GIS REGISTRY
Cover Sheet

July, 2008
(RR 5367)

Source Property Information

CLOSURE DATE: Jun 25, 2008

BRRTS #: **02-08-000648**

FID #:

ACTIVITY NAME: Chilton Coop Service Oil Co

DATCP #:

PROPERTY ADDRESS: 420 Clay St

COMM #: 53014019027A

MUNICIPALITY: Chilton

PARCEL ID #: 16575

***WTM COORDINATES:**

X: **668103** Y: **397061**

** Coordinates are in WTM83, NAD83 (1991)*

WTM COORDINATES REPRESENT:

- (●) Approximate Center Of Contaminant Source
- ( ) Approximate Source Parcel Center

Please check as appropriate: (BRRTS Action Code)

Contaminated Media:

- [x] Groundwater Contamination > ES *(236)*
  - [ ] Contamination in ROW
  - [ ] Off-Source Contamination

  *(**note:** for list of off-source properties see "Impacted Off-Source Property")*

- [x] Soil Contamination > *RCL or **SSRCL *(232)*
  - [ ] Contamination in ROW
  - [ ] Off-Source Contamination

  *(**note:** for list of off-source properties see "Impacted Off-Source Property")*

Land Use Controls:

- [ ] Soil: maintain industrial zoning *(220)*

  *(**note:** soil contamination concentrations between residential and industrial levels)*

- [ ] Structural Impediment *(224)*
- [ ] Site Specific Condition *(228)*
- [x] Cover or Barrier *(222)*

  *(**note:** maintenance plan for groundwater or direct contact)*

- [ ] Vapor Mitigation *(226)*
- [ ] Maintain Liability Exemption *(230)*

  *(**note:** local government or economic development corporation)*

Monitoring wells properly abandoned? *(234)*

(●) Yes ( ) No ( ) N/A

** Residual Contaminant Level*
***Site Specific Residual Contaminant Level*

GIS Registry Checklist

Form 4400-245 (R 4/08)

This Adobe Fillable form is intended to provide a list of information that is required for evaluation for case closure. It is to be used in conjunction with Form 4400-202, Case Closure Request. The closure of a case means that the Department has determined that no further response is required at that time based on the information that has been submitted to the Department.

NOTICE: Completion of this form is mandatory for applications for case closure pursuant to ch. 292, Wis. Stats. and ch. NR 726, Wis. Adm. Code, including cases closed under ch. NR 746 and ch. NR 726. The Department will not consider, or act upon your application, unless all applicable sections are completed on this form and the closure fee and any other applicable fees, required under ch. NR 749, Wis. Adm. Code, Table 1 are included. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than reviewing closure requests and determining the need for additional response action. The Department may provide this information to requesters as required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

BRRTS #: 02-08-000648 PARCEL ID #: 16575

ACTIVITY NAME: Chilton Coop Service Oil Co WTM COORDINATES: X: 668103 Y: 397061

CLOSURE DOCUMENTS (the Department adds these items to the final GIS packet for posting on the Registry)

- [x] **Closure Letter**
- [x] **Maintenance Plan** (*if activity is closed with a land use limitation or condition (land use control) under s. 292.12, Wis. Stats.*)
- [x] **Conditional Closure Letter**
- [ ] **Certificate of Completion (COC)** for VPLE sites

SOURCE LEGAL DOCUMENTS

- [x] **Deed:** The most recent deed as well as legal descriptions, for the **Source Property** (where the contamination originated). Deeds for other, off-source (off-site) properties are located in the **Notification** section.
  Note: *If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.*
- [x] **Certified Survey Map:** 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.* (lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).

  Figure #: **Title:**
- [x] **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description accurately describes the correct contaminated property.

MAPS (meeting the visual aid requirements of s. NR 716.15(2)(h))

Maps must be no larger than 8.5 x 14 inches unless the map is submitted electronically.

- [x] **Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all parcels. If groundwater standards are exceeded, include the location of all potable wells within 1200 feet of the site.
  Note: *Due to security reasons municipal wells are not identified on GIS Packet maps. However, the locations of these municipal wells must be identified on Case Closure Request maps.*

  Figure #: 1 **Title: Site Location Diagram**
- [ ] **Detailed Site Map:** A map that shows all relevant features (buildings, roads, individual property boundaries, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Levels (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.

  Figure #: **Title:**
- [x] **Soil Contamination Contour Map:** For sites closing with residual soil contamination, <u>this map is to show the location of all contaminated soil and a single contour</u> showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL)as determined under s. NR 720.09, 720.11 and 720.19.

  Figure #: 3 **Title: Estimated Area of Unsaturated Zone Soil Impacts**

BRRTS #: 02-08-000648 ACTIVITY NAME: Chilton Coop Service Oil Co

MAPS (continued)

☐ **Geologic Cross-Section Map:** A map showing the source location and vertical extent of residual soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL). If groundwater contamination exceeds a ch. NR 140 Enforcement Standard (ES) when closure is requested, show the source location and vertical extent, water table and piezometric elevations, and locations and elevations of geologic units, bedrock and confining units, if any.

Figure #: **Title:**

Figure #: **Title:**

☒ **Groundwater Isoconcentration Map:** For sites closing with residual groundwater contamination, this map shows the horizontal extent of all groundwater contamination exceeding a ch. NR140 Preventive Action Limit (PAL) and an Enforcement Standard (ES). Indicate the direction and date of groundwater flow, based on the most recent sampling data.
Note: *This is intended to show the total area of contaminated groundwater.*

Figure #: 2 **Title: Estimated Extent of Groundwater Impacts**

☒ **Groundwater Flow Direction Map:** A map that represents groundwater movement at the site. If the flow direction varies by more then 20° over the history of the site, submit 2 groundwater flow maps showing the maximum variation in flow direction.

Figure #: 1 **Title: Groundwater Contour Map (5/18/07)**

Figure #: **Title:**

TABLES (meeting the requirements of s. NR 716.15(2)(h)(3))

Tables must be no larger than 8.5 x 14 inches unless the table is submitted electronically. Tables must not contain shading and/or cross-hatching. The use of **BOLD** or *ITALICS* is acceptable.

☒ **Soil Analytical Table:** A table showing remaining soil contamination with analytical results and collection dates.
Note: This is one table of results for the contaminants of concern. Contaminants of concern are those that were found during the site investigation, that remain after remediation. It may be necessary to create a new table to meet this requirement.

Table #: 1 **Title: Summary of Soil Analytical Results**

☒ **Groundwater Analytical Table:** Table(s) that show the most recent analytical results and collection dates, for all monitoring wells and any potable wells for which samples have been collected.

Table #: 2 **Title: Summary of Groundwater Analytical Results**

☒ **Water Level Elevations:** Table(s) that show the previous four (at minimum) water level elevation measurements/dates from all monitoring wells. If present, free product is to be noted on the table.

Table #: 1 **Title: Field Sampling Summary**

IMPROPERLY ABANDONED MONITORING WELLS

For each monitoring well not properly abandoned according to requirements of s. NR 141.25 include the following documents.
Note: *If the site is being listed on the GIS Registry for only an improperly abandoned monitoring well you will only need to submit the documents in this section for the GIS Registry Packet.*

☒ **Not Applicable**

☐ **Site Location Map:** A map showing all surveyed monitoring wells with specific identification of the monitoring wells which have not been properly abandoned.
Note: *If the applicable monitoring wells are distinctly identified on the Detailed Site Map this Site Location Map is not needed.*

Figure #: **Title:**

☐ **Well Construction Report:** Form 4440-113A for the applicable monitoring wells.

☐ **Deed:** The most recent deed as well as legal descriptions for each property where a monitoring well was not properly abandoned.

☐ **Notification Letter:** Copy of the notification letter to the affected property owner(s).

BRRTS #: 02-08-000648 ACTIVITY NAME: Chilton Coop Service Oil Co

NOTIFICATIONS

Source Property

- ☐ **Letter To Current Source Property Owner:** If the source property is owned by someone other than the person who is applying for case closure, include a copy of the letter notifying the current owner of the source property that case closure has been requested.
- ☐ **Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying current source property owner.

Off-Source Property

Group the following information per individual property and label each group according to alphabetic listing on the "Impacted Off-Source Property" attachment.

- ☐ **Letter To "Off-Source" Property Owners:** Copies of all letters sent by the Responsible Party (RP) to owners of properties with groundwater exceeding an Enforcement Standard (ES), and to owners of properties that will be affected by a land use control under s. 292.12, Wis. Stats.
  Note: *Letters sent to off-source properties regarding residual contamination must contain standard provisions in Appendix A of ch. NR 726.*

  Number of "Off-Source" Letters:

- ☐ **Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying any off-source property owner.
- ☐ **Deed of "Off-Source" Property:** The most recent deed(s) as well as legal descriptions, for all affected deeded **off-source property(ies).** This does not apply to right-of-ways.
  Note: *If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.*
- ☐ **Letter To "Governmental Unit/Right-Of-Way" Owners:** Copies of all letters sent by the Responsible Party (RP) to a city, village, municipality, state agency or any other entity responsible for maintenance of a public street, highway, or railroad right-of-way, within or partially within the contaminated area, for contamination exceeding a groundwater Enforcement Standard (ES) and/or soil exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL).

  Number of "Governmental Unit/Right-Of-Way Owner" Letters:

commerce.wi.gov
Wisconsin
Department of Commerce

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
9316 North 107th Street
Milwaukee, Wisconsin 53224-1121
TDD #: (608) 264-8777
Fax #: (414) 357-4700
Jim Doyle, Governor
Jack L. Fischer, A.I.A., Secretary

June 25, 2008

Mr. Steve Zutz
Agri-Partners Cooperative
438 West Ryan
Brillion, WI 54110

RE: **Final Closure with Land Use Limitation**

Commerce # 53014-0190-27-A DNR BRRTS # 02-08-000648
Chilton Coop, 428 Clay Street (28 Adams Street), Chilton

Dear Mr. Zutz:

The Wisconsin Department of Commerce (Commerce) has determined that this site does not pose a significant threat to human health and the environment as long as current and subsequent property owner(s) adhere to the following limitations:

The barrier cap must be maintained in accordance with the enclosed maintenance plan.

Commerce has the authority per section 292.12(2), Wis. Stats., to require the maintenance of a barrier cap at this property. Failure to adhere to this limitation may result in financial penalties from $10 to $5,000 per day in accordance with section 292.99(1), Wis. Stats. Commerce may conduct inspections to ensure compliance with the maintenance plan. In the future, you may request that Commerce review *new* information to determine if the cap requirement can be changed or removed.

This site is now listed as "closed" on the Commerce database and will be included on the Department of Natural Resources (DNR) Geographic Information System (GIS) Registry of Closed Remediation Sites to address residual soil and groundwater contamination. It is in your best interest to keep all documentation related to the environmental activities at your site.

Please note that if contaminated soil is excavated 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 protect Wisconsin's environment. If you have any questions, please contact me in writing at the letterhead address or by telephone at (414) 357-4705.

Sincerely,

Monica Weis

Monica L. Weis
Senior Hydrogeologist
Site Review Section

Enclosure

cc: Mr. Paul Garvey, STS Consultants, Ltd.

CRUSHED STONE PAVEMENT COVER AND BUILDING BARRIER MAINTENANCE PLAN

March 5, 2008

Property Located at:

428 Clay Street

WDNR BRRTS/Activity #02-08-000648

LEGAL DESCRIPTION: CHILTON CENTER PLAT LOT 5 BLK 7 and CHILTON CENTER PLAT LT 6 BLK 7&PRT VAC.ST-COM SW/C LT6,W33',N TO PT 33'E NE/C LT12 BLK8,E33',S TO POB-ASSES INCL #16578

[PARCEL ID#s 16576 & 16577]

Introduction

This document is the Maintenance Plan for a crushed stone/soil barrier cover or "slab-on-grade" storage building at the above-referenced property in accordance with the requirements of s. NR 724.13(2), Wisconsin Administrative Code. The maintenance activities relate to the existing slab-on-grade storage buildings and crushed stone surfaces occupying the area over the contaminated soil on-site. The contaminated soil is impacted by petroleum-related compounds including: benzene, toluene, ethylbenzene, xylenes, trimethylbenzenes, methyl-tert-butyl ether (MTBE), and naphthalene. The location of the crushed stone soil barrier surface to be maintained in accordance with this Maintenance Plan is identified on the attached map (Figure 4).

Cover and Building Barrier Purpose

The crushed stone pavement surfaces and the building foundations over the contaminated soil serve as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health. Based on the current and future use of the property, the barrier should function as intended unless disturbed.

Annual Inspection

The crushed stone pavement surfaces and building foundations overlying the soil as depicted in Figure 4 will be inspected once a year, normally in the spring after snow and ice are gone, for deterioration, cracks, and other potential problems that can cause exposure to underlying soils. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age, and other factors. Any area where soils have become or are likely to become exposed will be documented. A log of the inspections and any repairs will be maintained by the property owner and is included as Exhibit A, Cap Inspection Log. The log will include recommendations for necessary repair of any areas where underlying soils are exposed. Once repairs are completed, they will be documented in the inspection log. A copy of the inspection log will be made available for viewing to Commerce or other interested parties.

