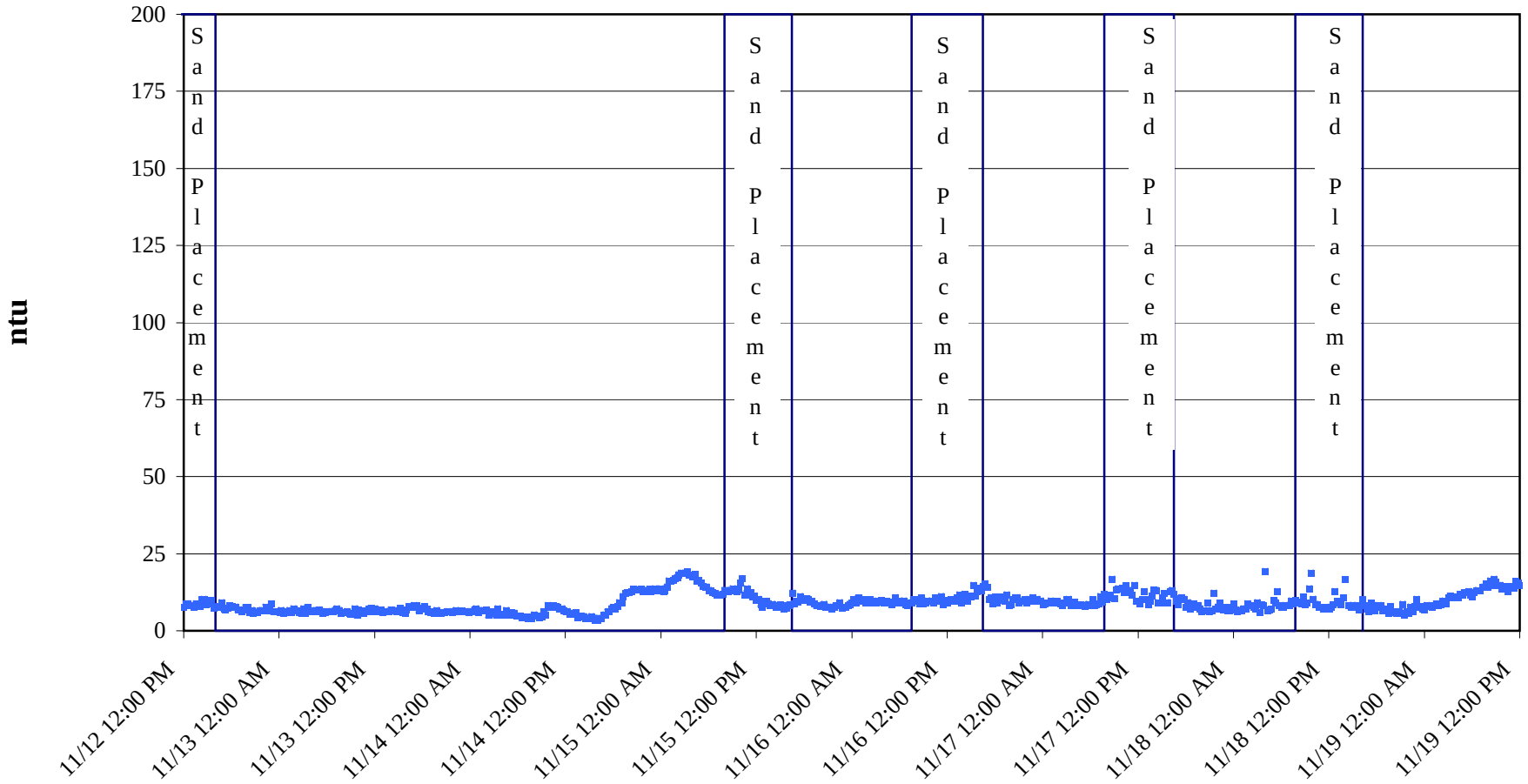
Downstream Turbidity - Meter 902



Downstream Turbidity - Meter 902

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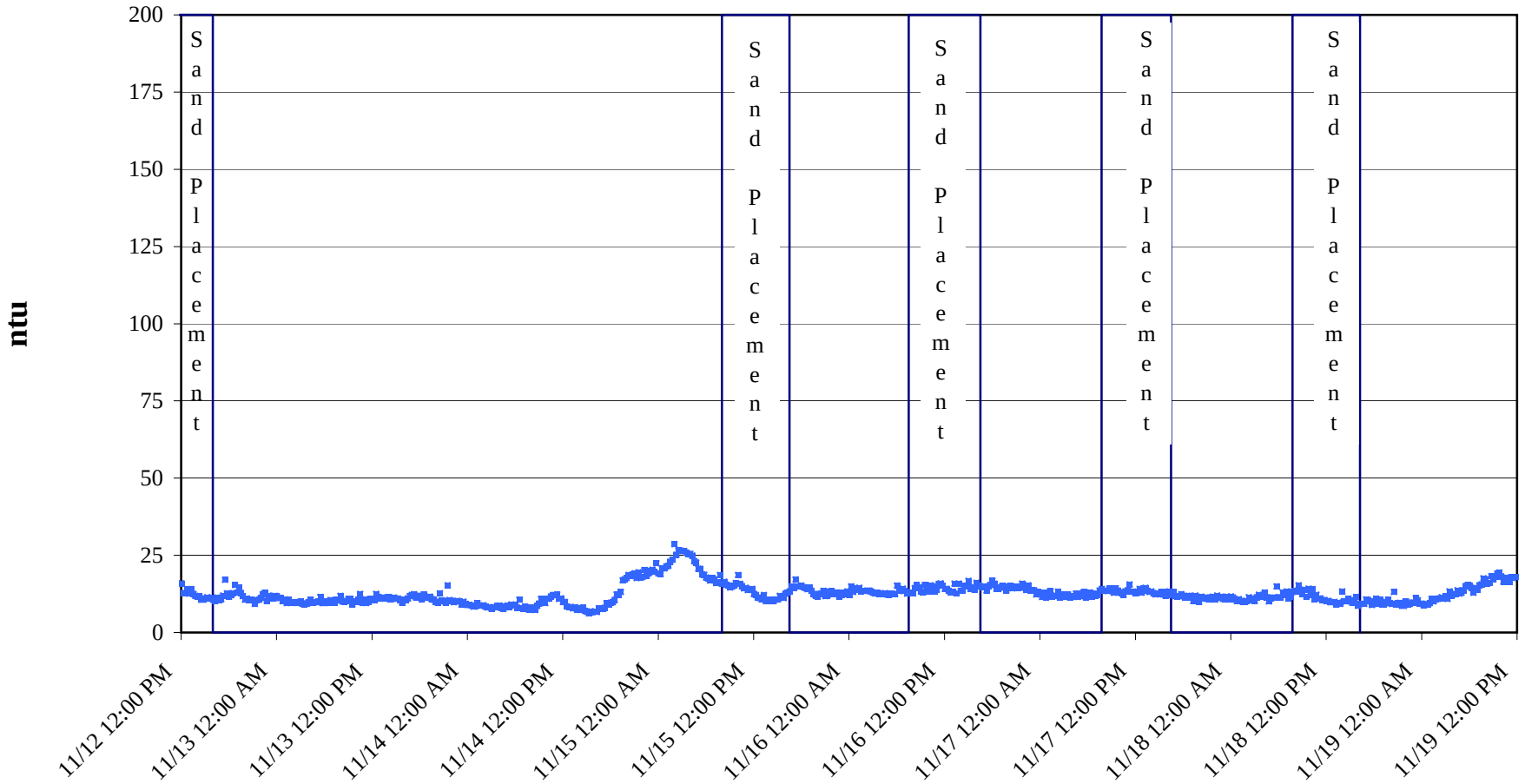
Far Downstream Turbidity - Meter 905



Far Downstream Turbidity - Meter 905

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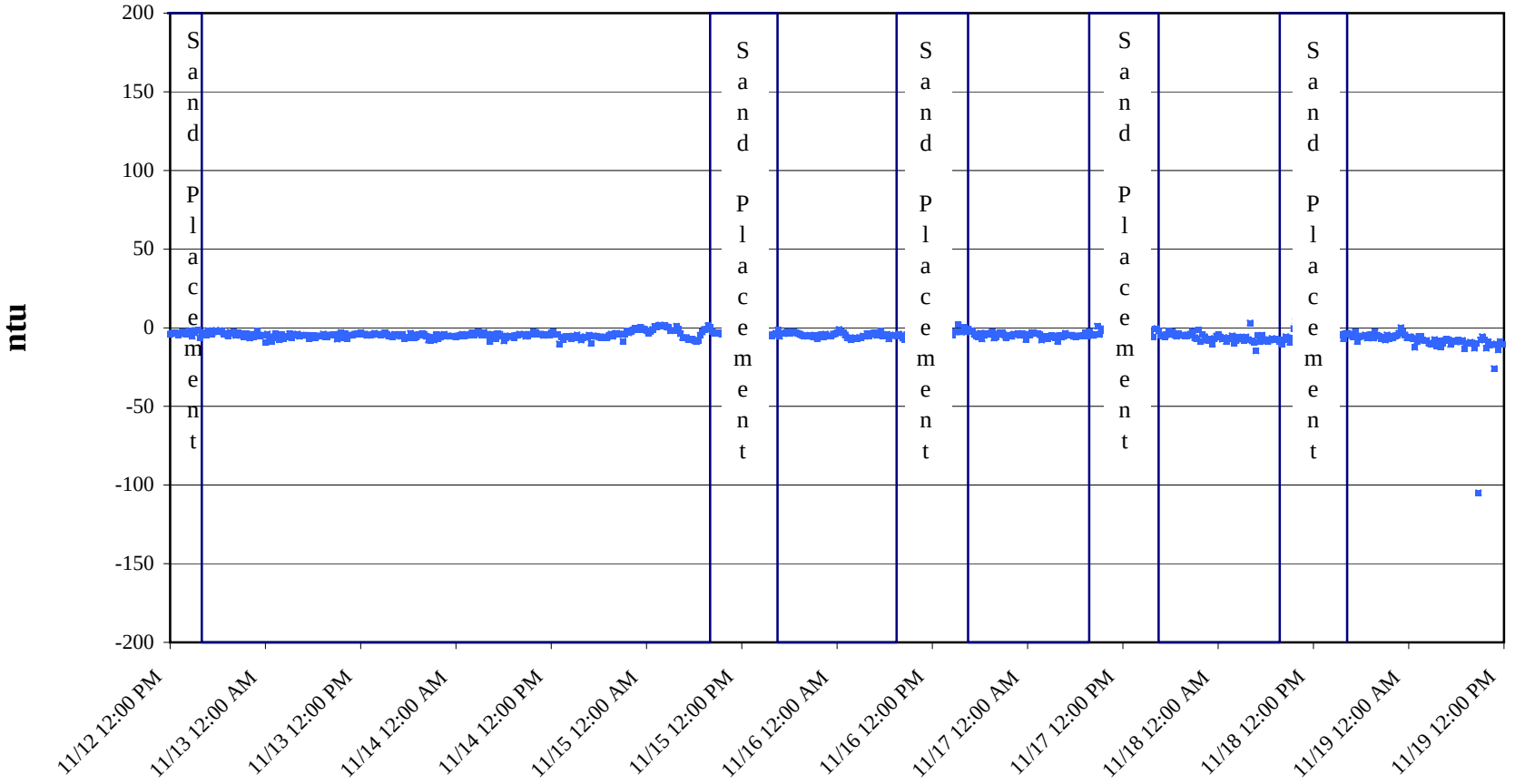
11/13/2004 10:16	10.601	11/14/2004 10:16	11	11/15/2004 10:16	15.7	11/16/2004 10:16	15.3	11/17/2004 10:16	12.8	11/18/2004 10:16	14	11/19/2004 10:16	16.5
11/13/2004 10:31	12.5	11/14/2004 10:31	11.7	11/15/2004 10:31	15	11/16/2004 10:31	15	11/17/2004 10:31	12.2	11/18/2004 10:31	10.8	11/19/2004 10:31	17.601
11/13/2004 10:46	9.7	11/14/2004 10:46	12.101	11/15/2004 10:46	14.3	11/16/2004 10:46	13.2	11/17/2004 10:46	13.3	11/18/2004 10:46	12.2	11/19/2004 10:46	17.701
11/13/2004 11:01	10.601	11/14/2004 11:01	12.101	11/15/2004 11:01	14.5	11/16/2004 11:01	13.9	11/17/2004 11:01	13.7	11/18/2004 11:01	11	11/19/2004 11:01	16.5
11/13/2004 11:16	9.5	11/14/2004 11:16	12.3	11/15/2004 11:16	13.8	11/16/2004 11:16	15.7	11/17/2004 11:16	15.601	11/18/2004 11:16	11.101	11/19/2004 11:16	17.9
11/13/2004 11:31	10	11/14/2004 11:31	10.9	11/15/2004 11:31	14	11/16/2004 11:31	15.9	11/17/2004 11:31	13.2	11/18/2004 11:31	10.5	11/19/2004 11:31	17.601
11/13/2004 11:46	10.9	11/14/2004 11:46	11.101	11/15/2004 11:46	14.101	11/16/2004 11:46	15.101	11/17/2004 11:46	13.2	11/18/2004 11:46	10.5	11/19/2004 11:46	17.9
												11/19/2004 12:01	19.601

Turbidity
Downstream/Upstream Difference
(Downstream Minus Upstream)



Attachment 4

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
8/30/2004	13:47	19.8	19	25	6	912	Calm (0-5 mph)	1 RA 04 DEWT SW 1 - 912
8/30/2004	13:54	19.1	24	22	-2	902	Calm (0-5 mph)	1 RA 04 DEWT SW 2 - 902
8/30/2004	14:01	20.1	18	23	5	905	Calm (0-5 mph)	1 RA 04 DEWT SW 3 - 905
8/31/2004	19:32	12.0	13.5	15	1.5	912	Calm (0-5 mph)	1 RA 04 DEWT SW 4 - 912
8/31/2004	19:40	18.2	23	25	2	902	Calm (0-5 mph)	1 RA 04 DEWT SW 5 - 902
				24				1 RA 04 DEWT SW 5Dup - 902
8/31/2004	19:47	12.8	13.5	17	3.5	905	Calm (0-5 mph)	1 RA 04 DEWT SW 6 - 905
				<1.0				1 RA 04 DEWT SW 7RINSE - 905
9/1/2004	12:56	24.2	23	28	5	912	Calm (0-5 mph)	1 RA 04 DEWT SW 8 - 912
9/1/2004	13:08	51.1	39	36	-3	902	Calm (0-5 mph)	1 RA 04 DEWT SW 9 - 902
9/1/2004	13:15	22.8	21.6	25	3.4	905	Calm (0-5 mph)	1 RA 04 DEWT SW 10 - 905
9/2/2004	12:16	22.4	23	26	3	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 11 - 912
9/2/2004	12:31	34.4	35	41	6	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 12 - 902
9/2/2004	12:44	33.3	30	31	1	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 13 - 905
9/3/2004	11:55	21.1	18	20	2	912	Calm (0-10 mph)	1 RA 04 DEWT SW 14 - 912
9/3/2004	12:05	39.7	30	28	-2	902	Calm (0-10 mph)	1 RA 04 DEWT SW 15 - 902
				28				1 RA 04 DEWT SW 15Dup - 902
9/3/2004	12:13	16.6	18	20	2	905	Calm (0-10 mph)	1 RA 04 DEWT SW 16 - 905
				<1.0				1 RA 04 DEWT SW 16RINSE - 905
9/7/2004	7:22	20	32.6		NA	902	Calm (0-10 mph)	NA
9/7/2004	7:26	20.7	33		NA	905	Calm (0-10 mph)	NA
9/7/2004	7:51	15.5	28.5		NA	912	Calm (0-10 mph)	NA
9/7/2004	11:52	18.7		24	5.3	912	Calm (0-10 mph)	1 RA 04 DEWT SW 18 - 912
9/7/2004	12:07	25		29	4	902	Calm (0-10 mph)	1 RA 04 DEWT SW 19 - 902
9/7/2004	12:15	22.7		23	0.3	905	Calm (0-10 mph)	1 RA 04 DEWT SW 20 - 905
9/8/2004	11:39	51.3		58	6.7	912	Windy (15-20 mph)	1 RA 04 DEWT SW 21 - 912
9/8/2004	11:50	36		42	6	902	Windy (15-20 mph)	1 RA 04 DEWT SW 22 - 902
9/8/2004	11:56	39.9		48	8.1	905	Windy (15-20 mph)	1 RA 04 DEWT SW 23 - 905
9/9/2004	11:11	31.8	33	25	-8	912	Calm (0-5 mph)	1 RA 04 DEWT SW 24 - 912
9/9/2004	11:20	24	26	25	-1	902	Calm (0-5 mph)	1 RA 04 DEWT SW 25 - 902
9/9/2004	11:35	23.2	26	24	-2	905	Calm (0-5 mph)	1 RA 04 DEWT SW 26 - 905
9/10/2004	9:36	23.5	26	21	-5	912	Windy (10-20 mph)	1 RA 04 DEWT SW 27 - 912
9/10/2004	9:48	1100	35	22	-13	902	Windy (10-20 mph)	1 RA 04 DEWT SW 28 - 902
				23				1 RA 04 DEWT SW 28Dup - 902
9/10/2004	10:00	657	30	24	-6	905	Windy (10-20 mph)	1 RA 04 DEWT SW 29 - 905
				<1.0				1 RA 04 DEWT SW 30RINSE - 905
9/11/2004	9:43	23	30	21	-9	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 31 - 912
9/11/2004	9:53	21.7	32	24	-8	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 32 - 902
9/11/2004	10:01	44.1	33	27	-6	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 33 - 905
9/14/2004	10:43	18.8	20.5	23	2.5	912	Windy (10-20 mph)	1 RA 04 000A SW 34 - 912
9/14/2004	10:52	20	18.6	22	3.4	902	Windy (10-20 mph)	1 RA 04 000A SW 35 - 902
9/14/2004	11:01	16	16.8	21	4.2	905	Windy (10-20 mph)	1 RA 04 000A SW 36 - 905
9/15/2004	11:16	36.9	35.9	16	-19.9	912	Windy (15-25 mph)	1 RA 04 000A SW 37 - 912
9/15/2004	11:31	23.9	23	26	3	902	Windy (15-25 mph)	1 RA 04 000A SW 38 - 902
9/15/2004	11:45	24.9	25.5	26	0.5	905	Windy (15-25 mph)	1 RA 04 000A SW 39 - 905
9/16/2004	9:30	36	36	44	8	912	Breezy (5-15 mph)	1 RA 04 000A SW 40 - 912
9/16/2004	9:55	26	26	28	2	902	Breezy (5-15 mph)	1 RA 04 000A SW 41 - 902
				27				1 RA 04 000A SW 41Dup - 902
9/16/2004	10:03	34.5	34.5	34	-0.5	905	Breezy (5-15 mph)	1 RA 04 000A SW 42 - 905
				<1.0				1 RA 04 000A SW 43RINSE - 905
9/17/2004	10:32	18.2	36	15	-21	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 44 - 912
9/17/2004	10:58	17.6	17	16	-1	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 45 - 902
9/17/2004	11:08	15.3	17	14	-3	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 46 - 905
9/20/2004	12:57	39.2	36	45	9	912	Breezy (5-15 mph)	1 RA 04 000A SW 47 - 912
9/20/2004	12:31	32.4	37	35	-2	902	Breezy (5-15 mph)	1 RA 04 000A SW 48 - 902
				35				1 RA 04 000A SW 48Dup - 902
9/20/2004	12:22	31.7	36	36	0	905	Breezy (5-15 mph)	1 RA 04 000A SW 49 - 905
				1.2				1 RA 04 000A SW 50RINSE - 905
9/21/2004	10:08	39.4	38	40	2	905	Breezy (5-15 mph)	1 RA 04 000A SW 51 - 905
9/21/2004	10:21	35.4	42	38	-4	902	Breezy (5-15 mph)	1 RA 04 000A SW 52 - 902
9/21/2004	10:35	41.7	36	52	16	912	Breezy (5-15 mph)	1 RA 04 000A SW 53 - 912
9/22/2004	10:13	21.8	24	22	-2	905	Calm (0-5 mph)	1 RA 04 000A SW 54 - 905
9/22/2004	10:23	21.3	23	24	1	902	Calm (0-5 mph)	1 RA 04 000A SW 55 - 902
9/22/2004	10:38	18.5	36	28	-8	912	Calm (0-5 mph)	1 RA 04 000A SW 56 - 912
9/23/2004	11:11	15.1	19	16	-3	905	Breezy (5-15 mph)	1 RA 04 000A SW 57 - 905
9/23/2004	11:23	31.7	20	19	-1	902	Breezy (5-15 mph)	1 RA 04 000A SW 58 - 902
9/23/2004	12:17	26.6	27	29	2	912	Breezy (5-15 mph)	1 RA 04 000A SW 59 - 912
9/24/2004	9:35	18.2	19.5	22	2.5	905	Calm (0-5 mph)	1 RA 04 000A SW 60 - 905
9/24/2004	9:44	34.8	27.8	30	2.2	902	Calm (0-5 mph)	1 RA 04 000A SW 61 - 902
				30				1 RA 04 000A SW 61Dup - 902
9/24/2004	10:02	39.1	47	72	25	912	Calm (0-5 mph)	1 RA 04 000A SW 62 - 912
				1.3				1 RA 04 000A SW 63RINSE - 912
9/27/2004	11:10	11.6	12.5	14	1.5	905	Calm (0-5 mph)	1 RA 04 000A SW 64 - 905
9/27/2004	11:21	53.1	16.5	16	-0.5	902	Calm (0-5 mph)	1 RA 04 000A SW 65 - 902

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
9/27/2004	11:36	14.3	20	22	2	912	Calm (0-5 mph)	1 RA 04 000A SW 66 - 912
9/27/2004	11:46	11.6			NA	902	Calm (0-5 mph)	NA
9/27/2004	13:01	17.2			NA	902	Calm (0-5 mph)	NA
9/28/2004	11:31	33.9	38	32	-6	905	Windy (15-20 mph)	1 RA 04 000A SW 67 - 905
9/28/2004	11:38	38.7	41	33	-8	902	Windy (15-20 mph)	1 RA 04 000A SW 68 - 902
				33				1 RA 04 000A SW 68Dup - 902
9/28/2004	11:48	33.4	34	44	10	912	Windy (15-20 mph)	1 RA 04 000A SW 69 - 912
				1.2				1 RA 04 000A SW 70RINSE - 912
9/29/2004	11:38	17.3	20.5	20	-0.5	905	Calm (0-5 mph)	1 RA 04 000A SW 71 - 905
9/29/2004	11:46	19.3	27.8	23	-4.8	902	Calm (0-5 mph)	1 RA 04 000A SW 72 - 902
9/29/2004	12:22	14.2	14.5	33	18.5	912	Calm (0-5 mph)	1 RA 04 000A SW 73 - 912
9/29/2004	12:31	14.3			NA	902	Calm (0-5 mph)	NA
9/30/2004	10:20	24.6		24	-0.6	905	Calm (0-5 mph)	1 RA 04 000A SW 74 - 905
9/30/2004	10:30	18.6		22	3.4	902	Calm (0-5 mph)	1 RA 04 000A SW 75 - 902
9/30/2004	10:50	11.3		19	7.7	912	Calm (0-5 mph)	1 RA 04 000A SW 76 - 912
10/1/2004	10:34	24.9	27	22	-5	905	Breezy (10-15 mph)	1 RA 04 000A SW 77 - 905
10/1/2004	10:45	31.8	38	35	-3	902	Breezy (10-15 mph)	1 RA 04 000A SW 78 - 902
				34				1 RA 04 000A SW 78Dup - 902
10/1/2004	11:03	34	34	34	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 79 - 912
				<1.0				1 RA 04 000A SW 80RINSE - 912
10/4/2004	10:21	31.2	21.5	27	5.5	905	Breezy (10-15 mph)	1 RA 04 000A SW 81 - 905
10/4/2004	10:27	27.5	22.2	28	5.8	902	Breezy (10-15 mph)	1 RA 04 000A SW 82 - 902
10/4/2004	10:58	32.7	34	34	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 83 - 912
10/6/2004	9:09	24.5	22	26	4	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 84 - 905
10/6/2004	9:24	25.5	22	24	2	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 85 - 902
				22				1 RA 04 000A SW 85Dup - 902
10/6/2004	9:49	29	26	31	5	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 86 - 912
				<2.0				1 RA 04 000A SW 87RINSE - 912
10/7/2004	9:55	24.6	24	22	-2	905	Calm (0-7 mph)	1 RA 04 000A SW 88 - 905
10/7/2004	10:11	19.9	23	23	0	902	Calm (0-7 mph)	1 RA 04 000A SW 89 - 902
10/7/2004	10:34	72.9	70	90	20	912	Calm (0-7 mph)	1 RA 04 000A SW 90 - 912
10/8/2004	11:24	75.5	85	55	-30	905	Calm (0-8 mph)	1 RA 04 000A SW 91 - 905
10/8/2004	11:38	66.6	66	54	-12	902	Calm (0-8 mph)	1 RA 04 000A SW 92 - 902
10/8/2004	11:54	83.1	91	150	59	912	Calm (0-8 mph)	1 RA 04 000A SW 93 - 912
10/11/2004	10:36	45.9	46	29	-17	905	Calm (0-5 mph)	1 RA 04 000A SW 94 - 905
10/11/2004	10:58	40	43	32	-11	902	Calm (0-5 mph)	1 RA 04 000A SW 95 - 902
10/11/2004	11:18	72.1	90	85	-5	912	Calm (0-5 mph)	1 RA 04 000A SW 96 - 912
10/12/2004	12:27	28.3	27	28	1	905	Very Calm (0-3 mph)	1 RA 04 000A SW 97 - 905
10/12/2004	12:35	24.1	30	86	56	902	Very Calm (0-3 mph)	1 RA 04 000A SW 98 - 902
				62				1 RA 04 000A SW 98Dup - 902
10/12/2004	12:49	95.4	90	130	40	912	Very Calm (0-3 mph)	1 RA 04 000A SW 99 - 912
				<2.0				1 RA 04 000A SW 100RINSE - 912
10/13/2004	10:01	13.4	23	17	-6	905	Very Calm (0-3 mph)	1 RA 04 000A SW 101 - 905
10/13/2004	10:16	31.3	38	17	-21	902	Very Calm (0-3 mph)	1 RA 04 000A SW 102 - 902
10/13/2004	10:31	62.4	81	55	-26	912	Very Calm (0-3 mph)	1 RA 04 000A SW 103 - 912
10/14/2004	8:57	50.6	46	38	-8	905	Breezy (10-15 mph)	1 RA 04 000A SW 104 - 905
10/14/2004	9:05	52.3	45	42	-3	902	Breezy (10-15 mph)	1 RA 04 000A SW 105 - 902
10/14/2004	9:23	177.1	160	160	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 106 - 912
10/18/2004	9:35	16.9	17	17	0	905	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 107 - 905
10/18/2004	9:45	15.2	17.8	18	0.2	902	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 108 - 902
10/18/2004	9:54	17.4	21.5	16	-5.5	912	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 109 - 912
10/19/2004	9:49	25.1	21	24	3	905	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 110 - 905
10/19/2004	9:29	15.3	16.5	17	0.5	902	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 111 - 902
				17				1 RA 04 POG2 SW 111Dup - 902
10/19/2004	9:21	17.7	16	13	-3	912	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 112 - 912
				<2.0				1 RA 04 POG2 SW 113RINSE - 912
10/20/2004	9:35	13.4	13.2	14	0.8	905	Very Calm (0-3 mph)	1 RA 04 POG2 SW 114 - 905
10/20/2004	9:46	15	14.5	15	0.5	902	Very Calm (0-3 mph)	1 RA 04 POG2 SW 115 - 902
10/20/2004	9:55	17.3	17.3	17	-0.3	912	Very Calm (0-3 mph)	1 RA 04 POG2 SW 116 - 912
10/21/2004	11:47	10.5	13	13	0	905	Calm (0-7 mph)	1 RA 04 POG2 SW 117 - 905
10/21/2004	12:01	13.6	13.3	14	0.7	902	Calm (0-7 mph)	1 RA 04 POG2 SW 118 - 902
10/21/2004	12:16	18.5	15.5	18	2.5	912	Calm (0-7 mph)	1 RA 04 POG2 SW 119 - 912
10/22/2004	9:54	25.2	24.8	27	2.2	905	Breezy (10-15 mph)	1 RA 04 POG2 SW 120 - 905
10/22/2004	10:00	20.1	21.9	24	3.9	902	Breezy (10-15 mph)	1 RA 04 POG2 SW 121 - 902
				24				1 RA 04 POG2 SW 121Dup - 902
10/22/2004	10:14	18.1	21.5	19	-2.5	912	Breezy (10-15 mph)	1 RA 04 POG2 SW 122 - 912
				<2.0				1 RA 04 POG2 SW 123RINSE - 912
10/25/2004	9:16	25	26	30	4	905	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 124 - 905
10/25/2004	9:24	19.2	21	22	1	902	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 125 - 902
10/25/2004	9:37	30.6	32.2	32	-0.2	912	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 126 - 912
10/26/2004	10:31	19.2	19.2	27	7.8	905	Windy (10-20 mph)	1 RA 04 POG2 SW 127 - 905
10/26/2004	10:40	30.2	29.9	35	5.1	902	Windy (10-20 mph)	1 RA 04 POG2 SW 128 - 902
				34				1 RA 04 POG2 SW 128Dup - 902
10/26/2004	10:50	25.8	26.9	29	2.1	912	Windy (10-20 mph)	1 RA 04 POG2 SW 129 - 912

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

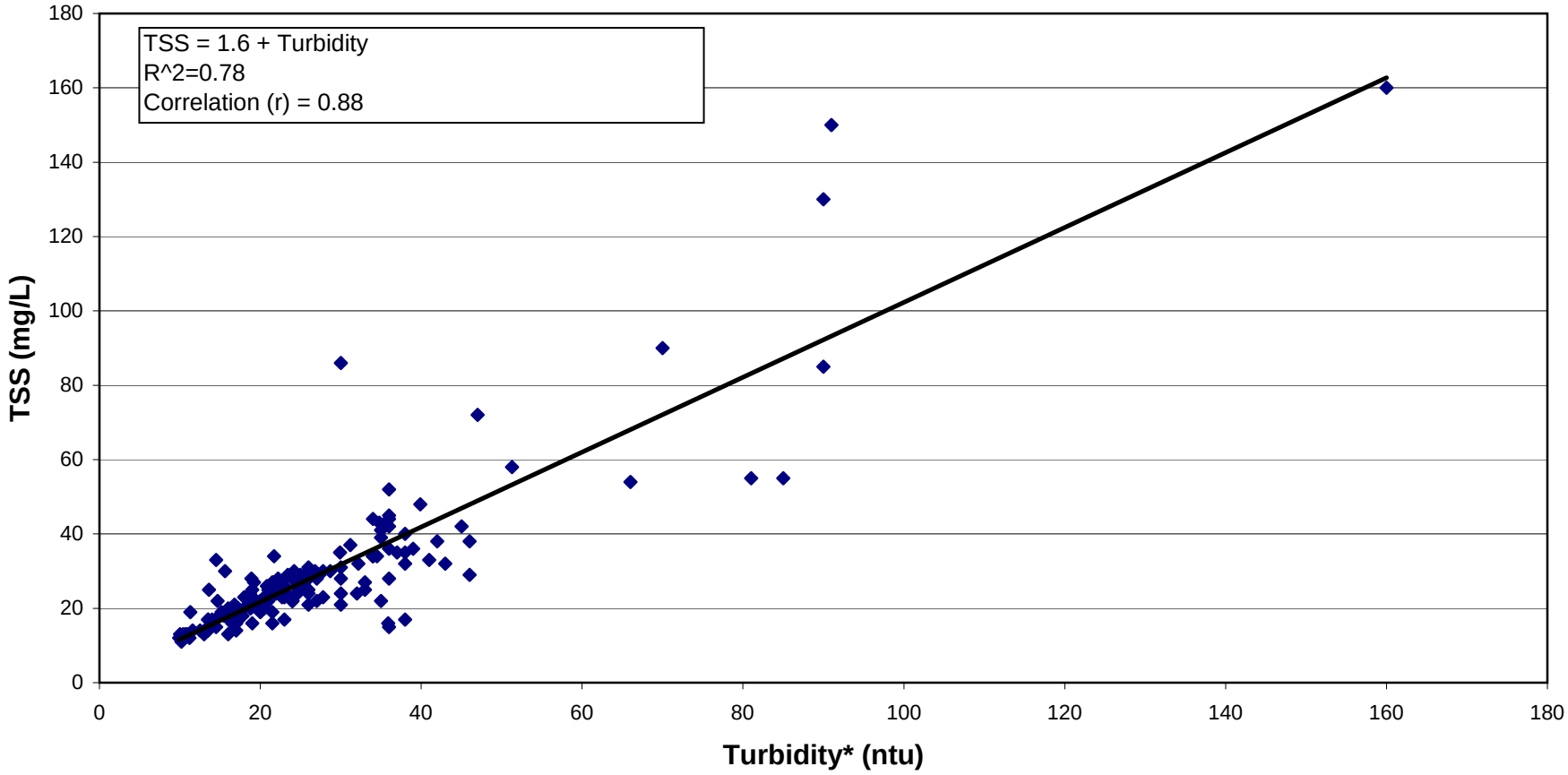
Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
				<1.0				1 RA 04 POG2 SW 130RINSE - 912
10/27/2004	8:40	17.7	18.8	20	1.2	905	Windy (10-20 mph)	1 RA 04 POG2 SW 131 - 905
10/27/2004	8:52	25.2	24	28	4	902	Windy (10-20 mph)	1 RA 04 POG2 SW 132 - 902
10/27/2004	9:03	29.8	28.7	30	1.3	912	Windy (10-20 mph)	1 RA 04 POG2 SW 133 - 912
10/28/2004	9:01	14.4	14	17	3	905	Calm (0-10 mph)	1 RA 04 POG2 SW 134 - 905
10/28/2004	9:07	15.1	14.4	17	2.6	902	Calm (0-10 mph)	1 RA 04 POG2 SW 135 - 902
10/28/2004	9:21	19.8	17.5	18	0.5	912	Calm (0-10 mph)	1 RA 04 POG2 SW 136 - 912
10/29/2004	10:56	36.4	34.8	43	8.2	905	Calm (0-5 mph)	1 RA 04 POG2 SW 137 - 905
10/29/2004	11:03	33.2	31.2	37	5.8	902	Calm (0-5 mph)	1 RA 04 POG2 SW 138 - 902
				34				1 RA 04 POG2 SW 138Dup - 902
10/29/2004	11:16	23.6	24.4	24	-0.4	912	Calm (0-5 mph)	1 RA 04 POG2 SW 139 - 912
				<1.0				1 RA 04 POG2 SW 140RINSE - 912
11/1/2004	11:01	19.9	21.7	25	3.3	905	Calm (0-5 mph)	1 RA 04 POG2 SW 141 - 905
11/1/2004	11:08	23.9	24.6	24	-0.6	902	Calm (0-5 mph)	1 RA 04 POG2 SW 142 - 902
11/1/2004	11:18	26.5	26.8	30	3.2	912	Calm (0-5 mph)	1 RA 04 POG2 SW 143 - 912
11/2/2004	8:41	19.3	17	20	3	905	Breezy (5-15 mph)	1 RA 04 POG2 SW 144 - 905
11/2/2004	8:49	18.3	16.2	19	2.8	902	Breezy (5-15 mph)	1 RA 04 POG2 SW 145 - 902
11/2/2004	8:59	34.4	35	39	4	912	Breezy (5-15 mph)	1 RA 04 POG2 SW 146 - 912
11/3/2004	9:04	8.5	11.2	12	0.8	905	Calm (0-5 mph)	1 RA 04 POG2 SW 147 - 905
11/3/2004	9:24	11.9	10.2	11	0.8	902	Calm (0-5 mph)	1 RA 04 POG2 SW 148 - 902
				11				1 RA 04 POG2 SW 148Dup - 902
11/3/2004	9:31	11.7	13.5	17	3.5	912	Calm (0-5 mph)	1 RA 04 POG2 SW 149 - 912
	9:33	11.7	12.6	<1.0		912		1 RA 04 POG2 SW 150RINSE - 912
11/4/2004	11:10	24	24.8	28	3.2	905	Mild Breeze (5-10 mph) with Gusts	1 RA 04 POG2 SW 151 - 905
11/4/2004	11:16	24.8	20.8	26	5.2	902	Mild Breeze (5-10 mph) with Gusts	1 RA 04 POG2 SW 152 - 902
11/4/2004	11:23	23.8	21.7	34	12.3	912	Mild Breeze (5-10 mph) with Gusts	1 RA 04 POG2 SW 153 - 912
11/5/2004	10:11	10.2	10.5	12	1.5	905	Breezy (5-15 mph)	1 RA 04 POG2 SW 154 - 905
11/5/2004	10:18	12.9	11.6	14	2.4	902	Breezy (5-15 mph)	1 RA 04 POG2 SW 155 - 902
11/5/2004	10:23	19.6	21	25	4	912	Breezy (5-15 mph)	1 RA 04 POG2 SW 156 - 912
11/8/2004	9:28	10.5	10.4	13	2.6	905	Calm (0-10 mph)	1 RA 04 POG2 SW 157 - 905
11/8/2004	9:38	11.6	10.9	13	2.1	902	Calm (0-10 mph)	1 RA 04 POG2 SW 158 - 902
11/8/2004	9:46	15	15.2	19	3.8	912	Calm (0-10 mph)	1 RA 04 POG2 SW 159 - 912
11/9/2004	9:23	9.9	10	13	3	905	Breezy (10-15 mph)	1 RA 04 POG2 SW 160 - 905
11/9/2004	9:39	13.8	10.7	13	2.3	902	Breezy (10-15 mph)	1 RA 04 POG2 SW 161 - 902
				13				1 RA 04 POG2 SW 162Dup - 902
11/9/2004	9:29	10.7	9.9	12	2.1	912	Breezy (10-15 mph)	1 RA 04 POG2 SW 163 - 912
				<0.25				1 RA 04 POG2 SW 164RINSE - 912
11/10/2004	9:06	20.3	24.2	30	5.8	905	Windy (15-20 mph)	1 RA 04 SP SW 164 - 905
11/10/2004	9:11	14.7	23.4	29	5.6	902	Windy (15-20 mph)	1 RA 04 SP SW 165 - 902
11/10/2004	9:17	20.7	21.1	24	2.9	912	Windy (15-20 mph)	1 RA 04 SP SW 166 - 912
11/11/2004	10:45	15.6	NA	30	14.4	905	Breezy (5-15 mph)	1 RA 04 SP SW 167 - 905
11/11/2004	10:50	13.6	NA	25	11.4	902	Breezy (5-15 mph)	1 RA 04 SP SW 168 - 902
11/11/2004	10:55	21.7	NA	27	5.3	912	Breezy (5-15 mph)	1 RA 04 SP SW 169 - 912
11/12/2004	11:25	13.8	17.2	20	2.8	905	Calm (0-5 mph)	1 RA 04 SP SW 170 - 905
11/12/2004	11:33	9.3	16.2	18	1.8	902	Calm (0-5 mph)	1 RA 04 SP SW 171 - 902
				19				1 RA 04 SP SW 171Dup - 902
11/12/2004	11:42	12	13.5	14	0.5	912	Calm (0-5 mph)	1 RA 04 SP SW 172 - 912
				<0.25				1 RA 04 SP SW 173RINSE - 912
11/15/2004	11:25	13.9	14.7	22	7.3	905	Calm (0-10 mph)	1 RA 04 SP SW 174 - 905
11/15/2004	11:30	11.2	18.9	28	9.1	902	Calm (0-10 mph)	1 RA 04 SP SW 175 - 902
11/15/2004	11:37	14	17.2	18	0.8	912	Calm (0-10 mph)	1 RA 04 SP SW 176 - 912
11/16/2004	9:21	13	16	20	4	905	Calm (0-5 mph)	1 RA 04 SP SW 177 - 905
11/16/2004	9:26	9.8	16.4	19	2.6	902	Calm (0-5 mph)	1 RA 04 SP SW 178 - 902
11/16/2004	9:31	14.6	15.6	18	2.4	912	Calm (0-5 mph)	1 RA 04 SP SW 179 - 912
11/17/2004	9:46	13.6	17	20	3	905	Very Calm (0-3 mph)	1 RA 04 SP SW 180 - 905
11/17/2004	10:01	14	19.6	20	0.4	902	Very Calm (0-3 mph)	1 RA 04 SP SW 181 - 902
				21				1 RA 04 SP SW 181Dup - 902
11/17/2004	10:11	15.3	16.7	19	2.3	912	Very Calm (0-3 mph)	1 RA 04 SP SW 182 - 912
				<0.25				1 RA 04 SP SW 183RINSE - 912
11/18/2004	10:14	14	15.6			905	Mild Breeze (5-10 mph)	1 RA 04 SP SW 184 - 905
11/18/2004	10:21	8.6	15			902	Mild Breeze (5-10 mph)	1 RA 04 SP SW 185 - 902
11/18/2004	10:30	14.7	15.2			912	Mild Breeze (5-10 mph)	1 RA 04 SP SW 186 - 912
11/22/2004	11:33	3	6.6			905	Breezy (5-15 mph)	1 RA 04 SP SW 187 - 905
11/22/2004	11:39	4.4	10.7			902	Breezy (5-15 mph)	1 RA 04 SP SW 188 - 902
11/22/2004	11:48	5.6	8.6			912	Breezy (5-15 mph)	1 RA 04 SP SW 189 - 912

[1] Sampling time approximate - readings collected on regular 15 minute intervals.

[2] Hand-held turbidity used in difference if available.

Data presented are Draft and Preliminary. These data have not undergone QA procedures and should not be viewed as final.

TSS/Turbidity Correlation
Data presented are Draft and Preliminary



Note: Includes data collected 8/30/04 - 11/17/04

*Data are hand held turbidity readings when available, otherwise telemetric reading sampled closest in time

J:\scopes\04G007\Effluent_SurfaceWater_Data\Preliminary\Turbidity_TSS_Corr.xls

Attachment 5

GW Partners
Lower Fox River - OU-1
04G007
Effluent Results - Draft and Preliminary

Date	Sample ID	TSS (mg/L)	BOD (mg/L)	Daily Flow (million gallons)[3]	Ammonia Nitrogen (mg/L)	Total PCBs (ug/L)	Mercury (Low-Level) (ng/L)
9/3/04	IRA04 DEWT EF1	21	-	-	<0.32	<0.26	-
9/7/04	IRA04 DEWT EF2	9.0	-	-	0.67	<0.24	-
9/9/04	IRA04 DEWT EF3	19	-	-	3.1	<0.24	-
9/10/04	IRA04 DEWT EF4	24	-	-	4.5	<0.32	-
9/11/04	IRA04 DEWT EF5	16	-	-	2.9	<0.25	-
9/13/04	IRA04 DEWT EF6	12	-	-	4.9	<0.26	-
9/15/04	IRA04 DEWT EF7	87	-	-	6.7	<0.25	-
9/16/04	IRA04 DEWT EF8	40	16	0.8	4.4	<0.25	-
9/17/04	IRA04 DEWT EF9	33	12	-	3.2	<0.25	-
9/17/04 Dup.	IRA04 DEWT EF9 DUP	31	-	-	3.1	-	-
9/20/04	IRA04 DEWT EF10	11	3.1	1.1	2.2	<0.26	-
9/20/04	IRA04 DEWT EF10 Dup	-	-	-	-	<0.25	-
9/21/04	IRA04 DEWT EF11	17	3.2	0.3	1.8	<0.25	-
9/21/04	IRA04 DEWT EF11 Dup	-	3.2	-	-	-	-
9/22/04	IRA04 DEWT EF12	17	6.6	0.4	1.5	<0.25	-
9/23/04	IRA04 DEWT EF13	20	3.4	1.0	1.5	<0.25	-
9/24/04	IRA04 DEWT EF14	18	3.1	0.4	1.4	<0.25	-
9/25/04	IRA04 DEWT EF15	19	<2.0	-	1.5	<0.25	-
9/27/04	IRA04 DEWT EF16	10	<2.0	0.6	1.7	<0.25	-
9/28/04	IRA04 DEWT EF17	11	4.2	0.7	1.5	<0.26	-
9/29/04	IRA04 DEWT EF18	13	4.4	0.6	1.4	<0.26	-
9/29/04	IRA04 DEWT EF18 Dup	10	4.3	-	1.4	<0.25	-
9/30/04	IRA04 DEWT EF19	11	5.4	0.5	1.4	<0.25	-
10/1/04	IRA04 DEWT EF20	12	5.9	0.8	<0.32	<0.25	-
10/2/04	IRA04 DEWT EF21	23	9.6	-	1.2	<0.24	-
10/4/04	-	-	-	0.6	-	-	-
10/5/04	IRA04 DEWT EF22	20	7.7	-	1.4	<0.25	-
10/7/04	IRA04 DEWT EF23	13	4.5	1.1	3.7	<0.24	-
10/8/04	IRA04 DEWT EF24	14	6.0	0.6	3.8	<0.25	-
10/9/04	IRA04 DEWT EF25	4.4	<2.0	-	4.9	<0.25	-
10/11/04	IRA04 DEWT EF26	3.3	<2.0	0.5	4.4	<0.25	-
10/12/04	IRA04 DEWT EF27	3.6	<2.0	0.2	4.7	<0.25	-
10/13/04	DEWT EF28	2.4	<2.0	0.5	5.1	<0.52	-
10/14/04	DEWT EF29	9.3	5.2	0.3	4.5	<0.25	-
10/14/04	DEWT EF29 Dup	-	-	-	4.5	-	-
10/15/04	DEWT EF30	10	8.0	-	3.9	-	-
10/18/04	-	-	-	0.7	-	-	-
10/19/04	DEWT EF31	10	7.6	0.6	8.8	<0.25	-
10/19/04	DEWT EF31 Dup.	10	7.4	-	-	<0.25	-
10/20/04	DEWT EF32	20	24	0.3	8.7	<0.25	-
10/21/04	DEWT EF33	12	14	0.6	12	<0.25	-
10/22/04	DEWT EF34	20	18	0.56	9.3	<0.25	-
10/23/04	DEWT EF35	6.5[Q]	6.9[H]	-	23	<0.25	-
10/24/04	DEWT EF36	<5.0[C]	3.2	0.34	28[N]	<0.25	-
10/26/04	DEWT EF37	3.8[Q]	3.6	0.3	34[N]	-	-
10/27/04	DEWT EF38	6.4[Q]	6.1	0.34	36	<0.28	-
10/28/04	DEWT EF39	6.4[Q]	4.0	0.31	39[N]	<0.25	3.25
10/28/04	DEWT EF39 TB	-	-	-	-	-	<0.197

GW Partners
Lower Fox River - OU-1
04G007
Effluent Results - Draft and Preliminary

Date	Sample ID	TSS (mg/L)	BOD (mg/L)	Daily Flow (million gallons)[3]	Ammonia Nitrogen (mg/L)	Total PCBs (ug/L)	Mercury (Low-Level) (ng/L)
10/29/04	DEWT EF40	8.2	4.3	0.5	35	<0.25	-
10/29/04	DEWT EF40 Dup.	6.8[Q]	4.3	-	42[N]	<0.25	-
10/30/04	DEWT EF41	5.6[Q]	2.8	0.5	36	<0.25	-
11/2/04	DEWT EF42	3.7	2.7	0.2	43	-	-
11/3/04	DEWT EF43	-	6.2	0.6	38	<0.25	-
11/4/04	DEWT EF44	11[Q]	12	0.47	24	<0.25	-
11/5/04	DEWT EF45	10	5.9	0.15	30	-	-
11/6/04	DEWT EF46	9	3.3	0.32	32	<0.25	2.05
11/7/04	DEWT EF46 TB	-	-	0	-	-	<0.197
11/8/04	DEWT EF47	-	-	0.059	34[N]	-	-
11/9/04	DEWT EF48	4.8	<2.0	0.49	-	<0.25	-
11/10/04	DEWT EF49	6	2.3	0.25	-	<0.26	2.6
11/10/04	DEWT EF49 DUP	5	2.1	-	-	-	-
11/10/04	DEWT EF49 FB	-	-	-	-	-	<0.197
11/10/04	DEWT EF49 TB	-	-	-	-	-	<0.97
11/17/04	DEWT EF50	1.1	<2.0	0.13	-	-	
Performance Expectation		5[1], 10[2]	10	1.2 - 1.7 (mgd)	67[4]	< 0.1 - 0.5	<0.2 to <0.5[5]

[1] Monthly average

[2] Daily maximum

[3] Daily flow measured from midnight to midnight through 10/26/04 then measured at approx 10:00 AM till 10:00 AM thereafter.

[4] Actual performance expectation is dependent on flow rate and pH of effluent. 67 mg/L is a conservative expectation.

[5] Previous Fox River dredging projects experienced effluents with low level mercury values ranging from nd to 6 ng/L.

[C] Elevated Detection Limit

[H] Preservatioin, extraction or analysis performed past hold time.

[N] Spiked Sample Recovery Not Within Control Limits.

[Q] Result between LOD and LOQ

Data received by 11/22/04
Data presented are Draft and Preliminary.
These data have not undergone QA procedures and should not be viewed as final.

DRAFT

Foth & Van Dyke

Memorandum

November 30, 2004

TO: Ben Hung, WDNR
Greg Hill, WDNR
Gary Kincaid, WDNR
Jim Hahnenberg, EPA
Boldt Oversight Team

CC: Bill Hartman, GW Partners
Amie Obermeier, GW Partners
Sherman LaViolette, CH2MHill
Mike Jury, CH2MHill
Tara Konkle, Foth & Van Dyke
Steve Laszewski, Foth & Van Dyke

FR: Jim Hutchison, Foth & Van Dyke

RE: OU1 2004 Environmental Monitoring Data – November 19 through November 26, 2004

Attached are monitoring data for the one week period beginning November 19, 2004 and ending November 26, 2004 for the environmental monitoring activities pursuant to the 2004 RA Work Plan, May, 2004 and subsequent addendum. If you have any questions or comments please contact Jim Hutchison at (920) 497 2500 or at jhutchison@foth.com. In addition to the weekly data summary, project data will be provided in a database format following completion of the 2004 RA work.

Data presented are draft and preliminary. These data have not undergone QA procedures and should not be viewed as final.

Air Monitoring Data:

Summary: Air sampling at the four meter locations was initiated on August 7, 2004. Sampling consisted of a 72 hour sampling event per week. Continuous sampling began on August 30, 2004. The air monitoring was temporarily shut down on Friday, November 19, 2004. The air monitoring will be restarted during dewatered sediment removal activities. No new laboratory samples have been received.

Surface Water Data:

Summary: River turbidity meters began operation on August 20, 2004 monitoring river turbidity (NTUs) every 15 minutes at three locations. The meters are located upstream (meter 912), downstream (meter 902) and far downstream (meter 905) of sand placement activities. During this monitoring period, sand placement was performed on 11/22/04 through 11/24/04. Generally the data show that the downstream turbidity has been within

acceptable limits of the upstream turbidity. **Please note the turbidity data graphs indicate dredging, no dredging and sand placement times.**

Attachment 1 - Graphs and Tabulation of Turbidity Data for Upstream, Downstream, Far Downstream and Upstream/Downstream Difference Graph

Field Surface Water Data

Summary: Field data includes hand held turbidity measurements and TSS sampling taken at the turbidity monitoring stations between August 30, 2004 and November 24, 2004. The correlation between TSS and turbidity to date (11/18/04) shows a correlation coefficient of 0.88.

