

GIS REGISTRY INFORMATION

SITE NAME:	Superior Refinery/Murphy Oil			FID #	
BRRTS #:	02-16-221933			(if appropriate):	
COMMERCE # (if appropriate):	54880-0456-07				
CLOSURE DATE:	October 20, 2003				
STREET ADDRESS:	2400 Stinson Ave				
CITY:	Superior				
SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection):	X =	361555	Y =	693013	
CONTAMINATED MEDIA:	Groundwater	<input type="checkbox"/>	Soil	<input checked="" type="checkbox"/>	Both <input type="checkbox"/>
OFF-SOURCE GW CONTAMINATION >ES:	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N <input type="checkbox"/>
• IF YES, STREET ADDRESS:					
• GPS COORDINATES (meters in WTM91 projection):					
	X =		Y =		
OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL):	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	
• IF YES, STREET ADDRESS 1:					
• GPS COORDINATES (meters in WTM91 projection):					
	X =		Y =		
CONTAMINATION IN RIGHT OF WAY:	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	
<u>DOCUMENTS NEEDED</u>					
Closure Letter, and any conditional closure letter issued					<input checked="" type="checkbox"/>
Copy of most recent deed, including legal description, for all affected properties					<input checked="" type="checkbox"/>
Certified survey map or relevant portion of the recorded plat map (if referenced in the legal description) for all affected properties					<input checked="" type="checkbox"/>
County Parcel ID number, if used for county, for all affected properties					<input checked="" type="checkbox"/>
Location Map which outlines all properties within contaminated site boundaries on USGS topographic map or plat map in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy). If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200' of the site.					<input checked="" type="checkbox"/>
Detailed Site Map(s) for all affected properties, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. (8.5x14", if paper copy) This map shall also show the location of all contaminated public streets, highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding ch. NR 140 ESs and soil contamination exceeding ch. NR 720 generic or SSRCLs.					<input checked="" type="checkbox"/>
Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)					<input checked="" type="checkbox"/>
Tables of Latest Soil Analytical Results (no shading or cross-hatching)					<input checked="" type="checkbox"/>
Isoconcentration map(s), if required for site investigation (SI) (8.5x14" if paper copy). The isoconcentration map should have flow direction and extent of groundwater contamination defined. If not available, include the latest extent of contaminant plume map.					<input type="checkbox"/>
GW: Table of water level elevations, with sampling dates, and free product noted if present					<input checked="" type="checkbox"/>
GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees)					<input checked="" type="checkbox"/>
SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour					<input checked="" type="checkbox"/>
Geologic cross-sections, if required for SI. (8.5x14" if paper copy)					<input type="checkbox"/>
RP certified statement that legal descriptions are complete and accurate					<input checked="" type="checkbox"/>
Copies of off-source notification letters (if applicable)					<input type="checkbox"/>
Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW)					<input type="checkbox"/>
Copy of (soil or land use) deed restriction(s) or deed notice if any required as a condition of closure					<input type="checkbox"/>



October 20, 2003

Liz Lundmark
Murphy Oil USA
2400 Stinson Ave
PO Box 2066
Superior, WI 54880

RE: **Final Closure**

Commerce # 54880-0456-07-R WDNR BRRTS # 02-16-221933
Superior Refinery/Murphy Oil, 2400 Stinson Ave, Superior

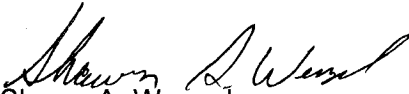
Dear Ms. Lundmark:

The Wisconsin Department of Commerce (Commerce) has received all items required as conditions for closure of the site referenced above. This case is now listed as "closed" on the Commerce database and will be included on the Wisconsin Department of Natural Resources (WDNR) Geographic Information System (GIS) Registry of Closed Remediation Sites to address residual contamination. It is in your best interest to keep all documentation related to the environmental activities that were conducted.

If residual contamination is encountered in the future, it must be managed in accordance with all applicable state and federal regulations. If it is determined that any remaining contamination poses a threat, the case may be reopened and further investigation or remediation may be required.

Thank you for your efforts to bring this case to closure. If you have any questions, please contact me in writing at the letterhead address or by telephone at (608) 261-5401.

Sincerely,


Shawn A. Wenzel
Hydrogeologist
Site Review Section

cc: Jeffery King, Gannett Fleming, Inc.
Case File

April 12, 2000

Ms Liz Lundmark
Murphy Oil USA, Inc.
2407 Stinson Ave
Superior, WI 54880

Subject: **Close-out of Case # 54880-0456-07-R/ BRRTS #02-16-221933
Murphy Oil Tank 31**

Dear Ms. Lundmark:

On April 6, 2000 the above site was reviewed for closure by the Site Review staff of the PECFA Bureau. Because the site met the criteria for transfer to the Department of Commerce, all issues relating to this site are administered by the staff within the Department of Commerce's PECFA Bureau. Using the standards established in NR 700, the Department has determined that this site has been remediated to a level protective of the environment and human health. The Department considers this site to meet environmental standards for closure with a deed notification and groundwater use restriction.

Please have your consultant complete a draft deed notice and groundwater use restriction and submit these to me for review. Once they are approved you may have them attached to the deed for this property and send me final copies with a copy of the receipt indicating they have been filed. Once this is done your site will be officially closed on our tracking system. Also, if you are no longer using the monitoring wells associated with this area please have them abandoned and submit this documentation to me as well.

This is based upon the information provided to us by your consultant. If, in the future, site conditions indicate that any contamination that might remain poses a threat, the need for further remediation would be determined and required if necessary.

Be sure to include a copy of this letter with your PECFA claim package, if your site is eligible for reimbursement. Please be sure to keep all documentation related to the investigation and remediation of your site in case you ever decide to sell this property. The department has made the decision that after 3 years the files we hold for your site will be destroyed. So you are responsible for maintaining this file and passing it on to any future owners.

Thank you for your efforts in the protection of the environment. If you have any additional questions, please call me at 715-762-5557.

