



Gannett Fleming
Celebrating 90 years of Excellence

September 22, 2005
File #34265.003-C

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RECEIVED

SEP 23 2005

ERS DIVISION

Mr. Will Myers
Wisconsin Department of Commerce
Environmental & Regulatory Services Division
Bureau of PECFA
201 W. Washington Ave.
P.O. Box 8044
Madison, WI 53708-8044

Re: Results of Site Investigation and Request for Site Closure
Murphy Oil USA, Inc., Superior
Former Marine Terminal Site
WDNR BRRTS No. 03-16-000320

59000-0450-66 B

Dear Will:

On behalf of Murphy Oil USA, Inc., Gannett Fleming, Inc. is submitting this letter report describing the results of a May 2005 site investigation completed at Murphy's former Marine Terminal site in Superior. Two underground storage tanks (USTs), one to store ship ballast water and the other to store spilled petroleum products, were formerly located at the site. Both USTs were removed in December 1990. Soil confirmation samples collected after the USTs were removed identified the presence of petroleum-impacted soil, as well as the presence of a sheen in the water that infiltrated into both UST basins. The purpose of Gannett Fleming's investigation was to determine the degree and extent of any residual petroleum impacts remaining at the site.

Only one of the seven soil samples collected by Gannett Fleming in May 2005 contained any petroleum-related compound at a concentration above an NR 720 residual contaminant level (RCL). That single sample contained both benzene and diesel range organics (DROs) above NR 720 RCLs; however, the benzene concentration was well below its applicable NR 746 free product indicator and direct-contact concentrations. In addition, a groundwater sample collected from that boring did not have any detectable concentrations of petroleum volatile organic compounds (PVOCs) or polycyclic aromatic hydrocarbons (PAHs), confirming that the residual petroleum-impacted soil has not impacted the groundwater.

The results of the site investigation confirm that there is no threat to human health and the environment from the storage of petroleum products in the two USTs formerly located at Murphy's Marine Terminal site. Based on these results, on behalf of Murphy, we request that the Wisconsin Department of Commerce (Commerce) provide Murphy with a closure letter for this release site. Attachment A contains Commerce's "Case Summary and Close Out Form."



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Because this site is not a high priority site, per NR 746, Commerce has administrative authority for this project. On August 3, 2005, Gannett Fleming sent a letter to the Wisconsin Department of Natural Resources (WDNR) requesting that the project file for this site be transferred to Commerce. The WDNR confirmed the transfer of the file in an August 17, 2005, letter to Liz Lundmark of Murphy.

Background

The Marine Terminal site is located along the south shore of St. Louis Bay at a ship loading slip, approximately 2,000 feet north of Winter Street in the City of Superior. Figure 1 is a site location map. The site is located in the NE 1/4 of the NE 1/4 of Section 16, Township 49 North, Range 14 West of Douglas County.

The site and property adjacent to the site is currently vacant; however, property in this area is currently and has historically been used for industrial purposes. The ship loading slip is immediately west of the site. Approximately 2,200 feet south of the site is a former petroleum terminal that was operated by Amoco. This terminal and other nearby properties associated with the terminal are currently undergoing petroleum contamination remediation (BRRTS Nos. 02-16-000331, 02-16-284811, 02-16-117873, 02-16-297993, 02-16-297979). Amoco has identified the presence of dissolved- and free-phase hydrocarbons in and on the groundwater approximately 300 feet east and 1,100 feet south of Murphy's former Marine Terminal. Figure 2 shows Murphy's Marine Terminal site and some of the monitoring wells and the approximate extent of dissolved- and free-phase contamination associated with the Amoco sites.

Murphy's Marine Terminal site was formerly used as a petroleum product loading facility. An underground pipeline, which originated at Murphy's Superior refinery, transported unleaded and possibly leaded gasoline, No. 1 fuel oil, and No. 2 fuel oil to this site for off-loading into ships. According to Twin Ports Testing's (TPT) March 15, 1991, *Tank Excavation Observation* report addressed to Murphy and the WDNR, two USTs and one aboveground tank were formerly located at the site. The two USTs consisted of an 8,500-gallon steel tank (8 feet by 22 feet), which held ballast water released from ships loading at the slip, and a 1,000-gallon steel tank (3 feet by 14 feet), which was part of the site's spill containment system that was used to contain spilled petroleum products. The aboveground tank separated oil from the ballast water. Figure 3 is a site plan showing the locations of all three tanks.

Removal of USTs (December 1990)

The following section summarizes the information provided by TPT in its March 1991 report and by Itasca Petroleum Tank Testing (Itasca) of Superior in its December 12, 1990, *Tank Removal Report: Murphy West Marine Terminal Dock*. Gannett Fleming obtained copies of these reports



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from WDNR's Superior office during a review of the project files for this site. Itasca's December 12th report includes the Petroleum Product Tank Inventory forms and provides the details of the removal of the two USTs. Please refer to these reports for additional details.

From November 28 through December 4, 1990, Itasca removed the two USTs from the site. On December 3 and 4, 1990, TPT was on site to collect soil confirmation samples and document site conditions as the USTs were being removed. As noted earlier, Figure 3 also shows the former locations of the UST basins.

Based on Itasca's report, the excavations associated with the removal of the 1,000- and 8,500-gallon USTs extended about 5 feet and 10 feet below ground surface (bgs), respectively. Itasca reported that the 8,500-gallon UST was attached to concrete anchors, and the 1,000-gallon UST was encased in concrete. Itasca reported that there was not any underground piping associated with either of these two USTs. TPT did not observe any holes in either of the USTs and noted silty-sand and sand fill in the UST basins and native red clay outside the basins. Water was encountered about 4 feet bgs in the 1,000-gallon UST basin and between 5 to 6 feet bgs in the 8,500-gallon UST basin. Following the removal of the USTs, TPT observed a sheen on top of the water that accumulated in each UST basin.

Following the removal of the USTs, TPT collected soil samples from the UST basins. Figure 3 shows the sample locations. The soil samples were field-screened for the presence of organic vapors using a photo-ionization detector. Table 1 and Figure 3 show the field-screening results. Based on the presence of elevated field-screening concentrations, TPT excavated approximately 36 cubic yards of soil that was adjacent to the former 8,500-gallon UST. The excavated soil was disposed of at the Moccasin Mike Landfill in Superior.

Based on the field-screening results, select soil samples were submitted to a laboratory for analysis of select volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH), Resource Conservation and Recovery Act (RCRA) metals using the Toxicity Characteristic Leaching Procedure (TCLP), and polychlorinated biphenyls (PCBs). Figure 3 also shows the locations of samples that were submitted to the laboratory, and Table 2 lists the analytical results. Except for a relatively low concentration of 1,4-dichlorobenzene in soil sample SS#2 (7.8 milligrams per kilogram), none of the analyzed VOCs were measured above the laboratory's detection limit. The U.S. Environmental Protection Agency reports that 1,4-dichlorobenzene is primarily used as a fumigant for the control of moths, molds, and mildews and as a space deodorant for toilets and refuse containers (<http://www.epa.gov/ttn/atw/hlthef/dich-ben.html>); thus, its presence in soil sample SS#2 is not associated with the USTs formerly located at the site.

Reportable concentrations of TPH were quantified as fuel oil in three of the four soil samples. Figure 3 lists the TPH results for each sample. Three or more of the RCRA metals were



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confirmed in the TCLP extract, with concentrations above the detection limits in each of the four soil samples; however, all concentrations were well below 40 CFR Part 261 maximum allowable toxicity characteristics concentrations. A soil sample for PCB analysis was only collected from the soil stockpile. This sample (SS#5) did not have a detectable concentration of PCBs.

As stated above, Murphy's Marine Terminal is approximately 300 feet from Amoco's site where dissolved- and free-phase petroleum contamination in the shallow aquifer has been confirmed. It is unclear if the petroleum-related impacts identified when the USTs were removed from the Marine Terminal were the result of a past on-site petroleum release or the result of an off-site source. In any case, the concentrations measured during the removal of the USTs were significantly below the concentrations confirmed in monitoring wells installed at the nearby Amoco site.

On February 13, 2004, the WDNR sent a letter to Murphy indicating that the Marine Terminal site was listed as an open site in its records. On March 16, 2004, on behalf of Murphy, Gannett Fleming sent a letter to the WDNR providing the status of several Murphy sites that the WDNR had listed as open; this letter included the Marine Terminal site. As stated in our March 16th letter, Murphy searched its historical records and as of March 16th had not yet located any written documentation related to the Marine Terminal site. In lieu of being able to find information in its records, Murphy instructed Gannett Fleming to review the contents of WDNR's file for this project; on July 28, 2004, we copied the contents of WDNR's Superior office project file.

As described above, soil confirmation samples collected after the USTs were removed in 1990 identified the presence of petroleum-impacted soil, as well as the presence of a sheen in the water that infiltrated into both UST basins. Based on these results, Gannett Fleming prepared a work plan to define the degree and extent of petroleum impacts identified when the USTs were removed in 1990 and sent the work plan to the WDNR on May 6, 2005.

May 2005 Site Investigation

On May 26, 2005, Gannett Fleming conducted the site investigation by collecting and analyzing soil samples from seven Geoprobe borings, GP-1 through GP-7. Figure 3 shows the Geoprobe locations. Soil Essentials of New Glarus, Wisconsin, operated the Geoprobe and collected soil samples from each boring continuously to 8 feet bgs in GP-1 and GP-4 and to 4 feet bgs in the other five borings. All soil samples were collected in a 4-foot-long sampler. Soil samples were collected from 0 to 2 feet bgs in GP-1 and GP-4 through GP-7 and from 2 to 3 feet bgs in GP-2 and GP-3. All soil samples were submitted to U.S. Filter of Rothschild, Wisconsin, for analysis of DRO, gasoline range organics (GRO), PVOs, PAHs, and lead. Attachment B contains the boring logs, and Attachment C contains the chain of custody record and analytical report for the soil samples.



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The Geoprobe borings were sampled as close to the former UST basins as possible; however, because of the presence of standing water and/or uneven terrain, we were unable to collect samples within the former 8,500-gallon UST basin. Fill generally consisting of silty-sand, sand, gravel, and clay was encountered throughout the site. Groundwater was encountered approximately 2 to 3 feet bgs in all seven borings. As stated above, boring logs are included in Attachment B.

Because of the tightness of the shallow aquifer and its inability to yield groundwater in a reasonable amount of time, we were only able to collect groundwater samples from GP-1 (1,000-gallon UST) and GP-4 (8,500-gallon UST). Groundwater samples were collected using a 4-foot-long, stainless steel screen attached to the bottom of the Geoprobe rods. The screen was inserted into the probe hole to intersect the water table; the screened interval was approximately 3 to 7 feet bgs for both probe holes. We purged approximately one liter prior to sampling GP-1, but because of slow groundwater recovery in GP-4, we did not purge any groundwater prior to the collection of samples. The samples were pumped directly from the Geoprobe screen into appropriate laboratory-supplied containers through tubing attached to a truck-mounted peristaltic pump. New tubing was used in each borehole. The samples were placed in an iced cooler and submitted to U.S. Filter for GRO and PVOC analyses, and a sample from GP-1 was submitted for PAH analysis. Because of the low yield of the shallow aquifer, we were unable to collect a sufficient volume of groundwater from GP-4 for PAH analysis. Attachment C contains the chain of custody record and analytical report for the groundwater samples

All non-disposable equipment was washed with a solution of detergent and potable water and rinsed with potable water following the collection of the samples from each borehole.

Following the collection of the groundwater samples, the boreholes were abandoned according to NR 141 requirements. Boring abandonment forms are included in Attachment B.

Investigation Results

Table 3 lists the analytical results of the soil samples collected from GP-1 through GP-7. Geoprobos GP-1 through GP-3 were advanced where the 1,000-gallon spill containment UST was formerly located. GP-4 through GP-7 were advanced where the 8,500-gallon ballast water tank was formerly located. Except for DRO and benzene in the soil samples collected from 0 to 2 feet bgs in GP-1, the concentrations of all parameters analyzed were less than applicable NR 720 and NR 746 RCLs. Benzene and DRO concentrations in the samples collected from GP-1 were above their applicable NR 720 RCLs, but were well below applicable NR 746 direct contact and free product indicator concentrations. As shown in Figure 3, GP-1 was advanced within the former basin of the 1,000-gallon UST.



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GP-3 was advanced near the location where the samples with the most elevated field-screening and TPH results were collected when the 1,000-gallon UST was removed in 1990. The analytical results for the samples collected from GP-3 by Gannett Fleming in May 2005 would suggest that there is no residual petroleum-contaminated soil in this area that exceeds applicable WDNR standards.

Table 4 lists the groundwater analytical results of the samples collected from GP-1 and GP-4. Neither sample contained any petroleum-related compound above the laboratory's method of detection limits, and the detection limits were well below the applicable NR 140 preventative action limits.

Based on the results of our site investigation, we were not able to determine the direction of groundwater flow, but based on the proximity of St. Louis Bay to the site, we believe the local groundwater flow direction is to the west toward St. Louis Bay.

Discussion of Results

As stated above, on May 26, 2005, Gannett Fleming personnel collected soil samples from seven Geoprobe borings at Murphy's Marine Terminal site. In addition, groundwater samples were collected from two of the Geoprobe borings. The borings were advanced as close as possible to the former locations of a 1,000-gallon UST and an 8,500-gallon UST that formerly contained petroleum products and ballast water, respectively. Soil samples collected when the USTs were removed in 1990 identified soil with slight petroleum impacts.

