

LIST # 1548

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ENTERED
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DEPT OF ECOLOGY

July 7, 1998

Mr. Joe Hickey
Department of Ecology
3190 SE 160th Street
Bellevue, WA

RE: Jay's Cleaners, 2350 24th Avenue East, Seattle, Washington.

Dear Mr. Hickey:

Enclosed please find the Interim Field Report for the above referenced site. Should you have any questions about this report or any other issue, I can be reached at 425-355-2826.

Sincerely,
Glacier Environmental Services, Inc.,

Curt Lightle
Project Supervisor

DEPARTMENT OF ECOLOGY	
NWRO/TCP TANKS UNIT	
INTERIM CLEANUP REPORT	<input checked="" type="checkbox"/>
SITE CHARACTERIZATION	<input type="checkbox"/>
FINAL CLEANUP REPORT	<input type="checkbox"/>
OTHER _____	<input type="checkbox"/>
AFFECTED MEDIA: SOIL	<input checked="" type="checkbox"/>
OTHER _____ GW	<input checked="" type="checkbox"/>
INSPECTOR (INIT.) _____	DATE 5-20-99

**INTERIM REPORT
GROUNDWATER TREATMENT SYSTEM
JAY'S CLEANERS
2350 24TH AVE EAST
SEATTLE, WA**

June 28, 1998
Project # 98015

Prepared for:
Washington State Department of Ecology
Northwest Region

Prepared by:
Glacier Environmental Services, Inc
12521 Evergreen Drive
Mukilteo, Washington 98275

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1.0 SUMMARY

This report is intended to summarize work performed at Jay's Cleaners, 2350 24th Avenue East, Seattle, WA, from April 1995 to May 1998 by Glacier Environmental Services, Inc. (Glacier). The system consists of two liquid phase 55 gallon carbon units connected in series. Groundwater is pumped (approximately 5 gpm) from a recovery well located on site to the treatment system. Once the contaminated water is treated, it is then discharged into the City of Seattle sewer system (see Attachment A for Discharge Permit).

2.0 CARBON SYSTEM EFFLUENT SAMPLING

Twice yearly, an effluent sample is collected from the treatment system and analyzed to assure compliance with maximum contaminant concentration limits (per City of Seattle). To date, all sample results have been below the maximum concentration and are presented in Table 1 (see Attachment B for lab data sheets). An annual discharge report is submitted to the City which summarizes these sample results and the amount of water discharged into the sewer (see Attachment C for annual reports). The City has been satisfied with these reports to date.

TABLE - 1 EFFLUENT SAMPLE RESULTS

Date Sampled	Benzene (MC-.13 ppm)	Tolulene (MC-1.5 ppm)	Xylene (MC-NA)	Ethylbenzene (MC-1.4 ppm)	Non-polar FOG (WTPH-418.1) (MC-100 ppm)
July 5, 1995	ND	ND	ND	ND	ND
February 22, 1996	.055 ppm	ND	ND	ND	ND
May 29, 1996	ND	ND	ND	ND	ND
September 18, 1996	ND	ND	ND	ND	ND
July 11, 1997	ND	ND	ND	ND	ND
December 30, 1997	ND	ND	ND	ND	17.2 ppm

MC - Maximum Concentration for discharge into the City sewer system.

3.0 CARBON SYSTEM INFLUENT SAMPLING

Table - 2 summarizes influent sample results. Influent samples are collected to help determine the change-out rate of the carbon units and to indicate cleanup progress. The most recent sampling event occurred on February 22, 1998. Results of this event were the lowest since the current system began operations.

TABLE - 2 INFLUENT SAMPLE RESULTS

Date Sampled	Benzene	Tolulene	Xylene	Ethylbenzene	Non-polar FOG (WTPH-418.1)
April 20, 1995	5.5 ppm	3.7 ppm	2.9 ppm	.36 ppm	7.3 ppm
May 29, 1996	6.8 ppm	3.6 ppm	3.0 ppm	.48 ppm	NA
February 22, 1998	3.53 ppm	2.08 ppm	2.04 ppm	.381 ppm	NA

4.0 WELL MONITORING

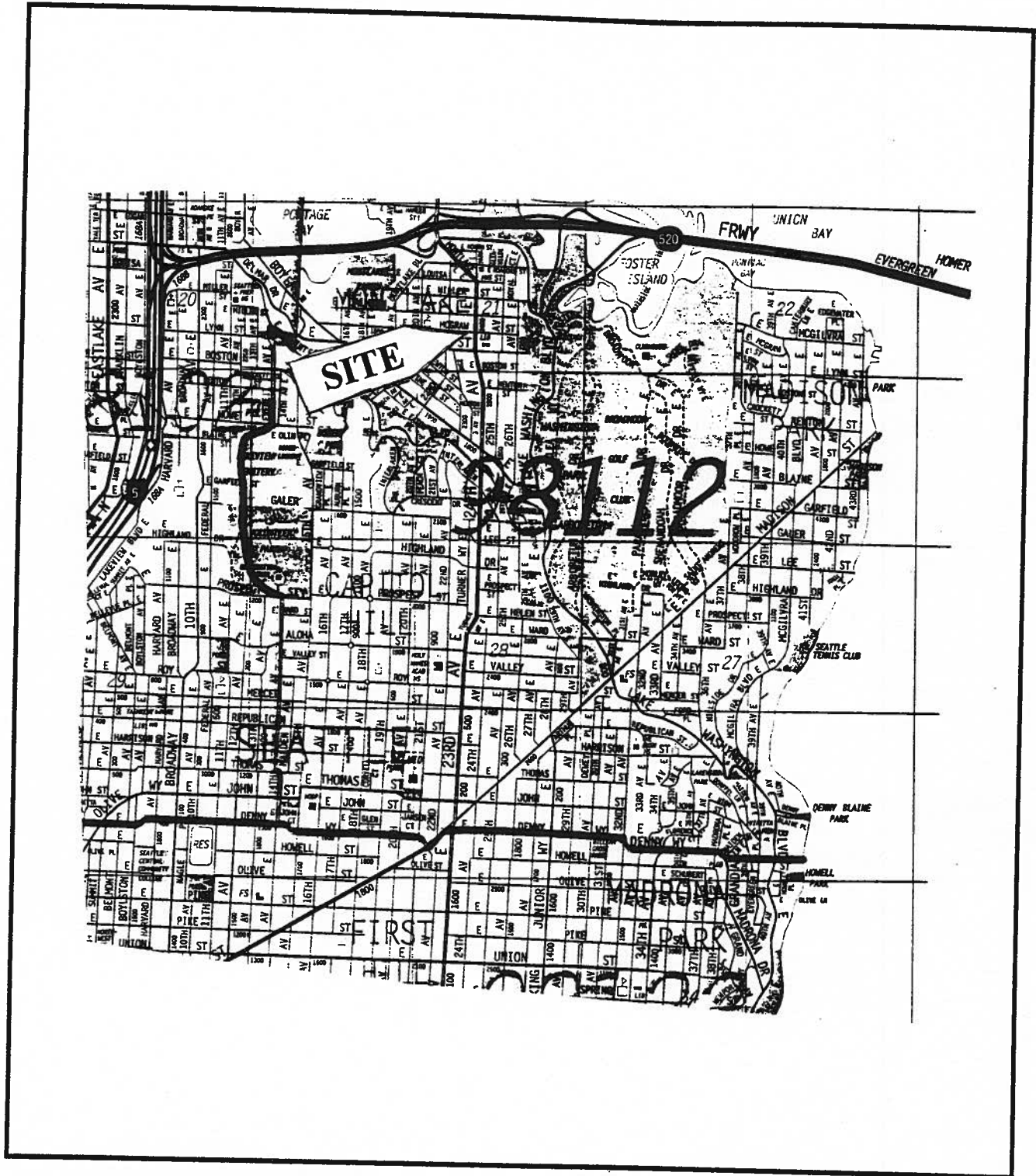
The downgradient wells (MW-4, MW-8, MW-9, MW-15, see drawing) have been checked monthly for free product. Glacier has noted that the amount of free product has been steadily decreasing during this period and has discontinued well bailing of free product. On April 14, 1998, Glacier checked all 16 of the monitoring wells for free product. Although no product was observed in any of the wells, a distinct petroleum odor does was detected from several of them.

5.0 VAPOR EXTRACTION SYSTEM

The site vapor extraction system was shut down in 1997. Readings were taken using a Photionization Detector and a Combustible Gas Indicator from the exhaust stack. No significant hydrocarbons were detected with either of these instruments for two consecutive months. Therefore, the system was shut down.

6.0 CONCLUSION

As indicated by the decreased concentrations of BTEX components in the influent samples, and the absense of free products in the monoitring wells, Groundwater cleanup appears to be progressing satisfactorily. We recommend continued operation of the system for an additional 6 months (end of the year) and than resampling of the influent groundwater. If sample results continue to decrease, than sampling of all the wells should be considered to determine whether the groundwater contamination remains widespread or is now isolated to the area around the recovery well. It is possible that contaminated soil in the immediate vicinity of the recovery well and the closest monitoring wells is impacting relatively clean groundwater as it is drawn through the contaminated soil.



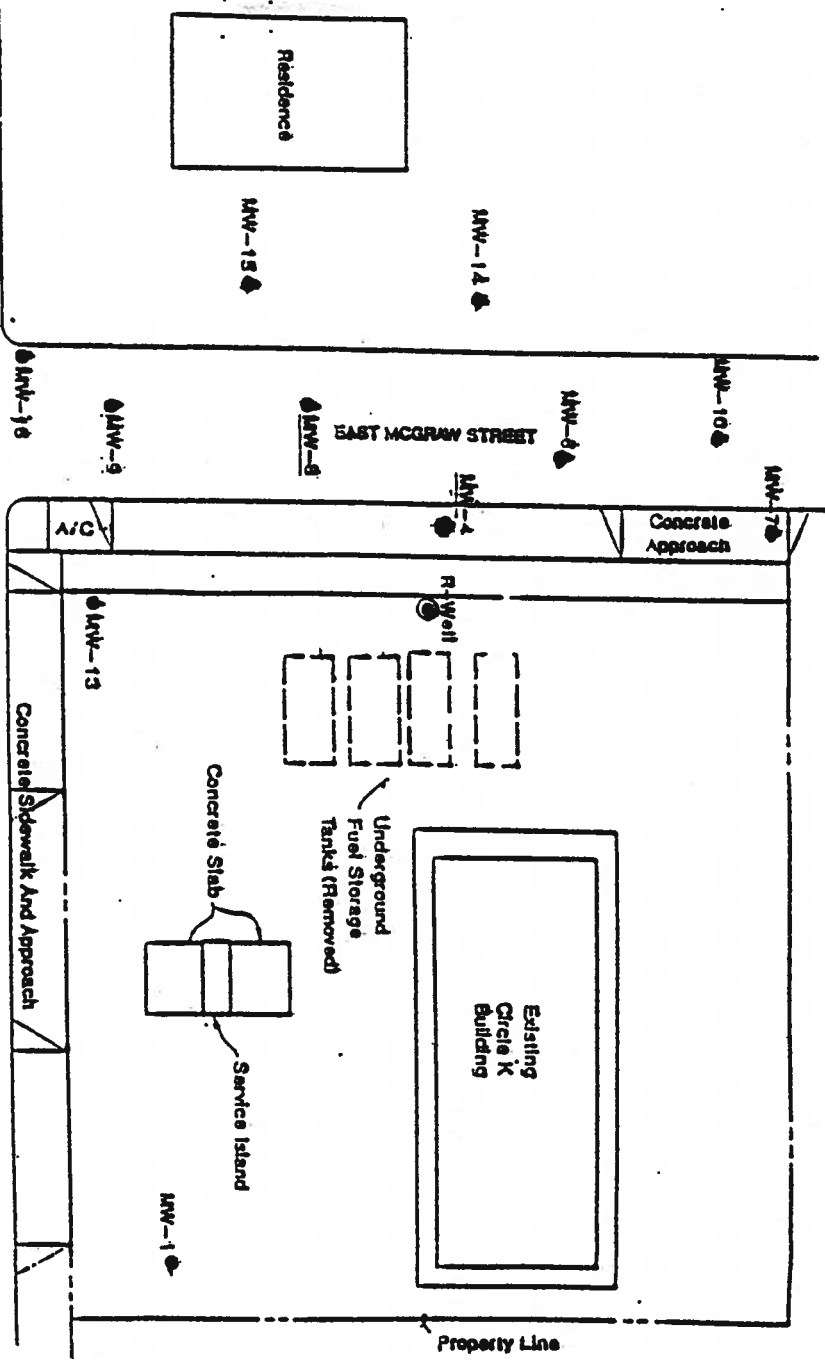
GLACIER ENVIRONMENTAL SERVICES, INC.
 12521 Evergreen Drive, Suite A
 Mukilteo, WA 98275

