Preferred Id: 6810

Interest Name: RAMSEY COUNTY RECYCLING CENTER

Address: 775 RICE ST

City: ST. PAUL

State: MN

Zip: 55117

Phone:

Interest Remarks

01/12/94 Recieved a letter from RP indicating that he has hired Bay West

01/01/95: File closed by Spills (Dan Hannan)

|11/15/96 LC CSR Adequate sent to Commerce.

7/2/01: CLM talked with Michael Reed at Ramsey County (651-773-4443). He said the above ground tanks had been removed and they attempted to dig out the contaminated soil. The tanks were the same as from leak #6810 so I told Mike we would re-open the file for leak #6810. He said the contamination was likely from over filling trucks and dripping from the hose. They removed between 5-10 yards of soil using visual and olfactory senses as their guide. They collected 3 bottom samples and they were still above action levels. I told him to hire a consultant who had proper equipement and try to remove the remaining soil. Once that is complete send in an excavation report. He said he would start to look for a consultant ASAP.

12/4/01: CLM reviewed the excavation report. They had to return to the excavation 3 times before they removed all of the contamination, at least down to below action levels. It appears that they were getting low enough headspace readings but each time the samples would come back greater than 100ppm DRO. The 3rd time was finally a charm and soil samples collected from the excavtion were non-detect. A total of 110 cubica yards of soil was excavated and no ground water was encountered. There is no documentation of soil treatment so the site cannot be closed until I receive that documentation. I left a voice message with Bob DeGroot asking for the soil treatment documentation.

12/12/01: CLM left a message with Mike Reed telling him the site is ready for closure we just need confirmation of soil treatment.

12/16/02: CLM reviewed the soil disposal information. The site can now be closed.

TSR040 Remarks Listing For Leaksite = 6810
Report Date: August 16, 1996

Leaksite ID# 6810	Tank Facility ID
RAMSEY COUNTY RECYCLING CENTER	SUPER CYCLE INC
Site Name	Responsible Party

LEAKSITE REMARKS

01/12/94 Recieved a letter from RP indicating that he has hired Bay West
01/01/95: File closed by Spills (Dan Hannan)
End of Remarks

To: MPCA SPILLS

MINNESOTA DUTY OFFICER INCIDENT REPORT

Report taken by: BRAD Date: 9/24/93 Time: 0831 Record #

CALLER

Name: TOM GLANDER
Firm/Agency: SUPER CYCLE
Address: 775 RICE ST
City: ST PAUL State: MN
County: Zip:
Phone (Day): 224-5081
Phone (Eve):

REPORTED SOURCE/RESPONSIBLE PARTY

Contact:
Firm/Agency:
Address:
City: State:
County: Zip:
Phone (Day):
Phone (Eve):

INCIDENT SPECIFICS Incident Date: OVERNIGHT Time: _____ hours

Location of Incident: BEHIND FACILITY

Legal: _____ Section: _____ Township: _____ Range: _____

Material(s) and Quantity DIESEL FUEL, 700 gallons

Area Affected: Air / (Surface Water) / Ground Water / (Soil) / Asphalt / Concrete
Sanitary Sewer / Storm Sewer / Tile Line

Other Info on Affected Area: _____

General Description of Area: Urban / Rural / Residential / Commercial / Industrial

Has material escaped from facility or facility property? (Yes) / No / Unknown

Has the released material been contained? Yes / (No) / Unknown

Incident Narrative

(Spill) / Air Release / Equip Malfnct / Shutdown / Sewage Bypass / Dumping / Complaint

FACILITY WAS VANDALIZED OVER NIGHT AND AN ABOVE GROUND FUEL TANK WAS INVOLVED. THE CONTENTS OF THE TANK WERE SPILLED ON TO THE PARKING LOT & THEN INTO AN ADJACENT MARSHY AREA.

Was there local emergency response to this incident? Yes / (No) Unknown

IS THIS A BUSINESS OR GOVERNMENT FACILITY
REPORTING IN COMPLIANCE WITH SARA TITLE III, SECTION 304? Yes / (No) Unknown
(If YES, complete the SARA Title III Supplement)

DUTY OFFICER NOTIFICATIONS (Agency, Name, Time)

PCA DAN HAWKINS 0837	

Minnesota Pollution Control Agency
520 Lafayette Road
St. Paul, Minnesota 55155
(612)296-6300

Hazardous Waste Division
Tanks and Spills Section
Spill Report
296-8100 or 649-5451 or 1-800-422-0798

Report Taken By: DTH
Date / Time of Report: 9/24/93 8:30 am

Date / Time Occurred / Discovered: 9/24/93

CALLER
Name: Tom Glander
Phone: 224-5081
Relationship to Site: Super Cycle

MATERIAL RELEASED/AMOUNT
700 gallons / diesel

SITUATION
AST vandelized, pump and dispensing system turned on.

SITE
Name: Ramsey Co. Recycling Center
Street: 775 Rice St.
City, Zip: St. Paul
County: Ramsey

DESCRIPTIVE SENTENCE
Spill to wetland

SITE OWNER/RESPONSIBLE PARTY
Name: Super Cycle
Street:
City, Zip:
Phone: 224-5081 Tom Glander

SIGNIFICANT INCIDENT? Y (N)

ACTIVITIES TO DATE
Emergency Declared? Y N
Tank Superfund: < $10,000 > $10,000
Work Order # _____
Site Visit? (Y) N Who? HANNAN
Clean-up/Response:
Bay West -- free product recovery, pads.
On-going Work: pad & boom maintenance

AREAS AFFECTED
(Soil) (Pavement)
Sewer: Sanitary Storm
Groundwater (Surface Water) wetland
Wells _____
Other _____

CONTACTS
Local Public Works
(County) Ramsey Co. Health Dept
MPCA Region _____
(State) DNR, MPCA
Federal _____
Other _____

Waste Generated: water sorbents (soil & vegetation?)
Disposal :
Submit Report? (Y) N
Case Transferred: _____
Date Case Closed: _____

RP
City
Spill #

White = File Yellow = Log

MINNESOTA POLLUTION CONTROL AGENCY
TANKS AND SPILLS SECTION
PETROLEUM TANK RELEASE REPORT

Report Taken By:

Date/Time Occurred: ?

Date/Time Reported: 9/24/93 8:30am Date/Time Discovered: SAME

LEAK# 6810 **PROJECT MANAGER:** JAS **USTIS #**

CALLER
Name: Tom Glander
Phone: 224-5081
Relationship to site: Super Cycle

SITE
Name: Ramsey County Recycling Center
Street: 775 Rice St.
City: St. Paul Zip: 55117
County: Ramsey Region: Metro

TANK OPERATOR
Name: Super Cycle Recycling
Street: SAME
City: Zip:
Contact Person: Tom Glander
Phone: 224-5081
Own tanks/product/property?
Share in profits?
Control over inventory, maintenace and tank decisions?

TANK OWNER
Name: Ramsey County.
Street:
City: St.: Zip:
Contact Person:
Phone:

SITUATION
Material Released/Amount: 700 gal / diesel

Source of Release: AST / vandelism

Release Discovery:

TANK INFORMATION

Contents	Size	Age	Removed	Condition	Registered
diesel	1000	?			

State or Federal Notification prior to removal:
Excavation Contractor: Consultant: Ray West

SOIL
Contaminated soil excavated: yes
Was it a total excavation: ?
Vapor readings: –
Soil samples: –
Borings: –
Native soil type:
Stockpiled properly/disposal arranged: yes, oil & water.
Other:

WATER

Groundwater in excavation: No

Free product present: Yes

Depth to groundwater:

City water/wells private/municipal: No

Surface water: yes - wetland

VAPORS

Sewers/buildings: —

SITE INFORMATION

Description of area: Industrial area with marsh/wetland to south

Previous release(s): None

INSTRUCTION GIVEN	**CONTACTS**
Hire consultant yes	Local Fire/Police
Submit report yes	Local Officials
Staff will call —	Regional Staff
Contact staff —	Other

CONCLUSIONS AND OTHER RELATED INFORMATION

- MPCA Spills overseeing cleanup and restoration with cooperation from MPCA Wetland Specialist, Mark Gernes and DNR Wetlands Enblom and Dantes.

Minnesota Pollution Control Agency

December 18, 2002

Mr. Tim Jackson
Waste Management
740 Westminster Street
St. Paul, Minnesota 55101

RE: Petroleum Tank Release Site File Closure
Site: Former Super Cycle Facility, 775 Rice Street, St. Paul
Site ID#: LEAK00006810

Dear Mr. Jackson:

We are pleased to let you know that the Minnesota Pollution Control Agency (MPCA) staff has determined that your investigation and/or cleanup has adequately addressed the petroleum tank release at the site listed above. Based on the information provided, the MPCA staff has closed the release site file.

Closure of the file means that the MPCA staff does not require any additional investigation and/or cleanup work at this time or in the foreseeable future. Please be aware that file closure does not necessarily mean that all petroleum contamination has been removed from this site. However, the MPCA staff has concluded that any remaining contamination, if present, does not appear to pose a threat to public health or the environment under current conditions.

The MPCA reserves the right to reopen this file and to require additional investigation and/or cleanup work if new information, changing regulatory requirements or changed land use make additional work necessary. If you or other parties discover additional contamination (either petroleum or nonpetroleum) that was not previously reported to the MPCA, Minnesota law requires that the MPCA be immediately notified.

You should understand that this letter does not release any party from liability for the petroleum contamination under Minn. Stat. ch. 115C (2000) or any other applicable state or federal law. In addition, this letter does not release any party from liability for nonpetroleum contamination, if present, under Minn. Stat. ch. 115B (2000), the Minnesota Superfund Law.

Please note that as a result of performing the requested work you may be eligible to apply to the Petroleum Tank Release Compensation Fund (Petrofund) for partial reimbursement of the costs you have incurred in investigating and cleaning up this petroleum tank release. The Petrofund is administered by the Petroleum Tank Release Compensation Board (Petro Board) and the Minnesota Department of Commerce. To learn more about who is eligible for reimbursement, the type of work that is eligible for reimbursement, and the amount of reimbursement available, please contact Petrofund staff at 651-297-1119 or 1-800-638-0418.

If future development of this property or the surrounding area is planned, it should be assumed that petroleum contamination may still be present. If petroleum contamination is encountered during future development work, the MPCA staff should be notified immediately.

For specific information regarding petroleum contamination that may remain at this leak site, please call the Leaking Underground Storage Tank File Request Program at 651/297-8499. The MPCA fact sheet *Request to Bill for Services Performed* must be completed prior to arranging a time for file review.

Thank you for your response to this petroleum tank release and for your cooperation with the MPCA to protect public health and the environment. If you have any questions regarding this letter, please call me at 651/297-8580.

Sincerely,

Chris McLain
Project Manager
Petroleum Remediation Unit
Petroleum and Landfill Remediation Section
Majors and Remediation Division

CLM:tf

cc: Shari Moore, St. Paul City Clerk
Tim Fuller, St. Paul Fire Chief
Michael Reed, Ramsey County
Bill Tepley, STS Consultants
Minnesota Department of Commerce Petrofund Staff

Minnesota Pollution Control Agency

November 4, 1994

Thomas Glander, President
Super Cycle, Inc.
775 Rice Street
St. Paul, Minnesota 55117

RE: Cleanup Status of Leak # 6810, Super Cycle Inc., St. Paul

Dear Mr. Glander:

The Minnesota Pollution Control Agency (MPCA) has concluded its evaluation of the wetland area following a diesel fuel release on September 24, 1993, at Super Cycle Inc. The MPCA in conjunction with the Minnesota Department of Natural Resources (DNR) has determined that there should not be any long term significant impact as a result of the spill. This letter serves as closure for the cleanup portion of the release. However, the MPCA and the DNR reserve the right to reopen this file at any time if conditions warrant.

If you have any question I can be reached at 612/297-8672. Thank you for your time and cooperation.

Sincerely,

Dan Hannan
Spills and Emergency Response Team
Spills and Aboveground Tanks Unit
Tanks and Spills Section

DH:tf

cc: David Koubsky, Associate Scientist, SERVICE Environmental Engineering
Marilyn Danks, DNR, Ecological Services
Mark Gernes, MPCA, Water Quality

Super Cycle incorporated
Complete Recycling Services

775 Rice Street
St. Paul, Minnesota 55117
(612) 224-5081
FAX (612) 224-0315

July 7, 1994

Mr. Dan Hannan
Spills and Emergency Response Team
Tanks and Spills Section
Minnesota Pollution Agency
520 Lafayette Road
St. Paul, Minnesota 55155–3898

RE: Leak #00006810
Ramsey County Recycling Center
775 Rice Street
St. Paul, Minnesota 55117

Mr. Hannan,

This letter summarizes the emergency response and site clean–up effort undertaken in response to the September 24, 1993 release of #2 diesel fuel at the Ramsey County Recycling Center. According to Super Cycle records, approximately 650 gallons of #2 diesel fuel was spilled onto a paved parking area, ran down an earthern embankment and into a marsh adjacent to the property. Response efforts by Bay West, Inc. recovered up to 591 gallons of the released fuel, with residual amounts remaining in excavated, stockpiled soil and in–situ near surface soil of the marsh.

Attached is a copy of the October 15, 1993 letter from Mr. Steven Gross of Bay West documenting the emergency response activities conducted on September 24th. A copy of this letter was submitted to the MPCA, Mr. Dan Hannan. During this effort, Bay West accumulated 38 barrels of fuel/water mixture from the marsh. The barrels were stored on site to allow the mixture to separate for later decanting.

In addition to the emergency response activities of September 24, Bay West, Inc. was on–site performing additional activities prescribed by Mr. Hannan. On September 28, November 9 and November 24, they cut and barrelled vegetation impacted by fuel oil. The combined cuttings filled nine (9) barrels, with a total estimated weight of 1575 pounds.

On November 9 and 24, Bay West removed the separated #2 diesel from the 38 barrels of liquid collected during the emergency response. Samples of the remaining liquid were analyzed by Bay West, Inc. and the results used to obtain a one time waste disposal permit from the Metropolitan Waste Control Commission (MWCC). A copy of the MWCC permit is attached. On January 18 and 26, 1994, Super Cycle personnel estimated the volume of liquid to be about 1600 gallons, and poured the contents of the barrels into the sewer.

In November, 1993, approximately 20 cubic yards of impacted soil was excavated from the soil embankment separating the paved lot and the marsh. Visual and olfactory observations were used to differentiate impacted soil from the clean soil. The soil remains stockpiled and covered on-site pending disposal, anticipated in July or August, 1994.

All solid and liquid wastes, except for:

- o the estimated 1600 gallons discharged to the MWCC sewer system, and
- o the 20 cubic yards of soil pending disposal,

generated during the response actions were manifested to Medical Safety Systems, Inc. (MSSI) in Cannon Falls, Minnesota for disposal by thermal destruction. According to MSSI invoice, copies are attached, the wastes were destroyed on December 21, 1993 and March 4, 1994. An estimated 591 gallons of #2 diesel fuel were recovered based on calculations derived from the waste manifest records. Table 1 summarizes the estimate based on the calculated weight of the liquids destroyed, and an estimated unit weight of 7.6 pounds per gallon for #2 diesel fuel.

Table 1
WASTE DISPOSAL SUMMARY
Medical Safety Systems, Inc.

		Total Waste Manifested	6813 Pounds
Solids			
Description	Barrels	Unit Weight (lbs.)	Total Weight
Impacted Vegetation	9	175	1575 lbs
Absorbent Pads	3	50	150 lbs
Absorbent Compound	2	300	600 lbs
Liquids			
Weight of Liquid Waste Incinerated (Total Wt.-Solids Wt.)			4488 Pounds
Volume of Liquid Waste in gallons(Liquid Wt=7.6 ppg)			591 gallons

Based on our field observations, the reemergence of vegetation in the impacted area, the opinion of our consultants and our calculations, we believe the response action related to the release has been very effective. When we complete the disposal of the double boom and the stockpiled soil, we hope that you will concur with us that no further response actions are necessary.

I hope the information I've presented in this letter meets your needs and answers the questions you posed. If you want additional information, please call me at 224-5081.

Sincerely,

Thomas C. Glander
President
Super Cycle, Inc.

att

cc: James Joslyn, MPCA

Five Empire Drive
St. Paul, Minnesota
55103-1867

FAX 291-0099
1-800-279-0456

October 15, 1993

Mr. Thomas C. Glander
Supercycle, Inc.
775 Rice Street
St. Paul, MN 55117

RE: Spill Response Summary - Leak #6810

Dear Mr. Glander:

The following is a brief narrative of Bay West's spill response efforts at the Supercycle facility located at 775 Rice Street.

On Friday, September 24, 1993, at approximately 9:30 A.M., Bay West received a telephone call from you to respond to what was described as a 800-gallon release of fuel oil. The release was described as impacting the parking lot and an adjacent wetland area. You also indicated that the release was the result of an act of vandalism which occurred sometime during the previous evening, and that the flow of fuel oil had been stopped.

Bay West dispatched a response crew in two response vehicles including a vacuum (vac) truck. Upon arrival Bay West personnel observed that a portion of the parking lot on the southeast parcel of the site was covered with fuel oil and floor-dri. It was also noted that an undetermined volume of fuel oil was located in a low, marshy area, southeast of the fenced parking area.

After meeting with on-site representatives from Supercycle (Thomas Glander) and the Minnesota Pollution Control Agency (MPCA) (Dan Hannon), and upon assessing the situation, Bay West crew deployed two absorbent (sorbent) booms (one primary [inner] and one secondary [outer] boom) in the low marshy area where the fuel oil had collected. The area where the spill was contained was approximately 50 to 60 feet in circumference. The marshy area also serves as a collection point for storm water runoff.

Once the booms were staked in place, product recovery operations were conducted using the vac truck. Since marshy vegetation prevented easy collection of free product, Bay West ceased direct product recovery and instituted the use of an elastic skimmer connected to the suction hose of the vac truck. The elastic skimmer was placed in an area of relatively low vegetation growth to facilitate product recovery. A trash pump was used to gently "wash" or push the product through the vegetation to the collection site. This method ensured that product would not be driven further into the substrate and cause emulsification or mixing of the product. Absorbent pads were also deployed in order to "soak-up" pockets of free product.

Water and free product were placed in DOT-specification drums pending disposition. Likewise, soiled absorbent pads were placed in separate DOT-specification drums.

Concurrent with the product recovery operation, floor-dri that had been applied to product on the asphalt, was swept and placed in DOT-specification drums pending disposition. All drums were labeled and stored in an area of low traffic.

The primary and secondary sorbent booms were left in place to collect any residual free product that could be "flushed-out" as the result of a precipitation event and storm water flow.

Bay West has been monitoring the site on a periodic basis to change and containerize spent sorbents, and deploy new sorbents as necessary.

Bay West proposes that the fuel oil-impacted vegetation be cut and removed for disposal, and that residual fuel oil in the root zone be allowed to undergo natural biodegradation/attenuation processes. Bay West further recommends that the site be inspected once a month; visible product will be removed with sorbents and containerized. These inspections would continue as necessary through the winter months.

If the following spring thaw shows no signs of free product or distressed vegetation, a request will be made for environmental closure of the site.

The cost for removal of vegetation in the affected area is estimated to be $765.65. Transportation and disposal of affected vegetation is estimated to be $552.00.

The estimated cost for monthly inspections is $148.74/month (commencing in November 1993 and concluding in May 1994). This cost does not include the cost for containers or disposal of soiled sorbents, since the volume generated is not known. In general, drums will cost approximately $34.71/drum, and disposal will be about $0.92/pound including transportation. All work will be done on a time and materials basis according to Bay West's Fee Schedule, which you were provided on an earlier date.

If you have any questions or if I can be of further service, please call me at 291-0456.

Sincerely,

Dennis Littfin

Dennis J. Littfin
Hydrogeologist

Stephen A Gross

Stephen A Gross REP, CHMM
Manager,
Environmental Compliance/Waste Management Services

Bay West

Five Empire Drive
St. Paul, Minnesota
55103-1867

FAX 291-0099
1-800-279-0456

January 7, 1994

Mr. Tom Glander
President
Super Cycle, Inc.
775 Rice St.
St. Paul, MN 55117

Dear Mr. Glander:

Per our telephone conversation, enclosed is a copy of Metropolitan Waste Control Commission's permission to sewer the drummed waste water. Please record the number of drums and the total volumes of waste water discharged.

If you have any questions, please call me.

Sincerely,

Stephen A. Gross

Stephen A. Gross, REM, CHMM
Manager, Environmental Compliance

SG:jb

encls.

Metropolitan Waste Control Commission
Mears Park Centre, 230 East Fifth Street, St. Paul, Minnesota 55101-1633
612 222-8423

Date: January 5, 1994

To: Stephen Gross
Bay West, Inc.
5 Empire Drive
St. Paul, MN 55103-1867

RE: MWCC DISCHARGE APPROVAL

Responsible Party/Site: Supercycle, Inc.
775 Rice Street
St. Paul, MN 55103

Based on the request letter and data provided on: 12/27/93 **the MWCC hereby approves the discharge of:** wastewater generated during the cleanup of a diesel fuel spill in a nearby wetland.

Volume: Approximately 2000 gallons

Discharge Point: Sanitary sewer at Supercycle, Inc. in St. Paul

Approval Effective Date- Start: 1/5/94 **End:** 1/31/94

Contact MWCC 24 hours prior to discharge. Yes: No: X

Submit formal report (blank attached) within 30 days of discharge. Yes: No: X **Submit analysis.** Yes: No: X

This is a one time only approval for the waste described herein. It does not release the Responsible Party from any conditions/regulations set forth by the MPCA, the city in which the discharge takes place, and/or any other agency which regulates the waste being discharged. In addition, this approval does not release the Responsible Party or any consultant/contractor involved from any subsequent liabilities associated with conducting this discharge.

If there are any questions, please contact me at 772-7005.

Sincerely,

Robert H. Golden

Robert H. Golden, P.E.
Senior Engineer
Industrial Waste Division

cc: L. Engen

Post-It™ brand fax transmittal memo 7671	# of pages ▸ 1
To STEPHEN GROSS	From BOB GOLDEN
Co. BAY WEST	Co. MWCC
Dept.	Phone # 772-7005
Fax #	Fax #

MEDICAL SAFETY SYSTEMS, INC.
2234 HWY 20 NORTH, P.O. BOX 266
CANNON FALLS, MN 55009

INVOICE NO.	114853
CUSTOMER NO.	1250X

INVOICE

BILL TO:

Bay West, Inc. - Supercycle
5 Empire Drive
St. Paul, MN 55103

GENERATOR:

Bay West, Inc. - Supercycle
775 Rice Street
St. Paul, MN 55103

Telephone: 612-224-5081
Contact: Tom Glander/ Tim McGraw

DATE	SHIP VIA		TERMS
12/20/93			* PAYMENT DUE UPON RECEIPT *

PURCHASE ORDER NUMBER	ORDER DATE	SALESPERSON	JOB NUMBER
	12/20/93	01	

QUANTITY ORDERED	QUANTITY SHIPPED	ITEM NUMBER / ITEM DESCRIPTION	UNIT PRICE	AMOUNT
1.00	1.00	WDIS	600.72	600.72
		Waste disp 12/02/93 manifest 0154210 destroy 12/21/93		
		Serial Number(s): 0339476 thru 0339494		
Picked Up 18		BX03: 49.3 lb 46.7 lb 34.1 lb 27.4 lb 51.6 lb 48.5 lb 40.5 lb 29.4 lb 42.1 lb 70.7 lb 44.4 lb 61.8 lb 49.0 lb 28.6 lb 27.3 lb 22.2 lb 32.1 lb 24.5 lb	* 730.2 lbs*	
Picked Up 1		BXH3: 20.7 lb	* 20.7 lbs*	
			TOTAL ** 750.9 lbs**	

RECEIVED JUN 12 1994

93435

NON TAXABLE	*TAXABLE	SALES TAX	FREIGHT	INVOICE TOTAL
		0.00	0.00	600.7

MEDICAL SAFETY SYSTEMS, INC.
2234 HWY 20 NORTH, P.O. BOX 266
CANNON FALLS, MN 55009

117500
CUSTOMER NO 1250X

INVOICE

BILL TO:

Bay West, Inc. - Supercycle
5 Empire Drive
St. Paul, MN 55103

GENERATOR:

Bay West, Inc. - Supercycle
775 Rice Street
St. Paul, MN 55103

Telephone: 612-224-5081
Contact: Tom Glander/ Tim McGraw

DATE			* PAYMENT DUE UPON RECEIPT *
02/28/94			

SHIPPED VIA	02/28/94	01	

ORDERED	SHIPPED	ITEM DESCRIPTION		
1.00	1.00	WDIS Waste disp 02/01/94 manifest 0162632 destroy 03/04/94 Serial Number(s): 0215818 thru 0215820 thru 0215823 thru 0215825 thru 0215826 0352639 thru 0352752 thru 0352753 0352815 thru 0352818 0352820 thru 0352822 0352824 thru 0352837 0352839 thru 0352849 0352901 thru 0352912 0352944 thru 0352954 0352956 thru 0352978 0461002	4849.76	-4849.76
Picked Up 87		MISC: 150.8 lb 180.0 lb 256.4 lb 208.4 lb 157.4 lb 28.0 lb 31.2 lb 34.6 lb 30.0 lb 31.0 lb 31.8 lb 36.8 lb 34.2 lb 34.2 lb 33.8 lb 37.4 lb 34.2 lb 34.2 lb 36.0 lb 36.0 lb 34.6 lb 34.2 lb 34.8 lb 35.6 lb 37.4 lb 37.2 lb 34.4 lb 34.0 lb 35.0 lb 37.4 lb 36.0 lb 36.0 lb 36.8 lb 39.0 lb 35.6 lb 37.4 lb 37.2 lb 36.4 lb 37.8 lb 39.0 lb 284.0 lb 35.2 lb 40.4 lb 40.2 lb 40.0 lb 40.0 lb 40.4 lb 40.2 lb 40.2 lb 41.0 lb 40.4 lb 39.4 lb 45.0 lb 45.0 lb 40.2 lb 40.2 lb 40.2 lb 40.4 lb 40.0 lb 40.0 lb 45.0 lb 42.2 lb 40.2 lb 40.0 lb 40.0 lb 40.2 lb 40.0 lb 25.0 lb 374.2 lb 43.4 lb 41.2 lb 20.6 lb 42.2 lb 35.6 lb 41.2 lb 51.6 lb 89.0 lb 34.0 lb 40.6 lb 42.4 lb 396.0 lb 255.0 lb 257.0 lb 110.0 lb 158.4 lb 288.4 lb 194.2 lb	* 6062.2 lbs*	

NONTAXABLE	TAXABLE	SALES TAX	TOTAL	*** PAID ***	*** INVOICE TOTAL ***
4849.76	0.00	6.500% 0.00		0.00	4849.7

ADDITIONAL CHARGES TOTAL PAID BALANCE DUE

SERVICE
Environmental Engineering Corporation
2325 Endicott Street, St. Paul, MN 55114
(612) 644-6680, Fax (612) 644-7008

June 21, 1994

Mr. James Joslyn
Minnesota Pollution Control Agency
Project Manager
Cleanup Unit II
Tanks and Spills Section
520 Lafayette Road North
St. Paul, Minnesota 55110

RE: Project Update Super Cycle Recycling Leak Number 6810

Dear Mr. Joslyn:

SERVICE Environmental Engineering Corporation is assisting Super Cycle Recycling to meet the requirements of the MPCA Tanks and Spills Section for site closure. Correspondence dated October 1, 1993 from Mr. Dan Hannon outlined required remedial action prior to reassessing the site for closure. Super Cycle has performed the tasks required by Mr. Hannon and is requesting a site meeting to consider site closure. Mr. Hannon, with the Emergency Response group, has expressed an interest to participate in the meeting to evaluate the cleanup effort.