Based on the results of our May 26th investigation, except for one soil sample, all soil and groundwater samples were below applicable promulgated WDNR standards. A soil sample collected from 0 to 2 feet bgs at GP-1 had benzene and DRO concentrations above the applicable NR 720 RCLs, but well below applicable NR 746 direct contact and free product indicator concentrations. In addition, a groundwater sample collected at GP-1 did not contain any detectable concentrations of petroleum-related compounds, including benzene (detection limit of 0.31 micrograms per liter) and PAHs. Per NR 720, RCLs are based on the protection of groundwater. Even though the soil sample collected at GP-1 had a concentration of benzene above its generic NR 720 RCL, the groundwater sample collected from GP-1 confirms that this residual soil concentration has not resulted in an exceedance of the benzene NR 140 PAL. Groundwater in this area has not been impacted. Since there is not any NR 140 standard for DRO, the PAH compounds encompass the major constituents of concern in the DRO range of compounds. Like benzene, since all PAH compounds in the groundwater sample collected from GP-1 were below their respective detection limits, the residual DRO concentration in the soil has not affected groundwater quality in this area.



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Request for Site Closure

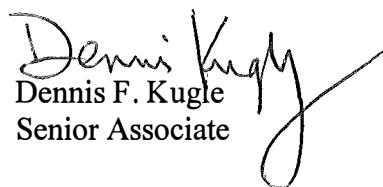
Although benzene and DRO concentrations above applicable generic NR 720 RCLs were present in one of the seven soil samples collected during the May 2005 investigation, the groundwater at the site has not been impacted. Based on the investigation results, on behalf of Murphy Oil USA, Inc., we request that the Wisconsin Department of Commerce issue an unconditional case closure letter for this site.

Please let us know if you have any questions or comments regarding this letter.

Sincerely,

GANNETT FLEMING, INC.

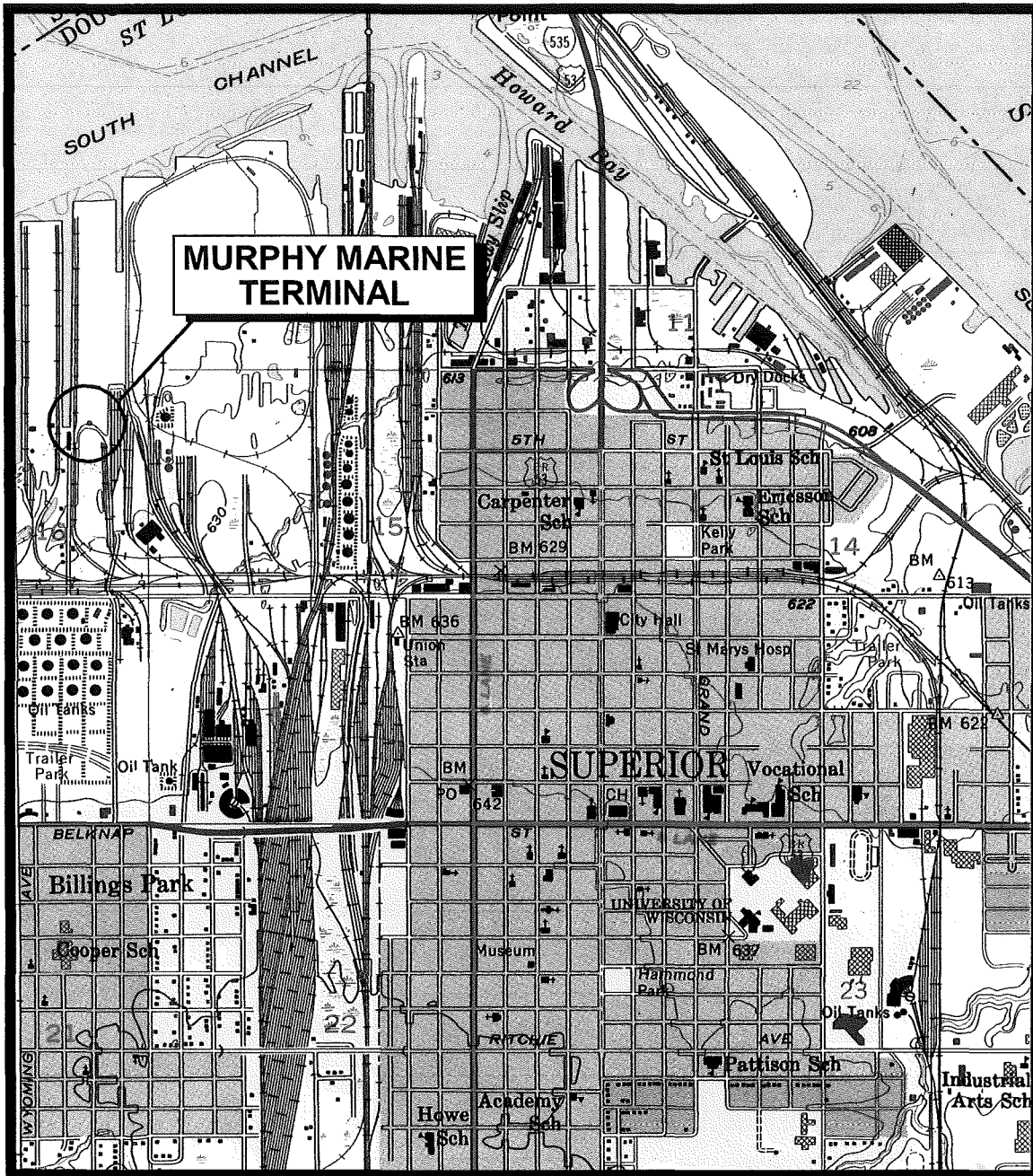

Jeffrey J. King, P.G.
Project Hydrogeologist


Dennis F. Kugle
Senior Associate

JJK/jec
Enc.

cc: Corey Mead (Murphy Oil-Superior)
Liz Lundmark (Murphy Oil-Superior)
Lee Vail (Murphy Oil-New Orleans)



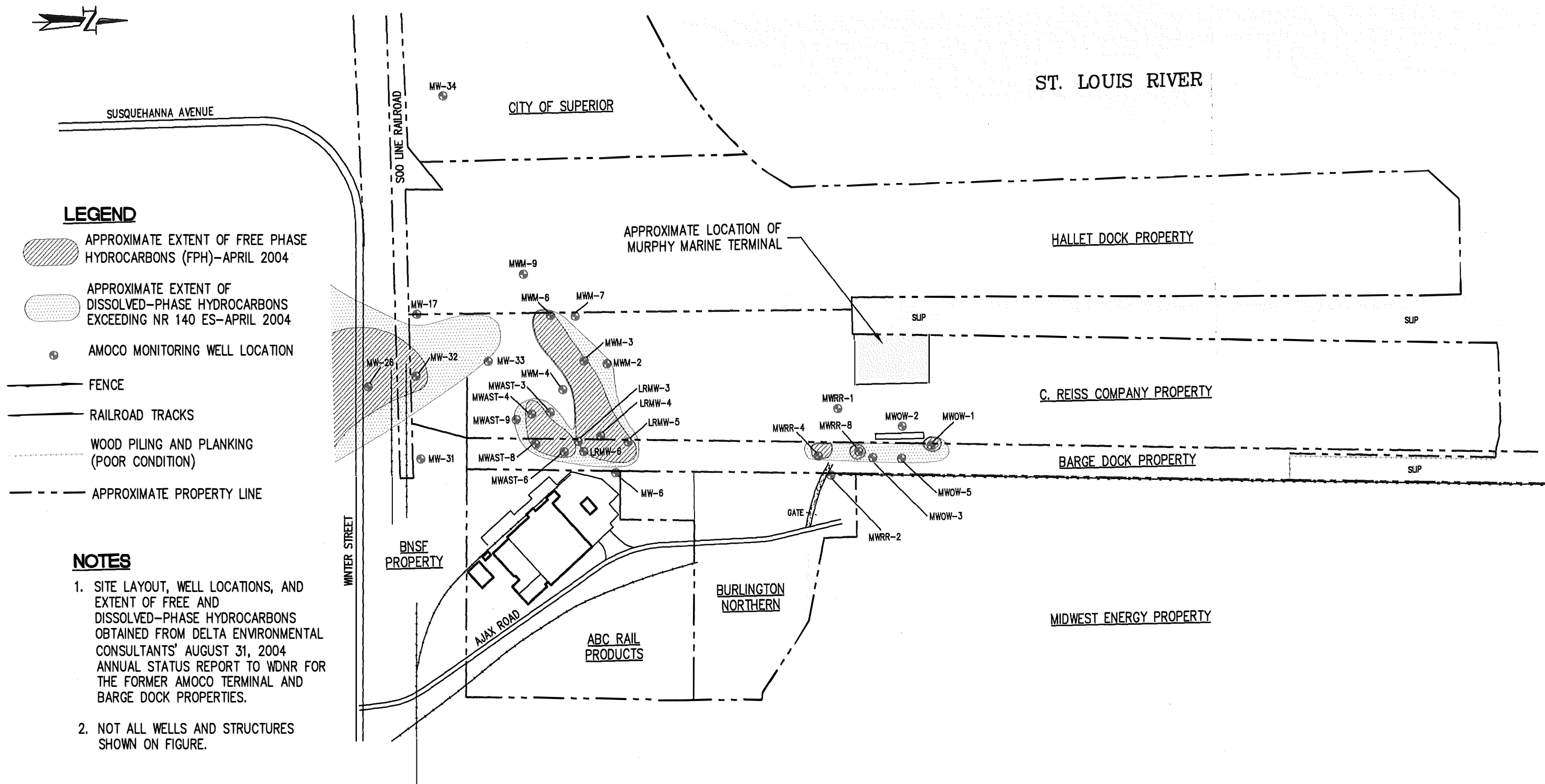


SCALE: 1 INCH = 2000 FEET
CONTOUR INTERVAL = 10 FEET

7.5 MIN TOPOGRAPHIC MAP
SUPERIOR, WISCONSIN
1954
PHOTOREVISED 1983



LOCATION MAP
MURPHY MARINE TERMINAL
MURPHY OIL USA, INC.
SUPERIOR, WISCONSIN

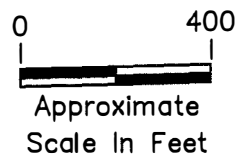


LEGEND

- APPROXIMATE EXTENT OF FREE PHASE HYDROCARBONS (FPH)-APRIL 2004
- APPROXIMATE EXTENT OF DISSOLVED-PHASE HYDROCARBONS EXCEEDING NR 140 ES-APRIL 2004
- AMOCO MONITORING WELL LOCATION
- FENCE
- RAILROAD TRACKS
- WOOD PILING AND PLANKING (POOR CONDITION)
- APPROXIMATE PROPERTY LINE

NOTES

1. SITE LAYOUT, WELL LOCATIONS, AND EXTENT OF FREE AND DISSOLVED-PHASE HYDROCARBONS OBTAINED FROM DELTA ENVIRONMENTAL CONSULTANTS' AUGUST 31, 2004 ANNUAL STATUS REPORT TO WDNR FOR THE FORMER AMOCO TERMINAL AND BARGE DOCK PROPERTIES.
2. NOT ALL WELLS AND STRUCTURES SHOWN ON FIGURE.



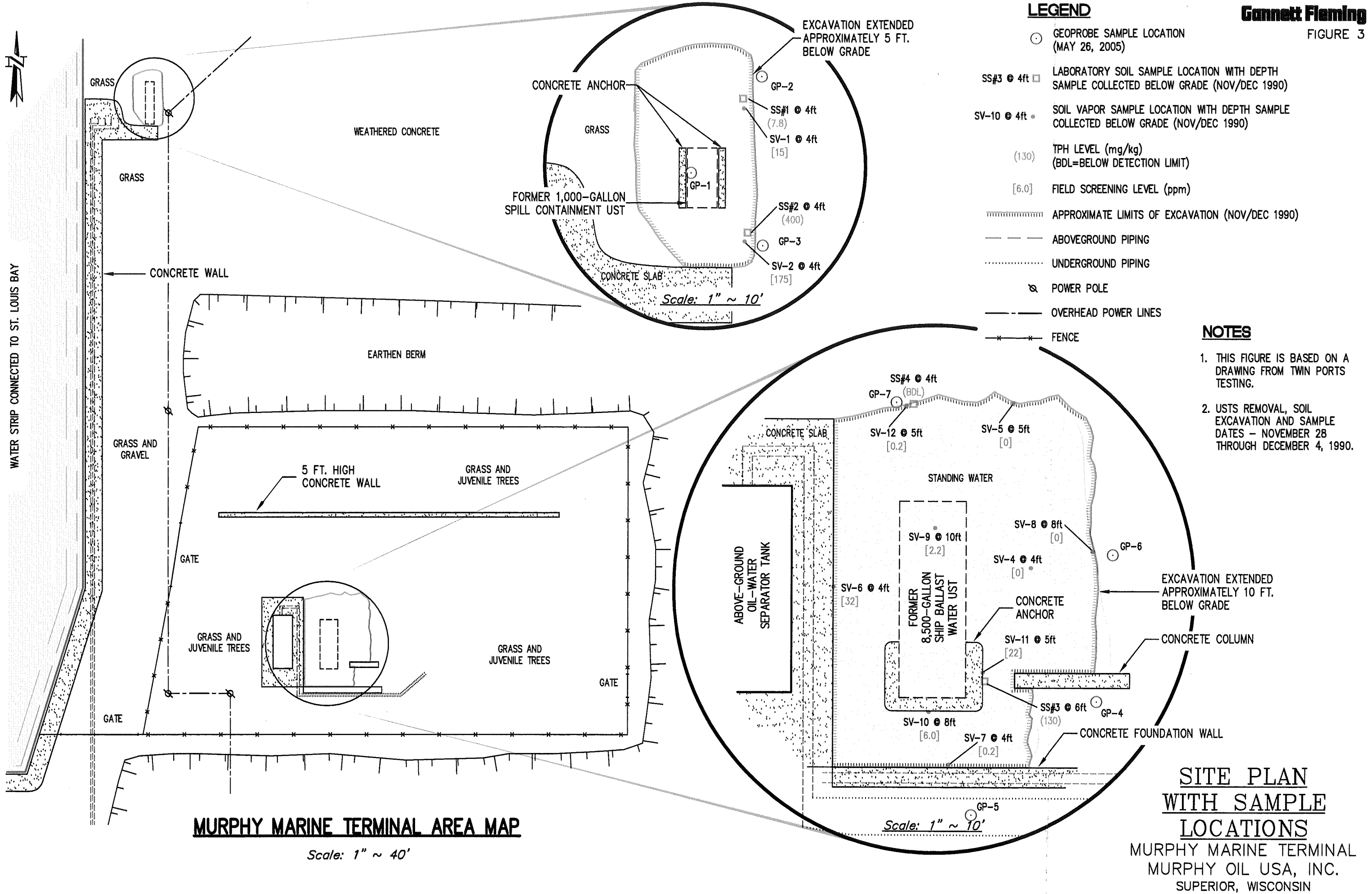
**PROPERTY LAYOUT
ADJACENT TO MARINE
TERMINAL SITE**
MURPHY OIL USA, INC
SUPERIOR, WISCONSIN

LEGEND

- GEOPROBE SAMPLE LOCATION (MAY 26, 2005)
- SS#3 @ 4ft □ LABORATORY SOIL SAMPLE LOCATION WITH DEPTH SAMPLE COLLECTED BELOW GRADE (NOV/DEC 1990)
- SV-10 @ 4ft ● SOIL VAPOR SAMPLE LOCATION WITH DEPTH SAMPLE COLLECTED BELOW GRADE (NOV/DEC 1990)
- (130) TPH LEVEL (mg/kg) (BDL=BELOW DETECTION LIMIT)
- [6.0] FIELD SCREENING LEVEL (ppm)
- APPROXIMATE LIMITS OF EXCAVATION (NOV/DEC 1990)
- - - - - ABOVEGROUND PIPING
- UNDERGROUND PIPING
- ⊗ POWER POLE
- - - - - OVERHEAD POWER LINES
- ××××× FENCE

NOTES

1. THIS FIGURE IS BASED ON A DRAWING FROM TWIN PORTS TESTING.
2. USTS REMOVAL, SOIL EXCAVATION AND SAMPLE DATES - NOVEMBER 28 THROUGH DECEMBER 4, 1990.