Sincerely,

Shanna L. Laube, P.G.
Hydrogeologist
PECFA Program

cc: Gannett Fleming, Inc., Jeff King



Gannett Fleming

GANNETT FLEMING, INC.
8025 Excelsior Drive
Madison, WI 53717-1900
Office: (608) 836-1500
Fax: (608) 831-3337
www.gannettfleming.com

June 26, 2003
File #34265.003

RECEIVED
JUN 30 2003
ERS DIVISION

Shawn Wenzel, Hydrogeologist
Wisconsin Department of Commerce
Site Review Section
201 West Washington Avenue
P.O. Box 8044
Madison, WI 53708-8044

Re: Groundwater GIS Registry Packet
Superior Refinery/Murphy Oil - Tanks 31
2400 Stinson Avenue, Superior
WDNR BRRTS No.: 02-16-221933
COMM ID No: 54880-0456-07-R

Dear Mr. Wenzel:

On behalf of Murphy Oil USA, Inc., Gannett Fleming, Inc. is submitting this Geographic Information System (GIS) Registry Packet for the conditionally-closed Tank 31 release site at Murphy's Superior refinery. As a condition of final closure, the Wisconsin Department of Commerce (COMM) required Murphy to either record a "Groundwater Use Restriction" on its deed or register the Tank 31 release site on WDNR's GIS Registry of Closed Remediation Sites with residual groundwater contamination.

Following is the information the WDNR needs to register the Tank 31 site on the GIS registry:

1. *One-time fee of \$250.00 for groundwater:* A check from Murphy Oil for \$250.00 made out to the WDNR was sent to Ms. Janet Kazda in WDNR's Antigo office.
2. *Copies of the most recent deed:* See Attachment A for a copy of the most recent deed.
3. *A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map:* See Attachment B for a copy of the recorded plat map provided by the Douglas County Clerk's office and dated 29 June 1992.
4. *Geographic position of all properties within or partially within the contaminated site boundaries:* Based on WTM91 projection, representative coordinates for the site are 361555 and 693013. These coordinates were obtained from the following WDNR

Shawn Wenzel, Hydrogeologist
Wisconsin Department of Commerce
June 26, 2003

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website: <http://gomapout.dnr.state.wi.us/org/at/et/geo/gwur/index.htm>. To determine the WTM91 coordinates, the scale of 1:4,859 was used when recording the coordinates.

5. *Parcel identification number for each property:* The parcel number for the Murphy property is 01-801-0339.00. The Douglas County treasurer's office provided the parcel number. An outline of the property can be seen on the recorded plat map (Attachment B)
6. *A location map:* Enclosed Figure 1 is a location map of the Murphy Oil refinery. Tank 31 is located in the approximate middle of the refinery property.
7. *A map of all contaminated properties within site boundaries, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells, and potable wells:* Enclosed Figure 2 is a site plan of the refinery. Figure 3 shows the Tank 31 basin and the locations of the soil samples and monitoring well.
8. *A table of the most recent analytical results, with sample collection dates for groundwater:* Enclosed Tables 1 and 2 present the groundwater sampling results for the single well (MW-1/T31) installed for this investigation.
9. *An iso-concentration map, if required as part of the site investigation:* An iso-concentration map was not prepared as part of the site investigation. One well was installed for this site investigation, and the last sample collected from that well did not exceed any NR 140 enforcement standards for the parameters analyzed. A map showing the horizontal extent of groundwater contamination is not applicable.
10. *A table of the previous four water level elevation measurements from all monitoring wells, at a minimum, with the date measurements were made is to be included:* Enclosed Table 3 presents the water level measurements for the single well (MW-1/T31) installed for the Tank 31 site investigation. Figure 4 is a groundwater contour map for the refinery site based on March 1999 measurements.
11. *A geologic cross section, showing vertical extent and location of residual soil contamination exceeding generic or site specific RCLs and residual groundwater contamination, source extent and location; isoconcentrations for all groundwater contaminants that exceed PALs that remain when closure is requested; water table and piezometric elevations; and the location and elevation of geologic units, bedrock, and*

Shawn Wenzel, Hydrogeologist
Wisconsin Department of Commerce
June 26, 2003

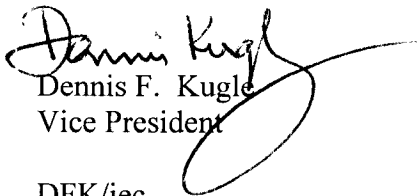
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- confining units, if any:* A geological cross section was not required as part of the site investigation.
12. *A statement signed by the responsible party, which states that he or she believes that the legal descriptions attached to the statement are complete and accurate:* See Attachment C for a signed statement by Murphy Oil USA, Inc. stating that the legal description of the property is complete and accurate.
 13. *A copy of a letter sent by the RP to all owners of properties with groundwater exceeding ESs:* This item is not applicable. The groundwater contamination does not extend off of Murphy Oil property.
 14. *A copy of notification provided to city/village/municipality/state agency responsible for maintenance of a public road right-of-way, within or partially within the boundaries of the contaminated site:* This item is not applicable; the groundwater contamination does not extend into any public road right-of-way.

Please call if you have any questions or need any additional information.

Sincerely,

GANNETT FLEMING, INC.


Dennis F. Kugle
Vice President

DFK/jec


Enc.

cc: Liz Lundmark (Murphy Oil)
Lee Vail (Murphy Oil)
Janet Kazda (WDNR) w/o attachments but w/\$250 check
Dave Edwards (WDNR) w/o attachments


ATTACHMENT A

COPY OF MOST RECENT DEED


THIS INDENTURE, Made by Lake Superior Refining Co.,
 a Wisconsin corporation, grantor, of Douglas County, Wisconsin,
 hereby conveys and warrants to Murphy Corporation, a Louisiana
 corporation, grantee, whose principal office is in Eldorado,
 Union County, Arkansas, in accordance with the plan of complete
 liquidation and dissolution adopted by the Board of Directors
 and Stockholders of the grantor hereinabove mentioned, the
 following tracts of land and personal property in Douglas County,
 State of Wisconsin:



All of the following described lands being on
 West Twenty-third (23) Street, Townsite of
 Superior, in the City of Superior, Douglas
 County, Wisconsin:



All of Block Fifteen (15);
 All of Block Sixteen (16);
 North one-half (N $\frac{1}{2}$) of Block Seventeen (17);
 Southeast Quarter (SE $\frac{1}{4}$) of Block Seventeen (17);
 All of Block Eighteen (18);
 All of Block Nineteen (19), except Lots 314, 316,
 318 and 320 on West Twenty-second (22) Street
 in Bayfront Division;
 All of Block Twenty (20);
 All of Block Twenty-two (22), except Lots 343, 344,
 345, 346, 347, 348, 349, 350, 351 and 352 in Bay-
 front Division, a part of said Block Twenty-two (22);
 All of Block Twenty-four (24);
 All of Block Twenty-six (26);
 All of Block Twenty-eight (28);
 All of Block Thirty (30);



The following described Lots being on West Twenty-
 fifth (25) Street in the Townsite of Superior, in
 the City of Superior, Douglas County, Wisconsin:

