



Rapid City, South Dakota • Albuquerque, New Mexico
Pierre, South Dakota • Minneapolis, Minnesota

28 September 1995

Cathy Malave
Minnesota Pollution Control Agency
Tanks and Spills Section
520 Lafayette Road North
St. Paul, MN 55155-4194

RECEIVED

OCT 02 1995

**MPCA, HAZARDOUS
WASTE DIVISION**

RE: Excavation Report for LEAK #8699

#8688

Dear Cathy:

The attached Excavation Report Worksheet is for the former Richfield Mitsubishi Site. The release was discovered during the removal of hydraulic floor hoist that occurred during the demolition of the building.

The Excavation Report includes the analytical results from the hoist removals, samples collected from the bottom and side walls of the excavation, and soil and groundwater samples that were collected in conjunction with a previous investigation near the Site.

Based on your verbal approval, the seven cubic yards of petroleum contaminated soil has been thin spread on-Site.

If you have any additional question concerning this leak site, please feel free to call me at 486-9771.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Alan D. Gorski'.

Alan D. Gorski

RECEIVED
MAY 15 1960
U.S. DEPARTMENT OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION

RECEIVED

MAY 15 1960
U.S. DEPARTMENT OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION

RECEIVED

OCT 02 1993

**MPCA, HAZARDOUS
WASTE DIVISION**

EXCAVATION REPORT WORKSHEET FOR PETROLEUM RELEASE SITES

Fact Sheet #4

Minnesota Pollution Control Agency

LUST Cleanup Program

April 1993

Complete the information below and submit to the Minnesota Pollution Control Agency (MPCA) Tanks and Spills Section to document excavation and treatment of petroleum contaminated soil. Conduct excavations in accordance with "Excavation of Petroleum Contaminated Soil" (fact sheet #13). Please attach any available preliminary site investigation reports to this excavation report.

Attach additional pages if necessary. Please type or print clearly.

The excavation reporting deadline is 10 months from the date of receipt of the standard letter. A shorter deadline may be established by MPCA staff for high priority sites.

I. BACKGROUND

A. Site: **Former Richfield Mitsubishi**
Street: **920 West 78th Street**

City, Zip: **Richfield**

County: **Hennepin**

MPCA Site ID#: **LEAK00008688**

B. Tank Owner/Operator: **CSM Investors, Inc.**
Mailing Address: **2575 University Avenue**
Suite 150

City, Zip: **St. Paul, MN 55114**

Telephone: **(612) 646-1717**

C. Excavating Contractor: **Griffin Service**
Station Equipment, Inc.

Contact: **Denny Habisch**

Telephone: **(612) 780-6332**

Tank Contractor Certification

Number: **0178**

D. Consultant: **RE/SPEC Inc.**

Contact: **Kevin Peirson**

Street/Box: **6 Pine Tree Drive, Suite 280**

City, Zip: **St. Paul, MN 55112**

Telephone: **(612) 486-9771**

E. Others on-site during site work (e.g., fire marshal, local officials, MPCA staff, etc.):
Richfield Fire Department

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.

RECEIVED

MAIL DIVISION
MAY 19 1954

TO: SAC, NEW YORK
FROM: SAC, PHOENIX
SUBJECT: [Illegible]

[Illegible typed text]

[Illegible typed text]

[Illegible typed text]

[Illegible typed text]

[Illegible typed text]

II. DATES

A. Date release reported to MPCA: 08/16/95

B. Dates site work performed:

Work Performed	Date
Removed hydraulic floor hoists and stockpiled soil	8/16/95 & 8/17/95

III. RELEASE INFORMATION

A. Provide the following information for all removed tanks.

The information provided below pertains to hydraulic hoist cylinders

Hoists: Ten hoist cylinders were removed from the building. Three of the hoists were double cylinder hoists and four were single cylinder hoists. The leak was discovered near hoists #1 and #2. The approximate quantity of the leak is unknown. The suspected cause of the release is a faulty or leaking connection between the hydraulic oil reservoir tank and the hoist cylinder. The Hoist were installed in approximately 1966.

B. Provide the following information for all existing tanks.

Tank No.	Capacity	Contents	Type	Age
----------	----------	----------	------	-----

NOT APPLICABLE

C. If the release as associated with the lines or dispensers, briefly describe the problem:

Impacted soil was only encountered near the hydraulic oil reservoir tank. The reservoir tank appeared to be in good condition, yet there was staining on the side of the tank, indicating the line from the tank to the hoist may have been leaking.

D. If the release was a surface spill, briefly describe the problem:

Not Applicable

IV. EXCAVATION

A. Dimensions of excavation: ~11' x 9' x 9'

B. Original tank backfill material (sand, gravel, etc.): Sand

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

D. Quantity of contaminated soil removed (cubic yards): ~7 cubic yards

[Note: If more than 150 cubic yards removed, please attach copy of written approval from MPCA.]