Prepared By: CL
 Date: 6-29-98

FIGURE 1 -Site Vicinity Map
 Jay's Cleaners
 2350 24th Avenue East
 Seattle, Washington

0 20 40
SCALE IN FEET

24TH AVENUE EAST



EXPLANATION:

MW-4
0.55 MONITOR WELL LOCATION AND NUMBER
PRODUCT THICKNESS (FEET) ON 12/28/89

R-WELL (C) RECOVERY WELL LOCATION

Figure 2 - Site Map
Jay's Cleaners
2350 24th Avenue East
Seattle, WA

Attachment A

KING COUNTY DEPARTMENT OF METROPOLITAN SERVICES

MAJOR DISCHARGE AUTHORIZATION

NUMBER 192

FOR

Jin's Enterprises

MAILING ADDRESS : 2350 - 24th Avenue East
Seattle, WA 98112

PHYSICAL ADDRESS: 2350 - 24th Avenue East
Seattle, Washington

PHONE: (206) 355-2826 CONTACT: Duane Maki, Glacier Environmental
(206) 522-9767 Jin Choung, Jin's Enterprises

INDUSTRY TYPE: Former Gasoline Service Station

SIC: 5171 EPA I.D.: Not Applicable

DISCHARGE TO: WEST POINT TREATMENT PLANT

*Note: This authorization is valid only for the specific process and
dates shown below:

DISCHARGE PROCESS: Ground water remediation project for leaking
underground storage tanks

MAXIMUM VOLUME: 11,500 GPD

EFFECTIVE DATE: March 20, 1994

EXPIRATION DATE: March 20, 1999

For information concerning this Metro Discharge Authorization please
contact Patricia Magnuson, Industrial Waste Investigator at 689-3019.

24-HOUR
EMERGENCY NOTIFICATION

WEST POINT TREATMENT PLANT: 689-3801

DEPARTMENT OF ECOLOGY: 649-7000

(For Your Use)

LOCAL FIRE DEPARTMENT: _____

24-HR. CORPORATE CONTACTS: _____

SPECIAL CONDITIONS

Jin's Enterprises shall contact Ms. Lynn Edgar of the City of Seattle (684-0833) and arrange for payment of sewer fees for all discharges to the sanitary sewer.

All wastewater self monitoring reports must be signed by an authorized representative [as defined below] of the user and contain the following certification statement:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

The term Authorized Representative is defined in 40 CFR Part 403.12(1). The definition is summarized as follows in subsection 3A4 of King County Ordinance 11034:

- (1) A principal executive officer of at least the level of vice president, if the industrial user is a corporation;
- (2) A general partner or proprietor if the Industrial User is a partnership or proprietorship, respectively;
- (3) A director or highest official appointed or designated or oversee the operation and performance of the industry if the Industrial User is a government agency;
- (4) A duly authorized representative of the individual designated above if such representative is responsible for the overall operation of the facilities from which the indirect discharge originates.

The delegation of authority to act as the duly authorized representative must be communicated to Metro in writing.

Discharge Limitations

<u>Constituent</u>	<u>Maximum Concentration, ppm</u>
Benzene	0.13
Toluene	1.5
Ethylbenzene	1.4
Nonpolar Fats, Oil & Grease (nonpolar FOG)	100

Operating Criteria

- a) There shall be no pronounced odor of solvent or gasoline.
- b) There shall be no pronounced oil sheen or unusual color.
- c) There shall be no pronounced hydrogen sulfide (rotten egg) odor.
- d) There shall be no visibly pronounced turbidity, the discharge must remain translucent.

Metro will expect operators on site to pay close attention to these operating criteria whenever discharge to the sanitary sewer is occurring. If any of the discharge limits or operating criteria are exceeded, you must stop discharging and notify the Metro Industrial Waste Section at 689-3000.

Monitoring Requirements

The following monitoring requirements shall be met for this discharge authorization:

<u>Parameter</u>	<u>Frequency</u>	<u>Sample Type/Method</u>
Flow	Monthly Total (also expressed as average gallons/day)	Meter or pump (gallons)
Hydrogen Sulfide	Only if operating criteria are exceeded	Meter
Settleable Solids	Only if operating criteria are exceeded	Grab/Imhoff Cone
Explosivity	Only if operating criteria are exceeded	Meter
Nonpolar FOG	Twice yearly (once between Jan. & June and once between July & Dec.)	Grab/Standard Method 5520F
Benzene, toluene, ethylbenzene	Twice yearly thereafter (once between Jan. & June and once between July & Dec.)	Grab/EPA Method 602

An annual self-monitoring report shall be filed with Metro by the 15th of December each year. This annual report must include the total monthly volumes of water discharged to the sewer as well as the analytical results of the twice yearly testing. If no discharge takes place during any monitoring period, it shall be noted on the annual report.

If a violation of any discharge limits or operating criteria are detected in monitoring, you shall notify the Metro Industrial Waste Section immediately upon receipt of analytical data.

The suggested analytical method for the contaminant indicators benzene, ethylbenzene and toluene is EPA Method 602 in Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater (EPA-600/4-82-057, July 1982). The required analytical method for the contaminant indicator of nonpolar FOG is Method 5520F (with a partition-gravimetric extraction procedure) in the 1989 Standard Methods for the Examination of Water and Wastes (17th edition).

GENERAL DISCHARGE LIMITATIONSCorrosive Substances

Lower Limit

Minimum . pH 5.0
Average . pH 5.5

The lower pH limit is violated whenever any single sample or any instantaneous recording is less than pH 5.0 or when a composite sample consisting of at least four consecutive samples taken at intervals of 15 minutes or greater is less than 5.5 or when any recording of 15 minutes or more averages less than 5.5.

Upper Limit

Process rinsewater discharges pH 12.0

Discharges of more than 50 gallons per day of caustic solutions equivalent to more than 5% NaOH by weight or greater than pH 12.0 are prohibited unless authorized by permit and subject to special conditions to protect worker safety, the collection system, and treatment works.

High Temperature

The industrial user shall not discharge material with a temperature in excess of 65 C (150 F).

Fats, Oils and Greases (FOG)

Polar FOG = FOG of animal and/or vegetable origin. Dischargers of polar FOG shall minimize free floating polar FOG. Dischargers of Polar FOG shall not result in significant accumulations which either alone or in combination with other wastes are capable of obstructing flow or interfere with the operation or performance of sewer works or treatment facilities. Dischargers may not add emulsifying agents exclusively for the purposes of emulsifying free floating FOG. Companies which discharge free floating polar FOG may be required to complete, for Metro's review and approval, a FOG control plan.

Nonpolar FOG = FOG of mineral/petroleum origins. The industrial user shall not discharge wastes that contain in excess of 100 milligrams per liter (mg/l) of nonpolar fats, oils and greases (FOG).

Flammable or Explosive Materials

No person shall discharge and pollutant, as defined in 40 CFR 401.11, that creates a fire or explosion hazard in any sewer or treatment works, including, but not limited to, wastestreams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21.

At no time shall two successive readings on an explosion hazard meter, at the point of discharge into the system (or at any point in the system), be more than five percent (5) nor any single reading be more than ten percent (10%) of the Lower Explosive Limit (LEL) of the meter.

Pollutants subject to this prohibition include, but are not limited to, gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides, and sulfides, and any other substances that Metro, a fire department, the State, or EPA have notified the user are a fire hazard or a hazard to the system.

Settleable Solids

Settleable solids 7.0 ml/L

Organic Compounds

No person shall discharge any organic pollutants that result in the presence of toxic gases, vapors, or fumes within a public or private sewer or treatment works in a quantity that may cause acute worker health and safety problems.

Organic pollutants subject to this restriction include, but are not limited to:

Any organic pollutants compound listed in 40 CFR Section 433.11 (a). (Total Toxic Organics (TTO) definition).

Acetone, 2-butanone (MEK), 4-methyl-2-pentanone (MIBK), xylenes.

Hydrogen Sulfide

Atmospheric hydrogen sulfide 10.0 ppm
(As measured at a monitoring manhole designated by Metro)

Soluble sulfide limits may be established on a case-by-case basis depending upon volume of discharge and conditions in the receiving sewer, including oxygen content and existing sulfide concentrations.

Restricted Substances

The industrial user shall not discharge waste which exceed the following limitations:

Instantaneous Maximum (mg/L)			
Arsenic	4.0	Mercury	0.2
Cadmium	0.6	Nickel	5.0
Chromium	5.0	Silver	3.0
Copper	8.0	Zinc	10.0
Lead	4.0	Cyanide	3.0

Daily Average (mg/L)			
Arsenic	1.0	Mercury	0.1
Cadmium	0.5	Nickel	2.5
Chromium	2.75	Silver	1.0
Copper	3.0	Zinc	5.0
Lead	2.0	Cyanide	2.0

The instantaneous maximum is violated whenever the concentration of any sample, including a grab within a series used to calculate daily average concentrations, exceeds the limitation.

GENERAL CONDITIONS

1. All requirements and ordinances of King County Ordinance No. 11034 pertaining to the discharge of wastes into the municipal sewer system are hereby made a condition of this Discharge Authorization.
2. Any facility changes which will result in a change in the character or volume of the pollutants discharged to the municipal sewer system must be reported to your Metro representative. Any facility changes that will cause the violation of the effluent limitations specified herein will not be allowed.
3. In the event the industrial user is unable to comply with any of the conditions of this Discharge Authorization because of breakdown of equipment or facilities, an accident caused by human error, negligence, or any other cause, such as an act of nature the company shall:
 - (a) take immediate action to stop, contain and clean up the unauthorized discharges and correct the problem.
 - (b) immediately notify the Metro so steps can be taken to prevent damage to the sewerage system.
 - (c) submit a written report describing the breakdown, the actual quantity and quality of resulting waste discharged, corrective action taken, and the steps taken to prevent recurrence.

Compliance with these requirements does not relieve the industrial user from responsibility to maintain continuous compliance with the conditions of the Discharge Authorization or the resulting liability for failure to comply.

4. The industrial user shall, at all reasonable times, allow authorized representatives of the Metro to enter that portion of the premises where an effluent source or disposal system is located or in which any records are required to be kept under the terms and conditions of this Discharge Authorization.
5. Nothing in the Discharge Authorization shall be construed as excusing the industrial user from compliance with any applicable federal, state or local statutes, ordinances, or regulations.
6. This Discharge Authorization does not constitute authority for discharge into waters of the state. Any such discharge is subject to regulation and enforcement action by the Department of Ecology.