All of Block Thirteen (13), subject to the Northern
 Pacific Railway Company easement for a right-of-
 way on Newton Avenue;
 All of Block Fourteen (14), subject to the Northern
 Pacific Railway Company easement for a right-of-
 way on Newton Avenue;
 All of Block Fifteen (15);
 All of Block Sixteen (16);
 All of Block Seventeen (17);
 All of Block Eighteen (18);
 All of Block Nineteen (19);
 All of Block Twenty (20);
 All of Block Twenty-one (21);

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All of Block Twenty-two (22);
All of Block Twenty-three (23);
All of Block Twenty-four (24);
All of Block Twenty-five (25);
All of Block Twenty-six (26);
All of Block Twenty-seven (27);
All of Fractional Block Twenty-eight (28);
All of Block Twenty-nine (29);
All of Block Thirty (30);

The following described Lot being on West Twenty-sixth (26) Street in the Townsite of Superior, in the City of Superior, Douglas County, Wisconsin:

All of Block Thirty-two (32);

The following described Lots being on West Twenty-seventh (27) Street in the Townsite of Superior, in the City of Superior, Douglas County, Wisconsin:

All of Block Nine (9);
All of Block Thirteen (13), subject to the Northern Pacific Railway Company easement for right-of-way on Newton Avenue;
All of Block Fourteen (14), subject to Northern Pacific Railway Company easement for right-of-way on Newton Avenue;
All of Block Fifteen (15);
All of Block Sixteen (16);
All of Block Seventeen (17);
All of Block Eighteen (18);
All of Block Nineteen (19);
All of Block Twenty (20);
All of Block Twenty-one (21);
All of Block Twenty-two (22);
All of Block Twenty-three (23);
All of Block Twenty-four (24);
All of Fractional Block Twenty-five (25);
All of Block Twenty-six (26);
All of Fractional Block Twenty-seven (27);
All of Block Twenty-eight (28);
All of Block Twenty-nine (29);
All of Block Thirty (30);
All of Block Thirty-one (31);
All of Block Thirty-two (32), subject to the Northern Pacific Railway Company easement for right-of-way on Newton Avenue;

The following described Lots being on West Twenty-ninth (29) Street in the Townsite of Superior, in the City of Superior, Douglas County, Wisconsin:

All of Block Seven (7);
All of Block Thirteen (13), subject to the Northern Pacific Railway Company easement for right-of-way on Newton Avenue;
All of Block Fourteen (14), subject to the Northern Pacific Railway Company easement for right-of-way on Newton Avenue;
All of Block Fifteen (15);

All of Block Sixteen (16);
All of Block Seventeen (17);
All of Block Eighteen (18);
All of Block Nineteen (19);
All of Block Twenty (20);
All of Block Twenty-one (21);
All of Block Twenty-two (22);
All of Block Twenty-three (23);
All of Block Twenty-four (24);
All of Block Twenty-five (25);
All of Block Twenty-six (26);
All of Block Twenty-seven (27);
All of Block Twenty-eight (28);
All of Block Twenty-nine (29);
That part of Block Thirty (30) lying East of the
East line of the Wisconsin Central Railway
Company right-of-way;
That part of Block Thirty-one (31) lying East of
the East line of the Wisconsin Central Railway
Company right-of-way;

Also the following easements:

1. A right-of-way easement five feet (5') in width for the purpose of laying, maintaining, operating, patrolling, altering, repairing, renewing and removing, in whole or in part, a six inch (6") supply pipe line for the transportation of crude petroleum from the storage tanks of the Lakehead Pipe Line Company, Inc. to the refinery owned and operated by Lake Superior Refining Co., together with the necessary fixtures, equipment and appurtenances over, through, upon, under, and across that portion of the Lakehead Pipe Line Company, Inc. property now traversed by said pipe line as it is presently laid and located; and as shown on the sketch or plat attached to that certain deed from Lakehead Pipe Line Company, Inc. to Superior Refinery Owners, Inc. dated July 23, 1952; and recorded in 232 of Deeds, page 231, in the office of the Register of Deeds for Douglas County, Wisconsin, said property being situated in Douglas County, Wisconsin, together with the rights of ingress and egress to and from said right-of-way through and over said above described land for any and all purposes necessary to the exercise by the grantee of the rights therein granted. Said easement to be effective as long as crude oil is taken through the pipe line system of Lakehead Pipe Line Company, Inc., subject to the restrictions contained in said easement deed.
2. That certain easement for a six inch (6") pipe line between Superior Refinery Owners, Inc. and the tank farm of the Lakehead Pipe Line Company, Inc. located in the City of Superior, Douglas County, Wisconsin, and described as follows: Commencing at a point on Twenty-sixth Avenue East and East Twenty-third Street; thence generally in an Easterly direction along the North property line

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of the Lakehead Pipe Line Company, Inc. to East Twentieth Street; thence in a South-easterly direction to Tank No. 5, a total distance of approximately eight hundred fifty (850) feet, in the City of Superior, Douglas County, Wisconsin; thence on East Twenty-third Street from the Lakehead Pipe Line Company, Inc. property line to Twenty-third Avenue East; thence beneath the tracks of the Northern Pacific Railway Company on Newton Avenue on Twenty-fifth Avenue East (formerly Newton Avenue) and the tracks of the Northern Pacific Railway Company's ore dock line between Twenty-fifth Avenue East and Twenty-sixth Avenue East along a line parallel with and distant ten (10) feet Southwesterly, measured at right angles, from the center line of East Twenty-third Street in the City of Superior, Douglas County, Wisconsin; and thence crossing Block Nine (9) on West Twenty-third Street and Block Ten (10) on West Twenty-first Street, in the City of Superior, according to the recorded plat thereof, along a line parallel with and distant two hundred forty (240) feet Southerly, measured at right angles, from the center line of the main track of the Northern Pacific Railway Company's Oregon dock line as now constructed; and crossing the Northern Pacific Railway Company's property in Block Seven (7) on West Twenty-first Street in the City of Superior, Douglas County, Wisconsin, along a line parallel with and distant twenty-seven (27) feet, more or less, Northeasterly, measured at right angles, from the Southwesterly line of said Block Seven (7), from the Northwesterly line of said Block Seven (7), to a point distant two hundred fifty (250) feet Southerly, measured at right angles, from said track center line; together with all easements, rights, contracts, grants, licenses, assignments, and permits of any nature, whether oral or written, and whether recorded or unrecorded, and all rights and interests arising out of adverse possession, or use of any kind or nature respecting the laying of pipe lines used in connection with the operation of said refinery and belonging to Lake Superior Refining Co., or in which it has some right, title or interest, and the maintenance, use, operation, repair, replacement and removal thereof upon, over, under and across the lands of others, and all pipe or pipes, pumps, compressors, motors, valves, controls, meters and all other equipment and apparatus constituting a part of or used in the operation of said pipe lines, including but not limited to said six inch (6") pipe line between the tank farm of said Lakehead Pipe Line Company, Inc. and said refinery of Lake Superior Refining Co.