E. Was groundwater encountered or was there evidence of a seasonally high groundwater table?
At what depth?

No

F. If a soil boring was required (see fact sheet #13, "Excavation of Petroleum Contaminated Soil," Part VI Additional Investigation) describe the soil screening and analytical results. Attach the boring logs and laboratory results to this report.

Not Applicable

G. If no soil boring was required, explain.

Field screening results (headspace analyses) indicated that all sidewall and bottom samples of the soil remaining in the excavation were below the action levels set by the MPCA.

H. If groundwater was encountered or if a soil boring was conducted, was there evidence of groundwater contamination? Specify, e.g., free product (specify thickness, product sheen, groundwater in contact with petroleum contaminated soil, water analytical results, etc.

[NOTE: If free product was observed, contact MPCA staff immediately as outlined in "Petroleum Tank Release Reports" (fact sheet #3). Also consult fact sheet #18, "Free Product: Evaluation and Recovery"].

Groundwater was not encountered.

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

No

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

None encountered

V. SAMPLING

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

The MPCA Jar Headspace Method was implemented. Soil samples were screened using a Photoionization Detector equipped with a 10.6 eV lamp and calibrated for reading in parts per million volume/volume of benzene. An eight ounce glass jar was half filled with soil and immediately covered with one layer of aluminum foil. The jars were shook for 15 seconds, then the samples were stored for 10 minutes in an atmosphere of at least 32° F. After headspace development (a minimum of 10 minutes) the jar was shook for another 15 seconds. Next, the foil seal was punctured with the sample probe. The highest meter response in a time period of two to five seconds after insertion was then recorded for each jar sample.

B. List soil vapor headspace analysis results. Indicate sampling locations using sample codes (with sampling depths in parentheses), e.g. R-1 (2 feet), R-2 (10 feet), etc. "R" stand 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. 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"). Be sure the sample codes correspond with the site map required in part VI, below.

**TABLE 1
PID Results
Hoists 1 & 2 Excavation**

Sample Code	Soil Type	Reading ppm	Sample Code	Soil Type	Reading ppm
S-1 (8')	Sand	0.0	B-1 (9')	Sand	0.0
S-2 (9')	Sand	0.0	R-3 (8')	Sand	49
R-1A (6')	Sand	52	R-4 (7')	Sand	59
S-3B (9')	Sand	1.2			
R-2A (6')	Sand	14			
S-4B (10')	Sand	0.0			

TABLE 2
PID & Lab Results
Hoists 3 - 9

Sample Code	Soil Type	PID ppm	DRO ppm
Hoist 3 (9')	Sand	0.0	200
Hoist 4 & 5 (9')	Sand	0.0	100
Hoist 6 & 7 (6')	Sand	0.0	<10
Hoist 8 (9')	Sand	0.0	<10
Hoist 9 (6')	Sand	0.0	370
Hoist 10 (9')	Sand	0.0	<10

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

Soil samples were collected in approved laboratory prepared containers and transported to the laboratory in an ice filled cooler. Upon collection of samples, a chain of custody log was initiated.

- D. List below the soil sample analytical results from bottom and sidewall samples (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), etc. Be sure the sample codes correspond to the site map required in part VI. Do not include analyses from the stockpiled soils.

TABLE 3
Soil Analytical
Hoists 1 & 2

Sample Code	DRO ppm	Benzene ppm	Ethyl-benzene ppm	MTBE ppm	Toluene ppm	Xylene ppm
S-1(9')	15	<0.06	<0.06	<0.6	<0.06	<0.06
S-2(9')	<10	<0.05	<0.05	<0.5	<0.05	<0.05
S-3(9')	<10	<0.06	<0.06	<0.6	<0.06	<0.06
S-4(9')	<10	<0.06	<0.06	<0.6	<0.06	<0.06
B-1(9')	17	<0.06	<0.06	<0.6	<0.06	<0.06

NOTE: ATTACH COPIES OF LABORATORY REPORTS AND CHAIN OF CUSTODY FORMS

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, lines, 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 soil borings (e.g. SB-1). Also, attach all boring logs.
 - f. North arrow, bar scale and map legend.

VII. SUMMARY

Briefly summarize evidence indicating whether additional investigation is necessary at the site, as discussed in part VI of "Excavation of Petroleum Contaminated Soil" (fact sheet #13). If no further action is recommended, the MPCA staff will review this report following notification of soil treatment.

Seven hydraulic hoists were removed from the former Richfield Mitsubishi property. Three of the hoists were double cylinder hoists and four were single cylinder hoists. During the removal of hoist cylinders 1 & 2, visual observations and PID results indicated the presence of hydraulic oil impacted soil. The presence of petroleum impacted soil resulted in the excavation of approximately seven cubic yards of soil, which was stock-piled on-site. Laboratory confirmation samples collected from the bottom and sidewalls of the excavation identified a maximum concentration of 15 ppm of DRO along the north sidewall and 17 ppm of DRO in the bottom sample at 9 feet. No BTEX compounds or DRO were present in the remaining side wall samples.