7. All requirements and ordinances of the Environmental Protection Agency and Department of Ecology pertaining to hazardous and toxic wastes, disposal facilities, and discharge of wastes into the municipal sewer system, are hereby made a condition of the Discharge Authorization.
8. This authorization does not authorize discharge after its expiration date. If the industrial user wishes to continue its discharge after the expiration date an application must be filed for reissuance of this discharge authorization at least 180 days prior to the expiration date. If the industrial user submits its reapplication in the time specified herein, the industrial user shall be deemed to have an effective waste discharge authorization until Metro issues or denies the new waste discharge authorization. If the industrial user fails to file its reapplication in the time period specified herein, the industrial user will be deemed to be discharging without a discharge authorization.

Investigator: G. W. Jackson For PRT Magnuson
Date: 3/2/94

Attachment B

Glacier Environmental
12521 Evergreen Drive, #A
Mukilteo, WA 98275
Attention: David DeSousa

Project Name: WSDOE, Former Circle K
Client Project #: #92-015
NCA Project #: B504330

Received: Apr 20, 1995
Reported: Apr 27, 1995

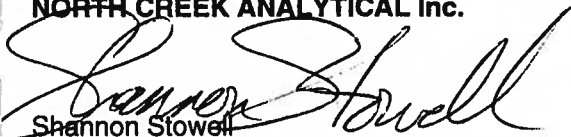
PROJECT SUMMARY PAGE

Laboratory Sample Number	Sample Description	Sample Matrix	Date Sampled
B504330-01	92-015-BTEX	Water	4/20/95
B504330-02	92-015-FOG	Water	4/20/95

RECEIVED
MAY - 3 1995
GLACIER - MUKILTEO

The results in this report apply to the samples analyzed in accordance with the chain of custody document.
This analytical report must be reproduced in its entirety.

NORTH CREEK ANALYTICAL Inc.


Shannon Stowell
Project Manager

Glacier Environmental
12521 Evergreen Drive, #A
Mukilteo, WA 98275
Attention: David DeSousa

Client Project ID: WSDOE, Former Circle K
Sample Matrix: Water
Analysis Method: EPA 602
First Sample #: B504330-01

Sampled: Apr 20, 1995
Received: Apr 20, 1995
Analyzed: April 25-26, 1995
Reported: Apr 27, 1995

BTEX DISTINCTION

Sample Number	Sample Description	Benzene µg/L (ppb)	Toluene µg/L (ppb)	Ethyl Benzene µg/L (ppb)	Xylenes µg/L (ppb)	Surrogate
						Recovery %
B504330-01	92-015-BTEX	5500	3700	360	2900	85
BLK	Method Blank	N.D.	N.D.	N.D.	N.D.	76

Reporting Limits:
0.50
0.50
0.50
1.0

4-Bromofluorobenzene surrogate recovery control limits are 59 - 144 %.
Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
Project Manager

504330.GLA <2>

Glacier Environmental
 12521 Evergreen Drive, #A
 Mukilteo, WA 98275
 Attention: David DeSousa

Client Project ID: WSDOE, Former Circle K
 Sample Matrix: Water
 Analysis Method: EPA 602
 Units: µg/L (ppb)
 QC Sample #: B504319-03

Analyst: B. Christlieb

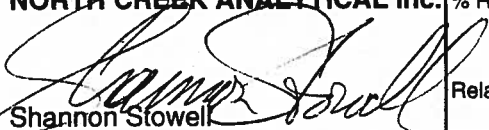
Analyzed: Apr 25, 1995
 Reported: Apr 27, 1995

MATRIX SPIKE QUALITY CONTROL DATA REPORT

ANALYTE	Benzene		Ethyl Xylenes	
	Benzene	Toluene	Benzene	Xylenes
Sample Result:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	10.0	10.0	10.0	30.0
Spike Result:	10.1	9.1	9.0	25.8
Spike % Recovery:	101%	91%	90%	86%
Spike Dup. Result:	10.5	9.4	9.2	25.6
Spike Duplicate % Recovery:	105%	94%	92%	85%
Upper Control Limit %:	115	116	122	122
Lower Control Limit %:	82	81	85	85
Relative % Difference:	3.9	3.2	2.2	0.78
Maximum RPD:	16	16	16	17

NORTH CREEK ANALYTICAL Inc.

% Recovery:	$\frac{\text{Spike Result} - \text{Sample Result}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2} \times 100$


 Shannon Stowell
 Project Manager

Glacier Environmental
12521 Evergreen Drive, #A
Mukilteo, WA 98275
Attention: David DeSousa

Client Project ID: WSDOE, Former Circle K
Sample Matrix: Water
Analysis Method: Total FOG: 413.2; Non-Polar: 418.1
First Sample #: B504330-2

Sampled: Apr 20, 1995
Received: Apr 20, 1995
Extracted: Apr 21, 1995
Analyzed: Apr 21, 1995
Reported: Apr 27, 1995

FATS OIL & GREASE

Sample Number	Sample Description	Total FOG Result mg/L (ppm)	Non-Polar Result mg/L (ppm)	Polar Result mg/L (ppm)
B504330-2	92-015-FOG	8.7	7.3	1.4
BLK042795	Method Blank	N.D.	N.D.	N.D.

Reporting Limit:

1.0

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


Shannon Stowell
Project Manager

504330.GLA <4>

Glacier Environmental
 12521 Evergreen Drive, #A
 Mukilteo, WA 98275
 Attention: David DeSousa

Client Project ID: WSDOE, Former Circle K
 Sample Matrix: Water
 Analysis Method: EPA 418.1
 Units: mg/L (ppm)

Analyst: T. Rubalcava
 Extracted: Apr 21, 1995
 Analyzed: Apr 21, 1995
 Reported: Apr 27, 1995

HYDROCARBON QUALITY CONTROL DATA REPORT

ACCURACY ASSESSMENT Laboratory Control Sample

PRECISION ASSESSMENT Sample Duplicate

TRPH

TRPH

Spike Conc.
 Added: 4.2

Sample
 Number: B504330-02

Spike
 Result: 4.0

Original
 Result: 7.3

%
 Recovery: 95

Duplicate
 Result: 7.7

Upper Control
 Limit %: 136

Relative % Difference: Relative Percent Difference values are not reported at sample concentration levels less than ten times the Detection Limits.

Lower Control
 Limit %: 54

Maximum
 RPD: 28

NORTH CREEK ANALYTICAL Inc.

% Recovery: $\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$

Relative % Difference: $\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$

Shannon Stowell
 Shannon Stowell
 Project Manager

504330.GLA <6>

Glacier Environmental
 12521 Evergreen Drive, #A
 Mukilteo, WA 98275
 Attention: David DeSousa

Client Project ID: WSDOE, Former Circle K
 Sample Matrix: Water
 Analysis Method: EPA 413.2 (I.R.)
 Units: mg/L (ppm)

Analyst: T. Rubalcava
 Extracted: Apr 21, 1995
 Analyzed: Apr 21, 1995
 Reported: Apr 27, 1995

HYDROCARBON QUALITY CONTROL DATA REPORT

ACCURACY ASSESSMENT Laboratory Control Sample

Oil and Grease

Spike Conc. Added: 4.2

Spike Result: 4.0

% Recovery: 95

Upper Control Limit %: 136

Lower Control Limit %: 54

PRECISION ASSESSMENT Sample Duplicate

Oil and Grease

Sample Number: B504330-02

Original Result: 8.7

Duplicate Result: 8.0

Relative % Difference: 7

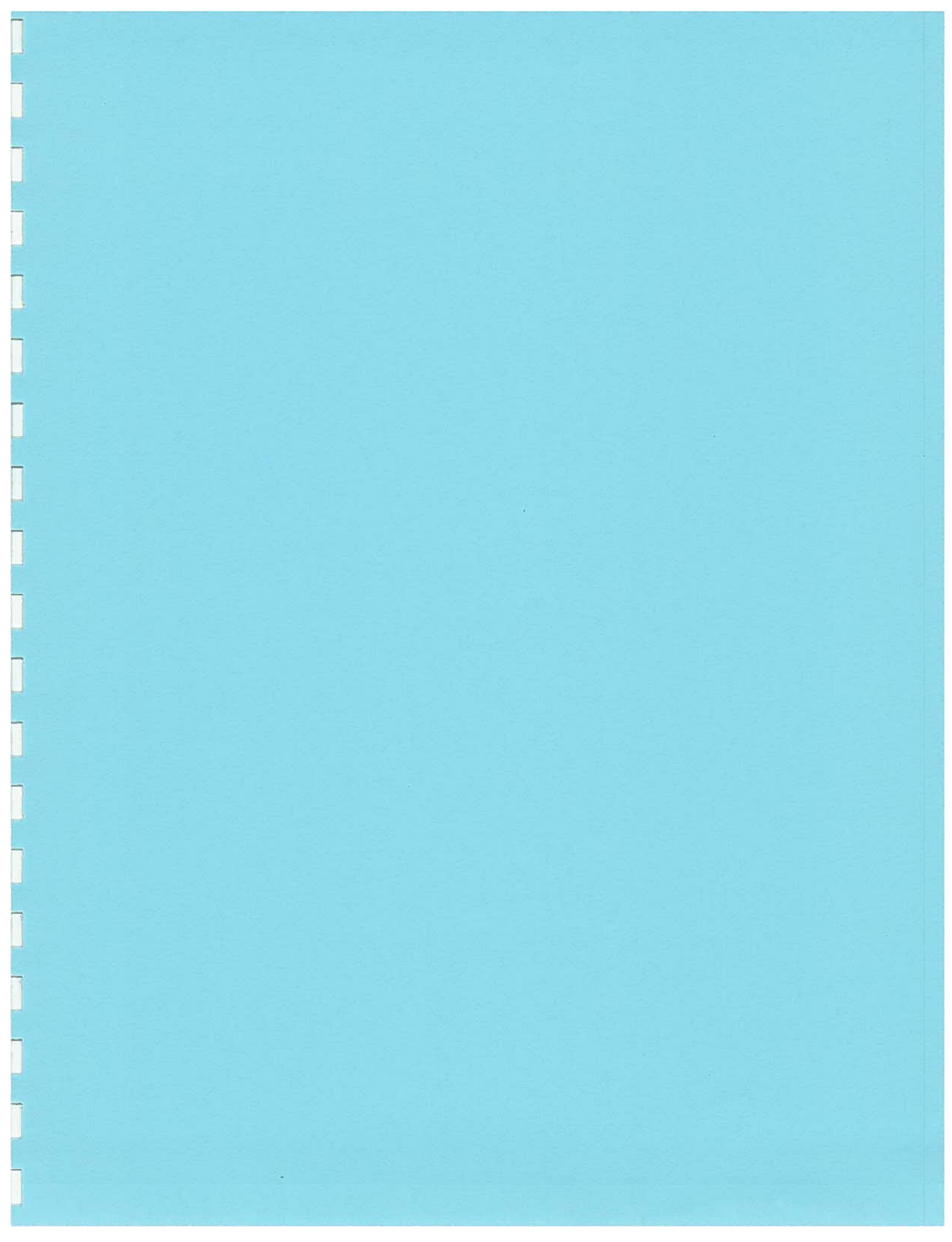
Maximum RPD: 28

NORTH CREEK ANALYTICAL Inc.

$$\% \text{ Recovery} = \frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$$

$$\text{Relative \% Difference} = \frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$$

Shannon Stowell
 Shannon Stowell
 Project Manager





Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLIENT: GLACIER ENVIRONMENTAL SERVICES DATE: 7/5/95
12521 EVERGREEN DR., SUITE A CCIL JOB #: 506060
MUKILTEO, WA 98275 CCIL SAMPLE #: 1
DATE RECEIVED: 6/27/95
WDOE ACCREDITATION #: C142

CLIENT CONTACT: MIKE HOLZSCHUH

CLIENT PROJECT ID: CIRCLE K DOE 92-015
CLIENT SAMPLE ID: EFF-1 6/23/95 1230

DATA RESULTS

Table with 7 columns: ANALYTE, METHOD, RESULTS*, UNITS**, ACTION LEVEL***, ANALYSIS DATE, ANALYSIS BY. Rows include BENZENE, TOLUENE, ETHYLBENZENE, and XYLENES.

