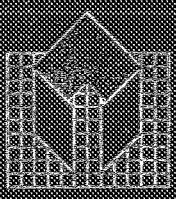
PHASE II ENVIRONMENTAL SITE ASSESSM
FOR
F.R. McABEE INC.
OF
PLAZA SHOPPING CENTER
SEATTLE, WASHINGTON
PROJECT NO. 9057.0103
DECEMBER 31, 1993

Diagnostic Environmental Inc.



ATC/DIAGNOSTIC ENVIRONMENTAL INC.

6347 Seaview Ave., N.W.
Seattle, Washington
98107

206-781-1449
FAX 206-781-1543

Air/Soil/Water Analysis
Asbestos Management
Building System Evaluation
Environmental Engineering
Industrial Hygiene
Remedial Investigation

December 31, 1993

Rick McAbee
F.R. MCABEE, INC.
9737 Holman Road NW
Seattle, Washington 98117

RE: PHASE II ENVIRONMENTAL SITE ASSESSMENT
PLAZA SHOPPING CENTER
PROJECT NO. 9057.0103

Mr. McAbee:

Attached is the Phase II Environmental Site Assessment for the above-referenced facility. Included in this Environmental Site Assessment are an executive summary, sampling and analysis results, conclusions, plans, boring logs and laboratory analysis data.

If you have any questions regarding this report, please call this office.

Sincerely,

Neil R.Gilham
Project Manager

Attachment

TABLE OF CONTENTS

I. EXECUTIVE SUMMARY

At the request of F.R. McAbee, Inc., ATC/Diagnostic Environmental Inc. (DEI) performed a Phase II Environmental Site Assessment at the Plaza Shopping Center located at Holman Road NW, in Seattle, Washington (project area). The assessment consisted of soil sampling in the project area adjacent to a former gas station site (currently Key Bank) adjoining the project area. The presence of the former gas station was determined during a Phase I Audit performed by DEI in August, 1993. The purpose of the Phase II investigation was to determine if a potential release of petroleum product at the former gas station had impacted the project area.

Four soil borings were drilled using truck-mounted hollow stem auger equipment. Soil samples were collected from selected depth intervals in each boring. Selected samples were analyzed for total petroleum hydrocarbons to determine the type of petroleum product present and if regulatory cleanup levels had been exceeded.

The results of soil sample analysis revealed no detectable levels of petroleum hydrocarbons. Therefore, it does not appear that any potential release of petroleum product at the former gas station has impacted the project area. DEI recommends no further investigation with respect to the former gas station adjoining the project area.

II. INTRODUCTION

ATC/Diagnostic Environmental Inc. (DEI) performed a Phase II Environmental Site Assessment at the Plaza Shopping Center located at Holman Road NW, Seattle, Washington (project area). Specifically, the investigation was conducted adjacent to the Key Bank building located at 9737 Holman Road NW within the Plaza Shopping Center.

The Phase II Environmental Site Assessment was performed in response to the findings of a Phase I Environmental Audit conducted in the project area in August, 1993 (reference Phase I Environmental Audit, August 17, 1993, Project No. 9057.0101). The Phase I investigation determined that the Key Bank building was constructed on the site of a former gasoline service station which operated from 1956 to 1984. There was no evidence that soils were sampled when in 1984 the station was demolished and the underground storage tanks (UST's) were removed. Therefore, DEI recommended in the Phase I that a subsurface investigation be performed to determine if a release had occurred which would impact the project area. It should be noted that the Key Bank site is not within the project area. However, the boundaries of the project area are sufficiently near the Key Bank site such that a significant release of petroleum product at the former gas station could potentially impact the project area (refer to Site Plan).

The Phase II Environmental Site Assessment field investigation was conducted on December 16, 1993. The investigation consisted of the following:

1. Drilling of four borings using truck-mounted hollow stem auger drilling equipment. The borings were drilled in the project area near the boundary between the project area and the Key Bank site. All four borings were drilled to a total depth of approximately 23 feet below ground surface.

