

Golder Associates Ltd.

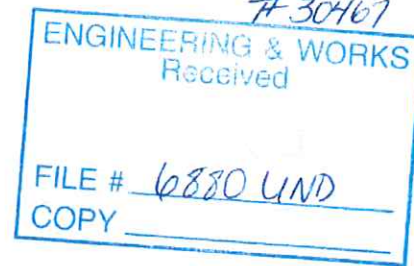
145 1st Avenue North, Suite 200
Saskatoon, Saskatchewan, Canada S7K 1W6
Telephone (306) 665-7989
Fax (306) 665-3342



January 27, 2003

022-6762

Agrifoods International Cooperative Ltd.
122 Wakooma Street
P.O. Box 1267
Saskatoon, Saskatchewan
S7K 3P1



Attention: Mr. Myron Glatt

**RE: CLOSURE REPORT ON UNDERGROUND STORAGE TANK REMOVAL
445 WINNIPEG STREET
REGINA, SASKATCHEWAN**

Dear Mr. Glatt:

This letter report provides environmental information related to the removal of four underground storage tanks (USTs) at 445 Winnipeg Street, Regina, Saskatchewan ("the Site", Figure 1). Golder Associates Ltd. (Golder Associates) was retained by Agrifoods International Cooperative Ltd. (Agrifoods) to monitor the removal of the four USTs. Golder Associates retained Petrocare Construction Services Inc. (Petrocare) to carry out the UST removals. The work described in this letter was carried out on behalf of Agrifoods in response to notification by the City of Regina Fire Department in a letter dated April 30, 2002 that the four USTs were to be removed on or before August 15, 2002.

1.0 BACKGROUND

In 2002, on behalf of Agrifoods, Golder Associates reviewed available information regarding unused USTs at 445 Winnipeg Street. The information review indicated that the four USTs were present at the Site. Specifically, the USTs to be removed from the Site consisted of:

- one 23,000-litre (5000-Imperial gallon) diesel UST;
- one 23,000-litre gasoline UST;



- one 14,000-litre (3000-Imperial gallon) diesel UST; and
- one 14,000-litre heating oil UST.

The heating oil UST was formerly located in the northern portion of the Site near the main building. The remaining three USTs and their associated pump island were formerly located together in the southeastern portion of the Site. The locations of the USTs with respect to existing buildings are illustrated in Figure 2.

Application to Saskatchewan Environment (SE) was made in a letter from Golder Associates Ltd. to SE dated July 17, 2002 entitled "*Remedial Action Plan for the Removal of Four Underground Storage Tanks at 445 Winnipeg Street, Regina Saskatchewan*". Approval to decommission storage facility MA-24, Project # 3789 was subsequently granted by SE on July 18, 2002.

2.0 SITE WORKS

2.1 Excavation, Underground Storage Tank Removal, and Backfilling

Personnel from Golder Associates Ltd. (Golder Associates) were on site throughout the UST removal, soil excavation, and most of the excavation backfilling. Golder Associates conducted the following activities:

- obtained soil samples from the walls and base of the excavation;
- conducted field screening of soil samples for combustible vapours;
- arranged for laboratory testing of soil samples;
- directed the contractor with respect to the extent of the excavation; and,
- documented the activities of the contractor and other personnel on site through the UST removal and soil excavation programs.

The site work involved the removal of gasoline and diesel USTs, the pump island, and heating oil tank and backfilling the excavations. Tank excavations, tank disposal, and backfilling were conducted by Petrocare Construction Services (Petrocare) of Saskatoon, Saskatchewan using a rubber-tired backhoe. The tank excavations commenced on August 13, 2002 and were completed on August 14, 2002.

Prior to removal, each of the three USTs contained approximately 0.1 m of liquid hydrocarbon product. The liquid hydrocarbon product was removed and disposed appropriately from the tanks by CEDA Environmental Services. Once removed, the three USTs located in the southern portion of the Site were inspected and photographed. No serial numbers were visible on the tanks. The tanks appeared to be in good condition and free from any visible holes or perforations. The pump island and all associated piping were also removed.

The final limits of the tank nest excavation were approximately 4-m deep, 14-m wide, and 16-m long. The soil on the excavation side walls and base consisted predominantly of sand fill material. Inspection of the soil on the excavation side walls and base showed grey staining and a strong hydrocarbon odour.

Prior to excavation of the heating oil UST, approximately 1 m of heating oil and 0.2 m of water measured in the tank. The oil/water mixture was removed from the UST and appropriately disposed of by CEDA Environmental Services. Upon excavation and removal the UST was inspected. Perforations were observed at the corners of each end of the UST (Photograph 1 and 2). Additionally, small holes in the bottom of the UST were observed. A concrete pad was noted at the base of the heating oil UST excavation however was not removed.