If you have any questions regarding the project status, please feel free to contact me at (612) 644-6680.

David J. Koubsky
Associate Scientist

cc: Mr. Thomas C. Glander
Super Cycle

Mr. Dan Hannon
MPCA

Minnesota Pollution Control Agency

January 7, 1994

Mr. Tom Glander
Super Cycle Recycling
775 Rice Street
St. Paul, Minnesota 55117

Dear Mr. Glander:

RE: Petroleum Storage Tank Release Investigation and Corrective Action
Site: Ramsey County Recycling Center, 775 Rice Street, St. Paul
Site ID#: LEAK00006810

Notice of Release

The Minnesota Pollution Control Agency (MPCA) has received notification that a release of petroleum has occurred from storage tank facilities which you own and/or operate that has resulted in contamination of soil and/or ground water.

Legal Obligations

Federal and state laws require that persons legally responsible for storage tank releases notify the MPCA of the release, investigate the extent of the release and take actions needed to ensure that the release is cleaned up. A person is considered legally responsible for a tank release if the person owned or operated the tank either during or after the release, unless specifically exempted under the law. See Minn. Stat. § 115C.021 (1992). If you believe that you are not legally responsible for this storage tank release, please submit a written explanation of your position to the MPCA within 30 days.

If you are not legally responsible for the release, but hold legal or equitable title to the property where the release occurred, you may volunteer to take corrective action. Responsible persons and volunteers who take corrective action may be eligible for reimbursement for a major portion of the costs of corrective action. The legislature has established the Petroleum Tank Release Cleanup Account to reimburse responsible persons and volunteers. The account is administered by the Petroleum Tank Release Compensation Board (Petro Board) which is part of the Department of Commerce. Final decisions regarding the amount of reimbursement are made by the Petro Board. All questions about eligibility and reimbursement should be directed to the Petro Board at 612/297-1119 or 612/297-4203.

Request to Take Corrective Action

The MPCA staff is requesting you to take the steps necessary to investigate and clean up the release in accordance with the enclosed MPCA fact sheets. The MPCA requires that you conduct a site investigation to define the full extent and magnitude of the soil and/or ground water contamination caused by the release. A report which details the results of the investigation or concludes that excavation was sufficient to address the release for cleanup (Excavation Report and/or Remedial Investigation/Corrective Action Design) must be submitted to this office within 10 months of the date of this letter. Please refer to MPCA fact sheets for information pertaining to the degree of investigative work necessary at petroleum release sites.

Sites with free product, drinking water supply impacts, fire or explosion hazards, or ground water impacts which pose a significant threat to public health or the environment, are considered high priority for staff review. If one or more of these situations apply to your site, a Remedial Investigation/Corrective Action Design report must be submitted within 90 days. In addition, if you know or discover that there is free-floating petroleum in a well, excavation, or borehole, you must notify the MPCA within 24 hours and IMMEDIATELY begin interim free product recovery.

If you have not already done so, the MPCA recommends that you hire a qualified consulting firm registered with the Petro Board that has experience in conducting petroleum release site investigations and in proposing and implementing appropriate corrective actions. A list of registered contractors is available from the Department of Commerce. The MPCA reserves the right to reject proposed corrective actions if the requirements of the site investigation have not been fulfilled. Please note that, under Minn. Rules pt. 2890.0075, subp. 2, you must solicit a minimum of two competitive proposals on a form prescribed by the Petro Board to ensure that the consulting costs are reasonable. Questions about bidding requirements should be directed to Petro Board staff.

Required Response

MPCA staff requests a written or verbal response to this letter within 30 days. In your response, please tell us whether you intend to comply with the above requirements. If you do not respond within this time frame, the MPCA staff will assume that you do not intend to comply, in which case the MPCA Commissioner may order you to take corrective action. If you do not comply with the Commissioner's order, it may be enforced in court or, alternatively, the MPCA could use state funds to clean up the release and then request the Attorney General to recover its costs from you through legal action. Failure to cooperate with the MPCA in a timely manner will also result in reduced reimbursement from the Petro Board. See Minn. Rules pt. 2890.0065, subp. 1, item C.

The enclosed fact sheets will provide you with the information necessary to complete a successful investigation and cleanup.

If you have any questions concerning this letter or need additional information, please contact me at 612/297-8607. Please reference the above LEAK # in all correspondence.

Sincerely,

E. Edwin Baker

for James Joslyn
Project Manager
Cleanup Unit II
Tanks and Spills Section

JJ:nh

Enclosures

cc: Molly O'Rourke, City Clerk, St. Paul
Tim Fuller, Fire Chief, St. Paul

Bridge
Railroad Tracks
Grasses
Strings of Sorbent Boom
CATTAILS
Spill Area
Embankment
Security Fence
TANK
OFFICE
Entrance
Rice Street
Sycamour St.
N

RESPONSE TO DIESEL FUEL RELEASE, RAMSEY COUNTY RECYCLING CENTER

On 9/24/93 I received a call from the Duty Officer that an AST at the Ramsey Co. Recycling Center, 775 Rice St., Saint Paul, had been vandelized releasing approximatelty 700 gallons of diesel fuel. The 1000 gallon tank, completly diked by concrete, is located at the back end or south east corner of the property. The vandles removed the lock on the dispensing system and turned on the pump. Diesel flowed over the back property, under the security fence, and into a storm water rention area that had much vegetation including cattails. The impacted area is estimated to be about 3000 square feet.

Responding to the scene by 9:00am on 9/24/93 I spoke with Tom Glander, Operations Manager for Super Cycle--the contracted company coordinating Ramsey Co.'s recycling program. Mr. Glander indicated that the business property was owned by the county but the tank was owned and operated by Super Cycle. I surveyed the 1.5 acre wetland area and found much free product on top of several inches of water. I informed Mr. Glander that a cleanup company would need to be hired immediately. He proceeded to hire Bay West Inc.

Notification was made to the City of Saint Paul to have Public Works determine drainange and flow in the area. The Department of Natural Resources and MPCA Wetlands staff were also notified.

Bay West arrived with a vacuum truck, support truck and their emergency response van. Bay West proceeded to recover diesel and water into barrels which are stored on site. A small portion of the impacted area was cleared out to allow a drum skimmer to operate. Workers created several channels and pushed the fuel towards the skimmer. Low pressure washing was also used to move fuel to the skimmer. Sorbent pads were uesd to absorb isolated pockets which could not be recovered by the skimmer. Two strings of sorbent boom were placed in trenches at the outter edge of the spill to prevent fuel movement into the cattails.

I raised concern that the work by the cleanup crew would further damage the area as personnel were trampling vegetation and pushing fuel into the sediments. It was decided that Bay West should continue to remove fuel including that found in isolated pockets, and maintain booms and pads as necessary. It was proposed that after the area dries-up later in the fall that vegetation and soil may need to be removed. Reinspection by MPCA Wetlands specialist and DNR will be made with further work to be determined.

On the morning of 9/27/93 I made a return visit with Dick Kable and observed many sorbent pads that were completely saturated. It was conveyed to Tom Stewart, Super Cycle, that Bay West will need to return to change pads out and monitor regularly.

Dan Hannan, Spills
9/27/93

On 9/29/93 Jack Enblom, Marilyn Danks (DNR), Mark Gernes (MPCA) and myself went to the site and evaluated cleanup efforts and assessed damage. Conclusions drawn included:

* Area is a seasonal or intermitant wetland that is likely fed by surface

runoff rather than inlet sources (sewers, springs, etc.).

* The wetland area likely harbors little waterfowl or larger mammals (beavers, muskrat, etc.). Field mice are expected to be the only inhabitants but the operator of the facility said he has heard phesant cackle from time to time.

* Additional cleanup was determined necessary and options were pursued. There was much concern for damage caused by additional cleanup.

* It was decided that further cleanup was necessary and should consist of removing the heavily oiled vegetation. This should be done by cutting rather than pulling so the root structure of the grasses are left in tact. Additional pockets of oil should be padded up. Soil should be removed from the bank where the fuel entered the wetland. Sorbent booms should remain in place and changed out as needed. In general, the area should be monitored at least weakly through next spring to recover fuel that may work its way out the sediments. At this time it was decided that soil in the impacted area should not be removed so that root structure and seed banks are saved. The area should be reassessed next spring and summer to see how well the area has recovered.

* Marilyn Danks, Jack Enbloom and Mark Gernes will submit a memo to the file describing observations and recommendations.

Dan Hannan, Spills
9/29/93

From: MNPCA::GERNES_M "Mark...297-3363" 1-OCT-1993 08:03:53.06
To: HANNAN_D
CC: KNUDSEN_M,GERNES_M
Subj: Recommendations on spill response in a wetland at Super Cycle, 775 Rice

I received a call from Dan Hannan of the HW Spills team at about 10:00 am on 9/24/93. We agreed Dan would try to get more information to me and that I would try to visit the site. We were unable to connect again that day but I spoke to Dan the morning of 9/27 and agreed to go out and look at the site. I visited the site from about 11:45 to about 1:15. During that time I qualitatively survied the site, including walking the perimeter of the wetland, took several photographs to document the site and completed the initial documentation forms developed over the last several months of wetland incident response planning efforts. [I saw this as a good opportunity to test the completeness and utility of these forms.]

Site observation were as follows:

The wetland is approximately 2 acres in size and is a wetland type 3 (PEM1F) which is likely semipermanently flooded. Approximately 700 gallons of diesel fuel was released to the wetland by vandelism of an above ground storage tank. The fuel impacted about 1/4 acre of the wetland. In response to the release the RP Super Cycle hired Baywest who recovered product using a combination of the following:

Vacuum truck
Squedgee and low pressure water to push pooled product toward

From: MNPCA::GERNES_M "Mark...297-3363" 1-OCT-1993 09:09:28.46
To: HANNAN_D
CC: KNUDSEN_M,GERNES_M
Subj: Oops, Super Cycle spill documentation continued

The response methods included:

Vacuum truck on pooled product
Squedgee and low pressure water to move additional pooled product toward vac. truck recovery.
Placement of outer perimeter booms, slightly dug in, to contain surface migration during subsequent precip events.
Absorbant pads.

Much of the vegetation in the impact area was flattened by the above response activities. Though this is of concern most of the flattened veg. is Reed Canary grass which an aggressive exotic grass common to many of our shallow disturbed wetland environments. Though I have no idea how sensitive Reed Canary is to diesel fuel it is an aggressive invader both from seed and vegetatively. The relative unimpacted remainder of the wetland had ample Reed Canary to revegetate the impact area if the existing veg. is killed by contact with the product. Perhaps of more concern is the emuslification of fuel with the shallow water and upper sediments resulting from the foot traffic to accomplish the above response actions.

This wetland is entirely within an urbanized environment, likely having been filled on three sides for rail, highway and parking lot construction. The resulting wetland still provides some wildlife habitat (red-winged black birds and small mammals), stormwater retention, unknown recreational benefit and unknown ground water interactions.

On 9/29/93 I visited the site briefly with Dan Hannan, Marylin Danks and Jack Emblom.

During that visit we discussed the need for additional response especially removal of saturated above ground vegetation in an effort to remove additional product. As pointed out above I dought this would be very detrimental to Reed Canary recovery at this site. I am concerned though that additional compaction of the wetland soils may contribute to further long term impacts to the hydrology of this little wetland. Therefore my recommendation would be to minimize the area from which veg. is raked off. I do think that addition of dried straw or other similar material, as Jack E. suggested, to soak up product is worth trying prior to raking off the veg.

Minnesota Pollution Control Agency

October 1, 1993

Mr. Tom Glander
Operations Manager
Super Cycle Inc.
775 Rice Street
St. Paul, Minnesota 55117

Dear Mr. Glander:

RE: Response to Diesel Fuel Release, Ramsey County Recycling Center

On September 24, 1993, the State Duty Officer received a call regarding vandalism to the Ramsey County Recycling Center, 775 Rice Street. As a result, an aboveground storage tank had its contents emptied spilling approximately 700 gallons of diesel fuel. The tank, completely diked by concrete, is located in the back or south east corner of the property. The vandals removed the lock on the dispensing system and turned on the pump. Diesel flowed over the back property, under the security fence, and into area that has been determined to be a wetland. The impacted area is estimated to be about 2000 square feet.

During a site visit on September 24, 1993, you indicated to me that the property is owned by Ramsey County but the tank is owned and operated by Super Cycle Inc. Surveying the 1.5 acre wetland area I found much free product on top of several inches of water. I informed you that a cleanup company would need to be hired immediately. You proceeded to hire Bay West, Inc.

Notification was made to the City of St. Paul and Ramsey County. I requested city personnel to respond with maps to determine drainage and flow in the area. Apparently the area receives water primarily through runoff. The Minnesota Department of Natural Resources (DNR) and MPCA Water Quality staff were also notified.

Bay West, Inc. arrived on September 24, 1993, with a vacuum truck, support truck and their emergency response van. Bay West, Inc. proceeded to recover the diesel and water mixture into barrels which are currently stored on site. A small portion of the impacted area was cleared out to allow a drum skimmer to operate. Workers created several channels and pushed the fuel towards the skimmer. Low pressure washing was also used to move fuel to the skimmer. Sorbent pads were used to absorb pockets of fuel which could not be recovered by the skimmer. Two strings of sorbent boom were placed in hand dug trenches at the outer edge of the spill to prevent fuel movement into nearby cattails.

On September 29, 1993, Jack Enblom and Marilyn Danks of the DNR Ecological Services, Mark Gernes, MPCA Water Quality, and myself went to the site to evaluate cleanup efforts and assess damage. Conclusions drawn included:

* The area is a seasonal or intermittent wetland that is likely fed by surface runoff rather than inlet sources (sewers, springs, etc.).

* The wetland area likely harbors little waterfowl or larger mammals (beavers, muskrat, etc.). Field mice are expected to be the only inhabitants although you indicated that you heard pheasant cackle from time to time.

* Additional cleanup was determined necessary and options were pursued. There was concern for potential damage caused by additional cleanup.

Further cleanup should consist of removing the heavily oiled vegetation. This should be done by cutting rather than pulling so the root structure of the grasses are left in tact. Additional pockets of oil should be padded up. Soil will need to be removed from the bank where the fuel entered the wetland. It should be stored on plastic and covered pending disposal. Sorbent booms should remain in place and be changed as needed. In general, the area should be monitored at least weekly through next spring with recovery of fuel as it accumulates. At this time, it has been decided that soil in the impacted area should not be removed so that root structure and dormant seeds are preserved. The area will need to be reassessed next spring and summer to see how well it has recovered.

Your consultant (Bay West, Inc.) should be able to provide continual monitoring of the sorbent boom and assist in screening the removal of soil from the bank as well as disposal of wastes. As discussed, the MPCA's Leaking Underground Storage Tank (LUST) program will ultimately be responsible for issuing closure for the site and will administer reimbursement for cleanup expenses.

If you have any questions regarding cleanup efforts please feel free to contact me at 612/297-8672. If you have tank or reimbursement questions please contact the LUST Project Manager, Jim Joslyn, at 612/297-8607.

Thank you for your time and cooperation.

Sincerely,

Dan Hannan
Pollution Control Specialist
Tanks and Spills Section

DH:baj

cc: Mark Gernes, MPCA
Marilyn Danks, DNR
Jack Enbloom, DNR

Minnesota Pollution Control Agency

FACSIMILE TRANSMITTAL SHEET

DATE: 10/1/93

DOCUMENT STATUS FOR FAXING:

___ DRAFT
X FINAL COPY
___ AS YOU REQUESTED
___ FOR YOUR INFORMATION
___ FOR APPROVAL
___ FOR REVIEW/COMMENTS
___ AS WE DISCUSSED

TO: Tom Glander

COMPANY/AGENCY: Super Cycle

FACSIMILE NO: ( ) 224-0315

SUBJECT: Letter

FROM: Dan Hannan

TELEPHONE NUMBER: (612) 297-8672

AGENCY: MINNESOTA POLLUTION CONTROL AGENCY

FACSIMILE NUMBER: (612) 297-8676

TOTAL NUMBER OF PAGES (INCLUDING COVER SHEET): 5

COMMENTS:

ANY QUESTIONS REGARDING TRANSMITTAL, PLEASE CALL (612)297-8503, TDD (612) 297-5353 or Greater Minnesota TDD 1-800-627-3529.

DEPARTMENT : NATURAL RESOURCES
Division of Fish and Wildlife

STATE OF MINNESOTA
Office Memorandum

DATE : October 5, 1993

TO : Dan Hannan
Pollution Control Agency

RECEIVED
OCT 07 1993
MPCA, HAZARDOUS WASTE DIVISION

FROM : Marilyn Danks, Aquatic Biologist
Ecological Services Section

PHONE : 296-0777

SUBJECT : DIESEL FUEL SPILL AT THE RAMSEY COUNTY RECYCLING CENTER

As per our inspection September 29, 1993 of the diesel fuel spill at Ramsey County Recycling Center, we agreed diesel soaked vegetation needed to be removed, especially along the eastern portion of the site. Jack Enblom suggested using dry hay or straw as an absorbent. The process of raking the hay or straw up would also remove much of the fuel soaked vegetation without removing the roots. We also discussed removing the vegetation and surface soil along the bank and felt the bank would easily erode if not stabilized.

The site consisted mostly of grasses (reed canary) with some shrubs. Soils were spongy. This area is adjacent to a cattail marsh which was not affected by the spill. Maintaining the booms along that edge of the cattails throughout the winter may keep fuel from seeping into the area during thaw periods and from spring runoff. The cattail area will provide habitat to wildlife this winter and nesting sites next spring, therefore, effort should be made to protect it from diesel fuel.

c: Jack Enblom, DNR
Mark Gernes, PCA
Steve Enger, DNR

Bay West
Bay West Inc
Five Empire Drive
St. Paul, Minnesota
55103-1867
612-291-0456
FAX 291-0099
1-800-279-0456

October 15, 1993

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 2

To JAMES JOSLYN	From BOB HAVRILAK
Co. MPCA	Co. SERVICE
Dept.	Phone # 644-6680
Fax # 297-8676	Fax #

Mr. Thomas C. Glander
Supercycle, Inc.
775 Rice Street
St. Paul, MN 55117

RE: Spill Response Summary - Leak #6810

Dear Mr. Glander:

The following is a brief narrative of Bay West's spill response efforts at the Supercycle facility located at 775 Rice Street.

On Friday, September 24, 1993, at approximately 9:30 A.M., Bay West received a telephone call from you to respond to what was described as a 800-gallon release of fuel oil. The release was described as impacting the parking lot and an adjacent wetland area. You also indicated that the release was the result of an act of vandalism which occurred sometime during the previous evening, and that the flow of fuel oil had been stopped.

Bay West dispatched a response crew in two response vehicles including a vacuum (vac) truck. Upon arrival Bay West personnel observed that a portion of the parking lot on the southeast parcel of the site was covered with fuel oil and floor-dri. It was also noted that an undetermined volume of fuel oil was located in a low, marshy area, southeast of the fenced parking area.

After meeting with on-site representatives from Supercycle (Thomas Glander) and the Minnesota Pollution Control Agency (MPCA) (Dan Hannon), and upon assessing the situation, Bay West crew deployed two absorbent (sorbent) booms (one primary [inner] and one secondary [outer] boom) in the low marshy area where the fuel oil had collected. The area where the spill was contained was approximately 50 to 60 feet in circumference. The marshy area also serves as a collection point for storm water runoff.

Once the booms were staked in place, product recovery operations were conducted using the vac truck. Since marshy vegetation prevented easy collection of free product, Bay West ceased direct product recovery and instituted the use of an elastic skimmer connected to the suction hose of the vac truck. The elastic skimmer was placed in an area of relatively low vegetation growth to facilitate product recovery. A trash pump was used to gently "wash" or push the product through the vegetation to the collection site. This method ensured that product would not be driven further into the substrate and cause emulsification or mixing of the product. Absorbent pads were also deployed in order to "soak-up" pockets of free product.

Water and free product were placed in DOT-specification drums pending disposition. Likewise, soiled absorbent pads were placed in separate DOT-specification drums.

Bay West

Concurrent with the product recovery operation, floor-dri that had been applied to product on the asphalt, was swept and placed in DOT-specification drums pending disposition. All drums were labeled and stored in an area of low traffic.

The primary and secondary sorbent booms were left in place to collect any residual free product that could be "flushed-out" as the result of a precipitation event and storm water flow.

Bay West has been monitoring the site on a periodic basis to change and containerize spent sorbents, and deploy new sorbents as necessary.

Bay West proposes that the fuel oil-impacted vegetation be cut and removed for disposal, and that residual fuel oil in the root zone be allowed to undergo natural biodegradation/attenuation processes. Bay West further recommends that the site be inspected once a month; visible product will be removed with sorbents and containerized. These inspections would continue as necessary through the winter months.

If the following spring thaw shows no signs of free product or distressed vegetation, a request will be made for environmental closure of the site.

The cost for removal of vegetation in the affected area is estimated to be $765.65. Transportation and disposal of affected vegetation is estimated to be $552.00.

The estimated cost for monthly inspections is $148.74/month (commencing in November 1993 and concluding in May 1994). This cost does not include the cost for containers or disposal of soiled sorbents, since the volume generated is not known. In general, drums will cost approximately $34.71/drum, and disposal will be about $0.92/pound including transportation. All work will be done on a time and materials basis according to Bay West's Fee Schedule, which you were provided on an earlier date.

If you have any questions or if I can be of further service, please call me at 291-0456.

Sincerely,

Dennis Littfin

Dennis J. Littfin
Hydrogeologist

Stephen A Gross

Stephen A Gross REP, CHMM
Manager,
Environmental Compliance/Waste Management Services

d 11/96

BOX 5

MINNESOTA POLLUTION CONTROL AGENCY
COMMISSIONER'S SITE REPORT
TO THE PETROLEUM TANK RELEASE COMPENSATION BOARD

SITE ID#	RELEASE SITE	APPLICANT	REGION
LEAK00006389	Former Casey's General Store	Western Petroleum Corporation	V
LEAK00006810	Ramsey County Recycling Center	Super Cycle	Metro
LEAK00007288	Former Casey's General Store	Western Petroleum Corporation	V
LEAK00007834	Conoco Store #23302	Conoco Incorporated	V
LEAK00008331	Metalcoat Grease and Oil	Randolph Capital Corporation	Metro

1. Eligibility Determination

I hereby determine that the corrective action described in the application was appropriate in terms of protecting public health, welfare, and the environment and that the applicant is eligible for Petrofund reimbursement, pursuant to Minn. Stat. § 115C.09, subd. 2, items (a) and (c) (1994).

2. Compliance with Applicable Requirements: **ADEQUATE**

Information readily available to the Minnesota Pollution Control Agency staff shows that the applicant has complied with the applicable requirements of Minn. Stat. § 115C.09, subd. 3(i)(Supp 1995).