Of the remaining six hydraulic hoists removed, two were double cylinder hoists (hoists 4-5 and hoists 6-7) and four were single cylinder hoist (hoists 3, 8, 9 and 10). Visual observations and PID readings did not identify petroleum contamination under hoists cylinders 3-10. Laboratory confirmation samples; however, identified DRO compounds under hoist 3 (200 ppm), hoist 4-5 (100 ppm) and hoist 9 (370 ppm). Although DRO contaminated soil is present, petroleum impacts appear to limited to only soil immediately surrounding the former source.

Previous subsurface investigation activities have been conducted at the Site in conjunction with a previous petroleum release at the Site and an off-site tetrachloroethene release. Analytical results from four groundwater monitoring wells and four Geoprobe borings have been compiled and presented in the table below (Table 4). The sample locations are presented in Figure 3.

Results from the previous sampling indicated that no BTEX or DRO compounds were present at any of the groundwater sample locations, which included the downgradient monitoring well (MW10). Based on the field screening and visual observations conducted during the hoist removals and on groundwater analytical data collected from sample locations surrounding the former Richfield Mitsubishi facility, RE/SPEC believes that any remaining soil contamination does not pose a threat to the groundwater resources below the Site. RE/SPEC; therefore, recommends no further action be taken at this Site and that leak number 8688 be closed.

Table 4
Groundwater analytical results from previous site work
Richfield Mitsubishi

Analyte	Benzene	Ethylbenzene	Toluene	Xylene	DRO
GB12	<1.0	<1.0	<1.0	<1.0	NA
GB57	<1.0	<1.0	<1.0	<1.0	NA
GB58	<1.0	<1.0	<1.0	<1.0	NA
TCT2	<0.2	<0.2	<0.5	<0.5	NA
TCT3	<0.2	<0.2	<0.5	<0.5	NA
MW10	<0.2	0.2	<0.5	<0.5	<110
MW11	<0.2	0.2	<0.5	<0.5	<130

Notes:

NA- Not analyzed for specified compound(s)

All analytes reported in parts per billion (ppb) or micrograms per liter (µg/L)

GB12, 57 & 58 are Geoprobe water samples

TCT2 & 3 are groundwater monitoring wells

VIII. SOIL TREATMENT INFORMATION

A. Soil Treatment method used (thermal, land application, other). If you choose "other" specify treatment method: Thin spread on-site

B. Location of treatment site/facility: Former Richfield Mitsubishi Dealership, 920 West 78th Street, Richfield, MN. SE 1/4 of Section 33, T.28N., R.24W., Hennepin County.

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):

Cathy Malave granted verbal approval for thin spreading on September 6, 1995.

D. Identify the location of stockpiled contaminated soil:

Stockpile location is indicated on the attached Figure 2

IX. CONSULTANT (OR OTHER) PREPARING THIS REPORT

Company Name: RE/SPEC Inc.
Street/Box: 6 Pine Tree Drive, Suite 280
City, Zip: St. Paul, Minnesota 55112
Telephone: (612) 486-9771
Contact: Alan Gorski