2. Collection of soil samples at selected intervals from each of the borings (generally at 5 foot intervals beginning at 7.5 feet below ground surface).

4. Laboratory analysis of selected soil samples using the WTPH-HCID method (reference Washington State Department of Ecology - Total Petroleum Hydrocarbon Analytical Methods for Soil).

Plans include a topographic map plan showing surrounding areas (Figure 1), a site plan showing Plaza Shopping Center and the area of investigation (Figure 2), and a sample location plan showing boring and sample locations (Figure 3). Boring logs and laboratory reports are included in the Appendices.

III. BACKGROUND

Site Description

The project area is located at the Plaza Shopping Center, Holman Road NW, Seattle, Washington. Plaza Shopping Center includes a large supermarket building (Art's) and two retail buildings that include retail shops, services, and restaurants. The field investigation of this Phase II Environmental Site Assessment was performed in the parking lot adjacent to the Key Bank building in the southwest portion of the Plaza Shopping Center.

The Plaza Shopping Center was initially developed as a shopping center in 1955. The property was undeveloped prior to 1955. A gasoline service station operated at the existing Key Bank site from 1956 to 1984.

IV. GEOLOGY AND HYDROGEOLOGY

Topography

The project area was observed to be relatively flat, with somewhat of a gentle slope downward towards the north. The project area is found in broad valley which trends in a north-south direction. Towards the north, approximately 300 feet, the valley becomes a steep-sided ravine through which flows Pipers Creek. Pipers Creek drains northward then westward, emptying into Puget Sound approximately 1 mile northwest of the project area. West and east of the project area are broad elongated hills which trend north-south forming the sides of the valley in which the project area is found. The project area is found at an elevation of approximately 75 meters (National Geodetic Vertical Datum of 1929). Source: USGS topographic map (metric), "Seattle North, Washington", 1983; and DEI field observations on August 9, 1993.

Geology

The project area is located in the Puget Sound Basin lying between the Cascade Range on the east and the Olympic Mountains on the west. The regional topography and geology has been influenced by the glacial incursions which occurred during the Pleistocene epoch. The project area is underlain by the Vashon Till which ranges from a gravelly, sandy silt to silty sand with varied quantities of clay and scattered cobbles and boulders. The Vashon Till ranges in thickness from a few feet to more than 30 feet. The Vashon Till is underlain by the Esperance Sand and Lawton Clay. Source: Galster and Laprade, Geology of Seattle, Washington, Bulletin of the Association of Engineering Geologists, August, 1991.

Soils encountered during drilling consisted generally of dense to very dense silty fine to medium sands becoming gravelly in places. These soils would correspond to SM (GM in places) on the Unified Soil Classification System (USCS).

Hydrogeology

Groundwater was encountered at 17 feet below ground surface in Boring Nos. B-1 and B-2. Groundwater was encountered at 12 feet below ground surface in Boring No. B-3 and not encountered again below 17 feet. Groundwater was not encountered in Boring No. B-4. It appears that groundwater occurs in discontinuous layers in the area of investigation. Groundwater flow direction is expected to flow northward in response to topography and flow direction of Pipers Creek.

V. SAMPLING AND ANALYSIS

Drilling and Soil Sample Collection

The field investigation for this Phase II Environmental Site Assessment was conducted on December 16, 1993. A total of four soil borings were drilled using truck-mounted hollow stem auger drilling equipment. The borings were drilled in the project area near the boundary between the project area and the Key Bank site. All four borings were drilled to a total depth of approximately 23 feet below ground surface.

Soil samples were collected at selected intervals from each of the borings generally at 5 foot intervals beginning at 7.5 feet below ground surface (i.e. at 7.5, 12.5, 17.5, and 22.5 feet below ground surface). Soil samples were collected using a split-spoon sampler fitted with brass sleeves. The split-spoon sampler was driven into undisturbed soils with blows from a 140-pound hammer. Blow counts were recorded to determine relative soil density. The samples were retained undisturbed in the brass sleeves and capped with plastic end caps.