The determinations in this report are made solely for the purpose of determining eligibility for reimbursement under Minn. Stat. § 115C.09, subds. 2 and 3 (1994). Nothing in this site report releases any person from liability, and the Minnesota Pollution Control Agency does not waive any of its authority to require additional corrective action at the above-referenced site or to enforce other provisions of state law.

Dated: 11/15/96

Mark Schmitt
Supervisor

OFFICE USE ONLY:
✓ INTIAL APP _____ SUPP #
5 PHASE

OFFICE USE ONLY:
LEAK # 6810
ENTERED 10/24/96

MINNESOTA PETROLEUM TANK RELEASE COMPENSATION BOARD

APPLICATION FOR REIMBURSEMENT

Please be advised that the information used to support this application is subject to audit by the Minnesota Pollution Control Agency and Minnesota Department of Commerce.

I. APPLICANT INFORMATION

State of Minnesota
NOV 1 1 1996
OCT 2 4 1996
Dept. of Commerce

☐ Check if New Address or Phone Number

Name SUPER CYCLE, INC. Back

Mail Address 775 RICE STREET

City ST. PAUL State MN Zip 55117

Contact Person (if different from above "Name") TOM GLANDER

Day Phone (612) 224-5081 Ext: _____ Fax (612) 224-0315

Check One:	*Check One:*
☒ Responsible Party	☐ Corporation
☐ Volunteer	☐ Partnership
☐ Non-Responsible Party (See Application Guide)	☐ Individual
	☐ Other

- / - / 88 to Present Dates Owner/Operator of tank(s). (Complete if "Responsible Party" box is checked.)

/ / to / / Dates Volunteer owned property. (Complete if "Volunteer" box is checked.)

II. LEAK SITE INFORMATION

6810 **Petrofund Leak Number** MR. DAN HANNAN **MPCA Project Manager**

Tank Facility Name SUPER CYCLE, INC.

Address 775 RICE STREET

City ST. PAUL MN Zip 55117

Day Phone (612) 224-5081 County of Leak Site: RAMSEY

9 / 24 / 93 Date petroleum leak detected.

9 / 24 / 93 Date petroleum leak reported to MPCA.

Yes or (No) Is tank leak on personal residential property? (Circle One)

10 Cubic Yards. Total amount of contaminated soil excavated at this site.

5,600 ppm. State the range of soil contamination concentration (total hydrocarbons)

III. ASSIGNMENT CERTIFICATION AND/OR TERMINATION

CHECK ALL THAT APPLY:

☐ Petrofund Assignment Agreement has been executed (Attach original of new Assignment form.)
List Assignees: _____,
_____.

☐ Assignment form is already on file with the Department of Commerce.

☐ Assignment Agreement from previous application has been terminated. (Attach original Termination form.)

☒ Not applicable.

DO NOT STAPLE OR BIND APPLICATION – CLIP OR RUBBER BAND ONLY

APPLICATION EFFECTIVE OCTOBER 6, 1995 - JUNE 30, 1996

IV. APPLICATION PHASE

Check appropriate box and complete the information requested for the box checked (See Application Guide for further information).

☐ **Pre-removal site assessment**

__/__/__ Date(s) of the assessment report

☐ **Phase 1** **MPCA Approval of Soil Corrective Action Plan (SCAP)**

__/__/__ Date of SCAP approval (*Attach copy*)
__/__/__ Date SCAP was submitted to MPCA

☐ **Phase 2** **Submission of Documentation of Soil Treatment**

__/__/__ Date documentation was submitted to MPCA

☐ **Phase 3** **MPCA approval of Soil and/or Groundwater Comprehensive Corrective Action Plan (CCAP/CAD)**

__/__/__ Date of CCAP/CAD approval (*Attach copy*)
__/__/__ Date of CCAP/CAD was submitted to MPCA

☐ **Phase 4** **Submission of CCAP/CAD Installation Letter to MPCA**

__/__/__ Date CCAP/CAD Installation Letter (*Attach copy*)

☒ **Phase 5** **Ongoing Expenses. Following Phase 4 Reimbursement or MPCA Site Closure or Conditional Closure**

11/4/94 Date of MPCA Site Closure letter (*Attach copy*)

V. SOURCE AND CAUSE

What was the source of the petroleum release at this site? (See Application Guide.) VANDALISM OF THE ABOVEGROUND STORAGE TANK.

How was the release discovered? VISUAL OBSERVATIONS.

If the release was not reported to the MPCA within 24 hours of discovery, state the reason why: NA

To the best of your knowledge, list all persons other than the applicant who were owners or operators of the tank during or after the petroleum release:

NONE

Yes or (No) Did any of the persons listed above incur corrective action costs related to this petroleum release? (Circle One) If yes, list name(s) and address(es) if known: _____

PIPING

Tank #	Pressurized Piping Leak Detection: Continuous Leak Detection (Select method below)	Pressurized Piping Leak Detection: Periodic Leak Detection (Select method below)	Suction Piping Leak Detection: Check valve located at: ☐ Tank ☐ Pump (Select method below)	Corrosion Protection (Select method below)
1	NA			
2				
3				
4				
5				

Continuous method choices:	**Periodic method choices:**	**Suction leak detection method choices:**	**Corrosion protection choices:**
1. None 2. Automatic flow restrictor 3. Automatic shutoff device 4. Continuous alarm	1. None 2. Annual tightness test 3. Statistical inventory reconciliation (SIR) 4. Electronic line leak detector 5. Interstitial monitoring 6. Groundwater monitoring	1. None 2. Tightness test every 3 years 3. Statistical inventory reconciliation (SIR) 4. Interstitial monitoring 5. Vapor monitoring 6. Groundwater monitoring	1. None 2. Steel with anodes 3. Coated steel with anodes 4. Impressed current 5. Fiberglass or flexible piping

If piping tightness tests performed, indicate dates of all tests: NA _____ _____ _____

_____ _____ _____ _____ _____ _____ _____

NA Identify MPCA certified tank removal contractor utilized during tank excavation

NA MPCA contractor certification number. (Invoice(s) may be requested)

B. **Aboveground Storage Tanks.** Complete the following information to reflect the status of the aboveground tanks involved in the release at the time the release was discovered.

In describing your secondary containment, specify:

- materials used to construct both the base and the walls, including type and thickness of materials (e.g.; 6" compacted clay; 30 mil HDPE; reinforced concrete slab floor/concrete block walls; none)
- how material specifications are known (e.g., permeability tests/dates, installation specifications)
- whether or not the volume of the secondary containment area is adequate for the contents of the largest tank (Y/N)

Tank	Contents	Capacity	Date Installed	Registered Yes/No/Ukn	Description of Secondary Containment: Walls	Base	Verification	Volume Yes/No
Sample	*unleaded gas*	*15,000 gallons*	*1/1/47*	*Yes*	*Concrete Block*	*6" compact clay/6" gravel fill*	*Perm test on (date)*	*No*
1	Diesel fuel	4,000	1988	Yes	Concrete	Concrete	N/A	Yes
2								
3								

VI: MPCA TANK INFORMATION AND COMPLIANCE

A. **Underground Storage Tanks**. Complete the following information to reflect the status of your underground storage tanks at the time the release was discovered. Refer to the attachment *"Do Underground Storage Tank and Piping Requirements Apply to Your Petroleum Tank?"* and *"What Do You Have to Do?"/"When Do You Have to Act?"* to determine the applicability of registration, leak detection, corrosion protection, and spill/overfill protection requirements.

If you are unsure how tank rules apply to your tanks, please call the UST Compliance and Assistance Unit at (612) 297-8679. Please tell the receptionist you have questions about this form.

(Please attach additional sheets if more than five tanks are involved.)

Tank #	Petroleum Product	Capacity	Tank Material	Date Installed	Date Registered	Date Removed (If applicable
1	NA					
2						
3						
4						
5						

TANKS

Tank #	Leak Detection (Select Method Below)	Corrosion Protection (Select Method Below)	Spill Bucket (Yes/No)	Overfill Protection (Select Method Below)
1	NA			
2				
3				
4				
5				

Leak detection method choices (select all that apply):
1. None
2. Inventory control plus annual tightness testing
3. Inventory control plus tightness testing every 5 years
4. Manual tank gauging
5. Manual tank gauging plus annual tightness testing
6. Manual tank gauging plus tightness testing every 5 years
7. Statistical inventory reconciliation (SIR)
8. Automatic tank gauge
9. Interstitial monitoring
10. Vapor monitoring
11. Ground water monitoring
12. Other:

Corrosion protection choices:
1. None
2. Fiberglass, jacketed steel or composite tank
3. STI-P 3 tank
4. Anodes installed
5. Impressed current system
6. Lined tank
7. Other:

Overfill protection choices:
1. None
2. Ball float valve
3. Automatic shutoff
4. Audible alarm
5. Other:

If tank tightness tests performed, indicate dates of all tests: NA

VII. ELIGIBLE COSTS

Yes or (No) Are any of the costs listed in the Eligible Cost Worksheets in dispute? (Circle One) (From pages 8 - 14)

Yes or (No) Are ongoing corrective action costs expected at this leak site? (Circle One)

Explain briefly any ongoing corrective action costs (approximate figures) relative to the petroleum release and work to be done: (Attach additional sheets if necessary.)

Type of Work NA Approximate Cost $____

Type of Work ____ Approximate Cost $____

Total $____

(Yes) or No Did the applicant have in effect one or more insurance policies at the time of the release? (Circle One)
If yes, was a claim filed for coverage of any of the costs for which the applicant is seeking reimbursement in this application? If no, explain why no claim was filed: YES

If yes, did the insurer agree to cover your claim? NO
If yes, state the amount of benefits received (or to be received) and provide a copy of the insurer's explanation of benefits. $ NA
If no, provide a copy of the insurer's letter explaining the reasons for denying your claim.

Yes or (No) Is applicant aware of any other insurance policy, whether the policy is held by the applicant or another person, that could possibly cover any of the eligible costs in this application? (Circle One)
If "Yes", please explain: ____

Yes or (No) Has the applicant made a claim against any third party for costs for which the applicant is seeking reimbursement or for any costs associated with this release? (Circle One)
If yes, identify all third parties and provide a copy of all correspondence between the applicant and third parties.

Please provide a brief chronological description (including dates) of the clean-up activities covered on this application including any special circumstances: EMERGENCY RESPONSE TO FUEL RELEASE (9-24-93); VEGITATION REMOVAL, EXCAVATION FUEL DISPOSAL (9-28-93, 11-9-93 AND 11-24-93); WATER DISPOSAL (1-18-94 AND 1-26-94) AND THERMAL TREATMENT OF IMPACTED SOIL (8-2-94).

Yes or (No) Is applicant aware of any action by a consultant or contractor which may have caused or aggravated the contamination at this site? (Circle One) If "Yes", please explain: ____

VIII. COMPETITIVE BIDDING

List names of ALL written bids/proposals obtained to perform corrective action at this leak site. **Attach copies of ALL signed and dated bids/proposals.** (USE ADDITIONAL SHEETS IF NECESSARY):

	Bidder Selected*	Name	Amount of Bid	Date of Bid	Task
Consultants	☐				
	☐				
	☐				
Contractors	☐				
	☐				
	☐				
	☐				

*If lowest bid/proposal was not selected, on a separate sheet explain this decision.

IX. CONSULTANTS/CONTRACTORS

Complete the following for **ALL** contractors, subcontractors, consultants, engineering firms or others who performed corrective actions at this release site (see Application Guide).

Describe below any relationship, financial or otherwise, between the applicant and anyone who performed work at this site: NONE

Land Farmer/Compost Site or Thermal Treatment Facility (Attach a copy of the land farming/composting contract.):

_____ Petrofund Registration Number
Name CLEANSOILS
Contact person MR. DAN ROSE
Address 3600 LABORE RD, SUITE 1
City VADNAIS HEIGHTS State MN Zip 55110
Day Phone # (612) 483-4500

Consultants/Contractors (Attach additional pages if necessary.)

_____ Petrofund Registration Number
Name of individual or firm: BAY WEST
Mailing Address: FIVE EMPIRE DRIVE ST. PAUL (City) MN (State) 55103 (Zip)
Contact Person: MR. DENNIS J. LITTFIN Day phone #: (612) 291-0456

_____ Petrofund Registration Number
Name of individual or firm: SERVICE ENVIRONMENTAL ENGINEERING CORP.
Mailing address: 2325 ENDICOTT ST. ST. PAUL (City) MN (State) 55114 (Zip)
Contact person: MR. DAVID J. KOUBSKY Day phone #: (612) 644-6680

_____ Petrofund Registration Number
Name of individual or firm: HUNTINGDON (NO LONGER IN BUSINESS)
Mailing address: 737 PELHAM BOULEVARD ST. PAUL (City) MN (State) 55114 (Zip)
Contact person: STEPHANIE KIDDER Day phone #: (612) 659-7600

_____ Petrofund Registration Number
Name of individual or firm:
Mailing address: (City) (State) (Zip)
Contact person: Day phone #: ( )

X. CERTIFICATION PAGE* (See Application Guide.)

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordan with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete.

I certify that if I have submitted invoices for costs that I have incurred but that remain unpaid, I will pay these invoices within 30 days of receipt of reimbursement from the Board. I understand that if I fail to do so, the Board may demand return of all or any portion of reimbursement paid to me and that if I fail to comply with the Board's demand, then the Board may recover the reimbursement, plus administrative and legal expenses in a civil action in District Court. I understand that I may also be subject to civil penalty."

If information contained in this application changes in any material way after this application is submitted to the Petrofund, I will immediately notify the Petrofund in writing of those changes.

IN WITNESS WHEREOF, the Applicant(s) have hereunder set their hands this 22nd day of October, 1996

Applicant name (print or type) Super Cycle, Inc. Thomas C Glander Pres	Subscribed and sworn to before me this 22 day of October, 1996.
Applicant signature Thomas C Glander	Notary Public Janean L Daggy
Date signed 10-22-96	My commission expires 1-31-2000

CORPORATION AND/OR PARTNERSHIP SIGNATURES (IN ADDITION TO ABOVE SIGNATURES.)

"I further certify that I am authorized to sign and submit this application on behalf of Super Cycle, Inc"

Thomas C Glander
Signature

Thomas C Glander
Name (please print)

President
Title (See Application Guide, Part XX)

10-22-96
Date

JANEAN L. DAGGY
NOTARY PUBLIC- MINNESOTA
MY COMMISSION EXPIRES 1-31-2000

CONSULTANT SIGNATURE(S) (SIGNATURE(S) REQUIRED)

I, Dave Kobasky (Individual name), confirm that all costs claimed by SERVICE (Consultant company) as a part of this application are a true and accurate account of services performed.

Signature	Title	Date
	Geologist	10-14-96

I, _____ (Individual name), confirm that all costs claimed by _____ (Consultant company) as a part of this application are a true and accurate account of services performed.

Signature	Title	Date

* **NOTE:** SUBMIT CERTIFICATION PAGE CONTAINING ORIGINAL SIGNATURES.

Please send this application and accompanying documents to:

MINNESOTA DEPARTMENT OF COMMERCE - PETROFUND
133 EAST SEVENTH STREET
ST. PAUL, MN 55101-2333
(612) 282-5951, (612) 297-4203

XI. COST WORKSHEET SUMMARY (Pages 8 - 14)

__/__/__ to __/__/__ Dates of invoices submitted with this application.

Cost worksheets/standardized invoices and bid forms summary: (Details requested on this and next pages A - L)

A $_____ C $ 785.00 E $_____ G $ 9325.69 I $ 6069.23 K $_____

B $ 148.00 D $_____ F $_____ H $_____ J $ 15.63 L $ 2,212.50

Total of all eligible costs as listed in the Eligible Cost Worksheets: $ 18,556.05

Insurance Reimbursement (Subtract) - $(0.00)

= $ 18,556.05

X 90%*

Total Reimbursement Request = $ 16,700.45

* Calculate at 92.5% if leak is on personal residential property

ELIGIBLE COST WORKSHEETS

* **Complete the section of each category (A-L) that corresponds with the dates of your cleanup contract.**
* Description must be specific as to work performed.
* Invoices must be submitted for each cost listed below.
* Invoices must contain sufficient detail to verify costs and services entered below.
* **ATTACH A COPY OF SITE MAP INDICATING TANK LOCATIONS AND LIMITS OF CONTAMINATED SOIL EXCAVATION. IF NEW TANKS WERE INSTALLED, NOTE TANK SIZE AND LOCATION ON SITE MAP.**
* Duplicate this form if additional worksheets are needed.

A. SOIL BORINGS/MONITORING WELLS - ETC.

Fill out this section if you are submitting invoices from contracts entered into on or before Oct. 5, 1995.

Description	Firm Name	Invoice Number or Date	Total Units	Unit Costs	Subtotal
NA					
			A Page #	Subtotal	
				Grand Total	

Fill out this section if you are using the Standardized Invoice and Bid forms for contracts entered into on or after October 6, 1995.

Description	*Firm Name*	*Invoice Name e.g. UST Removal & Assessmt*	*Subtotal*
		A Page #	*Subtotal*
			Grand Total

B. LABORATORY TESTS AND ANALYSIS

Description	Firm Name	Invoice # or Date	Total Units	Unit Costs	Subtotal
DRO	Huntingdon	4413-94-5618	1	78.00	$78.00
BTEX	Huntingdon	4413-94-5618	1	70.00	$70.00
				TOTAL	$148.00

C. EXCAVATION

Description	Firm Name	Invoice # or Date	Total Units	Unit Costs	Subtotal
Excavation/Backfilling	Jeff DeBace	1993	*	*	$785.00
*See attached invoice for units.				TOTAL	$785.00

G. EMERGENCY AND TEMPORARY HAZARD CONTROL

Description	Firm Name	Invoice # or Date	Total Units	Unit Costs	Subtotal
Plastic Drum Skimmer	Bay West	00100079	1	120.00	$120.00
Emergency Response Vehicle	Bay West	00100079	1	600.00	$600.00
Service Vehicle	Bay West	00100079	1	66.00	$66.00
Vacuum Truck	Bay West	00100079	8	96.00	$768.00
Mileage	Bay West	00100079	5	0.60	$3.00
Mileage	Bay West	00100079	10	0.90	$9.00
Compressor	Bay West	00100079	1	78.00	$78.00
Sorbent Sheets	Bay West	00100079	.75	71.70	$53.78
Sorbent Boom	Bay West	00100079	1.5	181.00	$271.50
Drums	Bay West	00100079	43	33.70	$1,449.10
Gloves	Bay West	00100079	10	1.50	$15.00
Project Manager	Bay West	00100079	3	98.00	$294.00
Site Supervisor (overtime)	Bay West	00100079	0.5	112.50	$56.25
Site Supervisor	Bay West	00100079	6	75.00	$450.00
Field Technician I (overtime)	Bay West	00100079	1.5	69.00	$103.50
Field Technician I (overtime)	Bay West	00100079	1.5	69.00	$103.50
Field Technician I	Bay West	00100079	6.5	46.00	$299.00
Field Technician I	Bay West	00100079	2	46.00	$92.00
Field Technician I	Bay West	00100079	2	46.00	$92.00
Field Technician II (overtime)	Bay West	00100079	0.5	87.00	$43.50

G. EMERGENCY AND TEMPORARY HAZARD CONTROL

Description	Firm Name	Invoice # or Date	Total Units	Unit Costs	Subtotal
Field Technician II (overtime)	Bay West	00100079	0.5	87.00	$43.50
Field Technician II (overtime)	Bay West	00100079	1.5	87.00	$130.50
Field Technician II	Bay West	00100079	5.5	58.00	$319.00
Field technician II	Bay West	00100079	6	58.00	$348.00
Field Technician II	Bay West	00100079	2	58.00	$116.00
Field Technician I (overtime)	Bay West	00100079	4	69.00	$276.00
Insurance	Bay West	00100079	1	186.00	$186.00
Large Vehicle	Bay West	00110048	0.50	96.00	$48.00
Mileage	Bay West	00110048	2.00	0.90	$1.80
Sorbent Sheets	Bay West	00110048	2.50	71.70	$179.25
Gloves	Bay West	00110048	2.00	1.50	$3.00
Project Manager	Bay West	00110048	0.5	98.00	$49.00
Remedial Manager	Bay West	00110048	0.4	108.00	$43.20
Field Technician I	Bay West	00110048	2.00	46.00	$92.00
Field Technician III	Bay West	00110048	2.00	68.00	$136.00
Large Vehicle	Bay West	00110048	0.5	96.00	$48.00
Mileage	Bay West	00110048	2.00	0.90	$1.80
Drums	Bay West	00110048	1	33.70	$33.70
Remedial Manager	Bay West	00110048	0.2	108.00	$21.60
Field Technician I	Bay West	00110048	1	46.00	$46.00
Field Technician II	Bay West	00110048	1	58.00	$58.00
Field Technician III	Bay West	00110048	1.9	68.00	$129.20
Project Manager	Bay West	00110048	0.2	98.00	$19.60
Project Manager	Bay West	00110048	0.5	98.00	$49.00
Project Manager	Bay West	00110048	0.5	98.00	$49.00
Project Manager	Bay West	00110048	0.2	98.00	$19.60
Project Manager	Bay West	00110048	0.4	98.00	$39.20
Staff Professional I	Bay West	00110048	1	66.00	$66.00
Project Manager	Bay West	00110048	0.3	98.00	$29.40
Project Manager	Bay West	00110048	0.5	98.00	$49.00
Principal	Bay West	00110048	0.3	108.00	$32.40
Office Support	Bay West	00110048	0.2	35.00	$7.00
Project Manager	Bay West	00110048	2.1	98.00	$205.80

G. EMERGENCY AND TEMPORARY HAZARD CONTROL

Description	Firm Name	Invoice # or Date	Total Units	Unit Costs	Subtotal
Express Messenger	Bay West	00110048	1	5.50	$5.50
Field Technician III	Bay West	00110048	0.5	68.00	$34.00
Project Manager	Bay West	00110048	0.2	98.00	$19.60
Insurance	Bay West	00110048	1	47.01	$47.01
Project Manager	Bay West	00120033	0.7	98.00	$68.60
Remedial Manager	Bay West	00120033	0.2	108.00	$21.60
Staff Professional II	Bay West	00120033	0.7	76.00	$53.20
Project Manager	Bay West	00120033	0.2	98.00	$19.60
Drums	Bay West	00120033	6	33.70	$202.20
Remedial Manager	Bay West	00120033	0.7	108.00	$75.60
Field Technician I	Bay West	00120033	2	46.00	$92.00
Field Technician I	Bay West	00120033	2	46.00	$92.00
Field Technician I	Bay West	00120033	2	46.00	$92.00
Insurance	Bay West	00120033	1	21.50	$21.50
Project Manager	Bay West	00120033	0.2	98.00	$19.60
Service Vehicle	Bay West	00120033	1	55.00	$55.00
Mileage	Bay West	00120033	2	0.50	$1.00
Drums	Bay West	00120033	2	33.70	$67.40
Gloves	Bay West	00120033	1	0.50	$0.50
Sample Bottles	Bay West	00120033	6	3.75	$22.50
Project Manager	Bay West	00120033	0.8	98.00	$78.40
Field Technician I	Bay West	00120033	3	38.00	$114.00
Field Technician II	Bay West	00120033	3	48.00	$144.00
Project Manager	Bay West	00120033	0.4	98.00	$39.20
Project Manager	Bay West	00120033	0.8	98.00	$78.40
Insurance	Bay West	00120033	1	18.60	$18.60
				TOTAL	$9,325.69

J: REPORT PREPARATION; DATA COLLECTION; OPERATION OVERSIGHT AND MAINTENANCE; SYSTEM MONITORING; CORRESPONDENCE; MILEAGE; POSTAGE; PER DIEM

Fill out this section if you are submitting invoices from contracts entered into on or before Oct. 5, 1995.

Description	Firm Name	Invoice Number or Date	Total Units	Unit Costs	Subtotal
NA					
				J Page #	Subtotal
					Grand Total

Fill out this section if you are using the Standardized Invoice and Bid forms for contracts entered into on or after October 6, 1995.

Description	*Firm Name*	*Invoice Name e.g. UST Removal & Assessmt*	*Subtotal*
		J Page #	*Subtotal*
			Grand Total

K. MARK-UP

Fill out this section if you are submitting invoices from contracts entered into on or before Oct. 5, 1995.

Description	Firm Name	General Contractor Invoice #	Sub Contractor Invoice #	Mark up %	Subtotal
* SEE ATTACHED TABLES					
		K Page #		Subtotal	
				Grand Total	

There is NO additional section for Letter K.

L. OTHER CONSULTANT SERVICES (specify)

Fill out this section if you are submitting invoices from contracts entered into on or before Oct. 5, 1995.

Description	Firm Name	Invoice Number or Date	Total Units	Unit Costs	Subtotal
* SEE ATTACHED TABLES.					
		L Page #		Subtotal	
				Grand Total	

Fill out this section if you are using the Standardized Invoice and Bid forms for contracts entered into on or after October 6, 1995.

Description	*Firm Name*	*Invoice Name e.g. UST Removal & Assessmt*	*Subtotal*
		L Page #	*Subtotal*
			Grand Total

NOTE: PLEASE REMEMBER TO COMPLETE THE COST WORKSHEET SUMMARY ON PAGE 8.