* "ND" INDICATES ANALYTE NOT DETECTED ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: [Signature]



Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLIENT: **GLACIER ENVIRONMENTAL SERVICES** DATE: 7/5/95
 12521 EVERGREEN DR., SUITE A CCIL JOB #: 508080
 MUKILTEO, WA 98275 CCIL SAMPLE #: 2
 DATE RECEIVED: 6/27/95
 WDOE ACCREDITATION #: C142

CLIENT CONTACT: MIKE HOLZSCHUH

CLIENT PROJECT ID: CIRCLE K DOE 92-015
 CLIENT SAMPLE ID: EFF-1 6/23/95 1230

DATA RESULTS

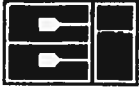
ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
NON-POLAR FOG	WTPH-418.1	ND(<1000)	UG/L	1000 UG/L	7/5/95	SJB

* "ND" INDICATES ANALYTE NOT DETECTED ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: CRB



Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLIENT: GLACIER ENVIRONMENTAL SERVICES
12521 EVERGREEN DR., SUITE A
MUKILTEO, WA 98275

DATE: 7/5/95
CCIL JOB #: 506060

DATE RECEIVED: 6/27/95
WDOE ACCREDITATION #: C142

CLIENT CONTACT: MIKE HOLZSCHUH

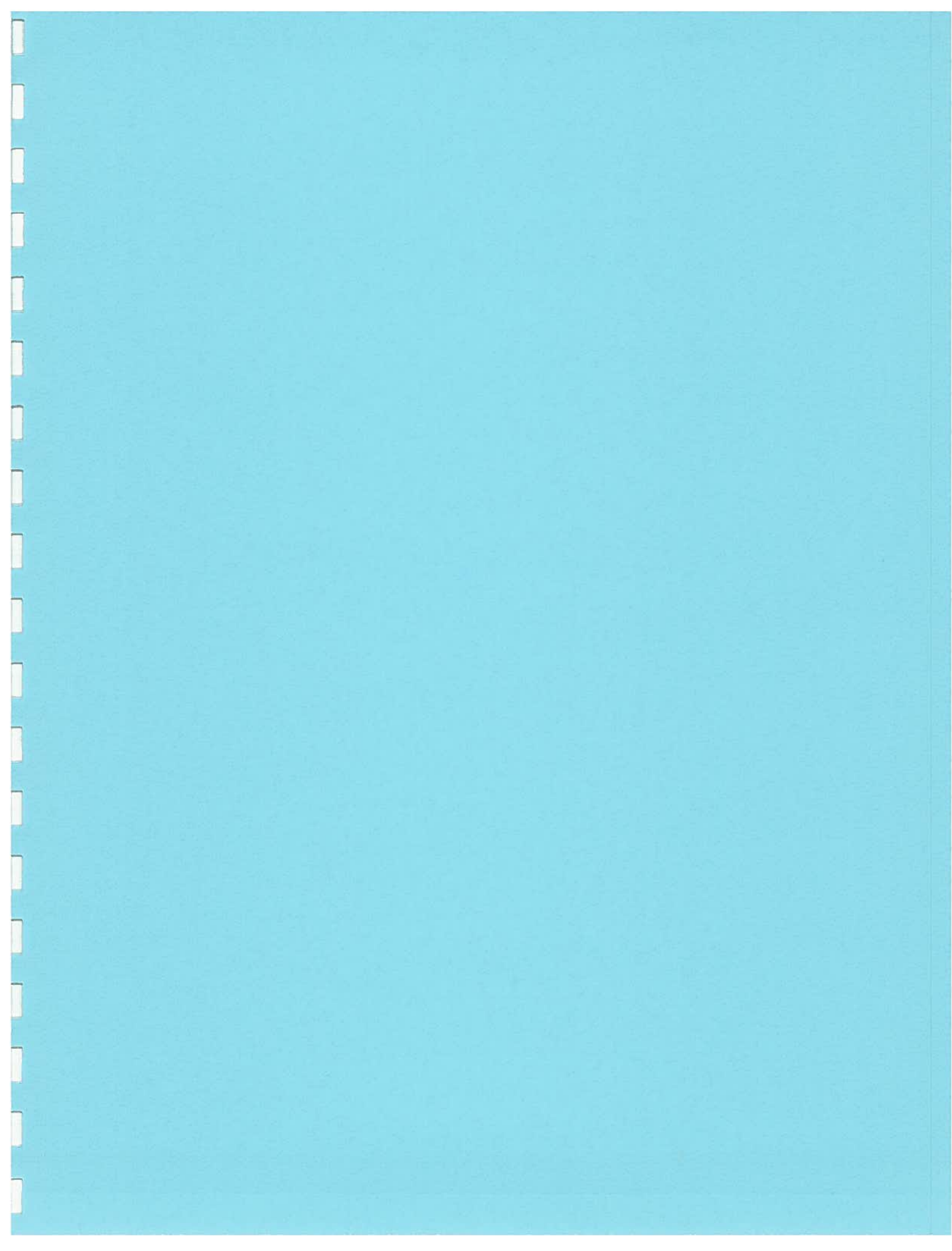
CLIENT PROJECT ID: CIRCLE K DOE 92-015

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV
506060-1	EPA-8020	TFT	85

APPROVED BY: *CRP*





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GLACIER - MUKILTEO

February 28, 1996

Curt Lightle
Glacier Environmental Services
12521 Evergreen Dr.
Mukilteo, WA 98275

Re: Analytical Data for Project 92-015
Laboratory Reference No. 9602-065

Dear Curt:

Enclosed are the results of the analyses, and associated quality control data, of samples submitted on February 22, 1996.

The standard policy of OnSite Environmental Inc., is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

Karl P. Hornyk
Project Chemist

Enclosures

Date of Report: February 28, 1996
Samples Submitted: February 22, 1996
Lab Traveler: 02-065
Project: 92-015

EPA 602 & WTPH-G

Date Extracted: 2-22-96
Date Analyzed: 2-22-96

Matrix: Water
Units: ug/L (ppb)

Lab ID	02-065-1	
Client ID	Eff-2G	Method PQL
Dilution Factor	1	
Benzene	5.5	1.00
Toluene	ND	1.00
Ethyl Benzene	ND	1.00
m,p-Xylene	ND	1.00
o-Xylene	ND	1.00
TPH-Gas	ND	100
4-BFB		
Surrogate Recovery	87%	

Note: Sample PQL(practical quantitation limit)= Method PQL x dilution factor

Date of Report: February 28, 1996
Samples Submitted: February 22, 1996
Lab Traveler: 02-065
Project: 92-015

**EPA 602 & WTPH-G
QUALITY CONTROL**

Date Extracted: 2-22-96

Date Analyzed: 2-22-96

Matrix: Water

Units: ug/L (ppb)

Lab ID	MB0222W1	02-061-1	02-061-1	
	Blank	Original	Duplicate	RPD
Dilution Factor	1	1	1	
Benzene	ND	ND	ND	NA
Toluene	ND	ND	ND	NA
Ethyl Benzene	ND	ND	ND	NA
m,p-Xylene	ND	ND	ND	NA
o-Xylene	ND	ND	ND	NA
TPH-Gas	ND	ND	ND	NA
4-BFB				
Surrogate Recovery	83%	86%	87%	

Date of Report: February 28, 1996
 Samples Submitted: February 22, 1996
 Lab Traveler: 02-065
 Project: 92-015

**EPA 602 & WTPH-G
 QUALITY CONTROL**

Date Extracted: 2-22-96
 Date Analyzed: 2-22-96

Matrix: Water
 Units: ug/L (ppb)

Lab ID	02-061-1		02-061-1		
spiked @ 50 ppb	MS	Percent	MSD	Percent	
Dilution Factor	1	Recovery	1	Recovery	RPD
Benzene	50.8	102%	49.9	100%	1.8
Toluene	48.6	97%	47.8	96%	1.7
Ethyl Benzene	48.5	97%	47.9	96%	1.2
m,p-Xylene	50.3	101%	49.7	99%	1.2
o-Xylene	47.7	95%	46.9	94%	1.7
4-BFB					
Surrogate Recovery	92%		85%		

Date of Report: February 28, 1996
Samples Submitted: February 22, 1996
Lab Traveler: 02-065
Project: 92-015

WTPH 418.1

Date Extracted: 02-23-96

Date Analyzed: 02-23-96

Matrix: Water

Units: mg/L (ppm)

Client ID	Lab ID	Dilution Factor	Total Petroleum Hydrocarbons	Flags	PQL
EFF - 2F	02-065-2	0.10	ND		0.50

Date of Report: February 28, 1996
Samples Submitted: February 22, 1996
Lab Traveler: 02-065
Project: 92-015

WTPH 418.1
METHOD BLANK QUALITY CONTROL

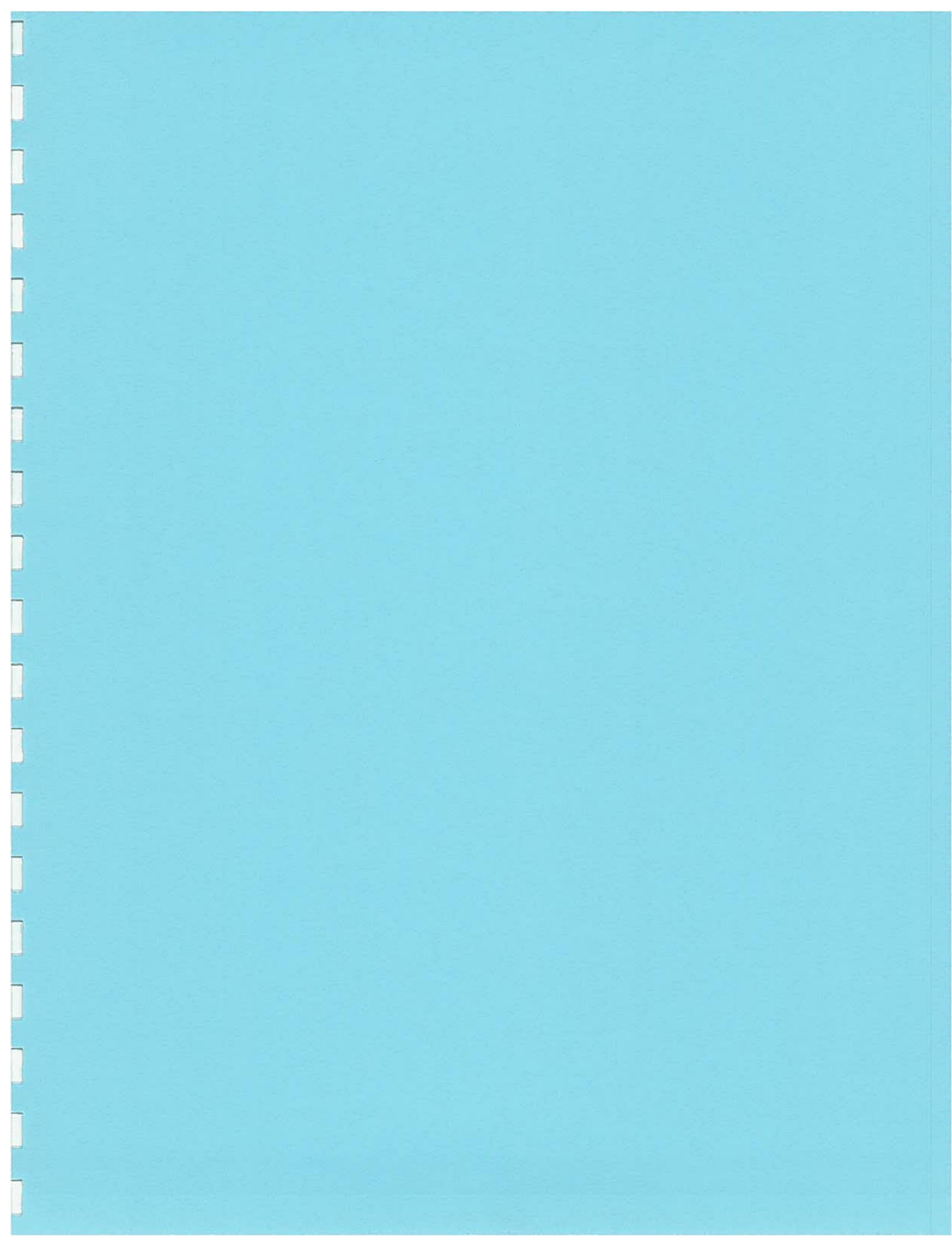
Date Extracted: 2-23-96
Date Analyzed: 2-23-96