Soil conditions surrounding the UST consisted of fine sand, with grey-black staining along the west wall of the excavation nearest to the main building.

The tanks were removed from the Site by Petrocare and destroyed. A declaration by Petrocare of the destruction of the USTs is attached.

Following removal of the USTs, and soil sampling each of the excavations, the excavations were backfilled with the any stockpiled soil. The excavated areas remaining were left open pending further assessment of the Site. The excavations were backfilled level with ground surface with clean granular fill materials in December 2002.

2.2 Soil Sampling

Soil samples were obtained during the excavation USTs to assist in determining the magnitude of potential hydrocarbon impacts. Soil samples collected during the removal of the USTs were assessed in the field based on field observations of odours and staining.

One soil sample was collected at the base of each of the excavations subsequent to the removal and stockpiling of overburden soils and the removal of the USTs. The samples were designated 3T (three UST nest excavation) and HO (heating oil UST excavation).

Soil samples were packed tightly into a laboratory-supplied sample jar and stored in cold storage until selected samples were submitted to Enviro-Test Laboratories in Saskatoon, Saskatchewan, for analysis of BTEX, CCME, PHC, Fractions (F₁-F₄) and lead concentrations.

2.3 Soil Sample Results

The principal document for the evaluation of the environmental quality of petroleum hydrocarbon impacted soil and groundwater in Saskatchewan is the *Saskatchewan Environment Resource and*

Management (SERM) Risk Based Corrective Actions for Petroleum Contaminated Sites, November 1995. The results of the soil chemical analyses should be compared with the SERM criteria for a Commercial/Industrial future land use. Canadian Council of Ministers of the Environment (CCME) Canada-Wide Standard for Petroleum Hydrocarbons (PHC) for soils for a commercial property with coarse grained soils is recommended for total petroleum hydrocarbon concentrations in excess of the SE commercial/industrial criteria.

The soil sample designated 3T, collected from the three UST nest excavation contained F₁ concentrations (2,200 mg/kg) in excess of the CCME Canada Wide Standards for PHC in Soils for F₁ (1000 mg/kg). The soil sample from the UST-nest backfill also contained concentrations of benzene (7.6 mg/kg), toluene (45 mg/kg), and xylenes (110 mg/kg) in excess of the SE Risk Based Corrective Actions for Petroleum Contaminated Sites, November 1995 criteria for a commercial/industrial future land use.

1995
COM/IND
CRITERIA
B 5.0
T 30
E 50
X 50

The soil sample designated HO, collected from the heating oil tank excavation contained F₂ concentrations (4,000 mg/kg) in excess of CCME guidelines. A summary of the results of chemical analyses for hydrocarbons performed on the collected soil samples is provided in Table 1.

TPH = 1000 ppm

3.0 SUMMARY

The four USTs and associated piping indicated in the April 30, 2002 letter from the City of Regina Fire Department have been removed from the Site. The USTs were destroyed by Petrocare.

The chemical analyses of the soil samples collected from the base of the three UST nest excavation and from the base of the heating oil UST excavation indicate concentrations in excess of applicable guideline criteria. No potentially impacted soil was removed from the Site. The excavations were backfilled with clean fill.

Additional environmental investigations at the Site are on-going.

4.0 LIMITATIONS AND USE OF REPORT

This closure report was prepared for the exclusive use of Agrifoods International Cooperative Ltd. The report is based on data and information collected during the UST removals and soil excavations at 445 Winnipeg Street on August 13 and 14, 2002. The findings, interpretations, and conclusions concerning the Site are based solely on the Site conditions observed while at the Site. The data presented in this report represent the soil conditions at the sampling locations tested. Soil conditions may vary with location, depth, sampling methodology, analytical techniques, and other factors.

Golder Associates Ltd. makes no warranty, expressed or implied, and assumes no liability with respect to the use of the information contained in this report at the subject Sites, or at any other Site, for other than its intended purpose.

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. Golder Associates Ltd. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

If new information is discovered in the future during Site excavations, building demolition or other activities, or if additional subsurface investigations or testing are conducted by others, Golder Associates Ltd. should be requested to re-evaluate the conclusions of this report and to provide amendments as required prior to any reliance upon the information presented herein.

5.0 CLOSURE

We trust this letter report provides the information you require. If you have any further questions, please do not hesitate to contact the undersigned.

Yours truly,

GOLDER ASSOCIATES LTD.