I. OTHER CLEANUP COSTS

Description	Firm Name	Invoice #	Total Units	Unit Cost	Subtotal
Waste Disposal	Medical Safety	114853	750.9	0.80	$600.72
Waste Disposal	Medical Safety	117500	6,062.2	0.80	$4,849.76
Waste Disposal	Medical Safety	116818	600	0.80	$480.00
Cob Fractions	Medical Safety	116818	15	5.50	$82.50
Labor	Medical Safety	116818	1	56.25	$56.25
				TOTAL	$6,069.23

K. MARK-UP

Description	Firm Name	General Contractor Invoice #	Subcontractor Invoice #	Mark up %	Subtotal
Delivery	Express Messenger	00110048	08-108856	15	$0.83
Laboratory Analysis	Huntingdon	94015.03	94-5618	10	$14.80
				TOTAL	$15.63

L. OTHER CONSULTANT SERVICES

Description	Firm Name	Invoice #	Total Units	Unit Cost	Subtotal
Word Processing	SERVICE	94015.01	1	30.00	$30.00
Peer Review	SERVICE	94015.01	0.5	135.00	$67.50
Work Plan Preparation	SERVICE	94015.01	5	95.00	$475.00
Word Processing	SERVICE	94015.02	1	30.00	$30.00
Wor Processing	SERVICE	94015.02	1	30.00	$30.00
MPCA/Client Correspondence	SERVICE	94015.02	1.5	95.00	$142.50
Word Processing	SERVICE	94015.02	1.5	30.00	$45.00
Project Management-Boom Disposal	SERVICE	94015.02	0.5	135.00	$67.50
MPCA/Client Correspondence	SERVICE	94015.02	1.5	95.00	$142.50
Project Management-Boom Disposal	SERVICE	94015.02	0.5	95.00	$47.50
Spill Response Summary	SERVICE	94015.03	4	135.00	$540.00
Waste Management	SERVICE	94015.03	1	135.00	$135.00
Project Support	SERVICE	94015.03	0.5	65.00	$32.50

Bid Solicitation-Soil/Boom Disposal	SERVICE	94015.03	2	95.00	$190.00
Bid Solicitation-Soil/Boom Disposal	SERVICE	94015.03	1	95.00	$95.00
Bid Solicitation-Soil Disposal	SERVICE	94015.03	1.5	95.00	$142.50
				TOTAL	$2,212.50

Petroleum Tank Release Compliance Checklist

SITE NAME Ramsey County Recycling Center LEAK0000 6810

USE THE FOLLOWING GUIDELINES TO DETERMINE IF THE LEAKING TANK IS IN COMPLIANCE

_____UNREGULATED TANKS.....are ASTs/USTs 110 gallons or less, OR heating oil ASTs/USTs 1,100 gallons or less with product consumed on the premises, OR farm/residential ASTs/USTs 1,100 gallons or less containing motor fuel not for resale.

__X__STATE REGULATED TANKS.....are heating oil USTs with a capacity more than 1,100 gallons or all ASTs not specified above.

_____FEDERALLY REGULATED TANKS.....are all USTs not specified above.

STATUS OF RESPONSIBLE PARTY: Regular Applicant __X__ Limited Use Applicant_____

UNREGULATED TANKS, STATE TANKS, FEDERAL TANKS

Release Notification:

Date release discovered: MPCA 9-24-93 Petro App 9-24-93

Date release reported: MPCA 9-24-93 Petro App 9-24-93

When/how was release discovered? Observation - Release was caused by vandals

Was there environmental damage due to delay? Yes_____ No__X__

__X__**Adequate** ____**Inadequate** Recommend Reduction? Yes____ No_____

Comments: _____

Cooperation Issues: Yes_____ No__X__

If Yes, please prepare a narrative to be appended to the Commissioner's Site Report.

STATE TANKS, FEDERAL TANKS

Corrosion Protection: Tanks: Yes_____ No_____ N/A__X__ Piping: Yes_____ No_____ N/A__X__

Applicable for steel piping/steel USTs installed after 12/22/88. Steel piping/steel USTs installed before 8/1/85 require corrosion protection no later than 12/22/98. Heating oil USTs installed before 8/1/85 don't ever require corrosion protection. Steel piping/steel USTs installed between 8/1/85 and 12/22/88 should be cited as inadequate, but not recommended for reduction. ASTs do not require corrosion protection.

___**Adequate** ___**Inadequate** Recommend Reduction? Yes____ No____

STATE TANKS, FEDERA 'ANKS (cont.)

AST Secondary Containment: Yes X No_____ N/A_____
X **Adequate** ___**Inadequate** Recommend Reduction? Yes___ No___

FEDERAL TANKS

Spill Prevention: Yes_____ No_____ N/A_____
Applicable for USTs installed after 12/22/88. USTs installed before 12/22/88 require spill prevention by 12/22/98.

_____**Adequate** _____**Inadequate** Recommend Reductior? Yes_____ No_____

Overfill Protection: Yes_____ No_____ N/A_____
Applicable for USTs installed after 12/22/88. USTs installed before 12/22/88 require spill protection by 12/22/98.

_____**Adequate** _____**Inadequate** Recommend Reduction? Yes_____ No_____

Leak Detection: Tanks: Tank Leak Detection: Yes_____ No_____ N/A_____

Tank Tightness Testing Yes_____ No_____ N/A_____

If tank was installed	Then the leaks detection deadline is
before 1965 or unknown	12/22/89
1965-1969	12/22/90
1970-1974	12/22/91
1975-1979	12/22/92
1980-12/22/88	12/22/93

Tanks installed after 12/22/88 should have leak detection at installation.

Piping: Pipe leak detection: Yes:_____ No_____ N/A_____

Pipe tightness testing: Yes_____ No_____ N/A_____

Applicable for pressurized piping installed after 12/22/88. Pressurized piping installed before 12/22/88 must have leak detection by 12/22/90.

_____**Adequate** _____**Inadequate** Recommend Reduction? Yes_____ No_____

Comments_____

Tanks Properly Closed: Yes_____ No_____ Tanks must be removed or properly closed in place within one year of the date they are taken out of service. Applicable for USTs only.

____**Adequate** ____**Inadequate** Recommend Reduction? Yes____ No____

Completed by: Lisa Kinney Date: 11-12-96

JAJ
cisd 11/4/94

CleanSoils
SOIL REMEDIATION SPECIALISTS

CleanSoils Minnesota Inc.
2360 West County Road C
Roseville, MN 55113
Office: (612) 639-8811
FAX: (612) 639-8813

October 3, 1994

Mr. Tom Glander
Super Cycle Inc.
775 Rice Street
St. Paul, MN 55117

Dear Mr. Glander:

RE: Final Report on soil Treatment and Notification of Post-Burn Sampling Results

Site: Super Cycle Inc., 775 Rice Street, St. Paul, MN 55117
MPCA ID #: 6810
CleanSoils Project #: MN1663

CleanSoils has successfully completed the thermal treatment of petroleum contaminated soil from the above referenced site. The treated soil meets all MPCA requirements. Attached please find a copy of independent post-burn analyses for BTEX, GRO and/or DRO. Below is other information regarding the treated soil.

Quantity of Soil: 13.72 tons
Completion Date: August 23, 1994
Post-Burn Samples: MN1663-1
Final Disposition of Soil: Qualified Fill Project

If you should have any questions regarding this project, please contact me at (612) 639-8811.

Sincerely,

Daniel P. Rose

Daniel P. Rose
Manager, CleanSoils Minnesota Inc.

attachments

pc: File
Jessica Ebertz, MPCA
Consultant

SERCO Laboratories

1931 West County Road C2. St. Paul. Minnesota 55113 Phone (612) 636-7173 FAX (612) 636-7178

LABORATORY ANALYSIS REPORT NO: 46310 PAGE 1 of 2
08/30/94

CleanSoils, Inc.
2360 W County Road C
Roseville, MN 55113

Attn: Dan Rose

DATE COLLECTED: 08/24/94
DATE RECEIVED: 08/24/94
COLLECTED BY : CLIENT
DELIVERED BY : CLIENT
SAMPLE TYPE : SOIL

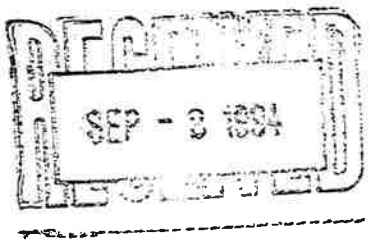
CLIENT'S ID: 10013 Postburns

SERCO SAMPLE NO: 129434

SAMPLE DESCRIPTION: MN1663-1

ANALYSIS:

Diesel Range Organics C10-C28, dry weight, mg/kg	<10
Analytical Method for MOD DRO	MOD DRO
Date of Extraction for MOD DRO	08/25/94
Date of Analysis for MOD DRO	08/26/94
Benzene, dry weight, mg/kg	<0.05
Ethylbenzene, dry weight, mg/kg	<0.05
Methyl tertiary butyl ether, dry weight, mg/kg	<0.5
Toluene, dry weight, mg/kg	<0.05
Total Xylene, dry weight, mg/kg	<0.05
Analytical Method for BETX/MTBE	8020
Date of analysis for BETX/MTBE	08/25/94
Total Solids, percent	100



< means "not detected at this level". 1 mg = 1000 ug.

740 Westminster St.
St Paul, Mn 55101

FAX COVER LETTER

PHONE(651) 776-7496 FAX(651) 774-0995

FAX TO Chris Malsin PHONE NUMBER 651-286-8707

DATE SENT 12-19-01

SENT BY: Tim Jackson

NUMBER OF PAGES/COMMENTS (5) Pages

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Waste Management, Inc.
740 Westminister Street
St. Paul, MN 55101

Lab Project Number: 1047140
Client Project ID: Super Cycle

Attn: Mr. Tim Jackson
Phone: (651)224-1135

Solid results are reported on a wet weight basis

Lab Sample No: 102887197 Project Sample Number: 1047140-001 Date Collected: 07/11/01 12:15
Client Sample ID: A0650289 PILE Matrix: Soil Date Received: 07/12/01 13:56

Parameters	Results	Units	Report Limit	Analyzed	CAS No.	Ftnote	Reg Limit
Metals							
TCLP, ICP Metals	Prep/Method: EPA 3010 / EPA 6010						
Lead	35.1	ug/l	6.00	08/01/01 10:14 BDA	7439-92-1		
Date Digested				07/31/01			
Wet Chemistry							
TCLP, ICP Metals	Prep/Method: EPA 1311 / EPA 6010						
Date Prepared				07/30/01			

Date: 08/02/01

REPORT OF LABORATORY ANALYSIS

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Lab Project Number: 1047140
Client Project ID: Super Cycle

PARAMETER FOOTNOTES

ND Not Detected
NC Not Calculable

REPORT OF LABORATORY ANALYSIS

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

QUALITY CONTROL DATA

Lab Project Number: 1047140
Client Project ID: Super Cycle

QC Batch: 61437
QC Batch Method: EPA 3010
Associated Lab Samples: 102887197

Analysis Method: EPA 6010
Analysis Description: TCLP, ICP Metals

METHOD BLANK: 102889540
Associated Lab Samples: 102887197

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Lead	ug/l	ND	6.00	

LABORATORY CONTROL SAMPLE: 102889573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	ug/l	1000	1013	101	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 102889557 102889565

Parameter	Units	102887197 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Lead	ug/l	35.06	1000.00	1036	1032	100	100	0	

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Lab Project Number: 1047140
Client Project ID: Super Cycle

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D) Laboratory Control Sample (Duplicate)
MS(D) Matrix Spike (Duplicate)
DUP Sample Duplicate
ND Not Detected
NC Not Calculable
RPD Relative Percent Difference

FAX

Date 08/16/01

Number of pages including cover sheet 12

TO: Chris Mclain, MPCA
FAX (651) 296-9707

FROM: Michael Reed
Ramsey County Environmental Health Section
1670 Beam Avenue, Suite A
Maplewood, MN 55109

Phone 651-773-4443
Fax Phone 651-773-4454

REMARKS: ☐ Urgent ☒ For your review ☐ Reply ASAP ☒ Please Comment

RE: Status of Leak #6810, 775 Rice Street, Saint Paul

Chris,

To follow up on my voice mail message, these are the results from the third round of excavations. As you may recall, Ramsey County is the property owner and Waste Management, Inc., (WMI), was the County's contractor to operate the County's recycling center. In this last round of sampling, WMI brought STS Consultants out to lead the on-site testing, excavation and sampling.

Also, Ramsey County is in the process of selling the property and has a signed purchase agreement with a private interest. This issue requires closure as part of that transaction.

Following are the analysis results from five samples taken at the base of the excavation. Comparing these values with previous results, two of five samples were above the 50 ppm DRO action limit, (110 ppm and 190 ppm), two were below detection limit and one was 10 ppm.

Regarding the soil already excavated, the composite TCLP lead result came in at 35 ppb/.35 ppm, well below the 5 ppm regulatory limit for lead. We are still intending for this soil to be transported to McCrossen for soil roasting once excavation has been completed.

I am interested in discussing your recommendations as well as our options based on the enclosed results.

If you require any further information, please call me at 651-773-4443.

Sincerely,

Michael Reed
Environmental Health Specialist II
Ramsey County Environmental Health

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

August 09, 2001

Mr. Bill Tepley
STS Consultants
10900 73rd Avenue North
Suite 150
Maple Grove, MN 55369

RE: Lab Project Number: I047062
Client Project ID: WasteMan/ST-95359A Super Cycl

Dear Mr. Tepley:

Enclosed are the analytical results for sample(s) received by the laboratory on July 26, 2001. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Diane J. Anderson
Project Manager

State of Minnesota laboratory 027-053-137

Enclosures

REPORT OF LABORATORY ANALYSIS

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone 612.607.1700
Fax 612.607.6444

STS Consultants
10900 73rd Avenue North
Suite 150
Maple Grove, MN 55369

Lab Project Number: 1047062
Client Project ID: WasteManUST-98359xA Super Cycl

Attn: Mr. Bill Tepley
Phone: 612-315-6300

Solid results are reported on a dry weight basis

Lab Sample No: 102881521 Project Sample Number: 1047062-001 Date Collected: 07/25/01 11:00
Client Sample ID: S1 Matrix: Soil Date Received: 07/26/01 16:34

Parameters	Results	Units	Report Limit	Analyzed		CAS No	Ftnote	Reg Limit
Metals								
Percent Moisture	Method:							
Percent Moisture	23.7	%		08/01/01	JMZ			
GC Semivolatiles								
WI DRO in Soil	Prep/Method:	TPH DRO WI extracti / TPH DRO Wisconsin						
Diesel Range Organics	ND	mg/kg	12.	08/05/01 15:29	JMZ			
n-Triacontane	86	%		08/05/01 15:29	JMZ	638-68-6		
Date Extracted				08/01/01				
GC Volatiles								
WI GRO and PVOC, soil	Prep/Method:	TPH GRO/PVOC WI ext / TPH GRO/PVOC WI						
Benzene	ND	mg/kg	0.066	08/08/01 21:05	EKB	71-43-2		
Ethylbenzene	ND	mg/kg	0.066	08/08/01 21:05	EKB	100-41-4		
Toluene	ND	mg/kg	0.066	08/08/01 21:05	EKB	108-88-3		
Xylene (Total)	ND	mg/kg	0.20	08/08/01 21:05	EKB	1330-20-7		
Fluorobenzene (S)	114	%		08/08/01 21:05	EKB	462-06-6		

Lab Sample No: 102881539 Project Sample Number: 1047062-002 Date Collected: 07/26/01 11:00
Client Sample ID: S2 Matrix: Soil Date Received: 07/26/01 16:34

Parameters	Results	Units	Report Limit	Analyzed		CAS No	Ftnote	Reg Limit
Metals								
Percent Moisture	Method:							
Percent Moisture	5.4	%		08/01/01	JMZ			

Date: 08/09/01

REPORT OF LABORATORY ANALYSIS

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Lab Project Number: 1047052
Client Project ID: WasteManUST-98359IA Super Cycl

Lab Sample No: 102881539 Project Sample Number: 1047052-002 Date Collected: 07/26/01 11:00
Client Sample ID: S2 Matrix: Soil Date Received: 07/26/01 16:34

Parameters	Results	Units	Report Limit	Analyzed		CAS No.	Ftnote	Reg Limit
GC Semivolatiles								
WI DRO in Soil	Prep/Method:	TPH DRO WI extracti / TPH DRO Wisconsin						
Diesel Range Organics	ND	mg/kg	3.6	08/08/01 10:41	JMZ			
n-Triacontane	98	%		08/08/01 10:41	JMZ	638-68-6		
Date Extracted				08/01/01				
GC Volatiles								
WI GRO and PVOC, Soil	Prep/Method:	TPH GRO/PVOC WI ext / TPH GRO/PVOC WI						
Benzene	ND	mg/kg	0.053	08/08/01 20:02	EKB	71-43-2		
Ethylbenzene	ND	mg/kg	0.053	08/08/01 20:02	EKB	100-41-4		
Toluene	ND	mg/kg	0.053	08/08/01 20:02	EKB	108-88-3		
Xylene (Total)	ND	mg/kg	0.16	08/08/01 20:02	EKB	1330-20-7		
Fluorobenzene (S)	122	%		08/08/01 20:02	EKB	462-06-6		

Lab Sample No: 102881547 Project Sample Number: 1047052-003 Date Collected: 07/26/01 11:00
Client Sample ID: S3 Matrix: Soil Date Received: 07/26/01 16:34

Parameters	Results	Units	Report Limit	Analyzed		CAS No.	Ftnote	Reg Limit
Metals								
Percent Moisture	Method:							
Percent Moisture	18.0	%		08/01/01	JMZ			
GC Semivolatiles								
WI DRO in Soil	Prep/Method:	TPH DRO WI extracti / TPH DRO Wisconsin						
Diesel Range Organics	190	mg/kg	49.	08/09/01 09:36	JMZ			
n-Triacontane	117	%		08/09/01 09:36	JMZ	638-68-6		
Date Extracted				08/01/01				
GC Volatiles								
WI GRO and PVOC, Soil	Prep/Method:	TPH GRO/PVOC WI ext / TPH GRO/PVOC WI						
Benzene	ND	mg/kg	0.061	08/08/01 20:33	EKB	71-43-2		

Date: 08/09/01

REPORT OF LABORATORY ANALYSIS

Matrix: Soil

Parameters	Results	Units	Report Limit	Analyze
Ethylbenzene	ND	mg/kg	0.061	08/08/01 20:
Toluene	ND	mg/kg	0.061	08/08/01 20:
Xylene (Total)	ND	mg/kg	0.18	08/08/01 20:
Fluorobenzene (S)	112	%		08/08/01 20:

Lab Sample No: 102881582
Client Sample ID: S4

Project Sample Number: 1047062-004
Matrix: Soil

Parameters	Results	Units	Report Limit	Analyzed
Metals				
Percent Moisture	Method:			
Percent Moisture	14.6	%		08/01/01
GC Semivolatiles				
WI DRO in Soil	Prep/Method:	TPH DRO WI extracti	/ TPH DRO Wisconsi	
Diesel Range Organics	10	mg/kg	10.	08/09/01 10:2
n-Triacontane	21	%		08/09/01 10:2
Date Extracted				08/01/01
GC Volatiles				
WI GRO and PVOC, soil	Prep/Method:	TPH GRO/PVOC WI ext	/ TPH GRO/PVOC WI	
Benzene	ND	mg/kg	0.059	08/08/01 18:58
Ethylbenzene	ND	mg/kg	0.059	08/08/01 18:58
Toluene	ND	mg/kg	0.059	08/08/01 18:58
Xylene (Total)	ND	mg/kg	0.18	08/08/01 18:58
Fluorobenzene (S)	119	%		08/08/01 18:58

Date: 08/09/01

Matrix: Soil

Parameters	Results	Units	Report Limit	Analyzed
Metals				
Percent Moisture				
Percent Moisture	Method: 14.3	%		08/01/01
GC Semivolatiles				
WI DRO in Soil	Prep/Method: TPH DRO WI extract1 / TPH DRO Wisconsin			
Diesel Range Organics	110	mg/kg	48.	08/09/01 11:09
n-Triacontane	110	%		08/09/01 11:09
Date Extracted				08/01/01
GC Volatiles				
WI GRO and PVOC, soil	Prep/Method: TPH GRO/PVOC WI ext / TPH GRO/PVOC WI			
Benzene	ND	mg/kg	0.058	08/08/01 19:30
Ethylbenzene	ND	mg/kg	0.058	08/08/01 19:30
Toluene	0.065	mg/kg	0.058	08/08/01 19:30
Xylene (Total)	ND	mg/kg	0.18	08/08/01 19:30
Fluorobenzene (S)	128	%		08/08/01 19:30

Date: 08/09/01

REPORT OF LABORATORY ANALYSI

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Waste Management, Inc.
740 Westminister Street
St. Paul, MN 55101

Lab Project Number: 1047140
Client Project ID: Super Cycle

Attn: Mr. Tim Jackson
Phone: (651)224-1135

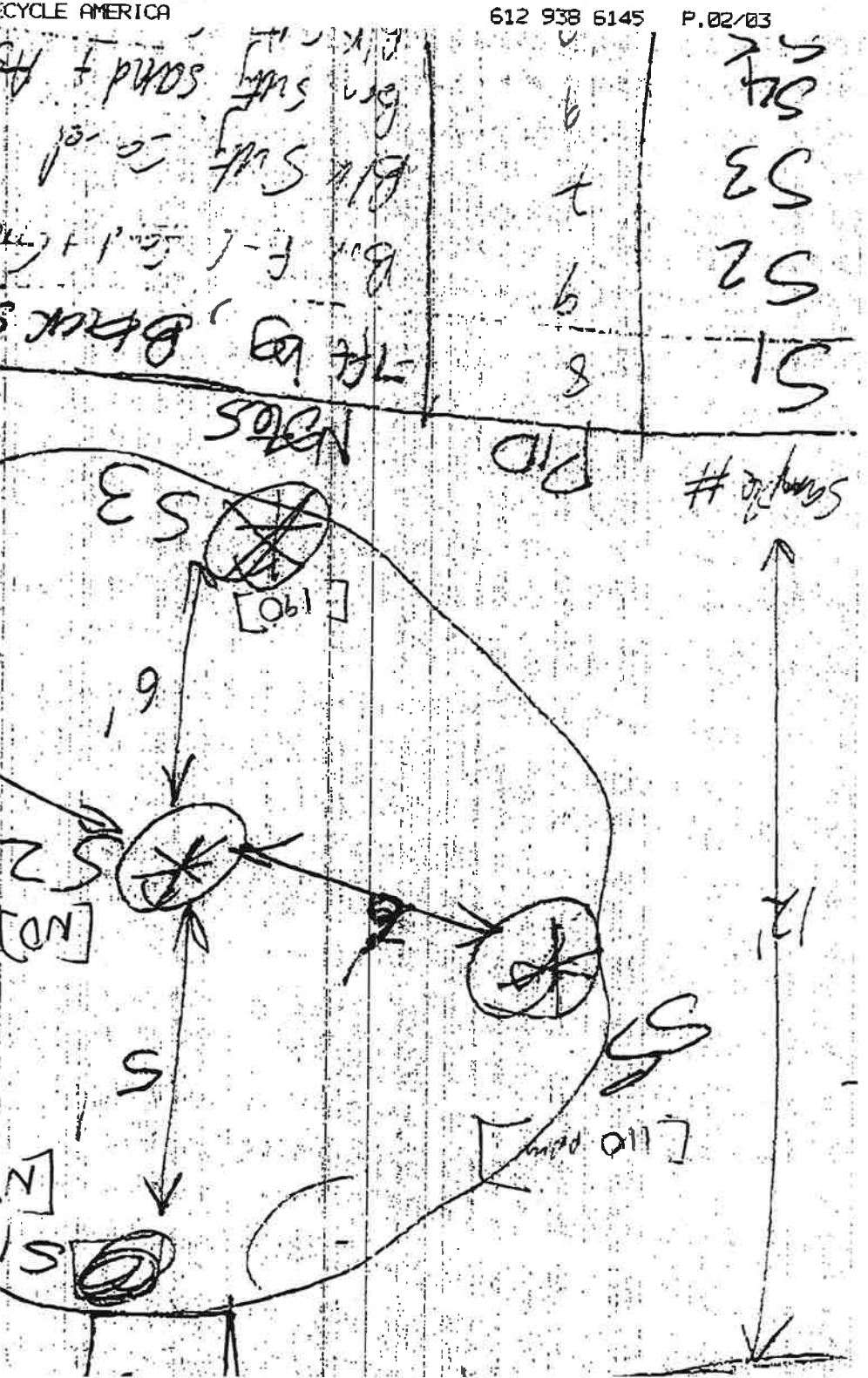
Solid results are reported on a wet weight basis

Lab Sample No: 102887197 Project Sample Number: 1047140-001 Date Collected: 07/11/01 12:15
Client Sample ID: A0650289 PILE Matrix: Soil Date Received: 07/12/01 13:56

Parameters	Results	Units	Report Limit	Analyzed	CAS No.	Ftnote	Reg Limit
Metals							
TCLP, ICP Metals	Prep/Method: EPA 3010 / EPA 6010						
Lead	35.1	ug/l	6.00	08/01/01 10:14	BDA - 7439-92-1		
Date Digested				07/31/01			
Wet Chemistry							
TCLP, ICP Metals	Prep/Method: EPA 1311 / EPA 6010						
Date Prepared				07/30/01			

Date: 08/02/01

REPORT OF LABORATORY ANALYSIS



CHAIN OF CUSTODY RECORD

10470 7708 Lu#2

№ 30705

Contact Person: Bill Tepley
Phone No.: 763/315/6300 Office: STS, Mpls (6)
Project No.: 98359XA PO No.:
Project Name: Super Cycle Waste Management

Special Handling Request: ☐ Rush ☐ Verbal ☐ Other

RECORD NUMBER 30705 THROUGH 30705
Laboratory: PACE
Contact Person: Diane Anderson
Phone No.:
Results Due:

Sample I.D.	Date	Time	Grab	Composite	No. of Containers	Sample Type (Water, soil, air, sludge, etc.)	Preservation Y	Preservation N	Field Data Ambient	Field Data Sample	pH	Special Cond.	Analysis Request	Comments on Sample (Include Major Contaminants)
S1	7/26	11:00	✓		3	S	1	2					BTEX, DRO + Dry Wt	10478153
S2			✓		3	S	1	2						1539
S3			✓		3	S	1	2						1547
S4			✓		3	S	1	2						1554
S5			✓		3	S	1	2						1562

Collected by: Gideon Ngs	Date 7/26/01	Time 11:00	Delivery by:	Date	Time
Received by: 07.26 1Pace	Date 7/26/01	Time 16:34	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received for lab by:	Date	Time	Relinquished by:	Date	Time

Laboratory Comments Only: Seals Intact Upon Receipt? ☐ Yes ☐ No ☐ N/A

Final Disposition:

Comments (Weather Conditions, Precautions, Hazards):
Per Gideon - MeOH volume used was 25 mL.
Diane A/ Pace 8/2/01

Distribution: Original and Green - Laboratory Yellow - As needed Pink - Transporter Goldenrod - STS Project File
Instructions to Laboratory: Forward completed original to STS with analytical results. Retain green copy.