Matrix: Water
Units: mg/L (ppm)

Lab ID: MB0223W1

	Dilution Factor	Total Petroleum Hydrocarbons	Flags	PQL
Method Blank	0.10	ND		0.50

Insufficient sample quantity for duplicate analysis.





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CERTIFICATE OF ANALYSIS

CLIENT: GLACIER ENVIRONMENTAL
12521 EVERGREEN DR, SUITE A
MUKILTEO, WA 98275

DATE: 5/29/96
CCIL JOB #: 605049
CCIL SAMPLE #: 1
DATE RECEIVED: 5/20/96
WDOE ACCREDITATION #: C142

CLIENT CONTACT: STEVE MILES

CLIENT PROJECT ID: CIRCLE K DOE 92015
CLIENT SAMPLE ID: INF-3 5/17/96

DATA RESULTS

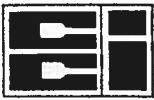
ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
BENZENE	EPA-8020	6800	UG/L	5 UG/L	5/24/96	SAS
TOLUENE	EPA-8020	3600	UG/L	40 UG/L	5/24/96	SAS
ETHYLBENZENE	EPA-8020	480	UG/L	30 UG/L	5/24/96	SAS
XYLENES	EPA-8020	3000	UG/L	20 UG/L	5/24/96	SAS

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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APPROVED BY: 



CERTIFICATE OF ANALYSIS

CLIENT: GLACIER ENVIRONMENTAL
12521 EVERGREEN DR, SUITE A
MUKILTEO, WA 98275

DATE: 5/29/96
CCIL JOB #: 605049
CCIL SAMPLE #: 2
DATE RECEIVED: 5/20/96
WDOE ACCREDITATION #: C142

CLIENT CONTACT: STEVE MILES

CLIENT PROJECT ID: CIRCLE K DOE 92015
CLIENT SAMPLE ID: EFF-3 5/17/96

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION	ANALYSIS	ANALYSIS
				LEVEL***	DATE	BY
BENZENE	EPA-8020	ND(<1)	UG/L	5 UG/L	5/24/96	SAS
TOLUENE	EPA-8020	ND(<1)	UG/L	40 UG/L	5/24/96	SAS
ETHYLBENZENE	EPA-8020	ND(<1)	UG/L	30 UG/L	5/24/96	SAS
XYLENES	EPA-8020	ND(<3)	UG/L	20 UG/L	5/24/96	SAS

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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APPROVED BY: CRF



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CERTIFICATE OF ANALYSIS

CLIENT: GLACIER ENVIRONMENTAL
12521 EVERGREEN DR, SUITE A
MUKILTEO, WA 98275

DATE: 5/29/96
CCIL JOB #: 605049

DATE RECEIVED: 5/20/96
WDOE ACCREDITATION #: C142

CLIENT CONTACT: STEVE MILES

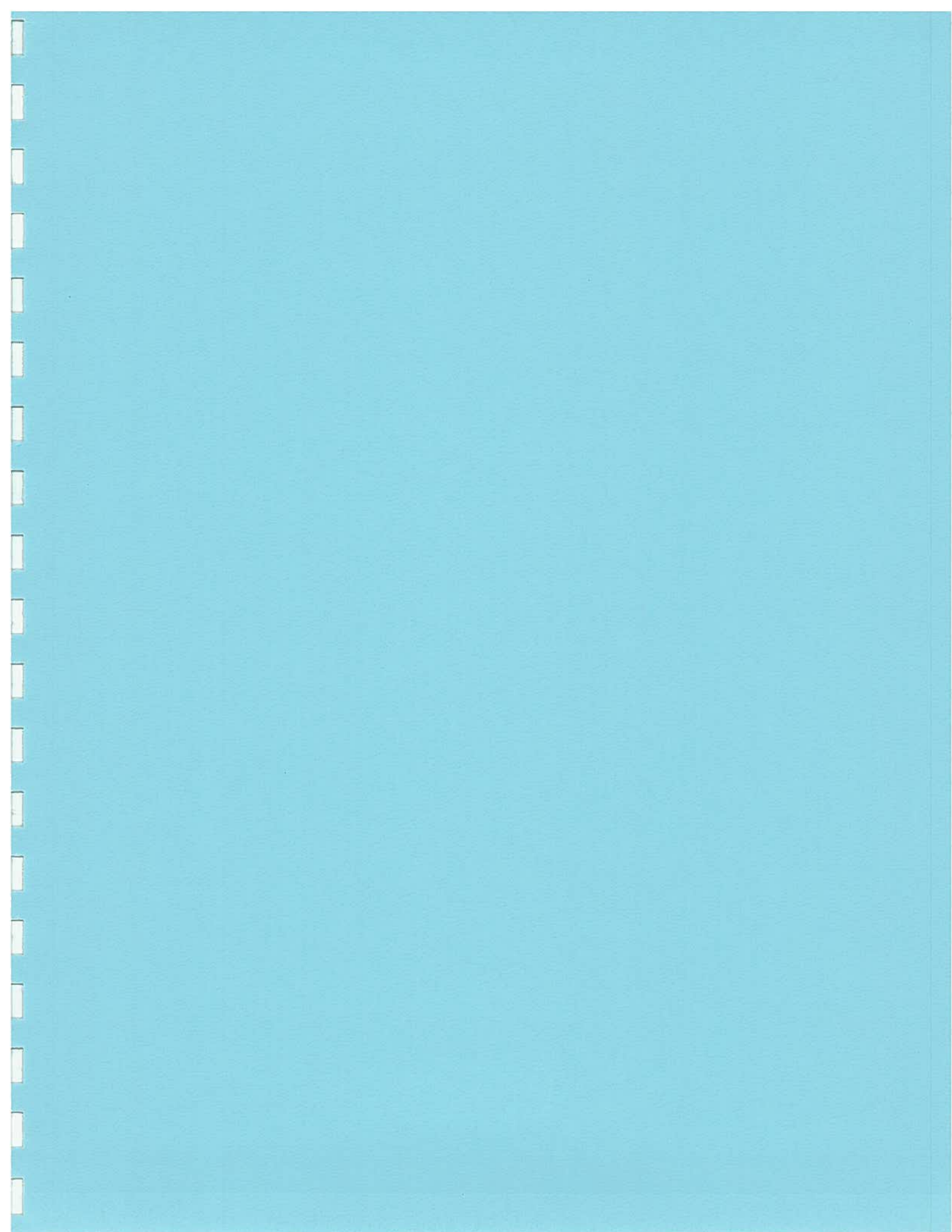
CLIENT PROJECT ID: CIRCLE K DOE 92015

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV
605049-01	EPA-8020	TFT	96
605049-02	EPA-8020	TFT	119

APPROVED BY: 





NORTH CREEK ANALYTICAL

Environmental Laboratory Services

Offices:

- BOTHELL ■ (206) 481-9200 ■ FAX 485-2992
- SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
- PORTLAND ■ (503) 643-9200 ■ FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

Glacier Environmental
 2521 Evergreen Dr., Ste A
 Mukilteo, WA 98275

Project: Circle K - DOE
 Project Number: 92015
 Project Manager: Curt Lightle

Sampled: 9/18/96
 Received: 9/18/96
 Reported: 9/24/96

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
EFF-3	B609292-01	Water	9/18/96

North Creek Analytical, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document.
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Jack R. Cooper
 Jack R. Cooper, Project Manager



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Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

Glacier Environmental 12521 Evergreen Dr., Ste A Mukilteo, WA 98275	Project: Circle K - DOE Project Number: 92015 Project Manager: Curt Lightle	Sampled: 9/18/96 Received: 9/18/96 Reported: 9/24/96
---	---	--

Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
				<u>B609292-01</u>				
<u>EFF-3</u>							<u>Water</u>	
Gasoline Range Hydrocarbons	0960516	9/20/96	9/20/96		50.0	ND	ug/l (ppb)	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		85.0	%	
Surrogate: 4-BFB (PID)	"	"	"	53.0-136		81.3	"	

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*Refer to end of report for text of notes.


 Jack R. Cooper, Project Manager



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Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

Glacier Environmental
12521 Evergreen Dr., Ste A
Mukilteo, WA 98275

Project: Circle K - DOE
Project Number: 92015
Project Manager: Curt Lightie

Sampled: 9/18/96
Received: 9/18/96
Reported: 9/24/96

Heavy Oil Range Hydrocarbons by WTPH-418.1

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
<u>EFF-3</u> Petroleum Oil Hydrocarbons	0960448	9/19/96	9/19/96	<u>B609292-01</u> WTPH-418.1	1.00	ND	<u>Water</u> mg/l (ppm)	

Jack R. Cooper
Jack R Cooper, Project Manager

Glacier Environmental 12521 Evergreen Dr., Ste A Mukilteo, WA 98275	Project: Circle K - DOE Project Number: 92015 Project Manager: Curt Lightle	Sampled: 9/18/96 Received: 9/18/96 Reported: 9/24/96
---	---	--

Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA-8020A

Quality Control

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0960516		Date Prepared: 9/20/96							
Blank		0960516-BLK1			Water				
Gasoline Range Hydrocarbons	9/20/96			ND	ug/l (ppb)	50.0			
Benzene	"			ND	"	0.500			
Toluene	"			ND	"	0.500			
Ethylbenzene	"			ND	"	0.500			
Xylenes (total)	"			ND	"	1.00			
Surrogate: 4-BFB (FID)	"	16.0		12.8	"	50.0-150	80.0		
Surrogate: 4-BFB (PID)	"	16.0		12.8	"	53.0-136	80.0		
Blank Spike		0960516-BS1			Water				
Gasoline Range Hydrocarbons	9/20/96	500		500	ug/l (ppb)	63.0-127	100		
Surrogate: 4-BFB (FID)	"	16.0		17.8	"	50.0-150	111		
Duplicate		0960516-DUP1		B609159-01	Water				
Gasoline Range Hydrocarbons	9/20/96		ND	ND	ug/l (ppb)			45.0	
Surrogate: 4-BFB (FID)	"	16.0		14.1	"	50.0-150	88.1		
Matrix Spike		0960516-MS1		B609205-01	Water				
Benzene	9/20/96	10.0	84.2	94.0	ug/l (ppb)	62.0-126	98.0		
Toluene	"	10.0	ND	8.78	"	72.0-120	87.8		
Ethylbenzene	"	10.0	ND	9.00	"	69.0-129	90.0		
Xylenes (total)	"	30.0	ND	28.1	"	73.0-126	93.7		
Surrogate: 4-BFB (PID)	"	16.0		14.2	"	53.0-136	88.7		
Matrix Spike Dup		0960516-MSD1		B609205-01	Water				
Benzene	9/20/96	10.0	84.2	93.0	ug/l (ppb)	62.0-126	88.0	13.5	10.8
Toluene	"	10.0	ND	8.92	"	72.0-120	89.2	8.70	1.58
Ethylbenzene	"	10.0	ND	8.96	"	69.0-129	89.6	13.6	0.445
Xylenes (total)	"	30.0	ND	28.6	"	73.0-126	95.3	16.3	1.69
Surrogate: 4-BFB (PID)	"	16.0		13.8	"	53.0-136	86.3		