Kevin Beechinor, B.Sc.
Environmental Specialist



Greg Misfeldt, M.Sc., P.Eng.
Senior Geotechnical Engineer

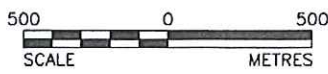
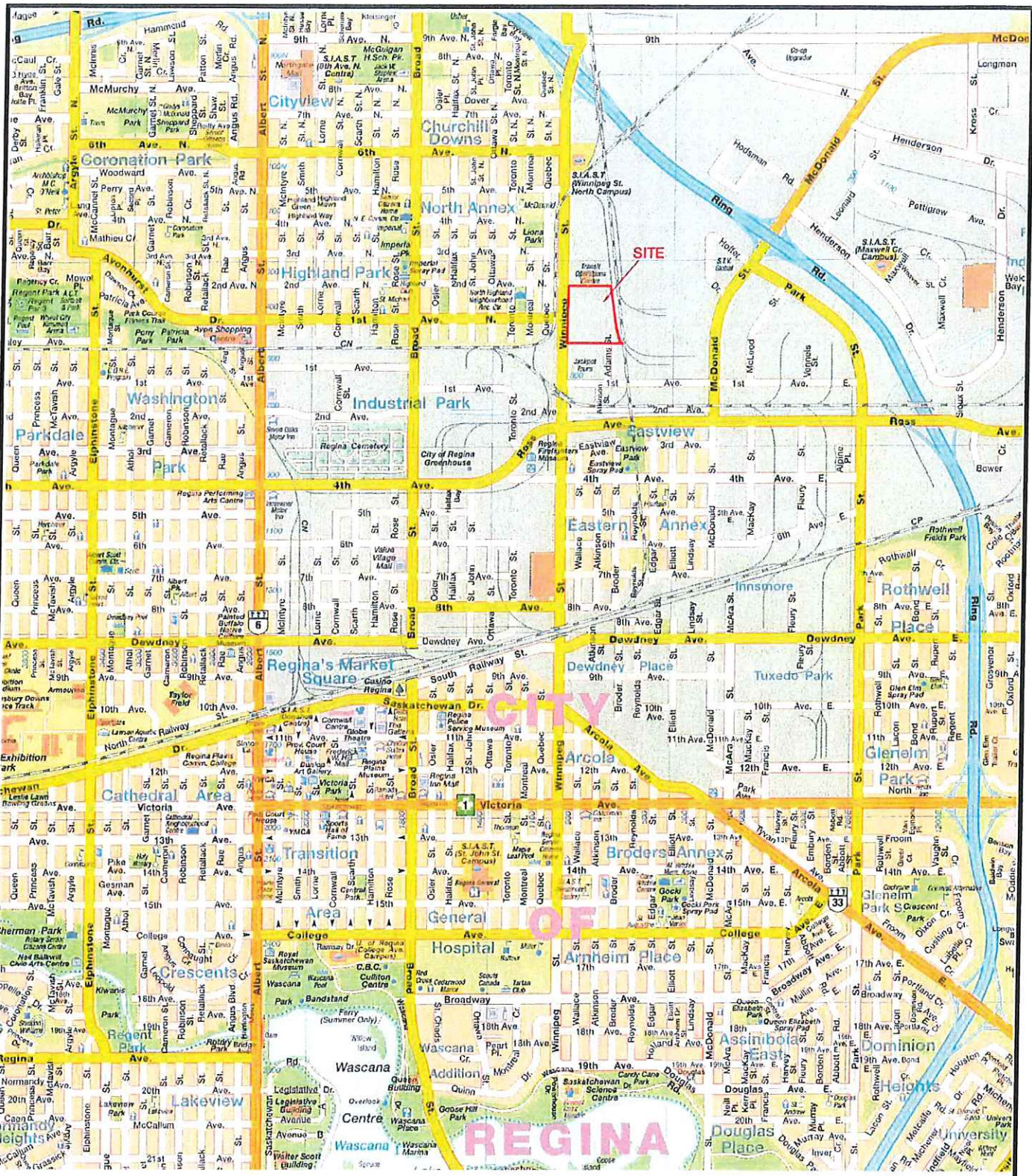
SRS/KB/GM/bh

N:\ACTIVE\6700\022-6762 AGRIFOODS UST REMOVALS REGINA\REPORT\LET 03 JAN 27 CLOSURE LETTER 022-6762.DOC

cc: Kim Wunderlich, Environment Officer, Saskatchewan Environment, Grasslands Region
Ron Mathieson, Fire Department, City of Regina
Gary Nieminen, Municipal Engineering Department, City of Regina