T=12

STS Consultants Ltd.
Consulting Engineers

Pace Analytical™
www.paceIabs.com

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

QUALITY CONTROL DATA

Lab Project Number: 1047062
Client Project ID: WasteMan0ST-98359XA Super Cycl

QC Batch: 61760
QC Batch Method: TPH GRO/PVOC WI ext
Analysis Method: TPH GRO/PVOC WI
Analysis Description: WI GRO and PVOC, soil
Associated Lab Samples: 102881521 102881539 102881547 102881554 102881562

METHOD BLANK: 102905353
Associated Lab Samples: 102881521 102881539 102881547 102881554 102881562

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	mg/kg	ND	0.050	
Ethylbenzene	mg/kg	ND	0.050	
Toluene	mg/kg	ND	0.050	
Xylene (Total)	mg/kg	ND	0.15	
Fluorobenzene (S)	%	105		

LABORATORY CONTROL SAMPLE & LCSD: 102905361 102905379

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
Benzene	mg/kg	5.000	4.904	4.955	98	99	1	
Ethylbenzene	mg/kg	5.000	5.083	5.138	102	103	1	
Toluene	mg/kg	5.000	5.036	5.087	101	102	1	
Xylene (Total)	mg/kg	15	15.25	15.39	102	103	1	
Fluorobenzene (S)					117	119		

Date: 08/09/01

REPORT OF LABORATORY ANALYSIS

QC Batch Method: Analysis Description: Percent Moisture
Associated Lab Samples: 102881521 102881539 102881547 102881554 102881562

METHOD BLANK: 102891710
Associated Lab Samples: 102881521 102881539 102881547 102881554 102881562

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Percent Moisture	%	0		

SAMPLE DUPLICATE: 102891728

Parameter	Units	102990407 Result	DUP Result	RPD	Footnotes
Percent Moisture	%	19.10	17.60	3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone 612.607.1700
Fax 612.607.6444

Lab Project Number: 1047062
Client Project ID: WasteMan/ST-98359XA Super Cycl

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not Detected
NC	Not Calculable
RPD	Relative Percent Difference
(S)	Surrogate

Date: 08/09/01

FAX Cover Sheet

22460 Highway 169 Northwest
Elk River, MN 55330

Date: June 11, 2002
Number of pages including cover sheet: 6

To: Mike Reed
Ramsey Co. Environmental Health
Phone: 651-773-4443
Fax phone: 651-773-4496

From: Carolyn Birchem
RE:
Phone: 763/441-2464 X20
Fax phone: 763/441-3171

Your Requested Manifests.

Post-it® Fax Note 7671 | Date 12/12/02 | # of pages ▶ 6 pages

To Chris McLain	From Michael Reed
Co./Dept. MPCA	Co. Ramsey Co
Phone #	Phone # 651-773-4443
Fax # 651-296-9707	Fax #

RE: Soil Disposal Manifests for 775 Rice St.

ELK RIVER LANDFILL
PROFILE DETAIL REPORT

Transactions from 04/01/2002 through 04/30/2002
Inbound and Outbound Tickets
3rd Party and Interco Customers
Recycle and Disposal Waste

Date	Ticket	Truck	Manifest	Grid	Yards	Units	Tons	Tax	Amount	Ticket Total
23047 / WMI-SUPERCYCLE ST PAUL/SOIL										
4/18/02	229164	5424	23503	LINER 15A	0.00	0.00	16.15	$171.03	$764.70	$935.73
4/18/02	229166	58717	23502	LINER 15A	0.00	0.00	21.03	$222.71	$995.77	$1,218.48
4/18/02	229170	5425	23516	LINER 15A	0.00	0.00	17.89	$189.45	$847.09	$1,036.54
4/18/02	229177	1376	23504	LINER 15A	0.00	0.00	27.26	$288.69	$1,290.76	$1,579.45
Totals for 23047 / WMI-SUPERCYCLE ST PAUL/SOIL					0.00	0.00	82.33	$871.88	$3,898.32	$4,770.20
		4 Ticket(s)								
		4 Transaction(s)								
REPORT GRAND TOTALS					0.00	0.00	82.33	$871.88	$3,898.32	$4,770.20
		4 Total Ticket(s)								
		4 Total Transaction(s)								

WASTE MANAGEMENT

NON - HAZARDOUS WASTE MANIFEST

Customer Acct. No. 1038
Ticket No. 226901

GENERATOR

NO. 23502

Name Waste Management Super Cycle Generating Location Waste Management Super Cycle
Address 775 Rice St St Paul MN 775 Rice St St Paul MN
Phone No. 651 224-1175 Approval No. [redacted] 23047

Nonhazardous Contaminated Soil			
		21.03	Ton

CODES
D - DRUM
B - BAG
C - CARTON
P - POUNDS
Y - YARDS
O - OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

Timothy J. Jackson (PRINT) AUTHORIZED AGENT'S NAME — 4/18/02 DATE — SIGNATURE

CONTRACTOR

Name Forsethsons Phone No. 651 472 4514
Address

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

(PRINT) NAME — 4-18-02 DATE — SIGNATURE

TRANSPORTER

Transporter's Name Forseths Sons Trucking Inc Phone No.
Address 350 Main St. St. Bonifacius MN 55375 Driver's Name Brent Motson
Vehicle No. 226

I hereby certify that the above named material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

4/18/02 SHIPMENT DATE — DRIVER'S SIGNATURE — DELIVERY DATE — DRIVER'S SIGNATURE

DISPOSAL FACILITY

ISA Center

Site Name Elk River Landfill, Inc. Phone No. 763-441-2464
Address 22660 Hwy 169 N.W., Elk River, MN 55330
Permit No. SW-74 Time

I hereby certify that the above material has been accepted and that information presented on this document is true and accurate.

4-18-02 DATE — SIGNATURE

WM
WASTE MANAGEMENT

NON - HAZARDOUS WASTE MANIFEST

Customer Acct. No. 1038
Ticket No. 226892

WM/ Supercycle

GENERATOR

NO. 23503

Name West Management Supercycle
Address 75 Rice St
St Paul MN
Phone No. 651 224 1135

Generating Location Waste management
Super Cycle
75 Rice St St Paul MN
Approval No. 23047

WASTE CODE	WASTE DESCRIPTION	QUANTITY	UNITS
Ltd Regulated	Contaminated Soil		
		16.15 Ton	

CODES
D - DRUM
B - BAG
C - CARTON
P - POUNDS
Y - YARDS
O - OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law; That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

Timothy J Jackson — AUTHORIZED AGENT'S NAME (PRINT)
4-18-02 — DATE
SIGNATURE

CONTRACTOR

Name Forsberg & Son
Phone No. 651 472 4314
Address 4350 Main St

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law; That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

Corey Forsberg — NAME (PRINT)
4 18 02 — DATE
SIGNATURE

TRANSPORTER

Transporter's Name Forsberg & Son
Phone No. 952 472 5914
Address 4350 Main St
St Francis MN
Driver's Name Ron
Vehicle No. 057

I hereby certify that the above named material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

4 18 02 — SHIPMENT DATE
DRIVER'S SIGNATURE
4 18 02 — DELIVERY DATE
DRIVER'S SIGNATURE

DISPOSAL FACILITY

ISA Center

Site Name Elk River Landfill, Inc.
Phone No. 763-441-2464
Address 22460 Hwy 169 N.W., Elk River, MN 55330
Permit No. SW-74
Time

I hereby certify that the above material has been accepted and that information presented on this document is true and accurate.

4-18-02 — DATE
SIGNATURE

WHITE COPY - ORIGINAL YELLOW COPY - GENERATOR PINK COPY - CONTRACTOR GOLD COPY - TRANSPORTER

WM WASTE MANAGEMENT

NON - HAZARDOUS WASTE MANIFEST

Customer Acct. No. 1038

Ticket No. 226967

GENERATOR

NO. 23504

Name: waste Management supercycle

Address: 775 Rice St, St Paul Mn

Phone No. 651 774 1135

Generating Location: waste management super cycle 775 Rice St St Paul MN

Approval No. 23047

WASTE CODE	[illegible]	[illegible]	[illegible]
Regulated	contaminated soil		
		27.26 Ton	

CODES
D - DRUM
B - BAG
C - CARTON
P - POUNDS
Y - YARDS
O - OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law: That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

Timothy J Jackson — AUTHORIZED AGENT'S NAME (PRINT)
4-18-02 — DATE
SIGNATURE

CONTRACTOR

Name: Forseth & Sons

Phone No. 612 472 5415

Address: 4350 Main St St Boni

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law: That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

Greg Forseth — NAME (PRINT)
4-18-02 — DATE
SIGNATURE

TRANSPORTER

Transporter's Name: Forseth & Sons Trucking

Address: 4350 Main St St Boni.

Phone No. 952 472-5414

Driver's Name: Kendall Menzie

Vehicle No. FT-01

I hereby certify that the above named material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

4-18-02 — SHIPMENT DATE
DRIVER'S SIGNATURE
4-18-02 — DELIVERY DATE
DRIVER'S SIGNATURE

DISPOSAL FACILITY

15 A Center

Site Name: Elk River Landfill, Inc.

Phone No. 763-441-2464

Address: 22460 Hwy 169 N.W., Elk River, MN 55330

Permit No. SW-74

Time

I hereby certify that the above material has been accepted and that information presented on this document is true and accurate.

4-18-02 — DATE
SIGNATURE

WHITE COPY - ORIGINAL YELLOW COPY - GENERATOR PINK COPY - CONTRACTOR GOLD COPY - TRANSPORTER

WM WASTE MANAGEMENT

NON - HAZARDOUS WASTE MANIFEST

Customer Acct. No. 1638
Ticket No. 226919

GENERATOR

NO. 23516

Name: waste manage ment
Address: 775 Rice St
St Paul
Phone No. 651 724 1135

Generating Location: Waste managment Super Cycle 775 Rice st. st Paul MN
Approval No. 23047

[illegible]

[illegible]	contaminate soil		
			17.89 Ton

CODES
D - DRUM
B - BAG
C - CARTON
P - POUNDS
Y - YARDS
O - OTHER

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law: That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

AUTHORIZED AGENT'S NAME (PRINT) ______ DATE ______ SIGNATURE ______

CONTRACTOR

Name: NA
Phone No. ______
Address ______

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law: That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

NAME (PRINT) ______ DATE ______ SIGNATURE ______

TRANSPORTER

Transporter's Name: Forseth
Address: 9350 Main st
St. Paul
Phone No. 952-472 5414
Driver's Name: Jessy Remarda
Vehicle No. 008

I hereby certify that the above named material was picked up at the Generator site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE: 4-18-02 DRIVER'S SIGNATURE: [signature] DELIVERY DATE: 4-18-02 DRIVER'S SIGNATURE: [signature]

DISPOSAL FACILITY

15 A Center

Site Name: Elk River Landfill, Inc.
Phone No. 763-441-2464
Address: 22460 Hwy 169 N.W., Elk River, MN 55330
Permit No. SW-74
Time ______

I hereby certify that the above material has been accepted and that information presented on this document is true and accurate.

DATE: 4-18-02 SIGNATURE: [signature]

WHITE COPY - ORIGINAL YELLOW COPY - GENERATOR PINK COPY - CONTRACTOR GOLD COPY - TRANSPORTER

STS CONSULTANTS

STS Consultants, Ltd.
10900 - 73rd Ave. N., Suite 150
Maple Grove, MN 55369-5547
763-315-6300 Phone
763-315-1836 Fax

October 30, 2001

Mr. Tim Jackson
Waste Management
740 Westminster Street
St. Paul, MN 55101

Re: Excavation Report for the Petroleum Release at the Former Super Cycle Facility Located at 775 Rice Street in St. Paul, Minnesota; MPCA Leak No. 6810; STS Project 98359-XA

Dear Mr. Jackson:

STS Consultants, Ltd. (STS) has completed the Minnesota Pollution Control Agency (MPCA) Excavation Report Worksheet for the petroleum release at the above referenced site. STS recommends closure of this site based on the results of the excavation confirmation sampling. No petroleum impacts were identified at the site above MPCA Leaking Petroleum Storage Tank closure guidelines (Fact Sheet #3.6, April 2000), based upon the excavation sampling results.

Should you have any questions regarding this letter or the attached report, please feel free to contact us at 763/315-6330.

Sincerely,

STS CONSULTANTS, LTD.

William B. Tepley

William B. Tepley
Senior Project Manager

Robert L. DeGroot, PG PE
Principal Engineer

WBT/dn
Enc.
cc: Mr. Chris McLain, MPCA
Mr. Michael Reed, Ramsey County

12-14-01

Chris –

Einar Anderson (Dayton Park Properties) called. He's looking for info on LS 11735 (Specifically Unique #'s for MWs) I told him to call Steve Robertson (MDH) Fred Campbell

Leaking Petroleum Storage Tanks
Minnesota Pollution Control Agency
http://www.pca.state.mn.us/programs/lust_p.html

EXCAVATION REPORT WORKSHEET FOR PETROLEUM RELEASE SITES

Fact Sheet #3.7

Complete the information below to document excavation and treatment of petroleum contaminated soil. Conduct excavations in accordance with fact sheet #3.6 *Excavation of Petroleum Contaminated Soil During Tank Removal*. Please attach any available preliminary site investigation reports to this excavation report, and attach additional pages if necessary. Please type or print clearly. Do not revise or delete text or questions from this report form.

The excavation worksheet deadline is 10 months from the date of receipt of the MPCA "Petroleum Storage Tank Release Investigation and Corrective Action" letter. MPCA staff may establish a shorter deadline for high priority sites.

PART I: BACKGROUND

A. Site: **Former Super Cycle Facility**
MPCA Site ID#: LEAK0006810

Street: **775 Rice Street**
City, Zip: **St. Paul, MN 55117**
County: **Ramsey**
Latitude **44°57'' N** Longitude **93°06' W**
Circle one: **UTM** / State

B. Tank Owner/Operator: **Waste Management**

Mailing Address: **Waste Management**

Street/Box: **740 Westminster Street**
City, Zip: **St. Paul, MN 55101**
Telephone: **651-224-1135**

C. Excavating Contractor: **Forseth Trucking**

Contact: **Greg & Linda Forseth**
Telephone: **952-472-5414**
Tank Contractor Certification Number:
**** No tanks were removed associated with the soil excavation work**

D. Consultant: **STS Consultants, Ltd.**

Contact: **William B. Tepley**
Street/Box: **10900 - 73rd Ave. N.**
City, Zip: **Maple Grove, MN 55369**
Telephone: **763-315-6300**

Others on-site during site work (e.g., fire marshal, local officials, MPCA staff, etc.): **Michael Reed, Env. Health Specialist II, Ramsey County**

Note: If person other than tank owner and/or operator is conducting the cleanup, provide name, address, and relationship to site on a separate attached sheet.

PART II: DATES

A. Date release reported to MPCA: **1993**
B. Dates site work performed (tanks removed, piping removed, soil excavation, soil borings, etc.):

Work Performed	Date
1000 gallon AST removed	**4/26/01**
250 gallon AST removed	**4/26/01**
Soil excavation & cement bunker removal	**6/11/01**
Soil excavation	**7/11/01**
Soil excavation	**7/26/01**
Soil excavation	**8/24/01**

PART III: SITE AND RELEASE INFORMATION

A. Describe the land use and pertinent geographic features within 1,000 feet of the site. (i.e. residential property, industrial, wetlands, etc.)

Light Industrial with Paved surface, fenced yard. Burlington Northern Railroad is located to the south and southwest of the site. Commercial development exists to the east, light industrial to the northwest and two schools are located several blocks to the north.

B. Provide the following information for all tanks removed and any remaining at the site:

Table 1.

Tank #	UST or AST	Capacity (gallons)	Contents (product type)	Year installed	Status*	Condition of Tank
1	AST	1,000	Diesel	1986	Removed 4/26/01	Intact (no holes)
2	AST	250	Diesel	1986	Removed 4/26/01	Intact (no holes)

*Indicate: *removed (date), abandoned in place (date), or currently used*
Notes:

C. Describe the location and status of the other components of the tank system(s), (i.e., piping and dispensers) for those tanks listed above.

A 1,000-gallon AST enclosed in a cement bunker and a 250-gallon AST were removed on April 26, 2001. The location of the former AST systems are shown on Figure 1.

D. Identify and describe the source or suspected source(s) of the release and how the release was discovered.

Ramsey County personnel performing monthly inspections noted degradation of pavement in the site area. Chemical analytical results of excavated soils sampled on 6/11/01 revealed DRO impacts.

E. What was the volume of the release? (if known): **UNKNOWN** gallons

F. When did the release occur? (if known): **A fuel spill was believed to occur on the site on September 24, 1993.**

G. Describe source of on-site drinking water. **Municipal supply, St. Paul**

PART IV: EXCAVATION INFORMATION

A. Dimensions of excavation(s): Diameter **13 ft.**, Depth **12 ft.**

B. Original tank backfill material (sand, gravel, etc.): **N/A**

C. Native soil type (clay, sand, etc.): **Silty clay**

D. Quantity of contaminated soil removed for treatment (cubic yards): **Approximately 110 cyd**

[**Note**: If the volume removed is more than allowed in Fact Sheet 3.6 *Excavation of Petroleum Contaminated Soil During Tank Removal*, please document MPCA staff approval.]

E. Were new tanks and/or piping and dispensers installed? If yes, what volume of contaminated soil was excavated to accommodate the installation of the new tanks and piping?

NO

F. If contaminated soil was removed to accommodate the installation of new tanks and/or piping, show your calculations for the amount of soil removal allowed using Table 6.2 in Fact Sheet 3.6 *Excavation of Petroleum Contaminated Soil During Tank Removal.*

N/A

G. Was ground water encountered or a suspected perched water layer or was there evidence of a seasonally high ground water table (i.e. mottling)? At what depth?

NO

H. If ground water was not encountered during the excavation, what is the expected depth of ground water?

Groundwater table is estimated to be greater than 25 feet below grade based on interpretation of the nearest surface water elevation from the St. Paul East Quadrangle USGS map.

I. Additional investigation is necessary at sites that have visual or other evidence of contamination remaining in the suspected source area, with sandy or silty sand soil [Unified Soil Classification System/American Society for Testing Materials] and where the water table is within 25 feet of the ground surface. See fact sheet #3.6 *Excavation of Petroleum Contaminated Soil*, Part VI Additional Investigation. If a soil boring is necessary, describe the soil screening and analytical results. Attach the boring logs and laboratory results to this report.

No additional investigation is necessary. Excavation was terminated in clay soils and remaining impacts are below MPCA action levels.

J. If no soil boring was performed, explain.

No soil boring was performed because the native soil below the fill material is silty clay and the depth to groundwater is estimated to be greater than 25 feet. The impacted fill was removed.

K. If ground water was encountered or if a soil boring was conducted, was there evidence of ground water contamination? (yes/no) Describe this evidence of contamination, e.g., free product (specify thickness), product sheen, ground water in contact with petroleum contaminated soil, water analytical results, etc. **Note**: If you observe free product, contact MPCA staff immediately, as outlined in fact sheet 3.3 *Free Product: Evaluation and Recovery*.

N/A

L. Was bedrock encountered in the excavation? At what depth?

NO

M. Were other unique conditions associated with this site? If so, explain.

NO

PART V: SAMPLING INFORMATION

A. Briefly describe the field screening methods used to distinguish contaminated from uncontaminated soil:

For soil samples obtained by STS, a photoionization detection (PID) meter was used to screen soils in accordance with MPCA Fact Sheet 3.22 (April, 2000). No PID screening was completed by Waste Management associated with the soil excavation work on June 11, 2001.

B. List soil vapor headspace analysis results collected during excavation of tanks, lines and dispensers. Indicate all sampling locations using sample codes (with sampling depths in parentheses), e.g. R-1 (2 feet), R-2 (10 feet), etc. "R" stands for "removed." Samples collected at different depths at the same

location should be labeled R-1A (2 feet), R-1B (4 feet), R-1C (6 feet), etc. Similarly, if the sample was collected from the sidewall or bottom after excavation was complete, label it S-1 (for sidewall) or B-1 (for "bottom"). Indicate the depth of sample collection. Be sure the sample codes correspond with the site map in part VI, below.

Table B (i) Soil Excavation and Screening Results on 7/11/01 (see Figure 2)

Sample Code	Soil Type	Reading ppm		Sample Code	Soil Type	Reading ppm
R-1 (3.0 ft.)	Fine sand with gravel (SP)	14		R-7 (4.8 ft.)	Silty sand with gravel (SM)	1
R-2 (4.0 ft.)	Fine sand with gravel (SP)	83		R-8 (3.5 ft.)	Silty sand with gravel (SM)	1
R-3 (3.0 ft.)	Fine sand with gravel (SP)	4		R-9 (7.0 ft.)	Silty sand with gravel (SM)	14
R-4 (5.5 ft.)	Silty sand with gravel (SM)	12		S-10 (5.5 ft.)	Fine sand (SP)	2
R-5 (6.5 ft.)	Silty sand with gravel (SM)	2		S-11 (5.0 ft.)	Silty sand (SM)	2
R-6 (4.0 ft.)	Silty sand with gravel (SM)	4		S-12 (7.8 ft.)	Silty sand brown, red (SM)	3

R = removed soil, S = sidewall soil; B = base soil

Note: A PID meter equipped with a 10.6 eV lamp was used to screen soil samples.

Table B (ii) Soil Excavation and Screening on 7/26/01 (see Figure 3)

Sample Code	Soil Type	Reading (ppm)
S-1 (7.0 ft.) Below lamp post	Silty sand with gravel, black (FILL)	8
S-2 (5.0 ft.) Center	Silty sand with gravel, brown (SP) (FILL)	9
S-3 (4.0 ft.) Southwest side	Fine to medium sand, trace silt, brown (SP)(FILL)	7
S-4 (4.0 ft.) Southeast side	Fine to medium sand, trace silt, red brown (SP) -FILL	9
S-5 (5.0 ft.) Northwest side	Fine sand, trace silt, brown (SP) (FILL)	9

Samples locations S-1 to S-5 represent soil areas that were removed from excavation on subsequent excavation dates.

Note: A PID meter equipped with a 10.6 eV lamp was used to screen soil samples.

Table B (iii) Soil Excavation and Screening on 8/24/01 (see Figure 4)

Sample Code	Soil Type	Reading (ppm)
S3-b1 (8.0 ft.) Southwest side (Sidewall sample)	Silty sand with gravel, black (FILL)	9
S3-b2 (10.0 ft.) Southwest side (Base sample)	Silty sand with gravel, brown (SP) FILL	3
S5-b1 (6.0 ft.) Northwest side Removed	Fine to medium sand, trace silt, brown (SP) FILL	9
S5-b2 (10.0 ft.) Northwest side Removed	Fine to medium sand, trace silt, red brown (SP) FILL	6
S5-b3 (11.0 ft.) Northwest side Removed	Fine sand, trace silt, brown (SP) FILL	2
S5-b4 (12.0 ft.) Northwest side (Base-sample)	Silty clay, brown, moist (CL) – NATIVE SOIL	0

Note: An HNU meter equipped with a 10.2 eV lamp was used to screen soil samples.