All soil samples collected were labelled with sample number, sample location, sample collector's name and date of collection. The samples were then placed into a chilled field ice chest. A chain-of-custody form was maintained with the samples at all times until relinquished to the analyzing laboratory. Each sample was designated with a unique sample number based on boring number and sampling depth (i.e. Sample No. B-1-17.5 is from Boring No. 1 collected from 17.5 feet below ground surface).

The sampling equipment was washed prior to each soil sample collection using a three bucket system, with the first bucket containing an Alconox and tap water wash, the second bucket containing tap water for rinse, and the third bucket containing a distilled water rinse.

No petroleum odors, sheens, or stained soil were observed during drilling or in any of the soil samples or drill cuttings. There were no signs of a petroleum product release observed during drilling and sample collection.

At the conclusion of drilling each boring was backfilled with bentonite chips. The asphalt parking lot pavement was patched with concrete in each boring location. Drill cuttings and rinsate water from equipment decontamination were drummed in 55-gallon DOT drum and left on-site in a location designated by F.R. McAbee, Inc.

Soil Sample Analysis

The collected soil samples were relinquished to Columbia Analytical Services, Inc. located in Bothell, Washington, for analysis. Selected soil samples were analyzed using the following method:

DOE Method WTPH-HCID for qualitative screening to determine the type and presence of petroleum hydrocarbons (reference Washington State Department of Ecology - Total Petroleum Hydrocarbon Analytical Methods for Soil).

The DOE Method WTPH-HCID was selected since this method can determine the type of petroleum product present (i.e. gasoline, diesel, or oil) and also if such product exceeds DOE regulatory cleanup levels. If a petroleum product was determined to be present in a sample further analysis by appropriate methods (e.g. WTPH-G for gasoline) could determine specifically the concentration of a given petroleum product. Additionally, the WTPH-HCID method is the DOE recommended method for use at leaking underground storage tank sites where the exact nature of a suspected release is unknown as in the case of this investigation.

The samples selected for analysis were from the 12.5, 17.5, and 22.5 foot intervals in each boring. These samples were selected for analysis based on their presence at or near the water table (for Boring Nos. B-1, B-2, and B-3). Typically, a release of petroleum product will concentrate at the water table based on the relative density and solubility of petroleum hydrocarbons compared to water. A vapor fraction will be present in the vadose zone above the water table and a dissolved fraction will be present in groundwater. The 7.5 foot interval samples were held by the lab but not analyzed pending the outcome of the results from the deeper samples.

VI. ANALYTICAL RESULTS

There were no detectable levels of total petroleum hydrocarbons (TPH) in any of the soil samples analyzed. The laboratory reports are found in the Appendix. Therefore, no additional analysis for gasoline, diesel, or heavy oils is recommended or analysis of the samples from the 7.5 foot interval.

VII. CONCLUSIONS

Laboratory analysis results revealed no detectable concentrations of TPH from the samples analyzed. Based on these results there does not appear to be a release of petroleum products at the Key Bank site (former gas station) impacting the project area. Therefore, DEI makes no recommendation for further investigation in the project area related to the former gas station at the Key Bank site adjoining the project area.

VIII. LIMITATIONS

DEI has prepared this Assessment using reasonable efforts in each phase of its work to estimate liabilities associated with environmentally regulated substances in the project area. This report is not definitive and should not be assumed to be a complete or specific definition of all conditions above or below grade.