Attachment 2 - S and Field Turbidity Data and TSS/Turbidity Correlation

Water Treatment Data:

Summary: The effluent water is being analyzed for TSS, PCBs, Ammonia and BOD. Low level mercury is also analyzed once per week. No new data has been received since the packet from last week (11/23/04).

Post-Dredge Bathymetric QA Summary

Summary: QA bathymetric data for Region VIII of Deposit A was included in the October 26, 2004 memorandum.

Sediment Sample Verification:

Summary: Post dredge sediment sample collection began on October 11, 2004 and finished on October 12, 2004 in Region IV of Deposit A. Post dredge sediment sample collection in Region VIII of Deposit A was completed on October 25, 2004. The sediment PCB results were included in the November 16, 2004 environmental data memorandum.

Sand Placement Verification:

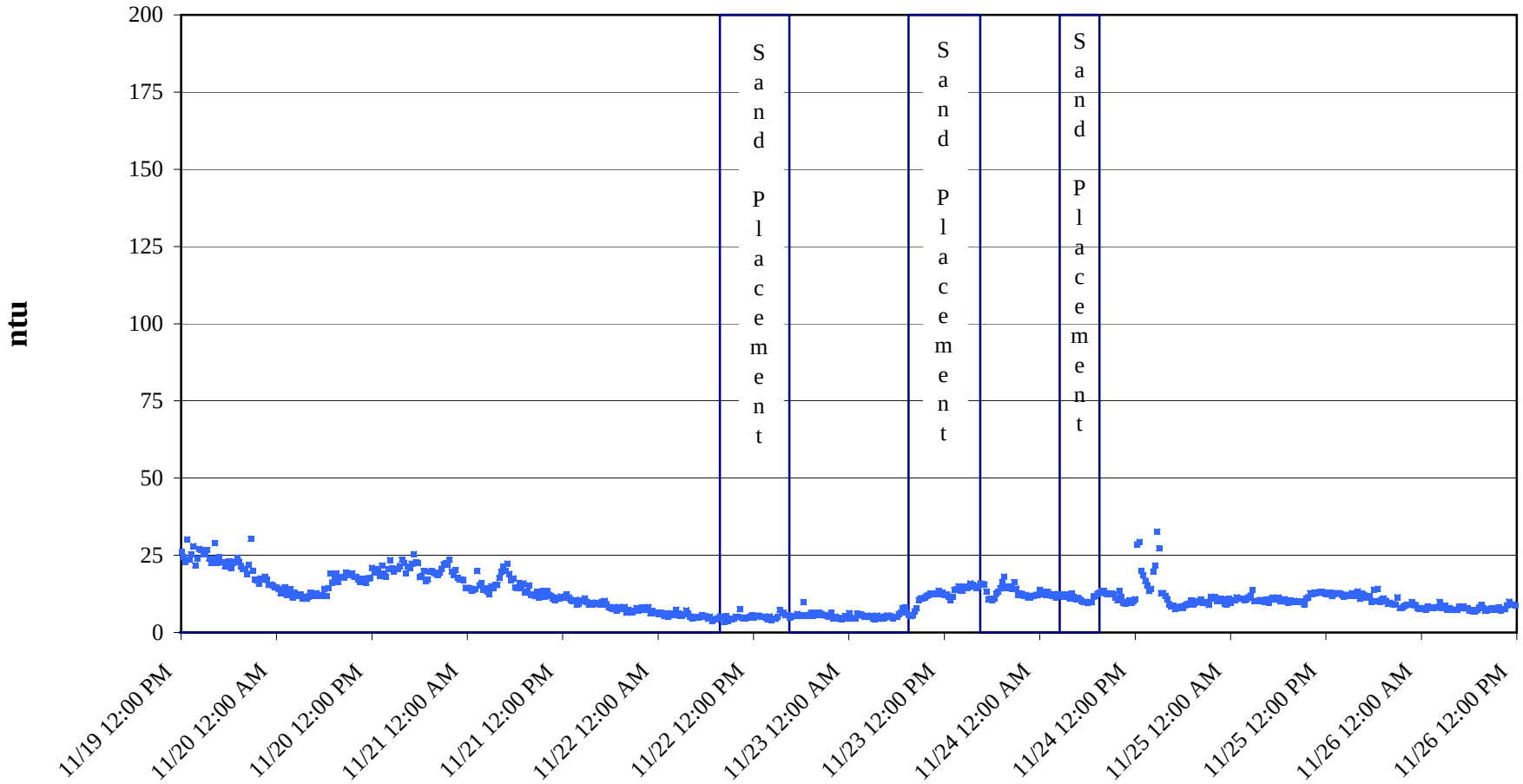
Summary: Sand placement was initiated on November 10, 2004. Verification of sand placement thickness has not been completed to date.

Attachment: None

Note: Transmitted when available, as this data will be obtained less frequently than other project environmental data.

Attachment 1

Upstream Turbidity - Meter 912



Upstream Turbidity - Meter 912

11/19/2004 12:01	26.201	11/20/2004 12:01	21	11/21/2004 12:01	11.3	11/22/2004 12:01	4.901	11/23/2004 12:01	12.101	11/24/2004 12:01	10.8	11/25/2004 12:01	12.5
11/19/2004 12:16	24.4	11/20/2004 12:16	19.5	11/21/2004 12:16	11.2	11/22/2004 12:16	5.501	11/23/2004 12:16	12.3	11/24/2004 12:16	28.5	11/25/2004 12:16	12.7
11/19/2004 12:31	22.9	11/20/2004 12:31	20.601	11/21/2004 12:31	12.3	11/22/2004 12:31	5.501	11/23/2004 12:31	11.601	11/24/2004 12:31	29.3	11/25/2004 12:31	13
11/19/2004 12:46	30.101	11/20/2004 12:46	20.101	11/21/2004 12:46	11.3	11/22/2004 12:46	5.301	11/23/2004 12:46	10.5	11/24/2004 12:46	20	11/25/2004 12:46	11.8
11/19/2004 13:01	23.701	11/20/2004 13:01	18.3	11/21/2004 13:01	10.5	11/22/2004 13:01	5.001	11/23/2004 13:01	11.601	11/24/2004 13:01	18.5	11/25/2004 13:01	12.5
11/19/2004 13:16	25.3	11/20/2004 13:16	21.701	11/21/2004 13:16	10.2	11/22/2004 13:16	5.101	11/23/2004 13:16	13.8	11/24/2004 13:16	16.701	11/25/2004 13:16	12.8
11/19/2004 13:31	28	11/20/2004 13:31	19.101	11/21/2004 13:31	10.5	11/22/2004 13:31	4.801	11/23/2004 13:31	14	11/24/2004 13:31	15.3	11/25/2004 13:31	12.8
11/19/2004 13:46	21.8	11/20/2004 13:46	18.101	11/21/2004 13:46	9.101	11/22/2004 13:46	4.201	11/23/2004 13:46	14.9	11/24/2004 13:46	13.4	11/25/2004 13:46	12.601
11/19/2004 14:01	24	11/20/2004 14:01	20.5	11/21/2004 14:01	9.3	11/22/2004 14:01	5.201	11/23/2004 14:01	13.7	11/24/2004 14:01	14.101	11/25/2004 14:01	12.2
11/19/2004 14:16	27.101	11/20/2004 14:16	23.5	11/21/2004 14:16	10.5	11/22/2004 14:16	4.001	11/23/2004 14:16	13.5	11/24/2004 14:16	19.701	11/25/2004 14:16	11.601
11/19/2004 14:31	26.701	11/20/2004 14:31	20.8	11/21/2004 14:31	10.101	11/22/2004 14:31	4.701	11/23/2004 14:31	14.8	11/24/2004 14:31	21.701	11/25/2004 14:31	12.2
11/19/2004 14:46	25.4	11/20/2004 14:46	19.8	11/21/2004 14:46	11.101	11/22/2004 14:46	4.401	11/23/2004 14:46	14.5	11/24/2004 14:46	32.701	11/25/2004 14:46	12.2
11/19/2004 15:01	25.4	11/20/2004 15:01	20.701	11/21/2004 15:01	10	11/22/2004 15:01	5.001	11/23/2004 15:01	14.601	11/24/2004 15:01	27.3	11/25/2004 15:01	11.9
11/19/2004 15:16	26.701	11/20/2004 15:16	20.601	11/21/2004 15:16	9.101	11/22/2004 15:16	7.301	11/23/2004 15:16	15.9	11/24/2004 15:16	12.8	11/25/2004 15:16	12.8
11/19/2004 15:31	23.9	11/20/2004 15:31	21.5	11/21/2004 15:31	9.601	11/22/2004 15:31	6.101	11/23/2004 15:31	15.4	11/24/2004 15:31	12.8	11/25/2004 15:31	11.9
11/19/2004 15:46	22.5	11/20/2004 15:46	23.601	11/21/2004 15:46	9.101	11/22/2004 15:46	6.401	11/23/2004 15:46	15	11/24/2004 15:46	11.9	11/25/2004 15:46	12.7
11/19/2004 16:01	23.8	11/20/2004 16:01	22.5	11/21/2004 16:01	9.5	11/22/2004 16:01	5.601	11/23/2004 16:01	14.4	11/24/2004 16:01	10.8	11/25/2004 16:01	13.3
11/19/2004 16:16	29	11/20/2004 16:16	19.201	11/21/2004 16:16	9.7	11/22/2004 16:16	5.701	11/23/2004 16:16	14.8	11/24/2004 16:16	9.2	11/25/2004 16:16	10.9
11/19/2004 16:31	22.701	11/20/2004 16:31	21.3	11/21/2004 16:31	9.3	11/22/2004 16:31	4.801	11/23/2004 16:31	15.8	11/24/2004 16:31	8.4	11/25/2004 16:31	12.601
11/19/2004 16:46	24.4	11/20/2004 16:46	20.9	11/21/2004 16:46	9.101	11/22/2004 16:46	5.201	11/23/2004 16:46	15.7	11/24/2004 16:46	8.601	11/25/2004 16:46	12.2
11/19/2004 17:01	22.8	11/20/2004 17:01	22.3	11/21/2004 17:01	10	11/22/2004 17:01	5.401	11/23/2004 17:01	15.601	11/24/2004 17:01	7.601	11/25/2004 17:01	11.3
11/19/2004 17:16	22.8	11/20/2004 17:16	25.4	11/21/2004 17:16	10.3	11/22/2004 17:16	5.401	11/23/2004 17:16	13.3	11/24/2004 17:16	7.901	11/25/2004 17:16	11.601
11/19/2004 17:31	21.5	11/20/2004 17:31	22.8	11/21/2004 17:31	9.2	11/22/2004 17:31	6.001	11/23/2004 17:31	10.7	11/24/2004 17:31	8.3	11/25/2004 17:31	11.8
11/19/2004 17:46	22.5	11/20/2004 17:46	22.4	11/21/2004 17:46	8.3	11/22/2004 17:46	5.601	11/23/2004 17:46	10.9	11/24/2004 17:46	8.4	11/25/2004 17:46	9.9
11/19/2004 18:01	23	11/20/2004 18:01	17.9	11/21/2004 18:01	7.901	11/22/2004 18:01	5.301	11/23/2004 18:01	10.4	11/24/2004 18:01	8	11/25/2004 18:01	13.9
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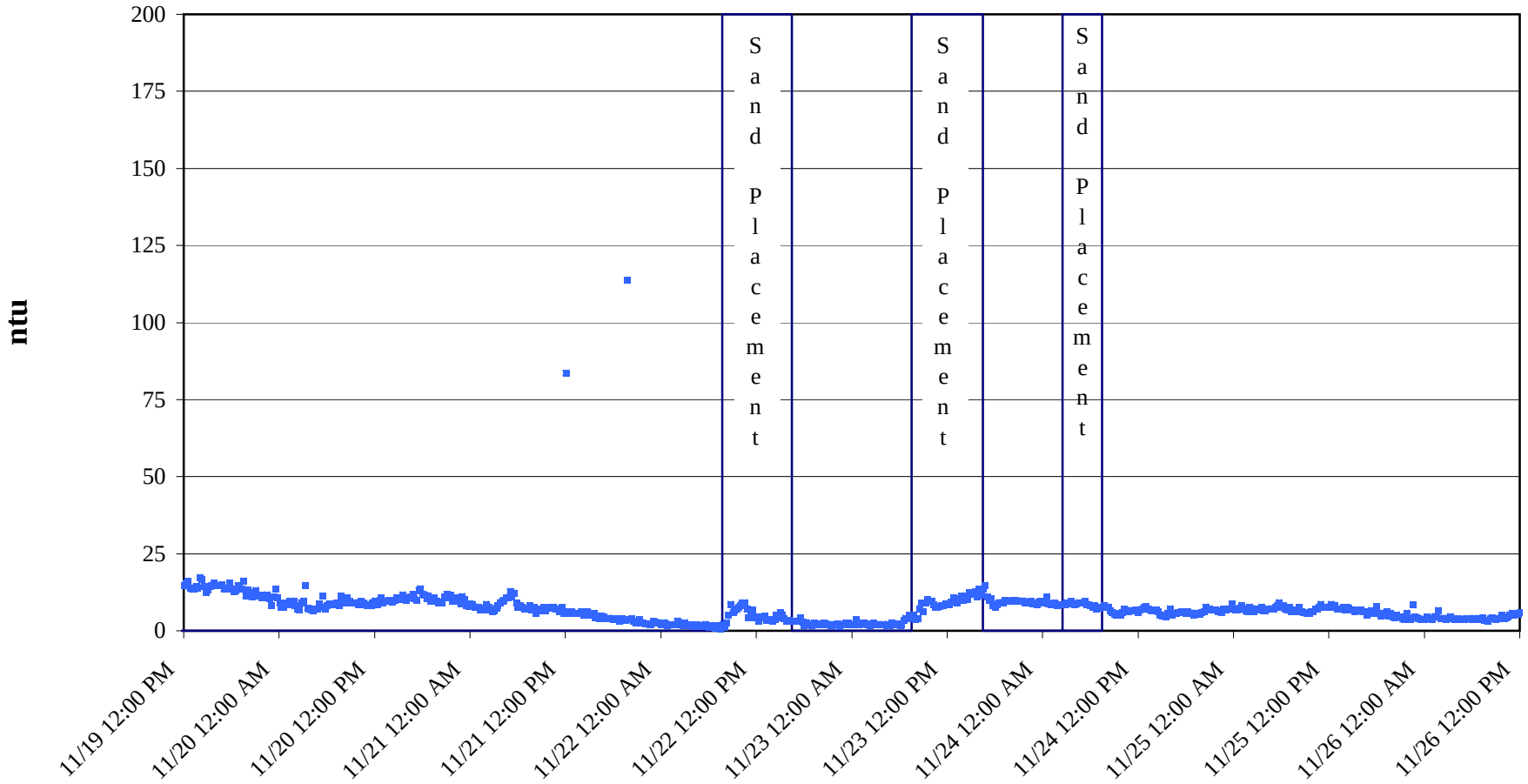
Downstream Turbidity - Meter 902



Downstream Turbidity - Meter 902

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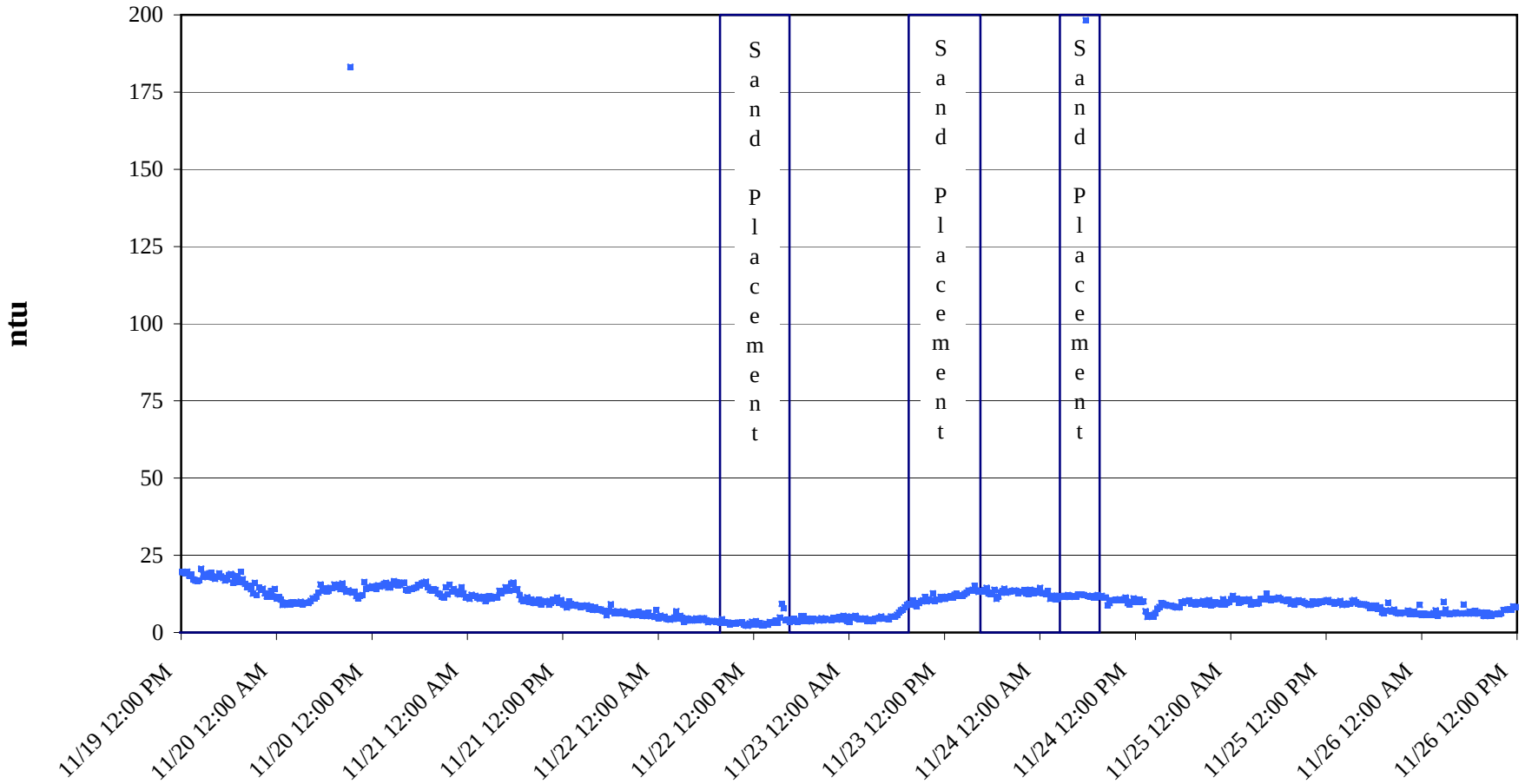
Far Downstream Turbidity - Meter 905



Far Downstream Turbidity - Meter 905

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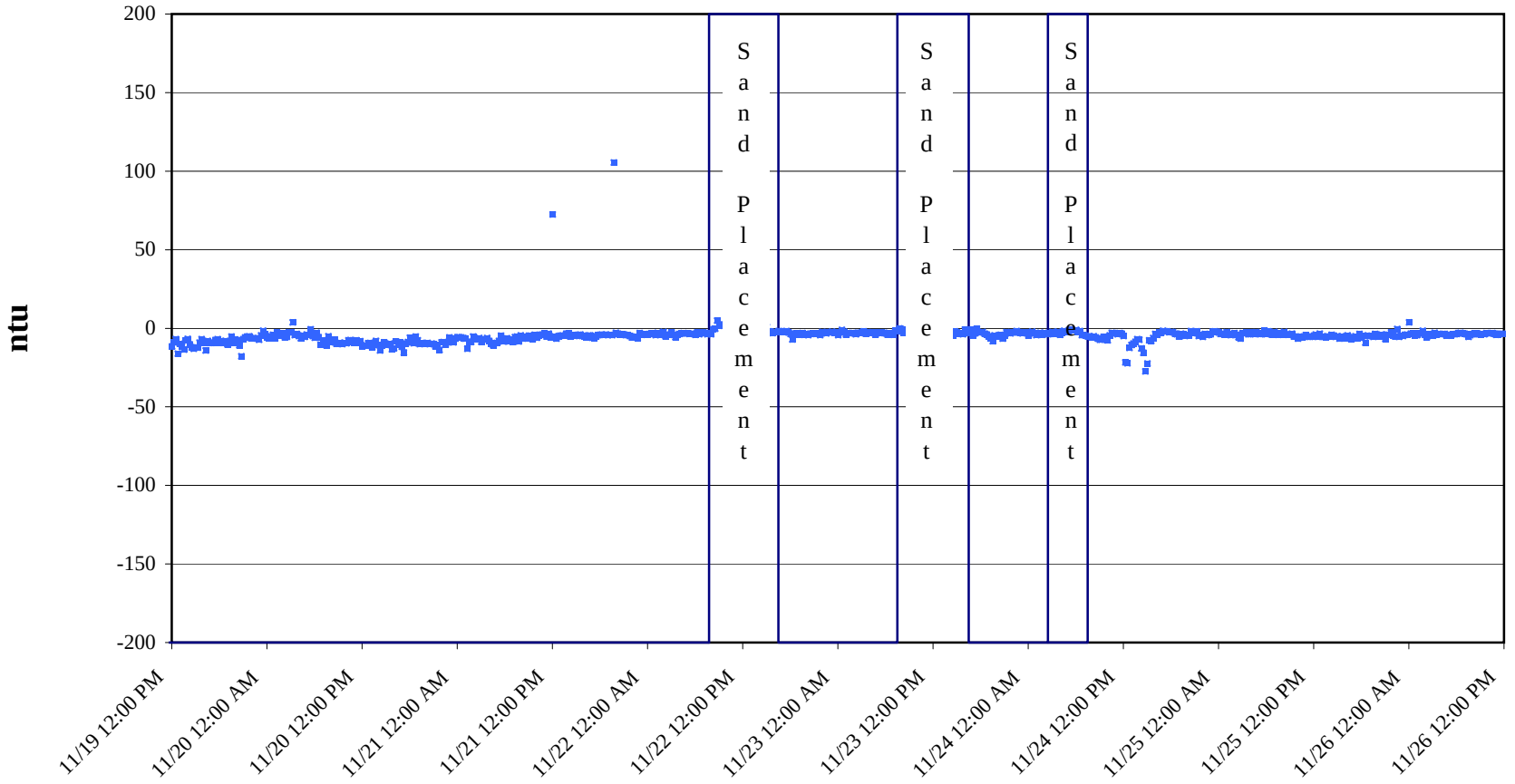
11/20/2004 10:46	12.101	11/21/2004 10:46	10.601	11/22/2004 10:46	2.6	11/23/2004 10:46	10.2	11/24/2004 10:46	11.3	11/25/2004 10:46	9.3	11/26/2004 10:46	7.501
11/20/2004 11:01	16.4	11/21/2004 11:01	10.2	11/22/2004 11:01	2.3	11/23/2004 11:01	10.7	11/24/2004 11:01	9.5	11/25/2004 11:01	9.601	11/26/2004 11:01	7.601
11/20/2004 11:16	14.2	11/21/2004 11:16	11.3	11/22/2004 11:16	2.201	11/23/2004 11:16	10.601	11/24/2004 11:16	9.101	11/25/2004 11:16	10.101	11/26/2004 11:16	7.501
11/20/2004 11:31	14.601	11/21/2004 11:31	9.601	11/22/2004 11:31	3	11/23/2004 11:31	11.5	11/24/2004 11:31	10	11/25/2004 11:31	10	11/26/2004 11:31	8.5
11/20/2004 11:46	14.5	11/21/2004 11:46	10.5	11/22/2004 11:46	3.5	11/23/2004 11:46	10.9	11/24/2004 11:46	11.101	11/25/2004 11:46	10.2	11/26/2004 11:46	8.3
												11/26/2004 12:01	8.7

Turbidity
Downstream/Upstream Difference
(Downstream Minus Upstream)



Attachment 2

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Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
8/30/2004	13:47	19.8	19	25	6	912	Calm (0-5 mph)	1 RA 04 DEWT SW 1 - 912
8/30/2004	13:54	19.1	24	22	-2	902	Calm (0-5 mph)	1 RA 04 DEWT SW 2 - 902
8/30/2004	14:01	20.1	18	23	5	905	Calm (0-5 mph)	1 RA 04 DEWT SW 3 - 905
8/31/2004	19:32	12.0	13.5	15	1.5	912	Calm (0-5 mph)	1 RA 04 DEWT SW 4 - 912
8/31/2004	19:40	18.2	23	25	2	902	Calm (0-5 mph)	1 RA 04 DEWT SW 5 - 902
				24				1 RA 04 DEWT SW 5Dup - 902
8/31/2004	19:47	12.8	13.5	17	3.5	905	Calm (0-5 mph)	1 RA 04 DEWT SW 6 - 905
				<1.0				1 RA 04 DEWT SW 7RINSE - 905
9/1/2004	12:56	24.2	23	28	5	912	Calm (0-5 mph)	1 RA 04 DEWT SW 8 - 912
9/1/2004	13:08	51.1	39	36	-3	902	Calm (0-5 mph)	1 RA 04 DEWT SW 9 - 902
9/1/2004	13:15	22.8	21.6	25	3.4	905	Calm (0-5 mph)	1 RA 04 DEWT SW 10 - 905
9/2/2004	12:16	22.4	23	26	3	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 11 - 912
9/2/2004	12:31	34.4	35	41	6	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 12 - 902
9/2/2004	12:44	33.3	30	31	1	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 13 - 905
9/3/2004	11:55	21.1	18	20	2	912	Calm (0-10 mph)	1 RA 04 DEWT SW 14 - 912
9/3/2004	12:05	39.7	30	28	-2	902	Calm (0-10 mph)	1 RA 04 DEWT SW 15 - 902
				28				1 RA 04 DEWT SW 15Dup - 902
9/3/2004	12:13	16.6	18	20	2	905	Calm (0-10 mph)	1 RA 04 DEWT SW 16 - 905
				<1.0				1 RA 04 DEWT SW 16RINSE - 905
9/7/2004	7:22	20	32.6		NA	902	Calm (0-10 mph)	NA
9/7/2004	7:26	20.7	33		NA	905	Calm (0-10 mph)	NA
9/7/2004	7:51	15.5	28.5		NA	912	Calm (0-10 mph)	NA
9/7/2004	11:52	18.7		24	5.3	912	Calm (0-10 mph)	1 RA 04 DEWT SW 18 - 912
9/7/2004	12:07	25		29	4	902	Calm (0-10 mph)	1 RA 04 DEWT SW 19 - 902
9/7/2004	12:15	22.7		23	0.3	905	Calm (0-10 mph)	1 RA 04 DEWT SW 20 - 905
9/8/2004	11:39	51.3		58	6.7	912	Windy (15-20 mph)	1 RA 04 DEWT SW 21 - 912
9/8/2004	11:50	36		42	6	902	Windy (15-20 mph)	1 RA 04 DEWT SW 22 - 902
9/8/2004	11:56	39.9		48	8.1	905	Windy (15-20 mph)	1 RA 04 DEWT SW 23 - 905
9/9/2004	11:11	31.8	33	25	-8	912	Calm (0-5 mph)	1 RA 04 DEWT SW 24 - 912
9/9/2004	11:20	24	26	25	-1	902	Calm (0-5 mph)	1 RA 04 DEWT SW 25 - 902
9/9/2004	11:35	23.2	26	24	-2	905	Calm (0-5 mph)	1 RA 04 DEWT SW 26 - 905
9/10/2004	9:36	23.5	26	21	-5	912	Windy (10-20 mph)	1 RA 04 DEWT SW 27 - 912
9/10/2004	9:48	1100	35	22	-13	902	Windy (10-20 mph)	1 RA 04 DEWT SW 28 - 902
				23				1 RA 04 DEWT SW 28Dup - 902
9/10/2004	10:00	657	30	24	-6	905	Windy (10-20 mph)	1 RA 04 DEWT SW 29 - 905
				<1.0				1 RA 04 DEWT SW 30RINSE - 905
9/11/2004	9:43	23	30	21	-9	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 31 - 912
9/11/2004	9:53	21.7	32	24	-8	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 32 - 902
9/11/2004	10:01	44.1	33	27	-6	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 33 - 905
9/14/2004	10:43	18.8	20.5	23	2.5	912	Windy (10-20 mph)	1 RA 04 000A SW 34 - 912
9/14/2004	10:52	20	18.6	22	3.4	902	Windy (10-20 mph)	1 RA 04 000A SW 35 - 902
9/14/2004	11:01	16	16.8	21	4.2	905	Windy (10-20 mph)	1 RA 04 000A SW 36 - 905
9/15/2004	11:16	36.9	35.9	16	-19.9	912	Windy (15-25 mph)	1 RA 04 000A SW 37 - 912
9/15/2004	11:31	23.9	23	26	3	902	Windy (15-25 mph)	1 RA 04 000A SW 38 - 902
9/15/2004	11:45	24.9	25.5	26	0.5	905	Windy (15-25 mph)	1 RA 04 000A SW 39 - 905
9/16/2004	9:30	36	36	44	8	912	Breezy (5-15 mph)	1 RA 04 000A SW 40 - 912
9/16/2004	9:55	26	26	28	2	902	Breezy (5-15 mph)	1 RA 04 000A SW 41 - 902
				27				1 RA 04 000A SW 41Dup - 902
9/16/2004	10:03	34.5	34.5	34	-0.5	905	Breezy (5-15 mph)	1 RA 04 000A SW 42 - 905
				<1.0				1 RA 04 000A SW 43RINSE - 905
9/17/2004	10:32	18.2	36	15	-21	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 44 - 912
9/17/2004	10:58	17.6	17	16	-1	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 45 - 902
9/17/2004	11:08	15.3	17	14	-3	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 46 - 905
9/20/2004	12:57	39.2	36	45	9	912	Breezy (5-15 mph)	1 RA 04 000A SW 47 - 912
9/20/2004	12:31	32.4	37	35	-2	902	Breezy (5-15 mph)	1 RA 04 000A SW 48 - 902
				35				1 RA 04 000A SW 48Dup - 902
9/20/2004	12:22	31.7	36	36	0	905	Breezy (5-15 mph)	1 RA 04 000A SW 49 - 905
				1.2				1 RA 04 000A SW 50RINSE - 905
9/21/2004	10:08	39.4	38	40	2	905	Breezy (5-15 mph)	1 RA 04 000A SW 51 - 905
9/21/2004	10:21	35.4	42	38	-4	902	Breezy (5-15 mph)	1 RA 04 000A SW 52 - 902
9/21/2004	10:35	41.7	36	52	16	912	Breezy (5-15 mph)	1 RA 04 000A SW 53 - 912
9/22/2004	10:13	21.8	24	22	-2	905	Calm (0-5 mph)	1 RA 04 000A SW 54 - 905
9/22/2004	10:23	21.3	23	24	1	902	Calm (0-5 mph)	1 RA 04 000A SW 55 - 902
9/22/2004	10:38	18.5	36	28	-8	912	Calm (0-5 mph)	1 RA 04 000A SW 56 - 912
9/23/2004	11:11	15.1	19	16	-3	905	Breezy (5-15 mph)	1 RA 04 000A SW 57 - 905
9/23/2004	11:23	31.7	20	19	-1	902	Breezy (5-15 mph)	1 RA 04 000A SW 58 - 902
9/23/2004	12:17	26.6	27	29	2	912	Breezy (5-15 mph)	1 RA 04 000A SW 59 - 912
9/24/2004	9:35	18.2	19.5	22	2.5	905	Calm (0-5 mph)	1 RA 04 000A SW 60 - 905
9/24/2004	9:44	34.8	27.8	30	2.2	902	Calm (0-5 mph)	1 RA 04 000A SW 61 - 902
				30				1 RA 04 000A SW 61Dup - 902
9/24/2004	10:02	39.1	47	72	25	912	Calm (0-5 mph)	1 RA 04 000A SW 62 - 912
				1.3				1 RA 04 000A SW 63RINSE - 912

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
9/27/2004	11:10	11.6	12.5	14	1.5	905	Calm (0-5 mph)	1 RA 04 000A SW 64 - 905
9/27/2004	11:21	53.1	16.5	16	-0.5	902	Calm (0-5 mph)	1 RA 04 000A SW 65 - 902
9/27/2004	11:36	14.3	20	22	2	912	Calm (0-5 mph)	1 RA 04 000A SW 66 - 912
9/27/2004	11:46	11.6			NA	902	Calm (0-5 mph)	NA
9/27/2004	13:01	17.2			NA	902	Calm (0-5 mph)	NA
9/28/2004	11:31	33.9	38	32	-6	905	Windy (15-20 mph)	1 RA 04 000A SW 67 - 905
9/28/2004	11:38	38.7	41	33	-8	902	Windy (15-20 mph)	1 RA 04 000A SW 68 - 902
				33				1 RA 04 000A SW 68Dup - 902
9/28/2004	11:48	33.4	34	44	10	912	Windy (15-20 mph)	1 RA 04 000A SW 69 - 912
				1.2				1 RA 04 000A SW 70RINSE - 912
9/29/2004	11:38	17.3	20.5	20	-0.5	905	Calm (0-5 mph)	1 RA 04 000A SW 71 - 905
9/29/2004	11:46	19.3	27.8	23	-4.8	902	Calm (0-5 mph)	1 RA 04 000A SW 72 - 902
9/29/2004	12:22	14.2	14.5	33	18.5	912	Calm (0-5 mph)	1 RA 04 000A SW 73 - 912
9/29/2004	12:31	14.3			NA	902	Calm (0-5 mph)	NA
9/30/2004	10:20	24.6		24	-0.6	905	Calm (0-5 mph)	1 RA 04 000A SW 74 - 905
9/30/2004	10:30	18.6		22	3.4	902	Calm (0-5 mph)	1 RA 04 000A SW 75 - 902
9/30/2004	10:50	11.3		19	7.7	912	Calm (0-5 mph)	1 RA 04 000A SW 76 - 912
10/1/2004	10:34	24.9	27	22	-5	905	Breezy (10-15 mph)	1 RA 04 000A SW 77 - 905
10/1/2004	10:45	31.8	38	35	-3	902	Breezy (10-15 mph)	1 RA 04 000A SW 78 - 902
				34				1 RA 04 000A SW 78Dup - 902
10/1/2004	11:03	34	34	34	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 79 - 912
				<1.0				1 RA 04 000A SW 80RINSE - 912
10/4/2004	10:21	31.2	21.5	27	5.5	905	Breezy (10-15 mph)	1 RA 04 000A SW 81 - 905
10/4/2004	10:27	27.5	22.2	28	5.8	902	Breezy (10-15 mph)	1 RA 04 000A SW 82 - 902
10/4/2004	10:58	32.7	34	34	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 83 - 912
10/6/2004	9:09	24.5	22	26	4	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 84 - 905
10/6/2004	9:24	25.5	22	24	2	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 85 - 902
				22				1 RA 04 000A SW 85Dup - 902
10/6/2004	9:49	29	26	31	5	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 86 - 912
				<2.0				1 RA 04 000A SW 87RINSE - 912
10/7/2004	9:55	24.6	24	22	-2	905	Calm (0-7 mph)	1 RA 04 000A SW 88 - 905
10/7/2004	10:11	19.9	23	23	0	902	Calm (0-7 mph)	1 RA 04 000A SW 89 - 902
10/7/2004	10:34	72.9	70	90	20	912	Calm (0-7 mph)	1 RA 04 000A SW 90 - 912
10/8/2004	11:24	75.5	85	55	-30	905	Calm (0-8 mph)	1 RA 04 000A SW 91 - 905
10/8/2004	11:38	66.6	66	54	-12	902	Calm (0-8 mph)	1 RA 04 000A SW 92 - 902
10/8/2004	11:54	83.1	91	150	59	912	Calm (0-8 mph)	1 RA 04 000A SW 93 - 912
10/11/2004	10:36	45.9	46	29	-17	905	Calm (0-5 mph)	1 RA 04 000A SW 94 - 905
10/11/2004	10:58	40	43	32	-11	902	Calm (0-5 mph)	1 RA 04 000A SW 95 - 902
10/11/2004	11:18	72.1	90	85	-5	912	Calm (0-5 mph)	1 RA 04 000A SW 96 - 912
10/12/2004	12:27	28.3	27	28	1	905	Very Calm (0-3 mph)	1 RA 04 000A SW 97 - 905
10/12/2004	12:35	24.1	30	86	56	902	Very Calm (0-3 mph)	1 RA 04 000A SW 98 - 902
				62				1 RA 04 000A SW 98Dup - 902
10/12/2004	12:49	95.4	90	130	40	912	Very Calm (0-3 mph)	1 RA 04 000A SW 99 - 912
				<2.0				1 RA 04 000A SW 100RINSE - 912
10/13/2004	10:01	13.4	23	17	-6	905	Very Calm (0-3 mph)	1 RA 04 000A SW 101 - 905
10/13/2004	10:16	31.3	38	17	-21	902	Very Calm (0-3 mph)	1 RA 04 000A SW 102 - 902
10/13/2004	10:31	62.4	81	55	-26	912	Very Calm (0-3 mph)	1 RA 04 000A SW 103 - 912
10/14/2004	8:57	50.6	46	38	-8	905	Breezy (10-15 mph)	1 RA 04 000A SW 104 - 905
10/14/2004	9:05	52.3	45	42	-3	902	Breezy (10-15 mph)	1 RA 04 000A SW 105 - 902
10/14/2004	9:23	177.1	160	160	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 106 - 912
10/18/2004	9:35	16.9	17	17	0	905	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 107 - 905
10/18/2004	9:45	15.2	17.8	18	0.2	902	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 108 - 902
10/18/2004	9:54	17.4	21.5	16	-5.5	912	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 109 - 912
10/19/2004	9:49	25.1	21	24	3	905	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 110 - 905
10/19/2004	9:29	15.3	16.5	17	0.5	902	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 111 - 902
				17				1 RA 04 POG2 SW 111Dup - 902
10/19/2004	9:21	17.7	16	13	-3	912	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 112 - 912
				<2.0				1 RA 04 POG2 SW 113RINSE - 912
10/20/2004	9:35	13.4	13.2	14	0.8	905	Very Calm (0-3 mph)	1 RA 04 POG2 SW 114 - 905
10/20/2004	9:46	15	14.5	15	0.5	902	Very Calm (0-3 mph)	1 RA 04 POG2 SW 115 - 902
10/20/2004	9:55	17.3	17.3	17	-0.3	912	Very Calm (0-3 mph)	1 RA 04 POG2 SW 116 - 912
10/21/2004	11:47	10.5	13	13	0	905	Calm (0-7 mph)	1 RA 04 POG2 SW 117 - 905
10/21/2004	12:01	13.6	13.3	14	0.7	902	Calm (0-7 mph)	1 RA 04 POG2 SW 118 - 902
10/21/2004	12:16	18.5	15.5	18	2.5	912	Calm (0-7 mph)	1 RA 04 POG2 SW 119 - 912
10/22/2004	9:54	25.2	24.8	27	2.2	905	Breezy (10-15 mph)	1 RA 04 POG2 SW 120 - 905
10/22/2004	10:00	20.1	21.9	24	3.9	902	Breezy (10-15 mph)	1 RA 04 POG2 SW 121 - 902
				24				1 RA 04 POG2 SW 121Dup - 902
10/22/2004	10:14	18.1	21.5	19	-2.5	912	Breezy (10-15 mph)	1 RA 04 POG2 SW 122 - 912
				<2.0				1 RA 04 POG2 SW 123RINSE - 912
10/25/2004	9:16	25	26	30	4	905	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 124 - 905
10/25/2004	9:24	19.2	21	22	1	902	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 125 - 902
10/25/2004	9:37	30.6	32.2	32	-0.2	912	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 126 - 912

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
10/26/2004	10:31	19.2	19.2	27	7.8	905	Windy (10-20 mph)	1 RA 04 POG2 SW 127 - 905
10/26/2004	10:40	30.2	29.9	35	5.1	902	Windy (10-20 mph)	1 RA 04 POG2 SW 128 - 902
				34				1 RA 04 POG2 SW 128Dup - 902
10/26/2004	10:50	25.8	26.9	29	2.1	912	Windy (10-20 mph)	1 RA 04 POG2 SW 129 - 912
				<1.0				1 RA 04 POG2 SW 130RINSE - 912
10/27/2004	8:40	17.7	18.8	20	1.2	905	Windy (10-20 mph)	1 RA 04 POG2 SW 131 - 905
10/27/2004	8:52	25.2	24	28	4	902	Windy (10-20 mph)	1 RA 04 POG2 SW 132 - 902
10/27/2004	9:03	29.8	28.7	30	1.3	912	Windy (10-20 mph)	1 RA 04 POG2 SW 133 - 912
10/28/2004	9:01	14.4	14	17	3	905	Calm (0-10 mph)	1 RA 04 POG2 SW 134 - 905
10/28/2004	9:07	15.1	14.4	17	2.6	902	Calm (0-10 mph)	1 RA 04 POG2 SW 135 - 902
10/28/2004	9:21	19.8	17.5	18	0.5	912	Calm (0-10 mph)	1 RA 04 POG2 SW 136 - 912
10/29/2004	10:56	36.4	34.8	43	8.2	905	Calm (0-5 mph)	1 RA 04 POG2 SW 137 - 905
10/29/2004	11:03	33.2	31.2	37	5.8	902	Calm (0-5 mph)	1 RA 04 POG2 SW 138 - 902
				34				1 RA 04 POG2 SW 138Dup - 902
10/29/2004	11:16	23.6	24.4	24	-0.4	912	Calm (0-5 mph)	1 RA 04 POG2 SW 139 - 912
				<1.0				1 RA 04 POG2 SW 140RINSE - 912
11/1/2004	11:01	19.9	21.7	25	3.3	905	Calm (0-5 mph)	1 RA 04 POG2 SW 141 - 905
11/1/2004	11:08	23.9	24.6	24	-0.6	902	Calm (0-5 mph)	1 RA 04 POG2 SW 142 - 902
11/1/2004	11:18	26.5	26.8	30	3.2	912	Calm (0-5 mph)	1 RA 04 POG2 SW 143 - 912
11/2/2004	8:41	19.3	17	20	3	905	Breezy (5-15 mph)	1 RA 04 POG2 SW 144 - 905
11/2/2004	8:49	18.3	16.2	19	2.8	902	Breezy (5-15 mph)	1 RA 04 POG2 SW 145 - 902
11/2/2004	8:59	34.4	35	39	4	912	Breezy (5-15 mph)	1 RA 04 POG2 SW 146 - 912
11/3/2004	9:04	8.5	11.2	12	0.8	905	Calm (0-5 mph)	1 RA 04 POG2 SW 147 - 905
11/3/2004	9:24	11.9	10.2	11	0.8	902	Calm (0-5 mph)	1 RA 04 POG2 SW 148 - 902
				11				1 RA 04 POG2 SW 148Dup - 902
11/3/2004	9:31	11.7	13.5	17	3.5	912	Calm (0-5 mph)	1 RA 04 POG2 SW 149 - 912
	9:33	11.7	12.6	<1.0		912		1 RA 04 POG2 SW 150RINSE - 912
11/4/2004	11:10	24	24.8	28	3.2	905	Mild Breeze (5-10 mph) with Gusts	1 RA 04 POG2 SW 151 - 905
11/4/2004	11:16	24.8	20.8	26	5.2	902	Mild Breeze (5-10 mph) with Gusts	1 RA 04 POG2 SW 152 - 902
11/4/2004	11:23	23.8	21.7	34	12.3	912	Mild Breeze (5-10 mph) with Gusts	1 RA 04 POG2 SW 153 - 912
11/5/2004	10:11	10.2	10.5	12	1.5	905	Breezy (5-15 mph)	1 RA 04 POG2 SW 154 - 905
11/5/2004	10:18	12.9	11.6	14	2.4	902	Breezy (5-15 mph)	1 RA 04 POG2 SW 155 - 902
11/5/2004	10:23	19.6	21	25	4	912	Breezy (5-15 mph)	1 RA 04 POG2 SW 156 - 912
11/8/2004	9:28	10.5	10.4	13	2.6	905	Calm (0-10 mph)	1 RA 04 POG2 SW 157 - 905
11/8/2004	9:38	11.6	10.9	13	2.1	902	Calm (0-10 mph)	1 RA 04 POG2 SW 158 - 902
11/8/2004	9:46	15	15.2	19	3.8	912	Calm (0-10 mph)	1 RA 04 POG2 SW 159 - 912
11/9/2004	9:23	9.9	10	13	3	905	Breezy (10-15 mph)	1 RA 04 POG2 SW 160 - 905
11/9/2004	9:39	13.8	10.7	13	2.3	902	Breezy (10-15 mph)	1 RA 04 POG2 SW 161 - 902
				13				1 RA 04 POG2 SW 162Dup - 902
11/9/2004	9:29	10.7	9.9	12	2.1	912	Breezy (10-15 mph)	1 RA 04 POG2 SW 163 - 912
				<0.25				1 RA 04 POG2 SW 164RINSE - 912
11/10/2004	9:06	20.3	24.2	30	5.8	905	Windy (15-20 mph)	1 RA 04 SP SW 164 - 905
11/10/2004	9:11	14.7	23.4	29	5.6	902	Windy (15-20 mph)	1 RA 04 SP SW 165 - 902
11/10/2004	9:17	20.7	21.1	24	2.9	912	Windy (15-20 mph)	1 RA 04 SP SW 166 - 912
11/11/2004	10:45	15.6	NA	30	14.4	905	Breezy (5-15 mph)	1 RA 04 SP SW 167 - 905
11/11/2004	10:50	13.6	NA	25	11.4	902	Breezy (5-15 mph)	1 RA 04 SP SW 168 - 902
11/11/2004	10:55	21.7	NA	27	5.3	912	Breezy (5-15 mph)	1 RA 04 SP SW 169 - 912
11/12/2004	11:25	13.8	17.2	20	2.8	905	Calm (0-5 mph)	1 RA 04 SP SW 170 - 905
11/12/2004	11:33	9.3	16.2	18	1.8	902	Calm (0-5 mph)	1 RA 04 SP SW 171 - 902
				19				1 RA 04 SP SW 171Dup - 902
11/12/2004	11:42	12	13.5	14	0.5	912	Calm (0-5 mph)	1 RA 04 SP SW 172 - 912
				<0.25				1 RA 04 SP SW 173RINSE - 912
11/15/2004	11:25	13.9	14.7	22	7.3	905	Calm (0-10 mph)	1 RA 04 SP SW 174 - 905
11/15/2004	11:30	11.2	18.9	28	9.1	902	Calm (0-10 mph)	1 RA 04 SP SW 175 - 902
11/15/2004	11:37	14	17.2	18	0.8	912	Calm (0-10 mph)	1 RA 04 SP SW 176 - 912
11/16/2004	9:21	13	16	20	4	905	Calm (0-5 mph)	1 RA 04 SP SW 177 - 905
11/16/2004	9:26	9.8	16.4	19	2.6	902	Calm (0-5 mph)	1 RA 04 SP SW 178 - 902
11/16/2004	9:31	14.6	15.6	18	2.4	912	Calm (0-5 mph)	1 RA 04 SP SW 179 - 912
11/17/2004	9:46	13.6	17	20	3	905	Very Calm (0-3 mph)	1 RA 04 SP SW 180 - 905
11/17/2004	10:01	14	19.6	20	0.4	902	Very Calm (0-3 mph)	1 RA 04 SP SW 181 - 902
				21				1 RA 04 SP SW 181Dup - 902
11/17/2004	10:11	15.3	16.7	19	2.3	912	Very Calm (0-3 mph)	1 RA 04 SP SW 182 - 912
				<0.25				1 RA 04 SP SW 183RINSE - 912
11/18/2004	10:14	14	15.6	17	1.4	905	Mild Breeze (5-10 mph)	1 RA 04 SP SW 184 - 905
11/18/2004	10:21	8.6	15	20	5	902	Mild Breeze (5-10 mph)	1 RA 04 SP SW 185 - 902
11/18/2004	10:30	14.7	15.2	16	0.8	912	Mild Breeze (5-10 mph)	1 RA 04 SP SW 186 - 912
11/22/2004	11:33	3	6.6			905	Breezy (5-15 mph)	1 RA 04 SP SW 187 - 905
11/22/2004	11:39	4.4	10.7			902	Breezy (5-15 mph)	1 RA 04 SP SW 188 - 902
11/22/2004	11:48	5.6	8.6			912	Breezy (5-15 mph)	1 RA 04 SP SW 189 - 912
11/23/2004	12:54	11.3	15.3			905	Breezy (10-15 mph)	1 RA 04 SP SW 190 - 905
11/23/2004	13:00	10.4	17.5			902	Breezy (10-15 mph)	1 RA 04 SP SW 191 - 902
								1 RA 04 SP SW 191Dup - 902

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

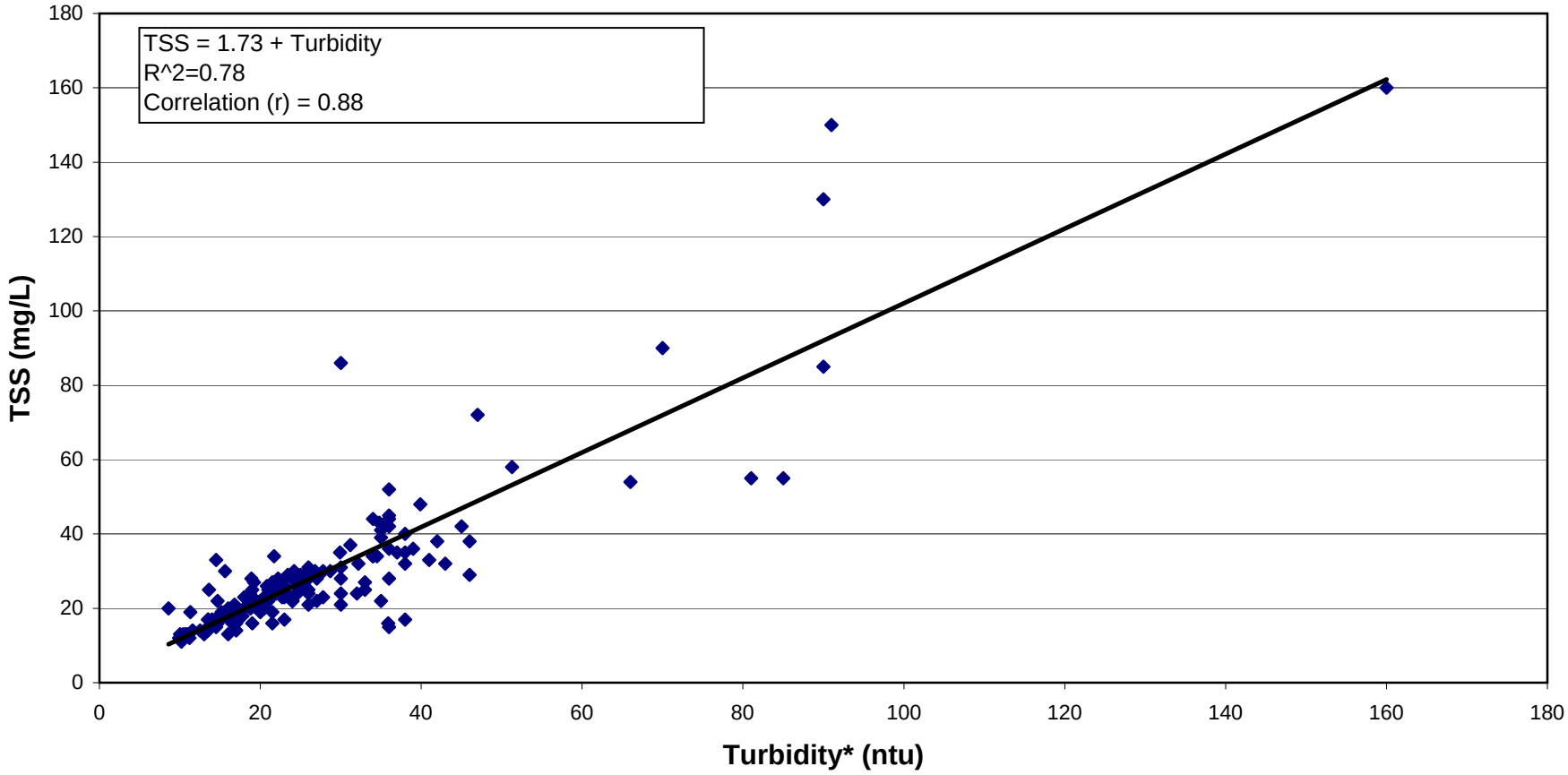
Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
11/23/2004	13:05	11.6	15.1			912	Breezy (10-15 mph)	1 RA 04 SP SW 192 - 912 1 RA 04 SP SW 193RINSE - 912
11/24/2004	10:28	10.6	14.4			905	Windy (15-20 mph)	1 RA 04 SP SW 194 - 905
11/24/2004	10:32	6.7	15.7			902	Windy (15-20 mph)	1 RA 04 SP SW 195 - 902
11/24/2004	10:35	9.6	12.6			912	Windy (15-20 mph)	1 RA 04 SP SW 196 - 912
11/29/2004	10:40	4	NA			905	Mild Breeze (5-10 mph)	1 RA 04 SP SW 197 - 905
11/29/2004	10:50	3.6	NA			902	Mild Breeze (5-10 mph)	1 RA 04 SP SW 198 - 902
11/29/2004	11:00	13.3	NA			912	Mild Breeze (5-10 mph)	1 RA 04 SP SW 199 - 912

[1] Sampling time approximate - readings collected on regular 15 minute intervals.