NORTH CREEK ANALYTICAL

Environmental Laboratory Services

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 PORTLAND ■ (503) 843-9200 ■ FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

Glacier Environmental 12521 Evergreen Dr., Ste A Mukilteo, WA 98275	Project: Circle K - DOE Project Number: 92015 Project Manager: Curt Lightle	Sampled: 9/18/96 Received: 9/18/96 Reported: 9/24/96
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**Heavy Oil Range Hydrocarbons by WTPH-4181
 Quality Control**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0960448	Date Prepared: 9/19/96									
Blank	0960448-BLK1									
Petroleum Oil Hydrocarbons	9/19/96			ND	Water mg/l (ppm)	1.00				
Blank Spike	0960448-BS1									
Petroleum Oil Hydrocarbons	9/19/96	5.00		3.61	Water mg/l (ppm)	68.0-117	72.2			
Blank Spike Dup	0960448-BSD1									
Petroleum Oil Hydrocarbons	9/19/96	5.00		3.61	Water mg/l (ppm)	68.0-117	72.2	53.0	0	
Duplicate	0960448-DUP1 B609292-01									
Petroleum Oil Hydrocarbons	9/19/96		ND	ND	Water mg/l (ppm)			53.0		1

Jack R. Cooper
 Jack R. Cooper, Project Manager



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Environmental Laboratory Services

Offices:

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PORTLAND ■ (503) 643-9200 ■ FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

Glacier Environmental 12521 Evergreen Dr., Ste A Mukilteo, WA 98275	Project: Circle K - DOE Project Number: 92015 Project Manager: Curt Lightle	Sampled: 9/18/96 Received: 9/18/96 Reported: 9/24/96
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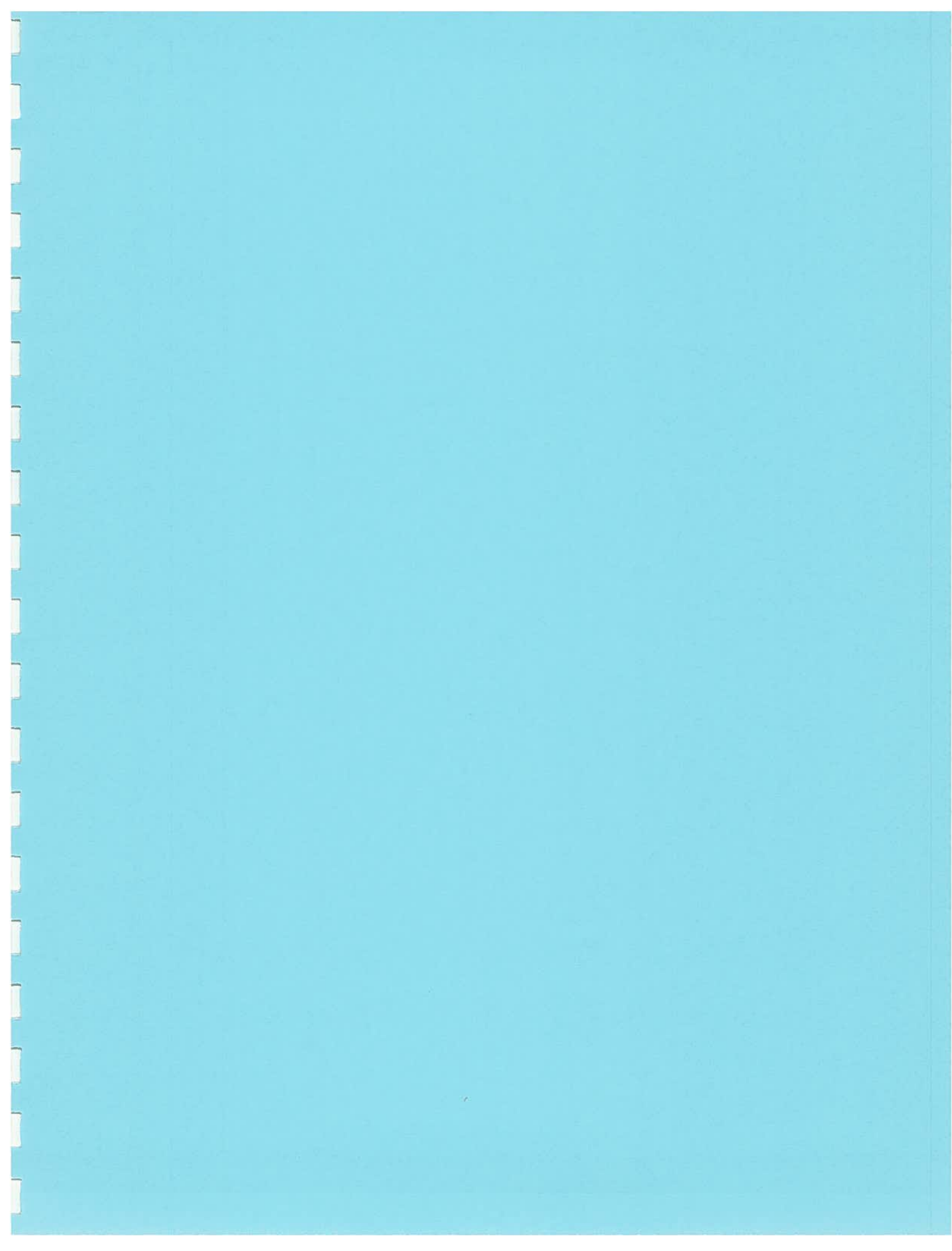
Notes

#	Note
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1 RPD values are not reported at sample concentrations less than 10 times the reporting limit.

North Creek Analytical, Inc.


 Jack R. Cooper, Project Manager





NORTH CREEK ANALYTICAL

Environmental Laboratory Services

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 SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
 PORTLAND ■ (503) 643-9200 ■ FAX 644-2202

Glacier Environmental 12521 Evergreen Dr., Ste A Mukilteo, WA 98275	Project: Not Provided Project Number: 92015 Project Manager: Phil Stelflug	Sampled: 7/11/97 Received: 7/14/97 Reported: 7/22/97 14:26
---	--	--

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
EFF-6	B707280-01	Water	7/11/97
EFF-6V	B707280-02	Water	7/11/97

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*The results in this report apply to the samples analyzed in accordance with the chain of custody document.
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 Kirk Gendron, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132



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Environmental Laboratory Services

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 SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
 PORTLAND ■ (503) 643-9200 ■ FAX 644-2202

Glacier Environmental 12521 Evergreen Dr., Ste A Mukilteo, WA 98275	Project: Not Provided Project Number: 92015 Project Manager: Phil Stelflug	Sampled: 7/11/97 Received: 7/14/97 Reported: 7/22/97 14:26
---	--	--

**Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A
 North Creek Analytical - Bothell**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
EFF-6V				B707280-02			Water	
Gasoline Range Hydrocarbons	0770630	7/21/97	7/21/97		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		81.3	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		83.1	"	

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.


 Kirk Gendron, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132



NORTH CREEK ANALYTICAL

Environmental Laboratory Services

BOTHELL ■ (425) 481-9200 ■ FAX 485-2992
 SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
 PORTLAND ■ (503) 643-9200 ■ FAX 644-2202

Glacier Environmental 12521 Evergreen Dr., Ste A Mukilteo, WA 98275	Project: Not Provided Project Number: 92015 Project Manager: Phil Stelflug	Sampled: 7/11/97 Received: 7/14/97 Reported: 7/22/97 14:26
---	--	--

Heavy Oil Range Hydrocarbons by WTPH-418.1 North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
<u>EFF-6</u> Petroleum Oil Hydrocarbons	0770483	7/16/97	7/16/97	<u>B707280-01</u> WTPH-418.1	1.00	ND	<u>Water</u> mg/l	

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*


Kirk Gendron, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132



NORTH CREEK ANALYTICAL

Environmental Laboratory Services

BOTHELL ■ (425) 481-9200 ■ FAX 485-2992
 SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
 PORTLAND ■ (503) 643-9200 ■ FAX 644-2202

Glacier Environmental 12521 Evergreen Dr., Ste A Mukilteo, WA 98275	Project: Not Provided Project Number: 92015 Project Manager: Phil Stelflug	Sampled: 7/11/97 Received: 7/14/97 Reported: 7/22/97 14:26
---	--	--

Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A/Quality Control North Creek Analytical - Bothell

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0770630		Date Prepared: 7/21/97			Extraction Method: EPA 5030					
Blank		0770630-BLK1								
Gasoline Range Hydrocarbons	7/21/97			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB (FID)	"	48.0		43.8	"	50.0-150	91.2			
Surrogate: 4-BFB (PID)	"	48.0		60.6	"	50.0-150	126			
LCS		0770630-BS1								
Gasoline Range Hydrocarbons	7/21/97	500		465	ug/l	80.0-120	93.0			
Surrogate: 4-BFB (FID)	"	48.0		47.4	"	50.0-150	98.8			
Duplicate		0770630-DUP1		B707290-08						
Gasoline Range Hydrocarbons	7/21/97		6350	6180	ug/l			25.0	2.71	
Surrogate: 4-BFB (FID)	"	48.0		35.7	"	50.0-150	74.4			
Duplicate		0770630-DUP2		B707218-06						
Gasoline Range Hydrocarbons	7/21/97		ND	ND	ug/l			25.0		
Surrogate: 4-BFB (FID)	"	48.0		35.0	"	50.0-150	72.9			
Matrix Spike		0770630-MS1		B707280-02						
Benzene	7/21/97	10.0	ND	10.9	ug/l	70.0-130	109			
Toluene	"	10.0	ND	10.9	"	70.0-130	109			
Ethylbenzene	"	10.0	ND	10.7	"	70.0-130	107			
Xylenes (total)	"	30.0	ND	31.2	"	70.0-130	104			
Surrogate: 4-BFB (PID)	"	48.0		37.2	"	50.0-150	77.5			
Matrix Spike Dup		0770630-MSD1		B707280-02						
Benzene	7/21/97	10.0	ND	11.2	ug/l	70.0-130	112	15.0	2.71	
Toluene	"	10.0	ND	11.4	"	70.0-130	114	15.0	4.48	
Ethylbenzene	"	10.0	ND	10.7	"	70.0-130	107	15.0	0	
Xylenes (total)	"	30.0	ND	31.6	"	70.0-130	105	15.0	0.957	
Surrogate: 4-BFB (PID)	"	48.0		37.3	"	50.0-150	77.7			

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.