C. Was the "removed soil" placed back into the excavation basin?

NO

If no, please complete Part VIII: Soil Treatment Information section. If yes, a Limited Site Investigation is necessary (see fact sheet 3.19, *Soil and Ground Water Investigations Performed During Remedial Investigations*).

The impacted soil was stockpiled outside on the concrete pavement and covered with plastic. Soil treatment information is discussed in Part VIII.

D. Briefly describe the soil analytical sampling and handling procedures used:

Grab samples on 7/26/01 and 8/24/01 were collected and handled by STS as outlined in Part II (Soil Sampling Procedures) in MPCA Fact Sheet 3.22 (April, 2000).

E. List below all soil sample analytical results from bottom and side wall samples collected after excavation of tanks, lines and dispensers (i.e., soils left in place when excavation is complete). Code the samples with sampling depths in parentheses as follows: sidewall samples S-1 (8 feet), S-2 (4 feet), etc.; bottom samples B-1 (13 feet), B-2 (14 feet), stockpile samples SP-1, etc. Be sure the sample codes correspond to the site map required in part VI. Do not include analyses from the stockpiled soil.

Table E (i) Results from soil excavation on 6/11/01 (sampled by Waste Management) - see Figure 1

Sample Code	DRO	GRO	Benzene mg/kg	Ethyl-benzene mg/kg	Toluene mg/kg	Xylene mg/kg	Lead mg/kg
W-S Corner	**230**	< 5.6	<0.056	<0.056	**0.062**	<0.17	**231**
Pile East	**2400**	**9.6**	<0.055	<0.055	<0.055	<0.16	**111**
E-W Corner	**120**	< 6.1	<0.061	<0.061	<0.061	<0.18	**119**
West Pile	**190**	< 5.5	<0.055	<0.055	<0.055	<0.16	**271**
Center Pile	**1900**	**10**	<0.054	<0.054	**0.054**	<0.16	**108**
West Center	**1400**	< 5.5	<0.055	<0.055	<0.055	<0.17	**448**

Notes: Attach copies of laboratory reports and chain of custody forms.
STS was not present on June 11,2001 to screen or collect samples.
All the soils were removed and stockpiled ready to be transported to a soil treatment facility.

Table E (ii) Results from soil excavation and screening on 7/26/01 (sampled by STS) - see Figure 3

Sample Code	DRO	Benzene mg/kg	Ethylbenzene mg/kg	Toluene mg/kg	Xylene mg/kg
S-1 (8.0 ft.) Northeast side	<12	<0.066	<0.066	<0.066	<0.20
S-2 (8.0 ft.) Center	<8.8	<0.053	<0.053	<0.053	<0.16
S-3 (8.0 ft.) Southwest side (Soil removed on 8/24/01)	**190**	<0.061	<0.061	<0.061	<0.18
S-4 (8.0 ft.) Southeast side	**10**	<0.059	<0.059	<0.059	<0.18
S-5 (8.0 ft.) Northwest side (Soil removed on 8/24/01)	**110**	<0.058	<0.058	**0.065**	<0.18

Note: Attach copies of laboratory reports and chain of custody forms.

Table E (iii) Results from soil excavation and screening on 8/24/01 (sampled by STS) - see Figure 4.

Sample Code	DRO	Benzene mg/kg	Ethylbenzene mg/kg	Toluene mg/kg	Xylene mg/kg
S3-B2 (Southwest side), 10 ft. bgs	<9.9	<0.060	<0.060	<0.060	<0.18
S5-B3 (Northwest side), 12 ft. bgs	<6.2	<0.060	<0.060	<0.060	<0.18

Note: Attach copies of laboratory reports and chain of custody forms.

PART VI: FIGURES

Attach the following figures to this report:

1. Site location map.
2. Site map(s) drawn to scale illustrating the following:
   a. Location (or former location) of all present and former tanks, piping, and dispensers;
   b. Location of other structures (buildings, canopies, etc.);
   c. Adjacent city, township, or county roadways;
   d. Final extent and depth of excavation;
   e. Location of soil screening samples (e.g. R-1), soil analytical samples (e.g., S-1 or B-1), and any soil borings (e.g., SB-1). Also, attach all boring logs.
   f. North arrow, bar scale and map legend.
   g. Provide location of any on-site water wells. If on-site water wells exist, please provide well logs and/or construction diagrams.
   h. Locations of new tanks, piping and dispensers, if installed.

PART VII: SUMMARY

Briefly summarize evidence indicating whether additional investigation is necessary at the site, as discussed in parts VI and VII of fact sheet 3.6 *Excavation of Petroleum Contaminated Soil During Tank Removal*. If no further action is necessary, the MPCA staff will review this report following notification of soil treatment.

No further investigation is recommended for this site based on field screening and soil analytical results. The impacted fill was removed on June 11, 2001 and during the subsequent excavations on July 11, 2001, July 26, 2001 and August 24, 2001. Soils are waiting approval of treatment according to Section VIII of this report.

MPCA guidance closure criteria was satisfied in accordance with MPCA Fact Sheet 3.6 (April 2000).

a) The base soil that remained was silty clay. Soil samples obtained from the base of the excavation at 12 feet depth had field-screening levels below 10 PID units and had no visual evidence of contamination.

b) Soil analytical results of soils that remain in the excavation are below MPCA action level for additional investigation. The excavation was terminated in clay soils and the base samples had less than 100 parts per million diesel range organics (DRO).

Further investigation of the site is not warranted.

PART VIII: SOIL TREATMENT INFORMATION

A. Soil treatment method used (thermal, land application, composting, other). If you choose "other" specify treatment method:

Thermal (proposed). Soils stockpiled awaiting MPCA approval.

B. Location of treatment site/facility:

C.S. McCrossan, Inc.
7865 Jefferson Highway
Maple Grove, MN 55311

C. Date MPCA approved soil treatment (if thermal treatment was used after May 1, 1991, indicate date that the MPCA permitted thermal treatment facility agreed to accept soil):

The contaminated soil is stockpiled on site pending MPCA approval for thermal treatment.

D. Identify the location of stockpiled contaminated soil:

On site, 15 feet west of excavation. (See Figures 1 through 4)

PART IX: CONSULTANT (OR OTHER) PREPARING THIS REPORT

By signing this document, I/we acknowledge that we are submitting this document on behalf of and as agents of the responsible person or volunteer for this leak site. I/we acknowledge that if information in this document is inaccurate or incomplete, it will delay the completion of remediation and may harm the environment and may result in reduction of reimbursement awards. In addition, I/we acknowledge on behalf of the responsible person or volunteer for this leak site that if this document is determined to contain a false material statement, representation, or certification, or if it omits material information, the responsible person or volunteer may be

found to be in violation of Minn. Stat. § 115.075 (1994) or Minn. 7000.0300 (Duty of Candor), and that the responsible person or volunteer may be liable for civil penalties.

Name and Title:	Signature:	Date signed:
Gideon N Ngobi Assistant Project Scientist	Gideon Ngobi	10/30/01
William B. Tepley Senior Project Engineer	William B. Tepley	10/30/01

Company and mailing address:

STS Consultants Ltd.
10900 - 73rd Ave. N., Suite 150
Maple Grove, MN 55369-5547

Telephone: **763/315-6300**
Fax: **763/315-1836**

If additional investigation is not necessary, please mail this form and all necessary attachments to the MPCA project manager. If additional investigation is necessary, include this form as an appendix to Fact Sheet 3.24 *Investigation Report Form.* **MPCA staff will not review excavation reports indicating a limited site investigation is necessary unless the limited site investigation has been completed.**

Web pages and phone numbers

MPCA staff	http://data.pca.state.mn.us/pca/emplsearch.html
MPCA toll free	1-800-657-3864
LUST web page	http://www.pca.state.mn.us/programs/lust_p.html
MPCA Infor. Request	http://www.pca.state.mn.us/about/inforequest.html
MPCA VPIC program	http://www.pca.state.mn.us/programs/vpic_p.html
PetroFund Web Page	http://www.commerce.state.mn.us/mainpf.htm
PetroFund Phone	651-297-1119, or 1-800-638-0418
State Duty Officer	**651-649-5451 or 1-800-422-0798**

Attachments

Figure 1 - Soil Excavation and Sampling on June 11, 2001.

Figure 2 - Soil Excavation and Screening on July 11, 2001.

Figure 3 - Soil Excavation and Sampling on July 26, 2001.

Figure 4 - Soil Excavation and Sampling on August 24, 2001.

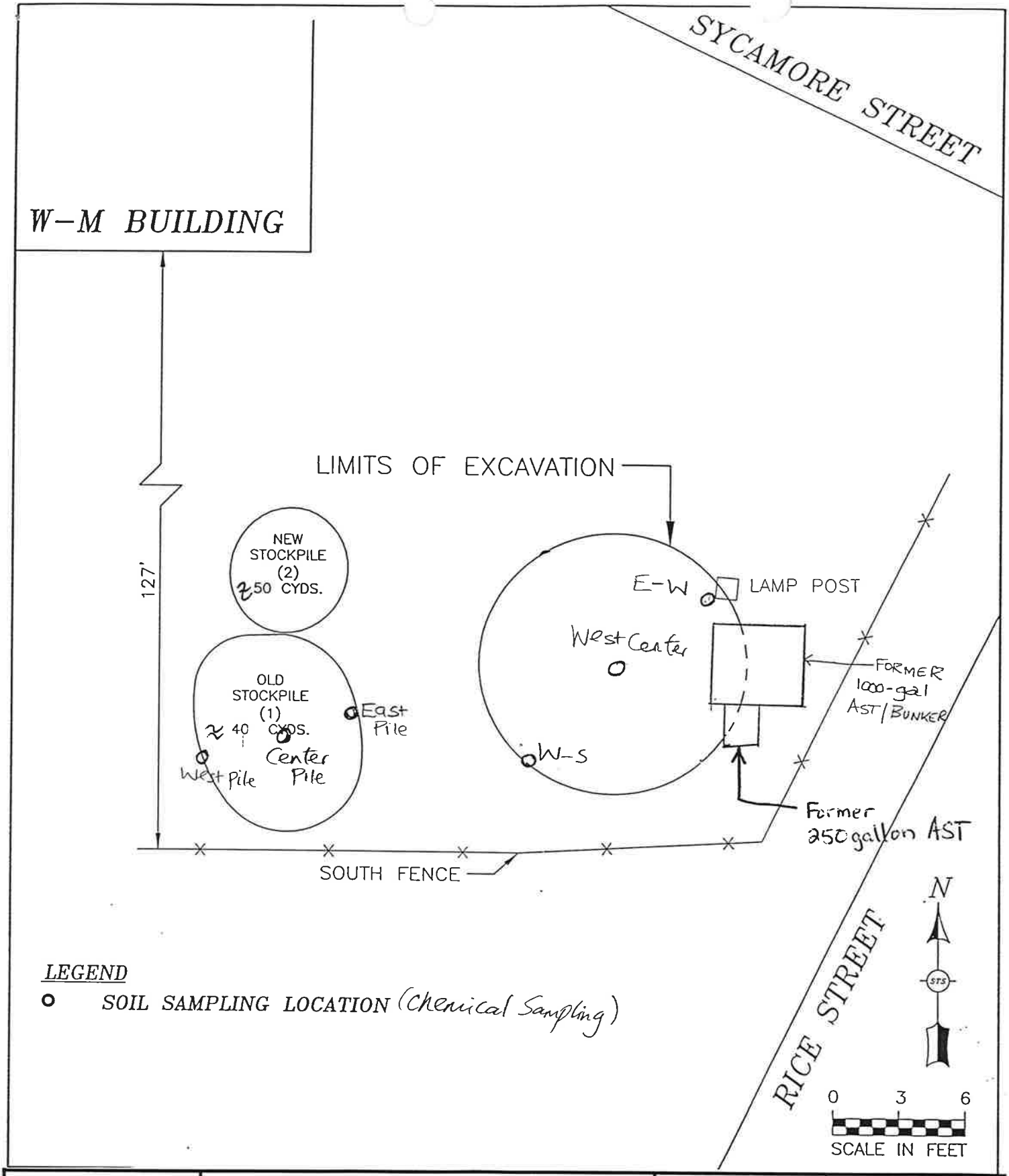
Figure 5 - Site Location diagram.

LABORATORY REPORTS

Pace Analytical; June 25, 2001

Pace Analytical; August 9, 2001

Pace Analytical; September 4, 2001



LEGEND

o *SOIL SAMPLING LOCATION* (Chemical Sampling)

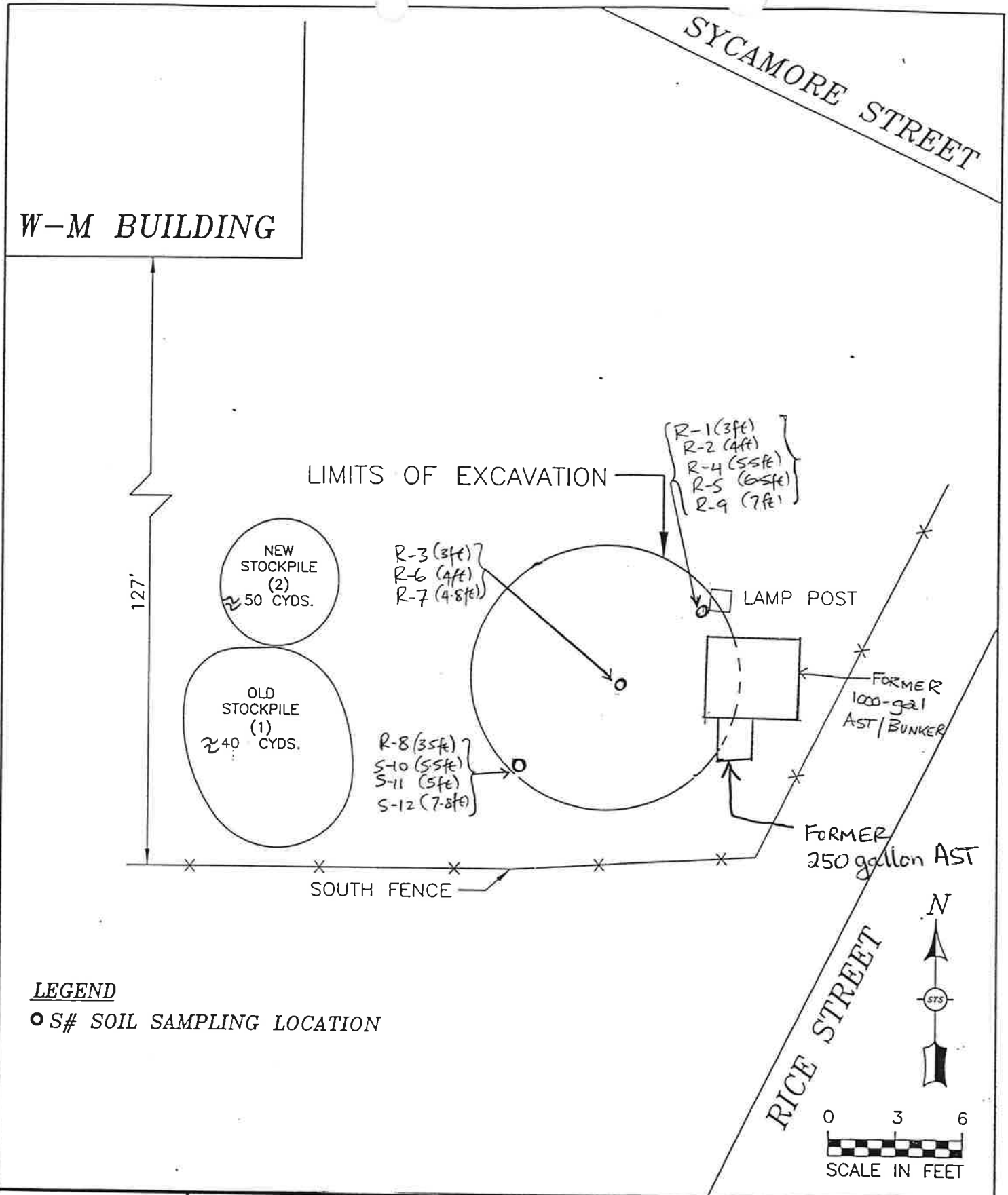
STS Consultants, Ltd.
Consulting Engineers

SITE LOCATION DIAGRAM

Soil Excavation and Chemical sample location on June 11, 2001

755 Rice Street, St.Paul, MN 55117

DRAWN BY	GNN
CHECKED BY	WBT
APPROVED BY	WBT
FILE	SCALE Approximate
STS PROJECT NO. 98350-XA	FIGURE NO. 1



LEGEND

o *S# SOIL SAMPLING LOCATION*

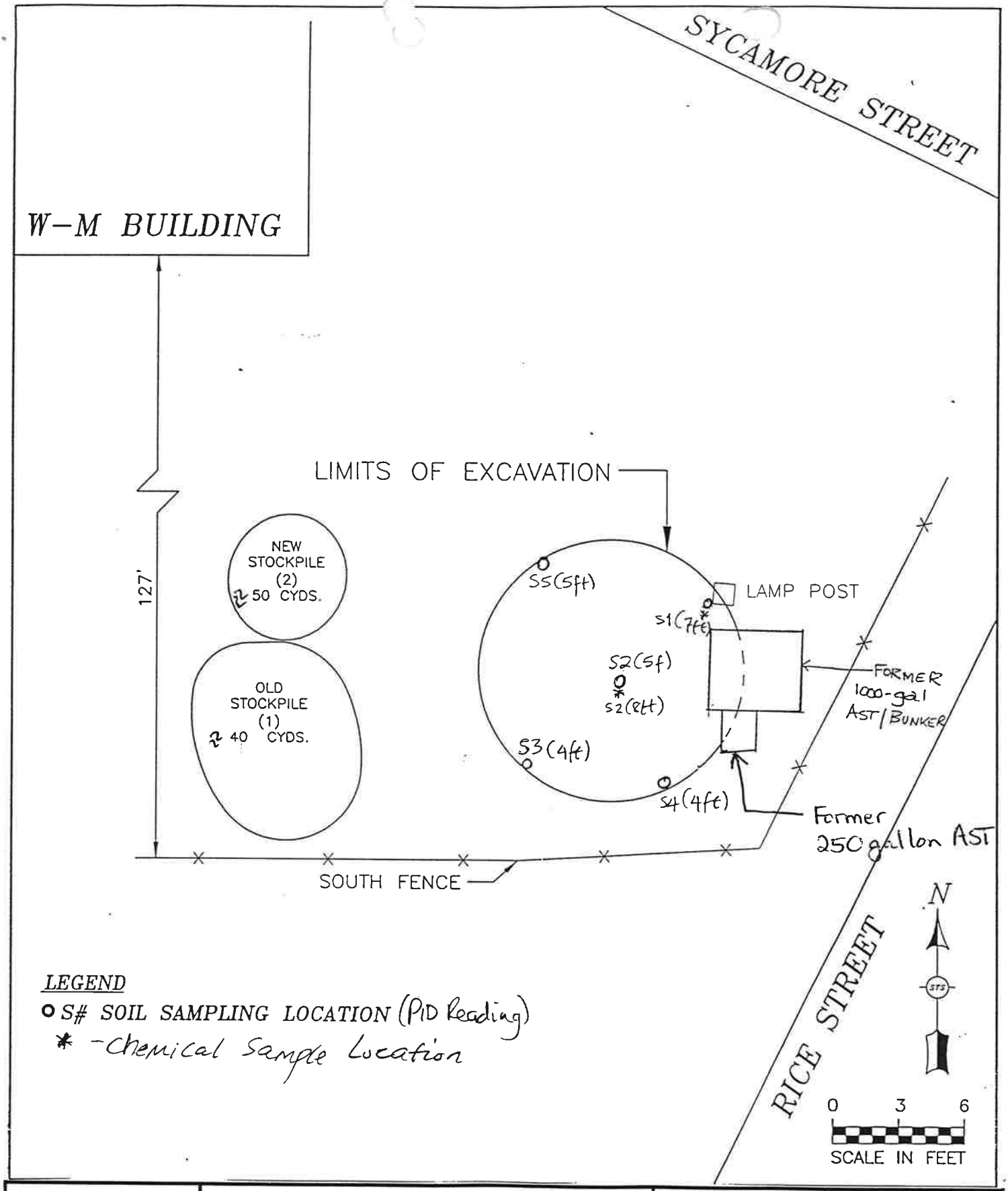
STS Consultants, Ltd.
Consulting Engineers

SITE LOCATION DIAGRAM

Soil Excavation and Screening on July 11,2001

755 Rice Street, St.Paul, MN 55117

DRAWN BY	GNN
CHECKED BY	WBT
APPROVED BY	WBT
FILE	SCALE Approximate
STS PROJECT NO. 98350-XA	FIGURE NO. 2



LEGEND

o S# SOIL SAMPLING LOCATION (PID Reading)

* - Chemical Sample Location

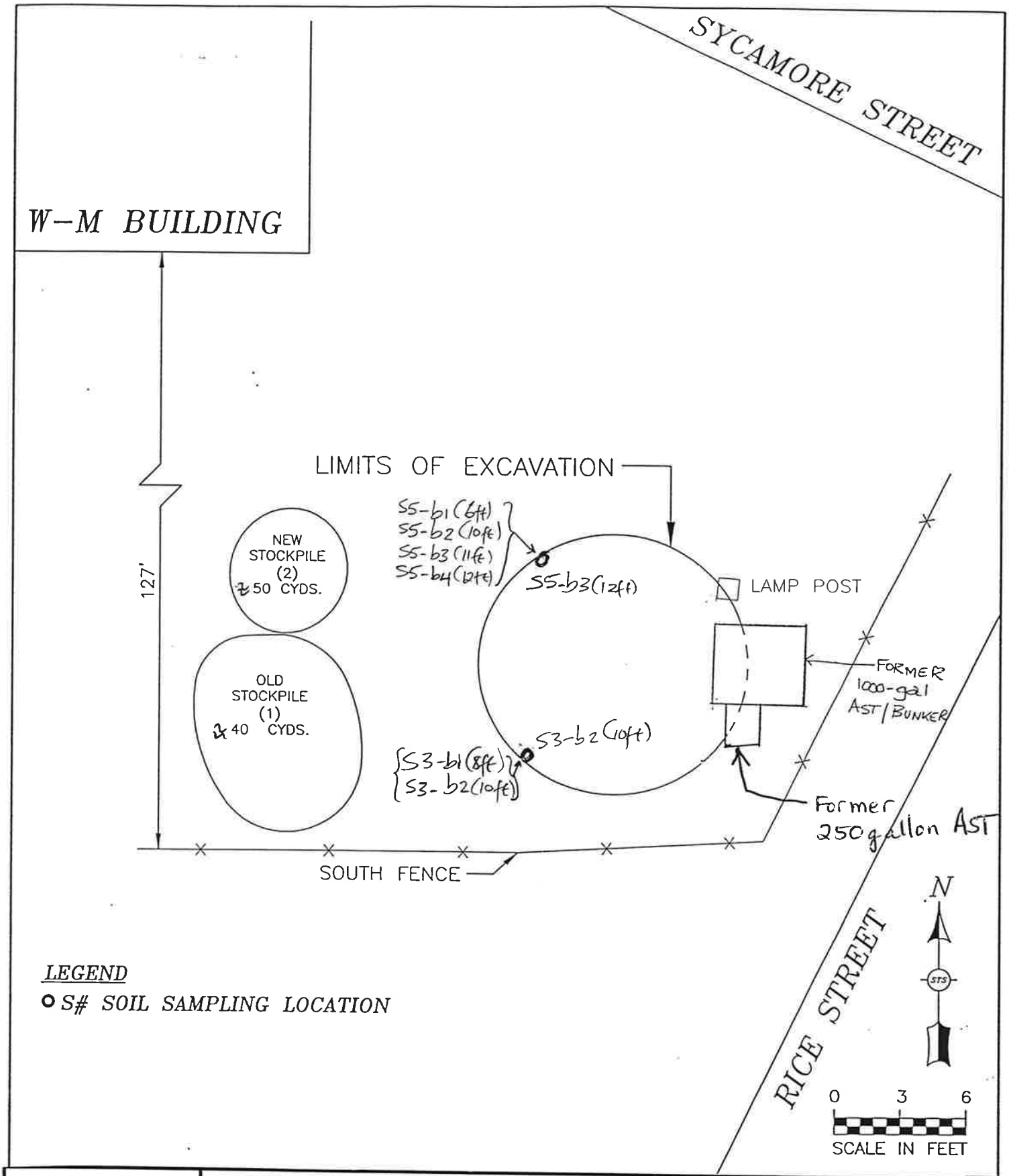
STS Consultants, Ltd.
Consulting Engineers