[2] Hand-held turbidity used in difference if available.

Data presented are Draft and Preliminary. These data have not undergone QA procedures and should not be viewed as final.

TSS/Turbidity Correlation
Data presented are Draft and Preliminary



Note: Includes data collected 8/30/04 - 11/18/04

*Data are hand held turbidity readings when available, otherwise telemetric reading sampled closest in time

J:\scopes\04G007\Effluent_SurfaceWater_Data\Preliminary\Turbidity_TSS_Corr.xls

DRAFT

Foth & Van Dyke
Memorandum

December 7, 2004

TO: Ben Hung, WDNR
Greg Hill, WDNR
Gary Kincaid, WDNR
Jim Hahnenberg, EPA
Boldt Oversight Team

CC: Bill Hartman, GW Partners
Amie Obermeier, GW Partners
Sherman LaViolette, CH2MHill
Mike Jury, CH2MHill
Tara Konkle, Foth & Van Dyke
Steve Laszewski, Foth & Van Dyke

FR: Jim Hutchison, Foth & Van Dyke

RE: OU1 2004 Environmental Monitoring Data – November 26 through December 3, 2004

Attached are monitoring data for the one week period beginning November 26, 2004 and ending December 3, 2004 for the environmental monitoring activities pursuant to the 2004 RA Work Plan, May, 2004 and subsequent addendum. If you have any questions or comments please contact Jim Hutchison at (920) 497 2500 or at jhutchison@foth.com. In addition to the weekly data summary, project data will be provided in a database format following completion of the 2004 RA work.

Data presented are draft and preliminary. These data have not undergone QA procedures and should not be viewed as final.

Air Monitoring Data:

Summary: Air sampling at the four meter locations was initiated on August 7, 2004. Sampling consisted of a 72 hour sampling event per week. Continuous sampling began on August 30, 2004. The air monitoring was temporarily shut down on Friday, November 19, 2004. The air monitoring will be restarted during dewatered sediment removal activities.

Attachment 1 – Summary of Sampling Results 11/10/04 through 11/16 and Monitor Location Sketch

Surface Water Data:

Summary: River turbidity meters began operation on August 20, 2004 monitoring river turbidity (NTUs) every 15 minutes at three locations. The meters were located upstream

(meter 912), downstream (meter 902) and far downstream (meter 905) of activities. The turbidity meters were removed from the river on November 29, 2004 after sand placement was completed. Dredging activities within Subarea A, Region VIII occurred for 7 hours on December 1st, 2004. Turbidity monitoring was accomplished using a hand held meter.

Field Surface Water Data

Summary: Field data includes hand held turbidity measurements and TSS sampling taken at the turbidity monitoring stations between August 30, 2004 and November 24, and on November 29th and December 1st, 2004. The correlation between TSS and turbidity to date (11/24/04) shows a correlation coefficient of 0.88.

Attachment 2 - TSS and Field Turbidity Data and TSS/Turbidity Correlation

Water Treatment Data:

Summary: The effluent water is being analyzed for TSS, PCBs, Ammonia and BOD. Low level mercury was also analyzed once per week during normal operation activities.

Attachment 3 – Effluent Water Results

Post-Dredge Bathymetric QA Summary

Summary: Initial QA bathymetric data for Region VIII of Deposit A was included in the October 26, 2004 memorandum. Portions of Region VIII of Deposit A were re-dredged on December 1, 2004. A re-survey was performed on December 6, 2004.

Sediment Sample Verification:

Summary: Post dredge sediment sample collection began on October 11, 2004 and finished on October 12, 2004 in Region IV of Deposit A. Post dredge sediment sample collection in Region VIII of Deposit A was completed on October 25, 2004. The sediment PCB results were included in the November 16, 2004 environmental data memorandum.

Sand Placement Verification:

Summary: Sand placement was initiated on November 10, 2004 and completed on November 24, 2004. Sand sampling of sand placement thickness was performed on November 30, 2004. Survey of the sand placement area was performed on December 6, 2004.

Attachment: None
Note: Transmitted when available.

Attachment 1

GW Partners, LLC

Lower Fox River Operable Unit 1

Summary of Air Sampling Results Calculated through December 7, 2004

All Results Reported in Total PCBs[1]

Dates	Sampling Round	Location ID	Sample ID	Laboratory Method[2]	Laboratory Reporting Limit (Total µg of PCBs)	Laboratory Results (Total µg of PCBs)[3]	Total Air Volume Sampled (Total m^3)[4]		Calculated PCB Conc'n ($\mu g/m^3$)[5]
11-10-04 to 11-13-04	29	GWP-1	PCB-01-29	EPA TO-4A	0.5	ND	1153.19	≤	0.00043
11-10-04 to 11-13-04	29	GWP-2	PCB-02-29	EPA TO-4A	0.5	ND	1174.16	≤	0.00043
11-10-04 to 11-13-04	29	GWP-3	PCB-03-29	EPA TO-4A	0.5	ND	451.17	≤	0.00111
11-10-04 to 11-13-04	29	GWP-4	PCB-04-29	EPA TO-4A	0.5	ND	472.23	≤	0.00106
11-13-04 to 11-16-04	30	GWP-1	PCB-01-30	EPA TO-4A	0.5	ND	1103.94	≤	0.00045
11-13-04 to 11-16-04	30	GWP-2	PCB-02-30	EPA TO-4A	0.5	ND	1110.91	≤	0.00045
11-13-04 to 11-16-04	30	N/A	Field Blank 12	EPA TO-4A	0.5	ND	N/A	≤	N/A

Notes:

1. The laboratory reports the results in terms of significant Aroclors. Included are Aroclors 1016, 1221, 1232, 1242, 1248, 1254 and 1260. This table reports total PCB Aroclors and calculates a total PCB ambient air concentration.

2. EPA Compendium Method TO-4A is for determination of pesticides and polychlorinated biphenyls in ambient air using high volume polyurethane foam (PUF) sampling followed by gas chromoatographic/multi-detector detection (GC/MD).

3. ND = "None Detected". Given the laboratory reporting limit is 0.5 ug/sample, the concentration is calculated based on this value and reported as less than this concentration.

4. Construction activity in the area caused the power line to be severed to both GWP-3 and GWP-4 approximately half-way through sample Round 29. This situation caused sampling at these stations to be terminated at that point and is reflected in the lower volume of air obtained during Round 29 for these two locations. In that power was not restored at the beginning of Round 30, samples also could not be obtained at these two locations for that sample period.

5. As a frame of reference, the airborne concentrations observed here could be compared to the airborne concentrations observed during the previous 56/57 Demonstration Project in 1999. During that study, concentrations collected within the property boundaries of the remediation area ranged from 0.0013 to 0.0216 ug/m^3 during dredging. Baseline concentrations, obtained prior to this same dredging project ranged from 0.0003 to 0.0016 ug/m^3.

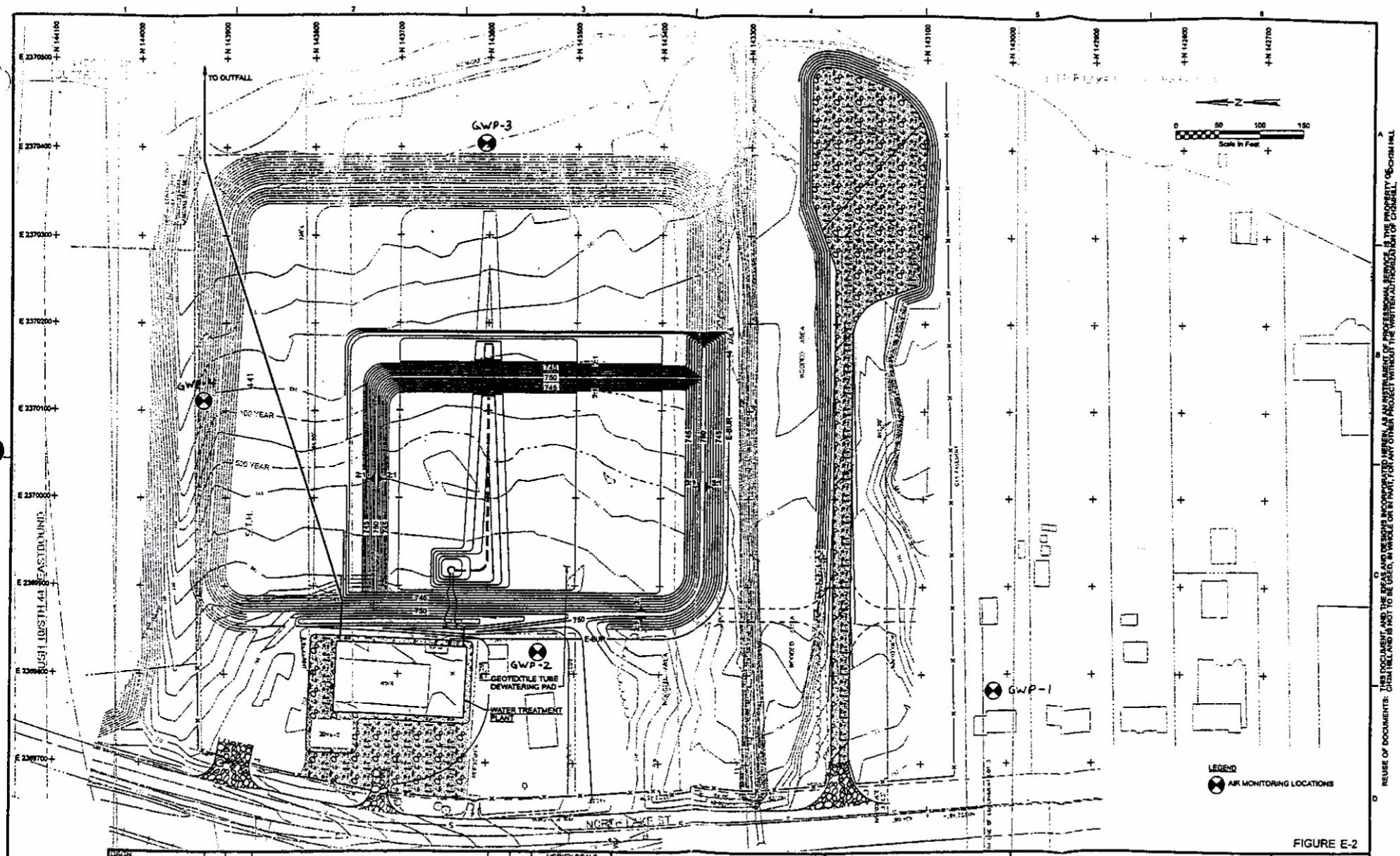


FIGURE E-2

DESIGN	C.M.LIETHEN				VERIFY SCALE	CH2MHILL	LOWER FOX RIVER (OU1) 2004 REMEDIAL ACTION TOWN OF MENASHA, WI G.W. PARTNERS, LLC	AIR MONITORING LOCATIONS	SHEET
DR	I.M.ZAEFKE				BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.				DWG C-1
CHK	D.J.PLOMB								DATE MAY 2004
APVD	S.D.LAVOLETTE	NO	DATE	REVISION	BY APVD				PROJ 315814.RA.01

FILENAME: tr5nc1416_183838.dgn PLOT DATE: 14-MAY-2004 PLOT TIME: 10:40:11

Attachment 2

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
8/30/2004	13:47	19.8	19	25	6	912	Calm (0-5 mph)	1 RA 04 DEWT SW 1 - 912
8/30/2004	13:54	19.1	24	22	-2	902	Calm (0-5 mph)	1 RA 04 DEWT SW 2 - 902
8/30/2004	14:01	20.1	18	23	5	905	Calm (0-5 mph)	1 RA 04 DEWT SW 3 - 905
8/31/2004	19:32	12.0	13.5	15	1.5	912	Calm (0-5 mph)	1 RA 04 DEWT SW 4 - 912
8/31/2004	19:40	18.2	23	25	2	902	Calm (0-5 mph)	1 RA 04 DEWT SW 5 - 902
				24				1 RA 04 DEWT SW 5Dup - 902
8/31/2004	19:47	12.8	13.5	17	3.5	905	Calm (0-5 mph)	1 RA 04 DEWT SW 6 - 905
				<1.0				1 RA 04 DEWT SW 7RINSE - 905
9/1/2004	12:56	24.2	23	28	5	912	Calm (0-5 mph)	1 RA 04 DEWT SW 8 - 912
9/1/2004	13:08	51.1	39	36	-3	902	Calm (0-5 mph)	1 RA 04 DEWT SW 9 - 902
9/1/2004	13:15	22.8	21.6	25	3.4	905	Calm (0-5 mph)	1 RA 04 DEWT SW 10 - 905
9/2/2004	12:16	22.4	23	26	3	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 11 - 912
9/2/2004	12:31	34.4	35	41	6	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 12 - 902
9/2/2004	12:44	33.3	30	31	1	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 13 - 905
9/3/2004	11:55	21.1	18	20	2	912	Calm (0-10 mph)	1 RA 04 DEWT SW 14 - 912
9/3/2004	12:05	39.7	30	28	-2	902	Calm (0-10 mph)	1 RA 04 DEWT SW 15 - 902
				28				1 RA 04 DEWT SW 15Dup - 902
9/3/2004	12:13	16.6	18	20	2	905	Calm (0-10 mph)	1 RA 04 DEWT SW 16 - 905
				<1.0				1 RA 04 DEWT SW 16RINSE - 905
9/7/2004	7:22	20	32.6		NA	902	Calm (0-10 mph)	NA
9/7/2004	7:26	20.7	33		NA	905	Calm (0-10 mph)	NA
9/7/2004	7:51	15.5	28.5		NA	912	Calm (0-10 mph)	NA
9/7/2004	11:52	18.7		24	5.3	912	Calm (0-10 mph)	1 RA 04 DEWT SW 18 - 912
9/7/2004	12:07	25		29	4	902	Calm (0-10 mph)	1 RA 04 DEWT SW 19 - 902
9/7/2004	12:15	22.7		23	0.3	905	Calm (0-10 mph)	1 RA 04 DEWT SW 20 - 905
9/8/2004	11:39	51.3		58	6.7	912	Windy (15-20 mph)	1 RA 04 DEWT SW 21 - 912
9/8/2004	11:50	36		42	6	902	Windy (15-20 mph)	1 RA 04 DEWT SW 22 - 902
9/8/2004	11:56	39.9		48	8.1	905	Windy (15-20 mph)	1 RA 04 DEWT SW 23 - 905
9/9/2004	11:11	31.8	33	25	-8	912	Calm (0-5 mph)	1 RA 04 DEWT SW 24 - 912
9/9/2004	11:20	24	26	25	-1	902	Calm (0-5 mph)	1 RA 04 DEWT SW 25 - 902
9/9/2004	11:35	23.2	26	24	-2	905	Calm (0-5 mph)	1 RA 04 DEWT SW 26 - 905
9/10/2004	9:36	23.5	26	21	-5	912	Windy (10-20 mph)	1 RA 04 DEWT SW 27 - 912
9/10/2004	9:48	1100	35	22	-13	902	Windy (10-20 mph)	1 RA 04 DEWT SW 28 - 902
				23				1 RA 04 DEWT SW 28Dup - 902
9/10/2004	10:00	657	30	24	-6	905	Windy (10-20 mph)	1 RA 04 DEWT SW 29 - 905
				<1.0				1 RA 04 DEWT SW 30RINSE - 905
9/11/2004	9:43	23	30	21	-9	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 31 - 912
9/11/2004	9:53	21.7	32	24	-8	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 32 - 902
9/11/2004	10:01	44.1	33	27	-6	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 33 - 905
9/14/2004	10:43	18.8	20.5	23	2.5	912	Windy (10-20 mph)	1 RA 04 000A SW 34 - 912
9/14/2004	10:52	20	18.6	22	3.4	902	Windy (10-20 mph)	1 RA 04 000A SW 35 - 902
9/14/2004	11:01	16	16.8	21	4.2	905	Windy (10-20 mph)	1 RA 04 000A SW 36 - 905
9/15/2004	11:16	36.9	35.9	16	-19.9	912	Windy (15-25 mph)	1 RA 04 000A SW 37 - 912
9/15/2004	11:31	23.9	23	26	3	902	Windy (15-25 mph)	1 RA 04 000A SW 38 - 902
9/15/2004	11:45	24.9	25.5	26	0.5	905	Windy (15-25 mph)	1 RA 04 000A SW 39 - 905
9/16/2004	9:30	36	36	44	8	912	Breezy (5-15 mph)	1 RA 04 000A SW 40 - 912
9/16/2004	9:55	26	26	28	2	902	Breezy (5-15 mph)	1 RA 04 000A SW 41 - 902
				27				1 RA 04 000A SW 41Dup - 902
9/16/2004	10:03	34.5	34.5	34	-0.5	905	Breezy (5-15 mph)	1 RA 04 000A SW 42 - 905
				<1.0				1 RA 04 000A SW 43RINSE - 905
9/17/2004	10:32	18.2	36	15	-21	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 44 - 912
9/17/2004	10:58	17.6	17	16	-1	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 45 - 902
9/17/2004	11:08	15.3	17	14	-3	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 46 - 905
9/20/2004	12:57	39.2	36	45	9	912	Breezy (5-15 mph)	1 RA 04 000A SW 47 - 912
9/20/2004	12:31	32.4	37	35	-2	902	Breezy (5-15 mph)	1 RA 04 000A SW 48 - 902
				35				1 RA 04 000A SW 48Dup - 902
9/20/2004	12:22	31.7	36	36	0	905	Breezy (5-15 mph)	1 RA 04 000A SW 49 - 905
				1.2				1 RA 04 000A SW 50RINSE - 905
9/21/2004	10:08	39.4	38	40	2	905	Breezy (5-15 mph)	1 RA 04 000A SW 51 - 905
9/21/2004	10:21	35.4	42	38	-4	902	Breezy (5-15 mph)	1 RA 04 000A SW 52 - 902
9/21/2004	10:35	41.7	36	52	16	912	Breezy (5-15 mph)	1 RA 04 000A SW 53 - 912
9/22/2004	10:13	21.8	24	22	-2	905	Calm (0-5 mph)	1 RA 04 000A SW 54 - 905
9/22/2004	10:23	21.3	23	24	1	902	Calm (0-5 mph)	1 RA 04 000A SW 55 - 902
9/22/2004	10:38	18.5	36	28	-8	912	Calm (0-5 mph)	1 RA 04 000A SW 56 - 912
9/23/2004	11:11	15.1	19	16	-3	905	Breezy (5-15 mph)	1 RA 04 000A SW 57 - 905
9/23/2004	11:23	31.7	20	19	-1	902	Breezy (5-15 mph)	1 RA 04 000A SW 58 - 902
9/23/2004	12:17	26.6	27	29	2	912	Breezy (5-15 mph)	1 RA 04 000A SW 59 - 912
9/24/2004	9:35	18.2	19.5	22	2.5	905	Calm (0-5 mph)	1 RA 04 000A SW 60 - 905
9/24/2004	9:44	34.8	27.8	30	2.2	902	Calm (0-5 mph)	1 RA 04 000A SW 61 - 902
				30				1 RA 04 000A SW 61Dup - 902
9/24/2004	10:02	39.1	47	72	25	912	Calm (0-5 mph)	1 RA 04 000A SW 62 - 912
				1.3				1 RA 04 000A SW 63RINSE - 912

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
9/27/2004	11:10	11.6	12.5	14	1.5	905	Calm (0-5 mph)	1 RA 04 000A SW 64 - 905
9/27/2004	11:21	53.1	16.5	16	-0.5	902	Calm (0-5 mph)	1 RA 04 000A SW 65 - 902
9/27/2004	11:36	14.3	20	22	2	912	Calm (0-5 mph)	1 RA 04 000A SW 66 - 912
9/27/2004	11:46	11.6			NA	902	Calm (0-5 mph)	NA
9/27/2004	13:01	17.2			NA	902	Calm (0-5 mph)	NA
9/28/2004	11:31	33.9	38	32	-6	905	Windy (15-20 mph)	1 RA 04 000A SW 67 - 905
9/28/2004	11:38	38.7	41	33	-8	902	Windy (15-20 mph)	1 RA 04 000A SW 68 - 902
				33				1 RA 04 000A SW 68Dup - 902
9/28/2004	11:48	33.4	34	44	10	912	Windy (15-20 mph)	1 RA 04 000A SW 69 - 912
				1.2				1 RA 04 000A SW 70RINSE - 912
9/29/2004	11:38	17.3	20.5	20	-0.5	905	Calm (0-5 mph)	1 RA 04 000A SW 71 - 905
9/29/2004	11:46	19.3	27.8	23	-4.8	902	Calm (0-5 mph)	1 RA 04 000A SW 72 - 902
9/29/2004	12:22	14.2	14.5	33	18.5	912	Calm (0-5 mph)	1 RA 04 000A SW 73 - 912
9/29/2004	12:31	14.3			NA	902	Calm (0-5 mph)	NA
9/30/2004	10:20	24.6		24	-0.6	905	Calm (0-5 mph)	1 RA 04 000A SW 74 - 905
9/30/2004	10:30	18.6		22	3.4	902	Calm (0-5 mph)	1 RA 04 000A SW 75 - 902
9/30/2004	10:50	11.3		19	7.7	912	Calm (0-5 mph)	1 RA 04 000A SW 76 - 912
10/1/2004	10:34	24.9	27	22	-5	905	Breezy (10-15 mph)	1 RA 04 000A SW 77 - 905
10/1/2004	10:45	31.8	38	35	-3	902	Breezy (10-15 mph)	1 RA 04 000A SW 78 - 902
				34				1 RA 04 000A SW 78Dup - 902
10/1/2004	11:03	34	34	34	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 79 - 912
				<1.0				1 RA 04 000A SW 80RINSE - 912
10/4/2004	10:21	31.2	21.5	27	5.5	905	Breezy (10-15 mph)	1 RA 04 000A SW 81 - 905
10/4/2004	10:27	27.5	22.2	28	5.8	902	Breezy (10-15 mph)	1 RA 04 000A SW 82 - 902
10/4/2004	10:58	32.7	34	34	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 83 - 912
10/6/2004	9:09	24.5	22	26	4	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 84 - 905
10/6/2004	9:24	25.5	22	24	2	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 85 - 902
				22				1 RA 04 000A SW 85Dup - 902
10/6/2004	9:49	29	26	31	5	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 86 - 912
				<2.0				1 RA 04 000A SW 87RINSE - 912
10/7/2004	9:55	24.6	24	22	-2	905	Calm (0-7 mph)	1 RA 04 000A SW 88 - 905
10/7/2004	10:11	19.9	23	23	0	902	Calm (0-7 mph)	1 RA 04 000A SW 89 - 902
10/7/2004	10:34	72.9	70	90	20	912	Calm (0-7 mph)	1 RA 04 000A SW 90 - 912
10/8/2004	11:24	75.5	85	55	-30	905	Calm (0-8 mph)	1 RA 04 000A SW 91 - 905
10/8/2004	11:38	66.6	66	54	-12	902	Calm (0-8 mph)	1 RA 04 000A SW 92 - 902
10/8/2004	11:54	83.1	91	150	59	912	Calm (0-8 mph)	1 RA 04 000A SW 93 - 912
10/11/2004	10:36	45.9	46	29	-17	905	Calm (0-5 mph)	1 RA 04 000A SW 94 - 905
10/11/2004	10:58	40	43	32	-11	902	Calm (0-5 mph)	1 RA 04 000A SW 95 - 902
10/11/2004	11:18	72.1	90	85	-5	912	Calm (0-5 mph)	1 RA 04 000A SW 96 - 912
10/12/2004	12:27	28.3	27	28	1	905	Very Calm (0-3 mph)	1 RA 04 000A SW 97 - 905
10/12/2004	12:35	24.1	30	86	56	902	Very Calm (0-3 mph)	1 RA 04 000A SW 98 - 902
				62				1 RA 04 000A SW 98Dup - 902
10/12/2004	12:49	95.4	90	130	40	912	Very Calm (0-3 mph)	1 RA 04 000A SW 99 - 912
				<2.0				1 RA 04 000A SW 100RINSE - 912
10/13/2004	10:01	13.4	23	17	-6	905	Very Calm (0-3 mph)	1 RA 04 000A SW 101 - 905
10/13/2004	10:16	31.3	38	17	-21	902	Very Calm (0-3 mph)	1 RA 04 000A SW 102 - 902
10/13/2004	10:31	62.4	81	55	-26	912	Very Calm (0-3 mph)	1 RA 04 000A SW 103 - 912
10/14/2004	8:57	50.6	46	38	-8	905	Breezy (10-15 mph)	1 RA 04 000A SW 104 - 905
10/14/2004	9:05	52.3	45	42	-3	902	Breezy (10-15 mph)	1 RA 04 000A SW 105 - 902
10/14/2004	9:23	177.1	160	160	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 106 - 912
10/18/2004	9:35	16.9	17	17	0	905	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 107 - 905
10/18/2004	9:45	15.2	17.8	18	0.2	902	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 108 - 902
10/18/2004	9:54	17.4	21.5	16	-5.5	912	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 109 - 912
10/19/2004	9:49	25.1	21	24	3	905	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 110 - 905
10/19/2004	9:29	15.3	16.5	17	0.5	902	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 111 - 902
				17				1 RA 04 POG2 SW 111Dup - 902
10/19/2004	9:21	17.7	16	13	-3	912	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 112 - 912
				<2.0				1 RA 04 POG2 SW 113RINSE - 912
10/20/2004	9:35	13.4	13.2	14	0.8	905	Very Calm (0-3 mph)	1 RA 04 POG2 SW 114 - 905
10/20/2004	9:46	15	14.5	15	0.5	902	Very Calm (0-3 mph)	1 RA 04 POG2 SW 115 - 902
10/20/2004	9:55	17.3	17.3	17	-0.3	912	Very Calm (0-3 mph)	1 RA 04 POG2 SW 116 - 912
10/21/2004	11:47	10.5	13	13	0	905	Calm (0-7 mph)	1 RA 04 POG2 SW 117 - 905
10/21/2004	12:01	13.6	13.3	14	0.7	902	Calm (0-7 mph)	1 RA 04 POG2 SW 118 - 902
10/21/2004	12:16	18.5	15.5	18	2.5	912	Calm (0-7 mph)	1 RA 04 POG2 SW 119 - 912
10/22/2004	9:54	25.2	24.8	27	2.2	905	Breezy (10-15 mph)	1 RA 04 POG2 SW 120 - 905
10/22/2004	10:00	20.1	21.9	24	3.9	902	Breezy (10-15 mph)	1 RA 04 POG2 SW 121 - 902
				24				1 RA 04 POG2 SW 121Dup - 902
10/22/2004	10:14	18.1	21.5	19	-2.5	912	Breezy (10-15 mph)	1 RA 04 POG2 SW 122 - 912
				<2.0				1 RA 04 POG2 SW 123RINSE - 912
10/25/2004	9:16	25	26	30	4	905	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 124 - 905
10/25/2004	9:24	19.2	21	22	1	902	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 125 - 902
10/25/2004	9:37	30.6	32.2	32	-0.2	912	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 126 - 912

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
10/26/2004	10:31	19.2	19.2	27	7.8	905	Windy (10-20 mph)	1 RA 04 POG2 SW 127 - 905
10/26/2004	10:40	30.2	29.9	35	5.1	902	Windy (10-20 mph)	1 RA 04 POG2 SW 128 - 902
				34				1 RA 04 POG2 SW 128Dup - 902
10/26/2004	10:50	25.8	26.9	29	2.1	912	Windy (10-20 mph)	1 RA 04 POG2 SW 129 - 912
				<1.0				1 RA 04 POG2 SW 130RINSE - 912
10/27/2004	8:40	17.7	18.8	20	1.2	905	Windy (10-20 mph)	1 RA 04 POG2 SW 131 - 905
10/27/2004	8:52	25.2	24	28	4	902	Windy (10-20 mph)	1 RA 04 POG2 SW 132 - 902
10/27/2004	9:03	29.8	28.7	30	1.3	912	Windy (10-20 mph)	1 RA 04 POG2 SW 133 - 912
10/28/2004	9:01	14.4	14	17	3	905	Calm (0-10 mph)	1 RA 04 POG2 SW 134 - 905
10/28/2004	9:07	15.1	14.4	17	2.6	902	Calm (0-10 mph)	1 RA 04 POG2 SW 135 - 902
10/28/2004	9:21	19.8	17.5	18	0.5	912	Calm (0-10 mph)	1 RA 04 POG2 SW 136 - 912
10/29/2004	10:56	36.4	34.8	43	8.2	905	Calm (0-5 mph)	1 RA 04 POG2 SW 137 - 905
10/29/2004	11:03	33.2	31.2	37	5.8	902	Calm (0-5 mph)	1 RA 04 POG2 SW 138 - 902
				34				1 RA 04 POG2 SW 138Dup - 902
10/29/2004	11:16	23.6	24.4	24	-0.4	912	Calm (0-5 mph)	1 RA 04 POG2 SW 139 - 912
				<1.0				1 RA 04 POG2 SW 140RINSE - 912
11/1/2004	11:01	19.9	21.7	25	3.3	905	Calm (0-5 mph)	1 RA 04 POG2 SW 141 - 905
11/1/2004	11:08	23.9	24.6	24	-0.6	902	Calm (0-5 mph)	1 RA 04 POG2 SW 142 - 902
11/1/2004	11:18	26.5	26.8	30	3.2	912	Calm (0-5 mph)	1 RA 04 POG2 SW 143 - 912
11/2/2004	8:41	19.3	17	20	3	905	Breezy (5-15 mph)	1 RA 04 POG2 SW 144 - 905
11/2/2004	8:49	18.3	16.2	19	2.8	902	Breezy (5-15 mph)	1 RA 04 POG2 SW 145 - 902
11/2/2004	8:59	34.4	35	39	4	912	Breezy (5-15 mph)	1 RA 04 POG2 SW 146 - 912
11/3/2004	9:04	8.5	11.2	12	0.8	905	Calm (0-5 mph)	1 RA 04 POG2 SW 147 - 905
11/3/2004	9:24	11.9	10.2	11	0.8	902	Calm (0-5 mph)	1 RA 04 POG2 SW 148 - 902
				11				1 RA 04 POG2 SW 148Dup - 902
11/3/2004	9:31	11.7	13.5	17	3.5	912	Calm (0-5 mph)	1 RA 04 POG2 SW 149 - 912
	9:33	11.7	12.6	<1.0		912		1 RA 04 POG2 SW 150RINSE - 912
11/4/2004	11:10	24	24.8	28	3.2	905	Mild Breeze (5-10 mph) with Gusts	1 RA 04 POG2 SW 151 - 905
11/4/2004	11:16	24.8	20.8	26	5.2	902	Mild Breeze (5-10 mph) with Gusts	1 RA 04 POG2 SW 152 - 902
11/4/2004	11:23	23.8	21.7	34	12.3	912	Mild Breeze (5-10 mph) with Gusts	1 RA 04 POG2 SW 153 - 912
11/5/2004	10:11	10.2	10.5	12	1.5	905	Breezy (5-15 mph)	1 RA 04 POG2 SW 154 - 905
11/5/2004	10:18	12.9	11.6	14	2.4	902	Breezy (5-15 mph)	1 RA 04 POG2 SW 155 - 902
11/5/2004	10:23	19.6	21	25	4	912	Breezy (5-15 mph)	1 RA 04 POG2 SW 156 - 912
11/8/2004	9:28	10.5	10.4	13	2.6	905	Calm (0-10 mph)	1 RA 04 POG2 SW 157 - 905
11/8/2004	9:38	11.6	10.9	13	2.1	902	Calm (0-10 mph)	1 RA 04 POG2 SW 158 - 902
11/8/2004	9:46	15	15.2	19	3.8	912	Calm (0-10 mph)	1 RA 04 POG2 SW 159 - 912
11/9/2004	9:23	9.9	10	13	3	905	Breezy (10-15 mph)	1 RA 04 POG2 SW 160 - 905
11/9/2004	9:39	13.8	10.7	13	2.3	902	Breezy (10-15 mph)	1 RA 04 POG2 SW 161 - 902
				13				1 RA 04 POG2 SW 162Dup - 902
11/9/2004	9:29	10.7	9.9	12	2.1	912	Breezy (10-15 mph)	1 RA 04 POG2 SW 163 - 912
				<0.25				1 RA 04 POG2 SW 164RINSE - 912
11/10/2004	9:06	20.3	24.2	30	5.8	905	Windy (15-20 mph)	1 RA 04 SP SW 164 - 905
11/10/2004	9:11	14.7	23.4	29	5.6	902	Windy (15-20 mph)	1 RA 04 SP SW 165 - 902
11/10/2004	9:17	20.7	21.1	24	2.9	912	Windy (15-20 mph)	1 RA 04 SP SW 166 - 912
11/11/2004	10:45	15.6	NA	30	14.4	905	Breezy (5-15 mph)	1 RA 04 SP SW 167 - 905
11/11/2004	10:50	13.6	NA	25	11.4	902	Breezy (5-15 mph)	1 RA 04 SP SW 168 - 902
11/11/2004	10:55	21.7	NA	27	5.3	912	Breezy (5-15 mph)	1 RA 04 SP SW 169 - 912
11/12/2004	11:25	13.8	17.2	20	2.8	905	Calm (0-5 mph)	1 RA 04 SP SW 170 - 905
11/12/2004	11:33	9.3	16.2	18	1.8	902	Calm (0-5 mph)	1 RA 04 SP SW 171 - 902
				19				1 RA 04 SP SW 171Dup - 902
11/12/2004	11:42	12	13.5	14	0.5	912	Calm (0-5 mph)	1 RA 04 SP SW 172 - 912
				<0.25				1 RA 04 SP SW 173RINSE - 912
11/15/2004	11:25	13.9	14.7	22	7.3	905	Calm (0-10 mph)	1 RA 04 SP SW 174 - 905
11/15/2004	11:30	11.2	18.9	28	9.1	902	Calm (0-10 mph)	1 RA 04 SP SW 175 - 902
11/15/2004	11:37	14	17.2	18	0.8	912	Calm (0-10 mph)	1 RA 04 SP SW 176 - 912
11/16/2004	9:21	13	16	20	4	905	Calm (0-5 mph)	1 RA 04 SP SW 177 - 905
11/16/2004	9:26	9.8	16.4	19	2.6	902	Calm (0-5 mph)	1 RA 04 SP SW 178 - 902
11/16/2004	9:31	14.6	15.6	18	2.4	912	Calm (0-5 mph)	1 RA 04 SP SW 179 - 912
11/17/2004	9:46	13.6	17	20	3	905	Very Calm (0-3 mph)	1 RA 04 SP SW 180 - 905
11/17/2004	10:01	14	19.6	20	0.4	902	Very Calm (0-3 mph)	1 RA 04 SP SW 181 - 902
				21				1 RA 04 SP SW 181Dup - 902
11/17/2004	10:11	15.3	16.7	19	2.3	912	Very Calm (0-3 mph)	1 RA 04 SP SW 182 - 912
				<0.25				1 RA 04 SP SW 183RINSE - 912
11/18/2004	10:14	14	15.6	17	1.4	905	Mild Breeze (5-10 mph)	1 RA 04 SP SW 184 - 905
11/18/2004	10:21	8.6	15	20	5	902	Mild Breeze (5-10 mph)	1 RA 04 SP SW 185 - 902
11/18/2004	10:30	14.7	15.2	16	0.8	912	Mild Breeze (5-10 mph)	1 RA 04 SP SW 186 - 912
11/22/2004	11:33	3	6.6	7.2	0.6	905	Breezy (5-15 mph)	1 RA 04 SP SW 187 - 905
11/22/2004	11:39	4.4	10.7	12	1.3	902	Breezy (5-15 mph)	1 RA 04 SP SW 188 - 902
11/22/2004	11:48	5.6	8.6	8.4	-0.2	912	Breezy (5-15 mph)	1 RA 04 SP SW 189 - 912
11/23/2004	12:54	11.3	15.3	18	2.7	905	Breezy (10-15 mph)	1 RA 04 SP SW 190 - 905
11/23/2004	13:00	10.4	17.5	23	5.5	902	Breezy (10-15 mph)	1 RA 04 SP SW 191 - 902
				22				1 RA 04 SP SW 191Dup - 902

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

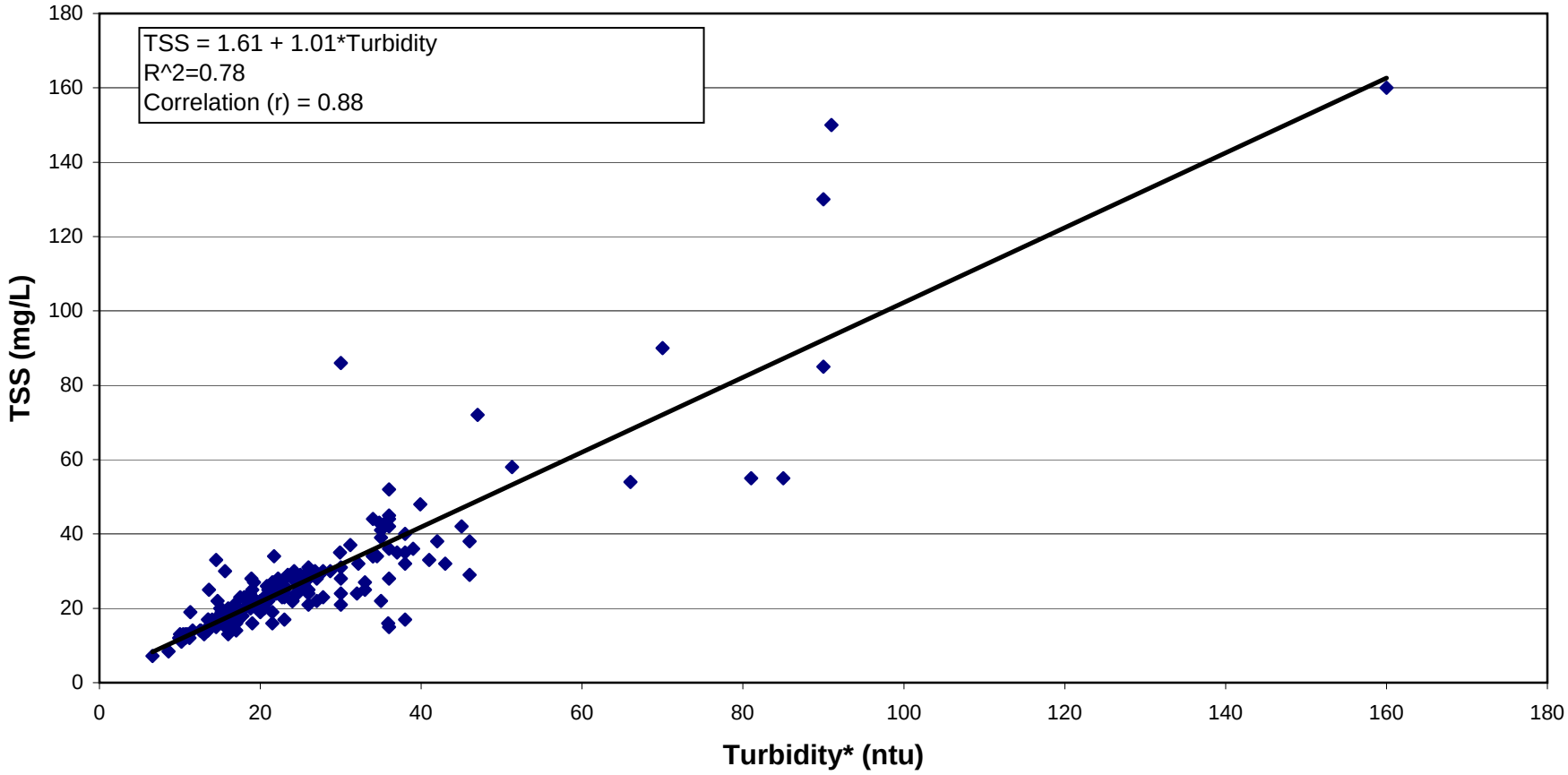
Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
11/23/2004	13:05	11.6	15.1	20	4.9	912	Breezy (10-15 mph)	1 RA 04 SP SW 192 - 912
				<0.50				1 RA 04 SP SW 193RINSE - 912
11/24/2004	10:28	10.6	14.4	17	2.6	905	Windy (15-20 mph)	1 RA 04 SP SW 194 - 905
11/24/2004	10:32	6.7	15.7	15	-0.7	902	Windy (15-20 mph)	1 RA 04 SP SW 195 - 902
11/24/2004	10:35	9.6	12.6	14	1.4	912	Windy (15-20 mph)	1 RA 04 SP SW 196 - 912
11/29/2004	10:40	4	NA			905	Mild Breeze (5-10 mph)	1 RA 04 SP SW 197 - 905
11/29/2004	10:50	3.6	NA			902	Mild Breeze (5-10 mph)	1 RA 04 SP SW 198 - 902
11/29/2004	11:00	13.3	NA			912	Mild Breeze (5-10 mph)	1 RA 04 SP SW 199 - 912
12/1/2004	14:03	NA	5.2			~ 905 Location	Mild Breeze (5-10 mph)	1 RA 04 SP SW 200 - 905
12/1/2004	14:09	NA	7.1			~ 902 Location	Mild Breeze (5-10 mph)	1 RA 04 SP SW 201 - 902
								1 RA 04 SP SW 201Dup - 902
12/1/2004	14:16	NA	6.8			~912 Location	Mild Breeze (5-10 mph)	1 RA 04 SP SW 202 - 912
								1 RA 04 SP SW203RINSE - 912

[1] Sampling time approximate - readings collected on regular 15 minute intervals.

[2] Hand-held turbidity used in difference if available.

Data presented are Draft and Preliminary. These data have not undergone QA procedures and should not be viewed as final.

TSS/Turbidity Correlation
Data presented are Draft and Preliminary



Note: Includes data collected 8/30/04 - 11/24/04

*Data are hand held turbidity readings when available, otherwise telemetric reading sampled closest in time

Attachment 3

GW Partners
Lower Fox River - OU-1
04G007
Effluent Results - Draft and Preliminary

Date	Sample ID	TSS (mg/L)	BOD (mg/L)	Daily Flow (million gallons)[3]	Ammonia Nitrogen (mg/L)	Total PCBs (ug/L)	Mercury (Low-Level) (ng/L)
9/3/04	IRA04 DEWT EF1	21	-	-	<0.32	<0.26	-
9/7/04	IRA04 DEWT EF2	9.0	-	-	0.67	<0.24	-
9/9/04	IRA04 DEWT EF3	19	-	-	3.1	<0.24	-
9/10/04	IRA04 DEWT EF4	24	-	-	4.5	<0.32	-
9/11/04	IRA04 DEWT EF5	16	-	-	2.9	<0.25	-
9/13/04	IRA04 DEWT EF6	12	-	-	4.9	<0.26	-
9/15/04	IRA04 DEWT EF7	87	-	-	6.7	<0.25	-
9/16/04	IRA04 DEWT EF8	40	16	0.8	4.4	<0.25	-
9/17/04	IRA04 DEWT EF9	33	12	-	3.2	<0.25	-
9/17/04 Dup.	IRA04 DEWT EF9 DUP	31	-	-	3.1	-	-
9/20/04	IRA04 DEWT EF10	11	3.1	1.1	2.2	<0.26	-
9/20/04	IRA04 DEWT EF10 Dup	-	-	-	-	<0.25	-
9/21/04	IRA04 DEWT EF11	17	3.2	0.3	1.8	<0.25	-
9/21/04	IRA04 DEWT EF11 Dup	-	3.2	-	-	-	-
9/22/04	IRA04 DEWT EF12	17	6.6	0.4	1.5	<0.25	-
9/23/04	IRA04 DEWT EF13	20	3.4	1.0	1.5	<0.25	-
9/24/04	IRA04 DEWT EF14	18	3.1	0.4	1.4	<0.25	-
9/25/04	IRA04 DEWT EF15	19	<2.0	-	1.5	<0.25	-
9/27/04	IRA04 DEWT EF16	10	<2.0	0.6	1.7	<0.25	-
9/28/04	IRA04 DEWT EF17	11	4.2	0.7	1.5	<0.26	-
9/29/04	IRA04 DEWT EF18	13	4.4	0.6	1.4	<0.26	-
9/29/04	IRA04 DEWT EF18 Dup	10	4.3	-	1.4	<0.25	-
9/30/04	IRA04 DEWT EF19	11	5.4	0.5	1.4	<0.25	-
10/1/04	IRA04 DEWT EF20	12	5.9	0.8	<0.32	<0.25	-
10/2/04	IRA04 DEWT EF21	23	9.6	-	1.2	<0.24	-
10/4/04	-	-	-	0.6	-	-	-
10/5/04	IRA04 DEWT EF22	20	7.7	-	1.4	<0.25	-
10/7/04	IRA04 DEWT EF23	13	4.5	1.1	3.7	<0.24	-
10/8/04	IRA04 DEWT EF24	14	6.0	0.6	3.8	<0.25	-
10/9/04	IRA04 DEWT EF25	4.4	<2.0	-	4.9	<0.25	-
10/11/04	IRA04 DEWT EF26	3.3	<2.0	0.5	4.4	<0.25	-
10/12/04	IRA04 DEWT EF27	3.6	<2.0	0.2	4.7	<0.25	-
10/13/04	DEWT EF28	2.4	<2.0	0.5	5.1	<0.52	-
10/14/04	DEWT EF29	9.3	5.2	0.3	4.5	<0.25	-
10/14/04	DEWT EF29 Dup	-	-	-	4.5	-	-
10/15/04	DEWT EF30	10	8.0	-	3.9	-	-
10/18/04	-	-	-	0.7	-	-	-
10/19/04	DEWT EF31	10	7.6	0.6	8.8	<0.25	-
10/19/04	DEWT EF31 Dup.	10	7.4	-	-	<0.25	-
10/20/04	DEWT EF32	20	24	0.3	8.7	<0.25	-
10/21/04	DEWT EF33	12	14	0.6	12	<0.25	-
10/22/04	DEWT EF34	20	18	0.56	9.3	<0.25	-
10/23/04	DEWT EF35	6.5[Q]	6.9[H]	-	23	<0.25	-
10/24/04	DEWT EF36	<5.0[C]	3.2	0.34	28[N]	<0.25	-
10/26/04	DEWT EF37	3.8[Q]	3.6	0.3	34[N]	-	-
10/27/04	DEWT EF38	6.4[Q]	6.1	0.34	36	<0.28	-
10/28/04	DEWT EF39	6.4[Q]	4.0	0.31	39[N]	<0.25	3.25
10/28/04	DEWT EF39 TB	-	-	-	-	-	<0.197

GW Partners
Lower Fox River - OU-1
04G007
Effluent Results - Draft and Preliminary

Date	Sample ID	TSS (mg/L)	BOD (mg/L)	Daily Flow (million gallons)[3]	Ammonia Nitrogen (mg/L)	Total PCBs (ug/L)	Mercury (Low-Level) (ng/L)
10/29/04	DEWT EF40	8.2	4.3	0.5	35	<0.25	-
10/29/04	DEWT EF40 Dup.	6.8[Q]	4.3	-	42[N]	<0.25	-
10/30/04	DEWT EF41	5.6[Q]	2.8	0.5	36	<0.25	-
11/2/04	DEWT EF42	3.7	2.7	0.2	43	-	-
11/3/04	DEWT EF43	-	6.2	0.6	38	<0.25	-
11/4/04	DEWT EF44	11[Q]	12	0.47	24	<0.25	-
11/5/04	DEWT EF45	10	5.9	0.15	30	-	-
11/6/04	DEWT EF46	9	3.3	0.32	32	<0.25	2.05
11/7/04	DEWT EF46 TB	-	-	0	-	-	<0.197
11/8/04	DEWT EF47	-	-	0.059	34[N]	-	-
11/9/04	DEWT EF48	4.8	<2.0	0.49	-	<0.25	-
11/10/04	DEWT EF49	6	2.3	0.25	-	<0.26	2.6
11/10/04	DEWT EF49 DUP	5	2.1	-	-	-	-
11/10/04	DEWT EF49 FB	-	-	-	-	-	<0.197
11/10/04	DEWT EF49 TB	-	-	-	-	-	<0.97
11/17/04	DEWT EF50	1.1	<2.0	0.13	30	<0.25	-
11/17/04	DEWT EF50 Dup.	-	-	-	-	<0.24	-
Performance Expectation		5[1], 10[2]	10	1.2 - 1.7 (mgd)	67[4]	< 0.1 - 0.5	<0.2 to <0.5[5]

[1] Monthly average

[2] Daily maximum

[3] Daily flow measured from midnight to midnight through 10/26/04 then measured at approx 10:00 AM till 10:00 AM thereafter.

[4] Actual performance expectation is dependent on flow rate and pH of effluent. 67 mg/L is a conservative expectation.

[5] Previous Fox River dredging projects experienced effluents with low level mercury values ranging from nd to 6 ng/L.

[C] Elevated Detection Limit

[H] Preservatioin, extraction or analysis performed past hold time.

[N] Spiked Sample Recovery Not Within Control Limits.

[Q] Result between LOD and LOQ

Data received by 12/06/04
Data presented are Draft and Preliminary.
These data have not undergone QA procedures and should not be viewed as final.

DRAFT

Foth & Van Dyke

Memorandum

December 14, 2004

TO: Ben Hung, WDNR
Greg Hill, WDNR
Gary Kincaid, WDNR
Jim Hahnenberg, EPA
Boldt Oversight Team

CC: Bill Hartman, GW Partners
Amie Obermeier, GW Partners
Sherman LaViolette, CH2MHill
Mike Jury, CH2MHill
Tara Konkle, Foth & Van Dyke
Steve Laszewski, Foth & Van Dyke

FR: Jim Hutchison, Foth & Van Dyke

RE: OU1 2004 Environmental Monitoring Data – December 3 through December 10, 2004

Attached are monitoring data for the one week period beginning December 3, 2004 and ending December 10, 2004 for the environmental monitoring activities pursuant to the 2004 RA Work Plan, May, 2004 and subsequent addendum. If you have any questions or comments please contact Jim Hutchison at (920) 497 2500 or at jhutchison@foth.com. In addition to the weekly data summary, project data will be provided in a database format following completion of the 2004 RA work.