Maintenance Activities

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching and filling operations or they can include larger resurfacing or construction operations. In the event that necessary maintenance activities expose the underlying soil, the owner must inform maintenance workers of the direct contact exposure hazard and provide them with appropriate personal protection equipment ("PPE"). The owner must also sample any soil that is excavated from the site prior to disposal to ascertain if contamination remains. The soil must be treated, stored, and disposed of by the owner in accordance with applicable local, state, and federal law.

In the event the crushed stone barrier and/or the building overlying the contaminated soil are removed or replaced, the replacement barrier will be subject to the same maintenance and

inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by Commerce or its successor.

The property owner, in order to maintain the integrity of the paved surfaces and/or the building, will maintain a copy of this Maintenance Plan and make it available to all interested parties (i.e., on-site employees, contractors, future property owners, etc.) for viewing.

Amendment or Withdrawal of Maintenance Plan

This Maintenance Plan can be amended or withdrawn by the property owner and its successors with the written approval of Commerce.

Contact Information
March 2008

Site Owner and Operator:
Calumet Storage Systems, LLC
Attn: Mike Boll
100 West Main Street
Chilton, Wisconsin 52014
T 920.849.9301

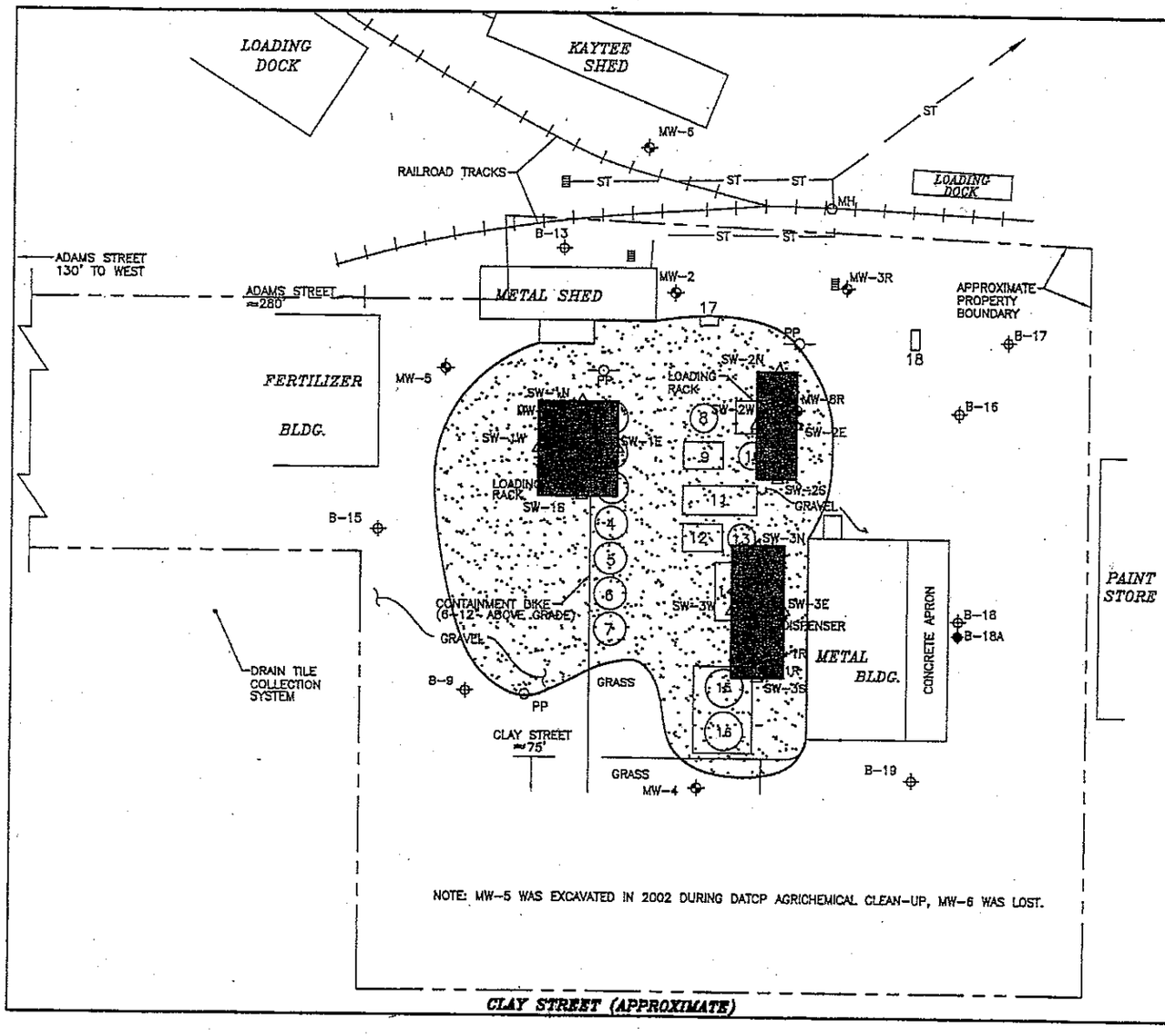
Consultant:
Paul Garvey
STS
1035 Kepler Drive
Green Bay, Wisconsin 54311
T 920.468.1978

Commerce:
Monica Weis
9316 North 107th Street
Milwaukee, Wisconsin 53224
T 414.357.4705

Exhibit A

BARRIER INSPECTION LOG

Inspection Date	Inspector	Condition of Cap	Recommendations	Have Recommendations from previous inspections been implemented?



NOTE: MW-5 WAS EXCAVATED IN 2002 DURING DATCP AGRICHEMICAL CLEAN-UP, MW-6 WAS LOST.

40 0 40
SCALE 1"= 40' FEET

N

LEGEND

- PP POWER POLE
- MH MANHOLE
- STORM DRAIN INLET
- ST STORM SEWER LOCATION
- MONITORING WELL LOCATION
- SOIL BORING LOCATION
- TEMPORARY WELL LOCATION
- SOIL SOURCE REMOVAL AREA SIDEWALL SOIL SAMPLES
- EXCAVATION AREA (6-FOOT DEPTH)
- 3/4-INCH CRUSHED STONE SOIL BARRIER (6" DEPTH)

NOTE: NO EVIDENCE OF PETROLEUM IMPACT IN SOIL BORING LOCATIONS INDICATED ON DRAWING.

FORMER TANKS

TANK No.	CAPACITY (GALLONS)	CONTENTS
1	12,000	FUEL OIL
2	14,000	FUEL OIL
3	14,000	FUEL OIL
4	17,000	FUEL OIL
5	14,000	UNL. GAS
6	16,500	UNL. GAS
7	16,500	UNL. GAS
8	24,500	FUEL OIL
9	24,500	DIESEL
10	9,500	EMPTY
11	7,000	FUEL OIL
12	11,000	DIESEL
13	17,500	EMPTY
14	14,000	EMPTY
15	11,000	EMPTY
16	17,000	UNL. GAS
17	550	MIN. SPIRITS
18	1,000	DIESEL

NOTES: 1. MAP MODIFIED FROM SPCC PLAN (DATED 8/21/95) PROVIDED BY COOPERATIVE SERVICE OIL COMPANY.

		DATE
DRAWN BY	JMR	09-25-02
CHECKED BY	ECS	09-25-02
APPROVED BY		DATE

CADFILE X:\PROJECTS\Dwg2002\21794\WA\ 42179WA004.dwg 01/28/2003 15:

COOPERATIVE SERVICE OIL COMPANY
BULK PETROLEUM STORAGE FACILITY
CHILTON, WISCONSIN

CRUSHED STONE SOIL BARRIER

STS Consultants Ltd. Consulting Engineers

STS PROJECT NO. 21794WA

STS PROJECT FILE

SCALE 1"=40'

FIGURE 4

commerce.wi.gov
Wisconsin
Department of Commerce

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
9316 North 107th Street
Milwaukee, Wisconsin 53224-1121
TDD #: (608) 264-8777
Fax #: (414) 357-4700
Jim Doyle, Governor
Jack L. Fischer, A.I.A., Secretary

March 6, 2008

Mr. Steve Zutz
Agri-Partners Cooperative
117 Jackson Street
Brillion, WI 54110

RE: **Case Closure Consideration with Proposed Land Use Limitation**

Commerce # 53014-0190-27-A DNR BRRTS # 02-08-000648
Chilton Coop, 428 Clay Street (28 Adams Street), Chilton

Dear Mr. Zutz:

The Wisconsin Department of Commerce (Commerce) has reviewed the request for case closure prepared by your consultant, STS Consultants, Ltd., for the site referenced above. It is understood that residual soil and groundwater contamination remains on site. This letter serves as written notice that no further investigation or remedial action is necessary.

Abandonment Requirements

All monitoring wells must be properly abandoned within 60 days and the appropriate documentation forwarded to Commerce at the letterhead address within 120 days of the date of this letter. Noncompliance with the abandonment requirement and deadline can result in enforcement action and financial penalties. A final closure letter will be sent after the abandonment requirements have been met.

Land Use Limitation Requirement

Commerce has determined that this site does not pose a significant threat to the environment and human health as long as the barrier cap at this property is maintained. Residual petroleum concentrations in soil exceeding standards for the protection of human health from direct contact with contaminated soil remain in the vicinity of the former aboveground storage tanks and former loading racks. Therefore, the existing barrier cap consisting of six inches of crushed stone must be maintained in accordance with the maintenance plan provided to prevent direct contact with shallow contaminated soil. A site figure that indicates the approximate area with shallow residual petroleum contamination in soil and the barrier cap maintenance plan are enclosed for your review.

This limitation must be adhered to by the current property owner and any subsequent owner. Failure to adhere to this restriction may result in financial penalties from $10 to $5,000 per day in accordance with section 292.99(1), Wis. Stats.

Acceptance of the limitation to be imposed on the property makes it unnecessary to conduct additional soil remediation activities on the property at this time. In the future, you may request that Commerce review any new information to determine if the barrier requirement or maintenance plan can be changed or removed. If you do not want this limitation on your property, you must contact the undersigned to

determine what remedial activities will be required, at your own expense, to close this case without the cap maintenance requirement.

Claim Submittal Requirement

Timely filing of your final PECFA claim (if applicable) is encouraged. If your claim is not received within 120 days of the date of this letter, interest costs incurred after 60 days of the date of this letter will not be eligible for PECFA reimbursement.

Thank you for your efforts to protect Wisconsin's environment. If you have any questions, please contact me in writing at the letterhead address or by telephone at (414) 357-4705.

Sincerely,

Monica Weis

Monica L. Weis
Senior Hydrogeologist
Site Review Section

Enclosure

cc: Mike Boll, Calumet Storage Systems, LLC, 100 West Main Street, Chilton, WI 53014
Paul Garvey, STS Consultants, Ltd.

Document No.
235111

WARRANTY DEED

This Space Reserved for Recording Data

REGISTER'S OFFICE
CALUMET COUNTY, WI
Received for Record
Date 11-19-93
Time 3:00 P.M.
Rec. No. 235111
Fee $10.00
Page 36
Donna Schommer
Register
(8/10-93)

Return To:
Co-operative Service Oil Co.
308 East Grand Ave.
Chilton, WI 53014

Winkler Oil Company, a Wisconsin corporation, conveys and warrants to Co-operative Service Oil Co. the following described real estate in Calumet County, State of Wisconsin:

Lots Number Three (3) and Four (4) in Block Number Seven (7), Chilton Center, in the City of Chilton, Calumet County, Wisconsin according to the recorded plat thereof.

AND

Lot Number Five (5) in Block Number Seven (7) Chilton Center, in the City of Chilton, Calumet County, Wisconsin according to the recorded plat thereof.

Tax Key No. 211-02-070304

Exception to warranties: Municipal and zoning ordinances and all easements and restrictions of record.

Dated this 18th day of November, 1993.

WINKLER OIL CO., INC.