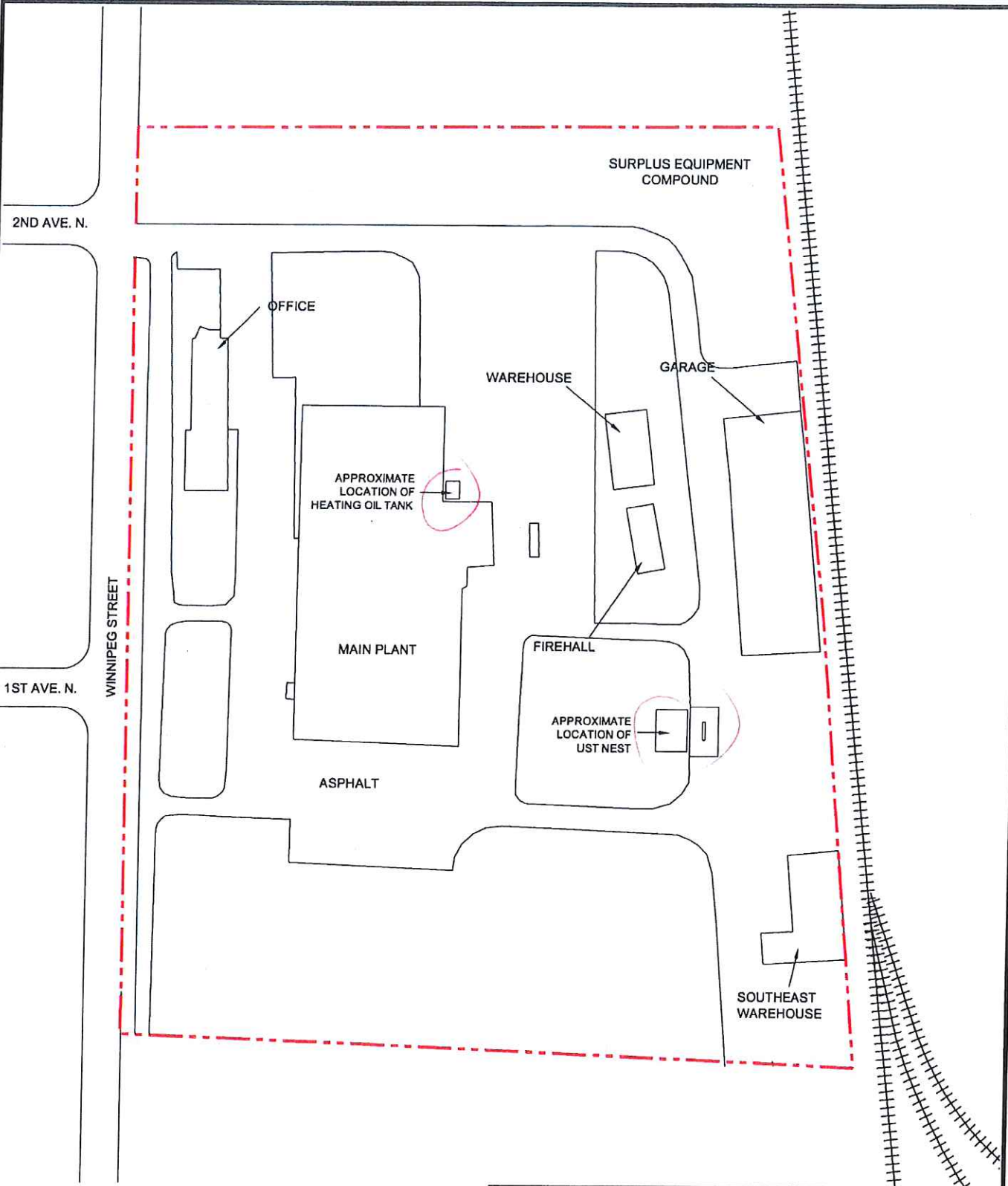
Attachments

FIGURES

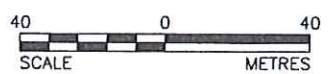


PROJECT		UST REMOVAL	
TITLE			
SITE LOCATION PLAN, REGINA, SASKATCHEWAN			
 Golder Associates Saskatoon, Saskatchewan	PROJECT No.	022-6762	FILE No.
	DESIGN		SCALE AS SHOWN
	CADD	SIB	REV. 0
	CHECK		
REVIEW			
FIGURE: 1			