MURPHY OIL USA, INC.
SUPERIOR, WISCONSIN

TABLE 1

ORGANIC VAPOR HEADSPACE CONCENTRATIONS FOR SOIL SAMPLES COLLECTED
DURING THE 1990 REMOVAL OF THE USTs AT THE MARINE TERMINAL SITE

Sample I.D.	Sample Depth (ft bgs)	Organic Vapor Headspace Concentration (ppm)	Sample Soil Type
SV-1	4	15	Silty sand
SV-2	4	175	Silty sand
SV-3	Soil stockpile A	2.5	Silty sand
SV-4	4	0	Clay
SV-5	5	0	Clay
SV-6	4	32	Clay
SV-7	4	0.2	Silty sand
SV-8	8	0	Sand
SV-9	10	2.2	Clay
SV-10	8	6.0	Sand
SV-11	5	22	Silty sand with gravel
SV-12	5	0.2	Clay
SV-13	Soil stockpile B	19.4	Silty sand
SV-14	Soil stockpile B	3.5	Silty sand
SV-15	Soil stockpile B	6.5	Silty sand

NOTES:

Table based on information in Twin Ports Testing March 15, 1991, "Tank Excavation Observation" report to Murphy Oil USA and the Wisconsin Department of Natural Resources.

Soil samples collected and field screened by Twin Ports Testing on December 3 and 4, 1990.

Samples field screened using an Hnu Model PI-101 photo-ionization detector.

Stockpile A was soil that formerly covered the 1,000 underground storage tank.

Stockpile B was soil that formerly covered the 8,500 underground storage tank.

ft bgs = Feet below ground surface.

ppm = Parts per million based on isobutylene.

MURPHY OIL USA, INC.
SUPERIOR, WISCONSIN

TABLE 2

SOIL ANALYTICAL RESULTS FOR SAMPLES COLLECTED AFTER THE 1990 REMOVAL
OF THE USTs (mg/kg) AT THE MARINE TERMINAL SITE

Parameter	Sample I.D. and Depth (bgs)					NR 720 RCL	40 CFR Part 261 Max. Toxicity Concentration (mg/l)
	SS#1 4 ft.	SS#2 4 ft.	SS#3 6 ft.	SS#4 4 ft.	SS#5 Stockpile B		
TPH	7.8	400	130	<2.0	<2.0	NS	NS
Benzene	<0.25	<5	<0.25	<0.25	<0.25	0.0055	NS
Ethylbenzene	<0.25	<13	<0.25	<0.25	<0.25	2.9	NS
Toluene	<0.25	<5	<0.25	<0.25	<0.25	1.5	NS
1,4-Dichlorobenzene	<0.25	7.8	<0.25	<0.25	<0.25	NS	NS
Arsenic (mg/l) ⁽¹⁾	<0.007	<0.007	<0.007	<0.007	<0.007	NS	5.0
Barium (mg/l) ⁽¹⁾	0.3	0.4	0.6	1.0	0.5	NS	100.0
Cadmium (mg/l) ⁽¹⁾	0.02	0.02	0.03	0.03	0.03	NS	1.0
Total Chromium (mg/l) ⁽¹⁾	<0.05	<0.05	<0.05	<0.05	<0.05	NS	5.0
Lead (mg/l) ⁽¹⁾	0.1	0.1	0.1	0.1	0.1	NS	5.0
Mercury (mg/l) ⁽¹⁾	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	NS	0.2
Selenium (mg/l) ⁽¹⁾	0.008	<0.005	0.006	0.012	<0.005	NS	1.0
Silver (mg/l) ⁽¹⁾	<0.02	<0.02	<0.02	<0.02	<0.02	NS	5.0
PCBs	NA	NA	NA	NA	<1.0	NS	

NOTES:

Table based on information provided by Twin Ports Testing in its March 15, 1991, "Tank Excavation Observation" report to Murphy Oil USA and the Wisconsin Department of Natural Resources.

Soil samples collected by Twin Ports Testing on December 3 and 4, 1990.

Unless noted otherwise, sample results reported in units of milligrams per kilogram (mg/kg).

Soil samples analyzed for volatile organic compounds, other than benzene, ethylbenzene and toluene, only detected compounds shown in table.

BDL = Below detection limit.
 NS = No standard.
 NA = Not analyzed.
 bgs = Below ground surface.
 TPH = Total petroleum hydrocarbons

FOOTNOTE:

(1) Concentration measured in TCLP extract.

TABLE 3

SOIL ANALYTICAL RESULTS OF SAMPLES COLLECTED DURING MAY 2005 SITE INVESTIGATION
AT THE MARINE TERMINAL SITE

Parameter	Sample I.D., Sample Depth (ft), and Date Collected							NR 720 RCL	NR 746 Table 1 Free Product Indicator Concentration	NR 746 Table 2 Direct Contact Concentration
	GP-1	GP-2	GP-3	GP-4	GP-5	GP-6	GP-7			
	0-2 05/26/05	2-3 05/26/05	2-3 05/26/05	0-2 05/26/05	0-2 05/26/05	0-2 05/26/05	0-2 05/26/05			
Lead	14.3	3.57	2.04	8.54	11.5	6.65	10.50	500*	NS	NS
DRO	467	<5.97	<5.85	97.7	43.8	<6.67	15.1	250	NS	NS
GRO	8.22	<5.97	5.85	<5.71	<5.90	<6.67	<6.46	250	NS	NS
1,2,4-Trimethylbenzene	0.439	<0.025	<0.025	<0.025	0.0325	<0.025	<0.025	NS	83	83
1,3,5-Trimethylbenzene	0.16	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NS	11	11
Benzene	0.35	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0055	8.5	1.1
Ethylbenzene	0.268	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	2.9	4.6	4.6
MTBE	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NS	NS	NS
Toluene	0.886	<0.025	<0.025	<0.025	0.0408	<0.025	<0.025	1.5	38	38
Total Xylenes	1.444	<0.050	<0.050	<0.0568	0.0896	<0.050	<0.050	4.1	42	42
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthalene	<0.0541	<0.00562	<0.0055	0.559	<0.0554	<0.00627	11	NS	NS	NS
Acenaphthylene	<0.0759	<0.00789	<0.00772	<0.151	<0.0778	<0.0088	<1.71	NS	NS	NS
Anthracene	<0.0242	<0.00251	<0.00246	1.23	1.71	<0.0028	29.3	NS	NS	NS
Benzo(a)anthracene	0.108	<0.0049	<0.0048	1.36	2.64	<0.00547	16.5	NS	NS	NS
Benzo(a)pyrene	0.137	<0.00275	<0.00269	0.863	1.86	0.00579 J	7.24	NS	NS	NS
Benzo(b)fluoranthene	0.227	<0.00251	<0.00246	0.971	2.42	0.00345 J	8.88	NS	NS	NS
Benzo(k)fluoranthene	0.0792	<0.00346	<0.00339	0.473	1.02	<0.00387	3.42	NS	NS	NS
Benzo(ghi)perylene	0.234	<0.00251	<0.00246	0.773	1.54	0.0232	3.53	NS	NS	NS
Chrysene	0.106	<0.00275	<0.00269	1.04	2.03	0.00399 J	10.7	NS	NS	NS
Dibenzo(a,h)anthracene	<0.0161	<0.00167	<0.00164	<0.032	<0.0165	<0.00187	<0.362	NS	NS	NS
Fluoranthene	0.856	0.0106	<0.00257	6.07	9.98	0.0066	84.1	NS	NS	NS
Fluorene	<0.023	<0.00239	<0.00234	0.578	<0.0236	<0.00267	12.9	NS	NS	NS
Indeno(1,2,3-cd)pyrene	0.15	<0.00191	<0.00187	0.434	1.25	0.0074	2.65	NS	NS	NS
1-Methylnaphthalene	0.203	<0.00418	<0.00409	<0.08	<0.0413	<0.00467	<0.904	NS	NS	NS
2-Methylnaphthalene	0.305	<0.0049	<0.0048	<0.0937	<0.0483	<0.00547	<1.06	NS	NS	NS
Naphthalene	0.386	<0.00191	<0.00187	<0.0366	<0.0189	<0.00213	3.98	NS	2,700	2,700
Phenanthrene	0.482	0.0062 J	<0.00269	4.59	5.64	0.004 J	74.5	NS	NS	NS
Pyrene	<0.0242	<0.00251	<0.00246	5.13	4.09	0.00625 J	77.0	NS	NS	NS

NOTES:

Samples collected by Gannett Fleming using a Geoprobe.

Results reported in units of milligrams per kilogram (mg/kg).

Results in bold exceed applicable NR 720 residual contaminant level (RCL).

* = NR 720 Table 2 industrial direct contact Residual Contaminant Level (non-industrial direct contact standard is 50 mg/kg).

J = Estimated concentration between laboratory's level of detection and level of quantitation.

NS = No standard.

MURPHY OIL USA, INC.
SUPERIOR, WISCONSIN

TABLE 4

GROUNDWATER ANALYTICAL RESULTS FOR SAMPLES COLLECTED DURING
MAY 2005 SITE INVESTIGATION AT THE MARINE TERMINAL SITE

Parameter	Sample I.D. and Date Collected		NR 140 PAL	NR 140 ES
	GP-1 05/26/05	GP-4 05/26/05		
GRO	<50.0	<50.0	NS	NS
Total Trimethylbenzenes	<0.4	<0.4	96	480
Benzene	<0.31	<0.31	0.5	5
Ethylbenzene	<0.5	<0.5	140	700
MTBE	<0.3	<0.3	12	60
Toluene	<0.3	<0.3	200	1000
Total Xylenes	<0.92	<0.92	1,000	10,000
Polycyclic Aromatic Hydrocarbons (PAHs)				
Acenaphthalene	<0.06	NA	NS	NS
Acenaphthylene	<0.06	NA	NS	NS
Anthracene	<0.05	NA	600	3,000
Benzo(a)anthracene	<0.04	NA	NS	NS
Benzo(a)pyrene	<0.017	NA	0.02	0.2
Benzo(b)fluoranthene	<0.02	NA	0.02	0.2
Benzo(k)fluoranthene	<0.04	NA	NS	NS
Benzo(ghi)perylene	<0.05	NA	NS	NS
Chrysene	<0.02	NA	0.02	0.2
Dibenzo(a,h)anthracene	<0.06	NA	NS	NS
Fluoranthene	<0.06	NA	80	400
Fluorene	<0.12	NA	80	400
Indeno(1,2,3-cd)pyrene	<0.05	NA	NS	NS
1-Methylnaphthalene	<0.08	NA	NS	NS
2-Methylnaphthalene	<0.11	NA	NS	NS
Naphthalene	<0.1	<0.8	8	40
Phenanthrene	<0.08	NA	NS	NS
Pyrene	<0.09	NA	50	250

NOTES:

Samples collected by Gannett Fleming using a Geoprobe.
Results reported in units of micrograms per liter.