TRANSFER

$ 165.00
FEE

BY: Kathy Klasen
KATHY KLASEN, Vice President

Don L. Winkler
DON L. WINKLER, Secretary

AUTHENTICATION

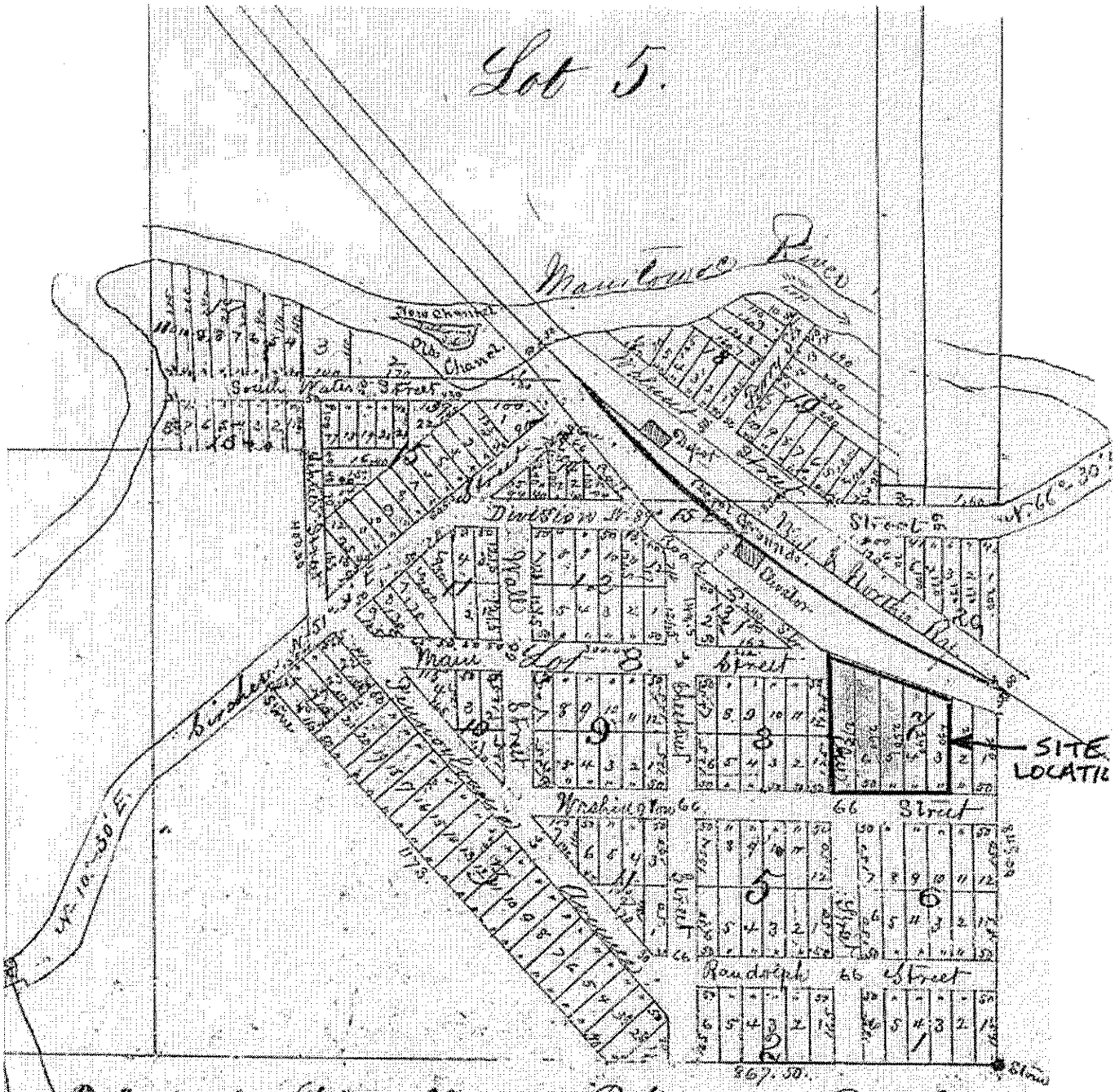
Signatures of Kathy Klasen, Vice-President, and Don L. Winkler, Secretary of the above named corporation authenticated this 18th day of November, 1993.

James P. Burnett
JAMES P. BURNETT
Title: Member, State Bar of Wisconsin

This Instrument was Drafted by
Attorney James P. Burnett.

J 2025 1 36

I CERTIFY THAT THIS DOCUMENT HAS MICROFILMED ACCORDING TO WI STATUTE 16.61(7).
Donna Schommer
Calumet County Register of Deeds



For Vacation of Lots 5 & 7 formerly Elroy see Vol. B Miscellaneous Record Page 326
For Vacation of Laidlaw St see file

STATEMENT OF PROPERTY LEGAL DESCRIPTION

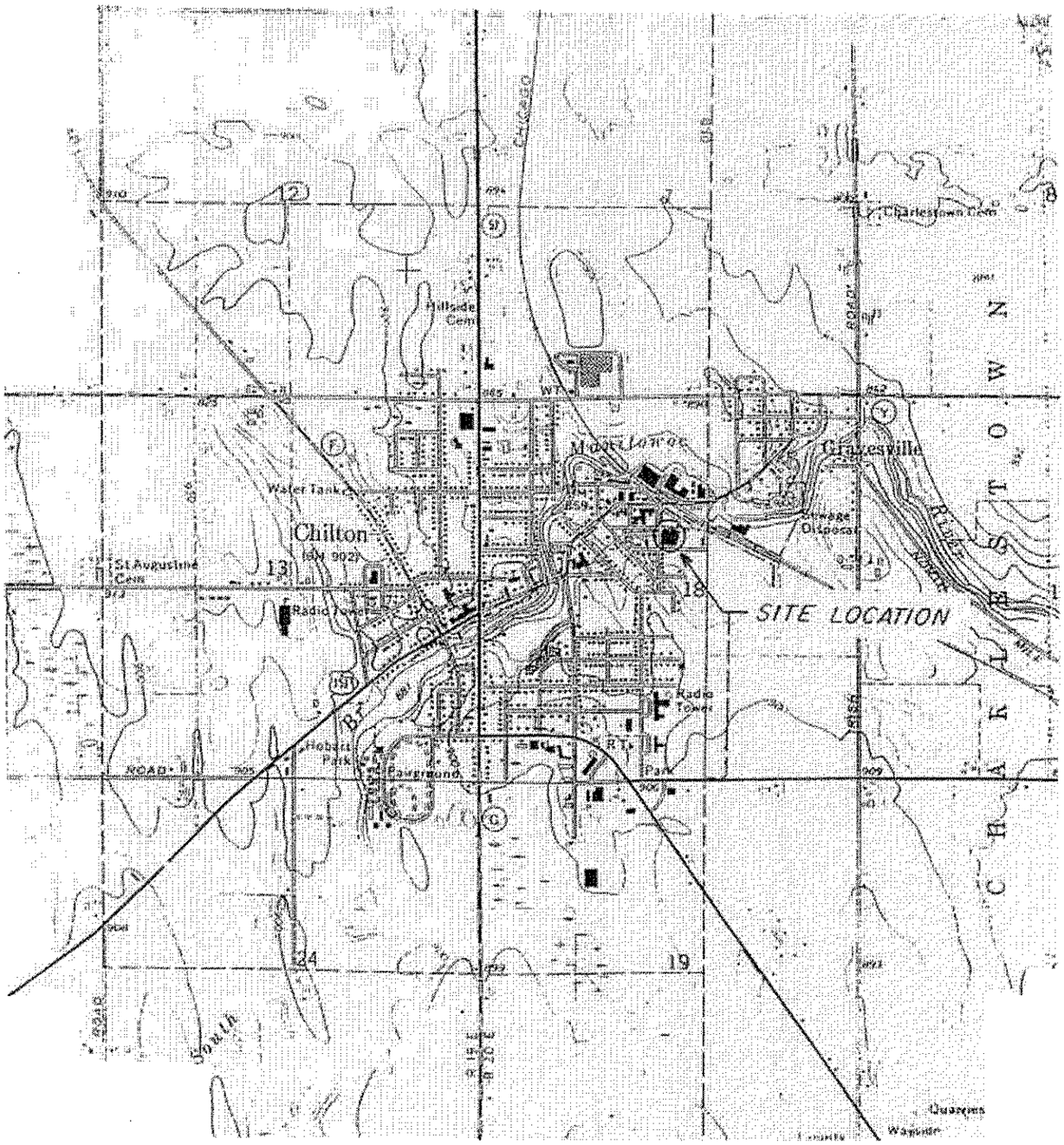
As required by s.NR 726.05(3)f of the Wisconsin Administrative Code, I am providing this signed statement that to the best of my knowledge the legal descriptions that are attached to this statement are complete and accurate for the property located at 428 Clay Street, Chilton, Wisconsin.

X Steven R. Zutz 3-17-03
(Signature) (Date)

Steven R. Zutz
(Name)

General Mgr.
(Title)

Cooperative Service Oil Co.
(Company)



SOURCE: CHILTON, WISCONSIN 7.5 MINUTE QUADRANGLE, DATED – 1974.

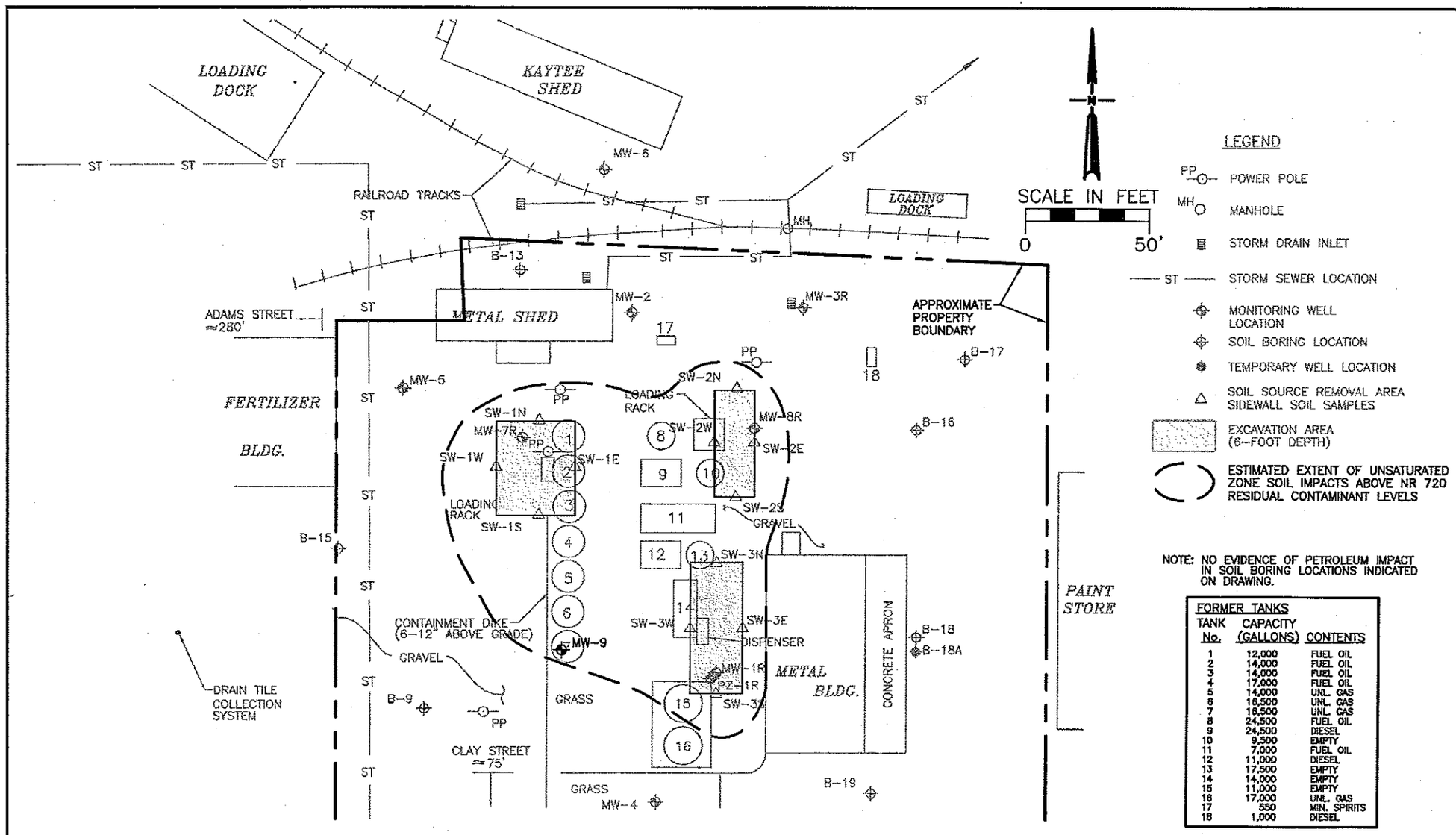
STS Consultants Ltd.
Consulting Engineers

PROJECT/CLIENT

COOPERATIVE SERVICE OIL COMPANY
BULK PETROLEUM STORAGE FACILITY
CHILTON, WISCONSIN

SITE LOCATION DIAGRAM

DRAWN BY	J.R.L.	9-27-95
CHECKED BY	M.J.C.	9-27-95
APPROVED BY		
SCALE 1" = 2000'	FIGURE NO. 1	
STS DRAWING NO. 21794W		



LEGEND

- PP — POWER POLE
- MH — MANHOLE
- STORM DRAIN INLET
- ST — STORM SEWER LOCATION
- MONITORING WELL LOCATION
- SOIL BORING LOCATION
- TEMPORARY WELL LOCATION
- SOIL SOURCE REMOVAL AREA SIDEWALL SOIL SAMPLES
- EXCAVATION AREA (6-FOOT DEPTH)
- ESTIMATED EXTENT OF UNSATURATED ZONE SOIL IMPACTS ABOVE NR 720 RESIDUAL CONTAMINANT LEVELS

NOTE: NO EVIDENCE OF PETROLEUM IMPACT IN SOIL BORING LOCATIONS INDICATED ON DRAWING.