3. That part of the West one-half (W½) of Section Thirty-six (36), Township Forty-nine (49) North, Range Fourteen (14) West, more fully described as follows: Commencing at the North Quarter (N¼) corner of said Section Thirty-six (36), thence due South along the North-South quarter line, being the center line of Bardon Avenue, a distance of 1456.64 feet to the South property line of Twenty-sixth (26) Avenue extended; thence South 48° 36' West along the South property line of Twenty-sixth Avenue, a distance of 481 feet to the point of beginning; thence continuing in the same straight line a distance of 1323.53 feet to a point; thence South 89° 46' West, a distance of 151.91 feet to a point; thence South 48° 36' West a distance of 162.43 feet to a point; thence South 41° 24' East, a distance of 751 feet to a point; thence North 48° 36' East, a distance of 1463.36 feet to a point on the West line of Bardon Avenue; thence due North along the West line of Bardon Avenue, a distance of 207.10 feet to a point; thence North 41° 24' West a distance of 495.66 feet to the point of beginning, containing 24.18 acres, more or less, all in the City of Superior, Douglas County, Wisconsin.

In the area covered by these descriptions most of the streets and alleys have been vacated. Where these descriptions abut on streets and alleys which have been vacated the title of Lake Superior Refining Co. extends to the center of such street or alley.

Also all buildings, structures, fixtures, machinery, equipment and tools comprising and used in and about the conduct and operation of the oil refinery of Lake Superior Refining Co., located upon the tracts of land above described or otherwise, and including but not limited to the following, to-wit:

1. STORAGE	CAPACITY (BBLs)	CONSTRUCTION
<u>Present Tank Nos.</u>		
1, 2, 3 and 4	1,000 each	Welded
5 and 6	1,200 each	Welded
7, 8, 9, 10, 11 and 12	2,600 each	Welded
13 and 14	3,500 each	Welded
15 (formerly 62)	5,000	Welded
21 and 22	25,000 each	Welded
25, 26 and 27	217,000 each	Welded
30, 31, 32, 33, 34 and 35	5,000 each	Bolted
36 and 37	50,000 each	Welded
38 and 39	15,000 each	Welded

<u>STORAGE</u>	<u>CAPACITY (BBLs)</u>	<u>CONSTRUCTION</u>
<u>Present Tank Nos.</u>		
40 and 41	5,000 each	Welded
42	56,000	Welded
50 (F-2)	500	Welded
51	2,300	Welded
52	9,500	Welded
53	20,000	Welded
54	25,000	Welded
60 and 61	5,000 each	Welded
63 and 64	10,000 each	Welded
65 and 66	16,500 each	Welded
67	20,000	Welded
68 and 69	48,000 each	Welded
80 and 81	1,200 each	Welded, insulated
82 and 83	1,800 each	Welded, insulated
84 and 85	2,500 each	Welded, insulated
86 and 87	16,500 each	Welded
88 and 89	35,000 each	Welded
90 and 91	36,000 each	Welded
92, 93, 94	1,700 each	Welded
96	250	Welded
F-1 (formerly B-1)	250	Welded
S-1	600	Welded
S-2	250	Welded

2. PLATFORMING UNIT - NO. 1

- a. Platforming furnace
- b. Reactors (3)
- c. Exchangers - heat
- d. Separator
- e. Compressors (2)
- f. Stabilizing tower
- g. Pumps and controls
- h. Platform control house
- i. Suction drum
- j. Stripper tower
- k. Absorber tower
- l. Amine regenerator

PLATFORMING UNIT - NO. 2

- a. Platforming furnace
- b. Reactors (3)
- c. Unifiners
- d. Exchangers - heat
- e. Compressors (2)
- f. Stabilizing tower
- g. Pumps and controls
- h. Platform control house
- i. Suction drum
- j. Stripper tower

3. CRUDE UNITS NO. 1 AND NO. 2

- a. Crude furnaces (2)
- b. Exchangers - heat
- c. Pumps and controls
- d. Crude Tower A
- e. Crude Tower B
- f. Condenser box and coils
- g. Receivers and caustic scrubbers

4. THERMAL CRACKING UNIT

- a. Cracking furnace
- b. Fractionating tower
- c. Reaction chamber
- d. Flash tower
- e. Stabilizing tower
- f. Exchangers - heat
- g. Condenser box and coils
- h. Pumps and controls
- i. Hot oil pump

5. ASPHALT UNIT

- a. Asphalt furnace
- b. Vacuum tower
- c. Oxidizing tower
- d. Exchangers - heat
- e. Pumps and controls

6. POLYMERIZATION UNIT

- a. Poly furnace
- b. Compressor
- c. Poly tower
- d. Exchanger - heat
- e. 2 Reactors

7. BUILDINGS

- a. Boiler house--contains two 35,000 lbs. per hour steam boilers
- b. Boiler house--contains two 10,000 lbs. per hour steam boilers
- c. Pump and control house
- d. Transfer pump house
- e. Linde treating house
- f. Office building and addition
- g. Warehouse building
- h. Ethyl house
- i. Hot oil pump house
- j. Asphalt control and pump house
- k. Truck loading racks (2)
- l. Employees change house and addition
- m. No. 2 Unit control house

8. RAILROAD SIDINGS

- a. Ethyl unloading siding
- b. Double track crude unloading and product loading siding

Together with all of the Lake Superior Refining Co.'s right, title and interest in and to any and all other buildings, structures, plants, facilities, fixtures and improvements and all other machinery, tools, apparatus, equipment, and all other personal property of whatsoever kind or nature now or hereafter located on the lands above described or located elsewhere and used or useful in connection with the conduct and operation of said refinery and pipe lines located on such lands and also any and all real property, rights, grants, liberties, estates, rights of way, servitudes, easements, franchises, privileges, immunities, consents, permits, patents and patent rights, licenses, leasing agreements, switch track agreements and leasing contracts now owned by Lake Superior Refining Co.

Subject to the rights of Lakehead Pipe Line Company, Inc. regarding some of the above captioned real estate to re-purchase lands conveyed by Lakehead Pipe Line Company, Inc. upon discontinuance of the use of said lands for an oil refinery or allied purposes.

IN WITNESS WHEREOF, the said grantor has caused these presents to be signed by Russell Marks, its President, and attested by J. A. O'Connor, Jr., its Secretary, at El Dorado, Arkansas, and its corporate seal to be hereunto affixed this the 10th day of April, A. D. 1961, to be effective for all purposes as of 7:00 o'clock A. M. on January 1, 1961.