Data presented are draft and preliminary. These data have not undergone QA procedures and should not be viewed as final.

Air Monitoring Data:

Summary: Air sampling at the four meter locations was initiated on August 7, 2004. Sampling consisted of a 72 hour sampling event per week. Continuous sampling began on August 30, 2004. The air monitoring was temporarily shut down on Friday, November 19, 2004. The air monitors were restarted on Monday, December 3, 2004. Dewatered sediment removal activities were initiated on Wednesday, December 8, 2004.

Attachment 1 – Summary of Sampling Results 11/10/04 through 11/16 and Monitor Location Sketch (note: two monitor, GWP 3 and GWP 4 were shut down November 16 to allow construction of the proposed north berm at the pad area).

Surface Water Data:

Summary: River turbidity meters began operation on August 20, 2004 monitoring river turbidity (NTUs) every 15 minutes at three locations. The meters were located upstream (meter 912), downstream (meter 902) and far downstream (meter 905) of activities. The turbidity meters were removed from the river on November 29, 2004 after sand placement was completed.

Field Surface Water Data

Summary: Field data includes hand held turbidity measurements and TSS sampling taken at the turbidity monitoring stations between August 30, 2004 and November 24, and on November 29th and December 1st, 2004. The correlation between TSS and turbidity to date (12/01/04) shows a correlation coefficient of 0.88.

Attachment 2 - TSS and Field Turbidity Data and TSS/Turbidity Correlation

Water Treatment Data:

Summary: The effluent water is being analyzed for TSS, PCBs, Ammonia and BOD. Low level mercury was also analyzed once per week during normal operation activities.

Attachment 3 – Effluent Water Results

Post-Dredge Bathymetric QA Summary

Summary: Initial QA bathymetric data for Region VIII of Deposit A was included in the October 26, 2004 memorandum. Portions of Region VIII of Deposit A were re-dredged on December 1, 2004. A re-survey was performed on December 6, 2004. A map is currently being developed.

Sediment Sample Verification:

Summary: Post dredge sediment sample collection began on October 11, 2004 and finished on October 12, 2004 in Region IV of Deposit A. Post dredge sediment sample collection in Region VIII of Deposit A was completed on October 25, 2004. The sediment PCB results were included in the November 16, 2004 environmental data memorandum. A re-sampling event in Region VIII of Deposit A was performed on December 9, 2004. Three locations which were designated as “above target elevations” (ATE) and where PCB concentrations were higher than 1.5 ppm were resampled.

Sand Placement Verification:

Summary: Sand placement was initiated on November 10, 2004 and completed on November 24, 2004. Sand sampling of sand placement thickness was performed on November 30, 2004. Survey of the sand placement area was performed on December 6, 2004. A map is currently being developed.

Attachment: None

Note: Transmitted when available.

Dewatered Sediment Data

Summary: A total of 40 geotextile tubes and six tablets have been used to dewater dredged sediment. Dewatered sediment sampling and testing for PCB concentration of 32 geotextile tubes and 4 tubelets occurred on October 11, 2004 (for tube 4), December 3, 2004, December 6, 2004 and December 7, 2004.

Attachment 4 – Dewatered Sediment Results

Attachment 1

GW Partners, LLC

Lower Fox River Operable Unit 1

Summary of Air Sampling Results Calculated through December 14, 2004

All Results Reported in Total PCBs[1]

Dates	Sampling Round[2]	Location ID	Sample ID	Laboratory Method[3]	Laboratory Reporting Limit (Total µg of PCBs)	Laboratory Results (Total µg of PCBs)[4]	Total Air Volume Sampled (Total m^3)		Calculated PCB Conc'n ($\mu g/m^3$)[5]
11-16-04 to 11-19-04	31	GWP-1	PCB-01-31	EPA TO-4A	0.5	ND	1117.21	≤	0.00045
11-16-04 to 11-19-04	31	GWP-2	PCB-02-31	EPA TO-4A	0.5	ND	1125.61	≤	0.00044

Notes:

1. The laboratory reports the results in terms of significant Aroclors. Included are Aroclors 1016, 1221, 1232, 1242, 1248, 1254 and 1260. This table reports total PCB Aroclors and calculates a total PCB ambient air concentration.
2. Construction activity in the area caused the power line to be severed to both GWP-3 and GWP-4. At the time of sampling for Round 31, power had not been restored to these two stations. Therefore, sampling data were not available from either GWP-3 or GWP-4 for this sampling period. It should also be noted that Round 31 was the last set of samples that were collected until air sampling resumed on 12-9-04 for purposes of determining airborne concentrations of PCBs during removal of sediment from Geotextiles tubes.
3. EPA Compendium Method TO-4A is for determination of pesticides and polychlorinated biphenyls in ambient air using high volume polyurethane foam (PUF) sampling followed by gas chromoatographic/multi-detector detection (GC/MD).
4. ND = "None Detected". Given the laboratory reporting limit is 0.5 ug/sample, the concentration is calculated based on this value and reported as less than this concentration.
5. As a frame of reference, the airborne concentrations observed here could be compared to the airborne concentrations observed during the previous 56/57 Demonstration Project in 1999. During that study, concentrations collected within the property boundaries of the remediation area ranged from 0.0013 to 0.0216 ug/m^3 during dredging. Baseline concentrations, obtained prior to this same dredging project ranged from 0.0003 to 0.0016 ug/m^3.

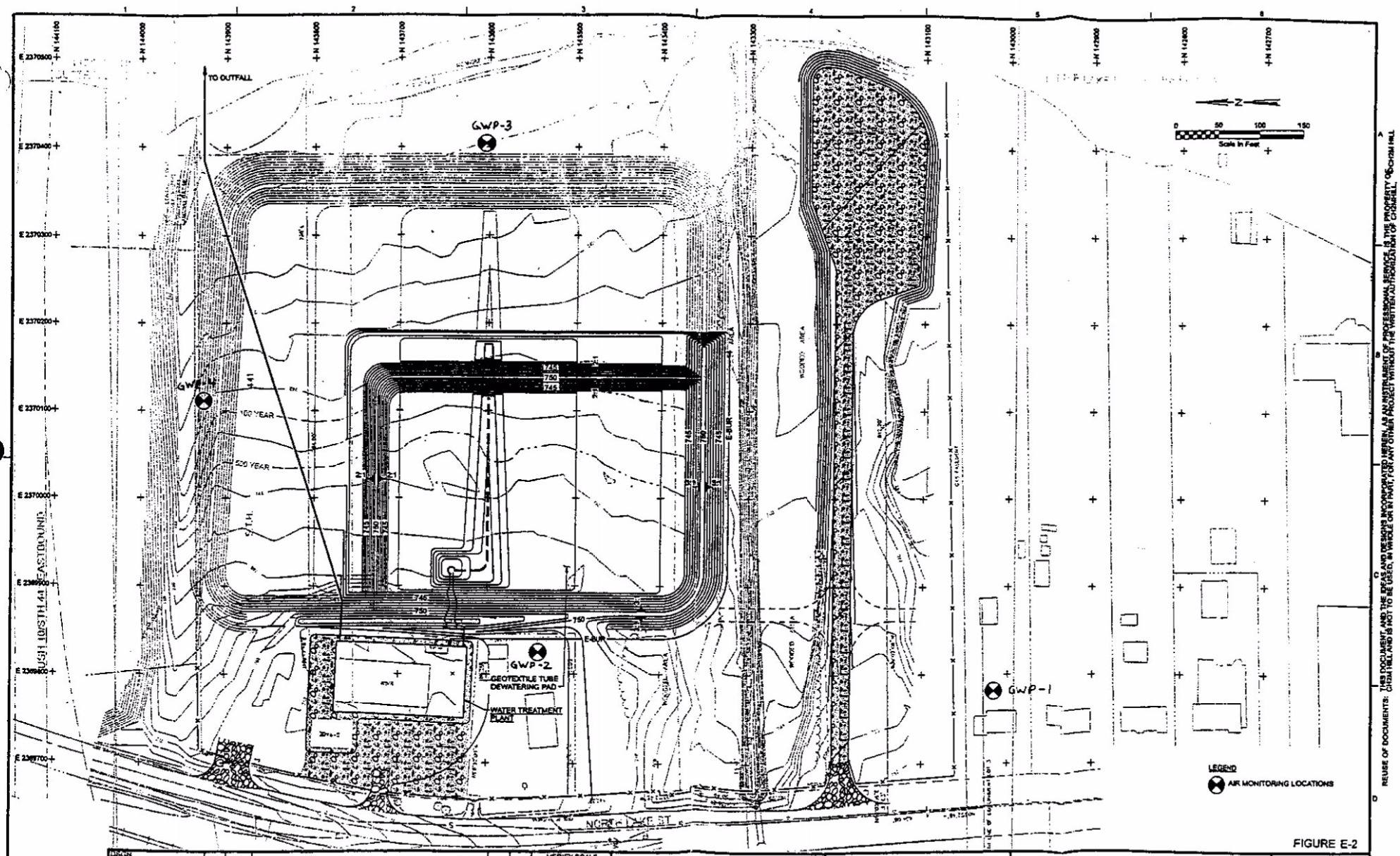


FIGURE E-2

DESIGN	C.M.LIETHEN				VERIFY SCALE	CH2MHILL	LOWER FOX RIVER (OU1) 2004 REMEDIAL ACTION TOWN OF MENASHA, WI G.W. PARTNERS, LLC	AIR MONITORING LOCATIONS	SHEET
DR	I.M.ZAEFKE				BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.				DWG C-1
CHK	D.J.PLOMB								DATE MAY 2004
APVD	S.D.LAVOLETTE	NO	DATE	REVISION	BY APVD				PROJ 315814.RA.01

FILENAME: tr5nc1416_183838.dgn PLOT DATE: 14-MAY-2004 PLOT TIME: 10:40:11

Attachment 2

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
8/30/2004	13:47	19.8	19	25	6	912	Calm (0-5 mph)	1 RA 04 DEWT SW 1 - 912
8/30/2004	13:54	19.1	24	22	-2	902	Calm (0-5 mph)	1 RA 04 DEWT SW 2 - 902
8/30/2004	14:01	20.1	18	23	5	905	Calm (0-5 mph)	1 RA 04 DEWT SW 3 - 905
8/31/2004	19:32	12.0	13.5	15	1.5	912	Calm (0-5 mph)	1 RA 04 DEWT SW 4 - 912
8/31/2004	19:40	18.2	23	25	2	902	Calm (0-5 mph)	1 RA 04 DEWT SW 5 - 902
				24				1 RA 04 DEWT SW 5Dup - 902
8/31/2004	19:47	12.8	13.5	17	3.5	905	Calm (0-5 mph)	1 RA 04 DEWT SW 6 - 905
				<1.0				1 RA 04 DEWT SW 7RINSE - 905
9/1/2004	12:56	24.2	23	28	5	912	Calm (0-5 mph)	1 RA 04 DEWT SW 8 - 912
9/1/2004	13:08	51.1	39	36	-3	902	Calm (0-5 mph)	1 RA 04 DEWT SW 9 - 902
9/1/2004	13:15	22.8	21.6	25	3.4	905	Calm (0-5 mph)	1 RA 04 DEWT SW 10 - 905
9/2/2004	12:16	22.4	23	26	3	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 11 - 912
9/2/2004	12:31	34.4	35	41	6	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 12 - 902
9/2/2004	12:44	33.3	30	31	1	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 13 - 905
9/3/2004	11:55	21.1	18	20	2	912	Calm (0-10 mph)	1 RA 04 DEWT SW 14 - 912
9/3/2004	12:05	39.7	30	28	-2	902	Calm (0-10 mph)	1 RA 04 DEWT SW 15 - 902
				28				1 RA 04 DEWT SW 15Dup - 902
9/3/2004	12:13	16.6	18	20	2	905	Calm (0-10 mph)	1 RA 04 DEWT SW 16 - 905
				<1.0				1 RA 04 DEWT SW 16RINSE - 905
9/7/2004	7:22	20	32.6		NA	902	Calm (0-10 mph)	NA
9/7/2004	7:26	20.7	33		NA	905	Calm (0-10 mph)	NA
9/7/2004	7:51	15.5	28.5		NA	912	Calm (0-10 mph)	NA
9/7/2004	11:52	18.7		24	5.3	912	Calm (0-10 mph)	1 RA 04 DEWT SW 18 - 912
9/7/2004	12:07	25		29	4	902	Calm (0-10 mph)	1 RA 04 DEWT SW 19 - 902
9/7/2004	12:15	22.7		23	0.3	905	Calm (0-10 mph)	1 RA 04 DEWT SW 20 - 905
9/8/2004	11:39	51.3		58	6.7	912	Windy (15-20 mph)	1 RA 04 DEWT SW 21 - 912
9/8/2004	11:50	36		42	6	902	Windy (15-20 mph)	1 RA 04 DEWT SW 22 - 902
9/8/2004	11:56	39.9		48	8.1	905	Windy (15-20 mph)	1 RA 04 DEWT SW 23 - 905
9/9/2004	11:11	31.8	33	25	-8	912	Calm (0-5 mph)	1 RA 04 DEWT SW 24 - 912
9/9/2004	11:20	24	26	25	-1	902	Calm (0-5 mph)	1 RA 04 DEWT SW 25 - 902
9/9/2004	11:35	23.2	26	24	-2	905	Calm (0-5 mph)	1 RA 04 DEWT SW 26 - 905
9/10/2004	9:36	23.5	26	21	-5	912	Windy (10-20 mph)	1 RA 04 DEWT SW 27 - 912
9/10/2004	9:48	1100	35	22	-13	902	Windy (10-20 mph)	1 RA 04 DEWT SW 28 - 902
				23				1 RA 04 DEWT SW 28Dup - 902
9/10/2004	10:00	657	30	24	-6	905	Windy (10-20 mph)	1 RA 04 DEWT SW 29 - 905
				<1.0				1 RA 04 DEWT SW 30RINSE - 905
9/11/2004	9:43	23	30	21	-9	912	Breezy (10-15 mph)	1 RA 04 DEWT SW 31 - 912
9/11/2004	9:53	21.7	32	24	-8	902	Breezy (10-15 mph)	1 RA 04 DEWT SW 32 - 902
9/11/2004	10:01	44.1	33	27	-6	905	Breezy (10-15 mph)	1 RA 04 DEWT SW 33 - 905
9/14/2004	10:43	18.8	20.5	23	2.5	912	Windy (10-20 mph)	1 RA 04 000A SW 34 - 912
9/14/2004	10:52	20	18.6	22	3.4	902	Windy (10-20 mph)	1 RA 04 000A SW 35 - 902
9/14/2004	11:01	16	16.8	21	4.2	905	Windy (10-20 mph)	1 RA 04 000A SW 36 - 905
9/15/2004	11:16	36.9	35.9	16	-19.9	912	Windy (15-25 mph)	1 RA 04 000A SW 37 - 912
9/15/2004	11:31	23.9	23	26	3	902	Windy (15-25 mph)	1 RA 04 000A SW 38 - 902
9/15/2004	11:45	24.9	25.5	26	0.5	905	Windy (15-25 mph)	1 RA 04 000A SW 39 - 905
9/16/2004	9:30	36	36	44	8	912	Breezy (5-15 mph)	1 RA 04 000A SW 40 - 912
9/16/2004	9:55	26	26	28	2	902	Breezy (5-15 mph)	1 RA 04 000A SW 41 - 902
				27				1 RA 04 000A SW 41Dup - 902
9/16/2004	10:03	34.5	34.5	34	-0.5	905	Breezy (5-15 mph)	1 RA 04 000A SW 42 - 905
				<1.0				1 RA 04 000A SW 43RINSE - 905
9/17/2004	10:32	18.2	36	15	-21	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 44 - 912
9/17/2004	10:58	17.6	17	16	-1	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 45 - 902
9/17/2004	11:08	15.3	17	14	-3	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 46 - 905
9/20/2004	12:57	39.2	36	45	9	912	Breezy (5-15 mph)	1 RA 04 000A SW 47 - 912
9/20/2004	12:31	32.4	37	35	-2	902	Breezy (5-15 mph)	1 RA 04 000A SW 48 - 902
				35				1 RA 04 000A SW 48Dup - 902
9/20/2004	12:22	31.7	36	36	0	905	Breezy (5-15 mph)	1 RA 04 000A SW 49 - 905
				1.2				1 RA 04 000A SW 50RINSE - 905
9/21/2004	10:08	39.4	38	40	2	905	Breezy (5-15 mph)	1 RA 04 000A SW 51 - 905
9/21/2004	10:21	35.4	42	38	-4	902	Breezy (5-15 mph)	1 RA 04 000A SW 52 - 902
9/21/2004	10:35	41.7	36	52	16	912	Breezy (5-15 mph)	1 RA 04 000A SW 53 - 912
9/22/2004	10:13	21.8	24	22	-2	905	Calm (0-5 mph)	1 RA 04 000A SW 54 - 905
9/22/2004	10:23	21.3	23	24	1	902	Calm (0-5 mph)	1 RA 04 000A SW 55 - 902
9/22/2004	10:38	18.5	36	28	-8	912	Calm (0-5 mph)	1 RA 04 000A SW 56 - 912
9/23/2004	11:11	15.1	19	16	-3	905	Breezy (5-15 mph)	1 RA 04 000A SW 57 - 905
9/23/2004	11:23	31.7	20	19	-1	902	Breezy (5-15 mph)	1 RA 04 000A SW 58 - 902
9/23/2004	12:17	26.6	27	29	2	912	Breezy (5-15 mph)	1 RA 04 000A SW 59 - 912
9/24/2004	9:35	18.2	19.5	22	2.5	905	Calm (0-5 mph)	1 RA 04 000A SW 60 - 905
9/24/2004	9:44	34.8	27.8	30	2.2	902	Calm (0-5 mph)	1 RA 04 000A SW 61 - 902
				30				1 RA 04 000A SW 61Dup - 902
9/24/2004	10:02	39.1	47	72	25	912	Calm (0-5 mph)	1 RA 04 000A SW 62 - 912
				1.3				1 RA 04 000A SW 63RINSE - 912

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
9/27/2004	11:10	11.6	12.5	14	1.5	905	Calm (0-5 mph)	1 RA 04 000A SW 64 - 905
9/27/2004	11:21	53.1	16.5	16	-0.5	902	Calm (0-5 mph)	1 RA 04 000A SW 65 - 902
9/27/2004	11:36	14.3	20	22	2	912	Calm (0-5 mph)	1 RA 04 000A SW 66 - 912
9/27/2004	11:46	11.6			NA	902	Calm (0-5 mph)	NA
9/27/2004	13:01	17.2			NA	902	Calm (0-5 mph)	NA
9/28/2004	11:31	33.9	38	32	-6	905	Windy (15-20 mph)	1 RA 04 000A SW 67 - 905
9/28/2004	11:38	38.7	41	33	-8	902	Windy (15-20 mph)	1 RA 04 000A SW 68 - 902
				33				1 RA 04 000A SW 68Dup - 902
9/28/2004	11:48	33.4	34	44	10	912	Windy (15-20 mph)	1 RA 04 000A SW 69 - 912
				1.2				1 RA 04 000A SW 70RINSE - 912
9/29/2004	11:38	17.3	20.5	20	-0.5	905	Calm (0-5 mph)	1 RA 04 000A SW 71 - 905
9/29/2004	11:46	19.3	27.8	23	-4.8	902	Calm (0-5 mph)	1 RA 04 000A SW 72 - 902
9/29/2004	12:22	14.2	14.5	33	18.5	912	Calm (0-5 mph)	1 RA 04 000A SW 73 - 912
9/29/2004	12:31	14.3			NA	902	Calm (0-5 mph)	NA
9/30/2004	10:20	24.6		24	-0.6	905	Calm (0-5 mph)	1 RA 04 000A SW 74 - 905
9/30/2004	10:30	18.6		22	3.4	902	Calm (0-5 mph)	1 RA 04 000A SW 75 - 902
9/30/2004	10:50	11.3		19	7.7	912	Calm (0-5 mph)	1 RA 04 000A SW 76 - 912
10/1/2004	10:34	24.9	27	22	-5	905	Breezy (10-15 mph)	1 RA 04 000A SW 77 - 905
10/1/2004	10:45	31.8	38	35	-3	902	Breezy (10-15 mph)	1 RA 04 000A SW 78 - 902
				34				1 RA 04 000A SW 78Dup - 902
10/1/2004	11:03	34	34	34	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 79 - 912
				<1.0				1 RA 04 000A SW 80RINSE - 912
10/4/2004	10:21	31.2	21.5	27	5.5	905	Breezy (10-15 mph)	1 RA 04 000A SW 81 - 905
10/4/2004	10:27	27.5	22.2	28	5.8	902	Breezy (10-15 mph)	1 RA 04 000A SW 82 - 902
10/4/2004	10:58	32.7	34	34	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 83 - 912
10/6/2004	9:09	24.5	22	26	4	905	Mild Breeze (5-10 mph)	1 RA 04 000A SW 84 - 905
10/6/2004	9:24	25.5	22	24	2	902	Mild Breeze (5-10 mph)	1 RA 04 000A SW 85 - 902
				22				1 RA 04 000A SW 85Dup - 902
10/6/2004	9:49	29	26	31	5	912	Mild Breeze (5-10 mph)	1 RA 04 000A SW 86 - 912
				<2.0				1 RA 04 000A SW 87RINSE - 912
10/7/2004	9:55	24.6	24	22	-2	905	Calm (0-7 mph)	1 RA 04 000A SW 88 - 905
10/7/2004	10:11	19.9	23	23	0	902	Calm (0-7 mph)	1 RA 04 000A SW 89 - 902
10/7/2004	10:34	72.9	70	90	20	912	Calm (0-7 mph)	1 RA 04 000A SW 90 - 912
10/8/2004	11:24	75.5	85	55	-30	905	Calm (0-8 mph)	1 RA 04 000A SW 91 - 905
10/8/2004	11:38	66.6	66	54	-12	902	Calm (0-8 mph)	1 RA 04 000A SW 92 - 902
10/8/2004	11:54	83.1	91	150	59	912	Calm (0-8 mph)	1 RA 04 000A SW 93 - 912
10/11/2004	10:36	45.9	46	29	-17	905	Calm (0-5 mph)	1 RA 04 000A SW 94 - 905
10/11/2004	10:58	40	43	32	-11	902	Calm (0-5 mph)	1 RA 04 000A SW 95 - 902
10/11/2004	11:18	72.1	90	85	-5	912	Calm (0-5 mph)	1 RA 04 000A SW 96 - 912
10/12/2004	12:27	28.3	27	28	1	905	Very Calm (0-3 mph)	1 RA 04 000A SW 97 - 905
10/12/2004	12:35	24.1	30	86	56	902	Very Calm (0-3 mph)	1 RA 04 000A SW 98 - 902
				62				1 RA 04 000A SW 98Dup - 902
10/12/2004	12:49	95.4	90	130	40	912	Very Calm (0-3 mph)	1 RA 04 000A SW 99 - 912
				<2.0				1 RA 04 000A SW 100RINSE - 912
10/13/2004	10:01	13.4	23	17	-6	905	Very Calm (0-3 mph)	1 RA 04 000A SW 101 - 905
10/13/2004	10:16	31.3	38	17	-21	902	Very Calm (0-3 mph)	1 RA 04 000A SW 102 - 902
10/13/2004	10:31	62.4	81	55	-26	912	Very Calm (0-3 mph)	1 RA 04 000A SW 103 - 912
10/14/2004	8:57	50.6	46	38	-8	905	Breezy (10-15 mph)	1 RA 04 000A SW 104 - 905
10/14/2004	9:05	52.3	45	42	-3	902	Breezy (10-15 mph)	1 RA 04 000A SW 105 - 902
10/14/2004	9:23	177.1	160	160	0	912	Breezy (10-15 mph)	1 RA 04 000A SW 106 - 912
10/18/2004	9:35	16.9	17	17	0	905	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 107 - 905
10/18/2004	9:45	15.2	17.8	18	0.2	902	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 108 - 902
10/18/2004	9:54	17.4	21.5	16	-5.5	912	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 109 - 912
10/19/2004	9:49	25.1	21	24	3	905	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 110 - 905
10/19/2004	9:29	15.3	16.5	17	0.5	902	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 111 - 902
				17				1 RA 04 POG2 SW 111Dup - 902
10/19/2004	9:21	17.7	16	13	-3	912	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 112 - 912
				<2.0				1 RA 04 POG2 SW 113RINSE - 912
10/20/2004	9:35	13.4	13.2	14	0.8	905	Very Calm (0-3 mph)	1 RA 04 POG2 SW 114 - 905
10/20/2004	9:46	15	14.5	15	0.5	902	Very Calm (0-3 mph)	1 RA 04 POG2 SW 115 - 902
10/20/2004	9:55	17.3	17.3	17	-0.3	912	Very Calm (0-3 mph)	1 RA 04 POG2 SW 116 - 912
10/21/2004	11:47	10.5	13	13	0	905	Calm (0-7 mph)	1 RA 04 POG2 SW 117 - 905
10/21/2004	12:01	13.6	13.3	14	0.7	902	Calm (0-7 mph)	1 RA 04 POG2 SW 118 - 902
10/21/2004	12:16	18.5	15.5	18	2.5	912	Calm (0-7 mph)	1 RA 04 POG2 SW 119 - 912
10/22/2004	9:54	25.2	24.8	27	2.2	905	Breezy (10-15 mph)	1 RA 04 POG2 SW 120 - 905
10/22/2004	10:00	20.1	21.9	24	3.9	902	Breezy (10-15 mph)	1 RA 04 POG2 SW 121 - 902
				24				1 RA 04 POG2 SW 121Dup - 902
10/22/2004	10:14	18.1	21.5	19	-2.5	912	Breezy (10-15 mph)	1 RA 04 POG2 SW 122 - 912
				<2.0				1 RA 04 POG2 SW 123RINSE - 912
10/25/2004	9:16	25	26	30	4	905	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 124 - 905
10/25/2004	9:24	19.2	21	22	1	902	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 125 - 902
10/25/2004	9:37	30.6	32.2	32	-0.2	912	Mild Breeze (5-10 mph)	1 RA 04 POG2 SW 126 - 912

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
10/26/2004	10:31	19.2	19.2	27	7.8	905	Windy (10-20 mph)	1 RA 04 POG2 SW 127 - 905
10/26/2004	10:40	30.2	29.9	35	5.1	902	Windy (10-20 mph)	1 RA 04 POG2 SW 128 - 902
				34				1 RA 04 POG2 SW 128Dup - 902
10/26/2004	10:50	25.8	26.9	29	2.1	912	Windy (10-20 mph)	1 RA 04 POG2 SW 129 - 912
				<1.0				1 RA 04 POG2 SW 130RINSE - 912
10/27/2004	8:40	17.7	18.8	20	1.2	905	Windy (10-20 mph)	1 RA 04 POG2 SW 131 - 905
10/27/2004	8:52	25.2	24	28	4	902	Windy (10-20 mph)	1 RA 04 POG2 SW 132 - 902
10/27/2004	9:03	29.8	28.7	30	1.3	912	Windy (10-20 mph)	1 RA 04 POG2 SW 133 - 912
10/28/2004	9:01	14.4	14	17	3	905	Calm (0-10 mph)	1 RA 04 POG2 SW 134 - 905
10/28/2004	9:07	15.1	14.4	17	2.6	902	Calm (0-10 mph)	1 RA 04 POG2 SW 135 - 902
10/28/2004	9:21	19.8	17.5	18	0.5	912	Calm (0-10 mph)	1 RA 04 POG2 SW 136 - 912
10/29/2004	10:56	36.4	34.8	43	8.2	905	Calm (0-5 mph)	1 RA 04 POG2 SW 137 - 905
10/29/2004	11:03	33.2	31.2	37	5.8	902	Calm (0-5 mph)	1 RA 04 POG2 SW 138 - 902
				34				1 RA 04 POG2 SW 138Dup - 902
10/29/2004	11:16	23.6	24.4	24	-0.4	912	Calm (0-5 mph)	1 RA 04 POG2 SW 139 - 912
				<1.0				1 RA 04 POG2 SW 140RINSE - 912
11/1/2004	11:01	19.9	21.7	25	3.3	905	Calm (0-5 mph)	1 RA 04 POG2 SW 141 - 905
11/1/2004	11:08	23.9	24.6	24	-0.6	902	Calm (0-5 mph)	1 RA 04 POG2 SW 142 - 902
11/1/2004	11:18	26.5	26.8	30	3.2	912	Calm (0-5 mph)	1 RA 04 POG2 SW 143 - 912
11/2/2004	8:41	19.3	17	20	3	905	Breezy (5-15 mph)	1 RA 04 POG2 SW 144 - 905
11/2/2004	8:49	18.3	16.2	19	2.8	902	Breezy (5-15 mph)	1 RA 04 POG2 SW 145 - 902
11/2/2004	8:59	34.4	35	39	4	912	Breezy (5-15 mph)	1 RA 04 POG2 SW 146 - 912
11/3/2004	9:04	8.5	11.2	12	0.8	905	Calm (0-5 mph)	1 RA 04 POG2 SW 147 - 905
11/3/2004	9:24	11.9	10.2	11	0.8	902	Calm (0-5 mph)	1 RA 04 POG2 SW 148 - 902
				11				1 RA 04 POG2 SW 148Dup - 902
11/3/2004	9:31	11.7	13.5	17	3.5	912	Calm (0-5 mph)	1 RA 04 POG2 SW 149 - 912
	9:33	11.7	12.6	<1.0		912		1 RA 04 POG2 SW 150RINSE - 912
11/4/2004	11:10	24	24.8	28	3.2	905	Mild Breeze (5-10 mph) with Gusts	1 RA 04 POG2 SW 151 - 905
11/4/2004	11:16	24.8	20.8	26	5.2	902	Mild Breeze (5-10 mph) with Gusts	1 RA 04 POG2 SW 152 - 902
11/4/2004	11:23	23.8	21.7	34	12.3	912	Mild Breeze (5-10 mph) with Gusts	1 RA 04 POG2 SW 153 - 912
11/5/2004	10:11	10.2	10.5	12	1.5	905	Breezy (5-15 mph)	1 RA 04 POG2 SW 154 - 905
11/5/2004	10:18	12.9	11.6	14	2.4	902	Breezy (5-15 mph)	1 RA 04 POG2 SW 155 - 902
11/5/2004	10:23	19.6	21	25	4	912	Breezy (5-15 mph)	1 RA 04 POG2 SW 156 - 912
11/8/2004	9:28	10.5	10.4	13	2.6	905	Calm (0-10 mph)	1 RA 04 POG2 SW 157 - 905
11/8/2004	9:38	11.6	10.9	13	2.1	902	Calm (0-10 mph)	1 RA 04 POG2 SW 158 - 902
11/8/2004	9:46	15	15.2	19	3.8	912	Calm (0-10 mph)	1 RA 04 POG2 SW 159 - 912
11/9/2004	9:23	9.9	10	13	3	905	Breezy (10-15 mph)	1 RA 04 POG2 SW 160 - 905
11/9/2004	9:39	13.8	10.7	13	2.3	902	Breezy (10-15 mph)	1 RA 04 POG2 SW 161 - 902
				13				1 RA 04 POG2 SW 162Dup - 902
11/9/2004	9:29	10.7	9.9	12	2.1	912	Breezy (10-15 mph)	1 RA 04 POG2 SW 163 - 912
				<0.25				1 RA 04 POG2 SW 164RINSE - 912
11/10/2004	9:06	20.3	24.2	30	5.8	905	Windy (15-20 mph)	1 RA 04 SP SW 164 - 905
11/10/2004	9:11	14.7	23.4	29	5.6	902	Windy (15-20 mph)	1 RA 04 SP SW 165 - 902
11/10/2004	9:17	20.7	21.1	24	2.9	912	Windy (15-20 mph)	1 RA 04 SP SW 166 - 912
11/11/2004	10:45	15.6	NA	30	14.4	905	Breezy (5-15 mph)	1 RA 04 SP SW 167 - 905
11/11/2004	10:50	13.6	NA	25	11.4	902	Breezy (5-15 mph)	1 RA 04 SP SW 168 - 902
11/11/2004	10:55	21.7	NA	27	5.3	912	Breezy (5-15 mph)	1 RA 04 SP SW 169 - 912
11/12/2004	11:25	13.8	17.2	20	2.8	905	Calm (0-5 mph)	1 RA 04 SP SW 170 - 905
11/12/2004	11:33	9.3	16.2	18	1.8	902	Calm (0-5 mph)	1 RA 04 SP SW 171 - 902
				19				1 RA 04 SP SW 171Dup - 902
11/12/2004	11:42	12	13.5	14	0.5	912	Calm (0-5 mph)	1 RA 04 SP SW 172 - 912
				<0.25				1 RA 04 SP SW 173RINSE - 912
11/15/2004	11:25	13.9	14.7	22	7.3	905	Calm (0-10 mph)	1 RA 04 SP SW 174 - 905
11/15/2004	11:30	11.2	18.9	28	9.1	902	Calm (0-10 mph)	1 RA 04 SP SW 175 - 902
11/15/2004	11:37	14	17.2	18	0.8	912	Calm (0-10 mph)	1 RA 04 SP SW 176 - 912
11/16/2004	9:21	13	16	20	4	905	Calm (0-5 mph)	1 RA 04 SP SW 177 - 905
11/16/2004	9:26	9.8	16.4	19	2.6	902	Calm (0-5 mph)	1 RA 04 SP SW 178 - 902
11/16/2004	9:31	14.6	15.6	18	2.4	912	Calm (0-5 mph)	1 RA 04 SP SW 179 - 912
11/17/2004	9:46	13.6	17	20	3	905	Very Calm (0-3 mph)	1 RA 04 SP SW 180 - 905
11/17/2004	10:01	14	19.6	20	0.4	902	Very Calm (0-3 mph)	1 RA 04 SP SW 181 - 902
				21				1 RA 04 SP SW 181Dup - 902
11/17/2004	10:11	15.3	16.7	19	2.3	912	Very Calm (0-3 mph)	1 RA 04 SP SW 182 - 912
				<0.25				1 RA 04 SP SW 183RINSE - 912
11/18/2004	10:14	14	15.6	17	1.4	905	Mild Breeze (5-10 mph)	1 RA 04 SP SW 184 - 905
11/18/2004	10:21	8.6	15	20	5	902	Mild Breeze (5-10 mph)	1 RA 04 SP SW 185 - 902
11/18/2004	10:30	14.7	15.2	16	0.8	912	Mild Breeze (5-10 mph)	1 RA 04 SP SW 186 - 912
11/22/2004	11:33	3	6.6	7.2	0.6	905	Breezy (5-15 mph)	1 RA 04 SP SW 187 - 905
11/22/2004	11:39	4.4	10.7	12	1.3	902	Breezy (5-15 mph)	1 RA 04 SP SW 188 - 902
11/22/2004	11:48	5.6	8.6	8.4	-0.2	912	Breezy (5-15 mph)	1 RA 04 SP SW 189 - 912
11/23/2004	12:54	11.3	15.3	18	2.7	905	Breezy (10-15 mph)	1 RA 04 SP SW 190 - 905
11/23/2004	13:00	10.4	17.5	23	5.5	902	Breezy (10-15 mph)	1 RA 04 SP SW 191 - 902
				22				1 RA 04 SP SW 191Dup - 902

GW Partners
Lower Fox River - OU-1
04G007

TSS and Field Turbidity - Draft and Preliminary

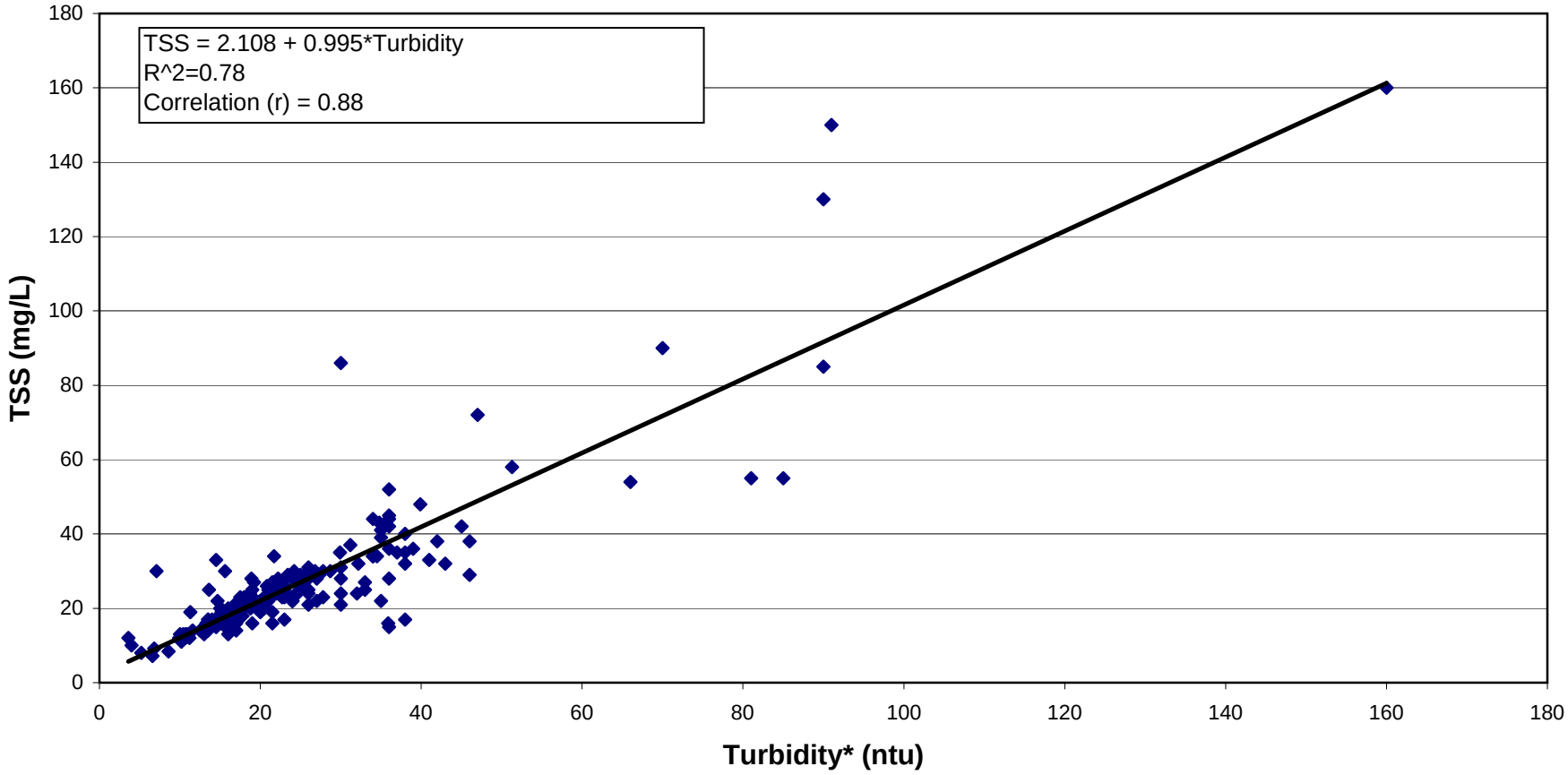
Date	Time	Telemetric Turbidity Reading (NTU)[1]	Hand-Held Turbidity Reading (NTU)	TSS (mg/L)	Difference Between TSS and Hand-held Turbidity [2]	Sonde Location	Comments: Wind Conditions	Comments: Sample ID
11/23/2004	13:05	11.6	15.1	20	4.9	912	Breezy (10-15 mph)	1 RA 04 SP SW 192 - 912
				<0.50				1 RA 04 SP SW 193RINSE - 912
11/24/2004	10:28	10.6	14.4	17	2.6	905	Windy (15-20 mph)	1 RA 04 SP SW 194 - 905
11/24/2004	10:32	6.7	15.7	15	-0.7	902	Windy (15-20 mph)	1 RA 04 SP SW 195 - 902
11/24/2004	10:35	9.6	12.6	14	1.4	912	Windy (15-20 mph)	1 RA 04 SP SW 196 - 912
11/29/2004	10:40	4	NA	10	6	905	Mild Breeze (5-10 mph)	1 RA 04 SP SW 197 - 905
11/29/2004	10:50	3.6	NA	12	8.4	902	Mild Breeze (5-10 mph)	1 RA 04 SP SW 198 - 902
11/29/2004	11:00	13.3	NA	16	2.7	912	Mild Breeze (5-10 mph)	1 RA 04 SP SW 199 - 912
12/1/2004	14:03	NA	5.2	8	2.8	~ 905 Location	Mild Breeze (5-10 mph)	1 RA 04 SP SW 200 - 905
12/1/2004	14:09	NA	7.1	30	22.9	~ 902 Location	Mild Breeze (5-10 mph)	1 RA 04 SP SW 201 - 902
				28				1 RA 04 SP SW 201Dup - 902
12/1/2004	14:16	NA	6.8	9.2	2.4	~912 Location	Mild Breeze (5-10 mph)	1 RA 04 SP SW 202 - 912
				0.6				1 RA 04 SP SW203RINSE - 912

[1] Sampling time approximate - readings collected on regular 15 minute intervals.

[2] Hand-held turbidity used in difference if available.

Data presented are Draft and Preliminary. These data have not undergone QA procedures and should not be viewed as final.

TSS/Turbidity Correlation
Data presented are Draft and Preliminary



Note: Includes data collected 8/30/04 - 12/01/04

*Data are hand held turbidity readings when available, otherwise telemetric reading sampled closest in time

Attachment 3

GW Partners
Lower Fox River - OU-1
04G007
Effluent Results - Draft and Preliminary

Date	Sample ID	TSS (mg/L)	BOD (mg/L)	Daily Flow (million gallons)[3]	Ammonia Nitrogen (mg/L)	Total PCBs (ug/L)	Mercury (Low-Level) (ng/L)
9/3/04	IRA04 DEWT EF1	21	-	-	<0.32	<0.26	-
9/7/04	IRA04 DEWT EF2	9.0	-	-	0.67	<0.24	-
9/9/04	IRA04 DEWT EF3	19	-	-	3.1	<0.24	-
9/10/04	IRA04 DEWT EF4	24	-	-	4.5	<0.32	-
9/11/04	IRA04 DEWT EF5	16	-	-	2.9	<0.25	-
9/13/04	IRA04 DEWT EF6	12	-	-	4.9	<0.26	-
9/15/04	IRA04 DEWT EF7	87	-	-	6.7	<0.25	-
9/16/04	IRA04 DEWT EF8	40	16	0.8	4.4	<0.25	-
9/17/04	IRA04 DEWT EF9	33	12	-	3.2	<0.25	-
9/17/04 Dup.	IRA04 DEWT EF9 DUP	31	-	-	3.1	-	-
9/20/04	IRA04 DEWT EF10	11	3.1	1.1	2.2	<0.26	-
9/20/04	IRA04 DEWT EF10 Dup	-	-	-	-	<0.25	-
9/21/04	IRA04 DEWT EF11	17	3.2	0.3	1.8	<0.25	-
9/21/04	IRA04 DEWT EF11 Dup	-	3.2	-	-	-	-
9/22/04	IRA04 DEWT EF12	17	6.6	0.4	1.5	<0.25	-
9/23/04	IRA04 DEWT EF13	20	3.4	1.0	1.5	<0.25	-
9/24/04	IRA04 DEWT EF14	18	3.1	0.4	1.4	<0.25	-
9/25/04	IRA04 DEWT EF15	19	<2.0	-	1.5	<0.25	-
9/27/04	IRA04 DEWT EF16	10	<2.0	0.6	1.7	<0.25	-
9/28/04	IRA04 DEWT EF17	11	4.2	0.7	1.5	<0.26	-
9/29/04	IRA04 DEWT EF18	13	4.4	0.6	1.4	<0.26	-
9/29/04	IRA04 DEWT EF18 Dup	10	4.3	-	1.4	<0.25	-
9/30/04	IRA04 DEWT EF19	11	5.4	0.5	1.4	<0.25	-
10/1/04	IRA04 DEWT EF20	12	5.9	0.8	<0.32	<0.25	-
10/2/04	IRA04 DEWT EF21	23	9.6	-	1.2	<0.24	-
10/4/04	-	-	-	0.6	-	-	-
10/5/04	IRA04 DEWT EF22	20	7.7	-	1.4	<0.25	-
10/7/04	IRA04 DEWT EF23	13	4.5	1.1	3.7	<0.24	-
10/8/04	IRA04 DEWT EF24	14	6.0	0.6	3.8	<0.25	-
10/9/04	IRA04 DEWT EF25	4.4	<2.0	-	4.9	<0.25	-
10/11/04	IRA04 DEWT EF26	3.3	<2.0	0.5	4.4	<0.25	-
10/12/04	IRA04 DEWT EF27	3.6	<2.0	0.2	4.7	<0.25	-
10/13/04	DEWT EF28	2.4	<2.0	0.5	5.1	<0.52	-
10/14/04	DEWT EF29	9.3	5.2	0.3	4.5	<0.25	-
10/14/04	DEWT EF29 Dup	-	-	-	4.5	-	-
10/15/04	DEWT EF30	10	8.0	-	3.9	-	-
10/18/04	-	-	-	0.7	-	-	-
10/19/04	DEWT EF31	10	7.6	0.6	8.8	<0.25	-
10/19/04	DEWT EF31 Dup.	10	7.4	-	-	<0.25	-
10/20/04	DEWT EF32	20	24	0.3	8.7	<0.25	-
10/21/04	DEWT EF33	12	14	0.6	12	<0.25	-
10/22/04	DEWT EF34	20	18	0.56	9.3	<0.25	-
10/23/04	DEWT EF35	6.5[Q]	6.9[H]	-	23	<0.25	-
10/24/04	DEWT EF36	<5.0[C]	3.2	0.34	28[N]	<0.25	-
10/26/04	DEWT EF37	3.8[Q]	3.6	0.3	34[N]	-	-
10/27/04	DEWT EF38	6.4[Q]	6.1	0.34	36	<0.28	-
10/28/04	DEWT EF39	6.4[Q]	4.0	0.31	39[N]	<0.25	3.25
10/28/04	DEWT EF39 TB	-	-	-	-	-	<0.197

GW Partners
Lower Fox River - OU-1
04G007
Effluent Results - Draft and Preliminary

Date	Sample ID	TSS (mg/L)	BOD (mg/L)	Daily Flow (million gallons)[3]	Ammonia Nitrogen (mg/L)	Total PCBs (ug/L)	Mercury (Low-Level) (ng/L)
10/29/04	DEWT EF40	8.2	4.3	0.5	35	<0.25	-
10/29/04	DEWT EF40 Dup.	6.8[Q]	4.3	-	42[N]	<0.25	-
10/30/04	DEWT EF41	5.6[Q]	2.8	0.5	36	<0.25	-
11/2/04	DEWT EF42	3.7	2.7	0.2	43	-	-
11/3/04	DEWT EF43	-	6.2	0.6	38	<0.25	-
11/4/04	DEWT EF44	11[Q]	12	0.47	24	<0.25	-
11/5/04	DEWT EF45	10	5.9	0.15	30	-	-
11/6/04	DEWT EF46	9	3.3	0.32	32	<0.25	2.05
11/7/04	DEWT EF46 TB	-	-	0	-	-	<0.197
11/8/04	DEWT EF47	-	-	0.059	34[N]	-	-
11/9/04	DEWT EF48	4.8	<2.0	0.49	-	<0.25	-
11/10/04	DEWT EF49	6	2.3	0.25	-	<0.26	2.6
11/10/04	DEWT EF49 DUP	5	2.1	-	-	-	-
11/10/04	DEWT EF49 FB	-	-	-	-	-	<0.197
11/10/04	DEWT EF49 TB	-	-	-	-	-	<0.97
11/17/04	DEWT EF50	1.1	<2.0	0.13	30	<0.25	-
11/17/04	DEWT EF50 Dup.	-	-	-	-	<0.24	-
12/2/04	DEWT EF51	0.6	<2.0	-	24	-	-
12/3/04	DEWT EF52	7.6	-	-	6.3	-	-
12/3/04	DEWT EF52 Dup.	8.4	-	-	6.3	-	-
Performance Expectation		5[1], 10[2]	10	1.2 - 1.7 (mgd)	67[4]	< 0.1 - 0.5	<0.2 to <0.5[5]

[1] Monthly average

[2] Daily maximum

[3] Daily flow measured from midnight to midnight through 10/26/04 then measured at approx 10:00 AM till 10:00 AM thereafter.

[4] Actual performance expectation is dependent on flow rate and pH of effluent. 67 mg/L is a conservative expectation.

[5] Previous Fox River dredging projects experienced effluents with low level mercury values ranging from nd to 6 ng/L.

[C] Elevated Detection Limit

[H] Preservatioin, extraction or analysis performed past hold time.

[N] Spiked Sample Recovery Not Within Control Limits.

[Q] Result between LOD and LOQ

Data received by 12/13/04
Data presented are Draft and Preliminary.
These data have not undergone QA procedures and should not be viewed as final.

Attachment 4

Lower Fox River OU1 2004 Remedial Action:
Dewatered Sediment Results[1]
December 14, 2004

Geotextile Tube Number	PCBs (ug/kg)	Percent Solids	Date Sampled[2]
1	170	51	11/23/2004
2	200	50	11/23/2004
3	800	43	11/23/2004
4	86	61	10/11/2004
5	1000	56	12/3/2004
6	590	64	12/3/2004
7	3200	35	12/3/2004
8	170	47	11/23/2004
9	120	51	12/7/2004
10			NS[3]
11	5100	28	12/3/2004
12			NS
13			NS
14	970	61	12/6/2004
15			NS
16	1100	46	12/3/2004
17			NS
18	7000	28	12/3/2004
19			NS
20	4200	33	11/23/2004
B1	5800	25	12/6/2004
B2	2400	34	12/6/2004
B3			NS
B4	4600	27	12/7/2004
B5	4300	34	12/3/2004
B6	5000	30	12/3/2004
B7	16000	27	12/6/2004
B8	5200	26	12/6/2004
B9	4200	30	12/6/2004
B10			NS
B11	5100	28	12/3/2004
C1	6200	26	12/7/2004
C2	5900	28	12/6/2004
C3	5400	30	12/6/2004
C4	4800	26	12/6/2004
C5	1800	26	12/6/2004
D1	1600	47	12/6/2004
D2	2500	38	12/3/2004
D3	2800	35	12/3/2004
E1	5000	30	12/7/2004
tubelet 1AA	2300	47	11/23/2004
tubelet 1BB	5100	33	11/23/2004
tubelet 2A	8300	28	11/23/2004
tubelet 1A			NS
tubelet 1B			NS
tubelet 3A	910	26	12/7/2004

notes:

[1] Data from En Chem Laboratory

[2] Sampled by Foth & Van Dyke

[3] Not Sampled

DRAFT

Foth & Van Dyke
Memorandum

December 21, 2004

TO: Ben Hung, WDNR
Greg Hill, WDNR
Gary Kincaid, WDNR
Jim Hahnenberg, EPA
Boldt Oversight Team

CC: Bill Hartman, GW Partners
Amie Obermeier, GW Partners
Sherman LaViolette, CH2MHill
Mike Jury, CH2MHill
Tara Konkle, Foth & Van Dyke
Steve Laszewski, Foth & Van Dyke

FR: Jim Hutchison, Foth & Van Dyke

RE: OU1 2004 Environmental Monitoring Data – December 10 through December 17, 2004

Attached are monitoring data for the one week period beginning December 10, 2004 and ending December 17, 2004 for the environmental monitoring activities pursuant to the 2004 RA Work Plan, May, 2004 and subsequent addendum. If you have any questions or comments please contact Jim Hutchison at (920) 497 2500 or at jhutchison@foth.com. In addition to the weekly data summary, project data will be provided in a database format following completion of the 2004 RA work.