FORMER TANKS

TANK No.	CAPACITY (GALLONS)	CONTENTS
1	12,000	FUEL OIL
2	14,000	FUEL OIL
3	14,000	FUEL OIL
4	17,000	FUEL OIL
5	14,000	UNL. GAS
6	16,500	UNL. GAS
7	16,500	UNL. GAS
8	24,500	FUEL OIL
9	24,500	DIESEL
10	9,500	EMPTY
11	7,000	FUEL OIL
12	11,000	DIESEL
13	17,500	EMPTY
14	14,000	EMPTY
15	11,000	EMPTY
16	17,000	UNL. GAS
17	550	MIN. SPIRITS
18	1,000	DIESEL

NOTES: 1. MAP MODIFIED FROM SPCC PLAN (DATED 8/21/95) PROVIDED BY COOPERATIVE SERVICE OIL COMPANY.

NOTES: 1. MW-5 WAS EXCAVATED IN 2002 DURING DATCP AGRICHEMICAL CLEAN-UP, MW-6 WAS LOST.

2. SATURATED ZONE HAS BEEN DOCUMENTED WITHIN 1.5 FEET OF GROUND SURFACE IN MONITORING WELLS MW-2, MW-3, AND MW-5.

DESIGNED BY P.M.G.	DATE 03-05-08	
DRAWN BY J.M.R.	DATE 03-05-08	
APPROVED BY	DATE	
CADFILE		
XREF		

COOPERATIVE SERVICE OIL COMPANY BULK PETROLEUM STORAGE FACILITY CHILTON, WISCONSIN

ESTIMATED AREA OF UNSATURATED ZONE SOIL IMPACTS

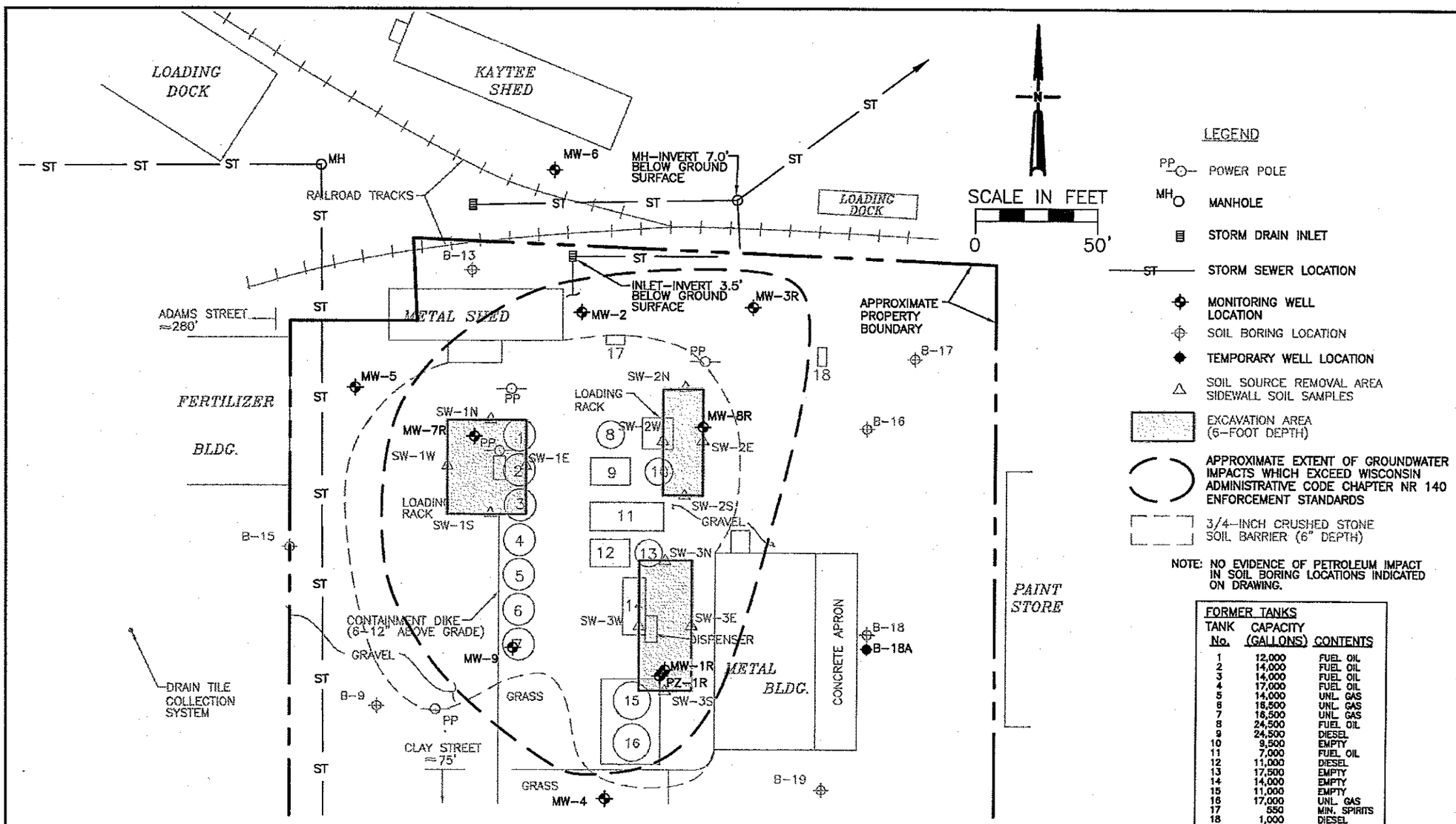
STS Consultants Ltd.

STS PROJECT NO. 21794WA

SCALE 1"=50'

FIGURE NO. 3

X:\PROJECTS\421794WA\G421794WA_FIG3.dwg, LEGAL, 3/3/2008 3:55:11 PM, \\04main\04GBHP5000CAD, 1:1



LEGEND

- PP — POWER POLE
- MH — MANHOLE
- STORM DRAIN INLET
- ST — STORM SEWER LOCATION
- MONITORING WELL LOCATION
- SOIL BORING LOCATION
- TEMPORARY WELL LOCATION
- SOIL SOURCE REMOVAL AREA SIDEWALL SOIL SAMPLES
- EXCAVATION AREA (6-FOOT DEPTH)
- APPROXIMATE EXTENT OF GROUNDWATER IMPACTS WHICH EXCEED WISCONSIN ADMINISTRATIVE CODE CHAPTER NR 140 ENFORCEMENT STANDARDS
- 3/4-INCH CRUSHED STONE SOIL BARRIER (6" DEPTH)

NOTE: NO EVIDENCE OF PETROLEUM IMPACT IN SOIL BORING LOCATIONS INDICATED ON DRAWING.

FORMER TANKS

TANK No.	CAPACITY (GALLONS)	CONTENTS
1	12,000	FUEL OIL
2	14,000	FUEL OIL
3	14,000	FUEL OIL
4	17,000	FUEL OIL
5	14,000	UNL. GAS
6	16,500	UNL. GAS
7	16,500	UNL. GAS
8	24,500	FUEL OIL
9	24,500	DIESEL
10	9,500	EMPTY
11	7,000	FUEL OIL
12	11,000	DIESEL
13	17,500	EMPTY
14	14,000	EMPTY
15	11,000	EMPTY
16	17,000	UNL. GAS
17	550	MIN. SPIRITS
18	1,000	DIESEL

NOTES: 1. MAP MODIFIED FROM SPCC PLAN (DATED 8/21/95) PROVIDED BY COOPERATIVE SERVICE OIL COMPANY.

NOTE: MW-5 WAS EXCAVATED IN 2002 DURING DATCP AGRICHEMICAL CLEAN-UP, MW-6 APPEARS TO HAVE BEEN BURIED OR REMOVED. STORM SEWER LOCATIONS ARE APPROXIMATE.

DESIGNED BY P.M.G. | DATE 03-05-08
DRAWN BY J.R.L. | DATE 03-05-08
APPROVED BY | DATE
CADFILE
XREF

COOPERATIVE SERVICE OIL COMPANY BULK PETROLEUM STORAGE FACILITY CHILTON, WISCONSIN

ESTIMATED EXTRENT OF GROUNDWATER IMPACTS

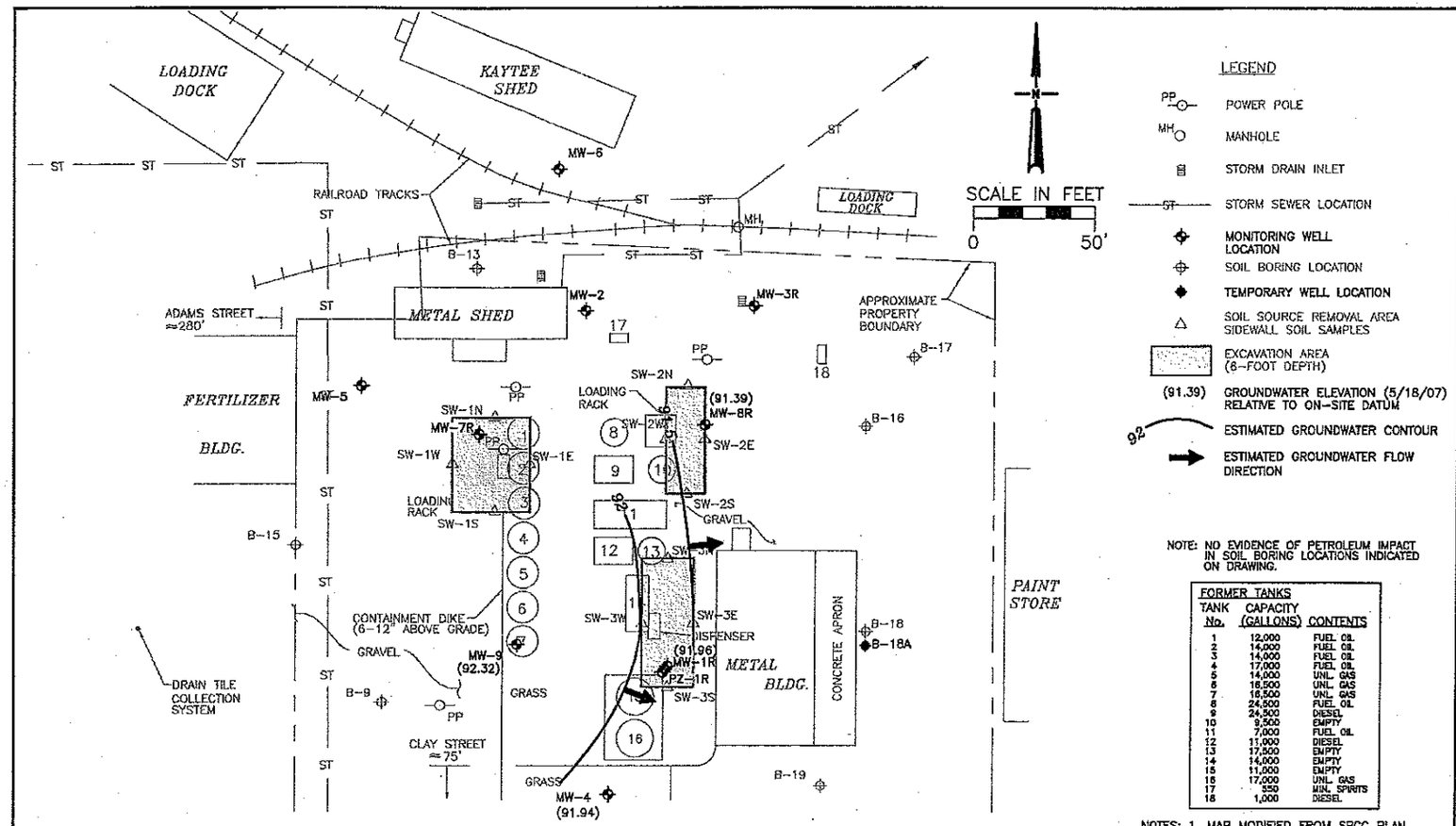
STS Consultants Ltd.

STS PROJECT NO. 21794WA

SCALE 1"=50'

FIGURE NO. 2

X:\PROJECTS\421794WA\G421794WA_FIG2.dwg, legel, 3/3/2008 3:53:38 PM, \\04main\04GBHP5000CAD, 1:1



NOTE: MW-5 WAS EXCAVATED IN 2002 DURING DATCP AGRICHEMICAL CLEAN-UP, MW-6 WAS LOST.

LEGEND

- PP — POWER POLE
- MH — MANHOLE
- STORM DRAIN INLET
- ST — STORM SEWER LOCATION
- MONITORING WELL LOCATION
- SOIL BORING LOCATION
- TEMPORARY WELL LOCATION
- SOIL SOURCE REMOVAL AREA SIDEWALL SOIL SAMPLES
- EXCAVATION AREA (8-FOOT DEPTH)
- (91.39) GROUNDWATER ELEVATION (5/18/07) RELATIVE TO ON-SITE DATUM
- 92 ESTIMATED GROUNDWATER CONTOUR
- ESTIMATED GROUNDWATER FLOW DIRECTION

NOTE: NO EVIDENCE OF PETROLEUM IMPACT IN SOIL BORING LOCATIONS INDICATED ON DRAWING.