Signed and Sealed in
Presence of:

[Handwritten signature]

[Handwritten signature]

03 91

LAKE SUPERIOR REFINING CO.

By *[Handwritten signature]*

Russell Marks
President.

ATTEST:
[Handwritten signature]

J. A. O'Connor, Jr.
Secretary.

STATE OF ARKANSAS)
(ss.
COUNTY OF UNION)

Personally came before me, this 10th day of April,
A. D. 1961, Russell Marks, President, and J. A. O'Connor, Jr.,
Secretary of the above named corporation, to me known to be the
persons who executed the foregoing instrument, and to me known
to be such President and Secretary of said corporation, and ac-
knowledged that they executed the foregoing instrument as such
officers as the deed of said corporation, by its authority.



William J. Wynne
Notary Public, Union County, Arkansas.
My Commission expires Sept. 1, 1962.

This instrument was drafted by
Paul L. Witkin, Attorney.

4/25/61
J.F. Davis

Office RECORDER OF DEEDS
Franklin County, Ark.
I hereby certify that the foregoing instrument
was filed in this office for record on the 13th
day of April, A. D. 1961.
At 5:00 o'clock P.M., and was
only recorded in book 246
Deeds page 647
By _____
RECORDER OF DEEDS

453215

ATTACHMENT B

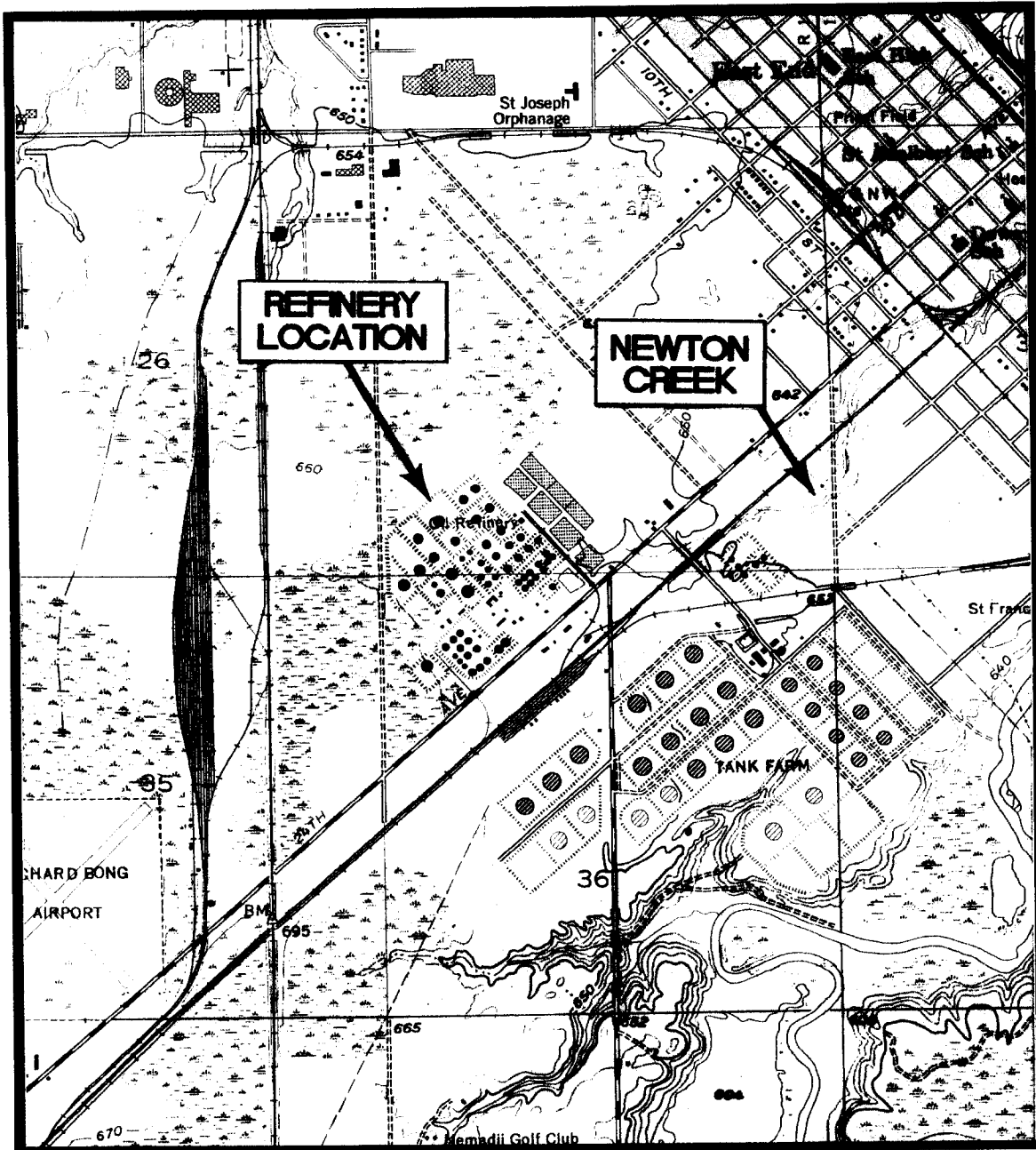
COPY OF RECORDED PLAT MAP

SOUTH 1/2 SEC. 25

SCALE IN FEET
0 10 20 30 40

Prepared By:
Douglas County Clerk's Office, R.W. Erh
29 June 1992





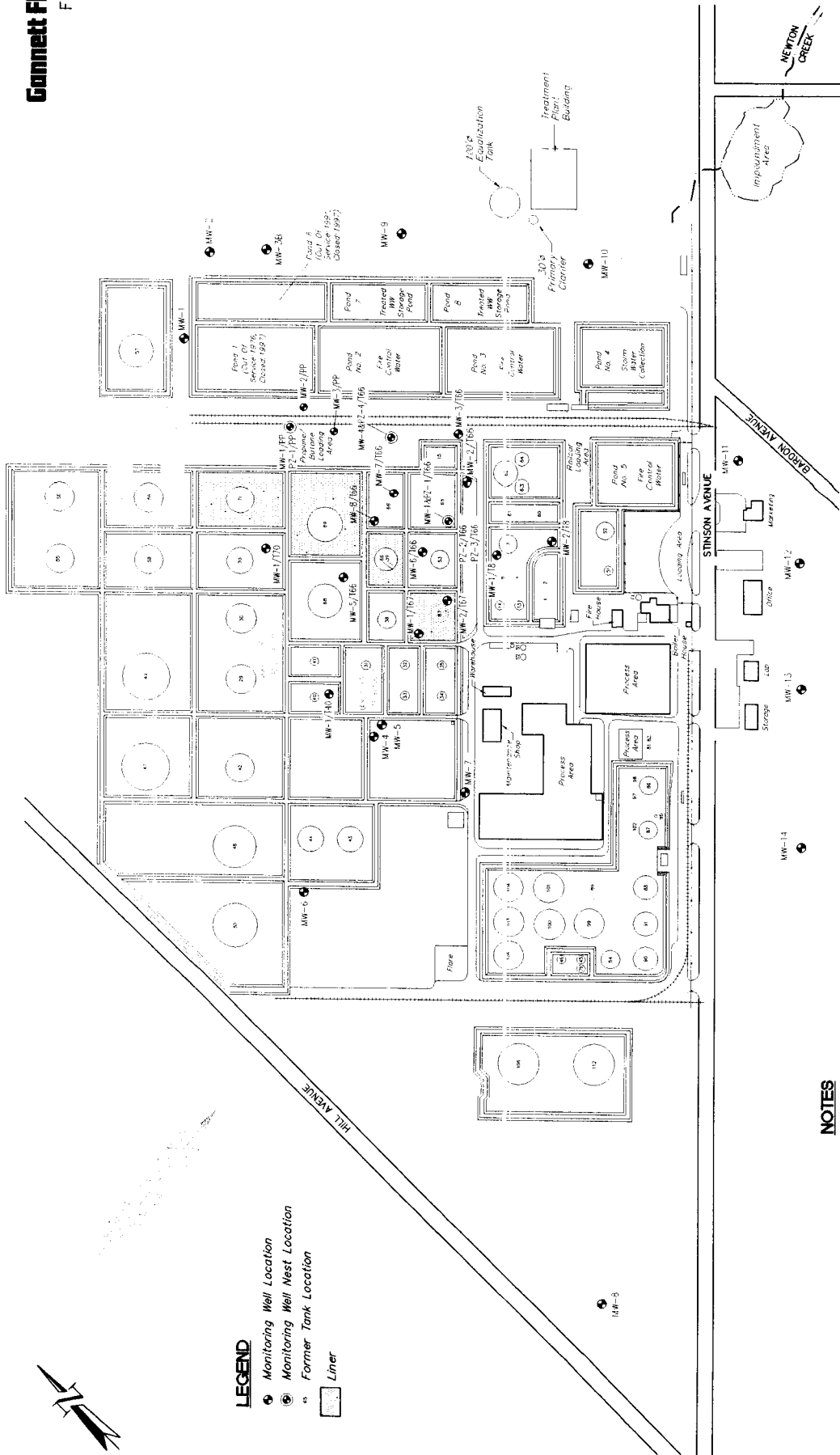
SCALE: 1 INCH = 2000 FEET
CONTOUR INTERVAL = 10 FEET

7.5 MIN TOPOGRAPHIC MAP
SUPERIOR, WISCONSIN
1954
PHOTOREVISED 1983



LOCATION MAP

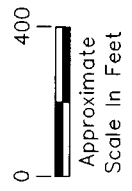
MURPHY OIL USA, INC.
SUPERIOR, WISCONSIN



SITE PLAN
MURPHY OIL USA, INC
SUPERIOR, WISCONSIN

- LEGEND**
- Monitoring Well Location
 - ⊙ Monitoring Well Nest Location
 - Former Tank Location
 - ▭ Liner

- NOTES**
1. Shaded Wells Have Been Abandoned.
 2. Monitoring Well Locations Are Based On Field Sketches From The Field Investigation Reports And Are Approximate.