FIGURES

F.R. McABEE, INC.
PLAZA SHOPPING CENTER
SEATTLE, WASHINGTON

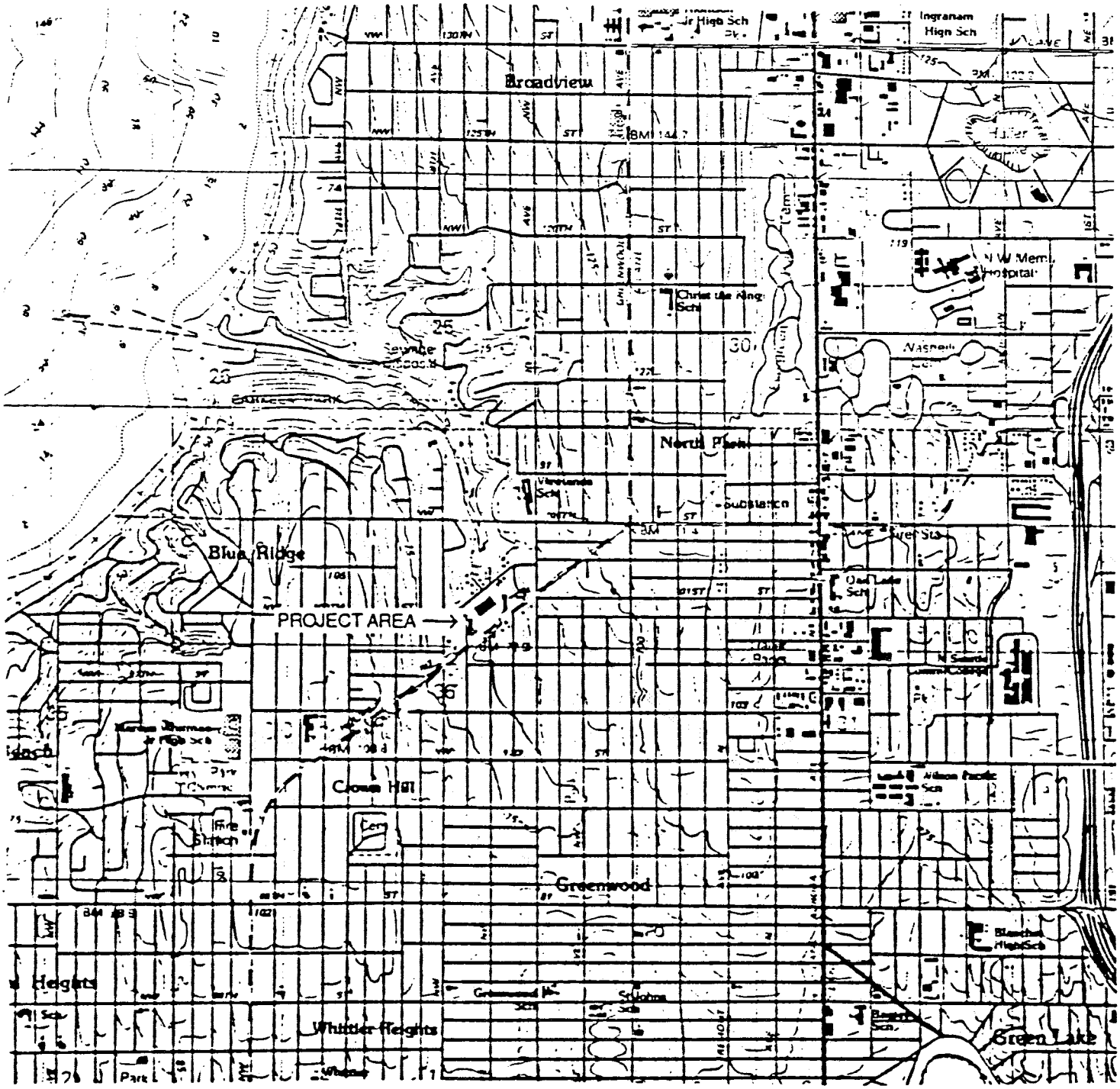


FIGURE 1
TOPOGRAPHIC MAP PLAN
NOT TO SCALE
FROM USGS 7.5' X 15' TOPOGRAPHIC MAP "SEATTLE NORTH, WASHINGTON"