Data presented are draft and preliminary. These data have not undergone QA procedures and should not be viewed as final.

Air Monitoring Data:

Summary: Air sampling at the four meter locations was initiated on August 7, 2004. Sampling consisted of a 72 hour sampling event per week. Continuous sampling began on August 30, 2004. The air monitoring was temporarily shut down on Friday, November 19, 2004. The air monitors were restarted on Monday, December 3, 2004. Dewatered sediment removal activities were initiated on Wednesday, December 8, 2004. No new data has been received since the last memorandum (December 14, 2004).

Surface Water Data:

Summary: River turbidity meters began operation on August 20, 2004 monitoring river turbidity (NTUs) every 15 minutes at three locations. The meters were located upstream (meter 912), downstream (meter 902) and far downstream (meter 905) of activities. The

turbidity meters were removed from the river on November 29, 2004 after sand placement was completed.

Field Surface Water Data:

Summary: Field data includes hand held turbidity measurements and TSS sampling taken at the turbidity monitoring stations between August 30, 2004 and November 24, and on November 29th and December 1st, 2004. The correlation between TSS and turbidity to date (12/01/04) shows a correlation coefficient of 0.88. No new data has been received since the last memorandum (December 14, 2004).

Water Treatment Data:

Summary: The effluent water is being analyzed for TSS, PCBs, Ammonia and BOD. Low level mercury was also analyzed once per week during normal operation activities. Currently the plant operates on an "as needed" basis. No new data has been received since the last memorandum (December 14, 2004).

Post-Dredge Bathymetric QA Summary:

Summary: Initial QA bathymetric data for Region VIII of Deposit A was included in the October 26, 2004 memorandum. Portions of Region VIII of Deposit A were re-dredged on December 1, 2004. A re-survey was performed on December 6, 2004.

Attachment 1 – Sub-Area A, Region VIII (R), Post Dredge Isopach Map, Figure 1A
Sub-Area A, Region VIII (R), Post Dredge Isopach Map, after Redredging, Figure 1B.

Sediment Sample Verification:

Summary: Post dredge sediment sample collection began on October 11, 2004 and finished on October 12, 2004 in Region IV of Deposit A. Post dredge sediment sample collection in Region VIII of Deposit A was completed on October 25, 2004. The sediment PCB results were included in the November 16, 2004 environmental data memorandum. A re-sampling event in Region VIII of Deposit A was performed on December 9, 2004. Three locations which were designated as "above target elevations" (ATE) and where PCB concentrations were higher than 1.5 ppm were resampled. Laboratory results are pending.

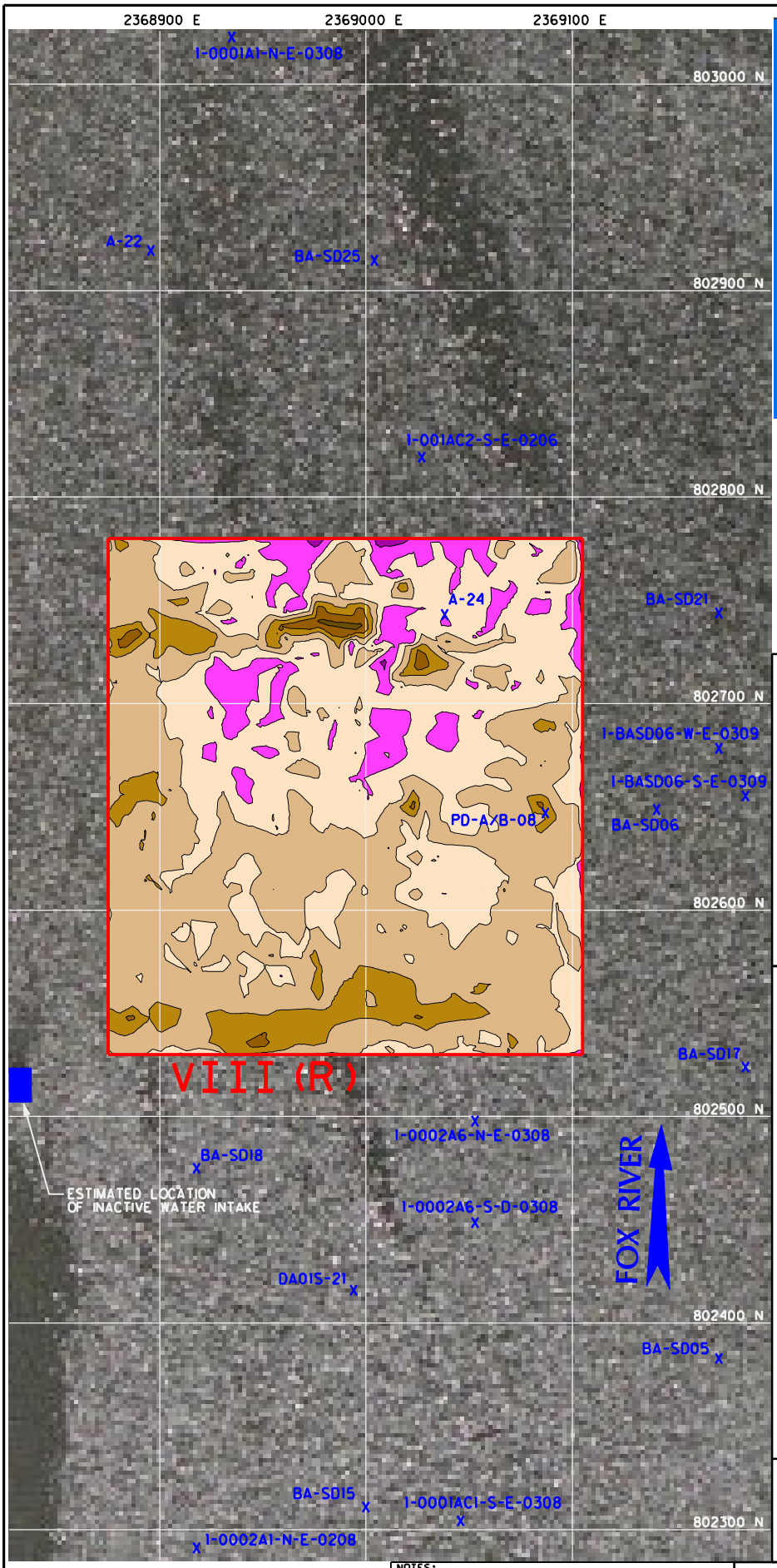
Sand Placement Verification:

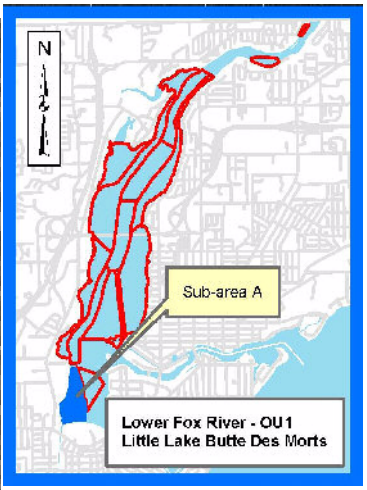
Summary: Sand placement was initiated on November 10, 2004 and completed on November 24, 2004. Sand sampling of sand placement thickness was performed on November 30, 2004. Survey of the sand placement area was performed on December 6, 2004. A map is currently being developed.

Dewatered Sediment Data:

Summary: A total of 40 geotextile tubes and six tablets have been used to dewater dredged sediment. Dewatered sediment sampling and testing for PCB concentration of 32 geotextile tubes and 4 tubelets occurred on October 11, 2004 (for tube 4), December 3, 2004, December 6, 2004 and December 7, 2004. Results were summarized in Attachment 4 of the memorandum dated December 14, 2004.

Attachment 1





N

SEDIMENT REMAINING

REGION VIII (R) INSIDE LIMITS
ABOVE 1 PPM RAL
24 C.Y.

SEDIMENT OVERCUT

REGION VIII (R) INSIDE LIMITS
BELOW 1 PPM RAL
1.130 C.Y.

SEDIMENT REMOVAL

REGION VIII (R) INSIDE LIMITS
3.440 C.Y.

REGION VIII (R) INSIDE & OUTSIDE LIMITS
3.700 C.Y.

LEGEND

SEDIMENT REMOVAL

- 0.5 - 0.9' REMAINING ABOVE 1 PPM RAL (0.2% OF AREA)
- 0.0 - 0.5' REMAINING ABOVE 1 PPM RAL (8% OF AREA)
- 0.0 - 0.5' CUT BELOW 1 PPM RAL (37% OF AREA)
- 0.5 - 1.0' CUT BELOW 1 PPM RAL (46% OF AREA)
- 1.0 - 1.5' CUT BELOW 1 PPM RAL (8% OF AREA)
- 1.5 - 2.0' CUT BELOW 1 PPM RAL (0.7% OF AREA)
- 2.0 - 2.2' CUT BELOW 1 PPM RAL (0.1% OF AREA)

BA-SD17 X CORING SAMPLE LOCATIONS

VIII (R) 2004 REMOVAL REGION (57,500 AQ. FT./1.32 ACRES)

0 25' 50' 75' 100'
BAR SCALE

Foth & Van Dyke

DRAFT

NOTES:

1. SEDIMENT ISOPACH CREATED BY USING GMS DERIVED 1 PPM DREDGE CONTOURS VS BRENNAN'S OCTOBER 18, 2004 SURVEY.
2. SEDIMENT REMOVAL VOLUMES OBTAINED USING BRENNAN'S SEPTEMBER 10 AND OCTOBER 18, 2004 SURVEYS.
3. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
4. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
5. SUB-AREA A DELINEATION FROM 2003 PRE-DESIGN SAMPLING PLAN.

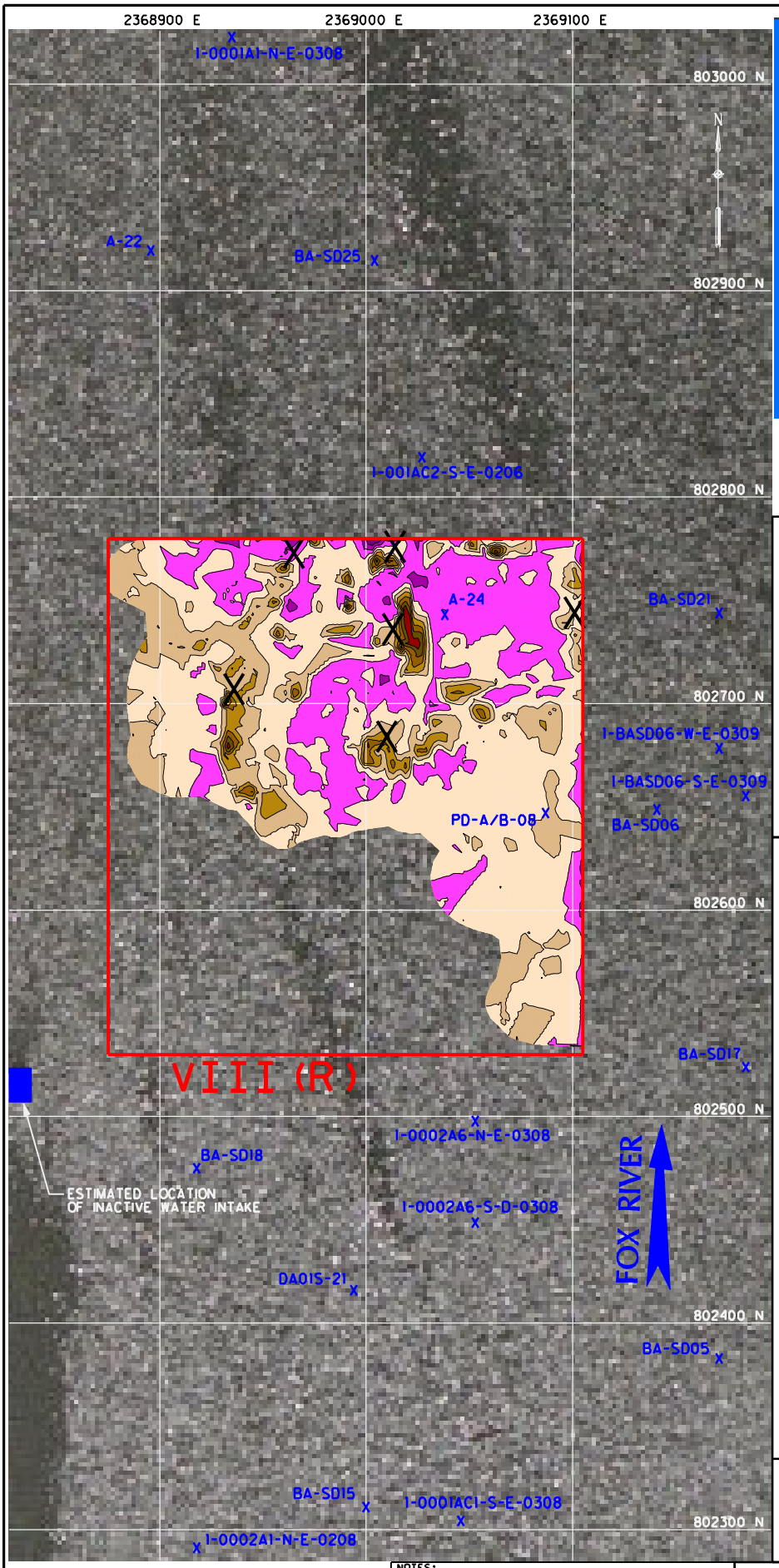
GW PARTNERS

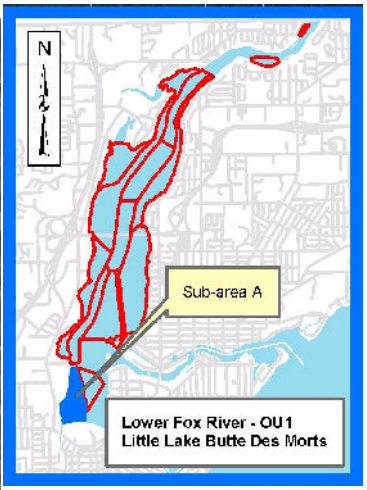
FIGURE 1A

LOWER FOX RIVER
SUB-AREA A - REGION VIII (R)
POST DREDGE ISOPACH MAP

Prepared By: Foth & Van Dyke	Date: OCT. 20, 2004
Drawn By: JRB2	Checked By: DMR	Scope: 04G007

I:\02g005\NAD 83 - NAVD 88 DATUM\GMS\Deposit-A\2g05fig3l.3d
12/21/2004 jrb2





TOTAL SEDIMENT REMOVAL

REGION VIII (R) INSIDE
DEC 6, 2004 SURVEY LIMITS
200 C.Y.

SEDIMENT CUT TO 1 PPM RAL

REGION VIII (R) INSIDE
DEC 6, 2004 SURVEY LIMITS
AND ABOVE 1 PPM RAL
60 C.Y.

SEDIMENT OVERCUT

REGION VIII (R) INSIDE
DEC 6, 2004 SURVEY LIMITS
AND BELOW 1 PPM RAL
140 C.Y.

LEGEND

SEDIMENT REMOVAL

- 1.0 - 1.5′ REMAINING ABOVE 1 PPM RAL
- 0.5 - 1.0′ REMAINING ABOVE 1 PPM RAL
- 0.0 - 0.5′ REMAINING ABOVE 1 PPM RAL
- 0.0 - 0.5′ CUT BELOW 1 PPM RAL
- 0.5 - 1.0′ CUT BELOW 1 PPM RAL
- 1.0 - 1.5′ CUT BELOW 1 PPM RAL
- 1.5 - 2.0′ CUT BELOW 1 PPM RAL
- 2.0 - 2.5′ CUT BELOW 1 PPM RAL
- 2.5 - 3.0′ CUT BELOW 1 PPM RAL

BA-SD17 X — CORING SAMPLE LOCATIONS

VIII (R) — 2004 REMOVAL REGION (57,500 SQ. FT./1.32 ACRES)

X — PREVIOUSLY ABOVE TARGET ELEVATION (ATE) LOCATIONS

0 25′ 50′ 75′ 100′
BAR SCALE

Foth & Van Dyke

NOTES:

1. SEDIMENT ISOPACH CREATED BY USING GMS DERIVED 1 PPM DREDGE CONTOURS VS BRENNAN'S DECEMBER 6, 2004 SURVEY.
2. SEDIMENT REMOVAL VOLUMES OBTAINED USING BRENNAN'S OCTOBER 18 AND DECEMBER 6, 2004 SURVEYS.
3. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
4. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
5. SUB-AREA A DELINEATION FROM 2003 PRE-DESIGN SAMPLING PLAN.

DRAFT

GW PARTNERS

FIGURE 1B
LOWER FOX RIVER
SUB-AREA A - REGION VIII (R)
POST DREDGE ISOPACH MAP

Prepared By: Foth & Van Dyke		Date: DECEMBER, 2004	
Drawn By: JRB2	Checked By: DMR	Scope: 04G007	

I:\02g005\NAD 83 - NAVD 88 DATUM\GMS\Deposit-A\2g05fig36.3d
12/21/2004 jrb2

DRAFT

Foth & Van Dyke
Memorandum

December 28, 2004

TO: Ben Hung, WDNR
Greg Hill, WDNR
Gary Kincaid, WDNR
Jim Hahnenberg, EPA
Boldt Oversight Team

CC: Bill Hartman, GW Partners
Amie Obermeier, GW Partners
Sherman LaViolette, CH2MHill
Mike Jury, CH2MHill
Tara Konkle, Foth & Van Dyke
Steve Laszewski, Foth & Van Dyke

FR: Jim Hutchison, Foth & Van Dyke

RE: OU1 2004 Environmental Monitoring Data – December 17 through December 24, 2004

Attached are monitoring data for the one week period beginning December 17, 2004 and ending December 24, 2004 for the environmental monitoring activities pursuant to the 2004 RA Work Plan, May, 2004 and subsequent addendum. If you have any questions or comments please contact Jim Hutchison at (920) 497 2500 or at jhutchison@foth.com. In addition to the weekly data summary, project data will be provided in a database format following completion of the 2004 RA work.

Data presented are draft and preliminary. These data have not undergone QA procedures and should not be viewed as final.

Air Monitoring Data:

Summary: Air sampling at the four meter locations was initiated on August 7, 2004. Sampling consisted of a 72 hour sampling event per week. Continuous sampling began on August 30, 2004. The air monitoring was temporarily shut down on Friday, November 19, 2004. The air monitors were restarted on Monday, December 6, 2004. Dewatered sediment removal activities were initiated on Wednesday, December 8, 2004. Monitor GWP-3 is currently not in service (since 12/22/04) due to motor (air pump) malfunction.

Attachment 1 – Summary of Sampling Results 12/06/04 through 12/12/04 and Monitor Location Sketch.

Surface Water Data:

Summary: River turbidity meters began operation on August 20, 2004 monitoring river turbidity (NTUs) every 15 minutes at three locations. The meters were located upstream (meter 912), downstream (meter 902) and far downstream (meter 905) of activities. The turbidity meters were removed from the river on November 29, 2004 after sand placement was completed.

Field Surface Water Data:

Summary: Field data includes hand held turbidity measurements and TSS sampling taken at the turbidity monitoring stations between August 30, 2004 and November 24, and on November 29th and December 1st, 2004. The correlation between TSS and turbidity to date (12/01/04) shows a correlation coefficient of 0.88. No new data has been received since the memorandum of December 14, 2004.

Water Treatment Data:

Summary: The effluent water is being analyzed for TSS, PCBs, Ammonia and BOD. Low level mercury was also analyzed once per week during normal operation activities. Currently the plant operates on an "as needed" basis. No new data has been received since the memorandum of December 14, 2004.

Post-Dredge Bathymetric QA Summary:

Summary: Initial QA bathymetric data for Region VIII of Deposit A was included in the October 26, 2004 memorandum. Portions of Region VIII of Deposit A were re-dredged on December 1, 2004. A re-survey was performed on December 6, 2004 and provided in the last memorandum (December 21, 2004).

Sediment Sample Verification:

Summary: Post dredge sediment sample collection began on October 11, 2004 and finished on October 12, 2004 in Region IV of Deposit A. Post dredge sediment sample collection in Region VIII of Deposit A was completed on October 25, 2004. The sediment PCB results were included in the November 16, 2004 environmental data memorandum. A re-sampling event in Region VIII of Deposit A was performed on December 9, 2004. Three locations which were designated as "above target elevations" (ATE) and where PCB concentrations were higher than 1.5 ppm were resampled. Laboratory results are pending.

Sand Placement Verification:

Summary: Sand placement was initiated on November 10, 2004 and completed on November 24, 2004. Sand sampling of sand placement thickness was performed on November 30, 2004. Survey of the sand placement area was performed on December 6, 2004.

Attachment 2 – Figure 1, Lower Fox River - 1 Acre Sand Placement Actual Sand Thickness Sample Locations.

Dewatered Sediment Data:

Summary: A total of 40 geotextile tubes and six tablets have been used to dewater dredged sediment. Dewatered sediment sampling and testing for PCB concentration of 32 geotextile tubes and 4 tubelets occurred on October 11, 2004 (for tube 4), December 3, 2004, December 6, 2004 and December 7, 2004. Results were summarized in Attachment 4 of the memorandum dated December 14, 2004.

Attachment 1

GW Partners, LLC

Lower Fox River Operable Unit 1

Summary of Air Sampling Results Calculated through December 28, 2004

All Results Reported in Total PCBs[1]

Dates	Sampling Round[2]	Location ID	Sample ID	Laboratory Method[2]	Laboratory Reporting Limit (Total µg of PCBs)	Laboratory Results (Total µg of PCBs)[3]	Total Air Volume Sampled (Total m^3)		Calculated PCB Conc'n ($\mu g/m^3$)[4]
12-6-04 to 12-9-04	32	GWP-1	PCB-01-32	EPA TO-4A	0.5	ND	1133.74	≤	0.00044
12-6-04 to 12-9-04	32	GWP-2	PCB-02-32	EPA TO-4A	0.5	ND	1138.84	≤	0.00044
12-6-04 to 12-9-04	32	GWP-3	PCB-03-32	EPA TO-4A	0.5	ND	1119.85	≤	0.00045
12-6-04 to 12-9-04	32	GWP-4	PCB-04-32	EPA TO-4A	0.5	ND	1124.70	≤	0.00044
12-9-04 to 12-12-04	33	GWP-1	PCB-01-33	EPA TO-4A	0.5	ND	1179.93	≤	0.00042
12-9-04 to 12-12-04	33	GWP-2	PCB-02-33	EPA TO-4A	0.5	ND	1189.23	≤	0.00042
12-9-04 to 12-12-04	33	GWP-3	PCB-03-33	EPA TO-4A	0.5	ND	1177.49	≤	0.00042
12-9-04 to 12-12-04	33	GWP-4	PCB-04-33	EPA TO-4A	0.5	ND	1193.66	≤	0.00042
12-9-04 to 12-12-04	33	N/A	Field Blank 13	EPA TO-4A	0.5	ND	N/A		N/A

Notes:

1. The laboratory reports the results in terms of significant Aroclors. Included are Aroclors 1016, 1221, 1232, 1242, 1248, 1254 and 1260. This table reports total PCB Aroclors and calculates a total PCB ambient air concentration.

2. EPA Compendium Method TO-4A is for determination of pesticides and polychlorinated biphenyls in ambient air using high volume polyurethane foam (PUF) sampling followed by gas chromoatographic/multi-detector detection (GC/MD).

3. ND = "None Detected". Given the laboratory reporting limit is 0.5 ug/sample, the concentration is calculated based on this value and reported as less than this concentration.

4. As a frame of reference, the airborne concentrations observed here could be compared to the airborne concentrations observed during the previous 56/57 Demonstration Project in 1999. During that study, concentrations collected within the property boundaries of the remediation area ranged from 0.0013 to 0.0216 ug/m^3 during dredging. Baseline concentrations, obtained prior to this same dredging project ranged from 0.0003 to 0.0016 ug/m^3.

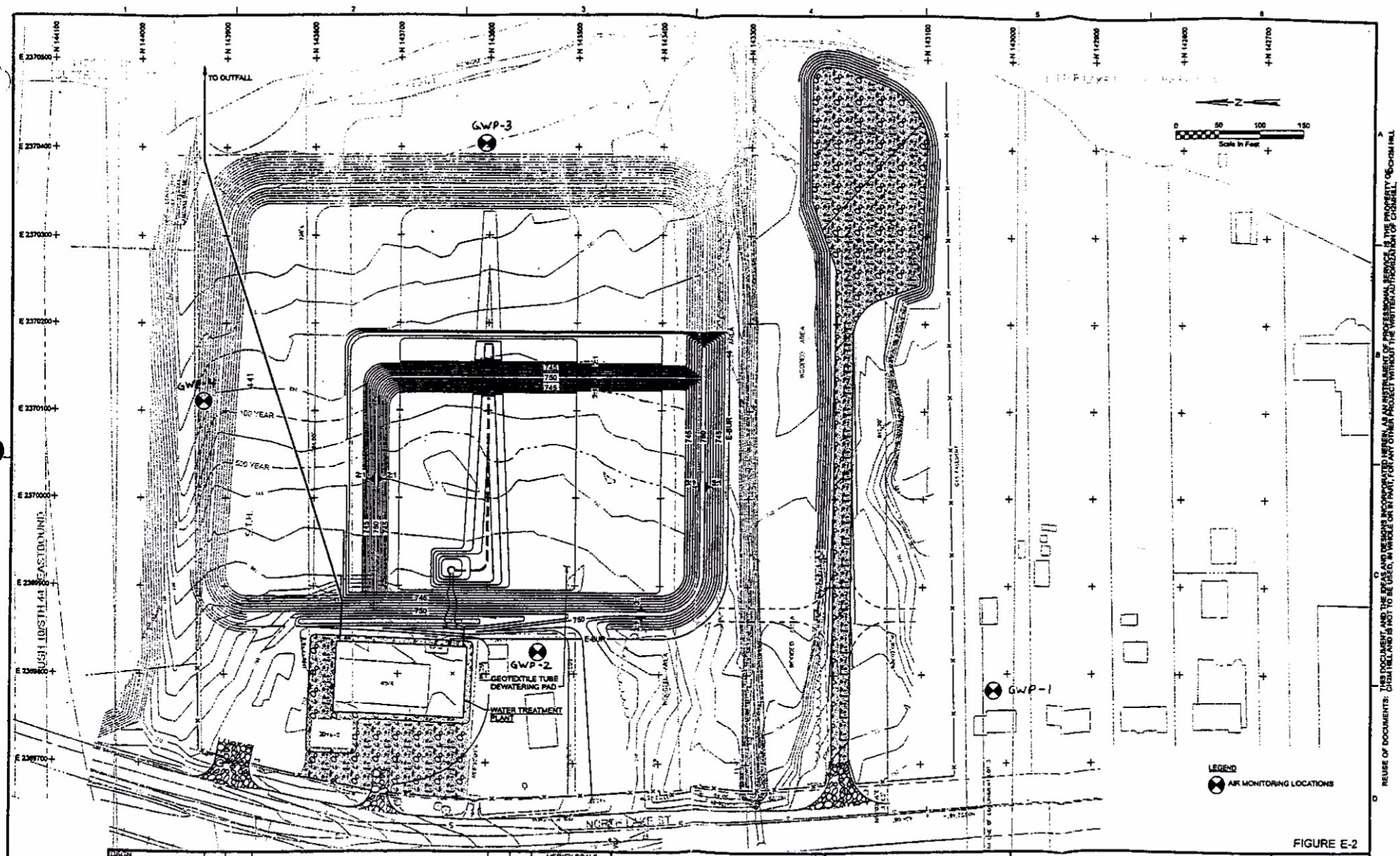


FIGURE E-2

DESIGN	C.M.LIETHEN				VERIFY SCALE	CH2MHILL	LOWER FOX RIVER (OU1) 2004 REMEDIAL ACTION TOWN OF MENASHA, WI G.W. PARTNERS, LLC	AIR MONITORING LOCATIONS	SHEET
DR	I.M.ZAEFKE				BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.				DWG C-1
CHK	D.J.PLOMB								DATE MAY 2004
APVD	S.D.LAVOLETTE	NO	DATE	REVISION	BY APVD				PROJ 315814.RA.01

FILENAME: tr5nc1416_183838.dgn PLOT DATE: 14-MAY-2004 PLOT TIME: 10:40:11

Attachment 2

2373900 E
2374000 E
2374100 E
2374200 E

815400 N
815300 N
815200 N
815100 N
815000 N

FOX RIVER

N

4A NO SAND
4B NO SAND
3A 6"
2A 3"
2B 5"
1A 7"
4C 4"
3C 11"
3B 4"
2C 5"
1C 3"
1B 4"
8A 4.5"
8B 10"
7A 7"
6A 4"
6B 4"
5A 5.5"
8C 7"
7C 4"
7B 6"
6C 4"
5C 5"
5B 4"

4 3 2 1
8 7 6 5
12 11 10 9
16 15 14 13

ELEVATION DIFFERENCES ①

- 0 - 6" 12-06-04 SURVEY BELOW 11-09-04 SURVEY
- 0 - 3" 12-06-04 SURVEY ABOVE 11-09-04 SURVEY
- 3 - 6" 12-06-04 SURVEY ABOVE 11-09-04 SURVEY
- 6 - 9" 12-06-04 SURVEY ABOVE 11-09-04 SURVEY
- 9 - 12" 12-06-04 SURVEY ABOVE 11-09-04 SURVEY
- 12 - 15" 12-06-04 SURVEY ABOVE 11-09-04 SURVEY
- 15" - 18"' 12-06-04 SURVEY ABOVE 11-09-04 SURVEY
- 18 - 24" 12-06-04 SURVEY ABOVE 11-09-04 SURVEY
- 24 - 30" 12-06-04 SURVEY ABOVE 11-09-04 SURVEY

LEGEND

14 SAND PLACEMENT REGION

X 6A (4") ACTUAL SAND THICKNESS TEST LOCATION WITH SAMPLED SAND THICKNESS

NOTE:
AT ALL SAMPLE LOCATIONS THERE IS A MINIMUM OF A 1" SAND/SEDIMENT MIX LAYER THAT IS NOT PART OF THE SAND THICKNESS MEASUREMENT.

0 20' 40' 60' 80'
BAR SCALE

DRAFT

Foth & Van Dyke

NOTES:

1. SEDIMENT ISOPACH CREATED BY USING BRENNAN'S 11-09-04 PRE-SAND PLACEMENT SURVEY VS BRENNAN'S DECEMBER 6, 2004 POST-SAND PLACEMENT SURVEY.
2. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
3. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.

GLATFELTER

FIGURE 1

LOWER FOX RIVER - 1 ACRE SAND PLACEMENT
ACTUAL SAND THICKNESS SAMPLE LOCATIONS

Prepared By: Foth & Van Dyke	Date: DEC. 2004	
Drawn By: JRB2	Checked By: JBH1	Scope: 04G007

DRAFT

Foth & Van Dyke

Memorandum

January 11, 2005

TO: Ben Hung, WDNR
Greg Hill, WDNR
Gary Kincaid, WDNR
Jim Hahnenberg, EPA
Boldt Oversight Team

CC: Bill Hartman, GW Partners
Amie Obermeier, GW Partners
Sherman LaViolette, CH2MHill
Mike Jury, CH2MHill
Tara Konkle, Foth & Van Dyke
Steve Laszewski, Foth & Van Dyke

FR: Jim Hutchison, Foth & Van Dyke

RE: OU1 2004 Environmental Monitoring Data – December 24 through January 8, 2005

Attached is monitoring data for a two week period beginning December 24, 2004 and ending January 8, 2005 for the environmental monitoring activities pursuant to the 2004 RA Work Plan, May, 2004 and subsequent addendum. If you have any questions or comments please contact Jim Hutchison at (920) 497 2500 or at jhutchison@foth.com. In addition to the weekly data summary, project data will be provided in a database format following completion of the 2004 RA work.

Data presented are draft and preliminary. These data have not undergone QA procedures and should not be viewed as final.

Air Monitoring Data:

Summary: Air sampling at the four meter locations was initiated on August 7, 2004. Sampling consisted of a 72 hour sampling event per week. Continuous sampling began on August 30, 2004. The air monitoring was temporarily shut down on Friday, November 19, 2004. The air monitors were restarted on Monday, December 6, 2004. Dewatered sediment removal activities were initiated on Wednesday, December 8, 2004. Monitor GWP-3 was out of service from 12/22/04 through 1/05/05.

Attachment 1 – Summary of Sampling Results 12/12/04 through 12/27/04 and Monitor Location Sketch.

Surface Water Data:

Summary: River turbidity meters began operation on August 20, 2004 monitoring river turbidity (NTUs) every 15 minutes at three locations. The meters were located upstream (meter 912), downstream (meter 902) and far downstream (meter 905) of activities. The turbidity meters were removed from the river on November 29, 2004 after sand placement was completed.

Field Surface Water Data:

Summary: Field data includes hand held turbidity measurements and TSS sampling taken at the turbidity monitoring stations between August 30, 2004 and November 24, and on November 29th and December 1st, 2004. The correlation between TSS and turbidity to date (12/01/04) shows a correlation coefficient of 0.88. No new data has been received since the memorandum of December 14, 2004.

Water Treatment Data:

Summary: The effluent water is being analyzed for TSS, PCBs, Ammonia and BOD. Low level mercury was also analyzed once per week during normal operation activities. Currently the plant operates on an "as needed" basis.

Attachment 2 – Effluent Water Results

Post-Dredge Bathymetric QA Summary:

Summary: Initial QA bathymetric data for Region VIII of Deposit A was included in the October 26, 2004 memorandum. Portions of Region VIII of Deposit A were re-dredged on December 1, 2004. A re-survey was performed on December 6, 2004 and provided in the last memorandum (December 21, 2004).

Sediment Sample Verification:

Summary: Post dredge sediment sample collection began on October 11, 2004 and finished on October 12, 2004 in Region IV of Deposit A. Post dredge sediment sample collection in Region VIII of Deposit A was completed on October 25, 2004. The sediment PCB results were included in the November 16, 2004 environmental data memorandum. A re-sampling event in Region VIII of Deposit A was performed on December 9, 2004. Three locations which were designated as "above target elevations" (ATE) and where PCB concentrations were higher than 1.5 ppm were resampled. Laboratory results are pending.

Sand Placement Verification:

Summary: Sand placement was initiated on November 10, 2004 and completed on November 24, 2004. Sand sampling of sand placement thickness was performed on November 30, 2004. Survey of the sand placement area was performed on December 6, 2004.

Dewatered Sediment Data:

Summary: A total of 40 geotextile tubes and six tablets have been used to dewater dredged sediment. Dewatered sediment sampling and testing for PCB concentration of 32 geotextile tubes and 4 tubelets occurred on October 11, 2004 (for tube 4), December 3, 2004, December 6, 2004 and December 7, 2004. Results were summarized in Attachment 4 of the memorandum dated December 14, 2004.

Attachment 1

GW Partners, LLC

Lower Fox River Operable Unit 1

Summary of Air Sampling Results Calculated through January 4, 2005

All Results Reported in Total PCBs[1]

Dates	Sampling Round[2]	Location ID	Sample ID	Laboratory Method[2]	Laboratory Reporting Limit (Total µg of PCBs)	Laboratory Results (Total µg of PCBs)[3]	Total Air Volume Sampled (Total m^3)		Calculated PCB Conc'n ($\mu g/m^3$)[4]
12-12-04 to 12-15-04	34	GWP-1	PCB-01-34	EPA TO-4A	0.5	ND	1152.91	≤	0.00043
12-12-04 to 12-15-04	34	GWP-2	PCB-02-34	EPA TO-4A	0.5	ND	1151.21	≤	0.00043
12-12-04 to 12-15-04	34	GWP-3	PCB-03-34	EPA TO-4A	0.5	ND	1121.29	≤	0.00045
12-12-04 to 12-15-04	34	GWP-4	PCB-04-34	EPA TO-4A	0.5	ND	1137.59	≤	0.00044
12-12-04 to 12-15-04	34	N/A	Field Blank 14	EPA TO-4A	0.5	ND	N/A		N/A

Notes:

1. The laboratory reports the results in terms of significant Aroclors. Included are Aroclors 1016, 1221, 1232, 1242, 1248, 1254 and 1260. This table reports total PCB Aroclors and calculates a total PCB ambient air concentration.

2. EPA Compendium Method TO-4A is for determination of pesticides and polychlorinated biphenyls in ambient air using high volume polyurethane foam (PUF) sampling followed by gas chromoatographic/multi-detector detection (GC/MD).

3. ND = "None Detected". Given the laboratory reporting limit is 0.5 ug/sample, the concentration is calculated based on this value and reported as less than this concentration.

4. As a frame of reference, the airborne concentrations observed here could be compared to the airborne concentrations observed during the previous 56/57 Demonstration Project in 1999. During that study, concentrations collected within the property boundaries of the remediation area ranged from 0.0013 to 0.0216 ug/m^3 during dredging. Baseline concentrations, obtained prior to this same dredging project ranged from 0.0003 to 0.0016 ug/m^3.

GW Partners, LLC

Lower Fox River Operable Unit 1

Summary of New Air Sampling Results Calculated through January 11, 2005

All Results Reported in Total PCBs[1]

Dates	Sampling Round[2]	Location ID	Sample ID[2]	Laboratory Method[3]	Laboratory Reporting Limit (Total µg of PCBs)	Laboratory Results (Total µg of PCBs)[4]	Total Air Volume Sampled (Total m^3)		Calculated PCB Conc'n ($\mu g/m^3$)[5]
12-15-04 to 12-18-04	35	GWP-1	PCB-01-35	EPA TO-4A	0.5	ND	1049.38	≤	0.00048
12-15-04 to 12-18-04	35	GWP-2	PCB-02-35	EPA TO-4A	0.5	ND	1059.15	≤	0.00047
12-15-04 to 12-18-04	35	GWP-3	PCB-03-35	EPA TO-4A	0.5	ND	1055.89	≤	0.00047
12-15-04 to 12-18-04	35	GWP-4	PCB-04-35	EPA TO-4A	0.5	ND	1052.51	≤	0.00048
12-12-04 to 12-15-04	35	N/A	Field Blank 15	EPA TO-4A	0.5	ND	N/A		N/A
12-18-04 to 12-21-04	36	GWP-1	PCB-01-36	EPA TO-4A	0.5	ND	1277.33	≤	0.00039
12-18-04 to 12-21-04	36	GWP-2	PCB-02-36	EPA TO-4A	0.5	ND	1272.54	≤	0.00039
12-18-04 to 12-21-04	36	GWP-3	PCB-03-36	EPA TO-4A	0.5	ND	1239.45	≤	0.00040
12-18-04 to 12-21-04	36	GWP-4	PCB-04-36	EPA TO-4A	0.5	ND	1275.29	≤	0.00039
12-21-04 to 12-24-04	37	GWP-1	PCB-01-37	EPA TO-4A	0.5	ND	1070.69	≤	0.00047
12-21-04 to 12-24-04	37	GWP-2	PCB-02-37	EPA TO-4A	0.5	ND	1107.97	≤	0.00045
12-21-04 to 12-24-04	37	GWP-4	PCB-04-37	EPA TO-4A	0.5	ND	1081.88	≤	0.00046
12-21-04 to 12-24-04	37	N/A	Field Blank 16	EPA TO-4A	0.5	ND	N/A		N/A
12-24-04 to 12-27-04	38	GWP-1	PCB-01-38	EPA TO-4A	0.5	ND	1225.25	≤	0.00041
12-24-04 to 12-27-04	38	GWP-2	PCB-02-38	EPA TO-4A	0.5	ND	1220.92	≤	0.00041
12-24-04 to 12-27-04	38	GWP-4	PCB-04-38	EPA TO-4A	0.5	ND	1238.57	≤	0.00040

Notes:

1. The laboratory reports the results in terms of significant Aroclors. Included are Aroclors 1016, 1221, 1232, 1242, 1248, 1254 and 1260. This table reports total PCB Aroclors and calculates a total PCB ambient air concentration.

2. During Rounds 37 and 38, Sampler GWP-3 malfunctioned and did not operate. A power outage and cold weather contributed to the problem. The malfunction was resolved in discussions with the manufacturer and GWP-3 was reactivated on January 5, 2005.

3. EPA Compendium Method TO-4A is for determination of pesticides and polychlorinated biphenyls in ambient air using high volume polyurethane foam (PUF) sampling followed by gas chromoatographic/multi-detector detection (GC/MD).

4. ND = "None Detected". Given the laboratory reporting limit is 0.5 ug/sample, the concentration is calculated based on this value and reported as less than this concentration.

5. As a frame of reference, the airborne concentrations observed here could be compared to the airborne concentrations observed during the previous 56/57 Demonstration Project in 1999. During that study, concentrations collected within the property boundaries of the remediation area ranged from 0.0013 to 0.0216 ug/m^3 during dredging. Baseline concentrations, obtained prior to this same dredging project ranged from 0.0003 to 0.0016 ug/m^3.

Air Monitoring Locations

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

Source: Wisconsin DNR and Winnebago Co. LIO

Foth & Van Dyke

M:\02g005\mxd\Air Monitoring Locations.mxd

N

GW PARTNERS

FIGURE 1

AIR MONITORING LOCATIONS

Scale: Feet 0 100 200	Date: JANUARY 11, 2003	
Drawn By: DAT	Checked By: JBH1	Scope: 04G007

Attachment 2

GW Partners
Lower Fox River - OU-1
04G007
Effluent Results - Draft and Preliminary

Date	Sample ID	TSS (mg/L)	BOD (mg/L)	Daily Flow (million gallons)[3]	Ammonia Nitrogen (mg/L)	Total PCBs (ug/L)	Mercury (Low-Level) (ng/L)
9/3/04	IRA04 DEWT EF1	21	-	-	<0.32	<0.26	-
9/7/04	IRA04 DEWT EF2	9.0	-	-	0.67	<0.24	-
9/9/04	IRA04 DEWT EF3	19	-	-	3.1	<0.24	-
9/10/04	IRA04 DEWT EF4	24	-	-	4.5	<0.32	-
9/11/04	IRA04 DEWT EF5	16	-	-	2.9	<0.25	-
9/13/04	IRA04 DEWT EF6	12	-	-	4.9	<0.26	-
9/15/04	IRA04 DEWT EF7	87	-	-	6.7	<0.25	-
9/16/04	IRA04 DEWT EF8	40	16	0.8	4.4	<0.25	-
9/17/04	IRA04 DEWT EF9	33	12	-	3.2	<0.25	-
9/17/04 Dup.	IRA04 DEWT EF9 DUP	31	-	-	3.1	-	-
9/20/04	IRA04 DEWT EF10	11	3.1	1.1	2.2	<0.26	-
9/20/04	IRA04 DEWT EF10 Dup	-	-	-	-	<0.25	-
9/21/04	IRA04 DEWT EF11	17	3.2	0.3	1.8	<0.25	-
9/21/04	IRA04 DEWT EF11 Dup	-	3.2	-	-	-	-
9/22/04	IRA04 DEWT EF12	17	6.6	0.4	1.5	<0.25	-
9/23/04	IRA04 DEWT EF13	20	3.4	1.0	1.5	<0.25	-
9/24/04	IRA04 DEWT EF14	18	3.1	0.4	1.4	<0.25	-
9/25/04	IRA04 DEWT EF15	19	<2.0	-	1.5	<0.25	-
9/27/04	IRA04 DEWT EF16	10	<2.0	0.6	1.7	<0.25	-
9/28/04	IRA04 DEWT EF17	11	4.2	0.7	1.5	<0.26	-
9/29/04	IRA04 DEWT EF18	13	4.4	0.6	1.4	<0.26	-
9/29/04	IRA04 DEWT EF18 Dup	10	4.3	-	1.4	<0.25	-
9/30/04	IRA04 DEWT EF19	11	5.4	0.5	1.4	<0.25	-
10/1/04	IRA04 DEWT EF20	12	5.9	0.8	<0.32	<0.25	-
10/2/04	IRA04 DEWT EF21	23	9.6	-	1.2	<0.24	-
10/4/04	-	-	-	0.6	-	-	-
10/5/04	IRA04 DEWT EF22	20	7.7	-	1.4	<0.25	-
10/7/04	IRA04 DEWT EF23	13	4.5	1.1	3.7	<0.24	-
10/8/04	IRA04 DEWT EF24	14	6.0	0.6	3.8	<0.25	-
10/9/04	IRA04 DEWT EF25	4.4	<2.0	-	4.9	<0.25	-
10/11/04	IRA04 DEWT EF26	3.3	<2.0	0.5	4.4	<0.25	-
10/12/04	IRA04 DEWT EF27	3.6	<2.0	0.2	4.7	<0.25	-
10/13/04	DEWT EF28	2.4	<2.0	0.5	5.1	<0.52	-
10/14/04	DEWT EF29	9.3	5.2	0.3	4.5	<0.25	-
10/14/04	DEWT EF29 Dup	-	-	-	4.5	-	-
10/15/04	DEWT EF30	10	8.0	-	3.9	-	-
10/18/04	-	-	-	0.7	-	-	-
10/19/04	DEWT EF31	10	7.6	0.6	8.8	<0.25	-
10/19/04	DEWT EF31 Dup.	10	7.4	-	-	<0.25	-
10/20/04	DEWT EF32	20	24	0.3	8.7	<0.25	-
10/21/04	DEWT EF33	12	14	0.6	12	<0.25	-
10/22/04	DEWT EF34	20	18	0.56	9.3	<0.25	-
10/23/04	DEWT EF35	6.5[Q]	6.9[H]	-	23	<0.25	-
10/24/04	DEWT EF36	<5.0[C]	3.2	0.34	28[N]	<0.25	-
10/26/04	DEWT EF37	3.8[Q]	3.6	0.3	34[N]	-	-
10/27/04	DEWT EF38	6.4[Q]	6.1	0.34	36	<0.28	-
10/28/04	DEWT EF39	6.4[Q]	4.0	0.31	39[N]	<0.25	3.25
10/28/04	DEWT EF39 TB	-	-	-	-	-	<0.197

GW Partners
Lower Fox River - OU-1
04G007
Effluent Results - Draft and Preliminary

Date	Sample ID	TSS (mg/L)	BOD (mg/L)	Daily Flow (million gallons)[3]	Ammonia Nitrogen (mg/L)	Total PCBs (ug/L)	Mercury (Low-Level) (ng/L)
10/29/04	DEWT EF40	8.2	4.3	0.5	35	<0.25	-
10/29/04	DEWT EF40 Dup.	6.8[Q]	4.3	-	42[N]	<0.25	-
10/30/04	DEWT EF41	5.6[Q]	2.8	0.5	36	<0.25	-
11/2/04	DEWT EF42	3.7	2.7	0.2	43	-	-
11/3/04	DEWT EF43	-	6.2	0.6	38	<0.25	-
11/4/04	DEWT EF44	11[Q]	12	0.47	24	<0.25	-
11/5/04	DEWT EF45	10	5.9	0.15	30	-	-
11/6/04	DEWT EF46	9	3.3	0.32	32	<0.25	2.05
11/7/04	DEWT EF46 TB	-	-	0	-	-	<0.197
11/8/04	DEWT EF47	-	-	0.059	34[N]	-	-
11/9/04	DEWT EF48	4.8	<2.0	0.49	-	<0.25	-
11/10/04	DEWT EF49	6	2.3	0.25	-	<0.26	2.6
11/10/04	DEWT EF49 DUP	5	2.1	-	-	-	-
11/10/04	DEWT EF49 FB	-	-	-	-	-	<0.197
11/10/04	DEWT EF49 TB	-	-	-	-	-	<0.97
11/17/04	DEWT EF50	1.1	<2.0	0.13	30	<0.25	-
11/17/04	DEWT EF50 Dup.	-	-	-	-	<0.24	-
12/2/04	DEWT EF51	0.6	<2.0	-	24	-	-
12/3/04	DEWT EF52	7.6	-	-	6.3	-	-
12/3/04	DEWT EF52 Dup.	8.4	-	-	6.3	-	-
12/21/04	DEWT EF53	1.2[Q]	<2.0	-	6.3	-	-
Performance Expectation		5[1], 10[2]	10	1.2 - 1.7 (mgd)	67[4]	< 0.1 - 0.5	<0.2 to <0.5[5]

[1] Monthly average

[2] Daily maximum

[3] Daily flow measured from midnight to midnight through 10/26/04 then measured at approx 10:00 AM till 10:00 AM thereafter.

[4] Actual performance expectation is dependent on flow rate and pH of effluent. 67 mg/L is a conservative expectation.

[5] Previous Fox River dredging projects experienced effluents with low level mercury values ranging from nd to 6 ng/L.

[C] Elevated Detection Limit

[H] Preservatioin, extraction or analysis performed past hold time.

[N] Spiked Sample Recovery Not Within Control Limits.

[Q] Result between LOD and LOQ

Data received by 12/13/04
Data presented are Draft and Preliminary.
These data have not undergone QA procedures and should not be viewed as final.

DRAFT

Foth & Van Dyke
Memorandum

January 25, 2005

TO: Ben Hung, WDNR
Greg Hill, WDNR
Gary Kincaid, WDNR
Jim Hahnenberg, EPA
Boldt Oversight Team

CC: Bill Hartman, GW Partners
Amie Obermeier, GW Partners
Sherman LaViolette, CH2MHill
Mike Jury, CH2MHill
Tara Konkle, Foth & Van Dyke
Steve Laszewski, Foth & Van Dyke

FR: Jim Hutchison, Foth & Van Dyke

RE: OU1 2004 Environmental Monitoring Data – January 8 through January 21, 2005

Attached is monitoring data for a two week period beginning January 8, 2004 and ending January 21, 2005 for the environmental monitoring activities pursuant to the 2004 RA Work Plan, May, 2004 and subsequent addendum. If you have any questions or comments please contact Jim Hutchison at (920) 497 2500 or at jhutchison@foth.com. In addition to the weekly data summary, project data will be provided in a database format following completion of the 2004 RA work.

Data presented are draft and preliminary. These data have not undergone QA procedures and should not be viewed as final.

Air Monitoring Data:

Summary: Air sampling at the four meter locations was initiated on August 7, 2004. Sampling consisted of a 72 hour sampling event per week. Continuous sampling began on August 30, 2004. The air monitoring was temporarily shut down on Friday, November 19, 2004. The air monitors were restarted on Monday, December 6, 2004. Dewatered sediment removal activities were initiated on Wednesday, December 8, 2004. Monitor GWP-3 was out of service from 12/22/04 through 1/05/05.

Attachment 1 – Summary of Sampling Results 12/27/04 through 1/11/05 and Monitor Location Sketch.

Surface Water Data:

Summary: River turbidity meters began operation on August 20, 2004 monitoring river turbidity (NTUs) every 15 minutes at three locations. The meters were located upstream (meter 912), downstream (meter 902) and far downstream (meter 905) of activities. The turbidity meters were removed from the river on November 29, 2004 after sand placement was completed.

Field Surface Water Data:

Summary: Field data includes hand held turbidity measurements and TSS sampling taken at the turbidity monitoring stations between August 30, 2004 and November 24, and on November 29th and December 1st, 2004. The correlation between TSS and turbidity to date (12/01/04) shows a correlation coefficient of 0.88. No new data has been received since the memorandum of December 14, 2004.