FORMER TANKS

TANK No.	CAPACITY (GALLONS)	CONTENTS
1	12,000	FUEL OIL
2	14,000	FUEL OIL
3	14,000	FUEL OIL
4	17,000	FUEL OIL
5	14,000	UNL. GAS
6	16,500	UNL. GAS
7	16,500	UNL. GAS
8	24,500	FUEL OIL
9	24,500	DIESEL
10	9,500	EMPTY
11	7,000	FUEL OIL
12	11,000	DIESEL
13	17,500	EMPTY
14	14,000	EMPTY
15	11,000	EMPTY
16	17,000	UNL. GAS
17	550	MIN. SPIRITS
18	1,000	DIESEL

NOTES: 1. MAP MODIFIED FROM SPCC PLAN (DATED 8/21/95) PROVIDED BY COOPERATIVE SERVICE OIL COMPANY.

DESIGNED BY P.M.G.	DATE 03-05-08	
DRAWN BY J.M.R.	DATE 03-05-08	
APPROVED BY	DATE	
CADFILE	XREF	

COOPERATIVE SERVICE OIL COMPANY BULK PETROLEUM STORAGE FACILITY CHILTON, WISCONSIN

GROUNDWATER CONTOUR MAP (5/18/07)

STS Consultants Ltd.

STS PROJECT NO. 21794WA

SCALE 1"=50'

FIGURE NO. 1

X:\PROJECTS\421794WA\G421794WA_FIG1.dwg, legel, 3/3/2008 3:49:18 PM, \\04main\04GBHP5000CAD, 1:1

Table 1
Summary of Soil Analytical Results
Cooperative Service Oil Company
Chilton, Wisconsin
Project No. 21794W

Boring & Sample I.D.	Well I.D.	Depth (feet)	FID (units)	PID (units)	DRO (mg/kg)	GRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)	Naphthalene (mg/kg)	Lead (mg/kg)
B-1 S-3	MW-1, PZ-1	7.5-9.5	1000+	7	18.6	150	1.49	42.7	0.173	0.799	<2.3	0.424	0.133	0.0821	7.09
B-2 S-4	MW-2	6.0-8.0	1000+	48	465	1340	<0.98	<9.8	9.73	9.66	<9.8	20.6	5.91	<4.9	21.7
B-3 S-2	MW-3	2.0-4.0	1000+	4	523	605	0.848	<4.6	5.2	10.8	<4.6	15.9	4.69	3.48	23.2
B-3 S-4	MW-3	6.0-8.0	500	1	<5.0	6.04	--	--	--	--	--	--	--	--	--
B-4 S-6	MW-4	10.0-12.0	1	1	<5.0	<6.59	0.00133	<0.0077	<0.0039	<0.0078	<0.0077	<0.0039	<0.0039	<0.0039	<6.0
B-5 S-1		0-2.0	48	1	5.78	9.28	--	--	--	--	--	--	--	--	--
B-5 S-3		4.0-6.0	1000+	50	5.13	24.8	--	--	--	--	--	--	--	--	--
B-6 S-5		8.0-10.0	1000+	5	12.1	31.8	--	--	--	--	--	--	--	--	--
B-7 S-2	MW-7	2.0-4.0	1000+	74	31500	8340	--	--	--	--	--	--	--	--	--
B-7 S-5	MW-7	8.0-10.0	1000+	182	1520	1360	--	--	--	--	--	--	--	--	--
B-8 S-5	MW-8	8.0-10.0	1000+	54	1920	1880	7.46	21.8	43.2	265.2	4.5	195	67.3	69	<5.8
B-9 S-4		6.0-8.0	1	2	<5.0	<6.59	--	--	--	--	--	--	--	--	--
B-10 S-3		4.0-6.0	1000+	114	2240	2400	--	--	--	--	--	--	--	--	--
B-10 S-5		8.0-10.0	1000+	49	1190	59.8	2.84	<2.3	2.23	3.45	<2.3	1.96	1.77	5.47	<5.8
B-11 S-4		6.0-8.0	1000	3	6.16	11.1	--	--	--	--	--	--	--	--	--
B-12 S-4		6.0-8.0	180	1	10.6	248	--	--	--	--	--	--	--	--	--
B-13 S-3		4.0-6.0	675	7	11.8	11.8	--	--	--	--	--	--	--	--	--
B-14 S-4	MW-5	6.0-8.0	490	1	<5.0	<6.59	--	--	--	--	--	--	--	--	--
B-15 S-4		6.0-8.0	16	1	<5.0	<6.59	--	--	--	--	--	--	--	--	--
B-16 S-2		2.0-4.0	400	1	<5.0	<6.59	--	--	--	--	--	--	--	--	--
B-16 S-4		6.0-8.0	14	3	<5.0	<6.59	--	--	--	--	--	--	--	--	--
B-17 S-5		8.0-10.0	1	1	<5.0	<6.59	--	--	--	--	--	--	--	--	--
B-18 S-4		6.0-8.0	1	1	<5.0	<6.59	--	--	--	--	--	--	--	--	--
B-19 S-4		6.0-8.0	1	1	<5.0	<6.59	--	--	--	--	--	--	--	--	--
B-20 S-3		4.0-6.0	1000+	55	2030	1990	--	--	--	--	--	--	--	--	--
B-22 S-2	MW-6	2.0-4.0	--	<1	7.4	<0.9	<0.25	0.031	0.082	0.307	<0.025	0.221	0.171	--	--
B-23 S-2		2.0-4.0	--	65	26	<0.9	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	--	--

Notes:
DRO Diesel Range Organics
GRO Gasoline Range Organics
MTBE Methyl tert Butyl Ether
1,2,4-TMB 1,2,4-Trimethylbenzene
1,3,5-TMB 1,3,5-Trimethylbenzene
-- Not analyzed
FID Flameionization Detector
PID Photoionization Detector

Table 2
Soil Analytical Results
Cooperative Service Oil Company
Chilton, Wisconsin

Analyte	Units	MW-9, S-3, 4-6' 10/4/2001	MW-9, S-4, 6-8' 10/4/2001	[1]WAC NR 720 RCL	WAC NR 746 Indicators	[3]WDNR Suggested Generic RCL for PAHs	
						Groundwater Pathway	Direct Contact
PVOC							
1,2,4-Trimethylbenzene	ug/kg	10000	2500		83000		
1,3,5-Trimethylbenzene	ug/kg	4000	3300		11000		
Benzene	ug/kg	**1200**	**2600**	5.5	8500		
Ethylbenzene	ug/kg	**8100**	840	2900	4600		
Methyl-tert-butyl-ether	ug/kg	340	<100				
Toluene	ug/kg	**210**	<100	1500	3800		
Total Xylenes	ug/kg	**29390**	2700	4100	42000		
PAH/PNA							
1-Methylnaphthalene	ug/kg	3600	2200			23000	1100000
2-Methylnaphthalene	ug/kg	4400	6700			20000	600000
Acenaphthene	ug/kg	70	<100			38000	900000
Acenaphthylene	ug/kg	<110	<170			700	18000
Anthracene	ug/kg	<66	<100			3000000	5000000
Benzo(a)anthracene	ug/kg	<36	<56			17000	88
Benzo(a)pyrene	ug/kg	<36	<56			48000	8.8
Benzo(b)flouranthene	ug/kg	<39	<61			360000	88
Benzo(ghi)perylene	ug/kg	<72	<110			6800000	1800
Benzo(k)flouranthene	ug/kg	<54	<84			870000	880
Chrysene	ug/kg	<41	<64			37000	8800
Dibenzo(a,h)anthracene	ug/kg	<44	<69			38000	8.8
Flouranthene	ug/kg	<48	<75			500000	600000
Flourene	ug/kg	330	510			100000	600000
Ideno(1,2,3-cd)pyrene	ug/kg	<66	<100			680000	88
Naphthalene	ug/kg	**1200**	**440**			400	20000
Phenanthrene	ug/kg	100	130			1800	18000
Pyrene	ug/kg	<78	<120			8700000	500000

Notes:
WAC NR 720 RCL = Wisconsin Administrative Code Chapter NR 720 Residual Contaminant Level
[1]WAC NR 720 RCLs are based on the protection of groundwater.
[2]WAC NR 720 RCLs are based on human health risk from direct contact related to land use.
WAC NR 746 values are indicators of residual petroleum product in soil pores.
[3]WDNR suggested generic residual contaminant level for PAHs (Publication RR-519-97)
ug/kg = micrograms per kilogram
"<" = analyte not detected above method detection limit

Table 2
Soil Excavation Documentation Sampling
Cooperative Service Oil Company - Bulk Petroleum Storage Facility
Chilton, Wisconsin

Sample	Date	Depth - Ft	Units	Benzene	Ethylbenzene	Methyl-tert-butyl-ether	Toluene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	Total Xylenes
SW-1N	9/16/02	2.5-3.5	mg/kg	31	91	5.3	7.7	85	260	355
SW-1E	9/16/02	2.5-3.5	mg/kg	14	130	<2.5	200	160	530	440
SW-1W	9/16/02	2.5-3.5	mg/kg	7.3	71	<2	<2	83	260	277
SW-1S	9/16/02	2.5-3.5	mg/kg	6.1	26	2.6	42	22	65	128
SW-2N	9/16/02	2.5-3.5	mg/kg	85	140	18	190	98	300	640
SW-2E	9/16/02	2.5-3.5	mg/kg	0.3	0.34	0.98	0.035	0.4	1.2	1.446
SW-2W	9/16/02	2.5-3.5	mg/kg	16	33	3.1	5.2	39	110	171
SW-2S	9/16/02	2.5-3.5	mg/kg	0.53	1.5	<0.05	0.079	1.4	3.9	5.79
SW-3N	9/16/02	2.5-3.5	mg/kg	0.21	0.3	0.059	0.033	0.46	0.96	0.891
SW-3E	9/16/02	2.5-3.5	mg/kg	19	110	3.7	110	73	220	410
SW-3W	9/16/02	2.5-3.5	mg/kg	<1.3	77	<1.3	1.9	110	350	507
SW-3S	9/16/02	2.5-3.5	mg/kg	0.78	43	1	1	32	97	130
NR 720.09 RCL			mg/kg	0.0055	2.9	--	1.5	--	--	4.1
NR 746.06 Risk Criteria - Product in Soil Pores			mg/kg	8.5	4.6	--	38.0	11.0	83.0	42.0
NR 746.06 Risk Criteria - Direct Contact			mg/kg	1.1	--	--	--	--	--	--

Notes:

NR 720.09 RCL = Wisconsin Administrative Code Chapter NR 720 Residual Contaminant Level - Based on Protection of Groundwater
NR 746.06 = Wisconsin Administrative Code Chapter NR 746.06 Risk Criteria Based on Residual Petroleum in Soil Pores
or Protection of Human Health through Direct Contact.

Table 2
Summary of Groundwater Analytical Results
Chilton Cooperative Service Oil Company
Chilton, Wisconsin
STS Project No. 21794W