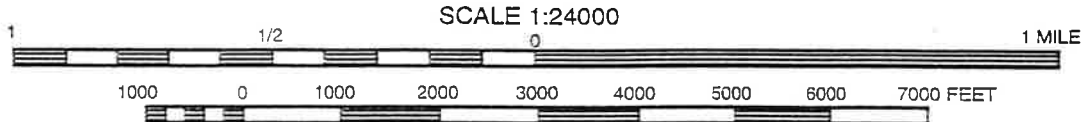
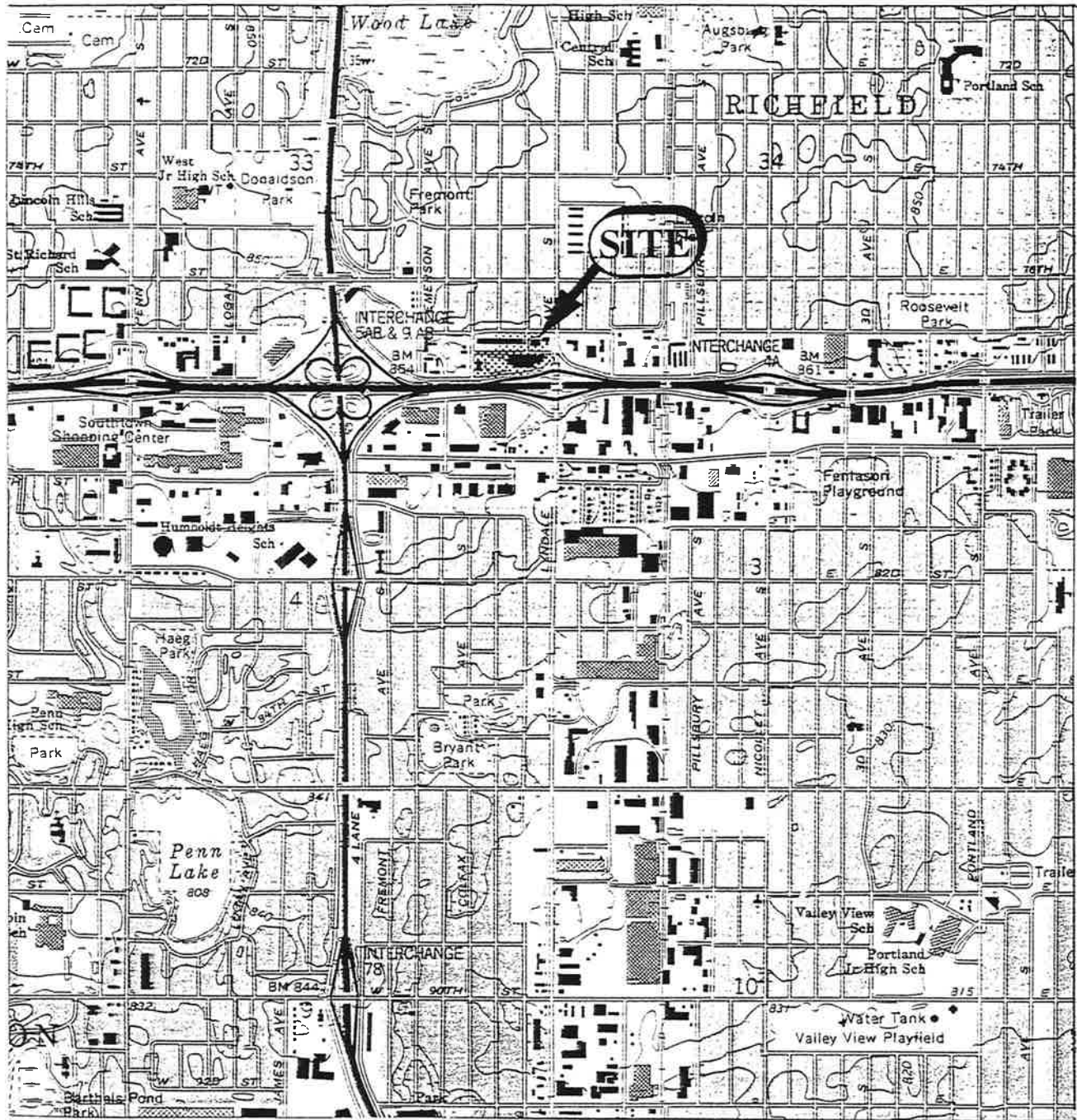
Signature: 

Date: 9-28-95

If additional investigation is not required at the site, please mail this form and all necessary attachments to:

Cathy Malave
Minnesota Pollution Control Agency
Hazardous Waste Division
Tanks and Spills Section
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

If additional investigation is required at the site, include this form as an appendix to the Remedial Investigation/Corrective Action Design report. **Excavation reports indicating a remedial investigation (RI) is necessary will not be reviewed by MPCA staff until the RI has been completed.**



CONTOUR INTERVAL 100 FEET
 NATIONAL GEODETIC VERTICAL DATUM OF 1929



FIGURE 1
Site Location Map
 Phase Two of the Richfield Redevelopment Project
 Richfield, MN
 RE/SPEC #302-049.1