Water Treatment Data:

Summary: The effluent water is being analyzed for TSS, PCBs, Ammonia and BOD. Low level mercury was also analyzed once per week during normal operation activities. Currently the plant operates on an "as needed" basis.

Post-Dredge Bathymetric QA Summary:

Summary: Initial QA bathymetric data for Region VIII of Deposit A was included in the October 26, 2004 memorandum. Portions of Region VIII of Deposit A were re-dredged on December 1, 2004. A re-survey was performed on December 6, 2004 and provided in the last memorandum (December 21, 2004).

Sediment Sample Verification:

Summary: Post dredge sediment sample collection began on October 11, 2004 and finished on October 12, 2004 in Region IV of Deposit A. Post dredge sediment sample collection in Region VIII of Deposit A was completed on October 25, 2004. The sediment PCB results were included in the November 16, 2004 environmental data memorandum. A re-sampling event in Region VIII of Deposit A was performed on December 9, 2004. Three locations which were designated as "above target elevations" (ATE) and where PCB concentrations were higher than 1.5 ppm were resampled.

Attachment 2 – Sub-area A Region VIII (R) Post Re-Dredge Sediment Sample Results

Sand Placement Verification:

Summary: Sand placement was initiated on November 10, 2004 and completed on November 24, 2004. Sand sampling of sand placement thickness was performed on November 30, 2004. Survey of the sand placement area was performed on December 6, 2004.

Dewatered Sediment Data:

Summary: A total of 40 geotextile tubes and six tablets have been used to dewater dredged sediment. Dewatered sediment sampling and testing for PCB concentration of 32 geotextile tubes and 4 tubelets occurred on October 11, 2004 (for tube 4), December 3, 2004, December 6, 2004 and December 7, 2004. Results were summarized in Attachment 4 of the memorandum dated December 14, 2004.

Attachment 1

GW Partners, LLC

Lower Fox River Operable Unit 1

Summary of New Air Sampling Results Calculated through January 25, 2005

All Results Reported in Total PCBs[1]

Dates	Sampling Round[2]	Location ID	Sample ID[2]	Laboratory Method[3]	Laboratory Reporting Limit (Total µg of PCBs)	Laboratory Results (Total µg of PCBs)[4]	Total Air Volume Sampled (Total m^3)		Calculated PCB Conc'n ($\mu g/m^3$)[5]
12-27-04 to 12-30-04	38A	GWP-1	PCB-01-38A	EPA TO-4A	0.5	ND	1090.84	≤	0.00046
12-27-04 to 12-30-04	38A	GWP-2	PCB-02-38A	EPA TO-4A	0.5	ND	1085.11	≤	0.00046
12-27-04 to 12-30-04	38A	GWP-4	PCB-04-38A	EPA TO-4A	0.5	ND	1081.35	≤	0.00046
12-30-04 to 1-2-05	39	GWP-1	PCB-01-39	EPA TO-4A	0.5	ND	1081.27	≤	0.00046
12-30-04 to 1-2-05	39	GWP-2	PCB-02-39	EPA TO-4A	0.5	ND	1084.68	≤	0.00046
12-30-04 to 1-2-05	39	GWP-4	PCB-04-39	EPA TO-4A	0.5	ND	1071.53	≤	0.00047
1-2-05 to 1-5-05	40	GWP-1	PCB-01-40	EPA TO-4A	0.5	ND	1203.03	≤	0.00042
1-2-05 to 1-5-05	40	GWP-2	PCB-02-40	EPA TO-4A	0.5	ND	1219.34	≤	0.00041
1-2-05 to 1-5-05	40	GWP-4	PCB-04-40	EPA TO-4A	0.5	ND	1188.24	≤	0.00042
1-2-05 to 1-5-05	40	N/A	Field Blank 17	EPA TO-4A	0.5	ND	N/A		N/A
1-5-05 to 1-8-05	41	GWP-1	PCB-01-41	EPA TO-4A	0.5	ND	995.82	≤	0.00050
1-5-05 to 1-8-05	41	GWP-2	PCB-02-41	EPA TO-4A	0.5	ND	1078.17	≤	0.00046
1-5-05 to 1-8-05	41	GWP-3	PCB-03-41	EPA TO-4A	0.5	ND	1045.73	≤	0.00048
1-5-05 to 1-8-05	41	GWP-4	PCB-04-41	EPA TO-4A	0.5	ND	1075.32	≤	0.00046
1-8-05 to 1-11-05	42	GWP-1	PCB-01-42	EPA TO-4A	0.5	ND	1144.43	≤	0.00044
1-8-05 to 1-11-05	42	GWP-2	PCB-02-42	EPA TO-4A	0.5	ND	1168.11	≤	0.00043
1-8-05 to 1-11-05	42	GWP-3	PCB-03-42	EPA TO-4A	0.5	ND	1127.22	≤	0.00044
1-8-05 to 1-11-05	42	GWP-4	PCB-04-42	EPA TO-4A	0.5	ND	1137.01	≤	0.00044

Notes:

1. The laboratory reports the results in terms of significant Aroclors. Included are Aroclors 1016, 1221, 1232, 1242, 1248, 1254 and 1260. This table reports total PCB Aroclors and calculates a total PCB ambient air concentration.

2. During Rounds 38A, 39 and 40 Sampler GWP-3 malfunctioned and did not operate. A power outage and cold weather contributed to the problem. The malfunction was resolved in discussions with the manufacturer and GWP-3 was reactivated on January 5, 2005.

3. EPA Compendium Method TO-4A is for determination of pesticides and polychlorinated biphenyls in ambient air using high volume polyurethane foam (PUF) sampling followed by gas chromoatographic/multi-detector detection (GC/MD).

4. ND = "None Detected". Given the laboratory reporting limit is 0.5 ug/sample, the concentration is calculated based on this value and reported as less than this concentration.

5. As a frame of reference, the airborne concentrations observed here could be compared to the airborne concentrations observed during the previous 56/57 Demonstration Project in 1999. During that study, concentrations collected within the property boundaries of the remediation area ranged from 0.0013 to 0.0216 ug/m^3 during dredging. Baseline concentrations, obtained prior to this same dredging project ranged from 0.0003 to 0.0016 ug/m^3.

Air Monitoring Locations

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

Source: Wisconsin DNR and Winnebago Co. LIO

Foth & Van Dyke

M:\02g005\mxd\Air Monitoring Locations.mxd

N

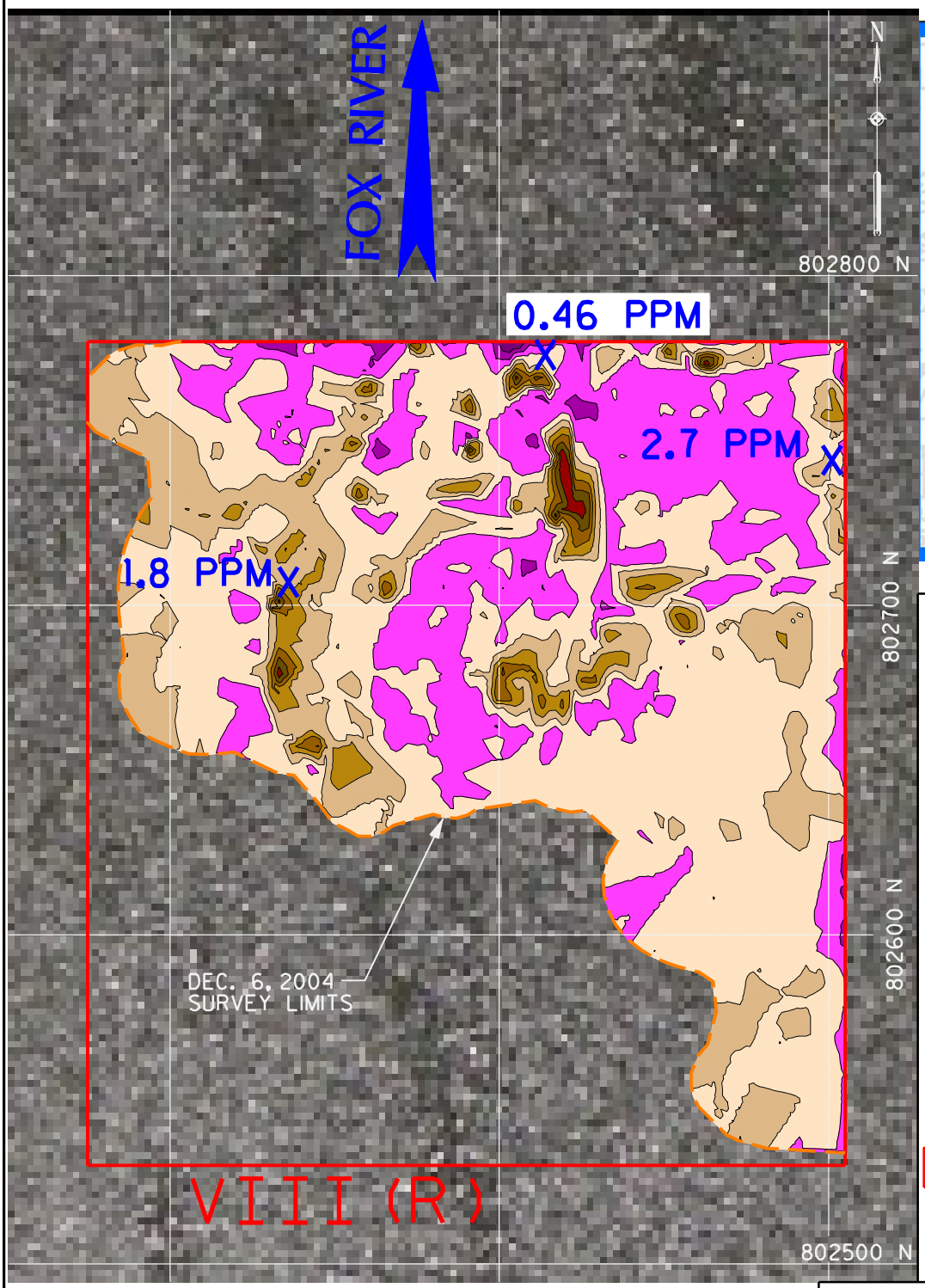
GW PARTNERS

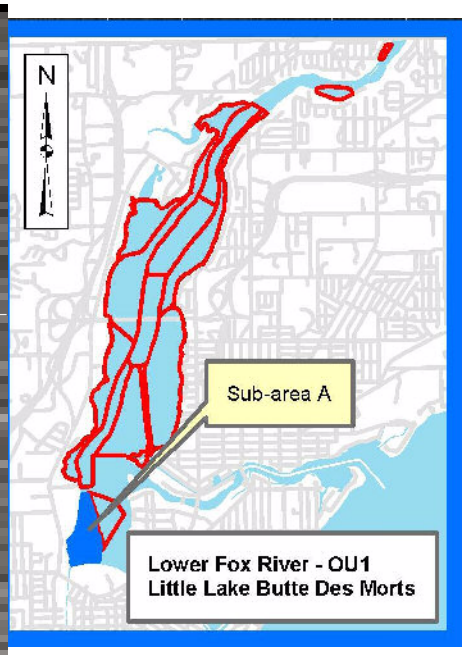
FIGURE 1

AIR MONITORING LOCATIONS

Scale: Feet 0 100 200	Date: JANUARY 11, 2003	
Drawn By: DAT	Checked By: JBH1	Scope: 04G007

Attachment 2





LEGEND

SEDIMENT REMOVAL

- 1.0 - 1.5′ REMAINING ABOVE 1 PPM RAL
- 0.5 - 1.0′ REMAINING ABOVE 1 PPM RAL
- 0.0 - 0.5′ REMAINING ABOVE 1 PPM RAL
- 0.0 - 0.5′ CUT BELOW 1 PPM RAL
- 0.5 - 1.0′ CUT BELOW 1 PPM RAL
- 1.0 - 1.5′ CUT BELOW 1 PPM RAL
- 1.5 - 2.0′ CUT BELOW 1 PPM RAL
- 2.0 - 2.5′ CUT BELOW 1 PPM RAL
- 2.5 - 3.0′ CUT BELOW 1 PPM RAL

VIII (R) — 2004 REMOVAL REGION (57,500 SQ. FT./1.32 ACRES)

X — PREVIOUSLY ABOVE TARGET ELEVATION (ATE) LOCATIONS WITH NEW SEDIMENT PPM READINGS

0 25′ 50′ 75′ 100′

BAR SCALE

DRAFT

Foth & Van Dyke

NOTES:

1. SEDIMENT ISOPACH CREATED BY USING GMS DERIVED 1 PPM DREDGE CONTOURS VS BRENNAN'S DECEMBER 6, 2004 SURVEY.
2. SEDIMENT REMOVAL VOLUMES OBTAINED USING BRENNAN'S OCTOBER 18 AND DECEMBER 6, 2004 SURVEYS.
3. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
4. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
5. SUB-AREA A DELINEATION FROM 2003 PRE-DESIGN SAMPLING PLAN.

GW PARTNERS

FIGURE 1

LOWER FOX RIVER
SUB-AREA A - REGION VIII (R)
POST RE-DREDGE SAMPLE RESULTS

Prepared By: Foth & Van Dyke	Date: JANUARY, 2005
Drawn By: JRB2	Checked By: DMR	Scope: 04G007

I:\02g005\NAD 83 - NAVD 88 DATUM\GMS\Deposit-A\2g05fig48.3d
1/25/2005 jrb2

Appendix E
Post-dredge and Post-sand Placement Survey Data

January 26, 2005

DRAFT

Mr. Ben Hung
Wisconsin Department of Natural Resources
101 S. Webster Street
P.O. Box 7921
Madison, WI 53707-7921

Dear Ben:

RE: Lower Fox River OU 1 2004 Quality Assurance (QA) Bathymetry Results

As requested during our January 4, 2005 Tuesday project call, this letter detailing Quality Assurance (QA) bathymetry results is being forwarded to the Wisconsin Department of Natural Resources (WDNR). The purpose of the letter is to present 2004 OU1 post-dredge and post-sand QA bathymetric results that have previously been discussed during operations meetings at the site, most of which have already been provided to WDNR as part of the weekly environmental monitoring data packets. QA bathymetric results are distinguished from Quality Control (QC) data which are routinely collected by dredging contractor during the implementation of a dredging project.

The results address Sub-Area A Regions IV and VIII(R), Sub-Area POG2 and the sand placement test area in Sub-Area E4. The results were previously provided in draft form as field work progress documents to evaluate the contractor's performance. The bathymetric results provided here have been refined from the field work progress documents to be more easily understood by those not intimately involved with the day to day operations. These findings will also be presented in the project's year-end report.

Sub-Area A Region IV

A pre-dredge survey of the Region IV area was completed by Brennan on September 3, 2004. Brennan, the dredging contractor, was instructed to complete the pre-dredge survey due to a system error in the Onyx 2004 bathymetry which resulted in an approximate 1.4 foot datum error, identified by Foth & Van Dyke on August 26, 2004.

CH2MHILL conducted poling during the Brennan pre-dredge bathymetric survey at six locations. Poling provides one mechanism by which to evaluate the vertical accuracy of the bathymetric surveys. The poling depths were compared to adjacent bathymetric sounding readings observed by Brennan at the time of the poling, with the boat held stationary. The average variation between poling and sonar soundings was approximately 0.02 ft, with poling indicating a higher sediment elevation. Table 1 summarizes the comparisons between poling and bathymetric survey results.

Following dredging, a post-dredge bathymetric survey was conducted by Brennan on October 5, 2004. As a QA measure Foth & Van Dyke was on board the bathymetric survey vessel during the post-dredge survey.

Foth & Van Dyke observed the survey procedures and conducted poling at 12 locations in Region IV. The poling depths were compared to adjacent bathymetric sounding readings observed by Brennan at the time of the poling, with the boat held stationary. The average variation between poling and sonar soundings was approximately 0.04 ft, with poling indicating a higher sediment elevation. Table 1 summarizes the comparisons between poling and bathymetric survey results.

These same poling results were then converted to elevations and used as a check against the elevations recorded by Brennan during the bathymetric survey. Results of the poling elevations, compared to the nearest Brennan survey points (SP), are shown on attached Figure 1A. The top of sediment elevations (MP) of the digital terrain model (DTM) generated by Foth & Van Dyke using the Brennan survey data, at the poling locations, are also presented on the figure. The DTM is the triangulated surface of the top of sediment elevations generated by Foth & Van Dyke using Microstation with SelectCAD software and the Brennan bathymetric survey data

As presented on Table 1, the average difference between the poling measurements and the adjacent Brennan survey point is 0.39 ft (poling yielding a higher elevation). The average difference between the poling elevation and the modeled elevation at the same point is also 0.39 ft (poling yielding a higher elevation). This difference could be attributed to an assumed water elevation datum, and/or inherent survey accuracy. Following this event it was decided to physically determine water elevation with GPS during each survey event, rather than rely on the datum at the Fritz Park gauge when determining top of sediment elevations from poling data.

The volumes of sediment removed in Region IV and the overcut/undercut volumes are presented on Figure 1B. Overcut is defined as sediment removed below the modeled 1.49 ppm PCB target elevation, and undercut is sediment remaining in place above the target elevation after dredging. In summary the results are:

Targeted volume for removal	1,630 cy (within Region IV)
Region IV volume removed	3,660 cy
Total volume removed	4,280 cy (within entire survey limits)
Overcut volume/ave. overcut[a]	2,030 cy/0.60 ft(7.2”) (within Region IV)
Undercut volume/ave. undercut[b]	1 cy/.06 ft (0.7”) (within Region IV)
% Region IV achieving target elevation	99.5%

[a] Overcut volume below 1.49 RAL surface divided by the area of overcut

[b] Undercut volume above the 1.49 RAL surface divided by the area of undercut

Sub-Area A Region VIII(R)

A pre-dredge survey of the Region VIII(R) area was completed by Brennan on September10, 2004.

Following dredging a post-dredge bathymetric survey was conducted by Brennan on October 18, 2004. Again, as a QA measure, Foth & Van Dyke was on board the bathymetric survey vessel during the post-dredge survey.

Foth & Van Dyke observed the survey procedures and conducted poling at nine locations in Region VIII(R). The poling depth results were then converted to elevations and used as a check against the elevations reported by Brennan. Results of the poling elevations, compared to nearest Brennan survey points (SP), are shown on attached Figure 2A. The top of sediment elevations (MP) of the DTM model generated by Foth & Van Dyke using the Brennan survey data, at the poling locations, are also presented on the figure.

As presented on Table 1, the average difference between the poling measurements and the adjacent Brennan survey point is 0.17 ft (poling yielding a higher elevation). The average difference between the poling elevation and the modeled elevation at the same point is 0.12 ft (poling yielding a higher elevation). These differences were reduced from the Region IV results, in part due to the use of a locally measured surface water elevation from which poling readings were subtracted. Top of sediment surface irregularities likely contribute to remaining differences.

The volumes of sediment removed in Region VIII(R) and the overcut/undercut volumes are presented on Figure 2B. In summary the results are:

Targeted volume for removal	2,330 cy (within Region VIII(R))
Region VIII (R) volume removed	3,440 cy
Total volume removed	3,700 cy (within entire survey limits)
Overcut volume/ave. overcut[a]	1,130 cy/0.58 ft (7”) (within Region VIII(R))
Undercut volume/ave. undercut[b]	24 cy/0.14ft (1.7”) (within Region VIII(R))
%Region VIII (R) achieving target elevation	91.8%

As shown on Figure 2B, 91.8% of Region VIII (R) was dredged to targeted elevations as of October 18, 2004. As a result, additional dredging occurred in late November/early December to address the areas above target elevation. A follow-up post-dredge survey was conducted by Brennan on December 6, 2004.

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[a] Overcut volume below 1.49 RAL surface divided by the area of overcut

[b] Undercut volume above the 1.49 RAL surface divided by the area of undercut

As a QA measure, Foth & Van Dyke was on board the bathymetric survey vessel during the post-dredge survey. Foth & Van Dyke observed the survey procedures and conducted poling at six locations in Region VIII(R). The poling depths were compared to adjacent bathymetric sounding readings observed by Brennan at the time of the poling, with the boat held stationary. The average variation between poling and sonar soundings was approximately 0.11ft, with poling indicating a higher elevation. Table 1 summarizes the comparisons between poling and bathymetric survey results.

The poling depth results were then converted to elevation and used as a check against the elevations reported by Brennan. Results of the poling elevations, compared to nearest the Brennan survey points (SP), are shown on attached Figure 2C. The top of sediment elevations (MP) of the DTM model generated by Foth & Van Dyke using the Brennan survey data, at the poling locations, are also presented on the figure.

The volumes of sediment removed in Region VIII(R) from the additional dredging event and the overcut/undercut volumes are presented on Figure 2D. In summary the results are:
As presented on Table 1, the average difference between the poling measurements and the adjacent Brennan survey point is 0.18 ft (poling yielding a higher elevation). The average difference between the poling elevation and the modeled elevation at the same point is 0.28 ft (poling yielding a higher elevation).

Targeted volume for removal	24 cy (within Region VIII (R))
Region VIII (R) volume removed	200 cy
Total volume removed	220 cy (within entire survey limits)
Overcut volume/ave. overcut[a]	140 cy/0.14 ft(1.7") (within Region VIII (R))
Undercut volume/ave. undercut[b]	60 cy/0.17 ft(2") (within Region VIII (R))

Reviewing these bathymetric survey data, it appears likely sediment may have deposited into low areas formed during the October dredging in Region VIII(R), which would explain the larger undercut volume determined for the December survey compared to the October survey (60 cy vs. 24 cy). The inherent accuracy within the survey methods may also contribute to this difference in undercut volume.

To further address this issue, Figure 2E has been prepared showing a comparison between the October 18 and December 6 bathymetric surveys in Region VIII (R). Presented on the figure are the sediment thickness differences (isopachs) between the two surveys. Of particular interest is that the "fill" of 350 cy between the two surveys is greater than the cut of 200 cy. The majority of the fill however (70 %) has a thickness of less than 0.4 ft, which again is likely due to sediment deposition and the inherent accuracy of the survey.

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[a] Overcut volume below 1.49 RAL surface divided by the area of overcut

[b] Undercut volume above the 1.49 RAL surface divided by the area of undercut

Sub-Area POG2

A pre-dredge survey of the POG2 area was completed by Brennan. CH2MHILL reviewed the survey results and found them to be consistent with the September 2004 corrected Onyx survey from Spring 2004, and therefore elected to use the Onyx data as the existing conditions survey in POG2.

Following dredging, a post-dredge bathymetric survey was conducted by Brennan on November 16, 2004. As a QA measure Foth & Van Dyke was on board the bathymetric survey vessel during the post-dredge survey.

Foth & Van Dyke observed the survey procedures and conducted poling at nine locations. The poling depths were compared to adjacent bathymetric sounding readings observed by Brennan at the time of the poling, with the boat held stationary. The average variation between poling and sonar soundings was approximately 0.06 ft, with poling indicating a higher elevation. Table 1 summarizes the comparisons between poling and bathymetric survey results.

The poling depth results were then converted to elevations and used as a check against the elevations reported by Brennan. Results of the poling elevations, compared to the nearest Brennan survey points (SP), are shown on attached Figure 3A. The top of sediment elevations (MP) of the DTM model generated by Foth & Van Dyke using the Brennan survey data, at the poling locations, are also presented on the figure.

As presented on Table 1, the average difference between the poling measurements and the adjacent Brennan survey point is 0.04 ft (poling yielding a higher elevation). The average difference between the poling elevation and the modeled elevation at the same point is 0.14 ft (poling yielding a higher elevation).

The volumes of sediment removed in Sub-Area POG2 and the overcut/undercut volumes are presented on Figure 3B. Since POG2 dredging was not completed in 2004, this data should be viewed as preliminary until POG2 is dredged to target elevations. In summary the results are:

Targeted volume for removal	Up to 25,000 cy (within POG2 2004 RA area)
Total volume removed	7,370 cy
Overcut volume/ave. overcut[a]	3 cy/ NA
Undercut volume/ave. undercut[b]	15,850 cy/3.38 ft
% POG2 achieving target elevation	< 1%

[a] Overcut volume below 1.49 RAL surface divided by the area of overcut

[b] Undercut volume above the 1.49 RAL surface divided by the area of undercut

Sand Placement Test Area (POG4)

For 2004 an approximate one acre area within POG4 was identified as a sand placement test area.

A pre-sand deployment survey was conducted by Brennan on November 9, 2004 with QA provided by Foth & Van Dyke. Sand was then slurried to a spreader barge and deployed by Brennan over the November 10–24, 2004 time period. Following sand placement, a post-sand deployment survey was conducted by Brennan on December 6, 2004, again with QA provided by Foth & Van Dyke.

Foth & Van Dyke observed the November 9 pre-sand deployment survey procedures and conducted poling at nine locations. The poling depths were compared to adjacent bathymetric sounding readings observed by Brennan at the time of the poling, with the boat held stationary. The average variation between poling and sonar soundings was approximately 0.02 ft, with poling indicating a lower elevation. Table 1 summarizes the comparisons between poling and bathymetric survey results.

Following sand placement, Foth & Van Dyke observed the December 6 post-sand deployment survey procedures and conducted poling at four locations. The poling depths were compared to adjacent bathymetric sounding readings observed by Brennan at the time of the poling, with the boat held stationary. The average variation between poling and sonar soundings was approximately 0.04 ft, with poling indicating a higher sand surface elevation.

These same poling readings were then converted to elevations and used as a check against the elevations recorded by Brennan during the bathymetric survey. Results of the poling elevations, compared to the nearest Brennan survey points (SP), are shown on attached Figure 4A. The top of sediment elevations (MP) of the DTM model generated by Foth & Van Dyke using the Brennan survey data, at the poling locations, are also presented on the figure. Figure 4A also depicts top of sand elevations produced from the December 6, 2004 Brennan survey data.

As presented on the Table 1, the average difference between the poling measurements and the adjacent Brennan survey point (SP) is 0.18 ft (poling yielding a higher sand surface elevation). The average difference between the poling elevation and the modeled elevation (MP) at the same point is 0.26 ft (poling yielding a higher sand surface elevation).

Sand thickness measurements were taken by Foth & Van Dyke on November 30, 2004 at 22 locations by pushing cores through the sand layer, extracting the clear core tubes and measuring the sand thickness.

Sand thickness measurements are presented on Figure 4B. Also presented on Figure 4B are the sand thickness contours (isopachs) as determined from the pre- and post- sand deployment surveys.

The calculated sand volume placed, based on the two surveys, is approximately 305 cubic yards within the approximate 0.52 acre 2004 area of sand placement. This would equate to an

average sand thickness of 4.4 inches. It is important to note that the bathymetric survey data incorporates both consolidation and mixing of the sand with the underlying soft sediment.

The average measured sand thickness from the 22 cores was 5.3 inches, with a range of sand thicknesses from 3 to 11 inches. As indicated, the core measured sand thickness average is approximately one inch thicker than the bathymetric survey data. The thickness difference between cores and bathymetry was observed early in the placement process when it was observed that bathymetry measurements would lead to a thicker sand placement than planned. The contractor adjusted, with team concurrence, to rely upon cores as the QC measurement method. Using the average core measured sand thickness and the approximate sand placement limits of 0.52 acre, results in an estimated in-place sand volume of 370 cubic yards.

In summary the sand placement results are:

Approximate area of sand placement	0.52 acre
Average measured sand thickness	5.3 inches (average of 22 cores)
Range of measured sand thickness	3-11 inches
Calculated in-place sand volume	370 cy (area x average thickness)

Summary

Based on our observation of the bathymetric survey methods employed during 2004 and the analysis of the results herein, we offer the following conclusions:

- Under stationary conditions, poling results and depth soundings are consistent, generally within 0.02 to 0.04 ft vertically. A slightly higher variance in the readings was noticed under post-dredge or post-sand deployment conditions (0.04 to 0.11ft), likely due to irregularities in the top of sediment surface caused by these operations.

  The bathymetric survey methods used in 2004 including the survey equipment employed and the survey grid spacing appear adequate for future bathymetric work in OU1.

- Elevations recorded with bathymetric survey equipment under dynamic conditions; do not correlate as well to the poling results when compared to readings collected under stationary conditions. The range of average differences between these values is on the order of 0.04 to 0.4 ft. This range pertains to both the difference between poling points and the nearest bathymetric survey point (SP), as well as the poling points and the modeled elevation at the poling point (MP).

- Some of the greatest differences between poling and bathymetric survey elevations occur in areas of greatest sediment bed relief (surface irregularities). Ridges and furrows resulting from dredging activities impact the overall accuracy of pre- and post-dredge comparisons. Following the same boat path for the pre- and post- surveys will properly account for these surface irregularities. The speed of boat travel during

conduct of the bathymetric surveys, which has an impact on boat draft, may also impact differences in static versus dynamic soundings.

- Suggested improvements in bathymetric survey techniques for 2005could include, consistency in boat speed for all surveys and adherence to pre-determined boat path for both pre- and post dredge surveys.

- Sediment cores following sand placement showed a thicker sand cover as compared to the bathymetric survey data. Measured sediment cores are independent of the consolidation process and also visually show any mixing with the sediment surface. Measured sand thickness should be considered in the future as the preferred method to document sand thickness.

- The Lower Fox River is a dynamic system, with sediment redeposition occurring within a relatively short time frame which was likely the case in Region VIII (R) between October and December 2004. For future dredge work documentation it is recommended to perform existing conditions (pre-dredge) and post-dredge surveys as close to the dredge dates as possible to avoid volume computation inconsistencies resulting from redeposition.

As requested by WDNR, these QA bathymetric results are being provided in advance of the 2004 RA Documentation Report. The findings herein will also be presented in the Documentation Report

Sincerely,

Foth & Van Dyke and Associates, Inc.

Denis M. Roznowski, P.E.
Senior Project Manager

Steven J. Laszewski, Ph.D.
Associate

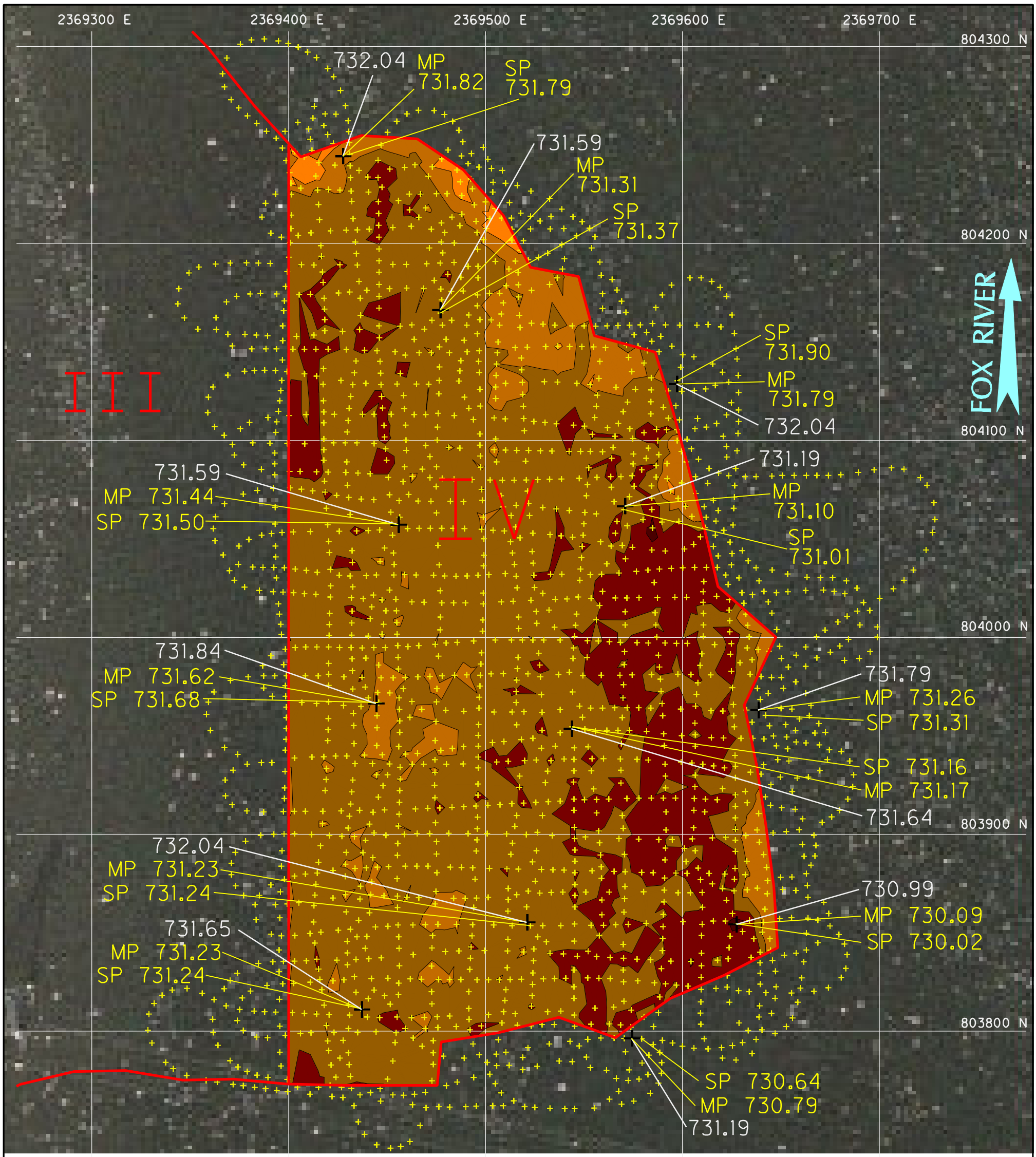
cc: Bill Hartman, GW Partners
Mike Jury, CH2MHill
Sherman LaViolette, CH2MHill
Jim Hahnenberg, USEPA

Table 1
OU1 2004 RA
Summary of Poling and Bathymetric Comparison

Survey Location	Date	# Stations Poled	Average Difference with Stationary Sonar Soundings[1] (ft)	Average Difference with SP[2] (ft)	Average Difference with MP[3] (ft)
Sub-Area A					
- Region IV Pre-Dredge	09-03-04	6	-0.02	NA	NA
- Region IV Post-Dredge	10-05-04	12	-0.04	-0.39	-0.39
- Region VIII (R) Pre-Dredge	09-10-04	NA	NA	NA	NA
- Region VIII (R) Post-Dredge	10-18-04	9	NA	-0.17	-0.12
- Region VIII (R) Post-Dredge	12-06-04	6	-0.11	-0.18	-0.28
POG 2					
- Pre-Dredge	NA	NA	NA	NA	NA
- Post-Dredge	11-16-04	9	-0.06	-0.04	-0.14
Sand Placement Test Area					
-Pre-Deployment	11-09-04	9	+0.02	NA	NA
-Post-Deployment	12-06-04	4	-0.04	-0.18	-0.26

Note: All average differences calculated by summing the differences and dividing by the number of poling locations.
+ indicates poling values deeper
- indicates poling values shallower

1. Average difference between poling by Foth & Van Dyke and sonar soundings recorded by Brennan at the time of poling, with boat held stationary.
2. Average difference between Foth & Van Dyke poling elevation (calculated from surface water elevation minus poling depth) and the nearest bathymetric survey point (SP) provided by Brennan.
3. Average difference between Foth & Van Dyke poling elevation (calculated from surface water elevation minus poling depth) and the model point (MP) at the same location.



LEGEND

TOP OF SEDIMENT ELEVATION

- 730.0′ - 730.5′ ELEVATION
- 730.5′ - 731.0′ ELEVATION
- 731.0′ - 731.5′ ELEVATION
- 731.5′ - 732.0′ ELEVATION
- 732.0′ - 732.5′ ELEVATION

\+ BRENNAN 10/05/04 SURVEY POINT

\+ FOTH & VAN DYKE 10/05/04 POLING LOCATION WITH ELEVATION

SP SURVEY POINT WITH ELEVATION

MP MODEL POINT WITH ELEVATION (SEE NOTE 3)

IV 2004 REMOVAL REGION (92,000 SQ. FT./2.11 ACRES)

DRAFT

AVERAGE ELEVATION DIFFERENCE BETWEEN F&VD POLING LOCATIONS AND ADJACENT BRENNAN SURVEY POINTS
0.39 FT. (POLING HIGHER)

AVERAGE ELEVATION DIFFERENCE BETWEEN F&VD POLING LOCATIONS AND MODEL ELEVATION AT SAME POINT
0.39 FT. (POLING HIGHER)

NOTES:

1. TOP OF SEDIMENT CONTOURS REPRESENT BRENNAN'S OCTOBER 5, 2004 POST DREDGE SURVEY.
2. POLING ELEVATION DETERMINED BY SUBTRACTING POLED DEPTH FROM SURFACE WATER ELEVATION.
3. MODEL POINT REPRESENTS THE 3-DIMENSION MODEL CREATED BY FOTH & VAN DYKE FROM BRENNAN'S SURVEY POINTS.
4. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
5. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.

N

0 25′ 50′ 75′ 100′
BAR SCALE

Foth & Van Dyke

GW PARTNERS

FIGURE 1A

LOWER FOX RIVER
SUB-AREA A - REGION IV
OCT. 5, 2004 POST-DREDGE SURVEY ELEVATIONS

Prepared By: Foth & Van Dyke	Date: JANUARY, 2005	
Drawn By: JRB2	Checked By: DMR	Scope: 04G007

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1/18/2005 jrb2

2369300 E
2369400 E
2369500 E
2369600 E
2369700 E

804200 N
804100 N
804000 N
803900 N
803800 N

LIMITS OF BRENNAN'S
OCTOBER 5, 2004
SURVEY

FOX RIVER

III

IV

LEGEND

SEDIMENT REMOVAL

UNDERCUT 460 sq. ft.
- 0.0 - 0.17' REMAINING ABOVE RAL (.5% OF AREA)

OVERCUT 91,540 sq. ft.
- 0.0 - 0.5' CUT BELOW RAL (36% OF AREA)
- 0.5 - 1.0' CUT BELOW RAL (55.5% OF AREA)
- 1.0 - 1.5' CUT BELOW RAL (7% OF AREA)
- 1.5 - 1.9' CUT BELOW RAL (1% OF AREA)

IV 2004 REMOVAL REGION (92,000 SQ. FT./2.11 ACRES)

LIMITS OF BRENNAN'S OCTOBER 5, 2004 SURVEY (133,500 SQ. FT./3.06 ACRES)

DRAFT

TOTAL SEDIMENT REMOVAL

INSIDE REGION IV LIMITS
3,660 C.Y.
INSIDE OCT. 5, 2004 SURVEY LIMITS
4,280 C.Y.

SEDIMENT REMAINING

INSIDE REGION IV LIMITS
ABOVE 1.49 PPM RAL
1 C.Y.

AVERAGE UNDERCUT

1 c.y. x 27 ft^3/cy / 460 ft^2
0.06 FT.

SEDIMENT OVERCUT

INSIDE REGION IV LIMITS
BELOW 1.49 PPM RAL
2,030 C.Y.

AVERAGE OVERCUT

2,030 c.y. x 27 ft^3/cy / 91,540 ft^2
0.60 FT.

N

0 25' 50' 75' 100'
BAR SCALE

Foth & Van Dyke

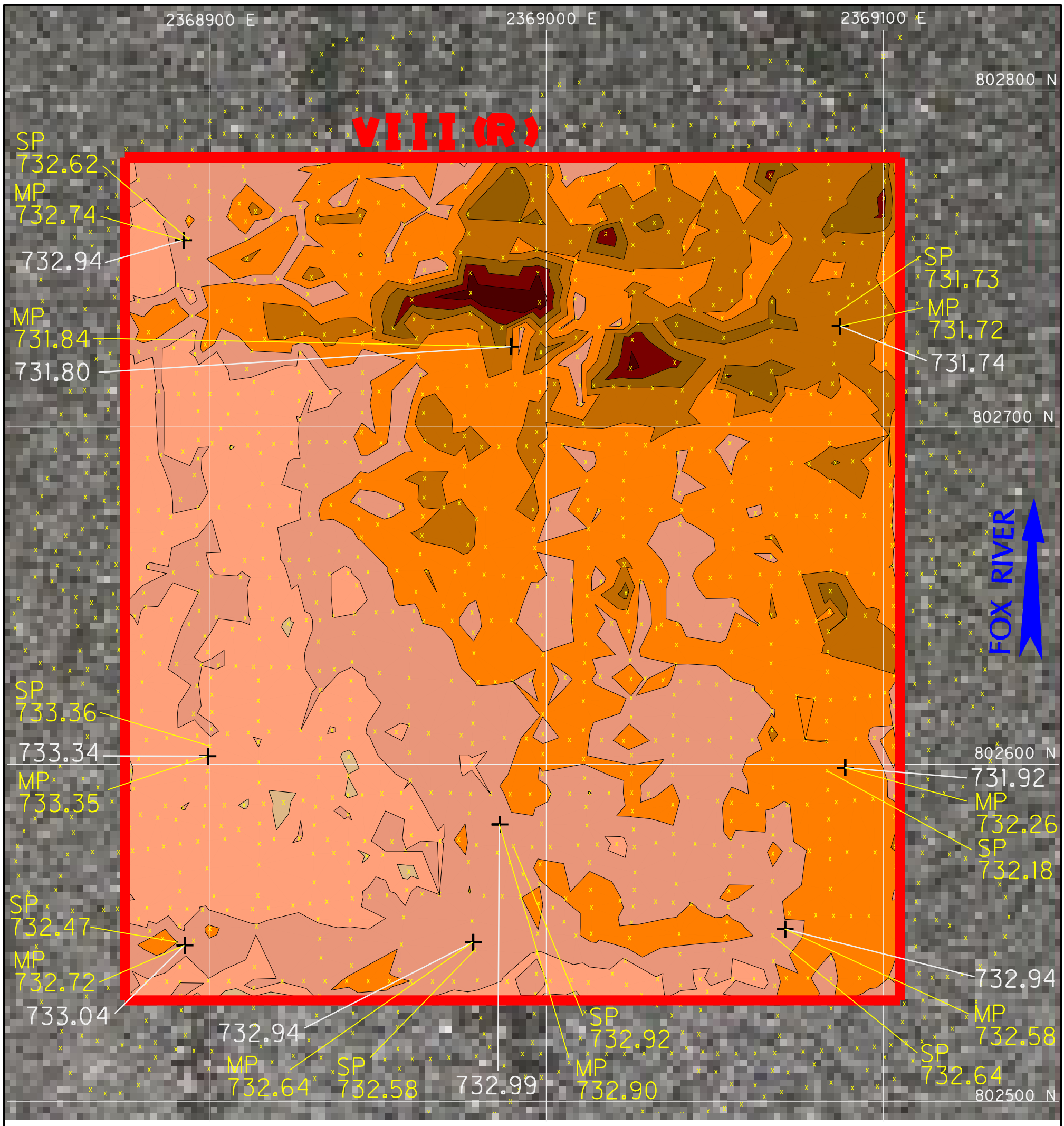
NOTES:
1. TOTAL SEDIMENT REMOVED DETERMINED USING BRENNAN SEPT. 3, 2004 PRE-DREGE AND OCT. 5, 2004 POST-DREDGE SURVEYS.
2. SEDIMENT ISOPACH CREATED BY USING GMS DERIVED 1.49 PPM DREDGE CONTOURS VS BRENNAN'S OCTOBER 5, 2004 SURVEY.
3. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
4. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.

GW PARTNERS

FIGURE 1B

LOWER FOX RIVER
SUB-AREA A - REGION IV
OCT. 5, 2004 POST-DREDGE ISOPACH

Prepared By: Foth & Van Dyke	Date: JANUARY, 2005	
Drawn By: JRB2	Checked By: DMR	Scope: 04G007



LEGEND

TOP OF SEDIMENT ELEVATION

- 730.0′ - 730.5′ ELEVATION
- 730.5′ - 731.0′ ELEVATION
- 731.0′ - 731.5′ ELEVATION
- 731.5′ - 732.0′ ELEVATION
- 732.0′ - 732.5′ ELEVATION
- 732.5′ - 733.0′ ELEVATION
- 733.0′ - 733.5′ ELEVATION
- 733.5′ - 734.0′ ELEVATION

x — BRENNAN OCTOBER 18TH SURVEY POINT

\+ — FOTH & VAN DYKE 10/18/04 POLING LOCATION WITH ELEVATION

SP — SURVEY POINT WITH ELEVATION

MP — MODEL POINT WITH ELEVATION (SEE NOTE 3)

VIII (R) — 2004 REMOVAL REGION (57,500 SQ. FT./1.32 ACRES)

DRAFT

AVERAGE ELEVATION DIFFERENCE BETWEEN F&VD POLING LOCATIONS AND ADJACENT BRENNAN SURVEY POINTS
0.17 FT. (POLING HIGHER)

AVERAGE ELEVATION DIFFERENCE BETWEEN F&VD POLING LOCATIONS AND MODEL ELEVATION AT SAME POINT
0.12 FT. (POLING HIGHER)

NOTES:

1. TOP OF SEDIMENT CONTOURS REPRESENT BRENNAN'S OCTOBER 18, 2004 POST DREDGE SURVEY.
2. POLING ELEVATION DETERMINED BY SUBTRACTING POLED DEPTH FROM SURFACE WATER ELEVATION.
3. MODEL POINT REPRESENTS THE 3-DIMENSION MODEL CREATED BY FOTH & VAN DYKE FROM BRENNAN'S SURVEY POINTS.
4. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
5. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.

N

0 15′ 30′ 45′ 60′
BAR SCALE

Foth & Van Dyke

GW PARTNERS

FIGURE 2A

LOWER FOX RIVER
SUB-AREA A - REGION VIII (R)
OCT. 18, 2004 POST-DREDGE SURVEY ELEVATIONS

Prepared By: Foth & Van Dyke	Date: JANUARY, 2005
Drawn By: JRB2	Checked By: DMR	Scope: 04G007

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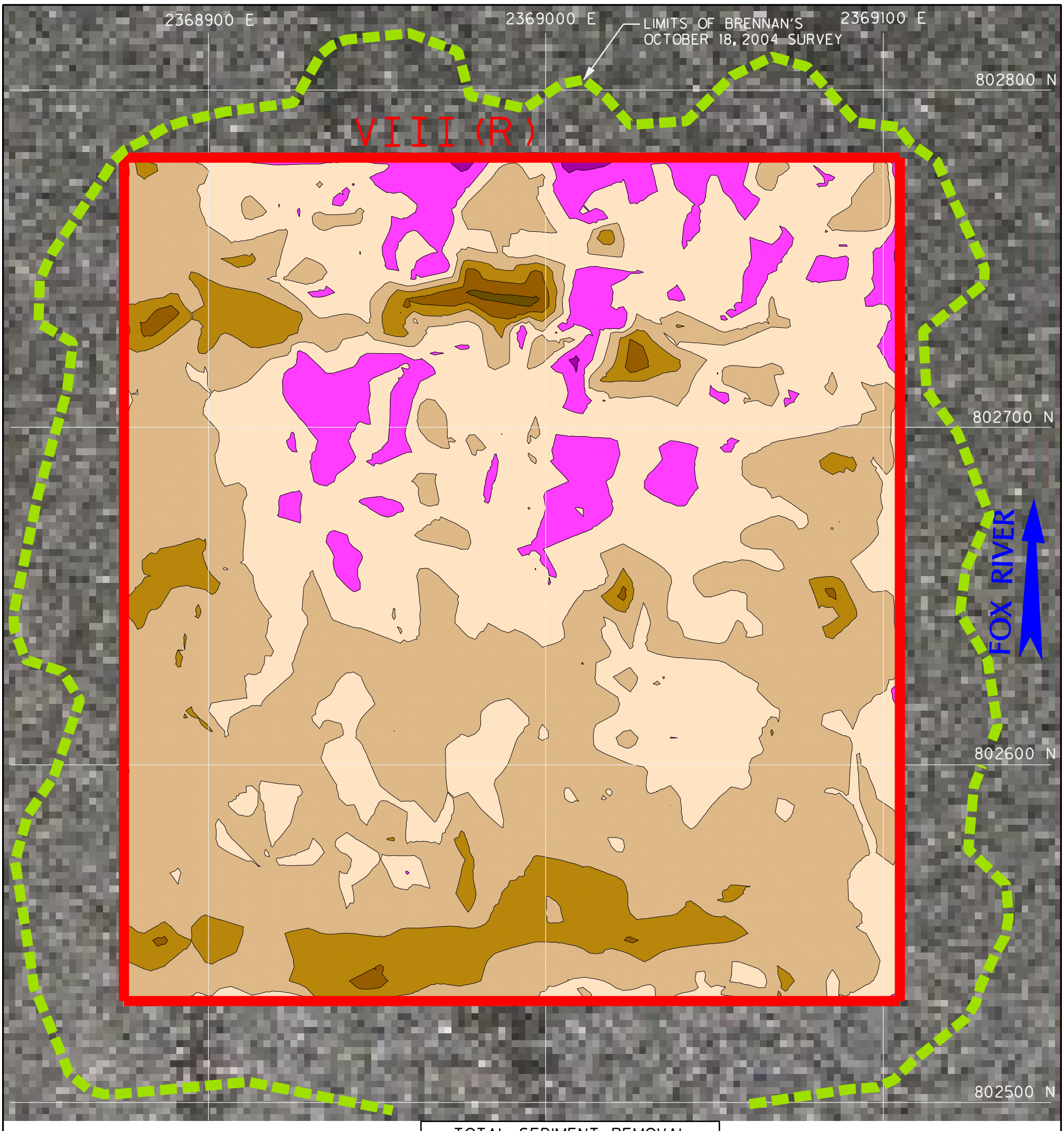
1/18/2005 jrb2



LEGEND

SEDIMENT REMOVAL

UNDERCUT 4,715 sq. ft.

- 0.5 - 0.9′ REMAINING ABOVE RAL (0.2% OF AREA)
- 0.0 - 0.5′ REMAINING ABOVE RAL (8% OF AREA)

OVERCUT 52,785 sq. ft.

- 0.0 - 0.5′ CUT BELOW RAL (37% OF AREA)
- 0.5 - 1.0′ CUT BELOW RAL (46% OF AREA)
- 1.0 - 1.5′ CUT BELOW RAL (8% OF AREA)
- 1.5 - 2.0′ CUT BELOW RAL (0.7% OF AREA)
- 2.0 - 2.2′ CUT BELOW RAL (0.1% OF AREA)

VIII (R) — 2004 REMOVAL REGION (57,500 SQ. FT./1.32 ACRES)

LIMITS OF BRENNAN'S OCTOBER 18, 2004 SURVEY (80,900 SQ. FT./1.86 ACRES)

DRAFT

TOTAL SEDIMENT REMOVAL

INSIDE REGION VIII (R) LIMITS
3,440 C.Y.

INSIDE OCT. 18, 2004 SURVEY LIMITS
3,700 C.Y.

SEDIMENT REMAINING

INSIDE REGION VIII (R) LIMITS & ABOVE 1.49 PPM RAL
24 C.Y.

AVERAGE UNDERCUT

24 c.y. x 27 ft^3/cy / 4,715 ft^2
0.14 FT.

SEDIMENT OVERCUT

INSIDE REGION VIII (R) LIMITS & BELOW 1.49 PPM RAL
1,130 C.Y.

AVERAGE OVERCUT

1,130 c.y. x 27 ft^3/cy / 52,785 ft^2
0.58 FT.

N

0 15′ 30′ 45′ 60′
BAR SCALE

Foth & Van Dyke

NOTES:

1. TOTAL SEDIMENT REMOVED DETERMINED USING BRENNAN SEP. 10, 2004 PRE-DREGE AND OCT. 18, 2004 POST-DREDGE SURVEYS.
2. SEDIMENT ISOPACH CREATED BY USING GMS DERIVED 1.49 PPM DREDGE CONTOURS VS BRENNAN'S OCTOBER 18, 2004 SURVEY.
3. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
4. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.