Well ID	Date	Analytical Laboratory	Benzene (ug/l)	Ethyl-benzene (ug/l)	Toluene (ug/l)	Total Xylene (ug/l)	MTBE (ug/l)	1,2,4-TMB (ug/l)	1,3,5-TMB (ug/l)	Naphthalene (ug/l)	Sulfate (mg/l)
MW-1	2/8/1996	Enviroscan	8540	1170	<1000	2883	<1000	594	<500	144	NA
	8/19/1996	Robert E. Lee	3320	1270	1090	4620	<135	674	178	300	NA
	11/14/1996	Robert E. Lee	4790	1760	1320	6290	<270	952	240	291	NA
	3/3/1997	Robert E. Lee	6150	1280	667	4396	<92	725	640	260	NA
	6/5/1997	US Oil Co., Inc.	2300	1800	4300	6800	<4.2	840	260	350	NA
	12/3/1997	US Oil Co., Inc.	2800	1700	1700	6600	<21	820	220	1150	0.19
	6/16/1998	U.S. Filter	2850	1090	500	3871	<50	404	99	239	6.12
	12/9/1998	U.S. Filter	2980	1410	349	4810	<100	601	138	<100	NA
	6/14/1999	Robert E. Lee	1970	1500	1120	5110	<46	505	128 (p)	359 (p)	<0.52
	12/13/1999	Robert E. Lee	2370	1600	137	5590	<46	647	165	359 (p)	<0.26
	6/19/2000	Robert E. Lee	1420	2060	642	9770	<460	3520	893 (p)	7440	<0.38
	12/20/2000	Robert E. Lee	1580	3190	124	17000	44	5510	914	1730	3.80
MW-1R	11/8/2002	EnChem, Inc.	1300	70	9.6	272	<4.3	75	25	34	NA
	11/21/2003	EnChem, Inc.	590	1000	4.3	1109.4	6.2	330	67	110	NA
	10/8/2004	EnChem, Inc.	1100	490	4	123.6	<1.8	65	2.9	53	NA
	4/20/2005	EnChem, Inc.	330	700	4.9	248.7	5.8	130	2.7	69	NA
	11/14/2005	Pace	550	1300	14	1113	<3.6	420	32	140	NA
	5/31/2006	Pace	400	960	2.4	84	1.2	81	<0.79	120	NA
	11/10/2006	Pace	320	1400	7.6	660	<3.6	270	21	110	NA
	5/18/2007	Pace	370	640	4.7	193.1	<1.8	92	3.8	54	NA
	11/16/2007	Pace	240	830	5.9	624.9	1.9	190	29	70	NA
MW-2	4/18/1996	Robert E. Lee	1600	572	285	2700	443	566	175	108	NA
	8/19/1996	Robert E. Lee	1280	453	259	1970	408	371	104	114	NA
	11/14/1996	Robert E. Lee	1850	683	392	3120	604	583	172	134	NA
	3/3/1997	Robert E. Lee	1700	651	140	734	400	604	532	113	NA
	6/5/1997	US Oil Co., Inc.	1200	520	140	2100	270	500	170	100	NA
	12/3/1997	US Oil Co., Inc.	1800	570	62	2000	1000	570	154	210	0.79
	6/16/1998	U.S. Filter	1150	410	55.7	1194	440	400	112	83	<1.0
	12/9/1998	U.S. Filter	1320	539	44.3	1719	768	603	162	105	NA
	6/14/1999	Robert E. Lee	730	531	39	1781	110	535	159	130	<0.52
	12/13/1999	Robert E. Lee	915	491	36 (p)	1540	332	531	157	<140	<0.26
	6/19/2000	Robert E. Lee	943	642	68	2520	142	671	189	209	<0.38
	12/20/2000	Robert E. Lee	847	384	55	1310	392	361	105	89	<0.38
	11/8/2002	EnChem, Inc.	360	260	24	878	98	360	74	70	NA
MW-3	4/18/1996	Robert E. Lee	1410	365	61	1803	8690	360	134	93	NA
	8/19/1996	Robert E. Lee	1820	391	30	605	3490	312	111	135	NA
	11/14/1996	Robert E. Lee	722	138	<12	143	2090	63	29	37	NA
	3/3/1997	Robert E. Lee	233	53	3.1	75	163	32	28	17	NA
	6/5/1997	US Oil Co., Inc.	700	66	<15	110	420	52	<8.6	26	NA
	12/3/1997	US Oil Co., Inc.	510	32	<15	<18	680	16	<8.6	17	25
	6/16/1998	U.S. Filter	420	<10	<10	<20	348	<10	<10	13.4	17.6
	12/9/1998	U.S. Filter	32	<10	<10	<20	196	<10	<10	<10	NA
	6/14/1999	Robert E. Lee	210	17	1.6 (p)	31.79 (p)	140	8.5	1.6 (p)	8.7 (p)	31
	12/13/1999	Robert E. Lee	99	31	2.2	15	142	14.0	<0.9	5.9	54
	6/19/2000	Robert E. Lee	96	27	1.6	44	75	11.0	2.2	4.9 (p)	16
	12/20/2000	Robert E. Lee	Inaccessible due to ice								
MW-3R	11/8/2002	EnChem, Inc.	190	46	<17	110	5000	24	<23	<22	NA
	11/21/2003	EnChem, Inc.	560	870	34	1050	350	830	230	270	NA
	10/8/2004	EnChem, Inc.	1300	1000	27	898	180	560	120	150	NA
	4/20/2005	EnChem, Inc.	710	650	18	530	160	500	61	37	NA
	11/14/2005	Pace	490	610	15	412	62	450	13	12	NA
NR 140 Enforcement Standard			5	700	1000	10000	60	480		100	NE
NR 140 Preventive Action Limit			0.5	140	200	1000	12	96		10	NE

Table 2
Summary of Groundwater Analytical Results
Chilton Cooperative Service Oil Company
Chilton, Wisconsin
STS Project No. 21794W

Well ID	Date	Analytical Laboratory	Benzene (ug/l)	Ethyl-benzene (ug/l)	Toluene (ug/l)	Total Xylene (ug/l)	MTBE (ug/l)	1,2,4-TMB (ug/l)	1,3,5-TMB (ug/l)	Naphthalene (ug/l)	Sulfate (mg/l)
MW-4	2/8/1996	Enviroscan	0.246	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<0.09	NA
	8/19/1996	Robert E. Lee	<0.5	<0.6	<0.6	<1.7	<2.7	<1.7	<0.9	<1.0	NA
	11/14/1996	Robert E. Lee	<0.5	<0.6	<0.6	<1.7	<2.7	<1.7	<0.9	<1.0	NA
	3/3/1997	Robert E. Lee	<0.5	<0.6	<0.6	<2.2	<0.92	<1.7	<0.9	<1.0	NA
	6/5/1997	US Oil Co., Inc.	<0.21	<0.68	<1.5	<1.8	<0.21	<1.0	<0.86	<1	NA
	12/3/1997	US Oil Co., Inc.	<0.21	<0.68	<1.5	<1.8	<0.21	<1.0	<0.86	<1	18
	6/16/1998	U.S. Filter	<0.5	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	24.9
	12/9/1998	U.S. Filter	<0.5	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	NA
	6/14/1999	Robert E. Lee	<0.5	<0.6	<0.6	<2.2	<0.92	<1.7	<0.9	<2.8	27
	12/13/1999	Robert E. Lee	<0.5	<0.6	<0.6	<1.7	<0.92	<1.7	<0.9	<2.8	21
	6/19/2000	Robert E. Lee	<0.5	<0.6	<0.6	<1.7	<0.92	<1.7	<0.9	<2.8	21
	12/20/2000	Robert E. Lee	<0.5	<0.6	<0.6	<1.7	<0.92	<1.7	<0.9	<2.8	22
	11/8/2002	EnChem, Inc.	<0.45	<0.82	<0.68	<2.47	<0.43	<0.94	<0.92	<0.89	NA
	11/21/2003	EnChem, Inc.	<0.30	<0.60	<0.58	<1.84	<0.58	<0.66	<0.52	<0.58	NA
	10/8/2004	EnChem, Inc.	<0.14	<0.40	<0.36	<1.10	<0.36	<0.39	<0.40	<0.47	NA
	4/20/2005	EnChem, Inc.	<0.14	<0.40	<0.36	<1.10	<0.36	<0.39	<0.40	<0.47	NA
	11/14/2005	Pace	<0.21	<0.40	<0.36	<1.10	<0.36	<0.39	<0.40	<0.47	NA
	5/31/2006	Pace	<0.14	<0.40	<0.36	<1.10	<0.36	<0.39	<0.40	<0.47	NA
	11/10/2006	Pace	<0.14	<0.40	<0.36	<1.10	<0.36	<0.39	<0.40	<0.47	NA
	5/18/2007	Pace	<0.14	<0.40	<0.36	<1.10	<0.36	<0.39	<0.40	<0.47	NA
	11/16/2007	Pace	<0.14	<0.40	<0.36	<1.10	<0.36	<0.39	<0.40	<0.47	NA
MW-5	2/8/1996	Enviroscan	<0.2	<1.0	<2.0	<2.0	2.0	<1.0	<1.0	<0.09	NA
	8/19/1996	Robert E. Lee	<0.5	<0.6	1.1	<1.7	2.8	<1.7	<0.9	<1.0	NA
	11/14/1996	Robert E. Lee	<0.5	<0.6	<0.6	<1.7	2.8	<1.7	<0.9	<1.0	NA
	3/3/1997	Robert E. Lee	<0.5	<0.6	0.69	<2.2	1.6	<1.7	<0.9	<1.0	NA
	6/5/1997	US Oil Co., Inc.	0.24	<0.68	<1.5	<1.8	0.93	<1.0	<0.86	<1	NA
	12/3/1997	US Oil Co., Inc.	<0.21	<0.68	<1.5	<1.8	1.5	<1.0	<0.86	<1	150
	6/16/1998	U.S. Filter	<0.5	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	8.91
	12/9/1998	U.S. Filter	<0.5	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	NA
	12/13/1999	Robert E. Lee	<0.5	<0.6	<0.6	<1.7	4	<1.7	<0.9	<2.8	43
	6/19/2000	Robert E. Lee	<0.5	<0.6	<0.6	<1.7	<0.92	<1.7	3	<2.8	2220
	12/20/2000	Robert E. Lee	Inaccessible due to ice								
MW-6	4/18/1996	Robert E. Lee	<0.5	<0.6	0.9	<2.2	<2.7	<1.7	<0.9	<1.0	NA
	8/19/1996	Robert E. Lee	<0.5	<0.6	<0.6	<1.7	<2.7	<1.7	<0.9	<1.0	NA
	11/14/1996	Robert E. Lee	<0.5	<0.6	<0.6	<1.7	<2.7	<1.7	<0.9	<1.0	NA
	3/3/1997	Robert E. Lee	<0.5	<0.6	<0.6	<2.2	<0.92	<1.7	<0.9	<1.0	NA
	6/5/1997	US Oil Co., Inc.	<0.21	<0.68	<1.5	<1.8	<0.21	<1.0	<0.86	<1	NA
	12/3/1997	US Oil Co., Inc.	<0.21	1.1	<1.5	6	<0.21	4.3	1.5	1.7	50
	6/16/1998	U.S. Filter	<0.5	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	38.9
	12/9/1998	U.S. Filter	<0.5	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	NA
	6/14/1999	Robert E. Lee	<0.5	<0.6	<0.6	<2.2	<0.92	<1.7	<0.9	<2.8	39
	12/13/1999	Robert E. Lee	<0.5	<0.6	<0.6	<1.7	<0.92	<1.7	<0.9	<2.8	44
	6/19/2000	Robert E. Lee	<0.5	<0.6	<0.6	<1.7	<0.92	<1.7	<0.9	4.9	34
	12/20/2000	Robert E. Lee	<0.5	<0.6	<0.6	<1.7	<0.92	<1.7	<0.9	<2.8	45
NR 140 Enforcement Standard			5	700	1000	10000	60	480		100	NE
NR 140 Preventive Action Limit			0.5	140	200	1000	12	96		10	NE

Table 2
Summary of Groundwater Analytical Results
Chilton Cooperative Service Oil Company
Chilton, Wisconsin
STS Project No. 21794W

Well ID	Date	Analytical Laboratory	Benzene (ug/l)	Ethyl-benzene (ug/l)	Toluene (ug/l)	Total Xylene (ug/l)	MTBE (ug/l)	1,2,4-TMB (ug/l)	1,3,5-TMB (ug/l)	Naphthalene (ug/l)	Sulfate (mg/l)
MW-7	4/18/1996	Robert E. Lee	3080	1070	1030	5070	11000	1440	382	534	NA
	8/19/1996	Robert E. Lee	3420	863	285	3300	11000	969	241	378	NA
	11/14/1996	Robert E. Lee	3890	1420	225	6460	11400	1870	480	881	NA
	3/3/1997	Robert E. Lee	6150	1340	130	5599	13200	1870	1570	534	NA
	6/5/1997	US Oil Co., Inc.	4200	900	150	3900	11000	1200	410	610	NA
	12/3/1997	US Oil Co., Inc.	4800	930	<150	3900	9400	1500	450	770	0.13
	6/16/1998	U.S. Filter	4780	916	69.1	3418	8620	1080	273	413	<1.0
	12/9/1998	U.S. Filter	5750	992	<100	3689	9690	1060	265	332	NA
	6/14/1999	Robert E. Lee	5950	1100	159	4089	7520	1130	312	552	<0.52
	12/13/1999	Robert E. Lee	5840	1010	47 (p)	3550	6830	1010	290	545	<0.26
	6/19/2000	Robert E. Lee	6360	715	32	2550	7690	777	214	439	2.3
	12/20/2000	Robert E. Lee	Inaccessible due to ice								
MW-7R	11/8/2002	EnChem, Inc.	2100	87	17	270	5700	120	36	40	NA
	11/21/2003	EnChem, Inc.	2700	120	<12	140	4600	130	37	78	NA
	10/8/2004	EnChem, Inc.	1500	54	<7.1	23	3300	28	<7.9	22	NA
	4/20/2005	EnChem, Inc.	2600	110	<8.9	48	4100	120	<9.9	53	NA
	11/14/2005	Pace	1600	72	<8.9	32	2000	92	<9.9	48	NA
MW-8	4/18/1996	Robert E. Lee	1240	113	21	435	1320	136	42	75	NA
	8/19/1996	Robert E. Lee	2460	201	<60	369	12100	205	<90	<100	NA
	11/14/1996	Robert E. Lee	2650	247	40	474	14700	224	63	143	NA
	3/3/1997	Robert E. Lee	3710	243	<60	655	18300	236	<90	114	NA
	6/5/1997	US Oil Co., Inc.	2700	230	<150	790	22000	250	94	200	NA
	12/3/1997	US Oil Co., Inc.	3100	230	<150	770	23000	280	<86	230	0.2
	6/16/1998	U.S. Filter	3020	255	<50	787	20400	266	70.2	142	<1.0
	12/9/1998	U.S. Filter	3340	229	<100	796	27300	240	<100	111	NA
	6/14/1999	Robert E. Lee	3770	229	38	822	23800	264	79.0	172	<0.26
	12/13/1999	Robert E. Lee	3620	237	46 (p)	898	24900	285	90.0	210 (p)	<0.26
	6/19/2000	Robert E. Lee	3280	233	42	968	25600	308	92.0	<280	<0.38
	12/20/2000	Robert E. Lee	3150	184	35	741	24600	242	72	161	<0.38
MW-8R	11/8/2002	EnChem, Inc.	1800	<82	<68	190	20000	<92	<94	<89	NA
	11/21/2003	EnChem, Inc.	3300	150	80	400	14000	150	<52	81	NA
	10/8/2004	EnChem, Inc.	2200	96	32	110	8800	100	<20	51	NA
	4/20/2005	EnChem, Inc.	2900	120	52	300	12000	120	31	47	NA
	11/14/2005	Pace	4800	190	88	440	13000	190	49	83	NA
	5/31/2006	Pace	2700	130	47	205	9500	140	20	63	NA
	11/10/2006	Pace	3700	120	47	180	11000	130	24	60	NA
	5/18/2007	Pace	4700	220	67	388	7700	230	48	120	NA
	11/16/2007	Pace	3900	130	48	160	9400	160	<20	46	NA
MW-9	11/21/2003	EnChem, Inc.	860	120	6.9	440	<3	86	32	21	NA
	10/8/2004	EnChem, Inc.	630	390	10	1212	3	310	82	150	NA
	4/20/2005	EnChem, Inc.	600	640	17	2018	6	630	190	200	NA
	11/14/2005	Pace	960	960	31	3231	<3.6	780	220	250	NA
	5/31/2006	Pace	310	540	12	1815	<1.8	580	150	210	NA
	11/10/2006	Pace	490	670	18	2420	3	700	190	230	NA
	5/18/2007	Pace	350	150	14	2015	2	570	150	180	NA
	11/16/2007	Pace	500	690	18	2620	1.9	730	210	240	NA
NR 140 Enforcement Standard			5	700	1000	10000	60	480		100	NE
NR 140 Preventive Action Limit			0.5	140	200	1000	12	96		10	NE