MURPHY OIL USA, INC.
SUPERIOR, WISCONSIN

TABLE 1
ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES
FROM MONITORING WELL AT TANK 31 (ug/l)

Well I.D. and Sample Date	DRO	GRO	Benzene	Ethylbenzene	Toluene	Xylenes	Trimethylbenzenes	MTBE	Naphthalene	Dissolved Lead											
											Parameter										
MW-1/T31																					
12/17/98	NSC	33*	0.40*	<0.20	<0.20	<0.80	2.1	<0.20	<1.1	<1.0											
04/06/99	NSC	498	195	24.1	<0.5	30.8	18.9	<0.3	<0.27	<1.0											
06/02/99	NSC	284	13.3	2.98	<0.5	5.71	19.5	<0.3	NSC	<1.0											
09/08/99	5980	NSC	17.8	<0.5	<0.4	6.31	7.62	<0.3	<0.08	NSC											
12/09/99	3900	NSC	0.831	<0.5	<0.4	<0.55	1.69	<0.3	<0.08	NSC											
NR 140 PAL	NS	NS	0.5	140	68.6	124	96	12	8	1.5											
NR 140 ES	NS	NS	5	700	343	620	480	60	40	15											

NOTES:

Results reported in units of micrograms per liter (ug/l).

Results in bold exceed applicable NR 140 ES.

Samples collected on 12/17/98 analyzed for VOCs.

Samples collected on all sample dates except 06/02/99 also analyzed for PAHs.

Only detected parameters shown on table.

NSC = No samples collected.

NS = No standard.

* = Estimated concentration below laboratory quantitation level.

MURPHY OIL USA, INC.
SUPERIOR, WISCONSIN

TABLE 2

NATURAL ATTENUATION PARAMETER RESULTS FOR GROUNDWATER SAMPLES
FROM MONITORING WELL AT TANK 31

Well I.D. and Sample Date	Parameter									
	Alkalinity	Dissolved Iron	Dissolved Manganese	Nitrate	Sulfate	Dissolved Oxygen	pH std units	Temperature (C)	Redox Potential (mV)	
MW-1/T31										
12/17/98	436	0.627	0.326	<0.14	16.9	3.3	5.6	9.6	52	
04/06/99	429	0.304	0.573	<0.3	9.78	3.2	7.3	8.4	25	
06/02/99	515	0.238	0.38	<0.3	3.17	<1	NM	7.7	NM	
09/08/99	486	1.14	0.159	<0.3	7.21	1.2	6.9	11.3	10	

NOTES:

Concentrations reported in units of milligrams per liter (mg/l), unless otherwise noted.

NM = Not measured.