GW PARTNERS

FIGURE 2B

LOWER FOX RIVER
SUB-AREA A - REGION VIII (R)
OCT. 18, 2004 POST-DREDGE ISOPACH

Prepared By: Foth & Van Dyke	Date: JANUARY, 2005
Drawn By: JRB2	Checked By: DMR	Scope: 04G007

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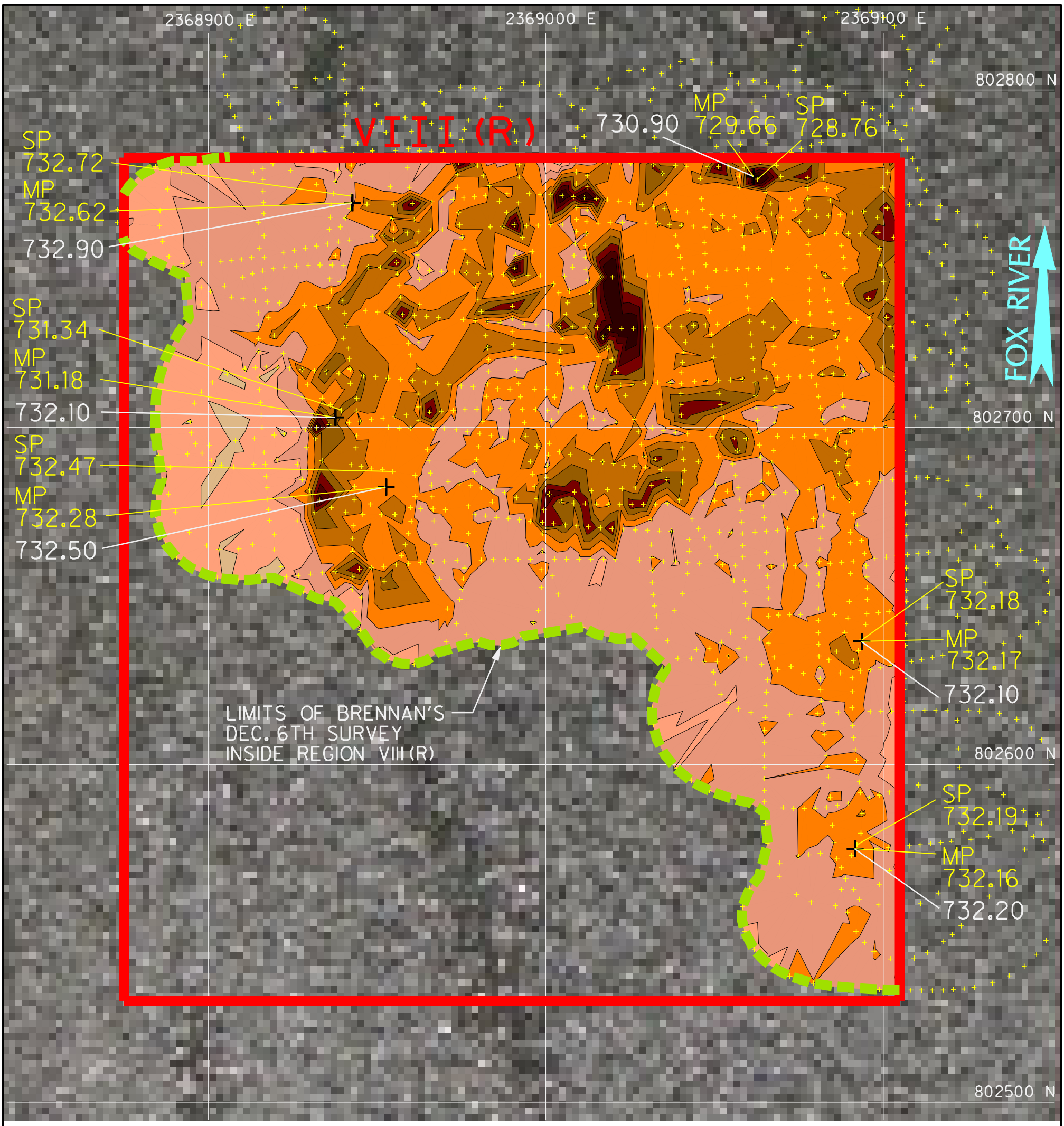
1/18/2005 jrb2



LEGEND

TOP OF SEDIMENT ELEVATION

- 729.5′ - 730.0′ ELEVATION
- 730.0′ - 730.5′ ELEVATION
- 730.5′ - 731.0′ ELEVATION
- 731.0′ - 731.5′ ELEVATION
- 731.5′ - 732.0′ ELEVATION
- 732.0′ - 732.5′ ELEVATION
- 732.5′ - 733.0′ ELEVATION
- 733.0′ - 733.5′ ELEVATION
- 733.5′ - 734.0′ ELEVATION

x — BRENNAN DECEMBER 6TH SURVEY POINT

\+ — FOTH & VAN DYKE 12/06/04 POLING LOCATION WITH ELEVATION

SP — SURVEY POINT WITH ELEVATION

MP — MODEL POINT WITH ELEVATION (SEE NOTE 4)

VIII (R) — 2004 REMOVAL REGION (57,500 SQ. FT. / 1.32 ACRES)

LIMITS OF BRENNAN 12-06-04 SURVEY INSIDE REGION VIII(R) (36,140 SQ. FT. / 0.83 ACRES)

* EXCLUDES POINT WITH POLING ELEVATION 730.90 FT DUE TO SHARP CHANGE IN RELIEF.

AVERAGE ELEVATION DIFFERENCE BETWEEN F&VD POLING LOCATIONS AND ADJACENT BRENNAN SURVEY POINTS
* 0.18 FT. (POLING HIGHER)

AVERAGE ELEVATION DIFFERENCE BETWEEN F&VD POLING LOCATIONS AND MODEL ELEVATION AT SAME POINT
* 0.28 FT. (POLING HIGHER)

NOTES:

1. TOP OF SEDIMENT CONTOURS REPRESENT BRENNAN'S DECEMBER 6, 2004 POST DREDGE SURVEY. SURVEY PERFORMED FOLLOWING REDREDGING OF AREAS ABOVE 1.49 PPM RAL.
2. POLING ELEVATION DETERMINED BY SUBTRACTING POLED DEPTH FROM SURFACE WATER ELEVATION.
3. MODEL POINT REPRESENTS THE 3-DIMENSION MODEL CREATED BY FOTH & VAN DYKE FROM BRENNAN'S SURVEY POINTS.
4. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
5. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.

N

DRAFT

0 15′ 30′ 45′ 60′
BAR SCALE

Foth & Van Dyke

GW PARTNERS

FIGURE 2C

LOWER FOX RIVER
SUB-AREA A - REGION VIII(R)
DEC. 6, 2004 POST-DREDGE SURVEY ELEVATIONS

Prepared By: Foth & Van Dyke	Date: JANUARY, 2005	
Drawn By: JRB2	Checked By: DMR	Scope: 04G007

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1/18/2005 jrb2

2368900 E
2369000 E
2369100 E
802800 N
802700 N
802600 N
802500 N

VIII(R)

FOX RIVER

LIMITS OF BRENNAN'S
DEC. 6TH SURVEY

LEGEND

SEDIMENT REMOVAL

UNDERCUT 9,600 sq. ft.

- 1.0 - 1.5′ REMAINING ABOVE RAL (0.1% OF AREA)
- 0.5 - 1.0′ REMAINING ABOVE RAL (0.7% OF AREA)
- 0.0 - 0.5′ REMAINING ABOVE RAL (25.4% OF AREA)

OVERCUT 27,050 sq. ft.

- 0.0 - 0.5′ CUT BELOW RAL (49.6% OF AREA)
- 0.5 - 1.0′ CUT BELOW RAL (19.1% OF AREA)
- 1.0 - 1.5′ CUT BELOW RAL (3.5% OF AREA)
- 1.5 - 2.0′ CUT BELOW RAL (1.0% OF AREA)
- 2.0 - 2.5′ CUT BELOW RAL (0.4% OF AREA)
- 2.5 - 3.0′ CUT BELOW RAL (0.2% OF AREA)

VIII (R) — 2004 REMOVAL REGION (57,500 SQ. FT. / 1.32 ACRES)

LIMITS OF BRENNAN 12/06/2004 SURVEY (49,400 SQ.FT. / 1.13 ACRES)

DRAFT

TOTAL SEDIMENT REMOVAL

INSIDE REGION VIII (R) LIMITS
200 C.Y.
INSIDE DEC. 6, 2004 SURVEY LIMITS
220 C.Y.

SEDIMENT REMAINING

INSIDE REGION VIII (R) LIMITS & ABOVE 1.49 PPM RAL
60 C.Y.

AVERAGE UNDERCUT

60 c.y. x 27 ft^3/cy / 9,600 ft^2
0.17 FT.

SEDIMENT OVERCUT

INSIDE REGION VIII (R) LIMITS & BELOW 1.49 PPM RAL
140 C.Y.

AVERAGE OVERCUT

140 c.y. x 27 ft^3/cy / 27,050 ft^2
0.14 FT.

N

0 15′ 30′ 45′ 60′
BAR SCALE

Foth & Van Dyke

NOTES:

1. TOTAL SEDIMENT REMOVAL VOLUMES OBTAINED USING BRENNAN'S OCTOBER 18 AND DECEMBER 6, 2004 SURVEYS.
2. SEDIMENT ISOPACH CREATED BY USING GMS DERIVED 1.49 PPM DREDGE CONTOURS VS BRENNAN'S DECEMBER 6, 2004 SURVEY.
3. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
4. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.

GW PARTNERS

FIGURE 2D

LOWER FOX RIVER
SUB-AREA A - REGION VIII (R)
DEC. 6, 2004 POST-DREDGE ISOPACH

Prepared By: Foth & Van Dyke	Date: JANUARY, 2005
Drawn By: JRB2	Checked By: DMR	Scope: 04G007

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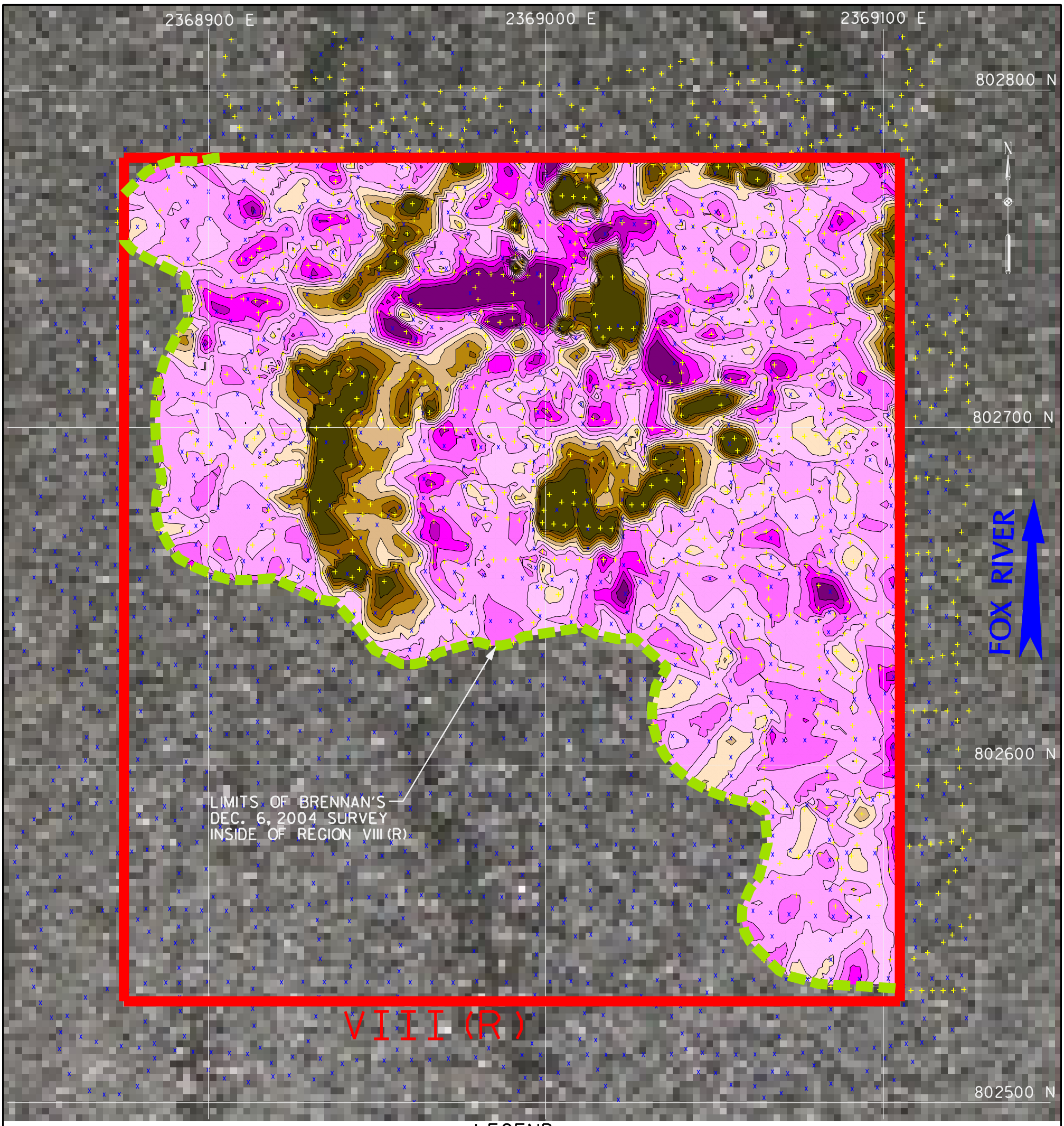
1/18/2005 jrb2



LEGEND

OCTOBER 18TH SURVEY HIGHER THAN DECEMBER 6TH SURVEY (CUT)

9,250 sq. ft.

- 1.0′ - 3.0′ (16.9% OF AREA)④
- 0.8′ - 1.0′ (8.4% OF AREA)
- 0.6′ - 0.8′ (11.6% OF AREA)
- 0.4′ - 0.6′ (16.5% OF AREA)
- 0.2′ - 0.4′ (18.5 % OF AREA)
- 0.0′ - 0.2′ (28.1% OF AREA)

DECEMBER 6TH SURVEY HIGHER THAN OCTOBER 18TH SURVEY (''FILL'')

27,260 sq. ft.

- 1.0′ - 2.0′ (2.3% OF AREA)④
- 0.8′ - 1.0′ (2.0% OF AREA)
- 0.6′ - 0.8′ (5.9% OF AREA)
- 0.4′ - 0.6′ (19.6% OF AREA)
- 0.2′ - 0.4′ (41.8% OF AREA)
- 0.0′ - 0.2′ (28.4% OF AREA)

\+ BRENNAN DECEMBER 6TH SURVEY POINT

x BRENNAN OCTOBER 18TH SURVEY POINT

VIII (R) 2004 REMOVAL REGION (57,500 SQ. FT. / 1.32 ACRES)

LIMITS OF BRENNAN 12-06-04 SURVEY INSIDE REGION VIII (R) (36,140 SQ. FT. / 0.83 ACRES)

DRAFT

VOLUME DIFFERENCE BETWEEN SURVEYS
(INSIDE REGION VIII (R) LIMITS)

BRENNAN OCTOBER 18TH SURVEY HIGHER THAN DECEMBER 6TH SURVEY = 200 C.Y.

AVERAGE THICKNESS (CUT)

200 c.y. x 27 ft^3/cy / 9,250 ft^2

0.58 FT.

BRENNAN DECEMBER 6TH SURVEY HIGHER THAN OCTOBER 18TH SURVEY = 350 C.Y.

AVERAGE THICKNESS (''FILL'')

350 c.y. x 27 ft^3/cy / 27,260 ft^2

0.35 FT.

NOTES:

1. SEDIMENT ISOPACH CREATED BY USING BRENNAN'S OCTOBER 18, 2004 VS BRENNAN'S DECEMBER 6, 2004 SURVEY.
2. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
3. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
4. AREA PERCENTAGES DETERMINED BASED ON AREAS OF CUT AND FILL INDIVIDUALLY.

0 15′ 30′ 45′ 60′

BAR SCALE

Foth & Van Dyke

GW PARTNERS

FIGURE 2E

LOWER FOX RIVER
SUB-AREA A - REGION VIII (R)
BRENNAN'S POST-DREDGE SURVEY COMPARISONS

Prepared By: Foth & Van Dyke	Date: JANUARY, 2005	
Drawn By: JRB2	Checked By: DMR	Scope: 04G007

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1/18/2005 jrb2

2371900 E 2372000 E 2372100 E 2372200 E 2372300 E 2372400 E

808000 N
807900 N
807800 N
807700 N
807600 N
807500 N
807400 N
807300 N
807200 N
807100 N
807000 N
806900 N
806800 N
806700 N
806600 N

N

POG 2

731.96
MP 732.04
SP 731.98

730.56
MP 729.99
SP 729.87

SP 733.84
MP 732.94
732.86

SP 728.42
728.26
MP 728.57

732.46
MP 732.25
SP 732.20

SP 734.57
MP 734.19
734.51

732.56
MP 732.15
SP 732.15

729.86
MP 729.82
SP 729.76

SP 732.18
MP 732.38
732.26

FOX RIVER

ESTIMATED LOCATION OF WATER INTAKE

AVERAGE ELEVATION DIFFERENCE BETWEEN F&VD POLING LOCATIONS AND ADJACENT BRENNAN SURVEY POINTS
0.04 FT. (POLING HIGHER)

AVERAGE ELEVATION DIFFERENCE BETWEEN F&VD POLING LOCATIONS AND MODEL ELEVATION AT SAME POINT
0.14 FT. (POLING HIGHER)

LEGEND

TOP OF SEDIMENT ELEVATION

- 728.0′ - 729.0′ ELEVATION
- 729.0′ - 730.0′ ELEVATION
- 730.0′ - 731.0′ ELEVATION
- 731.0′ - 732.0′ ELEVATION
- 732.0′ - 733.0′ ELEVATION
- 733.0′ - 734.0′ ELEVATION
- 734.0′ - 734.0′ ELEVATION
- 735.0′ - 736.0′ ELEVATION
- \+ BRENNAN 11/16/04 SURVEY POINT
- \+ FOTH & VAN DYKE 11/16/04 POLING LOCATION WITH ELEVATION
- SP SURVEY POINT WITH ELEVATION
- MP MODEL POINT WITH ELEVATION (SEE NOTE 3)
- POG 2 2004 RA REMOVAL AREA (FROM CH2MHILL) (164,725 sq. ft./3.78 AC.)
- POG 2 DELINEATION (182,650 sq. ft./4.19 AC.)

0 50′ 100′ 150′ 200′
BAR SCALE

Foth & Van Dyke

NOTES:

1. TOP OF SEDIMENT CONTOURS REPRESENT BRENNAN'S NOVEMBER 16, 2004 POST DREDGE SURVEY.
2. POLING ELEVATION DETERMINED BY SUBTRACTING POLED DEPTH FROM SURFACE WATER ELEVATION.
3. MODEL POINT REPRESENTS THE 3-DIMENSION MODEL CREATED BY FOTH & VAN DYKE FROM BRENNAN'S SURVEY POINTS.
4. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
5. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
6. SUB-AREA POG2 DELINEATION FROM CH2MHILL.

DRAFT

GW PARTNERS

FIGURE 3A

LOWER FOX RIVER
SUB-AREA POG2
NOV.16, 2004 POST-DREDGE SURVEY ELEVATIONS

Prepared By: Foth & Van Dyke	Date: JANUARY, 2005	
Drawn By: JRB2	Checked By: DMR	Scope: 04G007

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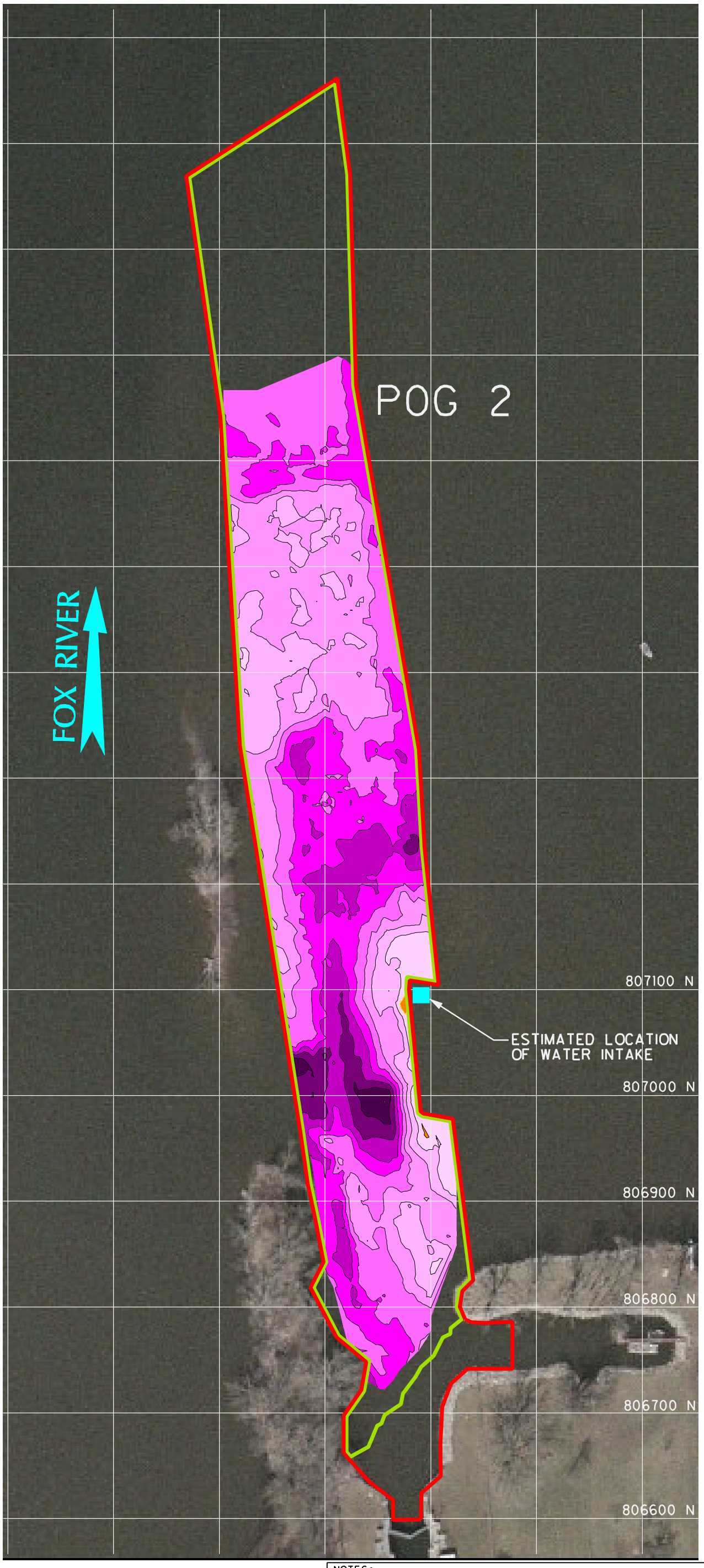
1/18/2005 jrb2



N

SEDIMENT REMOVAL

INSIDE POG 2 LIMITS
(NOT INCLUDING UNSURVEYED AREAS)

7,370 C.Y.

(SEE NOTE 1)

SEDIMENT REMAINING

INSIDE POG 2 LIMITS
& ABOVE 1.49 PPM RAL
(NOT INCLUDING UNSURVEYED AREAS)

15,850 C.Y.

(SEE NOTE 2)

AVERAGE UNDERCUT

15,850 c.y. x 27 ft^3/cy / 126,700 ft^2

3.38 FT.

SEDIMENT OVERCUT

INSIDE POG 2 LIMITS
& BELOW 1.49 PPM RAL
(NOT INCLUDING UNSURVEYED AREAS)

3 C.Y.

(SEE NOTE 2)

AVERAGE OVERCUT

3 c.y. x 27 ft^3/cy / 120 ft^2

0.67 FT.

LEGEND

UNDERCUT 126,700 sq. ft.

- 0 - 1′ REMAINING ABOVE 1 PPM RAL (3.1% OF AREA)
- 1 - 2′ REMAINING ABOVE 1 PPM RAL (11.8% OF AREA)
- 2 - 3′ REMAINING ABOVE 1 PPM RAL (25.3% OF AREA)
- 3 - 4′ REMAINING ABOVE 1 PPM RAL (23.8% OF AREA)
- 4 - 5′ REMAINING ABOVE 1 PPM RAL (22.3% OF AREA)
- 5 - 6′ REMAINING ABOVE 1 PPM RAL (9.6% OF AREA)
- 6 - 7′ REMAINING ABOVE 1 PPM RAL (3.2% OF AREA)
- 7 - 8′ REMAINING ABOVE 1 PPM RAL (0.8% OF AREA)

OVERCUT 120 sq. ft.

- 0 - 1′ CUT BELOW 1 PPM RAL (0.1% OF AREA)

- POG 2 2004 RA REMOVAL AREA (FROM CH2MHILL) (164,725 sq. ft./3.78 AC.)
- POG 2 DELINEATION (182,650 sq. ft./4.19 AC.)

0 50′ 100′ 150′ 200′

BAR SCALE

Foth & Van Dyke

DRAFT

NOTES:

1. TOTAL SEDIMENT REMOVED DETERMINED USING ONXY APRIL 2004 EXISTING CONDITIONS SURVEY AND BRENNAN'S 11-16-04 POST-DREDGE SURVEY.
2. SEDIMENT ISOPACH AND SEDIMENT VOLUME REMAINING DETERMINED USING CH2MHILL X,Y,Z,Z FILES (GMS DERIVED 1.49 RAL DREDGE ELEVATIONS) DATED 10/11/04 AND BRENNAN'S 11-16-04 POST-DREDGE SURVEY.
3. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
4. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
5. SUB-AREA POG2 DELINEATION FROM CH2MHILL.

GW PARTNERS

FIGURE 3B

LOWER FOX RIVER - SUB-AREA POG2
NOVEMER 16, 2004 POST-DREDGE ISOPACH

Prepared By: Foth & Van Dyke	Date: JANUARY, 2005
Drawn By: JRB2	Checked By: DMR	Scope: 04G007

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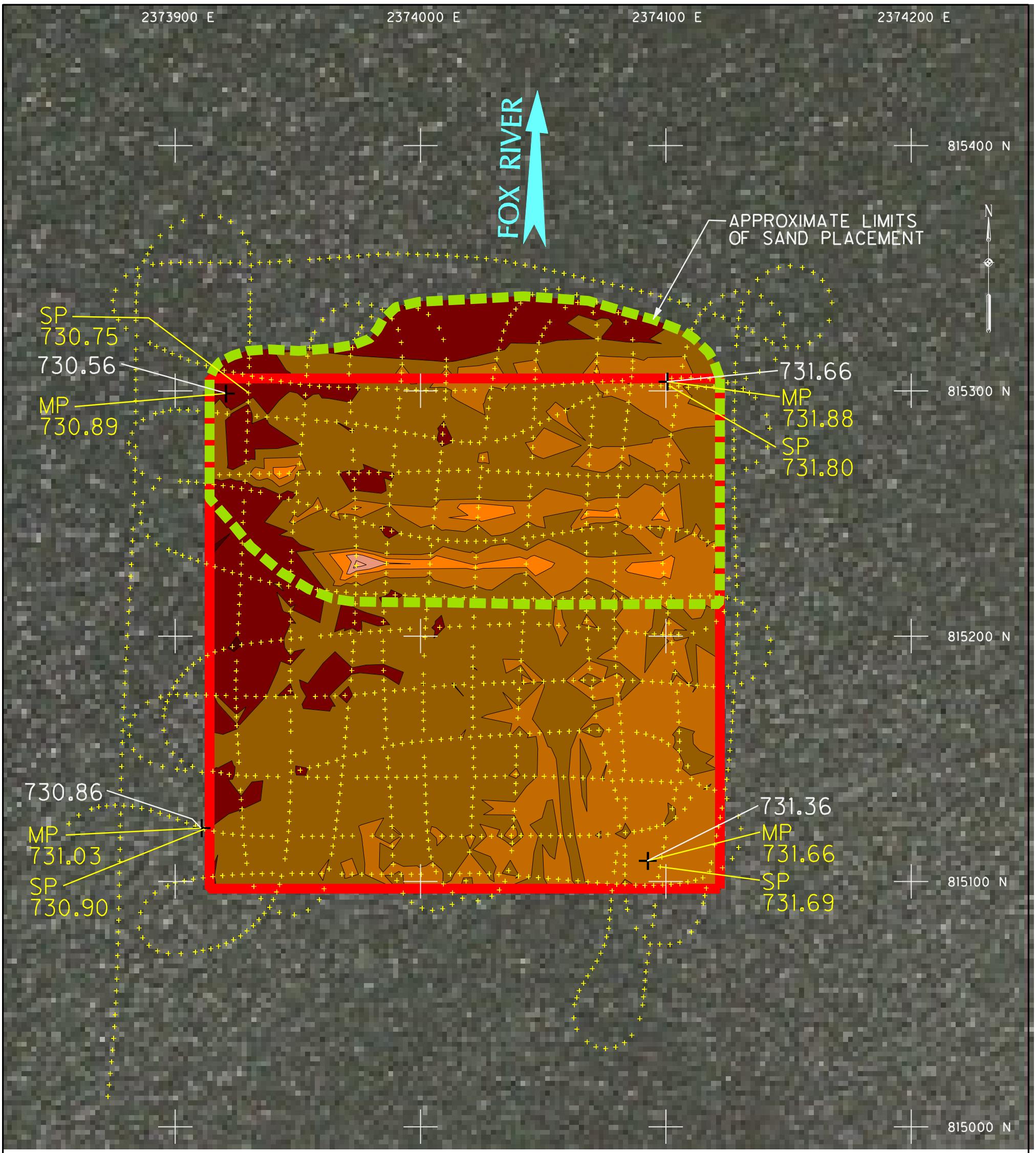
1/18/2005 jrb2



LEGEND

TOP OF SAND ELEVATION

- 729.5′ - 730.0′ ELEVATION
- 730.0′ - 730.5′ ELEVATION
- 730.5′ - 731.0′ ELEVATION
- 731.0′ - 731.5′ ELEVATION
- 731.5′ - 732.0′ ELEVATION
- 732.0′ - 732.5′ ELEVATION
- 732.5′ - 733.0′ ELEVATION
- 733.0′ - 733.5′ ELEVATION
- 733.5′ - 734.0′ ELEVATION

\+ BRENNAN DECEMBER 6TH SURVEY POINT

\+ FOTH & VAN DYKE 12/06/04 POLING LOCATION WITH ELEVATION

SP SURVEY POINT WITH ELEVATION

MP MODEL POINT WITH ELEVATION (SEE NOTE 2)

APROXIMATE 2004 SAND PLACEMENT LIMITS (22,840 SQ. FT. / 0.52 ACRES)

PROPOSED SAND PLACEMENT AREA (43,260 SQ. FT. / 1.0 ACRE)

AVERAGE ELEVATION DIFFERENCE BETWEEN F&VD POLING LOCATIONS AND ADJACENT BRENNAN SURVEY POINTS
0.18 FT. (POLING HIGHER)

AVERAGE ELEVATION DIFFERENCE BETWEEN F&VD POLING LOCATIONS AND MODEL ELEVATION AT SAME POINT
0.26 FT. (POLING HIGHER)

NOTES:

1. TOP OF SAND CONTOURS REPRESENT BRENNAN'S DECEMBER 6, 2004 POST SAND PLACEMENT SURVEY.
2. MODEL POINT REPRESENTS THE 3-DIMENSION MODEL CREATED BY FOTH & VAN DYKE FROM BRENNAN'S SURVEY POINTS.
3. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
4. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
5. SAND PLACEMENT TEST AREA LOCATED IN SUB-AREA E4.

DRAFT

0 20′ 40′ 60′ 80′

BAR SCALE

Foth & Van Dyke

GLATFELTER

FIGURE 4A

LOWER FOX RIVER
SAND PLACEMENT TEST AREA
DEC. 6, 2004 POST-SAND PLACEMENT ELEVATIONS

Prepared By: Foth & Van Dyke	Date: JANUARY 2005
Drawn By: JRB2	Checked By: DMR	Scope: 04G007

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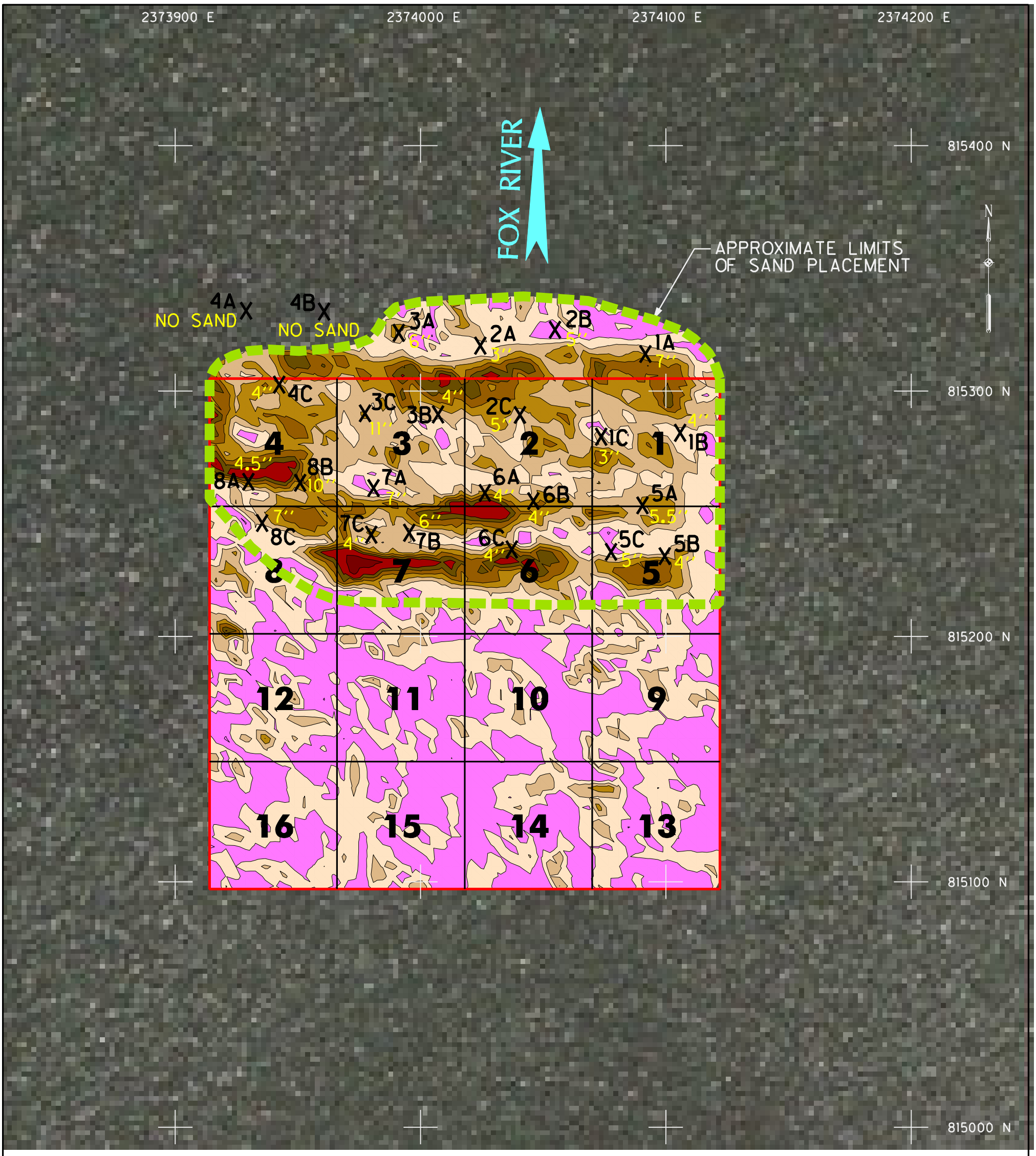
1/18/2005 jrb2



ELEVATION DIFFERENCES ①

- 0.0 - 0.5′ 12-06-04 SURVEY BELOW 11-09-04 SURVEY
- 0.0 - 0.2′ 12-06-04 SURVEY ABOVE 11-09-04 SURVEY
- 0.2 - 0.4′ 12-06-04 SURVEY ABOVE 11-09-04 SURVEY
- 0.4 - 0.6′ 12-06-04 SURVEY ABOVE 11-09-04 SURVEY
- 0.6 - 0.8′ 12-06-04 SURVEY ABOVE 11-09-04 SURVEY
- 0.8 - 1.0′ 12-06-04 SURVEY ABOVE 11-09-04 SURVEY
- 1.0 - 1.5′ 12-06-04 SURVEY ABOVE 11-09-04 SURVEY
- 1.5 - 2.0′ 12-06-04 SURVEY ABOVE 11-09-04 SURVEY

LEGEND

- 14 — SAND PLACEMENT REGION
- X 6A 4″ — SAND THICKNESS TEST LOCATION WITH MEASURED SAND THICKNESS
- APPROXIMATE 2004 SAND PLACEMENT LIMITS (22,840 SQ. FT. / 0.52 ACRES)
- PROPOSED SAND PLACEMENT AREA (43,260 SQ. FT. / 1.0 ACRE)

SAND VOLUME PLACEMENT (FROM ISOPACH MAP)
305 CU. YDS.
AVERAGE MEASURED SAND THICKNESS
5.3 INCHES
APPROX. SAND PLACEMENT AREA
(22,840 SQ. FT. / 0.52 ACRES)

0 20′ 40′ 60′ 80′

BAR SCALE

DRAFT

Foth & Van Dyke

NOTES:

1. SAND THICKNESS ISOPACH CREATED BY USING BRENNAN'S 11-09-04 PRE-SAND PLACEMENT SURVEY VS BRENNAN'S DECEMBER 6, 2004 POST-SAND PLACEMENT SURVEY.
2. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
3. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
4. SAND PLACEMENT TEST AREA LOCATED IN SUB-AREA E4.

GLATFELTER

FIGURE 4B

LOWER FOX RIVER
SAND PLACEMENT AREA
DEC. 6, 2004 POST-SAND PLACEMENT ISOPACH

Prepared By: Foth & Van Dyke	Date: JANUARY 2005
Drawn By: JRB2	Checked By: JBH1	Scope: 04G007

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1/18/2005 jrb2

Appendix F
Confirmatory Sampling

GW Partners
Lower Fox River - OU-1
04G007
Post Dredge Sediment Sampling Results

Sample Date	Sample ID	Sample Location	Sample Type	Percent Solids (%)	Percent Solids Air Dried (%)	Total PCBs (ug/Kg)
Sub-area A Region IV						
10/11/04	I-RA-04-OOOA-PS-1P	A19/26	Primary	61	100	1200
10/11/04	I-RA-04-OOOA-PS-6P	A20	Primary	62	100	1700
10/11/04	I-RA-04-OOOA-PS-7S-10S	A20	Secondary Composite	69	99.7	550
10/11/04	I-RA-04-OOOA-PS-11P	A21	Primary	72	100	290
10/11/04	I-RA-04-OOOA-PS-21P	A27	Primary	53	100	460
10/12/04	I-RA-04-OOOA-PS-16P	A28	Primary	69	99.8	440
			Average PCB Concentration: 0.77 PPM			
Sub-area A Region VIIIR						
10/25/04	I-RA-04-OOOA-PS-26P	A78	Primary	64	98.6	<27
10/25/04	I-RA-04-OOOA-PS-31P	A79	Primary	42	98.3	950
10/25/04	I-RA-04-OOOA-PS-36P	A92	Primary	22	96.6	1900
10/25/04	I-RA-04-OOOA-PS-37S-40S	A92	Secondary Composite	28	98	2000
10/25/04	I-RA-04-OOOA-PS-41P	A93	Primary	57	98.6	230
10/25/04	I-RA-04-OOOA-PS-46P	A94	Primary	23	97.3	5000
10/25/04	I-RA-04-OOOA-PS-47S-50S	A94	Secondary Composite	42	98.8	1700
10/25/04	I-RA-04-OOOA-PS-ATE1-51	A78 (ATE 1)	Above Target Elevation	48	98.3	69(Q)
10/25/2004[1]	I-RA-04-OOOA-PS-ATE2-52	A78 (ATE 2)	Above Target Elevation	27	97.7	4000
10/25/04	I-RA-04-OOOA-PS-ATE3-53	A78 (ATE 3)	Above Target Elevation	45	98.3	780
10/25/2004[1]	I-RA-04-OOOA-PS-ATE4-54	A79 (ATE 1)	Above Target Elevation	22	97.5	5400
10/25/2004[1]	I-RA-04-OOOA-PS-ATE1-55	A92 (ATE 1)	Above Target Elevation	22	97.4	8500
10/25/04	I-RA-04-OOOA-PS-ATE1-56	A93 (ATE 1)	Above Target Elevation	57	98.5	94
12/09/2004[2]	I-RA-04-OOOA-PS-58	A78 (ATE 2)	Above Target Elevation	54	99	460
12/09/2004[2]	I-RA-04-OOOA-PS-60	A79 (ATE 1)	Above Target Elevation	30	99	2700
12/09/2004[2]	I-RA-04-OOOA-PS-61	A92 (ATE 1)	Above Target Elevation	33	99	1800
			Average PCB Concentration: 1.36 PPM			

Q - Result between LOD and LOQ.
ATE - Above Target Elevation

[1] Sediment locations resampled on 12/09/04 after re-dredging. These locations were not used in the PCB average residual concentration for 2004.

[2] Sediment sampled after "above target elevation" areas were re-dredged.

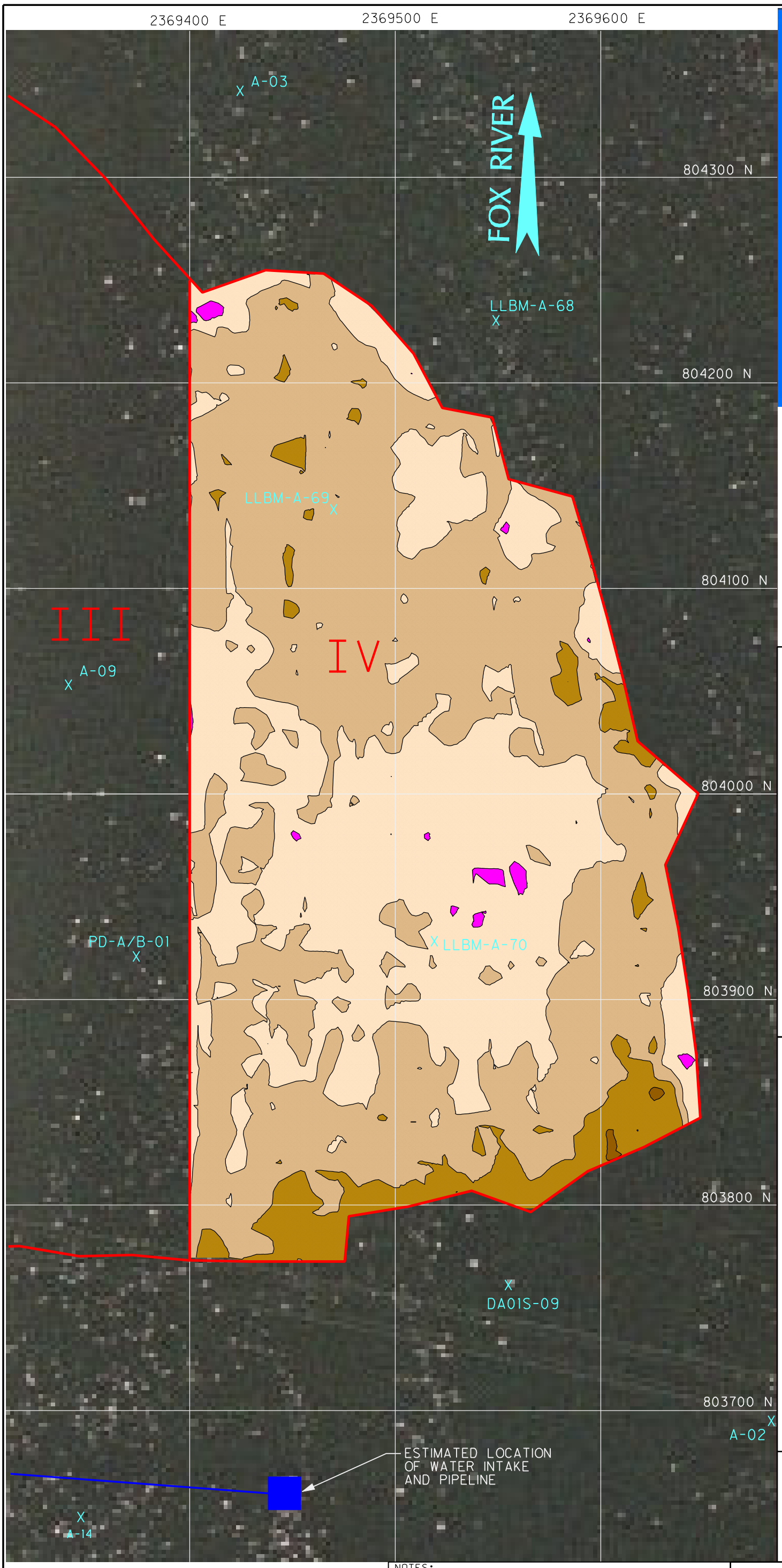
PCB Mass Calculation

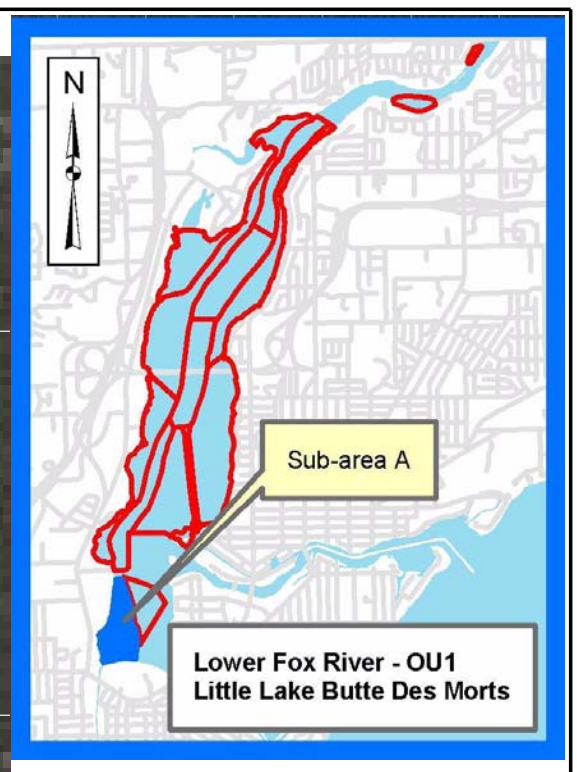
Geotextile Tube No.	Gs, Specific Gravity	Sediment Percent Solids	Length (ft)	Width (ft)	Ave Thickness (ft)	Volume (cf)	Moisture content (%)	Dry Unit Weight of Sediment (pcf)	PCB Concentration (ppb)	Dry Weight of Sediment (tons)	PCB in Geotextile Tube (pounds)
1	2.5	51.4	56	25	3.28	4592	94.6	46.4	170	106.5	0.036
2	2.5	50.4	84	25	4.13	8673	98.4	45.1	200	195.5	0.078
3	2.5	43.3	141	25	4.68	16497	130.9	36.5	800	301.1	0.482
4	2.5	61.1	136	28	4.6	17516.8	63.7	60.2	86	527.2	0.091
5	2.5	56.0	118	25	5.28	15576	78.6	52.6	1000	409.9	0.820
6	2.4	64.0	114	25	5.16	14706	56.3	63.7	590	468.6	0.553
7	2.4	35.0	122	25	4.42	13481	185.7	27.4	3200	185.0	1.184
8	2.5	47.0	84	25	3.73	7833	112.8	40.8	170	160.0	0.054
9	2.5	51.0	142	25	4.1	14555	96.1	45.9	120	333.7	0.080
10	2.5	49.7	142	25	3.4	12070	101.2	44.2	160	266.7	0.085
11	2.5	47.0	142	25	3.72	13206	112.8	40.8	1200	269.7	0.647
12	2.4	82.0	142	25	6.1	21655	22.0	98.1	110	1062.0	0.234
13	2.4	69.9	142	25	4.84	17182	43.1	73.6	440	632.7	0.557
14	2.4	61.0	136	25	4.64	15776	63.9	59.1	970	466.1	0.904
15	2.4	43.6	60	60	2.57	9252	129.4	36.5	1700	168.8	0.574
16	2.4	46.0	105	20.5	3.04	6543.6	117.4	39.2	1100	128.4	0.282
17	2.4	28.3	60	60	2.82	10152	253.4	21.2	5400	107.4	1.160
18	2.4	28.0	166	23	4.4	16799.2	257.1	20.9	7000	175.4	2.456
19	2.4	29.0	145	25	3.775	13684.375	244.8	21.8	6300	149.0	1.878
20	2.4	32.5	43	25	5.1	5482.5	207.7	25.0	4200	68.6	0.576
B1	2.4	25.0	108	25	3.7	9990	300.0	18.3	5800	91.2	1.058
B2	2.4	34.0	108	25	4.5	12150	194.1	26.5	2400	160.8	0.772
B3	2.4	31.4	130	25	4.5	14625	218.5	24.0	3800	175.4	1.333
B4	2.4	27.0	126	25	3.8	11970	270.4	20.0	4600	119.7	1.101
B5	2.4	34.0	114	27	4.54	13974.12	194.1	26.5	4300	184.9	1.590
B6	2.4	30.0	114	26	4.82	14286.48	233.3	22.7	5000	162.1	1.621
B7	2.4	27.0	117	25	4.34	12694.5	270.4	20.0	16000	126.9	4.062
B8	2.4	26.0	100	25	2.14	5350	284.6	19.1	5200	51.2	0.532
B9	2.4	30.0	133	25	2.92	9709	233.3	22.7	4200	110.2	0.925
B10	2.4	37.7	130	25	3.875	12593.75	165.3	30.2	3300	189.9	1.253
B11	2.4	28.0	137	28	3.72	14269.92	257.1	20.9	5100	149.0	1.520
C1	2.4	26.0	112	25	4.18	11704	284.6	19.1	6200	111.9	1.388
C2	2.4	28.0	104	25	4.18	10868	257.1	20.9	5900	113.5	1.339
C3	2.4	30.0	102	25	4.12	10506	233.3	22.7	5400	119.2	1.287
C4	2.4	26.0	100	20	3.72	7440	284.6	19.1	4800	71.1	0.683
C5	2.4	26.0	110	25	3.28	9020	284.6	19.1	1800	86.3	0.311
D1	2.4	47.0	166	30	4.8	23904	112.8	40.4	1600	482.9	1.545
D2	2.4	38.0	111	27	4.46	13366.62	163.2	30.5	2500	203.6	1.018
D3	2.4	35.0	197	25	4.54	22359.5	185.7	27.4	2800	306.8	1.718
E1	2.4	30.0	96	25	3.72	8928	233.3	22.7	5000	101.3	1.013
tubelet 1AA	2.4	46.5	24	25	2.5	1500	115.1	39.8	2300	29.9	0.137
tubelet 1BB	2.4	33.2	27	25	3.47	2342.25	201.2	25.7	5100	30.1	0.307
tubelet 2A	2.4	28.3	26	25	3.23	2099.5	253.4	21.2	8300	22.2	0.369
tubelet 1A	2.4					0					
tubelet 1B	2.4					0					
tubelet 3A	2.4	26	27	19	1.6	820.8	284.6	19.1	910	7.8	0.014

Note: Tubelet 1A and 1B (30' x 30' tube) were not measured or sampled.