ATTACHMENT A

COMMERCE'S "CASE SUMMARY AND CLOSE OUT FORM"



Wisconsin Department of Commerce
Environmental and Regulatory Services Division

Bureau of PECFA
Site Review Section

CASE SUMMARY AND CLOSE OUT FORM

Personal information you provide may be used for secondary purposes [Privacy Law, s. 15.04 (1)(m)]

A. Commerce Number:

N O N E . A S S I . G N . E D

WDNR BRTS Number:

0 3 - 1 6 . 0 0 0 3 2 0

Date Received
(office use only)

B. Site Name, Address, City, and Zip Code

Murphy Oil USA, Inc.
NE1/4 of NE1/4 of Section 16, T49N, R14W
Superior, WI 54880

F. Check all that apply:

- Non petroleum contamination present on site.
- Free Product present at 0.01 feet in thickness or more during multiple measurements.
- Potable well contaminant(s) > PAL per ch. NR 140.
- An enforcement standard is exceeded within 1,000 feet of a municipal well as defined in s. 196.01 (5a) or within 100 feet of any other well used to provide water for human consumption.
- An enforcement standard is exceeded in bedrock

C. Responsible Party or Owner Name, Address, City, State, Zip Code, and Phone Number

Murphy Oil USA, Inc.
2407 Stinson Avenue
Superior, WI 54880
(715) 398-3533

Responsible Party Signature:

Elizabeth Jundt

Date:

09/15/05

D. Consulting Firm, Consultant Name, Address, City, State, Zip Code, and Phone Number

Gannett Fleming, Inc.
8025 Excelsior Drive
Madison, WI 53717 (608) 836-1500

I certify by my signature that I am the environmental consultant on this site, that I have reviewed all the environmental information relating to the remediation at this site, that the information contained in this form and following correspondence is true and accurate, and that it is my professional opinion that this site meets all regulatory requirements for closure. (Must be signed by a professional listed below that is currently licensed by the Department of Regulation and Licensing)

Consultant Signature:

Jeffrey J. King

Date:

09/19/05

Date Copy Of Completed Form Sent To RP

09/08/05

(Check the one that applies):

- Professional Engineer _____ License # _____
- Professional Geologist 1195-03 License # _____
- Hydrologist _____ License # _____
- Soil Scientist _____ License # _____



E. Other Interested Parties Name, Address, City, State, Zip Code, And Phone Number (Have Additional Sheets If Necessary)

Wisconsin Department of Commerce Case Summary and Close Out Form
Page 2 of 2

G. Receptors

List All Potential receptors:

St. Louis Bay

H. Soil Information

Soil type(s): silty sand & clay Maximum depth of contamination: 4 ft

Type of bedrock: Precambrian sandstone Depth to bedrock: About 400 ft

Are any NR 720 generic and/or SSRCL exceedance(s) present? Yes No

If yes, attach complete separate soil GIS package See closure request for reason GIS

Comm 46 Table 1 exceedance(s) present? Yes No Soil registry is not necessary

Comm 46 Table 2 exceedance(s) present? Yes No

Was soil excavated? Yes No Quantity (tons): 50.0 Disposal method: landfill

Disposal documentation included: Yes No If No, explain: sent to COMM by WDNR - file transfer

Does pathway to closure include soil performance standard (SPS)? Yes No

Type: Cap Soil Building Other (specify) _____

I. Groundwater Information (if applicable - if not applicable, provide estimated depth To GW)

Brief description of remedial action taken: None required

Depth(s) to groundwater/flow direction(s): 2-3 ft / west # of sample rounds: 1

of NR 141 monitoring wells sampled: None installed

of temporary groundwater sampling points sampled: 2 # Of recovery sumps sampled: None installed

Potable wells within 1200 feet of site? Yes No Have they been sampled? Yes No

of municipal wells sampled: _____

NR 140 preventive action limit currently exceeded? Yes No

NR 140 enforcement standard currently exceeded? Yes No

If yes, attach complete separate GW GIS package.

Maximum concentration of MTBE detected: ND ppb

Measurable free product detected? Yes No Last date detected: _____

J. Proposed Institutional Controls (Check all that apply)

Unrestricted

Deed restriction

Type of restriction(s) proposed: _____

DNR GIS Registry of Closed Sites with residual GW contamination > NR 140 ESs

If checked, has the GW GIS fee been paid to DNR Yes No

Is off-site/source property groundwater contamination present? Yes No If yes, provide street

addresses below for each property (attach additional pages if necessary) and identify on figures.

DNR GIS Registry of Closed Sites with residual Soil contamination > NR 720 RCLs

If checked, has the Soil GIS fee been paid to DNR Yes No

Is off-site/source property soil contamination present? Yes No If yes, provide street addresses below

for each property (attach additional pages if necessary) and identify on figures.

Property #1

Soil Ground Water

Street Address: _____

City, State Zip Code: _____

Property #2

Soil Ground Water

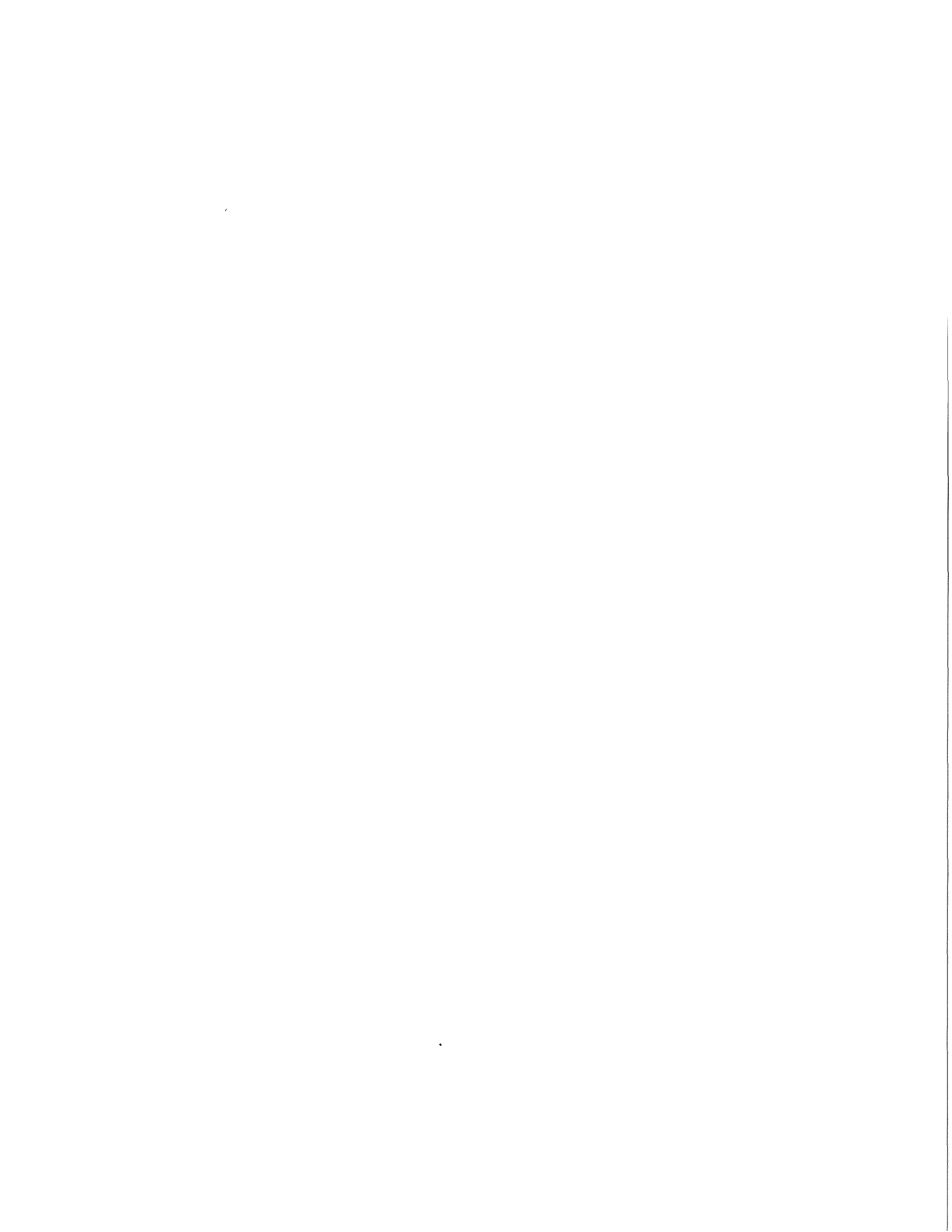
Street Address: _____

City, State Zip Code: _____

ATTACHMENT B

BORING LOGS AND ABANDONMENT FORMS





Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment [x] Other

Facility/Project Name Murphy Oil - Marine Terminal			License/Permit/Monitoring Number		Boring Number GP-1	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Dave Last Name: Paulson			Date Drilling Started 05 / 26 / 2005 m m / d d / y y y y		Date Drilling Completed 05 / 26 / 2005 m m / d d / y y y y	
Firm: Soil Essentials			Drilling Method Geoprobe			
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
					Borehole Diameter 2 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Lat 0 ' "		Local Grid Location	
State Plane N, E			0 ' "		<input type="checkbox"/> N <input type="checkbox"/> E	
NE 1/4 of NE 1/4 of Section 16, T 49 N, R 14 W			Long		<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County DOUGLAS	County Code 16	Civil Town/City/ or Village City of Superior		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	36		0.0 - 0.1	Black topsoil and grass	TO FILL									
			0.1 - 4.0	Brown-black silty sand FILL with little gravel, wet at 2 feet										
2	24		4.0 - 8.0	Same as above	FILL									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Gannett Fleming, Inc. - Madison, WI
---------------	---

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment [x] Other

Facility/Project Name Murphy Oil - Marine Terminal		License/Permit/Monitoring Number		Boring Number GP-2	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Dave Last Name: Paulson Firm: Soil Essentials			Date Drilling Started 05 / 26 / 2005 m m / d d / y y y y	Date Drilling Completed 05 / 26 / 2005 m m / d d / y y y y	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter 2 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane _____ N. _____ E			Lat _____ "	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NE 1/4 of NE 1/4 of Section 16, T 49 N, R 14 W			Long _____ "		
Facility ID	County DOUGLAS	County Code 16	Civil Town/City/ or Village City of Superior		

Sample Number and Type	Length An. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	36		0.0 - 0.1	Black topsoil and grass	TO									
			0.1 - 2.0	Black sand-sized coal fragments, FILL	FILL									
			2.0 - 4.0	Brown fine to medium sand, FILL, wet at 3 feet	FILL									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Gannett Fleming, Inc. - Madison, WI
--	---

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Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment [x] Other

Facility/Project Name Murphy Oil - Marine Terminal			License/Permit/Monitoring Number		Boring Number GP-3			
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Dave Last Name: Paulson Firm: Soil Essentials			Date Drilling Started 05 / 26 / 2005 m m d d y y y y		Date Drilling Completed 05 / 26 / 2005 m m d d y y y y			
WI Unique Well No.		DNR Well ID No.		Well Name		Drilling Method Geoprobe		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E			Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 2 inches	
NE 1/4 of NE 1/4 of Section 16, T 49 N, R 14 W			Lat 0 ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		Long 0 ' "	
Facility ID		County DOUGLAS		County Code 16		Civil Town/City/ or Village City of Superior		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	36		0.0 - 0.1	Black topsoil and grass	TO									
			0.1 - 2.0	Black sand-sized coal fragments, FILL	FILL									
			2.0 - 4.0	Brown fine to medium sand, FILL, wet at 3 feet	FILL									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *[Signature]* Firm: Gannett Fleming, Inc. - Madison, WI

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment [x] Other

Page 1 of 1

Facility/Project Name Murphy Oil - Marine Terminal			License/Permit/Monitoring Number		Boring Number GP-4			
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Dave Last Name: Paulson Firm: Soil Essentials			Date Drilling Started 05 / 26 / 2005 m m / d d / y y y y		Date Drilling Completed 05 / 26 / 2005 m m / d d / y y y y			
WI Unique Well No.		DNR Well ID No.		Well Name		Drilling Method Geoprobe		
			Final Static Water Level ____ Feet MSL		Surface Elevation ____ Feet MSL		Borehole Diameter 2 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location, MI State Plane _____ N, _____ E				Lat _____ " _____ "		Local Grid Location		
NE 1/4 of NE 1/4 of Section 16, T 49 N, R 14 W				Long _____ " _____ "		Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID		County DOUGLAS		County Code 16		Civil Town/City/ or Village City of Superior		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	18		0.0 - 4.0	Black-brown silty sand with some clay and gravel, FILL, wet at 1.5 feet	FILL									
2			4.0 - 8.0	No recovery										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Gannett Fleming, Inc. - Madison, WI
---------------	---

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment [x] Other

Page 1 of 1

Facility/Project Name Murphy Oil - Marine Terminal			License/Permit/Monitoring Number		Boring Number GP-5	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Dave Last Name: Paulson Firm: Soil Essentials			Date Drilling Started 05 / 26 / 2005 m m d d y y y y		Date Drilling Completed 05 / 26 / 2005 m m d d y y y y	
WI Unique Well No.		DNR Well ID No.	Well Name	Final Static Water Level ____ Feet MSL		Surface Elevation ____ Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane _____ N, _____ E			Lat _____ " _____ "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet <input type="checkbox"/> W	
NE 1/4 of NE 1/4 of Section 16		T 49 N, R 14 W		Facility ID _____ County DOUGLAS County Code 16 Civil Town/City/ or Village City of Superior		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	24		0.0 - 4.0	Black-brown silty sand with little clay, gravel and brick fragments, FILL, wet at 2 feet	FILL									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Firm Gannett Fleming, Inc. - Madison, WI

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

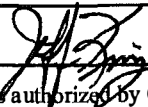
Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment [x] Other

Page 1 of 1

Facility/Project Name Murphy Oil - Marine Terminal			License/Permit/Monitoring Number		Boring Number GP-6	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Dave Last Name: Paulson Firm: Soil Essentials			Date Drilling Started 05 / 26 / 2005 m m d d / y y y y		Date Drilling Completed 05 / 26 / 2005 m m d d / y y y y	
WI Unique Well No.		DNR Well ID No.		Well Name		Drilling Method Geoprobe
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane _____ N, _____ E			Final Static Water Level ____ Feet MSL		Surface Elevation ____ Feet MSL	
Local Grid Location NE 1/4 of NE 1/4 of Section 16, T 49 N, R 14 W			Lat 0 ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W	
Facility ID		County DOUGLAS		County Code 16		Civil Town/City/ or Village City of Superior

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	40		0.0 - 0.5 0.5 - 4.0	Red-brown gravel and clay Red-brown CLAY, moist to wet	FILL CL									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm Gannett Fleming, Inc. - Madison, WI

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment [x] Other

Facility/Project Name Murphy Oil - Marine Terminal			License/Permit/Monitoring Number		Boring Number GP-7			
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Dave Last Name: Paulson Firm: Soil Essentials			Date Drilling Started 05 / 26 / 2005 m m / d d / y y y y		Date Drilling Completed 05 / 26 / 2005 m m / d d / y y y y			
WI Unique Well No.		DNR Well ID No.		Well Name		Drilling Method Geoprobe		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane _____ N, _____ E			Final Static Water Level ____ Feet MSL		Surface Elevation ____ Feet MSL		Borehole Diameter 2 inches	
NE 1/4 of NE 1/4 of Section 16, T 49 N, R 14 W			Lat 0 ' "		Local Grid Location ____ Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		Long 0 ' "	
Facility ID		County DOUGLAS		County Code 16		Civil Town/City/ or Village City of Superior		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	36		0.0 - 0.5 0.5 - 4.0	Red-brown gravel and clay. FILL Red-brown CLAY, moist to wet	FILL CL									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *Jeff King* Firm: Gannett Fleming, Inc. - Madison, WI