N:\Active\6700\022-6762 Agrifoods UST Removals Regina\cad\ Drawing file: 6762-5200-figure2.dwg Jan 27, 2003 - 2:33pm



LEGEND
 - - - - - AGRIFOODS PROPERTY LINE



PROJECT				UST REMOVAL			
TITLE				SITE PLAN 445 WINNIPEG STREET REGINA, SASKATCHEWAN			
PROJECT No.		022-6762		FILE No.			
DESIGN	RJS/SIB	22/01/03	SCALE	AS SHOWN	REV.	0	
CADD							
CHECK							
REVIEW							



FIGURE: 2

APPENDIX I
ANALYTICAL RESULTS



a Division of BP Petroleum Services LTD

Facsimile Cover Sheet

Date: JAN. 24. 2003

Name: Kevin Beechinar

Company: Goldar Associates

Fax: () 665 - 2342

Subject: Attachment

Multiple horizontal lines for additional information or notes.

We are sending 5 page(s) including this cover page

From Darcy Campbell

Petrocare Construction
1202 Avenue X South Saskatoon, Saskatchewan, Canada, S7M 3H9
Phone (306) 931-2344 Fax (306) 668-7655
E-mail us petrocare@sasktel.net or darcycampbell@sasktel.net
Or Visit us at www.petrocare.ca

PETROCARE CONSTRUCTION SERVICES

1202 Avenue X South Saskatoon, Saskatchewan S7M 3H9
Phone: (306) 931-2344 Fax: (306) 668-7655

STATUTORY DECLARATION


In the matter of a contract entered into between Goldar Associates Innovative Applications Inc., party of the first part and Petrocare Construction Services, party of the second part, to perform work for the Destruction of 2- 5,000 gallon and 1-3,000 gallon underground Tanks from the former Dairyworld Site at 455 Winnipeg Street, Regina, Saskatchewan.

TO WIT: I, Darcy R. Campbell, of the City of Saskatoon, in the Province of Saskatchewan do solemnly declare:

1. That I am President of Petrocare Construction Services, the party of the second part.
2. That I have personal knowledge of the facts herein declared.
3. That the tanks listed above have been made unfit for reuse as per instructions, and have been destroyed.

And I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

DECLARED before me at the City of
Saskatoon, in the Province of
Saskatchewan this 24th Day of
January 2003



(Darcy R. Campbell)



Frances C. Yesnik
A Commissioner for Oaths, in and for
The Province of Saskatchewan
My commission expires March 31, 2006

Edmonton (Main)
9936 - 67 Avenue
Edmonton, AB T6E 0P5
Phone: (780) 413-5227
Fax: (780) 437-2311

ETL EnviroTest

A DIVISION OF ETL CHEMSPEC ANALYTICAL LIMITED

Edmonton (Downtown)
Industrial Hygiene
2nd Flr., 10158 - 103 Street
Edmonton, AB T5J 0X6
Phone: (780) 413-5265
Fax: (780) 424-4602

Calgary
12, 1313 - 44 Ave. N.E.
Calgary, AB T2E 6L5
Phone: (403) 291-9897
Fax: (403) 291-0298

Grande Prairie
105 - 111 Street
Grande Prairie, AB T8V 5W1
Phone: (780) 539-5196
Fax: (780) 513-2191

Saskatoon
124 Veterinary Road
Saskatoon, SK S7N 5E3
Phone: (306) 668-8370
Fax: (306) 668-8383
1-800-667-7645

Winnipeg
745 Logan Avenue
Winnipeg, MB R3E 3L5
Phone: (204) 945-3705
Fax: (204) 945-0763

Thunder Bay
31 Barton Street
Thunder Bay, ON P7B 5N3
Phone: (807) 623-6463
Fax: (807) 623-7598

Waterloo
Genos Laboratories Inc.
210 Colonnade Road
Unit #13
Waterloo, ON N2E 7L5
Phone: (613) 731-1005
Fax: (613) 736-1107

Waterloo
1 Bathurst Drive
Unit #1
Waterloo, ON N2V 2C5
Phone: (519) 886-6910
Fax: (519) 886-9047

Wyoming
1 West First Street
Cheyenne, Wyoming 82601
Phone: (307) 235-5741
Fax: (307) 266-1676
1-800-666-0306