SITE LOCATION DIAGRAM

Soil Excavation, Screening and Chemical sample location on July 26, 2001

755 Rice Street, St.Paul, MN 55117

DRAWN BY	GNN
CHECKED BY	WBT
APPROVED BY	WBT
FILE	SCALE Approximate
STS PROJECT NO. 98350-XA	FIGURE NO. 3



LEGEND

O S# SOIL SAMPLING LOCATION

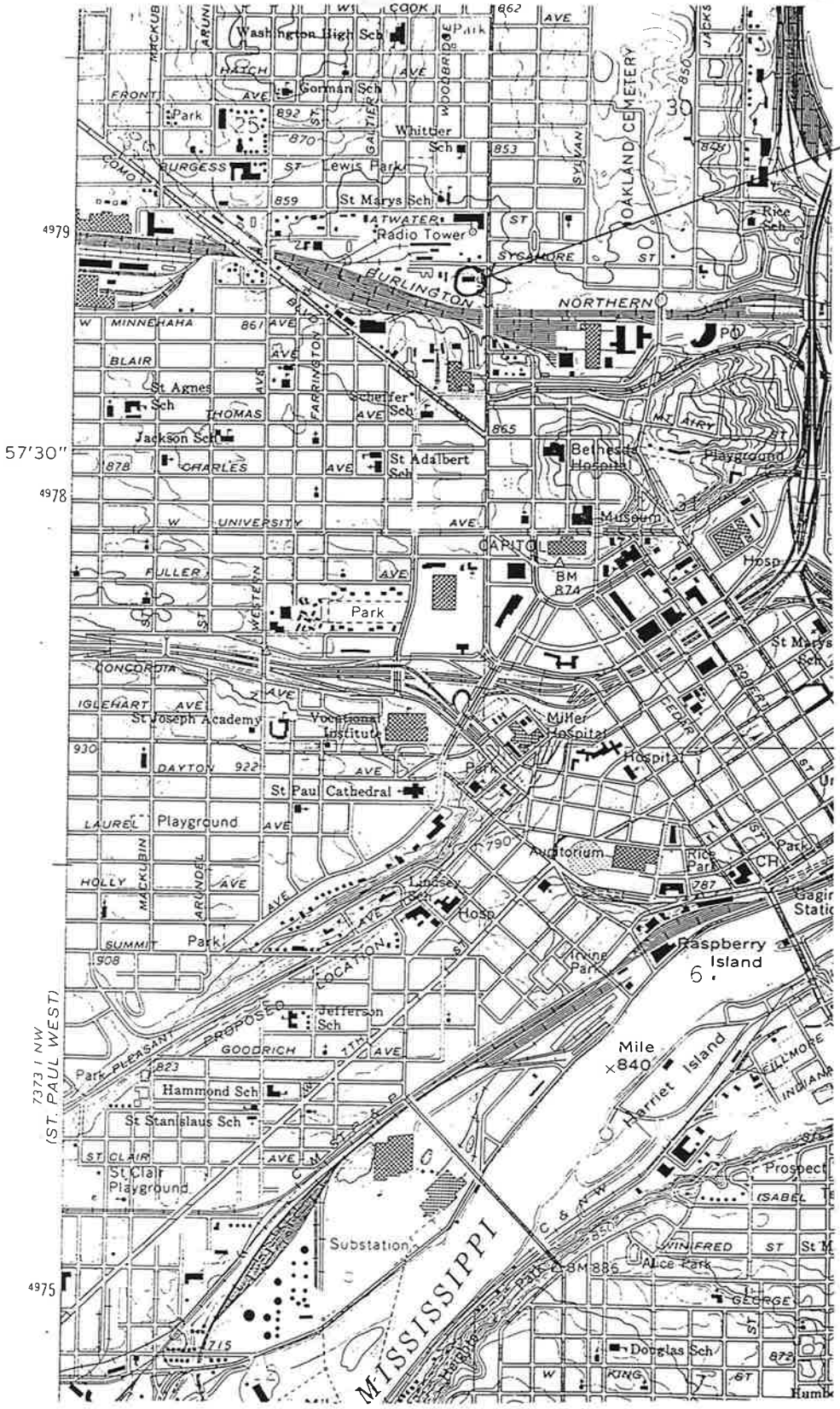
STS Consultants, Ltd.
Consulting Engineers

SITE LOCATION DIAGRAM

Soil Excavation, Screening and Chemical sample location on August 24, 2001

755 Rice Street, St.Paul, MN 55117

DRAWN BY	GNN
CHECKED BY	WBT
APPROVED BY	WBT
FILE	SCALE Approximate
STS PROJECT NO. 98350-XA	FIGURE NO. 4



STS Consultants, Ltd.
Consulting Engineers

SITE LOCATION DIAGRAM

FORMER SUPER CYCLE

ST. PAUL, MINNESOTA

DRAWN BY	P. RZEPECKI
CHECKED BY	
APPROVED BY	
FILE	SCALE 1:24 000
STS PROJECT NO. 98359-XA	FIGURE NO. 5

FIGFRAME.DOC

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1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

June 25, 2001

SAMPLED BY
WASTE MANAGEMENT

Mr. Tim Jackson
Waste Management, Inc.
740 Westminister Street
St. Paul, MN 55101

RE: Lab Project Number: 1045540
Client Project ID: SUPER CYCLE

Dear Mr. Jackson:

Enclosed are the analytical results for sample(s) received by the laboratory on June 11, 2001. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carol Davy

Carol Davy
Project Manager

State of Minnesota laboratory 027-053-137

Enclosures

REPORT OF LABORATORY ANALYSIS

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Phone: 612.607.1700
Fax: 612.607.6444

Waste Management, Inc.
740 Westminister Street
St. Paul, MN 55101

Lab Project Number: 1045540
Client Project ID: SUPER CYCLE

Attn: Mr. Tim Jackson
Phone: (651)224-1135

Solid results are reported on a dry weight basis

Lab Sample No: 102795473 Project Sample Number: 1045540-001 Date Collected: 06/11/01 10:11
Client Sample ID: AM361527 WS CORNER Matrix: Soil Date Received: 06/11/01 15:38

Parameters	Results	Units	Report Limit	Analyzed		CAS No.	Ftnote	Reg Limit
Metals								
Percent Moisture	Method:							
Percent Moisture	10.9	%		06/14/01	LSB			
Metals, Trace ICP	Prep/Method: EPA 3050 / EPA 6010							
Lead	231.	mg/kg	0.330	06/22/01 16:59	BDA	7439-92-1		
Date Digested				06/21/01				
GC Semivolatiles								
WI DRO in Soil	Prep/Method: TPH DRO WI extracti / TPH DRO Wisconsin							
Diesel Range Organics	230	mg/kg	55.	06/14/01 21:11	JMZ		1	
n-Triacontane	97	%		06/14/01 21:11	JMZ	638-68-6		
Date Extracted				06/14/01				
GC Volatiles								
WI GRO and PVOC, soil	Prep/Method: TPH GRO/PVOC WI ext / TPH GRO/PVOC WI							
Benzene	ND	mg/kg	0.056	06/22/01 08:29	EKB	71-43-2		
Ethylbenzene	ND	mg/kg	0.056	06/22/01 08:29	EKB	100-41-4		
Toluene	0.062	mg/kg	0.056	06/22/01 08:29	EKB	108-88-3		
Xylene (Total)	ND	mg/kg	0.17	06/22/01 08:29	EKB	1330-20-7		
Gasoline Range Organics	ND	mg/kg	5.6	06/22/01 08:29	EKB			
Fluorobenzene (S)	88	%		06/22/01 08:29	EKB	462-06-6		

Date: 06/25/01

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Lab Project Number: 1045540
Client Project ID: SUPER CYCLE

Lab Sample No: 102795481 Project Sample Number: 1045540-002 Date Collected: 06/11/01 10:12
Client Sample ID: AM361531 PILE EAST Matrix: Soil Date Received: 06/11/01 15:38

Parameters	Results	Units	Report Limit	Analyzed		CAS No.	Ftnote	Reg Limit
Metals								
Percent Moisture	Method:							
Percent Moisture	9.0	%		06/14/01	LSB			
Metals, Trace ICP	Prep/Method:	EPA 3050 / EPA 6010						
Lead	111.	mg/kg	0.151	06/22/01 17:04	BDA	7439-92-1		
Date Digested				06/21/01				
GC Semivolatiles								
WI DRO in Soil	Prep/Method:	TPH DRO WI extracti / TPH DRO Wisconsin						
Diesel Range Organics	2400	mg/kg	270	06/15/01 11:34	JMZ		1	
n-Triacontane	0	%		06/15/01 11:34	JMZ	638-68-6	2	
Date Extracted				06/14/01				
GC Volatiles								
WI GRO and PVOC, soil	Prep/Method:	TPH GRO/PVOC WI ext / TPH GRO/PVOC WI						
Benzene	ND	mg/kg	0.055	06/22/01 06:32	EKB	71-43-2		
Ethylbenzene	ND	mg/kg	0.055	06/22/01 06:32	EKB	100-41-4		
Toluene	ND	mg/kg	0.055	06/22/01 06:32	EKB	108-88-3		
Xylene (Total)	ND	mg/kg	0.16	06/22/01 06:32	EKB	1330-20-7		
Gasoline Range Organics	9.6	mg/kg	5.5	06/22/01 06:32	EKB			
Fluorobenzene (S)	102	%		06/22/01 06:32	EKB	462-06-6	3	

Date: 06/25/01

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Lab Project Number: 1045540
Client Project ID: SUPER CYCLE

Lab Sample No: 102795499 Project Sample Number: 1045540-003 Date Collected: 06/11/01 10:10
Client Sample ID: AM361797 EW CORNER Matrix: Soil Date Received: 06/11/01 15:38

Parameters	Results	Units	Report Limit	Analyzed		CAS No.	Ftnote	Reg Limit
Metals								
Percent Moisture	Method:							
Percent Moisture	18.1	%		06/14/01	LSB			
Metals, Trace ICP	Prep/Method: EPA 3050 / EPA 6010							
Lead	119.	mg/kg	0.178	06/22/01 17:09	BDA	7439-92-1		
Date Digested				06/21/01				
GC Semivolatiles								
WI DRO in Soil	Prep/Method: TPH DRO WI extracti / TPH DRO Wisconsin							
Diesel Range Organics	120	mg/kg	12.	06/14/01 23:41	JMZ		4	
n-Triacontane	73	%		06/14/01 23:41	JMZ	638-68-6		
Date Extracted				06/14/01				
GC Volatiles								
WI GRO and PVOC, soil	Prep/Method: TPH GRO/PVOC WI ext / TPH GRO/PVOC WI							
Benzene	ND	mg/kg	0.061	06/22/01 09:29	EKB	71-43-2		
Ethylbenzene	ND	mg/kg	0.061	06/22/01 09:29	EKB	100-41-4		
Toluene	ND	mg/kg	0.061	06/22/01 09:29	EKB	108-88-3		
Xylene (Total)	ND	mg/kg	0.18	06/22/01 09:29	EKB	1330-20-7		
Gasoline Range Organics	ND	mg/kg	6.1	06/22/01 09:29	EKB			
Fluorobenzene (S)	90	%		06/22/01 09:29	EKB	462-06-6		

Date: 06/25/01

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Lab Project Number: 1045540
Client Project ID: SUPER CYCLE

Lab Sample No: 102795507 Project Sample Number: 1045540-004 Date Collected: 06/11/01 10:14
Client Sample ID: AM361112 WEST PILE Matrix: Soil Date Received: 06/11/01 15:38

Parameters	Results	Units	Report Limit	Analyzed		CAS No.	Ftnote	Reg Limit
Metals								
Percent Moisture	Method:							
Percent Moisture	9.0	%		06/14/01	LSB			
Metals, Trace ICP	Prep/Method: EPA 3050 / EPA 6010							
Lead	271.	mg/kg	0.305	06/22/01 17:14	BDA	7439-92-1		
Date Digested				06/21/01				
GC Semivolatiles								
WI DRO in Soil	Prep/Method: TPH DRO WI extracti / TPH DRO Wisconsin							
Diesel Range Organics	190	mg/kg	11.	06/15/01 09:04	JMZ		4	
n-Triacontane	84	%		06/15/01 09:04	JMZ	638-68-6		
Date Extracted				06/14/01				
GC Volatiles								
WI GRO and PVOC, soil	Prep/Method: TPH GRO/PVOC WI ext / TPH GRO/PVOC WI							
Benzene	ND	mg/kg	0.055	06/22/01 07:36	EKB	71-43-2		
Ethylbenzene	ND	mg/kg	0.055	06/22/01 07:36	EKB	100-41-4		
Toluene	ND	mg/kg	0.055	06/22/01 07:36	EKB	108-88-3		
Xylene (Total)	ND	mg/kg	0.16	06/22/01 07:36	EKB	1330-20-7		
Gasoline Range Organics	ND	mg/kg	5.5	06/22/01 07:36	EKB			
Fluorobenzene (S)	97	%		06/22/01 07:36	EKB	462-06-6		

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Lab Project Number: 1045540
Client Project ID: SUPER CYCLE

Lab Sample No: 102795515 Project Sample Number: 1045540-005 Date Collected: 06/11/01 10:13
Client Sample ID: AM361542 CENTER PILE Matrix: Soil Date Received: 06/11/01 15:38

Parameters	Results	Units	Report Limit	Analyzed		CAS No.	Ftnote	Reg Limit
Metals								
Percent Moisture	Method:							
Percent Moisture	6.7	%		06/14/01	LSB			
Metals, Trace ICP	Prep/Method: EPA 3050 / EPA 6010							
Lead	108.	mg/kg	0.152	06/22/01 17:19	BDA	7439-92-1		
Date Digested				06/21/01				
GC Semivolatiles								
WI DRO in Soil	Prep/Method: TPH DRO WI extracti / TPH DRO Wisconsin							
Diesel Range Organics	1900	mg/kg	51.	06/15/01 00:56	JMZ		4	
n-Triacontane	72	%		06/15/01 00:56	JMZ	638-68-6		
Date Extracted				06/14/01				
GC Volatiles								
WI GRO and PVOC, soil	Prep/Method: TPH GRO/PVOC WI ext / TPH GRO/PVOC WI							
Benzene	ND	mg/kg	0.054	06/22/01 08:40	EKB	71-43-2		
Ethylbenzene	ND	mg/kg	0.054	06/22/01 08:40	EKB	100-41-4		
Toluene	0.054	mg/kg	0.054	06/22/01 08:40	EKB	108-88-3		
Xylene (Total)	ND	mg/kg	0.16	06/22/01 08:40	EKB	1330-20-7		
Gasoline Range Organics	10.	mg/kg	5.4	06/22/01 08:40	EKB			
Fluorobenzene (S)	40	%		06/22/01 08:40	EKB	462-06-6	3,5,6	

Date: 06/25/01

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 1045540
Client Project ID: SUPER CYCLE

Lab Sample No: 102795523 Project Sample Number: 1045540-006 Date Collected: 06/11/01 10:13
Client Sample ID: AM361536 WEST CENTER Matrix: Soil Date Received: 06/11/01 15:38

Parameters	Results	Units	Report Limit	Analyzed		CAS No.	Ftnote	Reg Limit
Metals								
Percent Moisture	Method:							
Percent Moisture	9.1	%		06/14/01	LSB			
Metals, Trace ICP	Prep/Method: EPA 3050 / EPA 6010							
Lead	448.	mg/kg	0.463	06/22/01 17:24	BDA	7439-92-1		
Date Digested				06/21/01				
GC Semivolatiles								
WI DRO in Soil	Prep/Method: TPH DRO WI extracti / TPH DRO Wisconsin							
Diesel Range Organics	1400	mg/kg	54.	06/15/01 03:26	JMZ		4	
n-Triacontane	86	%		06/15/01 03:26	JMZ	638-68-6		
Date Extracted				06/14/01				
GC Volatiles								
WI GRO and PVOC, soil	Prep/Method: TPH GRO/PVOC WI ext / TPH GRO/PVOC WI							
Benzene	ND	mg/kg	0.055	06/22/01 09:44	EKB	71-43-2		
Ethylbenzene	ND	mg/kg	0.055	06/22/01 09:44	EKB	100-41-4		
Toluene	ND	mg/kg	0.055	06/22/01 09:44	EKB	108-88-3		
Xylene (Total)	ND	mg/kg	0.17	06/22/01 09:44	EKB	1330-20-7		
Gasoline Range Organics	ND	mg/kg	5.5	06/22/01 09:44	EKB			
Fluorobenzene (S)	92	%		06/22/01 09:44	EKB	462-06-6		

REPORT OF LABORATORY ANALYSIS

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Phone: 612.607.1700
Fax: 612.607.6444

Lab Project Number: 1045540
Client Project ID: SUPER CYCLE

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
(S)	Surrogate
[1]	Sample was not recieved in standard DRO jar.
[2]	Spike and/or surrogate recoveries could not be calculated due to sample dilution.
[3]	High boiling point hydrocarbons are present in sample.
[4]	Sample was not received in standard DRO jar.
[5]	Spiked sample recovery is not within control limits.
[6]	The surrogate recovery was outside QC acceptance limits due to matrix interference.

REPORT OF LABORATORY ANALYSIS

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Phone: 612.607.1700
Fax: 612.607.6444

QUALITY CONTROL DATA

Lab Project Number: 1045540
Client Project ID: SUPER CYCLE

QC Batch: 59701 Analysis Method: TPH DRO Wisconsin
QC Batch Method: TPH DRO WI extracti Analysis Description: WI DRO in Soil
Associated Lab Samples: 102795473 102795481 102795499 102795507 102795515 102795523

METHOD BLANK: 102796133
Associated Lab Samples: 102795473 102795481 102795499 102795507 102795515 102795523

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Diesel Range Organics	mg/kg	ND	10.	
n-Triacontane	%	68		

LABORATORY CONTROL SAMPLE & LCSD: 102796141 102796158

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
Diesel Range Organics	mg/kg	200	142.3	144.5	71	72	2	
n-Triacontane					74	73		

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QUALITY CONTROL DATA

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Phone: 612.607.1700
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Lab Project Number: 1045540
Client Project ID: SUPER CYCLE

QC Batch: 59782
Analysis Method: TPH GRO/PVOC WI
QC Batch Method: TPH GRO/PVOC WI ext
Analysis Description: WI GRO and PVOC, soil
Associated Lab Samples: 102795473 102795481 102795499 102795507 102795515 102795523

METHOD BLANK: 102800547
Associated Lab Samples: 102795473 102795481 102795499 102795507 102795515 102795523

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	mg/kg	ND	0.050	
Ethylbenzene	mg/kg	ND	0.050	
Toluene	mg/kg	ND	0.050	
Xylene (Total)	mg/kg	ND	0.15	
Gasoline Range Organics	mg/kg	ND	5.0	
Fluorobenzene (S)	%	94		

LABORATORY CONTROL SAMPLE & LCSD: 102800554 102800562

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
Benzene	mg/kg	5.000	4.259	4.104	85	82	4	
Ethylbenzene	mg/kg	5.000	4.580	4.374	92	88	5	
Toluene	mg/kg	5.000	4.157	4.004	83	80	4	
Xylene (Total)	mg/kg	15	13.53	12.90	90	86	5	
Gasoline Range Organics	mg/kg	50	47.27	47.41	94	95	0	
Fluorobenzene (S)					107	101		

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QUALITY CONTROL DATA

Lab Project Number: 1045540
Client Project ID: SUPER CYCLE

QC Batch: 59702 Analysis Method:
QC Batch Method: Analysis Description: Percent Moisture
Associated Lab Samples: 102795473 102795481 102795499 102795507 102795515 102795523

METHOD BLANK: 102796166
Associated Lab Samples: 102795473 102795481 102795499 102795507 102795515 102795523

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Percent Moisture	%	0		

SAMPLE DUPLICATE: 102796174

Parameter	Units	102790714 Result	DUP Result	RPD	Footnotes
Percent Moisture	%	18.20	18.50	1	

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QUALITY CONTROL DATA

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Phone: 612.607.1700
Fax: 612.607.6444

Lab Project Number: 1045540
Client Project ID: SUPER CYCLE

QC Batch: 59993
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: Metals, Trace ICP
Associated Lab Samples: 102795473 102795481 102795499 102795507 102795515 102795523

METHOD BLANK: 102812039
Associated Lab Samples: 102795473 102795481 102795499 102795507 102795515 102795523

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Lead	mg/kg	ND	0.150	

LABORATORY CONTROL SAMPLE: 102812047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/kg	1.000	0.9425	94	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 102812054 102812062

Parameter	Units	102786118 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Lead	mg/kg	226.9	53.28	257.1	251.6	57	48	2	1

Date: 06/25/01

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Fax: 612.607.6444

Lab Project Number: 1045540
Client Project ID: SUPER CYCLE

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not Detected
NC	Not Calculable
RPD	Relative Percent Difference
(S)	Surrogate
[1]	The spike recovery was outside acceptance limits for the MS and /or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

588730

Page: 1 of 1

To Be Completed by Pace Analytical and Client

Section A — Required Client Information:
Company: Waste Management
Address: 740 Westminister St. St. Paul, MN 55101
Phone: 651-224-1135 Fax: 651-774-0995

Section B — Required Client Information:
Report To: Tim Jackson
Copy To: Paul Greebmann Environmental Health.
Invoice To: Tim Jackson
P.O.: 1300
Project Name: Super Cycle
Project Number:

Client Information (Check quote/contract):
Requested Due Date: 6-25-01 *TAT: 2 Weeks
* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

Section C — To Be Completed by Pace Analytical and Client
Quote Reference:
Project Manager: Carl Dzuy
Project #: 1045540
Profile #: WASTE MAN 9851 # 2
Requested Analysis:

Section D — Required Client Information:

SAMPLE ID
One character per box. (A–Z, 0–9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	BTEX	Lead	GRO PPM	DRO PPM	Remarks / Lab ID
1	AM36152 7 WS Corner	SL	06/11/01	10:11a	1	X							✓	✓	✓	✓	10279547 3
2	AM36153 1 Pile East	SL	06/11/01	10:12a	1	X							✓	✓	✓	✓	10279548 1
3	AM36179 7 EW Corner	SL	06/11/01	10:10a	1	X							✓	✓	✓	✓	10279549 9
4	AM36111 2 West Pile	SL	06/11/01	10:14a	1	X							✓	✓	✓	✓	10279550 7
5	AM36154 2 Center Pile	SL	06/11/01	10:13a	1	X							✓	✓	✓	✓	10279551 5
6	AM36153 6 West Center	SL	06/11/01	10:13a	1	X							✓	✓	✓	✓	10279552 3
7																	
8																	
9																	
10																	
11																	
12																	

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
1	WMT	6/11/01	2:03 PM	D.Z. Zhu/Pace	6/11/01	15:39

Additional Comments:

Split and preserved in the lab,
CAD 6-11-01

Pace Project No.:

SAMPLE CONDITION

Temp: 15 °C | Received on Ice: (Y) / N | Sealed Cooler: Y / (N) | Samples Intact: (Y) N | pH

ORIGINAL

SEE REVERSE SIDE FOR INSTRUCTIONS

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Fax: 612.607.6444

August 09, 2001

Sampled by STS
7/26/01

Mr. Bill Tepley
STS Consultants
10900 73rd Avenue North
Suite 150
Maple Grove, MN 55369

RE: Lab Project Number: 1047062
Client Project ID: WasteManUST-98359XA Super Cycl

Dear Mr. Tepley:

Enclosed are the analytical results for sample(s) received by the laboratory on July 26, 2001. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Diane J. Anderson
Project Manager

State of Minnesota laboratory 027-053-137

Enclosures

REPORT OF LABORATORY ANALYSIS

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Fax: 612.607.6444

STS Consultants
10900 73rd Avenue North
Suite 150
Maple Grove, MN 55369

Lab Project Number: 1047062
Client Project ID: WasteManUST-98359XA Super Cycl

Attn: Mr. Bill Tepley
Phone: 612-315-6300

Solid results are reported on a dry weight basis

Lab Sample No: 102881521 Project Sample Number: 1047062-001 Date Collected: 07/26/01 11:00
Client Sample ID: S1 Matrix: Soil Date Received: 07/26/01 16:34

Parameters	Results	Units	Report Limit	Analyzed		CAS No.	Ftnote	Reg Limit
Metals								
Percent Moisture	Method:							
Percent Moisture	23.7	%		08/01/01	JMZ			
GC Semivolatiles								
WI DRO in Soil	Prep/Method:	TPH DRO WI extracti / TPH DRO Wisconsin						
Diesel Range Organics	ND	mg/kg	12.	08/05/01 15:29	JMZ			
n-Triacontane	66	%		08/05/01 15:29	JMZ	638-68-6		
Date Extracted				08/01/01				
GC Volatiles								
WI GRO and PVOC, soil	Prep/Method:	TPH GRO/PVOC WI ext / TPH GRO/PVOC WI						
Benzene	ND	mg/kg	0.066	08/08/01 21:05	EKB	71-43-2		
Ethylbenzene	ND	mg/kg	0.066	08/08/01 21:05	EKB	100-41-4		
Toluene	ND	mg/kg	0.066	08/08/01 21:05	EKB	108-88-3		
Xylene (Total)	ND	mg/kg	0.20	08/08/01 21:05	EKB	1330-20-7		
Fluorobenzene (S)	114	%		08/08/01 21:05	EKB	462-06-6		

Lab Sample No: 102881539 Project Sample Number: 1047062-002 Date Collected: 07/26/01 11:00
Client Sample ID: S2 Matrix: Soil Date Received: 07/26/01 16:34

Parameters	Results	Units	Report Limit	Analyzed		CAS No.	Ftnote	Reg Limit
Metals								
Percent Moisture	Method:							
Percent Moisture	5.4	%		08/01/01	JMZ			

Date: 08/09/01

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Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Lab Project Number: 1047062
Client Project ID: WasteManUST-98359XA Super Cycl