Date: Apr. 21, 1995

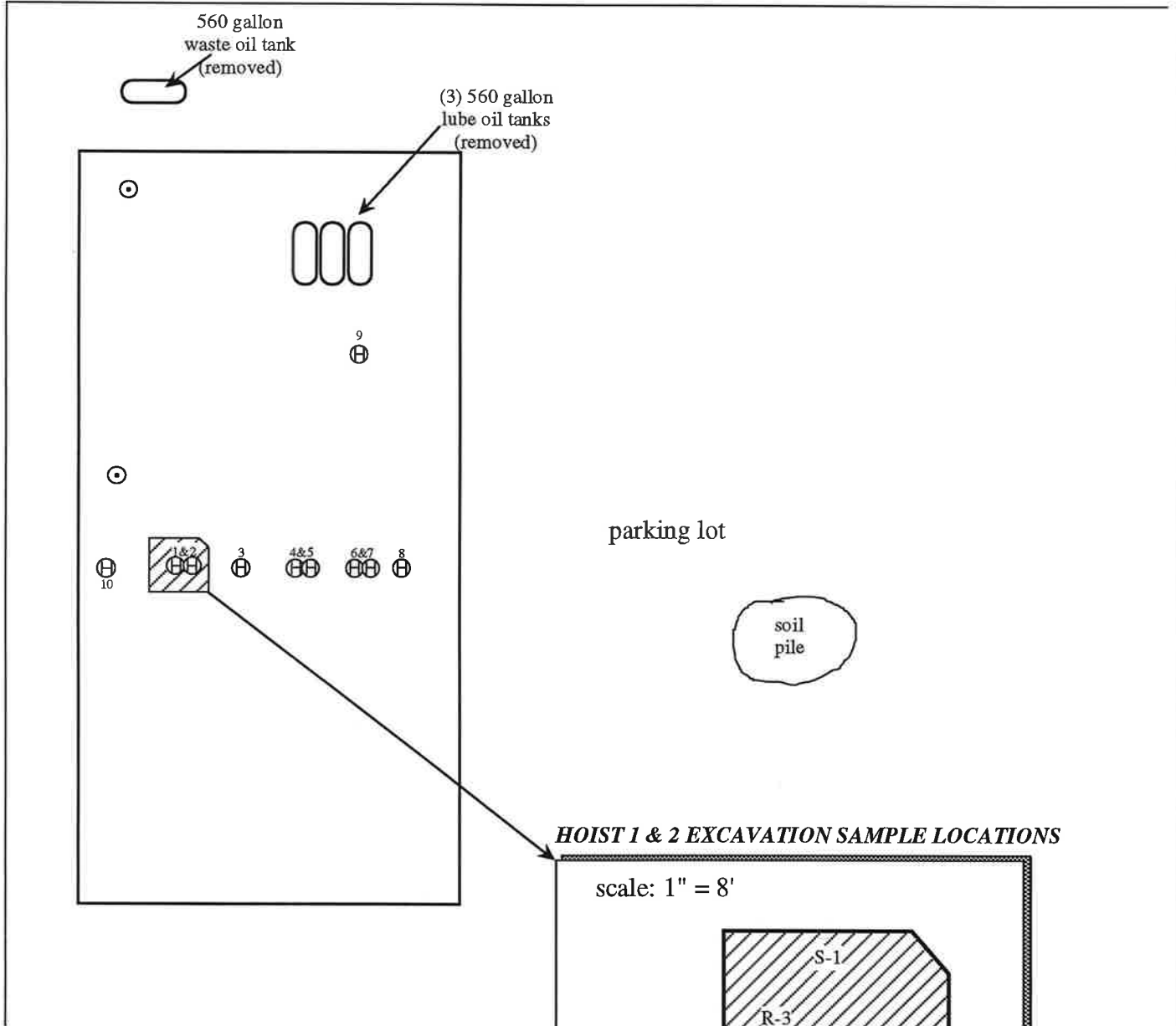
Scale As Shown

Prepared By: MPR

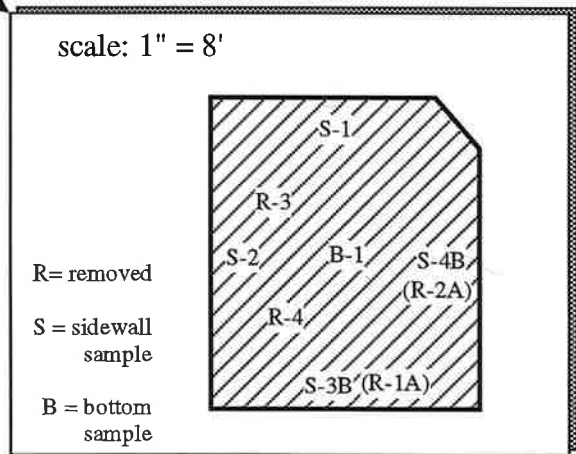
Approved By: *[Signature]*

West 77 1/2 Street

Colfax Avenue



HOIST 1 & 2 EXCAVATION SAMPLE LOCATIONS



KEY

- ⊙ flammable waste trap
- ⊕ hoist



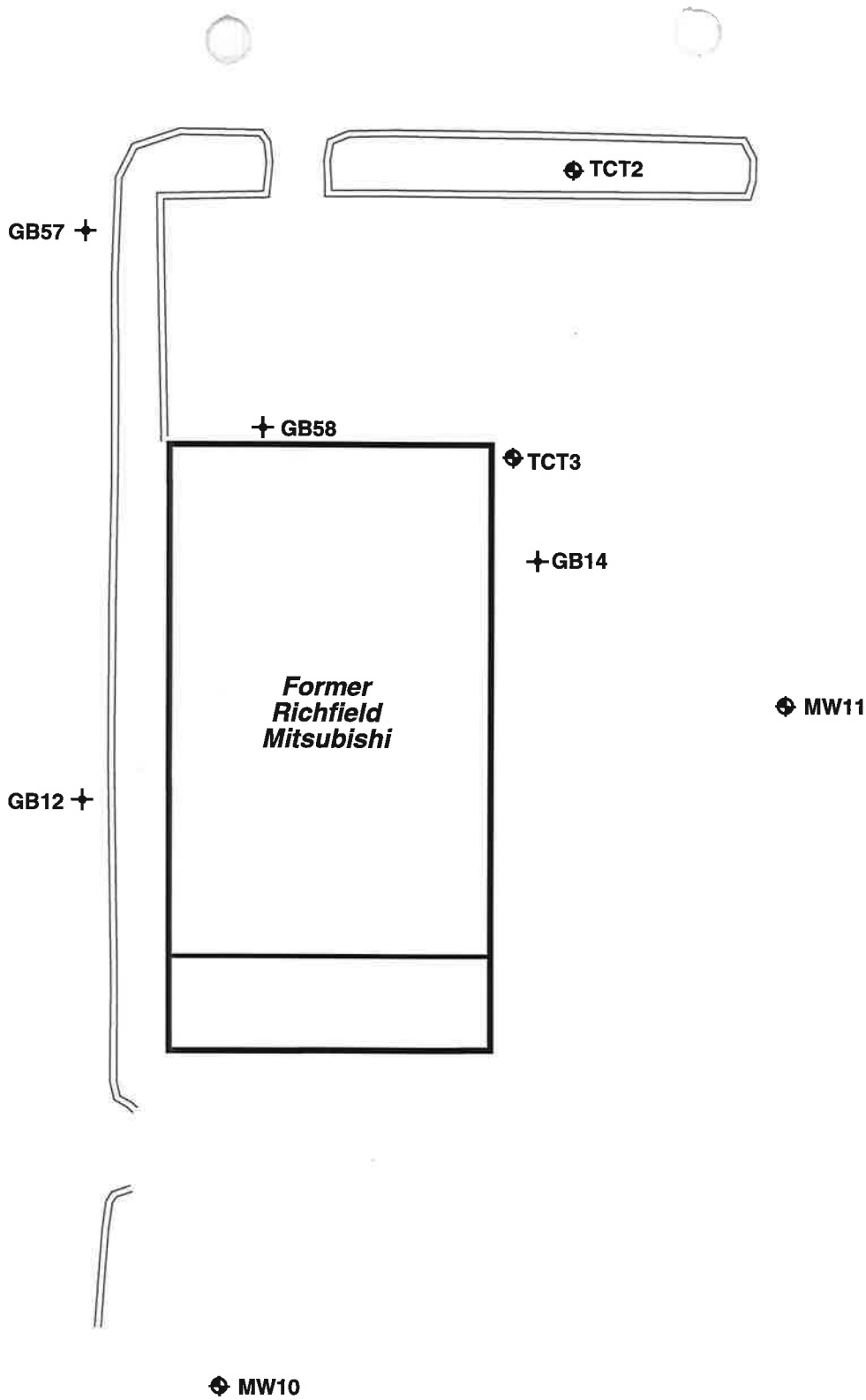
FIGURE 2
Site Diagram
Richfield Mitsubishi
Bloomington, Minnesota
 RE/SPEC #302-49.5

Date: August 22, 1995

Prepared By: SLG

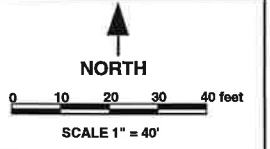
Scale: 1" = 30'

Approved By: ADG



Date: Sept. 25, 1995	Prepared By: MPR
Scale: As Indicated	Reviewed By:

FIGURE 3
Previous GW Sampling Locations
Richfield Mitsubishi
Bloomington, Minnesota
 RE/SPEC #302-049.5





SERCO Laboratories

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

LABORATORY ANALYSIS REPORT NO: 53334