MURPHY OIL USA, INC.
SUPERIOR, WISCONSIN

TABLE 3

WATER LEVEL MEASUREMENTS FROM TANK 31 MONITORING WELL

Well I.D. and Sample Date	Depth to Water From Top of Casing (feet)	Depth to Bottom of Well From Top of Casing (feet)	Water Level Elevation (MSL)
MW-1/T31			
11/16/1999	3.86	20.65	657.50
11/18/1999	13.52	20.65	647.84
11/23/1999	15.20	20.65	646.16
11/29/1999	15.26	20.65	646.10
12/03/1999	16.04	20.65	645.32
12/08/1999	15.79	20.65	645.57
12/17/1999	15.23	20.65	646.13
12/29/1999	13.40	20.65	647.96
01/13/2000	12.17	20.65	649.19
01/19/2000	13.44	20.65	647.92
01/28/2000	13.51	20.65	647.85
02/11/2000	12.62	20.65	648.74
02/25/2000	12.24	20.65	649.12
03/02/2000	14.05	20.65	647.31
03/07/2000	15.37	20.65	645.99

NOTE:

MSL for top of casing = 661.36



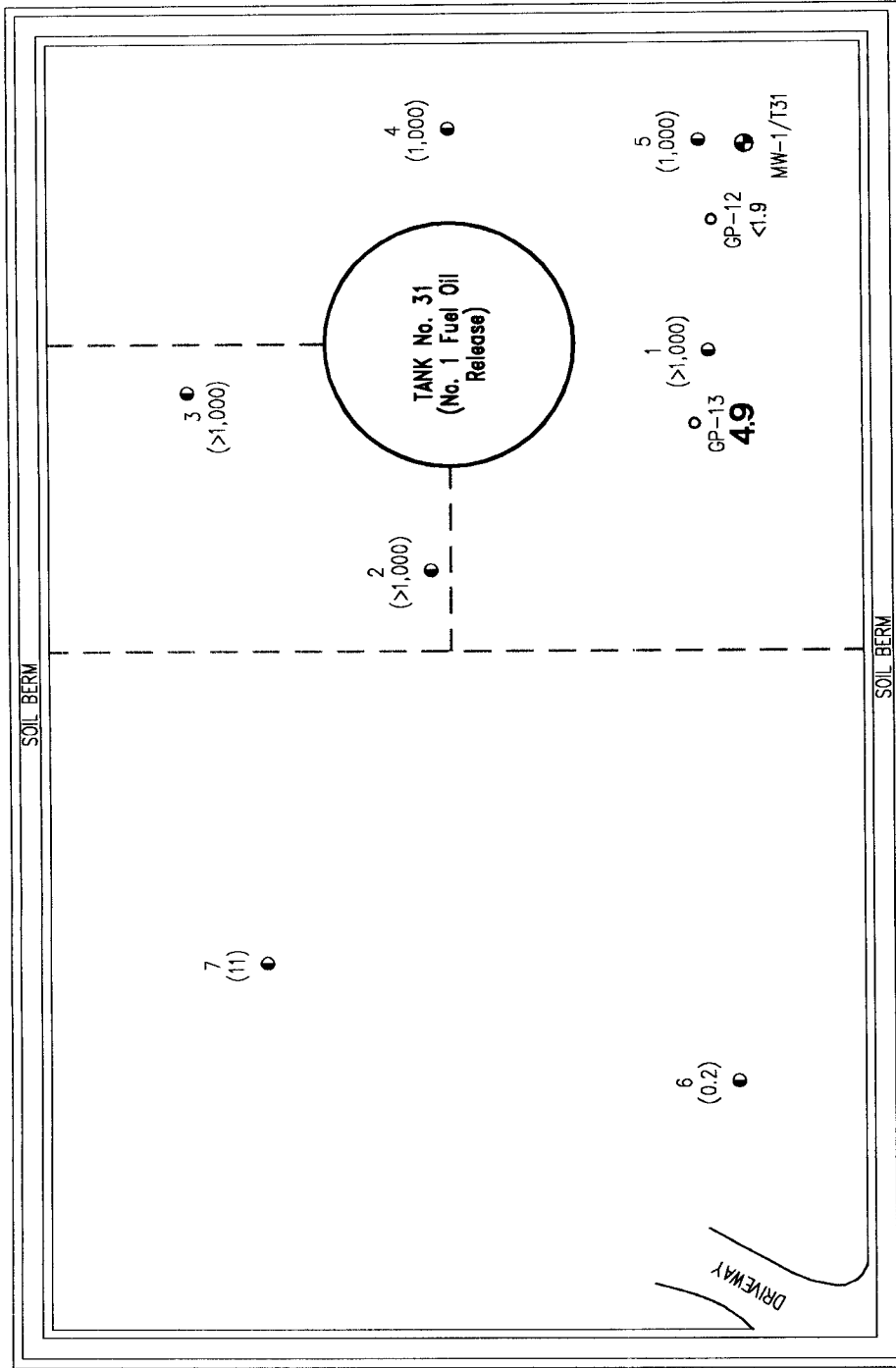
LEGEND

- Gannett Fleming Hand—
Auger Field Screening
- Soil Sample Location
(October 1998)
- Gannett Fleming Geoprobe
Soil Sample Location
(July 1998)
- ⊕ Monitoring Well Location
- - - Aboveground Piping

(0.2)	= FID Reading At 1.5 Foot Depth (ppm)
<1.9	= Benzene Concentration At 1-1.5 Foot Depth (mg/kg)
4.9	= Benzene Concentration At 4.5-5 Foot Depth (mg/kg)
NOTE	Concentrations in BOLD Exceed Generic NR 720 RCLs.

NOTE

Locations Are Approximate
Based On Field Measurements;
Site Not Surveyed

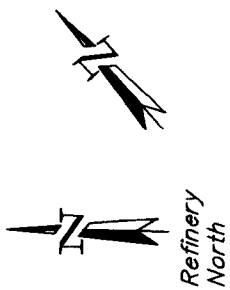
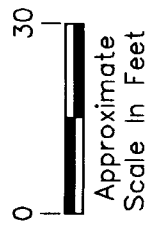