Table 2
Summary of Groundwater Analytical Results
Chilton Cooperative Service Oil Company
Chilton, Wisconsin
STS Project No. 21794W

Well ID	Date	Analytical Laboratory	Benzene (ug/l)	Ethyl-benzene (ug/l)	Toluene (ug/l)	Total Xylene (ug/l)	MTBE (ug/l)	1,2,4-TMB (ug/l)	1,3,5-TMB (ug/l)	Naphthalene (ug/l)	Sulfate (mg/l)
PZ-1	2/8/1996	Enviroscan	**683**	652	742	2233	<100	**504**	**120**	**148**	NA
	8/19/1996	Robert E. Lee	**182**	441	27	502	<68	**446**	**145**	**147**	NA
	11/14/1996	Robert E. Lee	**104**	234	<6	193	<27	142	41	54	NA
	3/3/1997	Robert E. Lee	**24**	94	33	175	2.4	77	59	27	NA
	6/5/1997	US Oil Co., Inc.	**36**	230	37	280	<2.1	170	49	77	NA
	12/3/1997	US Oil Co., Inc.	**16**	140	3	140	0.42	62	8	42	54
	6/16/1998	U.S. Filter	**20.1**	226	25.3	232.4	<1.0	128	23.5	**105**	61.2
	12/9/1998	U.S. Filter	**12**	227	9.07	181.7	<5.0	118	17.3	60	NA
	6/14/1999	Robert E. Lee	**18**	300	10	218	<0.92	148	21	**101**	58.0
	12/13/1999	Robert E. Lee	**15**	269	7	136	<0.92	120	12	69	54.0
	6/19/2000	Robert E. Lee	**10**	190	5.7	154	8.50	131	7.2	68	44.0
	12/20/2000	Robert E. Lee	**13**	138	1.1	66	7.50	54	4.2	19	38.0
PZ-1R	11/8/2002	EnChem, Inc.	**9.8**	17	1.3	51	<0.43	12	5.0	4.8	NA
	11/21/2003	EnChem, Inc.	2.3	5.9	<0.58	4.2	<0.58	3	<0.52	2.1	NA
	10/8/2004	EnChem, Inc.	0.24	<0.40	<0.36	<1.10	<0.36	<0.39	<0.40	<0.47	NA
	4/20/2005	EnChem, Inc.	0.29	<0.40	<0.36	<1.10	<0.36	<0.39	<0.40	<0.47	NA
B-18A	6/30/2000	Robert E. Lee	<0.19	<0.13	0.13 (p)	<0.3	NA	0.39 (p)	0.13 (p)	0.42	27.0
	10/9/2000	Robert E. Lee	sampled temporary well for dissolved lead; no detect (<0.81ug/l)								
NR 140 Enforcement Standard			5	700	1000	10000	60	480		100	NE
NR 140 Preventive Action Limit			0.5	140	200	1000	12	96		10	NE

1,2,4-TMB = 1,2,4-Trimethylbenzene
1,3,5-TMB = 1,3,5-Trimethylbenzene
MTBE = Methyl tert Butyl Ether
(p) = reported result is less than the practical quantitation limit
NA = not analyzed
NE = not established
8540 NR 140 Enforcement Standard Exceedance

Table 1
Field Sampling Summary
Cooperative Service Oil Company
Chilton, Wisconsin

Location	Date	TPVC Elevation (ft.)	Water Level TPVC (ft.)	Water Level Elevation (ft.)	Temperature ^0C	pH	Conductivity	Color	Turbidity	Odor	Gallons Purged	Ferrous Iron (mg/l)	Manganese (mg/l)	Dissolved Oxygen (mg/l)
MW-1	1/5/1996	97.19	Frozen	--	--	--	--	--	--	--	--	--	--	--
	2/8/1996	97.19	5.11	92.08	--	--	--	Clear	--	Slight	4	--	--	--
	4/18/1996	97.19	4.11	93.08	--	--	--	--	--	--	--	--	--	--
	5/22/1996	97.19	4.23	92.96	--	--	--	--	--	--	--	--	--	--
	8/19/1996	97.19	4.28	92.91	17	6.85	1192	Clear	Slight	Slight	3.5	--	--	--
	11/14/1996	97.19	5.53	91.66	11	7.24	1280	Clear	--	Strong	3	--	--	--
	3/3/1997	97.19	4.58	92.61	6	6.79	1372	Clear	--	Strong	3	--	--	1
	6/5/1997	97.19	5.03	92.16	15	7.35	1306	Sl. Sheen	--	Strong	4	--	--	1
	12/3/1997	97.19	5.92	91.27	8.6	6.74	1670	Clear	None	Strong	5	10.0	0.0	<1
	6/16/1998	97.19	4.48	92.71	20.3	6.61	1269	Sl. Sheen	Slight	Strong	3.5	>10	0.0	<1
	12/9/1998	97.19	5.94	91.25	12.8	6.77	1260	--	--	Strong	5	--	--	<1
	6/14/1999	97.19	4.48	92.71	14.9	6.35	1270	Lt Grey	Slight	Strong	6	--	--	<1
	12/13/1999	97.19	5.30	91.89	9.4	6.18	1275	Clear	Clear	Strong	3.5	10+	--	<1
	6/19/2000	97.19	3.90	93.29	18.7	6.33	1020	Lt Yellow	Slight	Strong	4.5	--	--	<1
	12/20/2000	97.19	5.43	91.76	6.3	6.71	990	Lt Yel Br	none	Strong	4	10+	--	<1
MW-1R	11/8/2002	95.19	4.97	90.22	--	--	--	Clear	Slight	Slight	4.5	10+	--	<1
	10/8/2004	95.19	3.52	91.67	--	--	--	--	--	Strong	3	--	--	--
	4/20/2005	95.19	3.90	91.29	--	--	--	--	--	Strong	4	--	--	--
	11/14/2005	95.19	4.90	90.29	12.3	6.86	1153	Lt Gr Br	Clear	Moderate	2	--	--	--
	5/31/2006	95.19	2.77	92.42	--	--	--	Lt Grey	Slight	Strong	4	--	--	--
	11/10/2006		not collected		--	--	--	--	--	--	--	--	--	--
	5/18/2007	95.19	3.23	91.96	--	--	--	Lt Grey	Moderate	Strong	3.5	--	--	--
	11/16/2007	95.19	4.11	91.08	--	--	--	--	--	Strong	3	--	--	--
MW-2	4/18/1996	95.68	1.92	93.76	13	7.05	1006	Clear	None	--	3	--	--	--
	5/22/1996	95.66	2.08	93.58	--	--	--	--	--	--	--	--	--	--
	8/19/1996	95.66	2.70	92.96	17	6.71	1570	Clear	Slight	Slight	4	--	--	1
	11/14/1996	95.66	3.02	92.64	11	7.09	1090	Clear	--	None	3.5	--	--	1
	3/3/1997	95.66	1.60	94.06	6	6.99	1013	Clear	--	None	4	--	--	1
	6/5/1997	95.66	2.46	93.20	14	7.22	905	Clear	--	Moderate	4	--	--	<1
	12/3/1997	95.66	3.38	92.28	8.6	7.04	1322	Clear	--	Moderate	3	10.0	0.6	<1
	6/16/1998	95.66	2.69	92.97	18.3	6.6	962	Clear	--	Moderate	5	>10	0	1
	12/9/1998	95.66	3.28	92.38	12.6	6.69	935	--	--	Slight	4	--	--	<1
	6/14/1999	95.66	0.50	95.16	14.4	6.32	710	Lt Brown	Slight	Moderate	3	--	--	<1
	12/13/1999	95.66	2.80	92.86	10.9	6.18	870	Lt Yellow	Clear	Slight	3.5	10+	--	<1
	6/19/2000	95.66	1.62	94.04	16.7	6.33	660	Lt Yellow	Clear	Slight	3	--	--	<1
	12/20/2000	95.66	3.33	92.33	6.3	6.63	730	Lt Yel Br	none	Strong	2.5	10+	--	<1
	11/8/2002	93.89	3.02	90.87	--	--	--	Clear	Clear	None	5.5	1.0	--	<1

Table 1
Field Sampling Summary
Cooperative Service Oil Company
Chilton, Wisconsin

Location	Date	TPVC Elevation (ft.)	Water Level TPVC (ft.)	Water Level Elevation (ft.)	Temperature °C	pH	Conductivity	Color	Turbidity	Odor	Gallons Purged	Ferrous Iron (mg/l)	Manganese (mg/l)	Dissolved Oxygen (mg/l)
MW-3	4/18/1996	96.03	1.93	94.10	14	7.25	1040	Clear	None	--	4	--	--	--
	5/22/1996	96.02	2.50	93.52	--	--	--	--	--	--	--	--	--	--
	8/19/1996	96.02	2.94	93.08	18	6.79	1766	Clear	Slight	Slight	3	--	--	<1
	11/14/1996	96.02	3.14	92.88	11	7.20	900	Clear	--	Slight	3	--	--	2
	3/3/1997	96.02	1.44	94.58	6	6.80	770	Clear	--	None	3	--	--	1
	6/5/1997	96.02	2.77	93.25	15	7.47	658	Clear	--	Slight	4	--	--	1
	12/3/1997	96.02	3.45	92.57	6.9	7.04	1030	Clear	--	None	4	0.1	0.0	1
	6/16/1998	96.02	2.82	93.20	19.2	6.79	683	Clear	Slight	Slight	4	0.6	0.0	1
	12/9/1998	96.03	3.14	92.89	13.0	6.93	510	--	--	None	3	--	--	<1
	6/14/1999	96.03	1.75	94.28	13.8	6.37	785	Clear	Clear	None	3	--	--	1
	12/13/1999	96.03	3.18	92.85	11.4	6.36	700	Clear	Clear	Slight	3	2	--	<1
	6/19/2000	96.03	2.09	93.94	16.7	6.31	580	Clear	Clear	None	4	--	--	1
	12/20/2000	inaccessible due to ice												
MW-3R	11/8/2002	95.40	4.08	91.32	--	--	--	Clear	Clear	Slight	5	0.4	--	<1
	10/8/2004	95.40	3.29	92.11	--	--	--	--	--	Slight	3	--	--	--
	4/20/2005	95.40	3.77	91.63	--	--	--	--	--	Slight	2.5	--	--	--
	11/14/2005	95.40	3.66	91.74	12.8	6.75	885	--	--	Moderate	2.5	--	--	--
MW-4	1/5/1996	100.02	8.47	91.55	--	--	--	Clear	--	None	7	--	--	--
	2/8/1996	100.02	7.77	92.25	--	--	--	Clear	--	None	5	--	--	--
	4/18/1996	100.02	6.69	93.33	--	--	--	--	--	--	--	--	--	--
	5/22/1996	99.91	6.91	93.00	--	--	--	--	--	--	--	--	--	--
	8/19/1996	99.91	6.93	92.98	18	6.99	601	Clear	None	None	5	--	--	2
	11/14/1996	99.91	7.84	92.07	11	7.02	1120	Clear	--	None	6	--	--	3
	3/3/1997	99.91	7.14	92.77	7	6.72	822	Clear	--	None	5.5	--	--	3
	6/5/1997	99.91	7.71	92.20	14	6.82	815	Clear	--	None	8	--	--	1
	12/3/1997	99.91	8.32	91.59	9.1	6.38	820	Clear	--	None	8	0.1	0.0	2
	6/16/1998	99.91	7.12	92.79	19.0	6.93	854	Clear	--	None	12	0.2	0.0	1
	12/9/1998	99.91	8.58	91.33	11.6	7.07	675	--	--	None	10	--	--	<1
	6/14/1999	99.91	5.78	94.13	12.6	6.95	750	Clear	Clear	None	8	--	--	3
	12/13/1999	99.91	7.95	91.96	12.5	6.95	730	Clear	Clear	None	7	0.2	--	1
	6/19/2000	99.91	6.36	93.55	15.8	6.90	520	Clear	Clear	None	10	--	--	1.5
	12/20/2000	99.91	7.75	92.16	5.9	7.27	740	Clear	Clear	None	6	<0.1	--	2
	11/8/2002	98.15	7.88	90.27	--	--	--	Clear	Clear	Slight	5	0.2	--	4
	10/8/2004	98.15	6.85	91.30	--	--	--	--	--	None	5	--	--	--
	4/20/2005	98.15	7.04	91.11	--	--	--	--	--	None	6.5	--	--	--
	11/14/2005	98.15	8.17	89.98	12.6	7.26	646	Clear	Clear	None	5	--	--	--
	5/31/2006	98.15	5.12	93.03	--	--	--	Clear	Clear	None	7.0	--	--	--
	11/10/2006		not collected		--	--	--	--	--	--	--	--	--	--
	5/18/2007	98.15	6.21	91.94	--	--	--	Clear	Clear	None	6.5	--	--	--
	11/16/2007	98.15	7.64	90.51	--	--	--	Clear	Clear	None	5.0	--	--	--
MW-5	1/5/1996	94.99	Frozen	--	--	--	--	--	--	--	--	--	--	--
	2/8/1996	94.99	3.80	91.19	--	--	--	Clear	--	None	5	--	--	--
	4/18/1996	94.99	0.30	94.69	--	--	--	--	--	--	--	--	--	--
	5/22/1996	95.03	0.55	94.48	--	--	--	--	--	--	--	--	--	--
	8/19/1996	95.03	1.08	93.95	17	6.52	1611	Clear	Slight	None	6	--	--	1
	11/14/1996	95.03	1.46	93.57	12	6.91	1510	Clear	--	None	6	--	--	<1
	3/3/1997	95.03	0.82	94.21	7	7.09	2702	Clear	--	None	6	--	--	1
	6/5/1997	95.03	0.08	94.95	14	7.12	1000	Clear	--	None	7	--	--	<1
	12/3/1997	95.03	Damaged		6.6	6.74	3330	Clear	--	None	3	0.8	0.0	--
	6/16/1998	95.03	1.07	93.96	18.6	6.66	2170	Clear	Slight	None	4	10.0	0.0	1
	12/9/1998	95.03	1.31	93.72	11.2	6.56	1710	--	--	None	4	--	--	1.5
	12/13/1999	95.03	1.26	93.77	11.8	5.92	1635	Lt Green	Clear	Organic	7	10.0	--	<1
	6/19/2000	95.03	0.6	94.43	14.0	6.54	>1990	Lt Brown	Slight	None	6	--	--	1
	12/20/2000	inaccessible due to ice												
	11/8/2002	excavated during DATCP clean-up of fertilizer plant in 2002												