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Notice: Please complete Form 3300-5 and return it to the appropriate DNR office and bureau. Completion of this report is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other _____

(1) GENERAL INFORMATION		(2) FACILITY / OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County DOUGLAS	Facility Name Murphy Oil-Marine Terminal
Common Well Name <u>GP-1</u> Gov't Lot (If applicable)		Facility ID	License/Permit/Monitoring No.
NE 1/4 of NE 1/4 of Sec. <u>16</u> ; T. <u>49</u> N; R. <u>14</u> <input type="checkbox"/> E <input checked="" type="checkbox"/> W Grid Location		Street Address of Well ~2,000 ft north Winter St.	
_____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, Village, or Town City of Superior	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>		Present Well Owner Murphy Oil USA, Inc.	
Lat. _____ Long _____ or _____		Original Owner	
St. Plane _____ ft. N. _____ ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone		Street Address or Route of Owner 2407 Stinson Ave	
Reason For Abandonment No longer needed		City, State, Zip Code Superior WI 54480-	
WI Unique Well No. of Replacement Well _____			

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION	(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL
Original Construction Date <u>05/26/2005</u>	Pump & Piping Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole	Liner(s) Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug	Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input checked="" type="checkbox"/> Other (Specify) <u>Geoprobe</u>	Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Total Well Depth (ft.) <u>8</u> Casing Diameter (in.) _____	Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(From ground surface) Casing Depth (ft.) _____	Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Lower Drillhole Diameter (in.) <u>2</u>	If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	Required Method of Placing Sealing Material
If Yes, To What Depth? _____ Feet	<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped
Depth to Water (Feet) <u>2</u>	<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain)

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	Sacks Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	8	0.3	

(6) Comments: _____

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment	
Soil Essentials		05/26/2005	
Signature of Person Doing Work <i>John of George H. Fleming</i>		Date Signed 9/21/05	
Street or Route W6306 State Road 39		Telephone Number (608) 527-2355	
City, State, Zip Code New Glarus WI 53574-			

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Date Received	Noted By
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Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other _____

(1) GENERAL INFORMATION		(2) FACILITY/ OWNER INFORMATION	
WI Unique Well No. _____	DNR Well ID No. _____	County DOUGLAS	Facility Name Murphy Oil-Marine Terminal
Common Well Name <u>GP-2</u> Gov't Lot (If applicable) _____		Facility ID _____	License/Permit/Monitoring No. _____
NE 1/4 of NE 1/4 of Sec. <u>16</u> ; T. <u>49</u> N; R. <u>14</u> <input type="checkbox"/> E <input checked="" type="checkbox"/> W Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W. Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>		Street Address of Well ~2,000 ft north Winter St.	
Lat. _____ " Long _____ " or _____ " or _____ " Zone _____		City, Village, or Town City of Superior	
St. Plane _____ ft. N. _____ ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone _____		Present Well Owner Murphy Oil USA, Inc.	Original Owner _____
Reason For Abandonment No longer needed	WI Unique Well No. _____ of Replacement Well _____	Street Address or Route of Owner 2407 Stinson Ave	
		City, State, Zip Code Superior WI 54480-	

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
Original Construction Date <u>05/26/2005</u> <input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) <u>Geoprobe</u> Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock Total Well Depth (ft.) <u>4</u> Casing Diameter (in.) _____ (From ground surface) Casing Depth (ft.) _____ Lower Drillhole Diameter (in.) <u>2</u> Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet Depth to Water (Feet) <u>3</u>		If a Well Construction Report is available, please attach. Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain) _____ Sealing Materials For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Bentonite - Sand Slurry <input type="checkbox"/> Bentonite Chips	

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	Sacks Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	4	0.1	

(6) Comments: _____

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment	
Soil Essentials		05/26/2005	
Signature of Person Doing Work <i>Jeffrey O'Connell Fleming</i>		Date Signed <i>9/24/05</i>	
Street or Route W6306 State Road 39		Telephone Number (608) 527-2355	
City, State, Zip Code New Glarus WI 53574-			

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Date Received	Noted By
Comments	

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Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other _____

(1) GENERAL INFORMATION		(2) FACILITY/ OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County	Facility Name
		DOUGLAS	Murphy Oil-Marine Terminal
Common Well Name <u>GP-3</u> Gov't Lot (if applicable)		Facility ID	License/Permit/Monitoring No.
<u>NE 1/4 of NE 1/4 of Sec. 16 ; T. 49 N; R. 14</u> <input type="checkbox"/> E <input checked="" type="checkbox"/> W		Street Address of Well	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		~2,000 ft north Winter St.	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>		City, Village, or Town	
Lat. _____ Long _____ or _____		City of Superior	
St. Plane _____ ft. N. _____ ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone		Present Well Owner	
Reason For Abandonment		Original Owner	
No longer needed	WI Unique Well No. of Replacement Well _____	Murphy Oil USA, Inc.	
(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		Street Address or Route of Owner	
Original Construction Date <u>05/26/2005</u>		2407 Stinson Ave	
<input type="checkbox"/> Monitoring Well		City, State, Zip Code	
<input type="checkbox"/> Water Well		Superior WI 54480-	
<input checked="" type="checkbox"/> Borehole / Drillhole		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
If a Well Construction Report is available, please attach.		Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
Construction Type:		Liner(s) Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
<input checked="" type="checkbox"/> Other (Specify) <u>Geoprobe</u>		Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Formation Type:		Waa Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Total Well Depth (ft.) <u>4</u> Casing Diameter (in.) _____		Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
(From ground surface) Casing Depth (ft.) _____		If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Lower Drillhole Diameter (in.) <u>2</u>		Required Method of Placing Sealing Material	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
If Yes, To What Depth? _____ Feet		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain)	
Depth to Water (Feet) <u>3</u>		Sealing Materials	
(5) Material Used To Fill Well/Drillhole		<input type="checkbox"/> Neat Cement Grout	
From (Ft.)	To (Ft.)	Sacks Sealant	Mix Ratio or Mud Weight
Surface	4	0.1	
Bentonite Chips			

(6) Comments: _____

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment	
Soil Essentials		05/26/2005	
Signature of Person Doing Work		Date Signed	
<i>Jeff King of Garrett Fleming</i>		9/21/05	
Street or Route		Telephone Number	
W6306 State Road 39		(608) 527-2355	
City, State, Zip Code			
New Glarus WI 53574-			

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Date Received	Noted By
Comments	

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Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other _____

(1) GENERAL INFORMATION		(2) FACILITY/ OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County	Facility Name
		DOUGLAS	Murphy Oil-Marine Terminal
Common Well Name <u>GP-4</u> Gov't Lot (If applicable)		Facility ID	License/Permit/Monitoring No.
<u>NE</u> 1/4 of <u>NE</u> 1/4 of Sec. <u>16</u> ; T. <u>49</u> N; R. <u>14</u> <input type="checkbox"/> E <input checked="" type="checkbox"/> W		Street Address of Well	
_____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		~2,000 ft north Winter St.	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>		City, Village, or Town	
Lat. _____ Long _____ or _____		City of Superior	
St. Plane _____ ft. N. _____ ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone		Present Well Owner	Original Owner
Reason For Abandonment		Murphy Oil USA, Inc.	
No longer needed		Street Address or Route of Owner	
WI Unique Well No. of Replacement Well _____		2407 Stinson Ave	
		City, State, Zip Code	
		Superior WI 54480-	

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
Original Construction Date <u>05/26/2005</u>		Pump & Piping Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
<input type="checkbox"/> Monitoring Well		Liner(s) Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
<input type="checkbox"/> Water Well		Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
<input checked="" type="checkbox"/> Borehole / Drillhole		Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Construction Type:		Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<input checked="" type="checkbox"/> Other (Specify) <u>Geoprobe</u>		Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Formation Type:		If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Required Method of Placing Sealing Material	
Total Well Depth (ft.) <u>8</u> Casing Diameter (in.) _____		<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
(From ground surface) Casing Depth (ft.) _____		<input type="checkbox"/> Screened & Poured <input type="checkbox"/> Other (Explain)	
Lower Drillhole Diameter (in.) <u>2</u>		Sealing Materials	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		<input type="checkbox"/> Neat Cement Grout	
If Yes, To What Depth? _____ Feet		<input type="checkbox"/> Sand-Cement (Concrete) Grout	
Depth to Water (Feet) <u>1.5</u>		<input type="checkbox"/> Concrete	
		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
		<input type="checkbox"/> Bentonite-Sand Slurry " "	
		<input type="checkbox"/> Bentonite Chips	
		For monitoring wells and monitoring well boreholes only	
		<input checked="" type="checkbox"/> Bentonite Chips	
		<input type="checkbox"/> Granular Bentonite	
		<input type="checkbox"/> Bentonite - Cement Grout	
		<input type="checkbox"/> Bentonite - Sand Slurry	

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	Sacks Sealant	Mix Ratio or Mud Weight
	Surface	8	0.3	
Bentonite Chips				

(6) Comments: _____

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment
Soil Essentials		05/26/2005
Signature of Person Doing Work	Date Signed	
<i>Jeffrey of Garrett Fleming</i>	9/21/05	
Street or Route	Telephone Number	
W6306 State Road 39	(608) 527-2355	
City, State, Zip Code		
New Glarus WI 53574-		

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Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other _____

(1) GENERAL INFORMATION		(2) FACILITY/OWNER INFORMATION	
WI Unique Well No. _____	DNR Well ID No. _____	County DOUGLAS	Facility Name Murphy Oil-Marine Terminal
Common Well Name <u>GP-5</u> Gov't Lot (if applicable) _____		Facility ID _____	License/Permit/Monitoring No. _____
Grid Location <u>NE</u> 1/4 of <u>NE</u> 1/4 of Sec. <u>16</u> ; T. <u>49</u> N; R. <u>14</u> <input type="checkbox"/> E <input checked="" type="checkbox"/> W		Street Address of Well ~2,000 ft north Winter St.	
_____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, Village, or Town City of Superior	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>		Present Well Owner Murphy Oil USA, Inc.	
Lat. _____ Long _____ or _____		Original Owner _____	
St. Plane _____ ft. N. _____ ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone		Street Address or Route of Owner 2407 Stinson Ave	
Reason For Abandonment No longer needed		City, State, Zip Code Superior WI 54480-	
WI Unique Well No. _____ of Replacement Well _____			

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
Original Construction Date <u>05/26/2005</u>		Pump & Piping Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Liner(s) Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
If a Well Construction Report is available, please attach.		Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Total Well Depth (ft.) <u>4</u> Casing Diameter (in.) _____		Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
(From ground surface) Casing Depth (ft.) _____		Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Lower Drillhole Diameter (in.) <u>2</u>		If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		Required Method of Placing Sealing Material	
If Yes, To What Depth? _____ Feet		<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
Depth to Water (Feet) <u>2</u>		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain)	

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	Sacks Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	4	0.1	

(6) Comments: _____

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment	
Soil Essentials		05/26/2005	
Signature of Person Doing Work <i>Jeff King of Kenneth Fleming</i>		Date Signed 9/21/05	
Street or Route W6306 State Road 39		Telephone Number (608) 527-2355	
City, State, Zip Code New Glarus WI 53574-			

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Comments	

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Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other _____

(1) GENERAL INFORMATION		(2) FACILITY/ OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County	Facility Name
		DOUGLAS	Murphy Oil-Marine Terminal
Common Well Name	GP-6	Gov't Lot (If applicable)	Facility ID
NE 1/4 of NE 1/4 of Sec. 16 ; T. 49 N; R. 14		<input type="checkbox"/> E <input checked="" type="checkbox"/> W	License/Permit/Monitoring No.
Grid Location			Street Address of Well
			~2,000 ft north Winter St.
Local Grid Origin		Well Location <input checked="" type="checkbox"/>	City, Village, or Town
			City of Superior
Lat. _____	Long _____	or	Present Well Owner
			Murphy Oil USA, Inc.
St. Plane _____	ft. N. _____	ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone	Original Owner
			Street Address or Route of Owner
			2407 Stinson Ave
Reason For Abandonment	WI Unique Well No.	City, State, Zip Code	
No longer needed	of Replacement Well _____	Superior WI 54480-	

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
Original Construction Date	05/26/2005	Pump & Piping Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input type="checkbox"/> Monitoring Well	If a Well Construction Report is available, please attach.	Liner(s) Removed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable
<input type="checkbox"/> Water Well		Screen Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input checked="" type="checkbox"/> Borehole / Drillhole		Casing Left in Place?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Construction Type:		Was Casing Cut Off Below Surface?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Did Sealing Material Rise to Surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Other (Specify) Geoprobe		Did Material Settle After 24 Hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Formation Type:		If Yes, Was Hole Retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Required Method of Placing Sealing Material	
Total Well Depth (ft.) 4 Casing Diameter (in.) _____		<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
(From ground surface) Casing Depth (ft.) _____		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain)	
Lower Drillhole Diameter (in.) 2		Sealing Materials	For monitoring wells and monitoring well boreholes only
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		<input type="checkbox"/> Neat Cement Grout	<input checked="" type="checkbox"/> Bentonite Chips
If Yes, To What Depth? _____ Feet		<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Granular Bentonite
Depth to Water (Feet) 2		<input type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite - Cement Grout
		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	<input type="checkbox"/> Bentonite - Sand Slurry
		<input type="checkbox"/> Bentonite-Sand Slurry " "	<input type="checkbox"/> Bentonite - Sand Slurry
		<input type="checkbox"/> Bentonite Chips	

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	Sacks Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	4	0.1	