Wide Phone:
1-888-9878

Western Canada Fax:
800-286-7319

www.envirotest.com

CHEMICAL ANALYSIS REPORT

GOLDER ASSOCIATES LTD
ATTN: KEVIN BEECHNOR
200, 145 1st AVE N
SASKATOON SK S7K 1W6

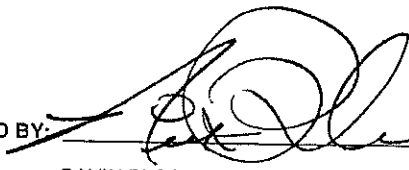
DATE: 19-AUG-02
RECEIVED
AUG 23 2002
GOLDER ASSOCIATES
SASKATOON
FILE: _____

Lab Work Order #: L76745 Sampled By: Date Received: 16-AUG-02

Project P.O. #: 022-~~6772~~ ⁶⁷⁶²

Project Reference: 022-6772

Comments:

APPROVED BY:  FOR
GAVIN PLOSZ
Project Manager

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

LABORATORY ACCREDITATIONS:
• STANDARDS COUNCIL OF CANADA IN COOPERATION WITH THE CANADIAN ASSOCIATION FOR ENVIRONMENTAL ANALYTICAL LABORATORIES (CAEAL)
FOR SPECIFIC TESTS AS REGISTERED BY THE COUNCIL (EDMONTON, CALGARY, GRANDE PRAIRIE, SASKATOON, WINNIPEG, THUNDER BAY, WATERLOO)
• AMERICAN INDUSTRIAL HYGIENE ASSOCIATION (AIHA) IN THE INDUSTRIAL HYGIENE PROGRAM (EDMONTON, WINNIPEG)
• STANDARDS COUNCIL OF CANADA IN COOPERATION WITH THE CANADIAN FOOD INSPECTION AGENCY (CFIA) FOR FERTILIZER AND FEED TESTING
(SASKATOON) AND FOR MICROBIOLOGICAL TESTING IN FOOD (WINNIPEG)
LABORATORY RECOGNITIONS:
• STANDARDS COUNCIL OF CANADA - GLP COMPLIANT FACILITY (EDMONTON, OTTAWA)

ENVIRO-TEST CHEMICAL ANALYSIS REPORT

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
L76745-1 3T								
Sample Date: 14-AUG-02								
Matrix: SOIL								
CCME TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	2400		5	mg/kg		19-AUG-02		
F1-BTEX	2200		5	mg/kg		19-AUG-02		
F2 (C10-C16)	1500		5	mg/kg		19-AUG-02		
F3 (C16-C34)	850		5	mg/kg		19-AUG-02		
F4 (C34-C50)	16		5	mg/kg		19-AUG-02		
Total Hydrocarbons (C6-C50)	4800	1000	5	mg/kg		19-AUG-02		
Chromatogram to baseline at nC5	Yes					19-AUG-02		
CCME Total Extractable Hydrocarbons								
Prep/Analysis Dates		1995			18-AUG-02	18-AUG-02	GSP	R89135
BTEX		SEPM CRITERIA						
Benzene	7.6	5.0	0.01	mg/kg	18-AUG-02	19-AUG-02	GSP	R89125
Toluene	45	30	0.01	mg/kg	18-AUG-02	19-AUG-02	GSP	R89125
Ethylbenzene	13	50	0.01	mg/kg	18-AUG-02	19-AUG-02	GSP	R89125
Xylenes	110	50	0.01	mg/kg	18-AUG-02	19-AUG-02	GSP	R89125
% Moisture	14	CONF. / ND CRITERIA	0.1	%	18-AUG-02	19-AUG-02	GSP	R89075
L76745-2 HO								
Sample Date: 14-AUG-02								
Matrix: SOIL								
CCME TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	730		5	mg/kg		19-AUG-02		
F1-BTEX	690		5	mg/kg		19-AUG-02		
F2 (C10-C16)	4000		5	mg/kg		19-AUG-02		
F3 (C16-C34)	1800		5	mg/kg		19-AUG-02		
F4 (C34-C50)	47		5	mg/kg		19-AUG-02		
Total Hydrocarbons (C6-C50)	6600	1000	5	mg/kg		19-AUG-02		
Chromatogram to baseline at nC5	Yes					19-AUG-02		
CCME Total Extractable Hydrocarbons								
Prep/Analysis Dates					18-AUG-02	18-AUG-02	GSP	R89135
BTEX								
Benzene	0.12	5.0	0.01	mg/kg	18-AUG-02	19-AUG-02	GSP	R89125
Toluene	6.2	30	0.01	mg/kg	18-AUG-02	19-AUG-02	GSP	R89125
Ethylbenzene	7.3	50	0.01	mg/kg	18-AUG-02	19-AUG-02	GSP	R89125
Xylenes	29	50	0.01	mg/kg	18-AUG-02	19-AUG-02	GSP	R89125
% Moisture	14		0.1	%	18-AUG-02	19-AUG-02	GSP	R89075

Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Methods Listed (if applicable):

ETL Test Code	Matrix	Test Description	Preparation Method Reference**	Analytical Method Reference**
ETL-BTX,TVH-CCME-SK	Soil	BTEX		CCME CWS-PHC Dec-2000 - Pub# 1310
ETL-TEH-CCME-SK	Soil	CCME Total Extractable Hydrocarbons		CCME CWS-PHC Dec-2000 - Pub# 1310
PREP-MOISTURE-SK	Soil	% Moisture		Oven dry 105C-Gravimetric

** Analytical Methods employed follow in-house standard operations procedures, which are generally based on US-EPA, ASTM, NIOSH and/or APHA methods.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
SK	Enviro-Test Laboratories - Saskatoon, Saskatchewan, Canada		

Please note that there has been detection limit changes on some of the parameters for the following products as of 1 December 2001.

The following soil metal packages:

METAL-ED, METAL-EXD-ED, METAL-CCME-ED, METAL-G50-ED, METAL-PITS-BC-ED, METAL-SK-GL99-ED, METAL-OILYWST-ED and METAL-REFINEDOIL-ED, METAL-LOW-ED and METAL-LOW-EXD-ED

The following water metal package:

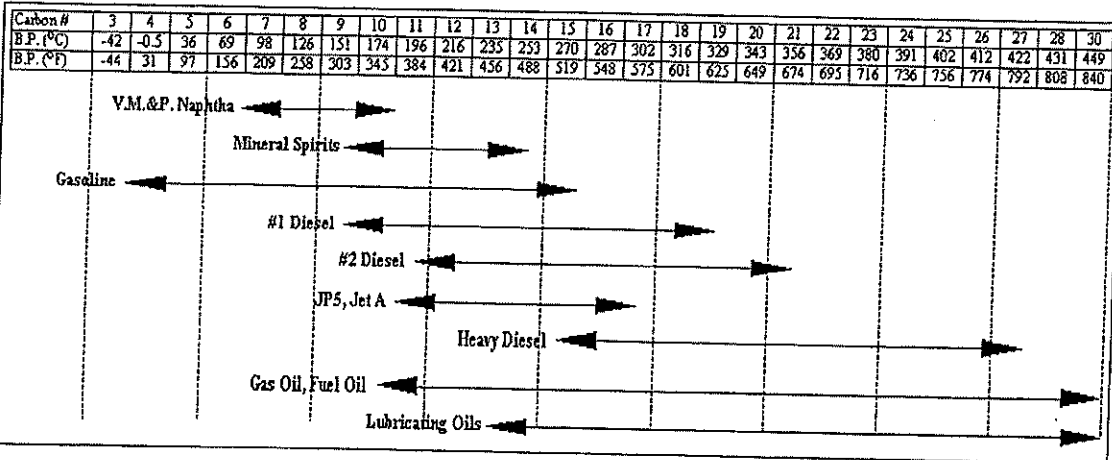
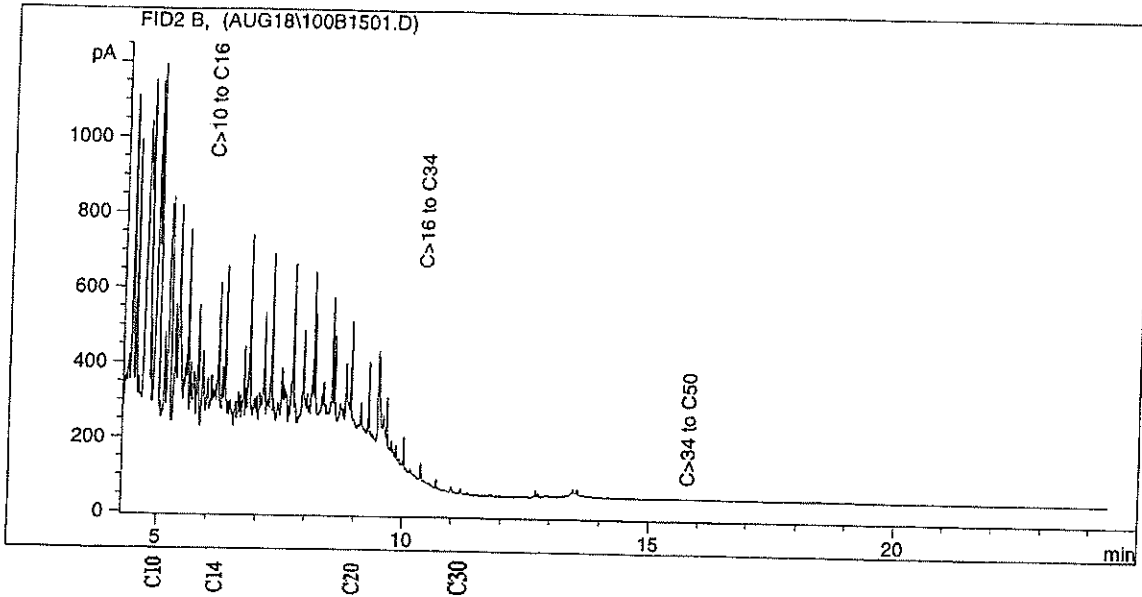
MET-TOT-LOW-ED