09/05/95

Page 2 of 3

SERCO SAMPLE NO:	118715	118725	118735	118745
SAMPLE DESCRIPTION:	East 1 & 2	South 1 & 2	West 1 & 2	Hoist 4 & 5

ANALYSIS:

Diesel Range Organics C10-C28, dry weight, mg/kg	<10	<10	<10	100
Analytical Method for MOD DRO	MOD DRO	MOD DRO	MOD DRO	MOD DRO
Date of Extraction for MOD DRO	08/18/95	08/18/95	08/18/95	08/18/95
Date of Analysis for MOD DRO	08/25/95	08/25/95	08/25/95	08/25/95
Total Solids, percent	92.3	92.1	95.6	86.9
Benzene, dry weight, mg/kg	<0.05	<0.06	<0.06	-
Ethylbenzene, dry weight, mg/kg	<0.05	<0.06	<0.06	-
Methyl tertiary butyl ether, dry weight, mg/kg	<0.5	<0.6	<0.6	-
Toluene, dry weight, mg/kg	<0.05	<0.06	<0.06	-
Total Xylene, dry weight, mg/kg	<0.05	<0.06	<0.06	-
Analytical Method for BETX/MTBE	8020	8020	8020	-
Date of analysis for BETX/MTBE	08/21/95	08/21/95	08/21/95	-