(6) Comments: _____

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment	
Soil Essentials		05/26/2005	
Signature of Person Doing Work		Date Signed	
<i>Jeffrey of Garrett Fleming</i>		9/2/05	
Street or Route		Telephone Number	
W6306 State Road 39		(608) 527-2355	
City, State, Zip Code			
New Glarus WI 53574-			

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Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other _____

(1) GENERAL INFORMATION		(2) FACILITY / OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County	Facility Name
		DOUGLAS	Murphy Oil-Marine Terminal
Common Well Name	GP-7	Gov't Lot (if applicable)	Facility ID
NE 1/4 of NE 1/4 of Sec. 16		T. 49 N; R. 14	License/Permit/Monitoring No.
Grid Location			Street Address of Well
			~2,000 ft north Winter St.
			City, Village, or Town
			City of Superior
Local Grid Origin			Present Well Owner
			Murphy Oil USA, Inc.
Lat.			Original Owner
St. Plane			Street Address or Route of Owner
			2407 Stinson Ave
Reason For Abandonment			City, State, Zip Code
No longer needed			Superior WI 54480-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
Original Construction Date	05/26/2005	Pump & Piping Removed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable
<input type="checkbox"/> Monitoring Well		Liner(s) Removed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable
<input type="checkbox"/> Water Well		Screen Removed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable
<input checked="" type="checkbox"/> Borehole / Drillhole		Casing Left in Place?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Construction Type:		Was Casing Cut Off Below Surface?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Drilled		Did Sealing Material Rise to Surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Driven (Sandpoint)		Did Material Settle After 24 Hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input checked="" type="checkbox"/> Other (Specify) Geoprobe		If Yes, Was Hole Retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Formation Type:		Required Method of Placing Sealing Material	
<input checked="" type="checkbox"/> Unconsolidated Formation		<input checked="" type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped
<input type="checkbox"/> Bedrock		<input type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain)
Total Well Depth (ft.)	4	Sealing Materials	For monitoring wells and monitoring well boreholes only
(From ground surface)		<input type="checkbox"/> Neat Cement Grout	<input checked="" type="checkbox"/> Bentonite Chips
Casing Diameter (in.)		<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Granular Bentonite
Casing Depth (ft.)		<input type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite - Cement Grout
Lower Drillhole Diameter (in.)	2	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	<input type="checkbox"/> Bentonite - Sand Slurry
Was Well Annular Space Grouted?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	<input type="checkbox"/> Bentonite-Sand Slurry " "	
If Yes, To What Depth?	Feet	<input type="checkbox"/> Bentonite Chips	
Depth to Water (Feet)	2		

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	Sacks Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	4	0.1	

(6) Comments: _____

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment
Soil Essentials		05/26/2005
Signature of Person Doing Work	Date Signed	
<i>Jeff King of Garrett Fleming</i>	7/21/05	
Street or Route	Telephone Number	
W6306 State Road 39	(608) 527-2355	
City, State, Zip Code		
New Glarus WI 53574-		

FOR DNR OR COUNTY USE ONLY	
Date Received	Noted By
Comments	

ATTACHMENT C

CHAIN OF CUSTODY RECORDS AND ANALYTICAL REPORTS
FOR SOIL AND GROUNDWATER SAMPLES





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ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221
WEBSITE www.usfilter.com

RECEIVED		
GANNETT FLEMING, INC.		
MADISON, WI		
JUN 17 2005		
34265.003		
FILE NO.		
TLH	AJH	CCW
DFK	AWM	JRS
DJO	JEC	JK JK

June 15, 2005

Gannett Fleming, Inc.
8025 Excelsior Drive
Madison, WI 53717

Attn: Jeff King/ Liz Lundmark

REPORT NO.: 178217

PROJECT NO.: 34265.003

Please find enclosed the analytical report, including the Sample Summary, Sample Narrative and Chain of Custody for your sample set received June 1, 2005.

All analyses were performed in accordance with NELAC Standards using approved methods as indicated on this report.

If you have any questions about the results, please call. Thank you for using USFilter, Enviroscan Services for your analytical needs.

Sincerely,

USFilter, Enviroscan Services

James R. Salkowski
Laboratory Director

I certify that the data contained in this report has been generated and reviewed in accordance with the USFilter, Enviroscan Services Quality Assurance Program. Exceptions, if any, are discussed in the sample narrative. Samples will be retained for 30 days from the date of this report, then disposed in an appropriate manner. USFilter, Enviroscan Services reserves the right to return samples identified as hazardous. Release of this Final Report is authorized as verified by the following signature.

Approved by:

Certifications:
Wisconsin 737053130
Minnesota 055-999-302
Illinois 100317



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301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221
WEBSITE www.usfilter.com

Sample Summary

178217.2

<u>Lab Id</u>	<u>Client Sample ID</u>	<u>Date/Time</u>	<u>Matrix</u>
178217	GP1 0-2	05/26/05 09:55	SOIL
178218	GP2 2-3	05/26/05 10:20	SOIL
178219	GP3 2-3	05/26/05 10:30	SOIL
178220	GP4 0-2	05/26/05 11:00	SOIL
178221	GP5 0-2	05/26/05 11:35	SOIL
178222	GP6 0-2	05/26/05 11:45	SOIL
178223	GP7 0-2	05/26/05 12:00	SOIL
178224	GP1	05/26/05 10:05	GROUNDWATER
178225	GP4	05/26/05 11:15	GROUNDWATER

Sample Narrative/Sample Status

LOGIN:

GENERAL:

ANALYSES:

QA/QC:

REPORTING:

Definitions

LOD = Limit of Detection (Not dilution corrected) $\mu\text{g/l}$ = Micrograms per liter = parts per billion (ppb)
LOQ = Limit of Quantitation (Not dilution corrected) $\mu\text{g/kg}$ = Micrograms per kilogram = parts per billion (ppb)
< = Less Than mg/l = Milligrams per liter = parts per million (ppm)
COMP = Complete mg/kg = Milligrams per kilogram = parts per million (ppm)
SUBCON = Subcontracted analysis NOT PRES = Not Present
mv = millivolts ppth = Parts per thousand
pCi/l = picocurie per liter (S) = Surrogate Compound
ml/l = milliliters/Liter mg/m^3 = Milligrams/meter cube
mg = milligrams ng/l = Nanograms per liter



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Gannett Fleming, Inc.
8025 Excelsior Drive
Madison, WI 53717

PROJECT NO.: 34265.003
REPORT NO. : 178217.3
DATE REC'D : 06/01/05
REPORT DATE: 06/15/05
PREPARED BY: JRS

Attn: Jeff King/ Liz Lundmark

Sample ID: GP1 0-2 Matrix: SOIL Sample Date/Time: 05/26/05 09:55 Lab No. 178217

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 160.3								
Total Solids	86.9	%	-	0.33	1		06/02/05	EAZ
EPA 3050								
Metal Prep	COMP		-	-	-		06/02/05	DJB
EPA 6010								
Total Lead	14.3	mg/kg	0.53	1.76	1		06/03/05	DJB
EPA 8021 (Only positively identified analytes are reported on a dry weight basis)								
Benzene	0.352	mg/kg	0.008	0.027	1		06/04/05	LMP
Ethylbenzene	0.268	mg/kg	0.007	0.023	1		06/04/05	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	1		06/04/05	LMP
Toluene	0.886	mg/kg	0.007	0.023	1		06/04/05	LMP
1,2,4-Trimethylbenzene	0.439	mg/kg	0.012	0.04	1		06/04/05	LMP
1,3,5-Trimethylbenzene	0.16	mg/kg	0.01	0.033	1		06/04/05	LMP
m- & p-Xylene	1.00	mg/kg	0.015	0.05	1		06/04/05	LMP
o-Xylene	0.444	mg/kg	0.008	0.027	1		06/04/05	LMP
PID Surrogate Recovery (S)	97.2	%	-	-	1		06/04/05	LMP
EPA 8310								
Acenaphthene	<0.0541	mg/kg	0.0047	0.016	10		06/10/05	LMP
Acenaphthylene	<0.0759	mg/kg	0.0066	0.022	10		06/10/05	LMP
Anthracene	<0.0242	mg/kg	0.0021	0.007	10		06/10/05	LMP
Benzo(a)Anthracene	0.108	mg/kg	0.0041	0.014	10		06/10/05	LMP
Benzo(a)Pyrene	0.137	mg/kg	0.0023	0.0077	10		06/10/05	LMP
Benzo(b)Fluoranthene	0.227	mg/kg	0.0021	0.007	10		06/10/05	LMP
Benzo(k)Fluoranthene	0.0792	mg/kg	0.0029	0.0097	10		06/10/05	LMP
Benzo(ghi)Perylene	0.234	mg/kg	0.0021	0.007	10		06/10/05	LMP
Chrysene	0.106	mg/kg	0.0023	0.0077	10		06/10/05	LMP
Dibenzo(a,h)Anthracene	<0.0161	mg/kg	0.0014	0.0047	10		06/10/05	LMP
Fluoranthene	0.856	mg/kg	0.00221	0.0074	10		06/10/05	LMP
Fluorene	<0.023	mg/kg	0.002	0.0067	10		06/10/05	LMP
Indeno(1,2,3-cd)Pyrene	0.15	mg/kg	0.0016	0.0053	10		06/10/05	LMP
1-Methyl Naphthalene	0.203	mg/kg	0.0035	0.012	10		06/10/05	LMP
2-Methyl Naphthalene	0.305	mg/kg	0.0041	0.014	10		06/10/05	LMP
Naphthalene	0.386	mg/kg	0.0016	0.0053	10		06/10/05	LMP
Phenanthrene	0.482	mg/kg	0.0023	0.0077	10		06/10/05	LMP
Pyrene	<0.0242	mg/kg	0.0021	0.007	10		06/10/05	LMP
9,10-Diphenylanthracene (S)	78.9	%	-	-	10		06/10/05	LMP
Method 3550 Ultrasonic Ext.	COMP		-	-	-		06/09/05	JEG
WI DNR								
Soil Diesel Range Organics	467.	mg/kg	-	5.0	1	D2A D2B	06/10/05	LMP
Soil Org Ext - DRO	COMP		-	-	-		06/06/05	JEG
Soil Gasoline Range Organic	8.22	mg/kg	-	5.0	1	G2 G6	06/04/05	LMP

All results calculated on a dry weight basis.



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Gannett Fleming, Inc.
8025 Excelsior Drive
Madison, WI 53717

PROJECT NO.: 34265.003
REPORT NO. : 178217.4
DATE REC'D : 06/01/05
REPORT DATE: 06/15/05
PREPARED BY: JRS

Attn: Jeff King/ Liz Lundmark

Sample ID:	GP2 2-3	Matrix:	SOIL	Sample Date/Time:	05/26/05 10:20	Lab No.	178218	
	<u>Result</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
EPA 160.3								
Total Solids	83.7	%	-	0.33	1		06/02/05	EAZ
EPA 3050								
Metal Prep	COMP		-	-	-		06/02/05	DJB
EPA 6010								
Total Lead	3.57	mg/kg	0.53	1.76	1		06/03/05	DJB
EPA 8021 (Only positively identified analytes are reported on a dry weight basis)								
Benzene	<0.025	mg/kg	0.008	0.027	1		06/04/05	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	1		06/04/05	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	1		06/04/05	LMP
Toluene	<0.025	mg/kg	0.007	0.023	1		06/04/05	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	1		06/04/05	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	1		06/04/05	LMP
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	1		06/04/05	LMP
o-Xylene	<0.025	mg/kg	0.008	0.027	1		06/04/05	LMP
PID Surrogate Recovery (S)	97.2	%	-	-	1		06/04/05	LMP
EPA 8310								
Acenaphthene	<0.00562	mg/kg	0.0047	0.016	1		06/10/05	LMP
Acenaphthylene	<0.00789	mg/kg	0.0066	0.022	1		06/10/05	LMP
Anthracene	<0.00251	mg/kg	0.0021	0.007	1		06/10/05	LMP
Benzo(a)Anthracene	<0.0049	mg/kg	0.0041	0.014	1		06/10/05	LMP
Benzo(a)Pyrene	<0.00275	mg/kg	0.0023	0.0077	1		06/10/05	LMP
Benzo(b)Fluoranthene	<0.00251	mg/kg	0.0021	0.007	1		06/10/05	LMP
Benzo(k)Fluoranthene	<0.00346	mg/kg	0.0029	0.0097	1		06/10/05	LMP
Benzo(ghi)Perylene	<0.00251	mg/kg	0.0021	0.007	1		06/10/05	LMP
Chrysene	<0.00275	mg/kg	0.0023	0.0077	1		06/10/05	LMP
Dibenzo(a,h)Anthracene	<0.00167	mg/kg	0.0014	0.0047	1		06/10/05	LMP
Fluoranthene	0.0106	mg/kg	0.00221	0.0074	1		06/10/05	LMP
Fluorene	<0.00239	mg/kg	0.002	0.0067	1		06/10/05	LMP
Indeno(1,2,3-cd)Pyrene	<0.00191	mg/kg	0.0016	0.0053	1		06/10/05	LMP
1-Methyl Naphthalene	<0.00418	mg/kg	0.0035	0.012	1		06/10/05	LMP
2-Methyl Naphthalene	<0.0049	mg/kg	0.0041	0.014	1		06/10/05	LMP
Naphthalene	<0.00191	mg/kg	0.0016	0.0053	1		06/10/05	LMP
Phenanthrene	0.0062	mg/kg	0.0023	0.0077	1	J	06/10/05	LMP
Pyrene	<0.00251	mg/kg	0.0021	0.007	1		06/10/05	LMP
9,10-Diphenylanthracene (S)	86.8	%	-	-	1		06/10/05	LMP
Method 3550 Ultrasonic Ext.	COMP		-	-	-		06/09/05	JEG
WI DNR								
Soil Diesel Range Organics	<5.97	mg/kg	-	5.0	1		06/10/05	LMP
Soil Org Ext - DRO	COMP		-	-	-		06/06/05	JEG
Soil Gasoline Range Organic	<5.97	mg/kg	-	5.0	1		06/04/05	LMP

All results calculated on a dry weight basis.