Lab Sample No: 102881539 Project Sample Number: 1047062-002 Date Collected: 07/26/01 11:00
Client Sample ID: S2 Matrix: Soil Date Received: 07/26/01 16:34

Parameters	Results	Units	Report Limit	Analyzed		CAS No.	Ftnote	Reg Limit
GC Semivolatiles								
WI DRO in Soil	Prep/Method: TPH DRO WI extracti / TPH DRO Wisconsin							
Diesel Range Organics	ND	mg/kg	8.8	08/08/01 10:41	JMZ			
n-Triacontane	98	%		08/08/01 10:41	JMZ	638-68-6		
Date Extracted				08/01/01				
GC Volatiles								
WI GRO and PVOC, soil	Prep/Method: TPH GRO/PVOC WI ext / TPH GRO/PVOC WI							
Benzene	ND	mg/kg	0.053	08/08/01 20:02	EKB	71-43-2		
Ethylbenzene	ND	mg/kg	0.053	08/08/01 20:02	EKB	100-41-4		
Toluene	ND	mg/kg	0.053	08/08/01 20:02	EKB	108-88-3		
Xylene (Total)	ND	mg/kg	0.16	08/08/01 20:02	EKB	1330-20-7		
Fluorobenzene (S)	122	%		08/08/01 20:02	EKB	462-06-6		

Lab Sample No: 102881547 Project Sample Number: 1047062-003 Date Collected: 07/26/01 11:00
Client Sample ID: S3 Matrix: Soil Date Received: 07/26/01 16:34

Parameters	Results	Units	Report Limit	Analyzed		CAS No.	Ftnote	Reg Limit
Metals								
Percent Moisture	Method:							
Percent Moisture	18.0	%		08/01/01	JMZ			
GC Semivolatiles								
WI DRO in Soil	Prep/Method: TPH DRO WI extracti / TPH DRO Wisconsin							
Diesel Range Organics	190	mg/kg	49.	08/09/01 09:36	JMZ			
n-Triacontane	117	%		08/09/01 09:36	JMZ	638-68-6		
Date Extracted				08/01/01				
GC Volatiles								
WI GRO and PVOC, soil	Prep/Method: TPH GRO/PVOC WI ext / TPH GRO/PVOC WI							
Benzene	ND	mg/kg	0.061	08/08/01 20:33	EKB	71-43-2		

Date: 08/09/01

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Fax: 612.607.6444

Lab Project Number: 1047062
Client Project ID: WasteManUST-98359XA Super Cycl

Lab Sample No: 102881547 Project Sample Number: 1047062-003 Date Collected: 07/26/01 11:00
Client Sample ID: S3 Matrix: Soil Date Received: 07/26/01 16:34

Parameters	Results	Units	Report Limit	Analyzed		CAS No.	Ftnote	Reg Limit
Ethylbenzene	ND	mg/kg	0.061	08/08/01 20:33	EKB	100-41-4		
Toluene	ND	mg/kg	0.061	08/08/01 20:33	EKB	108-88-3		
Xylene (Total)	ND	mg/kg	0.18	08/08/01 20:33	EKB	1330-20-7		
Fluorobenzene (S)	112	%		08/08/01 20:33	EKB	462-06-6		

Lab Sample No: 102881554 Project Sample Number: 1047062-004 Date Collected: 07/26/01 11:00
Client Sample ID: S4 Matrix: Soil Date Received: 07/26/01 16:34

Parameters	Results	Units	Report Limit	Analyzed		CAS No.	Ftnote	Reg Limit
Metals								
Percent Moisture	Method:							
Percent Moisture	14.6	%		08/01/01	JMZ			
GC Semivolatiles								
WI DRO in Soil	Prep/Method:	TPH DRO WI extracti / TPH DRO Wisconsin						
Diesel Range Organics	10.	mg/kg	10.	08/09/01 10:23	JMZ			
n-Triacontane	21	%		08/09/01 10:23	JMZ	638-68-6	1	
Date Extracted				08/01/01				
GC Volatiles								
WI GRO and PVOC, soil	Prep/Method:	TPH GRO/PVOC WI ext / TPH GRO/PVOC WI						
Benzene	ND	mg/kg	0.059	08/08/01 18:58	EKB	71-43-2		
Ethylbenzene	ND	mg/kg	0.059	08/08/01 18:58	EKB	100-41-4		
Toluene	ND	mg/kg	0.059	08/08/01 18:58	EKB	108-88-3		
Xylene (Total)	ND	mg/kg	0.18	08/08/01 18:58	EKB	1330-20-7		
Fluorobenzene (S)	119	%		08/08/01 18:58	EKB	462-06-6		

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Lab Project Number: 1047062
Client Project ID: WasteManUST-98359XA Super Cycl

Lab Sample No: 102881562 Project Sample Number: 1047062-005 Date Collected: 07/26/01 11:00
Client Sample ID: S5 Matrix: Soil Date Received: 07/26/01 16:34

Parameters	Results	Units	Report Limit	Analyzed		CAS No.	Ftnote	Reg Limit
Metals								
Percent Moisture	Method:							
Percent Moisture	14.3	%		08/01/01	JMZ			
GC Semivolatiles								
WI DRO in Soil	Prep/Method:	TPH DRO WI extracti / TPH DRO Wisconsin						
Diesel Range Organics	110	mg/kg	48.	08/09/01 11:09	JMZ			
n-Triacontane	110	%		08/09/01 11:09	JMZ	638-68-6		
Date Extracted				08/01/01				
GC Volatiles								
WI GRO and PVOC, soil	Prep/Method:	TPH GRO/PVOC WI ext / TPH GRO/PVOC WI						
Benzene	ND	mg/kg	0.058	08/08/01 19:30	EKB	71-43-2		
Ethylbenzene	ND	mg/kg	0.058	08/08/01 19:30	EKB	100-41-4		
Toluene	0.065	mg/kg	0.058	08/08/01 19:30	EKB	108-88-3		
Xylene (Total)	ND	mg/kg	0.18	08/08/01 19:30	EKB	1330-20-7		
Fluorobenzene (S)	128	%		08/08/01 19:30	EKB	462-06-6		

Date: 08/09/01

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Fax: 612.607.6444

Lab Project Number: 1047062
Client Project ID: WasteManUST-98359XA Super Cycl

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
(S)	Surrogate
[1]	The surrogate recovery was outside QC acceptance limits due to matrix interference.

Date: 08/09/01

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QUALITY CONTROL DATA

Lab Project Number: 1047062
Client Project ID: WasteManUST-98359XA Super Cycl

QC Batch: 61539 Analysis Method: TPH DRO Wisconsin
QC Batch Method: TPH DRO WI extracti Analysis Description: WI DRO in Soil
Associated Lab Samples: 102881521 102881539 102881547 102881554 102881562

METHOD BLANK: 102895141
Associated Lab Samples: 102881521 102881539 102881547 102881554 102881562

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Diesel Range Organics	mg/kg	ND	10.	
n-Triacontane	%	76		

LABORATORY CONTROL SAMPLE & LCSD: 102895158 102895166

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
Diesel Range Organics	mg/kg	200	197.5	193.9	99	97	2	
n-Triacontane					107	105		

Date: 08/09/01

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QUALITY CONTROL DATA

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Lab Project Number: 1047062
Client Project ID: WasteManUST-98359XA Super Cycl

QC Batch: 61760
QC Batch Method: TPH GRO/PVOC WI ext
Analysis Method: TPH GRO/PVOC WI
Analysis Description: WI GRO and PVOC, soil
Associated Lab Samples: 102881521 102881539 102881547 102881554 102881562

METHOD BLANK: 102905353
Associated Lab Samples: 102881521 102881539 102881547 102881554 102881562

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	mg/kg	ND	0.050	
Ethylbenzene	mg/kg	ND	0.050	
Toluene	mg/kg	ND	0.050	
Xylene (Total)	mg/kg	ND	0.15	
Fluorobenzene (S)	%	105		

LABORATORY CONTROL SAMPLE & LCSD: 102905361 102905379

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
Benzene	mg/kg	5.000	4.904	4.955	98	99	1	
Ethylbenzene	mg/kg	5.000	5.083	5.138	102	103	1	
Toluene	mg/kg	5.000	5.036	5.087	101	102	1	
Xylene (Total)	mg/kg	15	15.25	15.39	102	103	1	
Fluorobenzene (S)					117	119		

Date: 08/09/01

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

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Lab Project Number: 1047062
Client Project ID: WasteManUST-98359XA Super Cycl

QC Batch: 61456
QC Batch Method:
Analysis Method:
Analysis Description: Percent Moisture
Associated Lab Samples: 102881521 102881539 102881547 102881554 102881562

METHOD BLANK: 102891710
Associated Lab Samples: 102881521 102881539 102881547 102881554 102881562

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Percent Moisture	%	0		

SAMPLE DUPLICATE: 102891728

Parameter	Units	102890407 Result	DUP Result	RPD	Footnotes
Percent Moisture	%	18.10	17.60	3	

Date: 08/09/01

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Lab Project Number: 1047062
Client Project ID: WasteManUST-98359XA Super Cycl

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not Detected
NC	Not Calculable
RPD	Relative Percent Difference
(S)	Surrogate

CHAIN OF CUSTODY RECORD

1047062 7708 Line#2

№ 30705

Contact Person Bill Tepley
Phone No. 763/315-6300 Office STS, MPLS (6)
Project No. 98359XA PO No.
Project Name Super Cycle Waste Management

Special Handling Request
- ☐ Rush
- ☐ Verbal
- ☐ Other

RECORD NUMBER 30705 THROUGH 30705
Laboratory PACE
Contact Person Diane Henderson
Phone No.
Results Due

Sample I.D.	Date	Time	Grab	Composite	No. of Containers	Sample Type (Water, soil, air, sludge, etc.)	Preservation Y	Preservation N	Field Data PID/FID Ambient	Field Data PID/FID Sample	Field Data PH	Field Data Special Cond.	Analysis Request	Comments on Sample (Include Major Contaminants)
S1	7/26	11:00	✓		3	S	1	2					BTEX, DRO + Dry Wt.	10288152 1539
S2			✓		3	S	1	2						1547
S3			✓		3	S	1	2						1554
S4			✓		3	S	1	2						1562
S5		↓	✓		3	S	1	2						

Collected by: Gideon Ngb	Date 7/26/01	Time 11:00	Delivery by:	Date	Time
Received by: D.T. Zb / Pace	Date 7/26/01	Time 16:34	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received for lab by:	Date	Time	Relinquished by:	Date	Time

Laboratory Comments Only: Seals Intact Upon Receipt? ☐ Yes ☐ No ☐ N/A

Final Disposition:

Comments (Weather Conditions, Precautions, Hazards):

Per Gideon - MeOH volume used was 25mL.
Diane A / Pace 8/2/01

Distribution: Original and Green - Laboratory Yellow - As needed Pink - Transporter Goldenrod - STS Project File
Instructions to Laboratory: Forward completed original to STS with analytical results. Retain green copy.

6/99cp10k

T=12

STS Consultants Ltd.
Consulting Engineers

STS Consultants, Ltd.

10900 – 73rd Avenue North, Suite 150
Maple Grove, MN 55369-5547
Phone: 763/315-6300
Fax: 763/315-1836

FACSIMILE TRANSMISSION

Date: 8/14/01 **Pages being transmitted, incl. Cover:** 13

To: Tim Jackson **Fax No.:** 651-774-0995

Company Name: Waste Management

From: Bill Tepley, STS **Phone:** 763-315-6335

Re: Soil Sampling Test Results

☐ **Urgent** ☐ **For Signature** ☐ **For Review** ☒ **Please Comment / Reply** ☐ **As Requested**

Message:

Tim,

Here are the test results for the re-sampling work completed on 7/26/01.

Please call me to discuss.

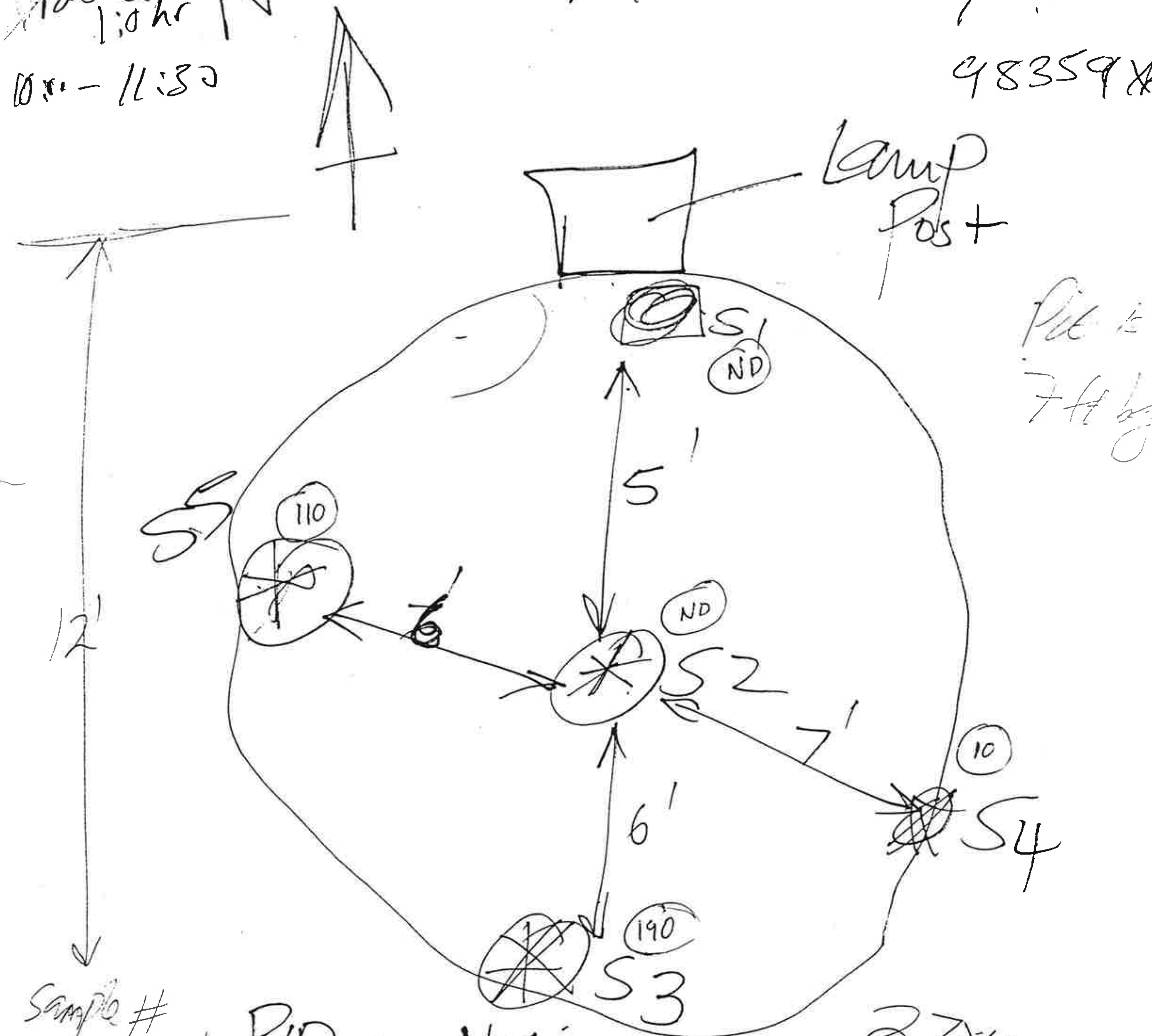
thx

Bill Tepley

Gravel light
10:… – 11:30

7/26/01

2 of 2
98359XA



27X12 Mulg

Sample #	PID	Notes
S1	8	7ft bg, Black silty Sand / Brn staining
S2	9	Brn F-C Sand + Gravel – 5ft bgs
S3	7	Blk Silty Sand – 4 ft bgs
S4	9	Brn Silty sand + Ash – 4 ft bgs
S5	9	Blk Silty Sand – 5 ft bgs

CHAIN OF CUSTODY RECORD

Nº

Contact Person _____
Phone No. _____ Office _____
Project No. _____ PO No. _____
Project Name _____

Special Handling Request

- ☐ Rush
- ☐ Verbal
- ☐ Other

RECORD NUMBER _____ THROUGH _____
Laboratory _____
Contact Person _____
Phone No. _____
Results Due _____

Sample I.D.	Date	Time	Grab	Composite	No. of Containers	Sample Type (Water, soil, air, sludge, etc.)	Preservation		Field Data				Analysis Request	Comments on Sample (Include Major Contaminants)
									PID/FID		PH	Special Cond.		
							Y	N	Ambient	Sample				

Collected by:		Date	Time	Delivery by:	Date	Time
Received by:		Date	Time	Relinquished by:	Date	Time
Received by:		Date	Time	Relinquished by:	Date	Time
Received by:		Date	Time	Relinquished by:	Date	Time
Received for lab by:		Date	Time	Relinquished by:	Date	Time

Laboratory Comments Only: Seals Intact Upon Receipt? ☐ Yes ☐ No ☐ N/A

Final Disposition:	Comments (Weather Conditions, Precautions, Hazards):

Distribution: Original and Green - Laboratory Yellow - As needed Pink - Transporter Goldenrod - STS Project File
Instructions to Laboratory: Forward completed original to STS with analytical results. Retain green copy.

6/99cp10k

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Consulting Engineers

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Minneapolis, MN 55414
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Fax: 612.607.6444

September 04, 2001

Sampled by STS
8/24/01

Mr. Bill Tepley
STS Consultants
10900 73rd Avenue North
Suite 150
Maple Grove, MN 55369

RE: Lab Project Number: 1048047
Client Project ID: 98359XA

Dear Mr. Tepley:

Enclosed are the analytical results for sample(s) received by the laboratory on August 24, 2001. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Diane J. Anderson

Diane J. Anderson
Project Manager

State of Minnesota laboratory 027-053-137

Enclosures

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REPORT OF LABORATORY ANALYSIS

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STS Consultants
10900 73rd Avenue North
Suite 150
Maple Grove, MN 55369

Lab Project Number: 1048047
Client Project ID: 98359XA

Attn: Mr. Bill Tepley
Phone: 763-315-6300

Solid results are reported on a dry weight basis

Lab Sample No: 102946695 Project Sample Number: 1048047-001 Date Collected: 08/24/01 10:00
Client Sample ID: S3B2 (SOUTH SIDE), 10FT BGS Matrix: Soil Date Received: 08/24/01 12:20

Parameters	Results	Units	Report Limit	Analyzed		CAS No.	Ftnote	Reg Limit
Metals								
Percent Moisture	Method:							
Percent Moisture	16.8	%		08/27/01	JB1			
GC Semivolatiles								
WI DRO in Soil	Prep/Method:	TPH DRO WI extracti / TPH DRO Wisconsin						
Diesel Range Organics	ND	mg/kg	9.9	08/30/01 21:59	JMZ			
n-Triacontane	81	%		08/30/01 21:59	JMZ	638-68-6		
Date Extracted				08/29/01				
GC Volatiles								
WI GRO and PVOC, soil	Prep/Method:	TPH GRO/PVOC WI ext / TPH GRO/PVOC WI						
Benzene	ND	mg/kg	0.060	08/28/01 07:11	EKB	71-43-2		
Ethylbenzene	ND	mg/kg	0.060	08/28/01 07:11	EKB	100-41-4		
Toluene	ND	mg/kg	0.060	08/28/01 07:11	EKB	108-88-3		
Xylene (Total)	ND	mg/kg	0.18	08/28/01 07:11	EKB	1330-20-7		
Fluorobenzene (S)	89	%		08/28/01 07:11	EKB	462-06-6		

Lab Sample No: 102946720 Project Sample Number: 1048047-002 Date Collected: 08/24/01 10:50
Client Sample ID: S5B3(WEST SIDE), 12FT BGS Matrix: Soil Date Received: 08/24/01 12:20

Parameters	Results	Units	Report Limit	Analyzed		CAS No.	Ftnote	Reg Limit
Metals								
Percent Moisture	Method:							
Percent Moisture	16.6	%		08/27/01	JB1			

Date: 09/04/01

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Lab Project Number: 1048047
Client Project ID: 98359XA

Lab Sample No: 102946720 Project Sample Number: 1048047-002 Date Collected: 08/24/01 10:50
Client Sample ID: S5B3(WEST SIDE), 12FT BGS Matrix: Soil Date Received: 08/24/01 12:20

Parameters	Results	Units	Report Limit	Analyzed		CAS No.	Ftnote	Reg Limit
GC Semivolatiles								
WI DRO in Soil	Prep/Method: TPH DRO WI extracti / TPH DRO Wisconsin							
Diesel Range Organics	ND	mg/kg	6.2	08/30/01 22:38	JMZ			
n-Triacontane	101	%		08/30/01 22:38	JMZ	638-68-6		
Date Extracted				08/29/01				
GC Volatiles								
WI GRO and PVOC, soil	Prep/Method: TPH GRO/PVOC WI ext / TPH GRO/PVOC WI							
Benzene	ND	mg/kg	0.060	08/28/01 04:41	EKB	71-43-2		
Ethylbenzene	ND	mg/kg	0.060	08/28/01 04:41	EKB	100-41-4		
Toluene	ND	mg/kg	0.060	08/28/01 04:41	EKB	108-88-3		
Xylene (Total)	ND	mg/kg	0.18	08/28/01 04:41	EKB	1330-20-7		
Fluorobenzene (S)	85	%		08/28/01 04:41	EKB	462-06-6		

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Fax: 612.607.6444

Lab Project Number: 1048047
Client Project ID: 98359XA

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
(S)	Surrogate

Date: 09/04/01

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QUALITY CONTROL DATA

Lab Project Number: 1048047
Client Project ID: 98359XA

QC Batch: 62598 Analysis Method: TPH DRO Wisconsin
QC Batch Method: TPH DRO WI extracti Analysis Description: WI DRO in Soil
Associated Lab Samples: 102946696 102946720

METHOD BLANK: 102954013
Associated Lab Samples: 102946696 102946720

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Diesel Range Organics	mg/kg	ND	10.	
n-Triacontane	%	98		

LABORATORY CONTROL SAMPLE: 102954021

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Diesel Range Organics	mg/kg	200	169.8	85	
n-Triacontane				104	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 102954039 102954047

Parameter	Units	102940319 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Diesel Range Organics	mg/kg	2.237	214.20	177.4	75.45	82	75	81	1
n-Triacontane						183	98		2

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QUALITY CONTROL DATA

Lab Project Number: 1048047
Client Project ID: 98359XA

QC Batch: 62493
QC Batch Method: TPH GRO/PVOC WI ext
Analysis Method: TPH GRO/PVOC WI
Analysis Description: WI GRO and PVOC, soil
Associated Lab Samples: 102946696 102946720

METHOD BLANK: 102949534
Associated Lab Samples: 102946696 102946720

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	mg/kg	ND	0.050	
Ethylbenzene	mg/kg	ND	0.050	
Toluene	mg/kg	ND	0.050	
Xylene (Total)	mg/kg	ND	0.15	
Fluorobenzene (S)	%	88		

LABORATORY CONTROL SAMPLE & LCSD: 102949542 102949559

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
Benzene	mg/kg	5.000	4.438	4.178	89	84	6	
Ethylbenzene	mg/kg	5.000	4.715	4.542	94	91	4	
Toluene	mg/kg	5.000	4.275	4.053	86	81	5	
Xylene (Total)	mg/kg	15	13.80	13.15	92	88	5	
Fluorobenzene (S)					86	94		

Date: 09/04/01

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QUALITY CONTROL DATA

Lab Project Number: 1048047
Client Project ID: 98359XA

QC Batch: 62506 Analysis Method:
QC Batch Method: Analysis Description: Percent Moisture
Associated Lab Samples: 102946696 102946720

METHOD BLANK: 102949880
Associated Lab Samples: 102946696 102946720

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Percent Moisture	%	0		

SAMPLE DUPLICATE: 102949898

Parameter	Units	102944709 Result	DUP Result	RPD	Footnotes
Percent Moisture	%	19.90	19.40	3	

Date: 09/04/01

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Lab Project Number: 1048047
Client Project ID: 98359XA

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not Detected
NC	Not Calculable
RPD	Relative Percent Difference
(S)	Surrogate
[1]	The calculated RPD was outside QC acceptance limits.
[2]	The surrogate and/or spike recovery was outside acceptance limits.

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Pace Analytical™
www.pacelabs.com

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Page: of

Required Client Information: **Section A**

Company	
Address	
Phone	Fax

Required Client Information: **Section B**

Report To:	
Copy To:	
Invoice To:	
P.O.	
Project Name:	
Project Number:	

Client Information (Check quote/contract):

Requested Due Date:	*TAT:

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.

Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client **Section C**

Quote Reference:	
Project Manager:	
Project #:	
Profile #:	

Requested Analysis:

Section D **Required** Client Information:

SAMPLE ID

One character per box.
(A–Z, 0–9 / .–)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh: mm a/p)	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Remarks / Lab ID
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS

Additional Comments:

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME

Pace Project No.:

SAMPLE CONDITION

Temp: ____ °C	Received on Ice: Y / N	Sealed Cooler: Y / N	Samples Intact: Y / N	pH ___

SEE REVERSE SIDE FOR INSTRUCTIONS