Table 1
Field Sampling Summary
Cooperative Service Oil Company
Chilton, Wisconsin

Location	Date	TPVC Elevation (ft.)	Water Level TPVC (ft.)	Water Level Elevation (ft.)	Temperature °C	pH	Conductivity	Color	Turbidity	Odor	Gallons Purged	Ferrous Iron (mg/l)	Manganese (mg/l)	Dissolved Oxygen (mg/l)
MW-6	4/18/1996	97.97	2.86	95.11	16	7.27	988	Clear	None	--	2.5	--	--	--
	5/22/1996	97.95	2.98	94.97	--	--	--	--	--	--	--	--	--	--
	8/19/1996	97.95	3.29	94.66	17	6.84	1285	Clear	Slight	Slight	3.5	--	--	1
	11/14/1996	97.95	3.40	94.55	12	7.44	1090	Clear	--	None	2.5	--	--	<1
	3/3/1997	97.95	2.96	94.99	5	7.24	1011	Clear	--	None	2	--	--	4
	6/5/1997	97.95	3.03	94.92	14	7.24	982	Clear	--	None	6	--	--	1
	12/3/1997	97.95	3.86	94.09	7.4	6.7	1210	Clear	None	Moderate	3	0.1	0.0	<1
	6/16/1998	97.95	3.39	94.56	19.2	6.71	930	Clear	None	Slight	5	0.2	0.3	1
	12/9/1998	97.95	3.58	94.37	12.2	6.75	890	--	--	None	6	--	--	<1
	6/14/1999	97.95	2.45	95.50	14.3	6.4	890	Clear	Clear	None	4	--	--	1
	12/13/1999	97.95	4.01	93.94	11.9	6.37	856	Clear	Clear	None	4.5	0.1	--	<1
	6/19/2000	97.95	3.35	94.60	16.0	6.48	670	Clear	Clear	None	5	--	--	1
	12/20/2000	97.95	4.30	93.65	6.2	7.01	770	Clear	Clear	None	4	<0.1	--	2
	11/8/2002	lost or removed by adjacent property owner												
MW-7	4/18/1996	95.74	2.06	93.68	13	7.35	1290	Lt Brown	Slight	--	3	--	--	--
	5/22/1996	95.71	1.39	94.32	--	--	--	--	--	--	--	--	--	--
	8/19/1996	95.71	2.30	93.41	18	6.93	1301	Clear	Slight	Slight	3	--	--	1
	11/14/1996	95.71	2.88	92.83	11	7.11	1200	Clear	--	Strong	3	--	--	<1
	3/3/1997	95.71	1.97	93.74	5	7.16	1386	Clear	--	Strong	2.5	--	--	2
	6/5/1997	95.71	1.97	93.74	14	7.28	1419	Clear	--	Strong	5	--	--	<1
	12/3/1997	95.71	3.04	92.67	7.3	6.83	1540	Clear	None	Strong	2.5	10.0	0.0	<1
	6/16/1998	95.71	2.23	93.48	19.7	6.64	1333	Clear	Slight	Strong	4.5	10.0	0.0	1
	12/9/1998	95.71	3.02	92.69	13.1	6.75	1215	--	--	Slight	3	--	--	<1
	6/14/1999	95.71	1.53	94.18	14.5	6.25	1350	Clear	Clear	Stong	3.5	--	--	<1
	12/13/1999	95.71	3.10	92.61	9.9	6.15	1194	Clear	Clear	Strong	3.5	10+	--	<1
	6/19/2000	95.71	1.66	94.05	17.4	6.22	1030	Lt Yellow	Clear	Strong	4	--	--	<1
	12/20/2000	inaccessible due to ice												
MW-7R	11/8/2002	93.78	3.35	90.43	--	--	--	Clear	Clear	Strong	4.5	4.0	--	1
	10/8/2004	93.78	3.34	90.44	--	--	--	--	--	Slight	4	--	--	--
	4/20/2005	93.78	3.83	89.95	--	--	--	--	--	Slight	2.5	--	--	--
	11/14/2005	93.78	4.81	88.97	12.4	7.21	963	Lt Br	Clear	Moderate	2	--	--	--

Table 1
Field Sampling Summary
Cooperative Service Oil Company
Chilton, Wisconsin

Location	Date	TPVC Elevation (ft.)	Water Level TPVC (ft.)	Water Level Elevation (ft.)	Temperature °C	pH	Conductivity	Color	Turbidity	Odor	Gallons Purged	Ferrous Iron (mg/l)	Manganese (mg/l)	Dissolved Oxygen (mg/l)
MW-8	4/18/1996	96.87	4.91	91.96	13	7.27	1185	Clear	None	--	2.5	--	--	--
	5/22/1996	96.83	3.97	92.86	--	--	--	--	--	--	--	--	--	--
	8/19/1996	96.83	4.07	92.76	16	6.74	666	Clear	Slight	Slight	3	--	--	<1
	11/14/1996	96.83	4.88	91.95	11	7.09	1330	Clear	--	Slight	3	--	--	<1
	3/3/1997	96.83	4.39	92.44	6	6.74	1386	Clear	--	None	2.5	--	--	1.5
	6/5/1997	96.83	4.81	92.02	15	7.11	1442	Clear	--	None	5	--	--	<1
	12/3/1997	96.83	5.36	91.47	6.7	6.77	1620	Clear	None	Moderate	4	0.1	0.0	<1
	6/16/1998	96.83	4.4	92.43	19.4	6.51	1454	Clear	None	Slight	4	>10	0.0	<1
	12/9/1998	96.83	5.73	91.10	13.2	6.62	1295	--	--	Slight	4	--	--	<1
	6/14/1999	96.83	3.65	93.18	14.2	6.12	1330	Clear	Clear	Moderate	4	--	--	<1
	12/13/1999	96.83	5.2	91.63	11.1	5.96	1270	Clear	Clear	Strong	3.5	10+	--	<1
	6/19/2000	96.83	3.67	93.16	17.4	6.39	1210	Lt Yellow	Slight	Strong	3.5	--	--	<1
	12/20/2000	96.83	5.25	91.58	6.5	6.67	1320	Lt Yel Br	None	Strong	3	10+	--	<1
MW-8R	11/8/2002	94.86	4.73	90.13	--	--	--	Clear	Slight	Strong	4.5	7.0	--	<1
	10/8/2004	94.86	3.84	91.02	--	--	--	--	--	Slight	4	--	--	--
	4/20/2005	94.86	3.97	90.89	--	--	--	--	--	Slight	3	--	--	--
	11/14/2005	94.86	5.14	89.72	12.3	6.88	1120	Clear	Clear	Moderate	2.5	--	--	--
	5/31/2006	94.86	2.53	92.33	--	--	--	Clear	Slight	Strong	4	--	--	--
	11/10/2006		not collected		--	--	--	--	--	--	--	--	--	--
	5/18/2007	94.86	3.47	91.39	--	--	--	Clear	Slight	Strong	3.5	--	--	--
	11/16/2007	94.86	5.83	89.03	--	--	--	--	--	Moderate	2.5	--	--	--
MW-9	10/8/2004	94.99	4.14	90.85	--	--	--	--	--	Slight	4	--	--	--
	4/20/2005	94.99	3.02	91.97	--	--	--	--	--	Slight	3.5	--	--	--
	11/14/2005	94.99	4.09	90.90	12.3	6.92	843	Clear	Clear	Moderate	3	--	--	--
	5/31/2006	94.99	1.05	93.94	--	--	--	Clear	Slight	Moderate	6	--	--	--
	11/10/2006		not collected		--	--	--	--	--	--	--	--	--	--
	5/18/2007	94.99	2.67	92.32	--	--	--	Clear	Slight	Slight	5	--	--	--
	11/16/2007	94.99	3.88	91.11	--	--	--	--	--	Moderate	3	--	--	--
PZ-1	1/5/1996	96.89	5.54	91.35	--	--	--	Clear	--	None	4	--	--	--
	2/8/1996	96.89	4.84	92.05	--	--	--	Clear	--	Slight	3	--	--	--
	4/18/1996	96.89	3.80	93.09	--	--	--	--	--	--	--	--	--	--
	5/22/1996	96.91	3.64	93.27	--	--	--	--	--	--	--	--	--	--
	8/19/1996	96.91	4.05	92.86	18	7.34	1256	Clear	Slight	Slight	4	--	--	<1
	11/14/1996	96.91	4.90	92.01	10	7.61	1234	Clear	--	Slight	4	--	--	<1
	3/3/1997	96.91	4.38	92.53	8	7.11	1404	Clear	--	None	3.5	--	--	2.5
	6/5/1997	96.91	4.83	92.08	15	7.64	1306	Clear	--	None	4	--	--	<1
	12/3/1997	96.91	4.82	92.09	7.3	6.71	1500	Clear	None	None	10	0.1	0.0	<1
	6/16/1998	96.91	4.19	92.72	17.8	7.53	1272	Clear	None	Slight	4	1.0	0.0	1
	12/9/1998	96.91	5.62	91.29	12.1	7.4	1190	--	--	Slight	4	--	--	<1
	6/14/1999	96.91	2.88	94.03	13.4	6.86	1265	Clear	Clear	Moderate	4	--	--	<1
	12/13/1999	96.91	4.93	91.98	10.3	6.94	1200	Clear	Clear	Slight	5	1.0	--	<1
	6/19/2000	96.91	3.42	93.49	13.8	7.09	970	Clear	Clear	Slight	5	--	--	1
	12/20/2000	96.91	4.83	92.08	7.5	7.53	930	V Lt Br	Clear	None	4	1.0	--	1
PZ-1R	11/8/2002	95.14	5.03	90.11	--	--	--	Clear	Clear	None	5.5	1.0	--	<1
	10/8/2004	95.14	5.00	90.14	--	--	--	--	--	None	5	--	--	--
	4/20/2005	95.14	4.18	90.96	--	--	--	--	--	None	4	--	--	--
	11/14/2005	95.14	5.87	89.27	--	--	--	--	--	--	--	--	--	--
B-18A	6/30/2000	--	--	--	20.0	6.42	1240	Gr Brown	Slight	Slight	--	--	--	--

Notes
-- = Not recorded