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WEBSITE www.usfilter.com

Gannett Fleming, Inc.
8025 Excelsior Drive
Madison, WI 53717

PROJECT NO.: 34265.003
REPORT NO. : 178217.5
DATE REC'D : 06/01/05
REPORT DATE: 06/15/05
PREPARED BY: JRS

Attn: Jeff King/ Liz Lundmark

Sample ID:	GP3 2-3	Matrix:	SOIL	Sample Date/Time:	05/26/05 10:30	Lab No.	178219	
	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 160.3								
Total Solids	85.5	%	-	0.33	1		06/02/05	EAZ
EPA 3050								
Metal Prep	COMP		-	-	-		06/02/05	DJB
EPA 6010								
Total Lead	2.04	mg/kg	0.53	1.76	1		06/03/05	DJB
EPA 8021 (Only positively identified analytes are reported on a dry weight basis)								
Benzene	<0.025	mg/kg	0.008	0.027	1		06/04/05	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	1		06/04/05	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	1		06/04/05	LMP
Toluene	<0.025	mg/kg	0.007	0.023	1		06/04/05	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	1		06/04/05	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	1		06/04/05	LMP
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	1		06/04/05	LMP
o-Xylene	<0.025	mg/kg	0.008	0.027	1		06/04/05	LMP
PID Surrogate Recovery (S)	97.2	%	-	-	1		06/04/05	LMP
EPA 8310								
Acenaphthene	<0.0055	mg/kg	0.0047	0.016	1		06/10/05	LMP
Acenaphthylene	<0.00772	mg/kg	0.0066	0.022	1		06/10/05	LMP
Anthracene	<0.00246	mg/kg	0.0021	0.007	1		06/10/05	LMP
Benzo(a)Anthracene	<0.0048	mg/kg	0.0041	0.014	1		06/10/05	LMP
Benzo(a)Pyrene	<0.00269	mg/kg	0.0023	0.0077	1		06/10/05	LMP
Benzo(b)Fluoranthene	<0.00246	mg/kg	0.0021	0.007	1		06/10/05	LMP
Benzo(k)Fluoranthene	<0.00339	mg/kg	0.0029	0.0097	1		06/10/05	LMP
Benzo(ghi)Perylene	<0.00246	mg/kg	0.0021	0.007	1		06/10/05	LMP
Chrysene	<0.00269	mg/kg	0.0023	0.0077	1		06/10/05	LMP
Dibenzo(a,h)Anthracene	<0.00164	mg/kg	0.0014	0.0047	1		06/10/05	LMP
Fluoranthene	<0.00257	mg/kg	0.00221	0.0074	1		06/10/05	LMP
Fluorene	<0.00234	mg/kg	0.002	0.0067	1		06/10/05	LMP
Indeno(1,2,3-cd)Pyrene	<0.00187	mg/kg	0.0016	0.0053	1		06/10/05	LMP
1-Methyl Naphthalene	<0.00409	mg/kg	0.0035	0.012	1		06/10/05	LMP
2-Methyl Naphthalene	<0.0048	mg/kg	0.0041	0.014	1		06/10/05	LMP
Naphthalene	<0.00187	mg/kg	0.0016	0.0053	1		06/10/05	LMP
Phenanthrene	<0.00269	mg/kg	0.0023	0.0077	1		06/10/05	LMP
Pyrene	<0.00246	mg/kg	0.0021	0.007	1		06/10/05	LMP
9,10-Diphenylanthracene (S)	83.0	%	-	-	1		06/10/05	LMP
Method 3550 Ultrasonic Ext.	COMP		-	-	-		06/09/05	JEG
WI DNR								
Soil Diesel Range Organics	<5.85	mg/kg	-	5.0	1		06/10/05	LMP
Soil Org Ext - DRO	COMP		-	-	-		06/06/05	JEG
Soil Gasoline Range Organic	<5.85	mg/kg	-	5.0	1		06/04/05	LMP

All results calculated on a dry weight basis.



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Gannett Fleming, Inc.
8025 Excelsior Drive
Madison, WI 53717

PROJECT NO.: 34265.003
REPORT NO. : 178217.6
DATE REC'D : 06/01/05
REPORT DATE: 06/15/05
PREPARED BY: JRS

Attn: Jeff King/ Liz Lundmark

Sample ID: GP4 0-2 Matrix: SOIL Sample Date/Time: 05/26/05 11:00 Lab No. 178220

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 160.3								
Total Solids	87.5	%	-	0.33	1		06/02/05	EAZ
EPA 3050								
Metal Prep	COMP		-	-	-		06/02/05	DJB
EPA 6010								
Total Lead	8.54	mg/kg	0.53	1.76	1		06/03/05	DJB
EPA 8021 (Only positively identified analytes are reported on a dry weight basis)								
Benzene	<0.025	mg/kg	0.008	0.027	1		06/04/05	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	1		06/04/05	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	1		06/04/05	LMP
Toluene	<0.025	mg/kg	0.007	0.023	1		06/04/05	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	1		06/04/05	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	1		06/04/05	LMP
m- & p-Xylene	0.0318	mg/kg	0.015	0.05	1		06/04/05	LMP
o-Xylene	<0.025	mg/kg	0.008	0.027	1		06/04/05	LMP
PID Surrogate Recovery (S)	97.2	%	-	-	1		06/04/05	LMP
EPA 8310								
Acenaphthene	0.559	mg/kg	0.0047	0.016	20		06/14/05	LMP
Acenaphthylene	<0.151	mg/kg	0.0066	0.022	20		06/14/05	LMP
Anthracene	1.23	mg/kg	0.0021	0.007	20		06/14/05	LMP
Benzo(a)Anthracene	1.36	mg/kg	0.0041	0.014	20		06/14/05	LMP
Benzo(a)Pyrene	0.863	mg/kg	0.0023	0.0077	20		06/14/05	LMP
Benzo(b)Fluoranthene	0.971	mg/kg	0.0021	0.007	20		06/14/05	LMP
Benzo(k)Fluoranthene	0.473	mg/kg	0.0029	0.0097	20		06/14/05	LMP
Benzo(ghi)Perylene	0.773	mg/kg	0.0021	0.007	20		06/14/05	LMP
Chrysene	1.04	mg/kg	0.0023	0.0077	20		06/14/05	LMP
Dibenzo(a,h)Anthracene	<0.032	mg/kg	0.0014	0.0047	20		06/14/05	LMP
Fluoranthene	6.07	mg/kg	0.00221	0.0074	20		06/14/05	LMP
Fluorene	0.578	mg/kg	0.002	0.0067	20		06/14/05	LMP
Indeno(1,2,3-cd)Pyrene	0.434	mg/kg	0.0016	0.0053	20		06/14/05	LMP
1-Methyl Naphthalene	<0.08	mg/kg	0.0035	0.012	20		06/14/05	LMP
2-Methyl Naphthalene	<0.0937	mg/kg	0.0041	0.014	20		06/14/05	LMP
Naphthalene	<0.0366	mg/kg	0.0016	0.0053	20		06/14/05	LMP
Phenanthrene	4.59	mg/kg	0.0023	0.0077	20		06/14/05	LMP
Pyrene	5.13	mg/kg	0.0021	0.007	20		06/14/05	LMP
9,10-Diphenylanthracene (S)	131.	%	-	-	20		06/14/05	LMP
Method 3550 Ultrasonic Ext.	COMP		-	-	-		06/09/05	JEG
WI DNR								
Soil Diesel Range Organics	97.7	mg/kg	-	5.0	1	D3 D4	06/10/05	LMP
Soil Org Ext - DRO	COMP		-	-	-		06/06/05	JEG
Soil Gasoline Range Organic	<5.71	mg/kg	-	5.0	1		06/04/05	LMP

All results calculated on a dry weight basis.



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ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221
WEBSITE www.usfilter.com

Gannett Fleming, Inc.
8025 Excelsior Drive
Madison, WI 53717

PROJECT NO.: 34265.003
REPORT NO. : 178217.7
DATE REC'D : 06/01/05
REPORT DATE: 06/15/05
PREPARED BY: JRS

Attn: Jeff King/ Liz Lundmark

Sample ID:	GP5 0-2	Matrix:	SOIL	Sample Date/Time:	05/26/05 11:35	Lab No.	178221	
	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 160.3								
Total Solids	84.8	%	-	0.33	1		06/02/05	EAZ
EPA 3050								
Metal Prep	COMP		-	-	-		06/02/05	DJB
EPA 6010								
Total Lead	11.5	mg/kg	0.53	1.76	1		06/03/05	DJB
EPA 8021 (Only positively identified analytes are reported on a dry weight basis)								
Benzene	<0.025	mg/kg	0.008	0.027	1.1		06/04/05	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	1.1		06/04/05	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	1.1		06/04/05	LMP
Toluene	0.0408	mg/kg	0.007	0.023	1.1		06/04/05	LMP
1,2,4-Trimethylbenzene	0.0325	mg/kg	0.012	0.04	1.1		06/04/05	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	1.1		06/04/05	LMP
m- & p-Xylene	0.0548	mg/kg	0.015	0.05	1.1		06/04/05	LMP
o-Xylene	0.0348	mg/kg	0.008	0.027	1.1		06/04/05	LMP
PID Surrogate Recovery (S)	97.2	%	-	-	1		06/04/05	LMP
EPA 8310								
Acenaphthene	<0.0554	mg/kg	0.0047	0.016	10		06/10/05	LMP
Acenaphthylene	<0.0778	mg/kg	0.0066	0.022	10		06/10/05	LMP
Anthracene	1.71	mg/kg	0.0021	0.007	10		06/10/05	LMP
Benzo(a)Anthracene	2.64	mg/kg	0.0041	0.014	10		06/10/05	LMP
Benzo(a)Pyrene	1.86	mg/kg	0.0023	0.0077	10		06/10/05	LMP
Benzo(b)Fluoranthene	2.42	mg/kg	0.0021	0.007	10		06/10/05	LMP
Benzo(k)Fluoranthene	1.02	mg/kg	0.0029	0.0097	10		06/10/05	LMP
Benzo(ghi)Perylene	1.54	mg/kg	0.0021	0.007	10		06/10/05	LMP
Chrysene	2.03	mg/kg	0.0023	0.0077	10		06/10/05	LMP
Dibenzo(a,h)Anthracene	<0.0165	mg/kg	0.0014	0.0047	10		06/10/05	LMP
Fluoranthene	9.98	mg/kg	0.00221	0.0074	50		06/14/05	LMP
Fluorene	<0.0236	mg/kg	0.002	0.0067	10		06/10/05	LMP
Indeno(1,2,3-cd)Pyrene	1.25	mg/kg	0.0016	0.0053	10		06/10/05	LMP
1-Methyl Naphthalene	<0.0413	mg/kg	0.0035	0.012	10		06/10/05	LMP
2-Methyl Naphthalene	<0.0483	mg/kg	0.0041	0.014	10		06/10/05	LMP
Naphthalene	<0.0189	mg/kg	0.0016	0.0053	10		06/10/05	LMP
Phenanthrene	5.64	mg/kg	0.0023	0.0077	10		06/10/05	LMP
Pyrene	4.09	mg/kg	0.0021	0.007	10		06/10/05	LMP
Method 3550 Ultrasonic Ext.	COMP		-	-	-		06/09/05	JEG
WI DNR								
Soil Diesel Range Organics	43.8	mg/kg	-	5.0	1	D3 D4	06/10/05	LMP
Soil Org Ext - DRO	COMP		-	-	-		06/06/05	JEG
Soil Gasoline Range Organic	<5.90	mg/kg	-	5.0	1.1		06/04/05	LMP

All results calculated on a dry weight basis.



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301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

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Gannett Fleming, Inc.
8025 Excelsior Drive
Madison, WI 53717

PROJECT NO.: 34265.003
REPORT NO. : 178217.8
DATE REC'D : 06/01/05
REPORT DATE: 06/15/05
PREPARED BY: JRS

Attn: Jeff King/ Liz Lundmark

Sample ID: GP6 0-2 Matrix: SOIL Sample Date/Time: 05/26/05 11:45 Lab No. 178222

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 160.3								
Total Solids	75.0	%	-	0.33	1		06/02/05	EAZ
EPA 3050								
Metal Prep	COMP		-	-	-		06/02/05	DJB
EPA 6010								
Total Lead	6.65	mg/kg	0.53	1.76	1		06/03/05	DJB
EPA 8021 (Only positively identified analytes are reported on a dry weight basis)								
Benzene	<0.025	mg/kg	0.008	0.027	1		06/04/05	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	1		06/04/05	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	1		06/04/05	LMP
Toluene	<0.025	mg/kg	0.007	0.023	1		06/04/05	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	1		06/04/05	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	1		06/04/05	LMP
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	1		06/04/05	LMP
o-Xylene	<0.025	mg/kg	0.008	0.027	1		06/04/05	LMP
PID Surrogate Recovery (S)	97.2	%	-	-	1		06/04/05	LMP
EPA 8310								
Acenaphthene	<0.00627	mg/kg	0.0047	0.016	1		06/10/05	LMP
Acenaphthylene	<0.0088	mg/kg	0.0066	0.022	1		06/10/05	LMP
Anthracene	<0.0028	mg/kg	0.0021	0.007	1		06/10/05	LMP
Benzo(a)Anthracene	<0.00547	mg/kg	0.0041	0.014	1		06/10/05	LMP
Benzo(a)Pyrene	0.00579	mg/kg	0.0023	0.0077	1	J	06/10/05	LMP
Benzo(b)Fluoranthene	0.00345	mg/kg	0.0021	0.007	1	J	06/10/05	LMP
Benzo(k)Fluoranthene	<0.00387	mg/kg	0.0029	0.0097	1		06/10/05	LMP
Benzo(ghi)Perylene	0.0232	mg/kg	0.0021	0.007	1		06/10/05	LMP
Chrysene	0.00399	mg/kg	0.0023	0.0077	1	J	06/10/05	LMP
Dibenzo(a,h)Anthracene	<0.00187	mg/kg	0.0014	0.0047	1		06/10/05	LMP
Fluoranthene	0.0066	mg/kg	0.00221	0.0074	1	J	06/10/05	LMP
Fluorene	<0.00267	mg/kg	0.002	0.0067	1		06/10/05	LMP
Indeno(1,2,3-cd)Pyrene	0.0074	mg/kg	0.0016	0.0053	1		06/10/05	LMP
1-Methyl Naphthalene	<0.00467	mg/kg	0.0035	0.012	1		06/10/05	LMP
2-Methyl Naphthalene	<0.00547	mg/kg	0.0041	0.014	1		06/10/05	LMP
Naphthalene	<0.00213	mg/kg	0.0016	0.0053	1		06/10/05	LMP
Phenanthrene	0.004	mg/kg	0.0023	0.0077	1	J	06/10/05	LMP
Pyrene	0.00625	mg/kg	0.0021	0.007	1	J	06/10/05	LMP
9,10-Diphenylanthracene (S)	87.0	%	-	-	1		06/10/05	LMP
Method 3550 Ultrasonic Ext.	COMP		-	-	-		06/09/05	JEG
WI DNR								
Soil Diesel Range Organics	<6.67	mg/kg	-	5.0	1		06/10/05	LMP
Soil Org Ext - DRO	COMP		-	-	-		06/06/05	JEG
Soil Gasoline Range Organic	<6.67	mg/kg	-	5.0	1		06/04/05	LMP

All results calculated on a dry weight basis.