Percent solids pertain to the sediment within each geotextile tube on the date it was sampled.

PCB (pound) = (dry unit weight,pcf) x (tube volume, cf) x (PCB concentration,ppb)/1,000,000,000; assume sediment is saturated, then (dry unit weight,pcf) = (specific gravity)(water unit weight,pcf)/[1 + ((moisture content,%)/100)(specific gravity)]





N

SEDIMENT REMAINING

REGION IV INSIDE LIMITS
ABOVE 1 PPM RAL
1 C.Y.

SEDIMENT OVERCUT

REGION IV INSIDE LIMITS
BELOW 1 PPM RAL
2,030 C.Y.

AVERAGE OVERCUT

2,030 c.y. x 27 ft^3/cy / 91,985 ft^2
0.60 FT.

SEDIMENT REMOVAL

REGION IV INSIDE LIMITS
3,660 C.Y.

REGION IV INSIDE & OUTSIDE LIMITS
4,280 C.Y.

LEGEND

SEDIMENT REMOVAL

- 0.0 - 0.17′ REMAINING ABOVE 1 PPM RAL (.5% OF AREA)
- 0.0 - 0.5′ CUT BELOW 1 PPM RAL (36% OF AREA)
- 0.5 - 1.0′ CUT BELOW 1 PPM RAL (55.5% OF AREA)
- 1.0 - 1.5′ CUT BELOW 1 PPM RAL (7% OF AREA)
- 1.5 - 1.9′ CUT BELOW 1 PPM RAL (1% OF AREA)

A-03 X — CORING SAMPLE LOCATIONS

IV — 2004 REMOVAL REGION (91,985 SQ. FT. / 2.11 ACRES)

0 25′ 50′ 75′ 100′
BAR SCALE

Foth & Van Dyke

NOTES:

1. SEDIMENT ISOPACH CREATED BY USING GMS DERIVED 1 PPM DREDGE CONTOURS VS BRENNAN'S OCTOBER 5, 2004 SURVEY.
2. SEDIMENT REMOVAL VOLUMES OBTAINED USING BRENNAN'S SEPTEMBER 4 AND OCTOBER 5, 2004 SURVEYS.
3. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
4. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
5. SUB-AREA A DELINEATION FROM 2003 PRE-DESIGN SAMPLING PLAN.

GW PARTNERS

FIGURE 1

LOWER FOX RIVER
SUB-AREA A - REGION IV
POST DREDGE ISOPACH MAP

Prepared By: Foth & Van Dyke	Date: OCT. 6, 2004
Drawn By: JRB2	Checked By: DMR	Scope: 04G007

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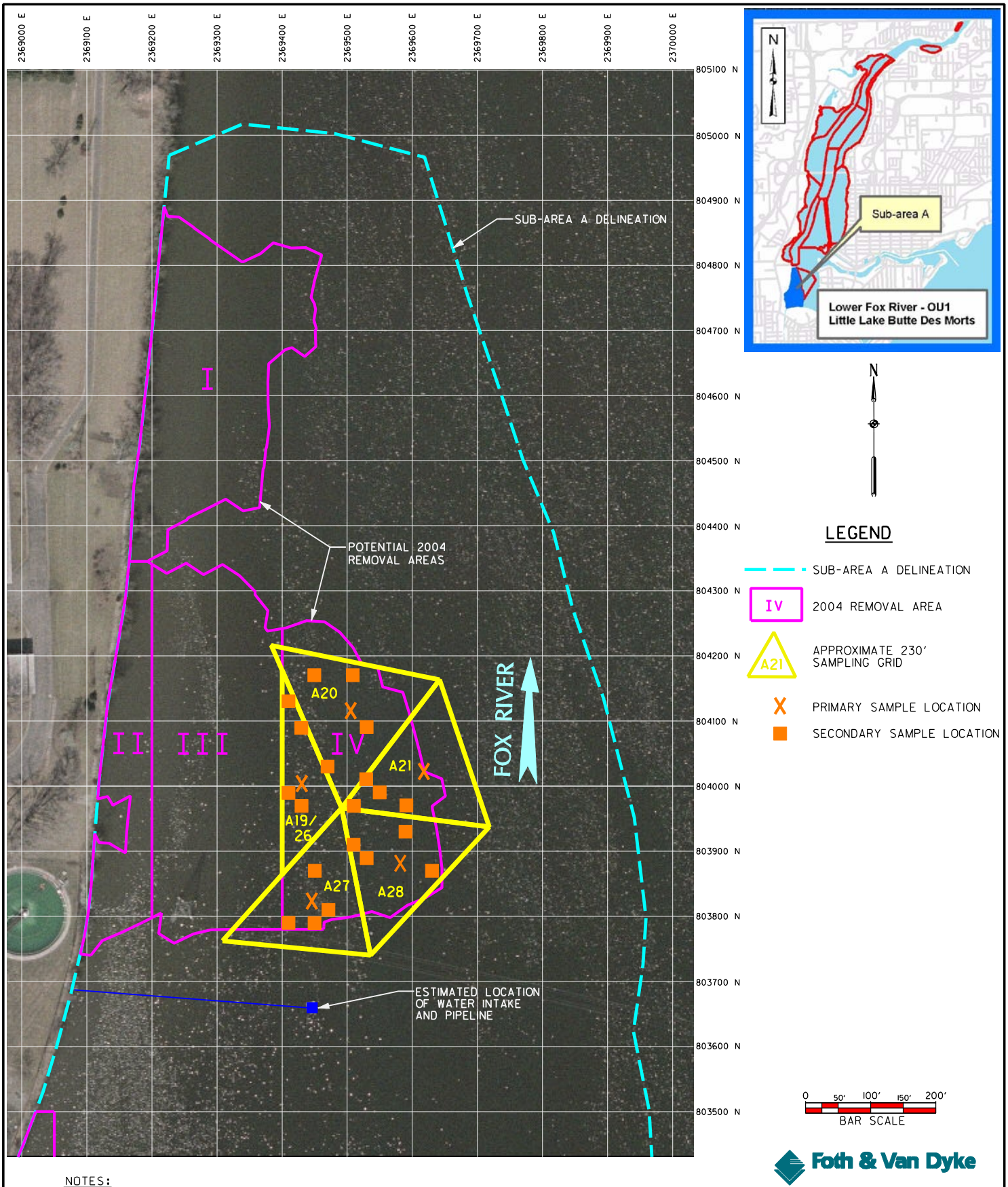

Foth & Van Dyke

NOTES:

1. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
2. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
3. SUB-AREA A DELINEATION FROM 2003 PRE-DESIGN SAMPLING PLAN.
4. REGION IV DREDGED IN FALL 2004. REGIONS I - III HAVE NOT BEEN DREDGED AS OF OCTOBER 2004.

GW PARTNERS

FIGURE 1

LOWER FOX RIVER - SUB-AREA A
REGION IV
POST DREDGE SEDIMENT SAMPLE LOCATIONS

Prepared By: Foth & Van Dyke	Date: OCTOBER, 2004
Drawn By: JRB2	Checked By: JBH1	Scope: 04G007

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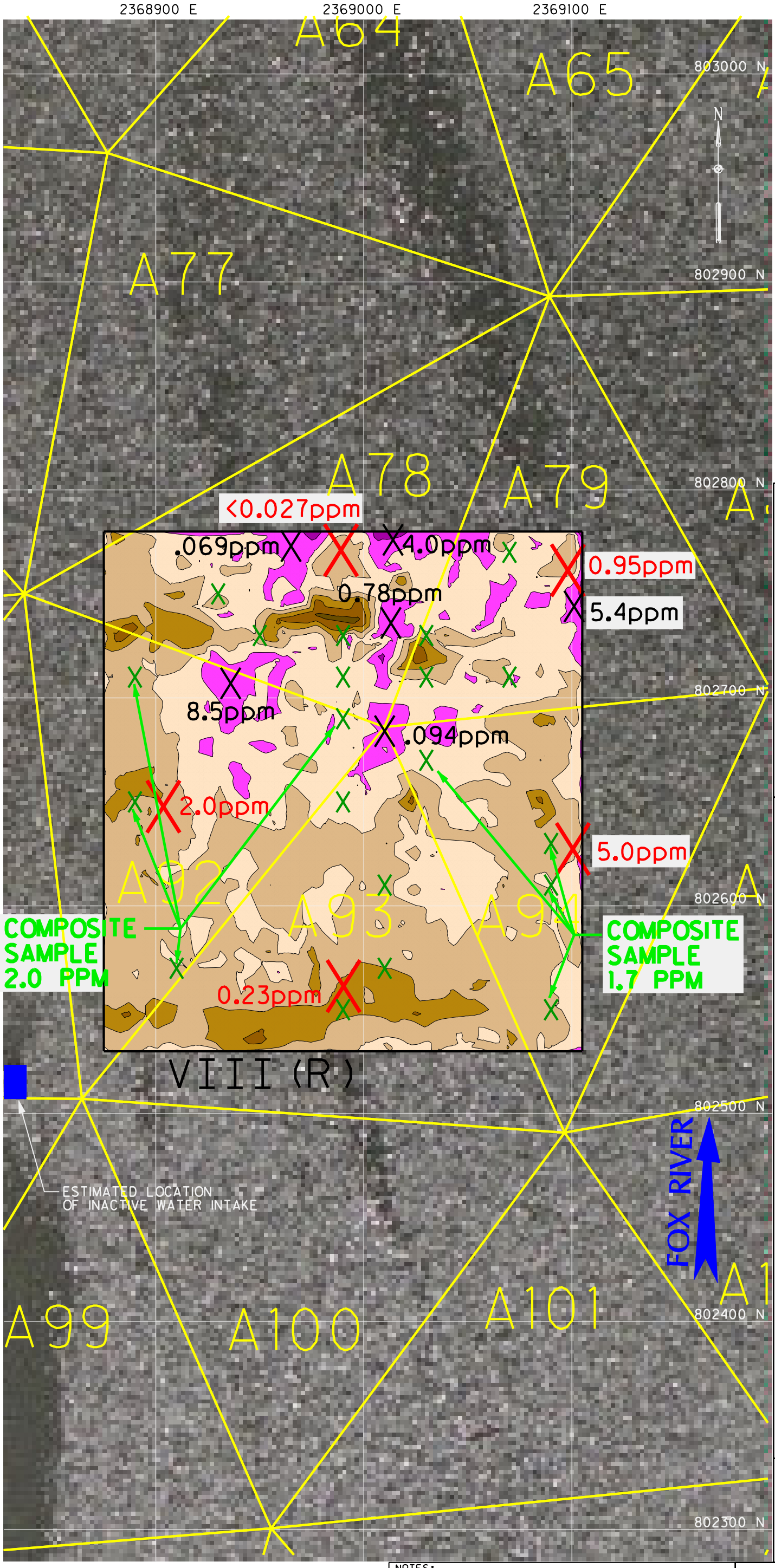

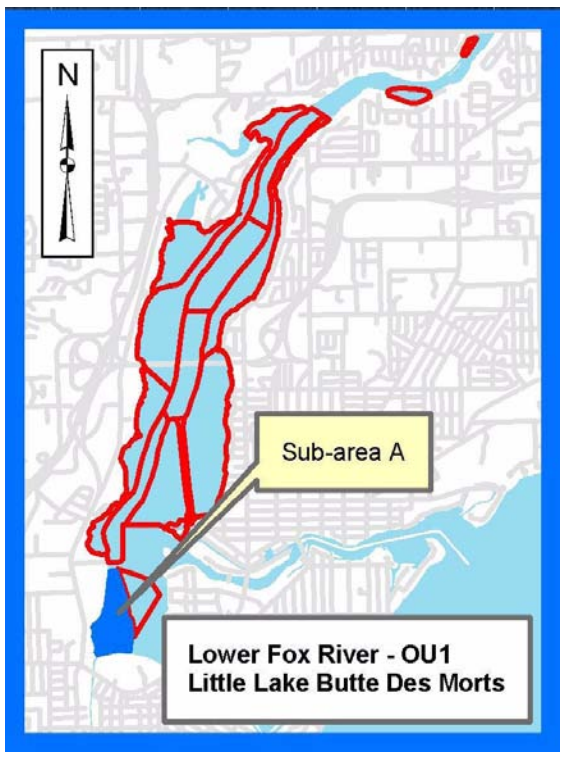

SEDIMENT REMAINING

REGION VIII (R) INSIDE LIMITS
ABOVE 1 PPM RAL
24 C.Y.

SEDIMENT OVERCUT

REGION VIII (R) INSIDE LIMITS
BELOW 1 PPM RAL
1.130 C.Y.

SEDIMENT REMOVAL

REGION VIII (R) INSIDE LIMITS
3.440 C.Y.

REGION VIII (R) INSIDE & OUTSIDE LIMITS
3.700 C.Y.

LEGEND

SEDIMENT REMOVAL

- 0.5 - 0.9′ REMAINING ABOVE 1 PPM RAL (0.2% OF AREA)
- 0.0 - 0.5′ REMAINING ABOVE 1 PPM RAL (8% OF AREA)
- 0.0 - 0.5′ CUT BELOW 1 PPM RAL (37% OF AREA)
- 0.5 - 1.0′ CUT BELOW 1 PPM RAL (46% OF AREA)
- 1.0 - 1.5′ CUT BELOW 1 PPM RAL (8% OF AREA)
- 1.5 - 2.0′ CUT BELOW 1 PPM RAL (0.7% OF AREA)
- 2.0 - 2.2′ CUT BELOW 1 PPM RAL (0.1% OF AREA)

X SECONDARY SAMPLE LOCATION

X ADDITIONAL SAMPLE LOCATION WITH LAB RESULTS

X PRIMARY SAMPLE LOCATION WITH LAB RESULTS

VIII (R) 2004 REMOVAL REGION

0 25′ 50′ 75′ 100′
BAR SCALE

Foth & Van Dyke

NOTES:

1. SEDIMENT ISOPACH CREATED BY USING GMS DERIVED 1 PPM DREDGE CONTOURS VS BRENNAN'S OCTOBER 18, 2004 SURVEY.
2. SEDIMENT REMOVAL VOLUMES OBTAINED USING BRENNAN'S SEPTEMBER 10 AND OCTOBER 18, 2004 SURVEYS.
3. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
4. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
5. SUB-AREA A DELINEATION FROM 2003 PRE-DESIGN SAMPLING PLAN.

GW PARTNERS

FIGURE 1

LOWER FOX RIVER
SUB-AREA A - REGION VIII (R)
MODIFIED POST DREDGE SAMPLING PLAN

Prepared By: Foth & Van Dyke	Date: NOV. 16, 2004	
Drawn By: JRB2	Checked By: DMR	Scope: 04G007

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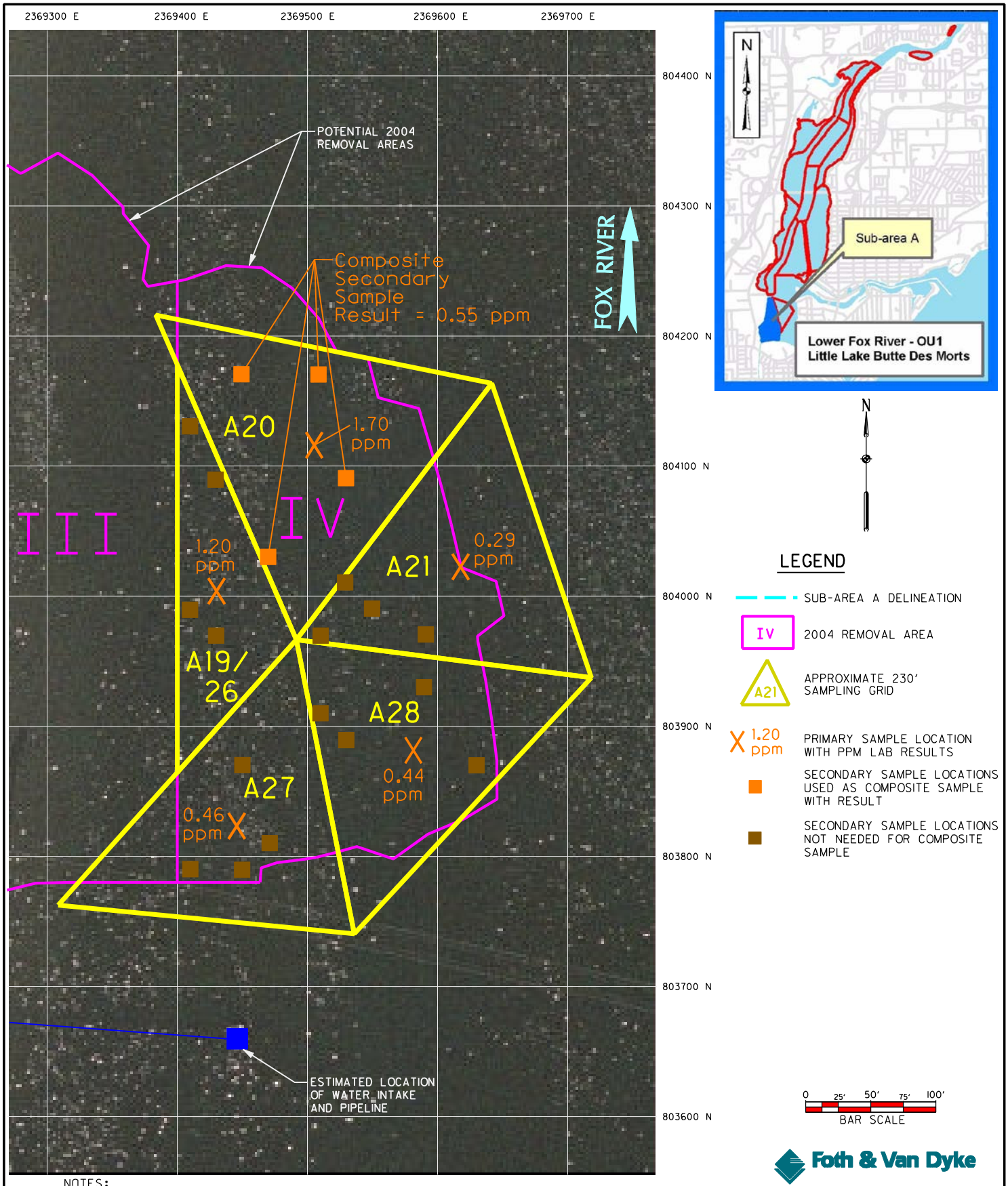

Foth & Van Dyke

NOTES:

1. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
2. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
3. SUB-AREA A DELINEATION FROM 2003 PRE-DESIGN SAMPLING PLAN.
4. REGION IV DREDGED IN FALL 2004. REGIONS I - III HAVE NOT BEEN DREDGED AS OF OCTOBER 2004.

GW PARTNERS

FIGURE 1

LOWER FOX RIVER - SUB-AREA A
REGION IV
POST DREDGE SEDIMENT SAMPLE RESULTS

Prepared By: Foth & Van Dyke	Date: NOVEMBER, 2004	
Drawn By: JRB2	Checked By: JBH1	Scope: 04G007

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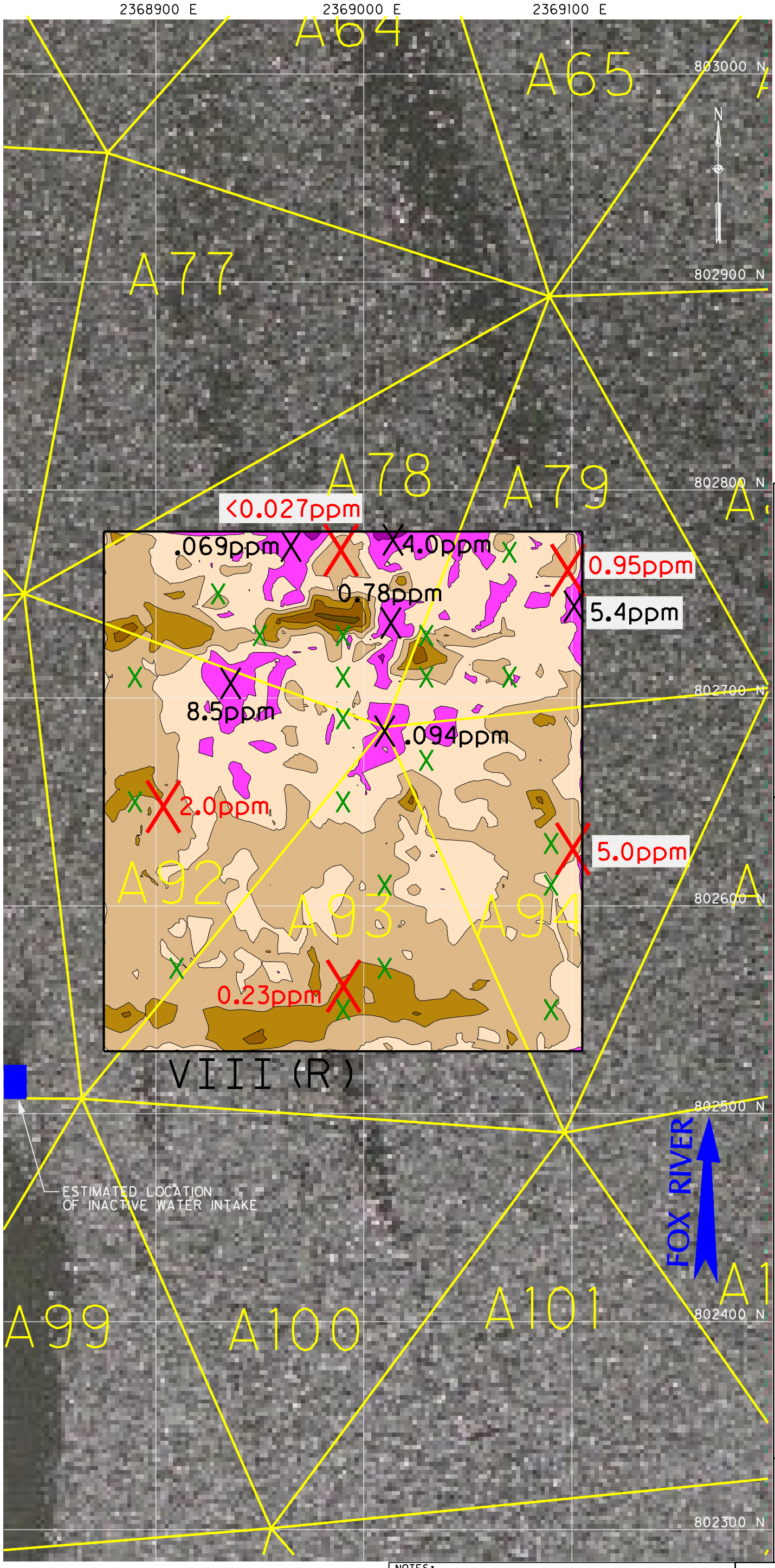

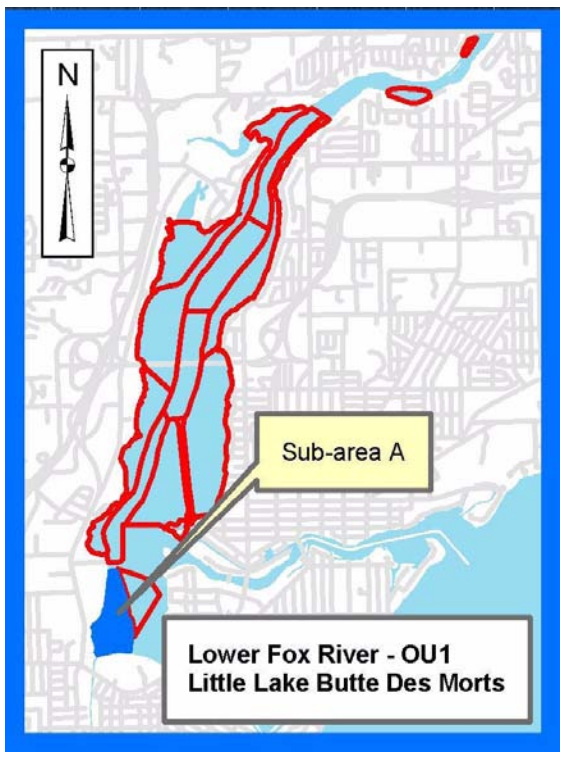

SEDIMENT REMAINING

REGION VIII (R) INSIDE LIMITS
ABOVE 1 PPM RAL
24 C.Y.

SEDIMENT OVERCUT

REGION VIII (R) INSIDE LIMITS
BELOW 1 PPM RAL
1.130 C.Y.

SEDIMENT REMOVAL

REGION VIII (R) INSIDE LIMITS
3.440 C.Y.

REGION VIII (R) INSIDE & OUTSIDE LIMITS
3.700 C.Y.

LEGEND

SEDIMENT REMOVAL

- 0.5 - 0.9′ REMAINING ABOVE 1 PPM RAL (0.2% OF AREA)
- 0.0 - 0.5′ REMAINING ABOVE 1 PPM RAL (8% OF AREA)
- 0.0 - 0.5′ CUT BELOW 1 PPM RAL (37% OF AREA)
- 0.5 - 1.0′ CUT BELOW 1 PPM RAL (46% OF AREA)
- 1.0 - 1.5′ CUT BELOW 1 PPM RAL (8% OF AREA)
- 1.5 - 2.0′ CUT BELOW 1 PPM RAL (0.7% OF AREA)
- 2.0 - 2.2′ CUT BELOW 1 PPM RAL (0.1% OF AREA)

X SECONDARY SAMPLE LOCATION

X ADDITIONAL SAMPLE LOCATION WITH LAB RESULTS

X PRIMARY SAMPLE LOCATION WITH LAB RESULTS

VIII (R) 2004 REMOVAL REGION

0 25′ 50′ 75′ 100′
BAR SCALE

Foth & Van Dyke

NOTES:

1. SEDIMENT ISOPACH CREATED BY USING GMS DERIVED 1 PPM DREDGE CONTOURS VS BRENNAN'S OCTOBER 18, 2004 SURVEY.
2. SEDIMENT REMOVAL VOLUMES OBTAINED USING BRENNAN'S SEPTEMBER 10 AND OCTOBER 18, 2004 SURVEYS.
3. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
4. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
5. SUB-AREA A DELINEATION FROM 2003 PRE-DESIGN SAMPLING PLAN.

GW PARTNERS

FIGURE 3

LOWER FOX RIVER
SUB-AREA A - REGION VIII (R)
MODIFIED POST DREDGE SAMPLING PLAN

Prepared By: Foth & Van Dyke	Date: NOV. 3, 2004	
Drawn By: JRB2	Checked By: DMR	Scope: 04G007

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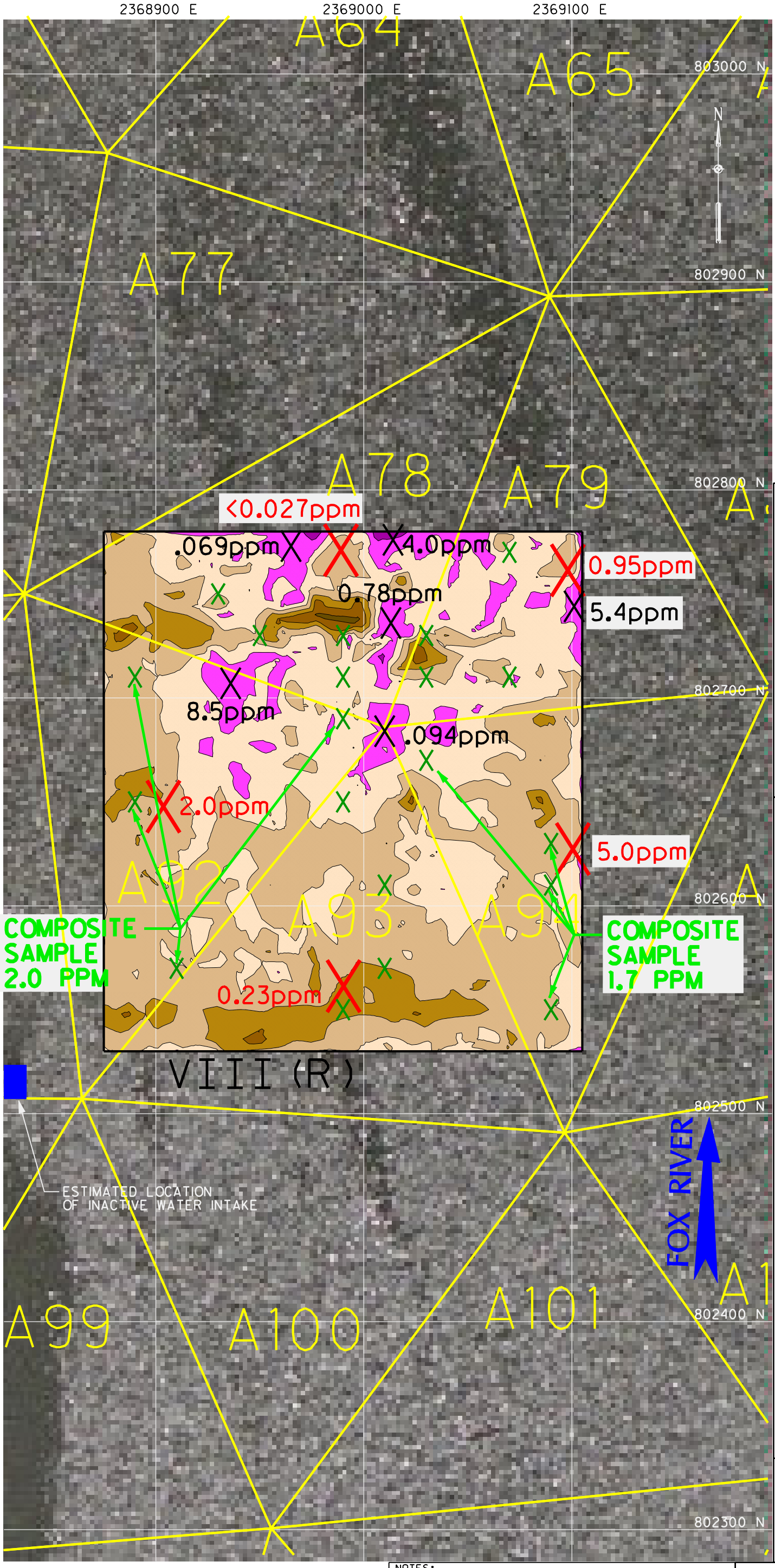

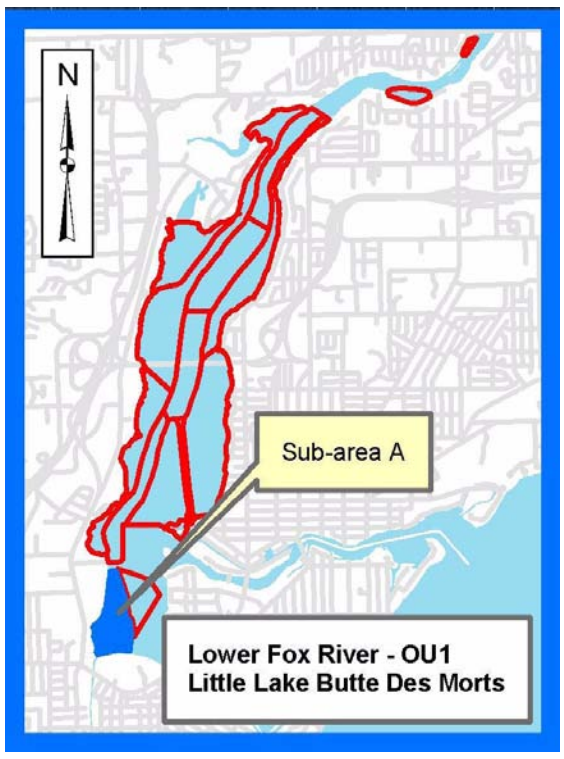

SEDIMENT REMAINING

REGION VIII (R) INSIDE LIMITS
ABOVE 1 PPM RAL
24 C.Y.

SEDIMENT OVERCUT

REGION VIII (R) INSIDE LIMITS
BELOW 1 PPM RAL
1.130 C.Y.

SEDIMENT REMOVAL

REGION VIII (R) INSIDE LIMITS
3.440 C.Y.

REGION VIII (R) INSIDE & OUTSIDE LIMITS
3.700 C.Y.

LEGEND

SEDIMENT REMOVAL

- 0.5 - 0.9′ REMAINING ABOVE 1 PPM RAL (0.2% OF AREA)
- 0.0 - 0.5′ REMAINING ABOVE 1 PPM RAL (8% OF AREA)
- 0.0 - 0.5′ CUT BELOW 1 PPM RAL (37% OF AREA)
- 0.5 - 1.0′ CUT BELOW 1 PPM RAL (46% OF AREA)
- 1.0 - 1.5′ CUT BELOW 1 PPM RAL (8% OF AREA)
- 1.5 - 2.0′ CUT BELOW 1 PPM RAL (0.7% OF AREA)
- 2.0 - 2.2′ CUT BELOW 1 PPM RAL (0.1% OF AREA)

X SECONDARY SAMPLE LOCATION

X ADDITIONAL SAMPLE LOCATION WITH LAB RESULTS

X PRIMARY SAMPLE LOCATION WITH LAB RESULTS

VIII (R) 2004 REMOVAL REGION

0 25′ 50′ 75′ 100′
BAR SCALE

Foth & Van Dyke

NOTES:

1. SEDIMENT ISOPACH CREATED BY USING GMS DERIVED 1 PPM DREDGE CONTOURS VS BRENNAN'S OCTOBER 18, 2004 SURVEY.
2. SEDIMENT REMOVAL VOLUMES OBTAINED USING BRENNAN'S SEPTEMBER 10 AND OCTOBER 18, 2004 SURVEYS.
3. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
4. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
5. SUB-AREA A DELINEATION FROM 2003 PRE-DESIGN SAMPLING PLAN.

GW PARTNERS

FIGURE 1

LOWER FOX RIVER
SUB-AREA A - REGION VIII (R)
MODIFIED POST DREDGE SAMPLING PLAN

Prepared By: Foth & Van Dyke	Date: NOV. 16, 2004	
Drawn By: JRB2	Checked By: DMR	Scope: 04G007

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2368900 E
2369000 E
2369100 E

803000 N
802900 N
802800 N
802700 N
802600 N
802500 N
802400 N
802300 N

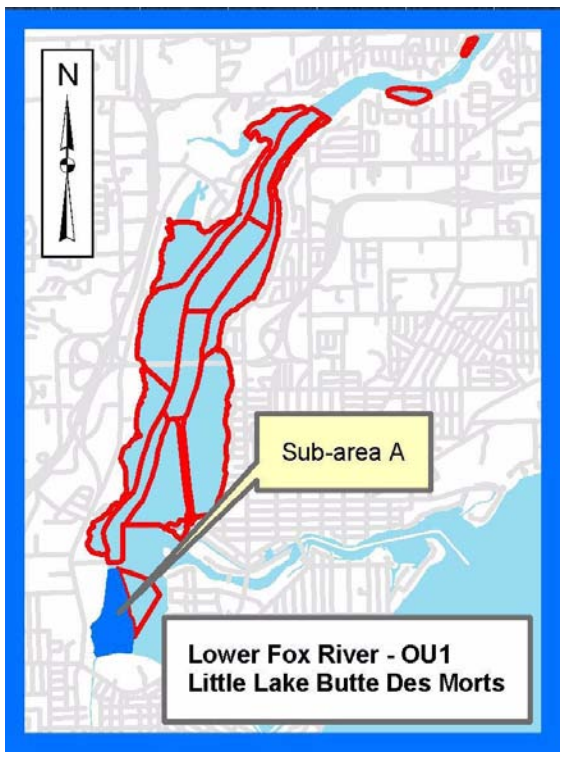
I-0001A1-N-E-0308
A-22
BA-SD25
I-001AC2-S-E-0206
A-24
BA-SD21
I-BASD06-W-E-0309
I-BASD06-S-E-0309
PD-A/B-08
BA-SD06
BA-SD17
I-0002A6-N-E-0308
BA-SD18
I-0002A6-S-D-0308
DA01S-21
BA-SD05
BA-SD15
I-0001AC1-S-E-0308
I-0002A1-N-E-0208

VIII (R)

ESTIMATED LOCATION
OF INACTIVE WATER INTAKE

FOX RIVER

* NOT FINAL DREDGING CUTS



N

SEDIMENT REMAINING

REGION VIII (R) INSIDE LIMITS
ABOVE 1 PPM RAL
24 C.Y.

SEDIMENT OVERCUT

REGION VIII (R) INSIDE LIMITS
BELOW 1 PPM RAL
1,130 C.Y.

AVERAGE OVERCUT

1,130 c.y. x 27 ft^3/cy / 57,500 ft^2
0.53 FT.

SEDIMENT REMOVAL

REGION VIII (R) INSIDE LIMITS
3,440 C.Y.

REGION VIII (R) INSIDE & OUTSIDE LIMITS
3,700 C.Y.

LEGEND

SEDIMENT REMOVAL

- 0.5 - 0.9′ REMAINING ABOVE 1 PPM RAL (0.2% OF AREA)
- 0.0 - 0.5′ REMAINING ABOVE 1 PPM RAL (8% OF AREA)
- 0.0 - 0.5′ CUT BELOW 1 PPM RAL (37% OF AREA)
- 0.5 - 1.0′ CUT BELOW 1 PPM RAL (46% OF AREA)
- 1.0 - 1.5′ CUT BELOW 1 PPM RAL (8% OF AREA)
- 1.5 - 2.0′ CUT BELOW 1 PPM RAL (0.7% OF AREA)
- 2.0 - 2.2′ CUT BELOW 1 PPM RAL (0.1% OF AREA)

BA-SD17 X CORING SAMPLE LOCATIONS

VIII (R) 2004 REMOVAL REGION (57,500 AQ. FT./1.32 ACRES)

0 25′ 50′ 75′ 100′
BAR SCALE

Foth & Van Dyke

NOTES:

1. SEDIMENT ISOPACH CREATED BY USING GMS DERIVED 1 PPM DREDGE CONTOURS VS BRENNAN'S OCTOBER 18, 2004 SURVEY.
2. SEDIMENT REMOVAL VOLUMES OBTAINED USING BRENNAN'S SEPTEMBER 10 AND OCTOBER 18, 2004 SURVEYS.
3. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
4. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
5. SUB-AREA A DELINEATION FROM 2003 PRE-DESIGN SAMPLING PLAN.

GW PARTNERS

FIGURE 1A

LOWER FOX RIVER
SUB-AREA A - REGION VIII (R)
POST DREDGE ISOPACH MAP

Prepared By: Foth & Van Dyke	Date: OCT. 20, 2004
Drawn By: JRB2	Checked By: DMR	Scope: 04G007

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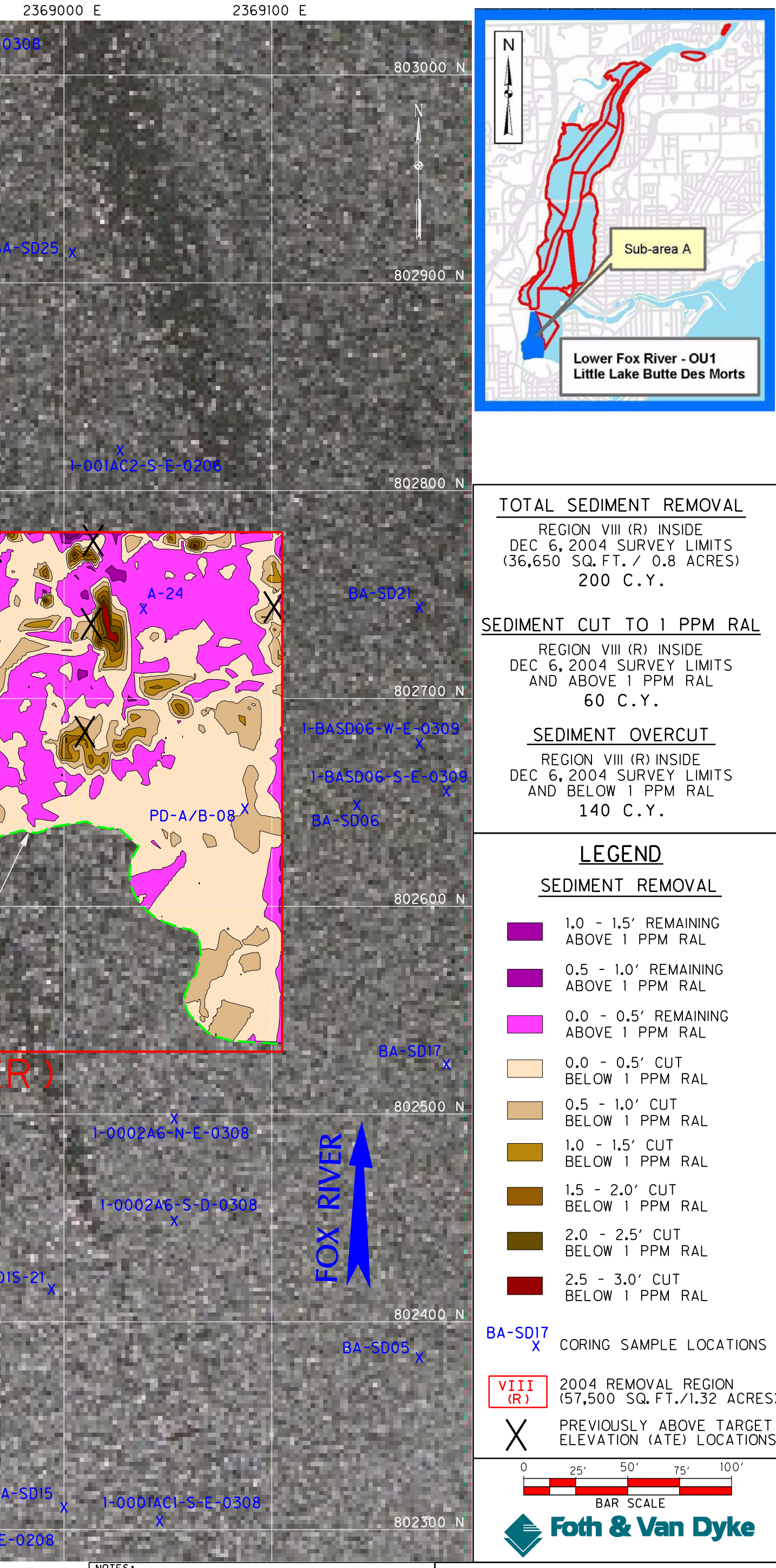

TOTAL SEDIMENT REMOVAL

REGION VIII (R) INSIDE
DEC 6, 2004 SURVEY LIMITS
(36,650 SQ. FT. / 0.8 ACRES)
200 C.Y.

SEDIMENT CUT TO 1 PPM RAL

REGION VIII (R) INSIDE
DEC 6, 2004 SURVEY LIMITS
AND ABOVE 1 PPM RAL
60 C.Y.

SEDIMENT OVERCUT

REGION VIII (R) INSIDE
DEC 6, 2004 SURVEY LIMITS
AND BELOW 1 PPM RAL
140 C.Y.

LEGEND

SEDIMENT REMOVAL

- 1.0 - 1.5′ REMAINING ABOVE 1 PPM RAL
- 0.5 - 1.0′ REMAINING ABOVE 1 PPM RAL
- 0.0 - 0.5′ REMAINING ABOVE 1 PPM RAL
- 0.0 - 0.5′ CUT BELOW 1 PPM RAL
- 0.5 - 1.0′ CUT BELOW 1 PPM RAL
- 1.0 - 1.5′ CUT BELOW 1 PPM RAL
- 1.5 - 2.0′ CUT BELOW 1 PPM RAL
- 2.0 - 2.5′ CUT BELOW 1 PPM RAL
- 2.5 - 3.0′ CUT BELOW 1 PPM RAL

BA-SD17 X — CORING SAMPLE LOCATIONS

VIII (R) — 2004 REMOVAL REGION (57,500 SQ. FT./1.32 ACRES)

X — PREVIOUSLY ABOVE TARGET ELEVATION (ATE) LOCATIONS

0 25′ 50′ 75′ 100′
BAR SCALE

Foth & Van Dyke

NOTES:

1. SEDIMENT ISOPACH CREATED BY USING GMS DERIVED 1 PPM DREDGE CONTOURS VS BRENNAN'S DECEMBER 6, 2004 SURVEY.
2. SEDIMENT REMOVAL VOLUMES OBTAINED USING BRENNAN'S OCTOBER 18 AND DECEMBER 6, 2004 SURVEYS.
3. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
4. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
5. SUB-AREA A DELINEATION FROM 2003 PRE-DESIGN SAMPLING PLAN.

GW PARTNERS

FIGURE 1B

LOWER FOX RIVER
SUB-AREA A - REGION VIII (R)
POST DREDGE ISOPACH MAP

Prepared By: Foth & Van Dyke	Date: DECEMBER, 2004
Drawn By: JRB2	Checked By: DMR	Scope: 04G007

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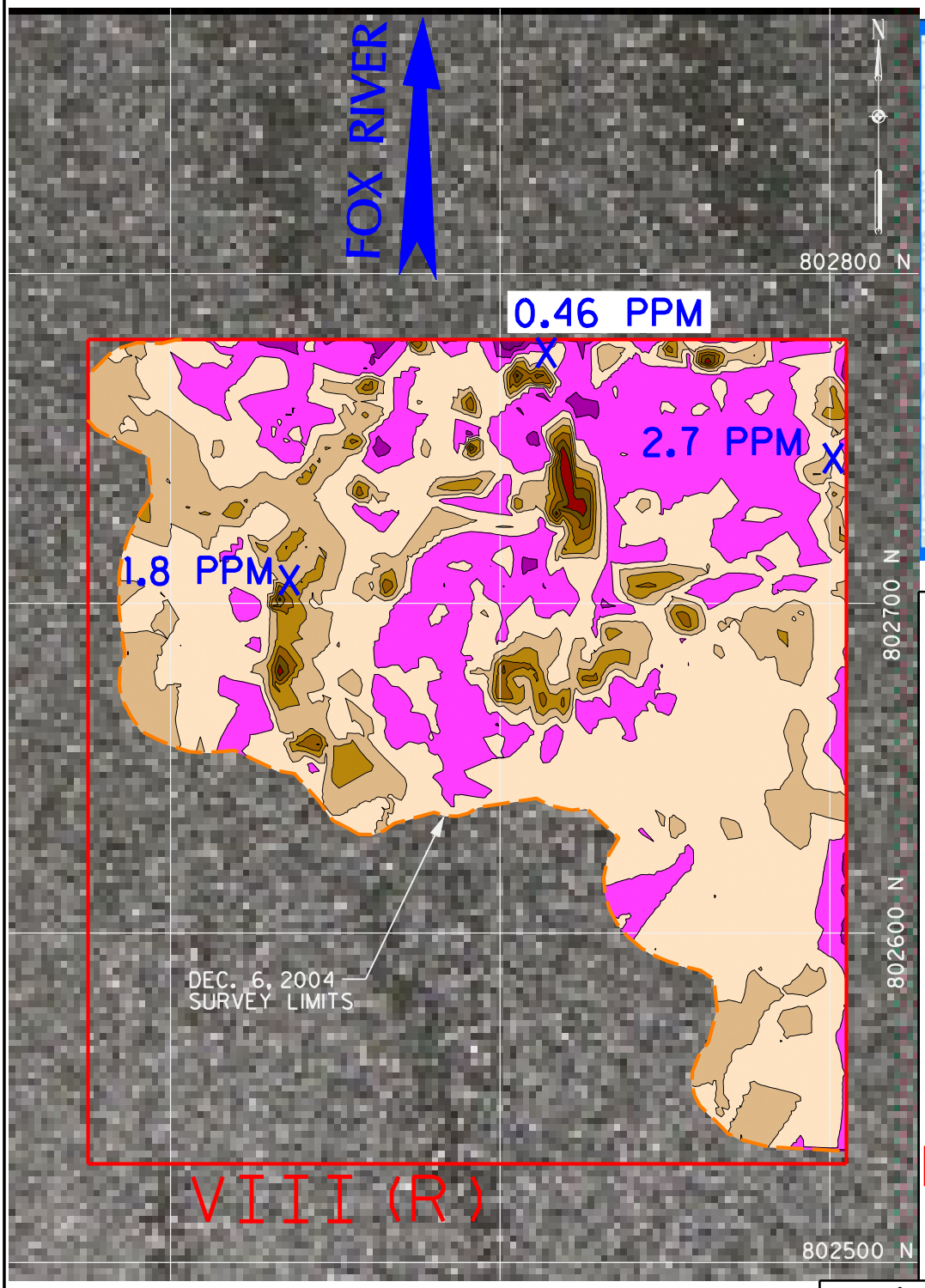

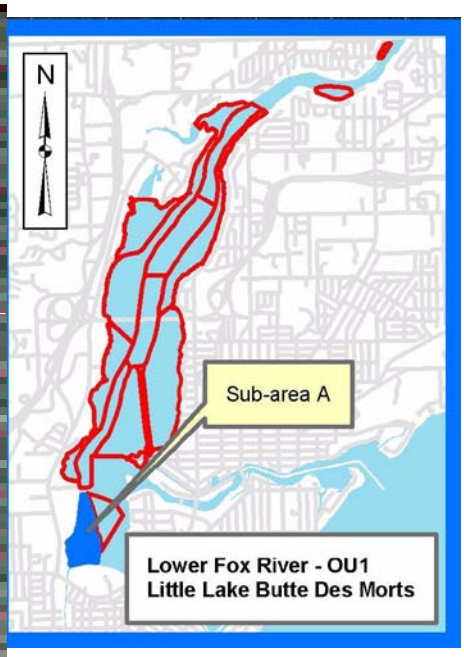

LEGEND

SEDIMENT REMOVAL

- 1.0 - 1.5′ REMAINING ABOVE 1 PPM RAL
- 0.5 - 1.0′ REMAINING ABOVE 1 PPM RAL
- 0.0 - 0.5′ REMAINING ABOVE 1 PPM RAL
- 0.0 - 0.5′ CUT BELOW 1 PPM RAL
- 0.5 - 1.0′ CUT BELOW 1 PPM RAL
- 1.0 - 1.5′ CUT BELOW 1 PPM RAL
- 1.5 - 2.0′ CUT BELOW 1 PPM RAL
- 2.0 - 2.5′ CUT BELOW 1 PPM RAL
- 2.5 - 3.0′ CUT BELOW 1 PPM RAL

VIII (R) 2004 REMOVAL REGION (57,500 SQ. FT./1.32 ACRES)

X PREVIOUSLY ABOVE TARGET ELEVATION (ATE) LOCATIONS WITH NEW SEDIMENT PPM READINGS

0 25′ 50′ 75′ 100′

BAR SCALE

Foth & Van Dyke

NOTES:

1. SEDIMENT ISOPACH CREATED BY USING GMS DERIVED 1 PPM DREDGE CONTOURS VS BRENNAN'S DECEMBER 6, 2004 SURVEY.
2. SEDIMENT REMOVAL VOLUMES OBTAINED USING BRENNAN'S OCTOBER 18 AND DECEMBER 6, 2004 SURVEYS.
3. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE). THE VERTICAL CONTROL IS REFERENCED TO NAVD 88.
4. COLOR ORTHOPHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
5. SUB-AREA A DELINEATION FROM 2003 PRE-DESIGN SAMPLING PLAN.

GW PARTNERS

FIGURE 1

LOWER FOX RIVER
SUB-AREA A - REGION VIII (R)
POST RE-DREDGE SAMPLE RESULTS

Prepared By: Foth & Van Dyke	Date: JANUARY, 2005
Drawn By: JRB2	Checked By: DMR	Scope: 04G007

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