SERCO SAMPLE NO:	118755	118765	118775	119445
SAMPLE DESCRIPTION:	Hoist 6 & 7	Hoist 8	Waste Oil Tank	Soil Pile

ANALYSIS:

Diesel Range Organics C10-C28, dry weight, mg/kg	<10	<10	<10	200
Analytical Method for MOD DRO	MOD DRO	MOD DRO	MOD DRO	MOD DRO
Date of Extraction for MOD DRO	08/18/95	08/18/95	08/18/95	08/21/95
Date of Analysis for MOD DRO	08/25/95	08/25/95	08/25/95	08/31/95
Total Solids, percent	94.0	97.9	96.0	94.0
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

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





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LABORATORY ANALYSIS REPORT NO: 53334
09/05/95

Page 3 of 3

SERCO SAMPLE NO:	118755	118765	118775	119445
SAMPLE DESCRIPTION:	Hoist 6 & 7	Hoist 8	Waste Oil Tank	Soil Pile

ANALYSIS:

Date of analysis for BETX/MTBE	-	-	-	08/23/95
--------------------------------	---	---	---	----------

SERCO SAMPLE NO:	119455
SAMPLE DESCRIPTION:	Methanol Trip Blank

ANALYSIS:

Analytical Method for BETX/MTBE	8020
Date of analysis for BETX/MTBE	08/22/95
Benzene, ug/L	<1.0
Ethylbenzene, ug/L	<1.0
Methyl tertiary butyl ether, ug/L	<10
Toluene, ug/L	<1.0
Total Xylene, ug/L	<1.0

Sample #119445 was received 08/21/95.

All analyses were performed using EPA or other accepted methodologies. Samples that may be of an environmentally hazardous nature may be returned to you. Other samples will be stored for 30 days from the date of this report, then disposed of by SERCO Laboratories. Please contact me if other arrangements are needed. This report may not be reproduced, except in its entirety, without prior written approval from SERCO Laboratories.

Report submitted by,

Carol A. Davy
Project Manager

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





SERCO Laboratories

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

LABORATORY ANALYSIS REPORT NO: 53334
09/05/95

Page 1 of 3

RE/SPEC, Inc.
6 Pine Tree Drive
Suite 280
Arden Hills, MN 55112

DATE COLLECTED: 08/17/95
DATE RECEIVED: 08/18/95
COLLECTED BY : CLIENT
DELIVERED BY : CLIENT
SAMPLE TYPE : SOIL

Attn: Alan Gorski

CLIENT'S ID: 302-049.5

SERCO SAMPLE NO:	118675	118685	118695	118705
SAMPLE DESCRIPTION:	Hoist 9	Hoist 3	Bottom 1 & 2	North 1 & 2

ANALYSIS:

	370	200	17	15
Diesel Range Organics C10-C28, dry weight, mg/kg				
Analytical Method for MOD DRO	MOD DRO	MOD DRO	MOD DRO	MOD DRO
Date of Extraction for MOD DRO	08/18/95	08/18/95	08/18/95	08/18/95
Date of Analysis for MOD DRO	08/25/95	08/30/95	08/30/95	08/30/95
Total Solids, percent	98.0	94.2	94.1	94.2
Benzene, dry weight, mg/kg	-	-	<0.06	<0.06
Ethylbenzene, dry weight, mg/kg	-	-	<0.06	<0.06
Methyl tertiary butyl ether, dry weight, mg/kg	-	-	<0.6	<0.6
Toluene, dry weight, mg/kg	-	-	<0.06	<0.06
Total Xylene, dry weight, mg/kg	-	-	<0.06	<0.06
Analytical Method for BETX/MTBE	-	-	8020	8020
Date of analysis for BETX/MTBE	-	-	08/22/95	08/22/95

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



CHAIN OF CUSTODY

Client: RE/SPEC Project: 302-049.5
 Alt#: _____ NO Number: _____
 Address: _____ Sampler: ALAN D GORSKI
 Phone: _____ Fax: _____
 Sampling Address: _____



SERCO Laboratories
 1931 W. County Rd C-2, St. Paul, MN 55113
 Phone: (612) 630-7173 Fax: (612) 630-7170

Laboratory Use Only

Temperature of _____ °C

Received on: ICE BIE ICE NO ICE (circle one)

Sample ID	Date/Time Collected	Sample Type	Sample Location Description	# of Can.	Prem. valve	Analysis Requested	Sample Number	Sample Container	Other Comments
8171115		Gnd	Hoist 9	3	-	DRO / dr. wt.			
8171130			Hoist 3	3	-	DRO / dr. wt.			
8171145			Booth - 1 & 2	5	MeOH	DRO / BTEX / dr. wt.			
8171150			North 1 & 2	5	MeOH	PRO / BTEX / dr. wt.			
8171155			East 1 & 2	5	MeOH	PRO / BTEX / dr. wt.			
8171157			South 1 & 2	5	MeOH	DRO / BTEX / dr. wt.			
8171159			West 1 & 2	5	MeOH	PRO / BTEX / dr. wt.			
8171200			Hoist 4 & 5	3	-	DRO / dr. wt.			
8171205			Hoist 6 & 7	3	-	DRO / dr. wt.			
8171220			Hoist 8	3	-	PRO / dr. wt.			
8171400			waste oil tank	3	-	PRO / dr. wt.			