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Gannett Fleming, Inc.
8025 Excelsior Drive
Madison, WI 53717

PROJECT NO.: 34265.003
REPORT NO. : 178217.9
DATE REC'D : 06/01/05
REPORT DATE: 06/15/05
PREPARED BY: JRS

Attn: Jeff King/ Liz Lundmark

Sample ID:	GP7 0-2	Matrix:	SOIL	Sample Date/Time:	05/26/05 12:00	Lab No.	178223	
	<u>Result</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
EPA 160.3								
Total Solids	77.4	%	-	0.33	1		06/02/05	EAZ
EPA 3050								
Metal Prep	COMP		-	-	-		06/02/05	DJB
EPA 6010								
Total Lead	10.5	mg/kg	0.53	1.76	1		06/03/05	DJB
EPA 8021	(Only positively identified analytes are reported on a dry weight basis)							
Benzene	<0.025	mg/kg	0.008	0.027	1		06/04/05	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.023	1		06/04/05	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.06	1		06/04/05	LMP
Toluene	<0.025	mg/kg	0.007	0.023	1		06/04/05	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	1		06/04/05	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.033	1		06/04/05	LMP
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	1		06/04/05	LMP
o-Xylene	<0.025	mg/kg	0.008	0.027	1		06/04/05	LMP
PID Surrogate Recovery (S)	97.2	%	-	-	1		06/04/05	LMP
EPA 8310								
Acenaphthene	11.0	mg/kg	0.0047	0.016	200		06/14/05	LMP
Acenaphthylene	<1.71	mg/kg	0.0066	0.022	200		06/14/05	LMP
Anthracene	29.3	mg/kg	0.0021	0.007	200		06/14/05	LMP
Benzo(a)Anthracene	16.5	mg/kg	0.0041	0.014	200		06/14/05	LMP
Benzo(a)Pyrene	7.24	mg/kg	0.0023	0.0077	200		06/14/05	LMP
Benzo(b)Fluoranthene	8.88	mg/kg	0.0021	0.007	200		06/14/05	LMP
Benzo(k)Fluoranthene	3.42	mg/kg	0.0029	0.0097	200		06/14/05	LMP
Benzo(ghi)Perylene	3.53	mg/kg	0.0021	0.007	200		06/14/05	LMP
Chrysene	10.7	mg/kg	0.0023	0.0077	200		06/14/05	LMP
Dibenzo(a,h)Anthracene	<0.362	mg/kg	0.0014	0.0047	200		06/14/05	LMP
Fluoranthene	84.1	mg/kg	0.00221	0.0074	200		06/14/05	LMP
Fluorene	12.9	mg/kg	0.002	0.0067	200		06/14/05	LMP
Indeno(1,2,3-cd)Pyrene	2.65	mg/kg	0.0016	0.0053	200		06/14/05	LMP
1-Methyl Naphthalene	<0.904	mg/kg	0.0035	0.012	200		06/14/05	LMP
2-Methyl Naphthalene	<1.06	mg/kg	0.0041	0.014	200		06/14/05	LMP
Naphthalene	3.98	mg/kg	0.0016	0.0053	200		06/14/05	LMP
Phenanthrene	74.5	mg/kg	0.0023	0.0077	200		06/14/05	LMP
Pyrene	77.0	mg/kg	0.0021	0.007	200		06/14/05	LMP
Method 3550 Ultrasonic Ext.	COMP		-	-	-		06/09/05	JEG
WI DNR								
Soil Diesel Range Organics	15.1	mg/kg	-	5.0	1	D3 D4	06/10/05	LMP
Soil Org Ext - DRO	COMP		-	-	-		06/09/05	JEG
Soil Gasoline Range Organic	<6.46	mg/kg	-	5.0	1		06/04/05	LMP

All results calculated on a dry weight basis.



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Gannett Fleming, Inc.
8025 Excelsior Drive
Madison, WI 53717

PROJECT NO.: 34265.003
REPORT NO. : 178217.10
DATE REC'D : 06/01/05
REPORT DATE: 06/15/05
PREPARED BY: JRS

Attn: Jeff King/ Liz Lundmark

Sample ID: GP1 Matrix: GRDWTR Sample Date/Time: 05/26/05 10:05 Lab No. 178224

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<0.31	µg/l	0.31	1.03	1		06/07/05	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		06/07/05	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	1.0	1		06/07/05	LMP
Toluene	<0.3	µg/l	0.3	1.0	1		06/07/05	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		06/07/05	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		06/07/05	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1		06/07/05	LMP
o-Xylene	<0.3	µg/l	0.3	1.0	1		06/07/05	LMP
PID Surrogate Recovery (S)	94.1	%	-	-	1		06/07/05	LMP
EPA 8310								
Acenaphthene	<0.06	µg/l	0.06	0.20	1		06/07/05	LMP
Acenaphthylene	<0.06	µg/l	0.06	0.20	1		06/07/05	LMP
Anthracene	<0.05	µg/l	0.05	0.17	1		06/07/05	LMP
Benzo(a)Anthracene	<0.04	µg/l	0.04	0.13	1		06/07/05	LMP
Benzo(a)Pyrene	<0.017	µg/l	0.017	0.057	1		06/07/05	LMP
Benzo(b)Fluoranthene	<0.02	µg/l	0.02	0.067	1		06/07/05	LMP
Benzo(k)Fluoranthene	<0.04	µg/l	0.04	0.13	1		06/07/05	LMP
Benzo(ghi)Perylene	<0.05	µg/l	0.05	0.17	1		06/07/05	LMP
Chrysene	<0.02	µg/l	0.02	0.067	1		06/07/05	LMP
Dibenzo(a,h)Anthracene	<0.06	µg/l	0.06	0.20	1		06/07/05	LMP
Fluoranthene	<0.06	µg/l	0.06	0.20	1		06/07/05	LMP
Fluorene	<0.12	µg/l	0.12	0.40	1		06/07/05	LMP
Indeno(1,2,3-cd)Pyrene	<0.05	µg/l	0.05	0.17	1		06/07/05	LMP
1-Methyl Naphthalene	<0.08	µg/l	0.08	0.27	1		06/07/05	LMP
2-Methyl Naphthalene	<0.11	µg/l	0.11	0.37	1		06/07/05	LMP
Naphthalene	<0.1	µg/l	0.1	0.33	1		06/07/05	LMP
Phenanthrene	<0.08	µg/l	0.08	0.27	1		06/07/05	LMP
Pyrene	<0.09	µg/l	0.09	0.30	1		06/07/05	LMP
9,10-Diphenylanthracene (S)	86.2	%	-	-	1		06/07/05	LMP
Method 3510 Liquid Ext.	COMP		-	-	-		06/01/05	MJG
WI DNR								
Gasoline Range Organics	<50.0	µg/l	-	50.0	1		06/07/05	LMP



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Gannett Fleming, Inc.
8025 Excelsior Drive
Madison, WI 53717

PROJECT NO.: 34265.003
REPORT NO. : 178217.11
DATE REC'D : 06/01/05
REPORT DATE: 06/15/05
PREPARED BY: JRS

Attn: Jeff King/ Liz Lundmark

Sample ID: GP4 Matrix: GRDWTR Sample Date/Time: 05/26/05 11:15 Lab No. 178225

	<u>Result</u>	<u>Units</u>	<u>LOD</u>	<u>LOQ</u>	<u>Dilution Factor</u>	<u>Qualifiers</u>	<u>Date Analyzed</u>	<u>Analyst</u>
<u>EPA 8021</u>								
Benzene	<0.31	µg/l	0.31	1.03	1		06/07/05	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		06/07/05	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	1.0	1		06/07/05	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1		06/07/05	LMP
Toluene	<0.3	µg/l	0.3	1.0	1		06/07/05	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		06/07/05	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		06/07/05	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1		06/07/05	LMP
o-Xylene	<0.3	µg/l	0.3	1.0	1		06/07/05	LMP
PID Surrogate Recovery (S)	94.2	%	-	-	1		06/07/05	LMP
<u>WI DNR</u>								
Gasoline Range Organics	<50.0	µg/l	-	50.0	1		06/07/05	LMP



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Gannett Fleming, Inc.
8025 Excelsior Drive
Madison, WI 53717

PROJECT NO.: 34265.003
REPORT NO. : 178217.12
DATE REC'D : 06/01/05
REPORT DATE: 06/15/05
PREPARED BY: JRS

Attn: Jeff King/ Liz Lundmark

Qualifier Descriptions

- | | |
|-----|---|
| D2A | The chromatogram is characteristic for a light petroleum product. (i.e. gasoline, aged or degraded gasoline, mineral spirits, etc.) |
| D2B | The chromatogram is characteristic for a heavier petroleum product other than diesel. (i.e. motor oil, hydraulic oil, etc.) |
| G2 | The chromatogram has characteristics of an aged gasoline sample. |
| G6 | The chromatogram contains a significant number of peaks and a raised baseline outside the GRO window. |
| J | Estimated concentration below laboratory quantitation level. |
| D3 | The chromatogram is not characteristic for diesel or any single common petroleum product. |
| D4 | The chromatogram contained significant peaks outside the DRO window. |



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Sample Receipt Report

Client: Gonnett Fleming

Date Received: 5/1/05

Analytical No.: 20178217 Through 20178225

Check all deviations from EPA or WDNR sample protocol.

- Sample(s) received at ____ °C which is above the EPA and WDNR limit of 4°C.
- VOC vial(s) received with headspace. Explain: _____
- Sample(s) received in bottles not furnished by Enviroscan. Preservation method, if used, is unknown.
- Sample(s) not properly preserved per EPA/WDNR protocol for the following: _____
- Sample(s) received beyond EPA holding time for: _____
- Sample date/time not supplied by client. Actual holding time unknown.
- GRO/PVOC/VOC/DRO (circle appropriate) sample(s) are < 19.5 gms and this report is the flag for that information. Sample(s) under-weight: _____
- GRO/PVOC/VOC (circle appropriate) sample(s) were between 26.4-35.4 gms so methanol was added in a 1:1 ratio. Sample(s) included: 20178217 12ml
- GRO/PVOC/VOC/DRO (circle appropriate) sample(s) were > 35.4 gms and are required to be rejected. Sample(s) included: _____
- Other: _____

Client contact concerning the above deviations:

Client _____ (contact name) notified of the above deviation(s) on ___/___/___
at ___:___ am/pm by _____ and the client ordered:

(signature)

- Proceed with analyses as ordered.
- Proceed with analyses after taking the following corrective action: _____
- Do NOT proceed with analyses.

REQUEST FOR SERVICES



ENVIROSCAN SERVICES

301 W. MILITARY RD.

ROTHSCHILD, WI 54474

1-800-338-SCAN

REPORT TO:

Name: Jeff King - Garrett Fleming
 Company: 8025 Excelsior Dr.
 Address: Madison, WI 53717

BILL TO: (if different from Report To info)

Name: Liz Lundmark
 Company: Murphy Oil USA Inc
 Address: 2407 Stinson Ave.
Superior, WI 54880
 Phone: () _____

Phone: (608) 836-1500
 P.O.# _____

Project # 34265.003 Quote # 7427
 Location Murphy-Machine Terminal *630753*

ANALYTICAL REQUESTS

(use separate sheet if necessary)

- Sample Type**
 (Check all that apply)
- Groundwater
 - Wastewater
 - Soil/Solid
 - Drinking Water
 - Oil
 - Vapor
 - Other
- Turnaround Time**
- Normal
 - Rush (Pre-approved by Lab)
- Date Needed _____
 Approved By _____

LAB USE ONLY	DATE	TIME	No. of Containers COMP GRAB	SAMPLE ID	DRO	GR0/PVOC	PAH	Lead	GR0/PVOC/Naphthalene	REMARKS
20178217	5/26/05	0955	3	GP1(0-2)						1-400 2-202
20178218		1020		GP2(0-3)						
20178219		1030		GP3(0-3)						
20178220		1100		GP4(0-2)						
20178221		1135		GP5(0-2)						
20178222		1145		GP6(0-2)						
20178223		1200		GP7(0-2)						
20178224		1005	3	GP-1						2-202 GR0/PVOC/PAH
20178225		1115	2	GP4						

CHAIN OF CUSTODY RECORD

SAMPLERS: (Signature) Jeff King

RELINQUISHED BY: (Signature) <u>Jeff King</u>	DATE/TIME <u>5/31/05 11:25</u>	RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LABORATORY BY: (Signature) <u>Denise Anderson</u>

Del'v: Hand **Comm.**

Ship. Cont. OK N N/A

Samples leaking? N N/A

Seals OK? N N/A

Rec'd on ice? N N/A 3°C

Comments: _____

DATE/TIME 5-105 | 0820