 Kirk Gendron, Project Manager

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 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
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NORTH CREEK ANALYTICAL

Environmental Laboratory Services

BOTHELL ■ (425) 481-9200 ■ FAX 485-2992
 SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
 PORTLAND ■ (503) 643-9200 ■ FAX 644-2202

Glacier Environmental 12521 Evergreen Dr., Ste A Mukilteo, WA 98275	Project: Not Provided Project Number: 92015 Project Manager: Phil Stelflug	Sampled: 7/11/97 Received: 7/14/97 Reported: 7/22/97 14:26
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Heavy Oil Range Hydrocarbons by WTPH-418.1/Quality Control North Creek Analytical - Bothell

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0770483	Date Prepared: 7/16/97			Extraction Method: TPH 418.1						
Blank	0770483-BLK1									
Petroleum Oil Hydrocarbons	7/16/97			ND	mg/l	1.00				
LCS	0770483-BS1									
Petroleum Oil Hydrocarbons	7/16/97	5.00		4.52	mg/l	62.0-121	90.4			
LCS Dup	0770483-BSD1									
Petroleum Oil Hydrocarbons	7/16/97	5.00		4.22	mg/l	62.0-121	84.4	57.0	6.86	
Duplicate	0770483-DUP1		B707287-01							
Petroleum Oil Hydrocarbons	7/16/97		ND	ND	mg/l			57.0		


 Kirk Gendron, Project Manager



NORTH CREEK ANALYTICAL

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Glacier Environmental
12521 Evergreen Dr., Ste A
Mukilteo, WA 98275

Project: Not Provided
Project Number: 92015
Project Manager: Phil Stelflug

Sampled: 7/11/97
Received: 7/14/97
Reported: 7/22/97 14:26

Notes and Definitions

#	Note
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DET	Analyte DETECTED
-----	------------------

ND	Analyte NOT DETECTED at or above the reporting limit
----	--


NR	Not Reported
----	--------------

dry	Sample results reported on a dry weight basis
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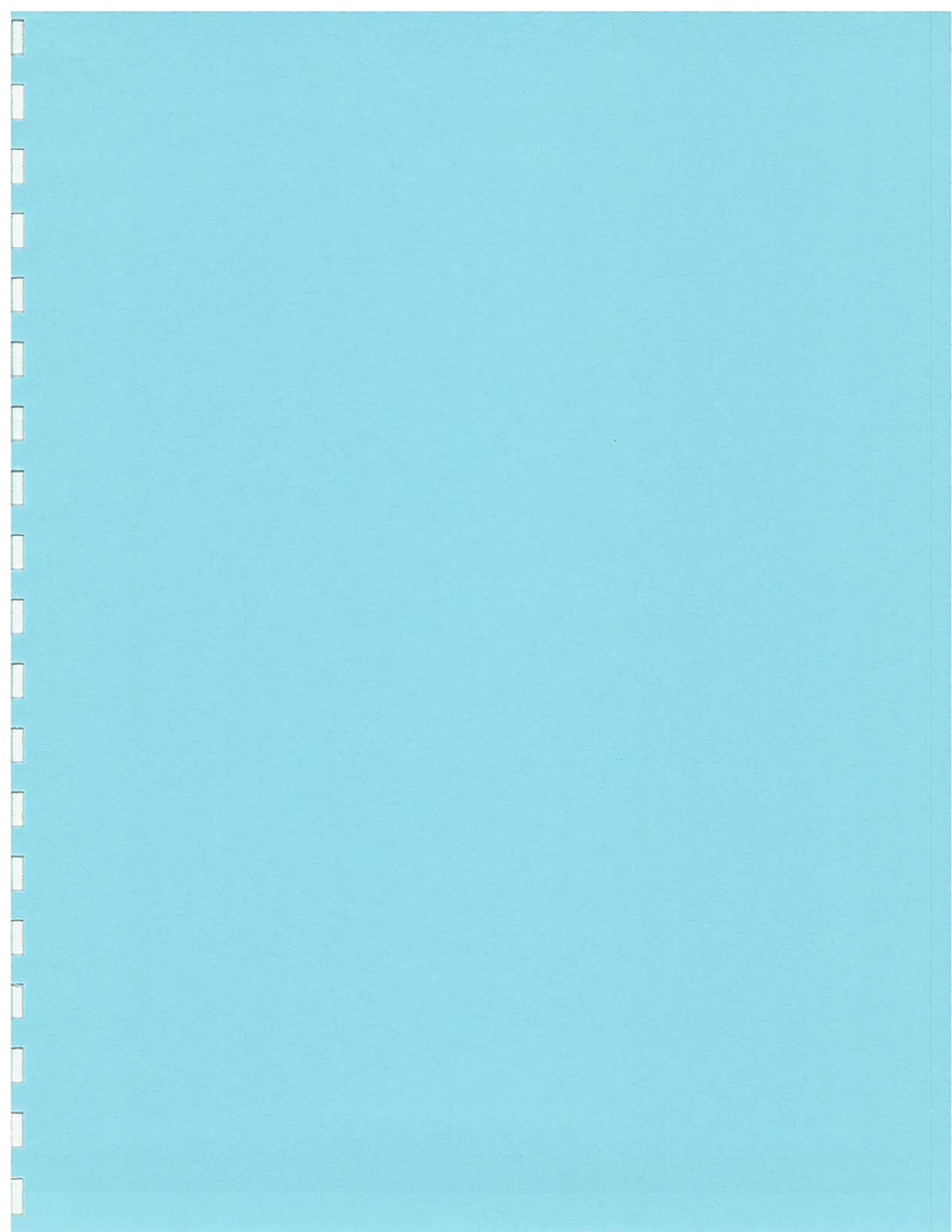
Recov.	Recovery
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RPD	Relative Percent Difference
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North Creek Analytical, Inc.


Kirk Gendron, Project Manager

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East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132





Glacier Environmental 12521 Evergreen Dr., Ste A Mukilton, WA 98275	Project: Circle K - DOE Project Number: 92015 Project Manager: Curt Lightle	Sampled: 12/30/97 Received: 1/2/98 Reported: 1/9/98 13:43
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ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
EFF 123097	B801012-01	Water	12/30/97

North Creek Analytical, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document.
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Kirk Gendron, Project Manager

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East 11115 Montgomery, Suite B, Spokane, WA 99208-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132


Glacier Environmental 12521 Evergreen Dr., Ste A Mukilteo, WA 98275	Project: Circle K - DOE Project Number: 92015 Project Manager: Curt Lightle	Sampled: 12/30/97 Received: 1/2/98 Reported: 1/9/98 13:43
---	---	---

**Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A
North Creek Analytical - Bothell**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>EFF 123097</u>				<u>B801012-01</u>			<u>Water</u>	
Gasoline Range Hydrocarbons	0180054	1/5/98	1/5/98		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		79.0	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		81.7	"	

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.

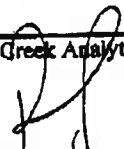

Kirk Gendron, Project Manager

Glacier Environmental 12521 Evergreen Dr., Ste A Mukilteo, WA 98275	Project: Circle K - DOE Project Number: 92015 Project Manager: Curt Lightle	Sampled: 12/30/97 Received: 1/2/98 Reported: 1/9/98 13:43
---	---	---

**Conventional Chemistry Parameters by APHA/EPA Methods
North Creek Analytical - Bothell**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
<u>EFF 123097</u> Petroleum Oil Hydrocarbons	0180113	1/7/98	1/7/98	<u>8801012-01</u> EPA 418.1	1.00	17.2	<u>Water</u> mg/l	

North Creek Analytical, Inc.


Kirk Gendron, Project Manager

**Refer to end of report for text of notes and definitions.*

Glacier Environmental
12521 Evergreen Dr., Ste A
Mukilteo, WA 98275

Project: Circle K - DOE
Project Number: 92015
Project Manager: Curt Lightle

Sampled: 12/30/97
Received: 1/2/98
Reported: 1/9/98 13:43

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0180054										
Blank										
Date Prepared: 1/5/98										
Extraction Method: EPA 5030 (P/T)										
0180054-BLK1										
Gasoline Range Hydrocarbons	1/5/98			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB (FID)	"	48.0		38.9	"	50.0-150	81.0			
Surrogate: 4-BFB (PID)	"	48.0		39.3	"	50.0-150	81.9			
LCS										
0180054-BS1										
Gasoline Range Hydrocarbons	1/5/98	500		544	ug/l	75.0-125	109			
Surrogate: 4-BFB (FID)	"	48.0		41.3	"	50.0-150	86.0			
Duplicate										
0180054-DUP1 B801017-01										
Gasoline Range Hydrocarbons	1/6/98		560	536	ug/l			25.0	4.38	
Surrogate: 4-BFB (FID)	"	48.0		41.9	"	50.0-150	87.3			
Matrix Spike										
0180054-MS1 B801005-15										
Benzene	1/5/98	10.0	ND	9.59	ug/l	70.0-130	95.9			
Toluene	"	10.0	ND	9.32	"	70.0-130	93.2			
Ethylbenzene	"	10.0	ND	9.02	"	70.0-130	90.2			
Xylenes (total)	"	30.0	ND	26.3	"	70.0-130	87.7			
Surrogate: 4-BFB (PID)	"	48.0		39.3	"	50.0-150	81.9			
Matrix Spike Dup										
0180054-MSD1 B801005-15										
Benzene	1/5/98	10.0	ND	9.48	ug/l	70.0-130	94.8	15.0	1.15	
Toluene	"	10.0	ND	9.16	"	70.0-130	91.6	15.0	1.73	
Ethylbenzene	"	10.0	ND	8.89	"	70.0-130	88.9	15.0	1.45	
Xylenes (total)	"	30.0	ND	25.7	"	70.0-130	85.7	15.0	2.31	
Surrogate: 4-BFB (PID)	"	48.0		39.0	"	50.0-150	81.3			

North Creek Analytical, Inc.

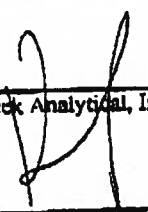
*Refer to end of report for text of notes and definitions.


Kirk Gendron, Project Manager

Glacier Environmental 12521 Evergreen Dr., Ste A Mukilteo, WA 98275	Project: Circle K - DOE Project Number: 92015 Project Manager: Curt Lightle	Sampled: 12/30/97 Received: 1/2/98 Reported: 1/9/98 13:43
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Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0180113		Date Prepared: 1/7/98		Extraction Method: TPH 418.1						
Blank Petroleum Oil Hydrocarbons	0180113-BLK1 1/7/98			ND	mg/l	1.00				
LCS Petroleum Oil Hydrocarbons	0180113-BS1 1/7/98	5.00		3.80	mg/l	61.0-121	76.0			
LCS Dup Petroleum Oil Hydrocarbons	0180113-BSD1 1/7/98	5.00		3.80	mg/l	61.0-121	76.0	57.0	0	
Duplicate Petroleum Oil Hydrocarbons	0180113-DUP1 1/7/98		B301043-02 ND	ND	mg/l			57.0		

North Creek Analytical, Inc.



Kirk Gendron, Project Manager

*Refer to end of report for text of notes and definitions.