Test results reported relate only to the samples as received by the laboratory.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

Enviro-Test Laboratories has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, Enviro-Test Laboratories assumes no liability for the use or interpretation of the results

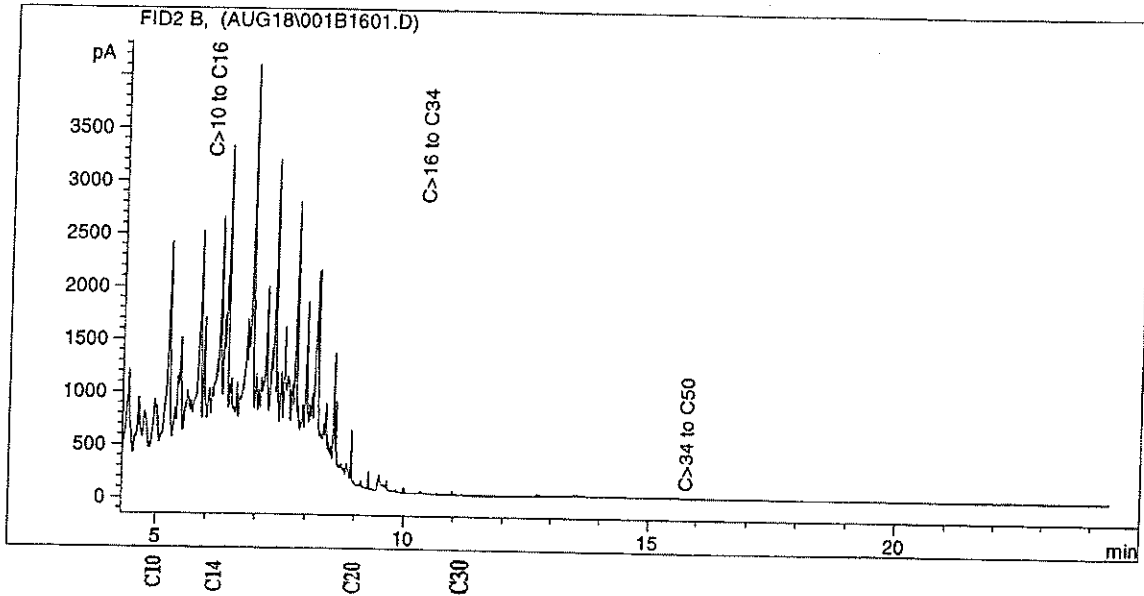
Client ID: 3T
 Sample ID: L76745-1
 Injection Date: 8/19/02 11:10:11 AM
 Injection Time: 8/19/02 11:10:11 AM
 Instrument ID: GC1
 Operator: GP/IG



Boiling Point Distribution Range for Petroleum Based Fuel Products

Adapted from: Drews, A.W., ED; Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA, 1989: p XVIII

Client ID: HO
 Sample ID: L76745-2
 Injection Date: 8/19/02 11:51:31 AM
 Injection Time: 8/19/02 11:51:31 AM
 Instrument ID: GC1
 Operator: GP/IG



Carbon #	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	30
B.P. (°C)	-42	-0.5	36	69	98	126	151	174	196	216	235	253	270	287	302	316	329	343	356	369	380	391	402	412	422	431	449
B.P. (°F)	-44	31	97	156	209	258	303	345	384	421	456	488	519	548	575	601	625	649	674	695	716	736	756	774	792	808	840

VM.&P. Naphtha	←	→
Mineral Spirits	←	→
Gasoline	←	→
#1 Diesel	←	→
#2 Diesel	←	→
JP5, Jet A	←	→
Heavy Diesel	←	→
Gas Oil, Fuel Oil	←	→
Lubricating Oils	←	→

Boiling Point Distribution Range for Petroleum Based Fuel Products

Adapted from: Drews, A.W., ED; Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA, 1989; p XVIII