Retrieved by: (Signature & Company)	Date / Time	Received by: (Signature & Company)	Date / Time	REMARKS:
<i>Alan Gorski / RE/SPEC</i>	8/18/95 9:37			

8/18/95 9:37am

CHAIN OF CUSTODY



SERC Laboratory
 1031 W. County Rd C-2, St. Paul, MN 55113
 Phone: (612) 630-7173 Fax: (612) 630-7170

Laboratory Use Only

Temperature of _____ °C
 Received on: 8/18/00 BLUE I/OE ID I/OE (circle one) Other Comments

Sample ID	Date/Time Collected	Sample Type	Sample Location Description	# of Cont.	Precon- vative	Analysis Required
821900		Grab	Soil Pile	5	MeOH	Prof/BTEX 10% wt.

Client: RE/Spec Project: Com Rickfield 302- D49.5
 Attn: Wendy Dwyer/Al Gorsk ID Number: _____
 Address: _____ Sampler: ALAN D GORSKI
 Phone: _____ Fax: _____ Sampling Address: _____

Relinquished by: (Signature & Company)	Date / Time	Received by: (Signature & Company)	Date / Time
<i>[Signature]</i>	8-21 10:00	<i>[Signature]</i> SERCO	8/18/00 10:00am
Relinquished by: (Signature & Company)	Date / Time	Received by: (Signature & Company)	Date / Time
Relinquished by: (Signature & Company)	Date / Time	Received by: (Signature & Company)	Date / Time
REMARKS: Samples Should be included with same Report for sample dropped at on 8-18 for. Com Rickfield 302-049.5			



SERCO Laboratories

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

LABORATORY ANALYSIS REPORT NO: 53643
09/21/95

PAGE 1 of 2

RE/SPEC, Inc.
6 Pine Tree Drive
Suite 280
Arden Hills, MN 55112

Attn: Alan Gorski

DATE COLLECTED: 09/07/95
DATE RECEIVED: 09/07/95
COLLECTED BY : CLIENT
DELIVERED BY : CLIENT
SAMPLE TYPE : SOIL

CLIENT'S ID: CSM-Richfield Mitsubishi

SERCO SAMPLE NO: 130315

SAMPLE DESCRIPTION: Hoist
#10

ANALYSIS:

Diesel Range Organics C10-C28, dry weight, mg/kg	<10
Analytical Method for MOD DRO	MOD DRO
Date of Extraction for MOD DRO	09/08/95
Date of Analysis for MOD DRO	09/19/95
Total Solids, percent	98.1

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





SERCO Laboratories

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

LABORATORY ANALYSIS REPORT NO: 53643
09/21/95

PAGE 2 of 2

The analytical results in this report pertain only to the items tested. All analyses were performed using EPA or state approved methodologies. Samples that may be of an environmentally hazardous nature may be returned to you. Other samples will be stored for 30 days from the date of this report, then disposed of by SERCO Laboratories. Please contact me if other arrangements are needed. This report may not be reproduced, except in its entirety, without prior written approval from SERCO Laboratories.

Report submitted by,

Carol A. Davy
Project Manager





SERCO Laboratory
1031 W. County Rd C-2, St. Paul, MN 55113.
Phone: (612) 636-7173 Fax: (612) 636-7170

Laboratory Use Only

Temperature of _____ °C

Sample No.	Sample Material	Sample Condition	8 IE IE	10 IE	Other Comments

CHAIN OF CUSTODY

Client: RE/SPEC Project: Edin RICHFIELD - Richfield Police Dept.
 Agent: AL GORSKI PO Number: _____
 Address: _____ Sampler: AL GORSKI
 Street: _____ Sampling Address: _____
 Phone: _____ Fax: _____

Sample ID	Date/Time Collected	Boyle/Bite	Sample Inventory Description	# of Dist.	Precipitate	Analyte Required
550405		405	Hoist # 710	3		DRO

Retrieved by: (Signature & Company)	Date / Time	Received by: (Signature & Company)	Date / Time
<i>W. J. L. L.</i>	9-7-95 2:15	<i>Tommaso Sorcio</i>	9/7/95 2:15pm

