ETL Envirotest
LABORATORIES
A DIVISION OF ETL CHEMSPEC ANALYTICAL LIMITED

9936 - 67th Avenue — Edmonton, Alberta T6E 0P5 Telephone: (403) 434-9509 FAX: (403) 437-2311

Recycled Paper

CHEMICAL ANALYSIS REPORT

GOVERNMENT NORTHWEST TERRITORIES
RENEWABLE RESOURCES
IQUALUIT, N.W.T
X0A 0H0

DATE: August 19, 1993

ATTN: ROBERT ENO

Lab Sample #: E3-07-517 Sampled By: Client

Customer #: _____ Date Received: July 30, 1993

Analysis Date: August 3, 1993

Sample Description: 2 soil samples and 3 water samples for total extractables analysis.

PART 1: WATER TEH RESULTS

LAB SAMPLE #	SAMPLE I.D.	RESULTS (µg/L or ppb) Total Extractables
E3-07-517-02A	LOT #2 7/19/93	320[1] = .320 ppm
E3-07-517-04A	LOT #4 7/19/93	34,000[2] = 34 ppm
E3-07-517-05A	LOT #14 7/19/93	380,000[3] = 380 ppm
Detection Limits -		50

PART 2: SOIL TEH RESULTS

LAB SAMPLE #	SAMPLE I.D.	Total Extractables (µg/g or ppm)*	Percent Moisture (%)
E3-07-517-01	LOT #1	740[4]	48.8
E3-07-517-03	LOT #3	1800[5]	14.5
Detection Limits -		5.0	-

* Results are reported on a dry weight basis.

NOTE: Percent moisture is expressed as a percentage of the total wet weight as received.

E3-07-517 cont'd

Total Extractables: This result is a summation of the hydrocarbon concentration from the C_7 to C_{30} carbon range (including toluene, ethylbenzene, xylenes) and is calculated against a calibrated diesel or gasoline standard.

1. GC/FID analysis of total extractables showed major components in the C_{10}-C_{20} carbon range with no discernable pattern.

2. GC/FID analysis of total extractables showed major components in the C_9-C_{20} carbon range with a pattern indicative of diesel.

3. GC/FID analysis of total extractables showed major components in the C_7-C_{20} carbon range with a pattern indicative of diesel.

4. GC/FID analysis of total extractables showed major components in the C_{10}-C_{25} carbon range with a pattern indicative of weathered diesel.

5. GC/FID analysis of total extractables showed major components in the C_{15}-C_{30} carbon range with no discernable pattern.

TOTAL EXTRACTABLE METHOD REFERENCE: EPA SW 846 METHOD-3550 OR 3580/8000

QA/QC:

TEST	ACCURACY	PRECISION
Total Extractables (soil)	95%	±21%
Total Extractables (water)	87%	±19%

NOTE: Accuracy is expressed as the average % recovery and Precision as the relative standard deviation (RSD) of fortifications made using certified reference standards (B.T.E.X.) and in-house standards (total extractables).

E3-07-517 cont'd

CERTIFIED BY: _____
Meseld Abetew, Residue Analyst

CERTIFIED BY: _____
Heather Gordon, Residue Analyst

APPROVED BY: _____
Doug Johnson, Project Manager

ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU REQUIRE ADDITIONAL SAMPLE STORAGE TIME.