**SAMPLE LOCATIONS AND
FID READINGS AT TANK NO. 31**

MURPHY OIL USA, INC.
SUPERIOR, WISCONSIN

**SOIL SAMPLE LOCATIONS AND
EXTENT OF SOIL IMPACTS**

MURPHY OIL USA, INC.
SUPERIOR, WISCONSIN

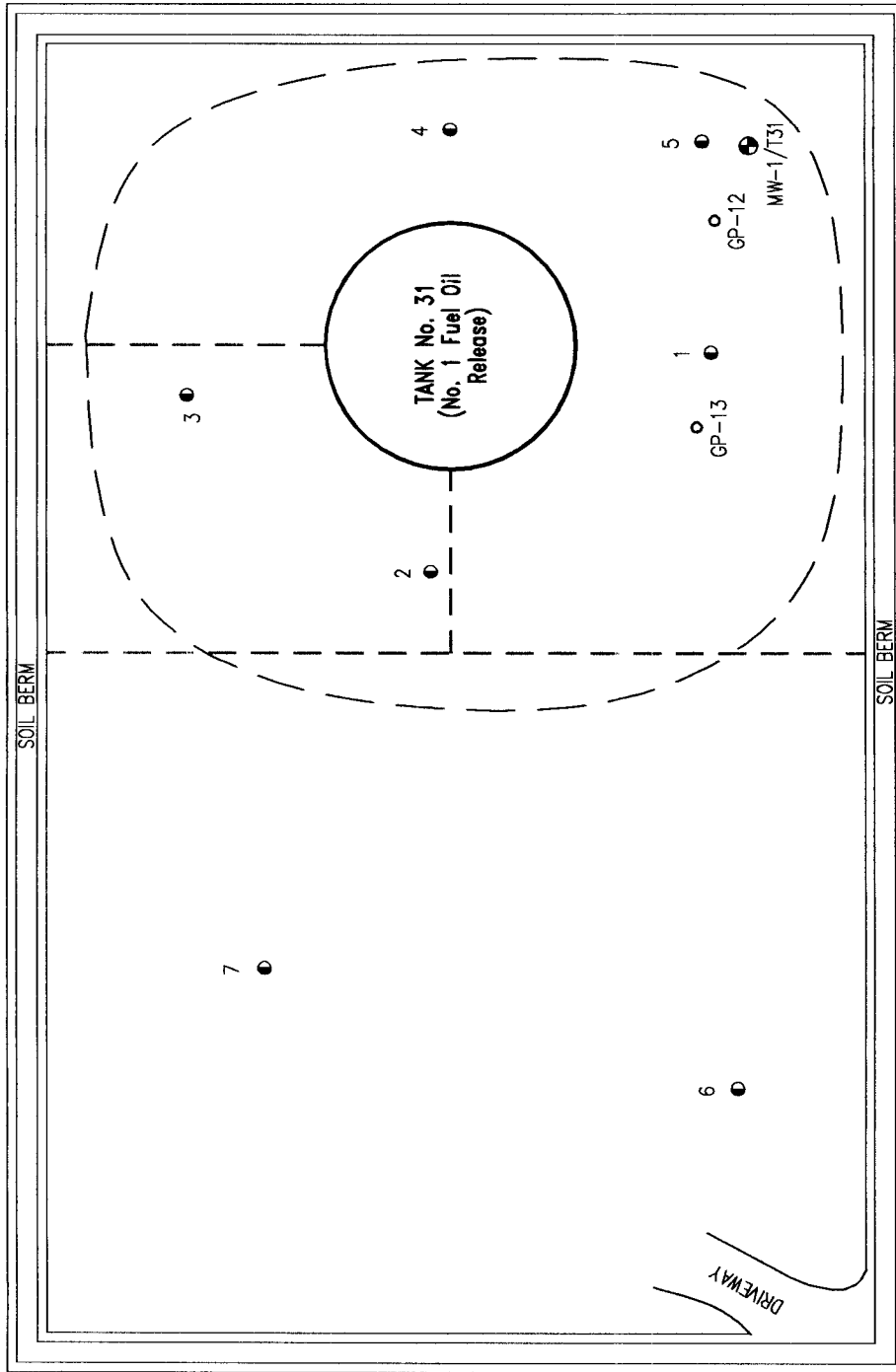


LEGEND

- Gannett Fleming Hand-Auger Field Screening Soil Sample Location (October 1998)
- Gannett Fleming Geoprobe Soil Sample Location (July 1998)
- ⊕ Monitoring Well Location
- - - Aboveground Piping
- () Approximate Horizontal Extent Of Soil Exceeding NR720 and/or NR746 Standards

NOTE

Locations Are Approximate Based On Field Measurements; Site Not Surveyed



MURPHY OIL USA, INC.
SUPERIOR, WISCONSIN

TABLE 4

ANALYTICAL RESULTS FOR SOIL SAMPLES COLLECTED FROM TANK 31 BASIN (mg/kg)

Parameter	Sample I.D. & Sample Depth (ft)		NR 720 RCLs	NR 746 Direct Contact Standards in Upper 4 Feet of Soil Column	NR 746 Indicators of Residual Petroleum Product in Soil Pores
	GP-12 (1-1.5)	GP-13 (4.5-5)			
DRO	930	87	250	NS	NS
GRO	740	120	250	NS	NS
Benzene	<1.9	4.9	0.0055	1.1	8.5
Ethylbenzene	7.4	2.4	2.9	4.6	4.6
Toluene	<1.1	0.39	1.5	38	38
Xylenes	<3.4	2.9	4.1	42	42
MTBE	<0.90	<0.090	NS	NS	NS
Trimethylbenzenes	55	6.5	NS	94	94
Ethylene dibromide (EDB)	<0.70	<0.070	NS	NS	NS
Detected Polycyclic Aromatic Hydrocarbons					
Acenaphthylene	<0.051	0.061	NS	NS	NS
Fluoranthene	<0.0049	0.14	NS	NS	NS
Fluorene	0.7	<0.0086	NS	NS	NS
Naphthalene	3.2	0.12	NS	2.7	2.7
1-Methyl Naphthalene	5.2	0.2	NS	NS	NS
2-Methyl Naphthalene	7.6	0.48	NS	NS	NS
Phenanthrene	0.45	0.057	NS	NS	NS
Pyrene	<0.0062	0.13	NS	NS	NS

NOTES:

Samples collected on July 21, 1998.

Results reported in units of milligrams per kilogram (mg/kg) on a dry-weight basis.

Results in bold exceed applicable generic NR 720 RCL (residual contaminant level) and/or NR 746 standard.

NS = No standard.

ATTACHMENT C

**SIGNED STATEMENT THAT LEGAL DESCRIPTION
OF PROPERTY IS COMPLETE AND ACCURATE**

MURPHY OIL USA, INC.
2400 STINSON AVENUE
SUPERIOR, WISCONSIN
TANK 31 RELEASE SITE
BRRTS No.: 02-16-221933
COMM No.: 54880-0456-07-R

I hereby state that the legal description of the Murphy Oil refinery in Superior as stated in the deed dated January 1, 1961, and included as Attachment A to this GIS Registry submittal is complete and accurate for all the property associated with the Tank 31 release site that has soil contamination that exceeded an NR 720 RCL and/or an NR 746 direct-contact standard at the time that closure was requested.

Elizabeth Lundmark
Printed Name

manager - ENV + PSM
Title

Elizabeth Lundmark
Signature

10/1/03
Date