Glacier Environmental
12521 Evergreen Dr., Ste A
Mukilteo, WA 98275

Project: Circle K - DOE
Project Number: 92015
Project Manager: Curt Lightle

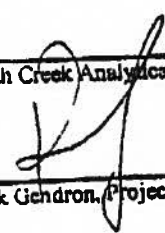
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Received: 1/2/98
Reported: 1/9/98 13:43

Notes and Definitions

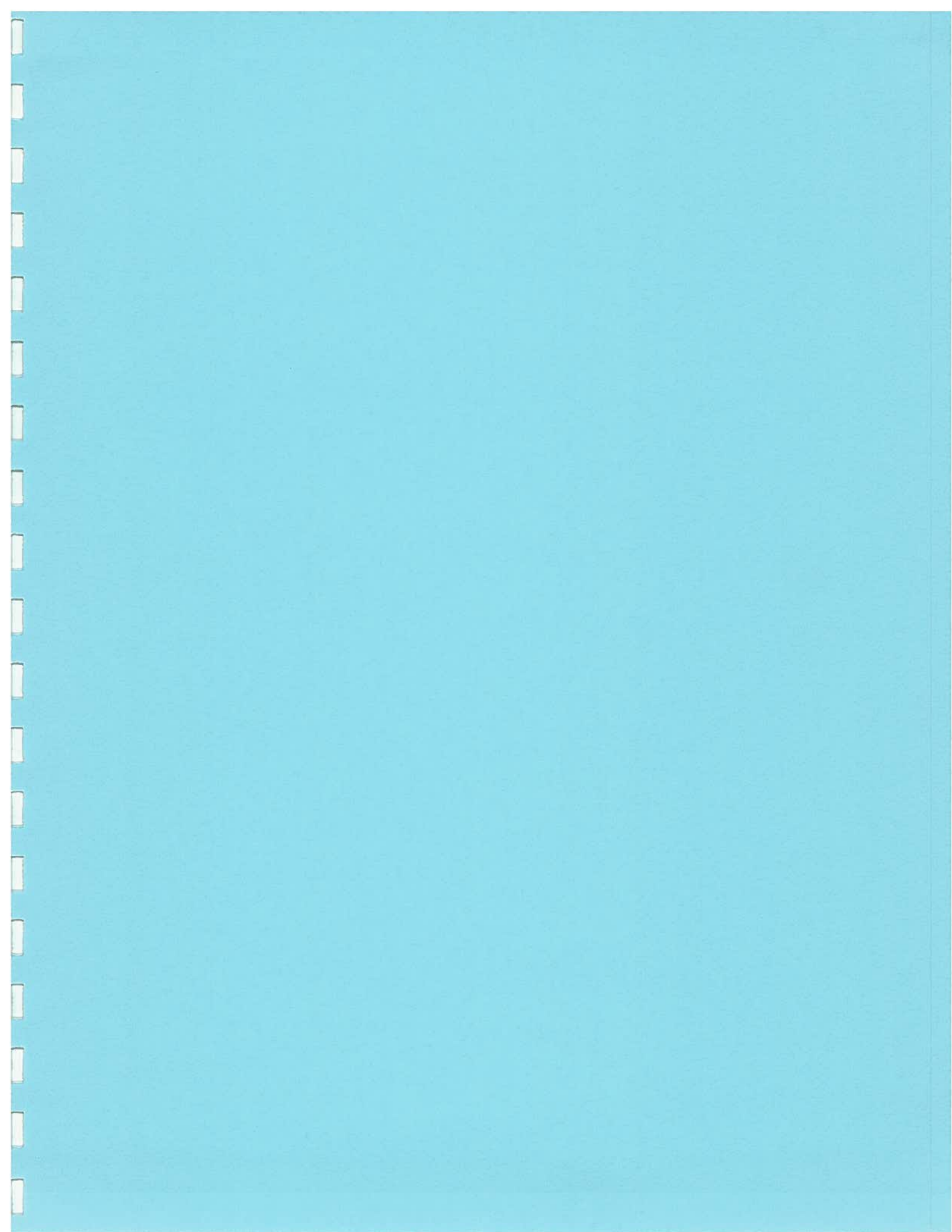
#	Note
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- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- Recov. Recovery
- RPD Relative Percent Difference

North Creek Analytical, Inc.



Kirk Gendron, Project Manager





NORTH CREEK ANALYTICAL

Environmental Laboratory Services

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Glacier Environmental 12521 Evergreen Dr., Ste A Mukilteo, WA 98275	Project: Circle K - DOE Project Number: 92015 Project Manager: Curt Lightle	Sampled: 2/10/98 Received: 2/13/98 Reported: 2/17/98 12:22
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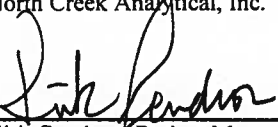
ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
INF-21098	B802262-01	Water	2/10/98

RECEIVED
 FEB 19 1998
 GLACIER MUKILTEO

North Creek Analytical, Inc.

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 Kirk Gendron, Project Manager

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Glacier Environmental 12521 Evergreen Dr., Ste A Mukilteo, WA 98275	Project: Circle K - DOE Project Number: 92015 Project Manager: Curt Lightle	Sampled: 2/10/98 Received: 2/13/98 Reported: 2/17/98 12:22
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**Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A
 North Creek Analytical - Bothell**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
INF-21098				B802262-01			Water	
Gasoline Range Hydrocarbons	0280399	2/16/98	2/17/98		2500	16600	ug/l	
Benzene	"	"	"		25.0	3530	"	
Toluene	"	"	"		25.0	2080	"	
Ethylbenzene	"	"	"		25.0	381	"	
Xylenes (total)	"	"	"		50.0	2040	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		89.6	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		94.8	"	

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.



 Kirk Gendron, Project Manager

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Glacier Environmental 12521 Evergreen Dr., Ste A Mukilteo, WA 98275	Project: Circle K - DOE Project Number: 92015 Project Manager: Curt Lightle	Sampled: 2/10/98 Received: 2/13/98 Reported: 2/17/98 12:22
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**Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A/Quality Control
North Creek Analytical - Bothell**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0280399		Date Prepared: 2/16/98			Extraction Method: EPA 5030 (P/T)					
Blank		0280399-BLK1								
Gasoline Range Hydrocarbons	2/16/98			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB (FID)	"	48.0		45.0	"	50.0-150	93.8			
Surrogate: 4-BFB (PID)	"	48.0		45.8	"	50.0-150	95.4			
LCS		0280399-BS1								
Gasoline Range Hydrocarbons	2/16/98	500		550	ug/l	75.0-125	110			
Surrogate: 4-BFB (FID)	"	48.0		47.3	"	50.0-150	98.5			
Duplicate		0280399-DUP1		B802262-01						
Gasoline Range Hydrocarbons	2/16/98		16600	18800	ug/l			25.0	12.4	
Surrogate: 4-BFB (FID)	"	48.0		45.1	"	50.0-150	94.0			
Duplicate		0280399-DUP2		B802197-06						
Gasoline Range Hydrocarbons	2/17/98		311	266	ug/l			25.0	15.6	
Surrogate: 4-BFB (FID)	"	48.0		44.7	"	50.0-150	93.1			
Matrix Spike		0280399-MS1		B802197-07						
Benzene	2/16/98	10.0	ND	10.6	ug/l	70.0-130	106			
Toluene	"	10.0	ND	10.4	"	70.0-130	104			
Ethylbenzene	"	10.0	ND	10.3	"	70.0-130	103			
Xylenes (total)	"	30.0	ND	30.9	"	70.0-130	103			
Surrogate: 4-BFB (PID)	"	48.0		45.7	"	50.0-150	95.2			
Matrix Spike Dup		0280399-MSD1		B802197-07						
Benzene	2/16/98	10.0	ND	10.9	ug/l	70.0-130	109	15.0	2.79	
Toluene	"	10.0	ND	10.8	"	70.0-130	108	15.0	3.77	
Ethylbenzene	"	10.0	ND	10.4	"	70.0-130	104	15.0	0.966	
Xylenes (total)	"	30.0	ND	30.6	"	70.0-130	102	15.0	0.976	
Surrogate: 4-BFB (PID)	"	48.0		45.2	"	50.0-150	94.2			

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.

Kirk Gendron, Project Manager



Glacier Environmental 12521 Evergreen Dr., Ste A Mukilteo, WA 98275	Project: Circle K - DOE Project Number: 92015 Project Manager: Curt Lightle	Sampled: 2/10/98 Received: 2/13/98 Reported: 2/17/98 12:22
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Notes and Definitions

#	Note
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- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- Recov. Recovery
- RPD Relative Percent Difference

North Creek Analytical, Inc.

Kirk Gendron, Project Manager

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East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

Attachment C

January 8, 1998

Peggy Rice
King County Industrial Waste
130 Nickerson St., Ste 200
Seattle, Washington 98109

Re: Annual Discharge Report for Jin's Enterprises, 2350 24th Avenue East, Seattle, Washington.

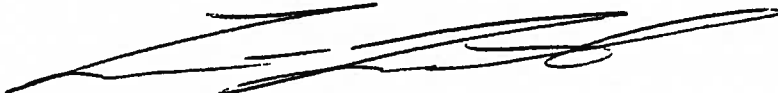
Dear Peggy,

During the last year, 1997, approximately 83,374 gallons of water were discharged under permit authorization# 192. Total gallons discharged expressed as a daily average is 228 gallons/day.

On July 11, 1997 effluent samples were collected and analyzed for BETX and non-polar fats, oils and grease (FOG). The results of these analyses were non-detect. On December 30, 1997 effluent samples were collected and analyzed for BETX and non-polar Fog. Results for gasoline and BTEX were non-detect, and the result for non-polar FOG was 17.2 ppm (100 ppm discharge limit). All laboratory data and chain of custody documents are included in this report.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that a qualified personnel properly gathers and evaluates 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Respectfully Submitted,



Curtis Lightle

Glacier Environmental Services, Inc.

12521 Evergreen Drive, Suite A Mukilteo, Washington 98275 Fax: (206) 290-9186 Phone: (206) 355-2826

Pouch 778 Unalaska, Alaska 99685 Fax: (907) 581-2845 Phone: (907) 581-3973



January 8, 1997

Peggy Rice
King County Industrial Waste
130 Nickerson St., Ste 200
Seattle, Washington 98109

Re: Annual Discharge Report for Jin's Enterprises, 2350 24th Avenue East, Seattle, Washington.

Dear Peggy,

During the last year, 1996, approximately 66,080 gallons of water were discharged under permit authorization# 192. Total gallons discharged expressed as a daily average is 367 gallons/day.

On October 10, 1996 effluent samples were collected and analyzed for BETX and non-polar fats, oils and grease. The results of these analyses were non-detect. The system has been shut down since November 1996, however, we expect to resume discharge sometime during the month of February. Upon resumption of discharge, additional samples shall be collected and analyzed for non-polar fog and BETX. These results along with a total monthly discharge report for this period will be immediately reported to your office.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that a qualified personnel properly gathers and evaluates 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Curtis Lightle", written over a horizontal line.

Curtis Lightle

Glacier Environmental Services, Inc.

12521 Evergreen Drive, Suite A Mukilteo, Washington 98275 Fax: (206) 290-9186 Phone: (206) 355-2826

Pouch 778 Unalaska, Alaska 99685 Fax: (907) 581-2845 Phone: (907) 581-3973



January 10, 1995

Patricia Magnuson
Industrial Waste Investigator
METRO
130 Nickerson st., Suite 200
Seattle, WA 98109-1658

RE: Continuation of Discharge Authorization (DA) for petroleum remediation services at Jin's Enterprises 2350-24th Avenue East Seattle, Washington 98122.

Dear Patricia:

During the last year, 1994, approximately 10,000 gallons of treated water were discharged under permit authorization # 192. On June 6, 1994 effluent samples were collected and analyzed for BTEX and Non-polar FOG. Analytical results were Non-detect for these parameters.

The remediation system has been shut down since June 7, 1994 due to construction by Jin Choung. We would like to begin discharging again and request additional authorization in accord with your requirements. The only change in operation has been the moderate relocation of the groundwater treatment system.

Sincerely,

Jin Choung
President Jin's Enterprises

Duane Maki
Glacier Environmental Services, Inc.

Glacier Environmental Services, Inc.

12521 Evergreen Drive, Suite A Mukilteo, Washington 98275 Fax: (206) 290-9186 Phone: (206) 355-2826

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