N

PHASE II ENVIRONMENTAL SITE ASSESSMENT
F.R. McABEE, INC.
PLAZA SHOPPING CENTER
SEATTLE, WASHINGTON

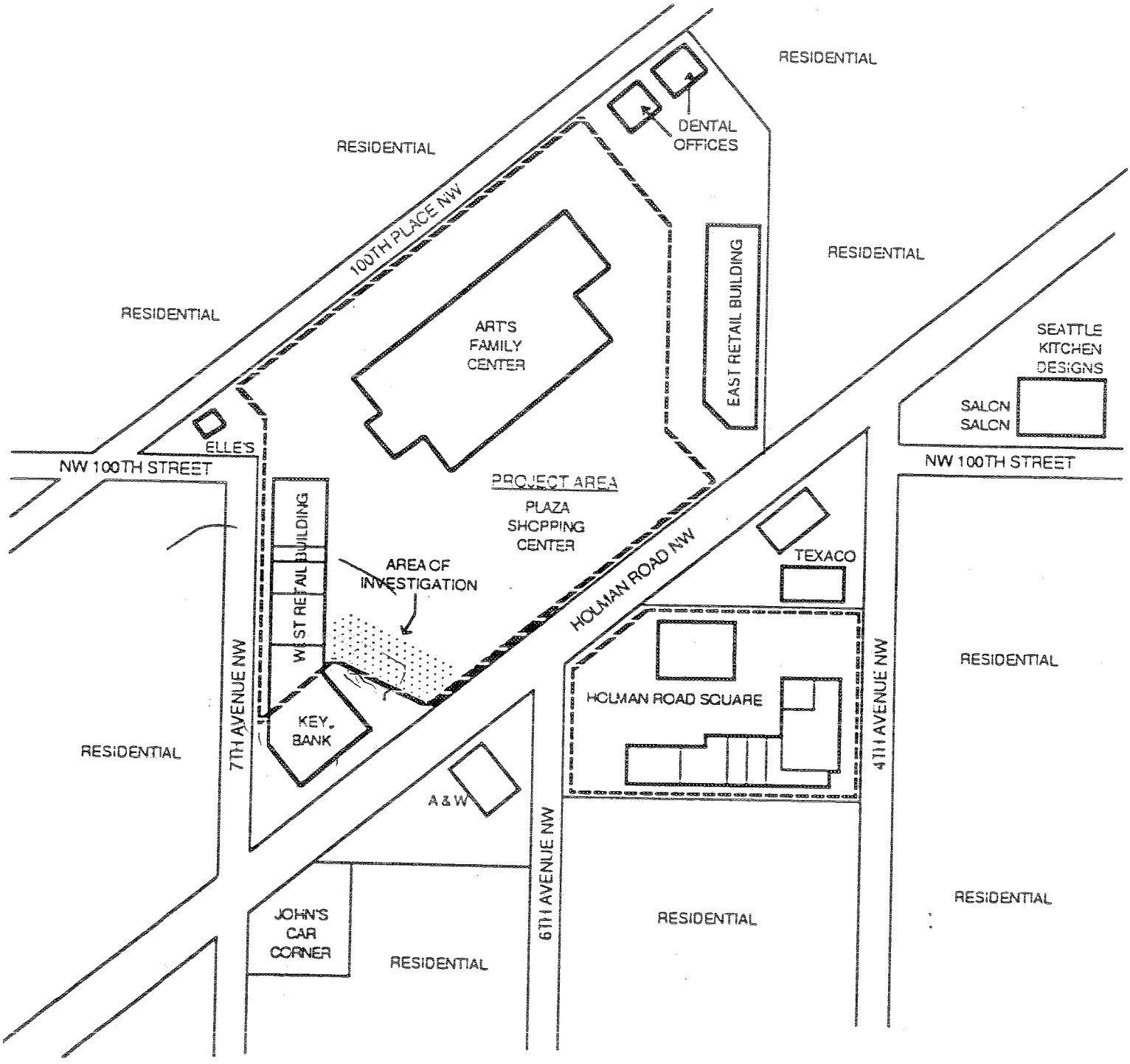


FIGURE 2
SITE PLAN
NOT TO SCALE

PHASE II ENVIRONMENTAL SITE ASSESSMENT
F.R. McABEE, INC.
PLAZA SHOPPING CENTER
SEATTLE, WASHINGTON

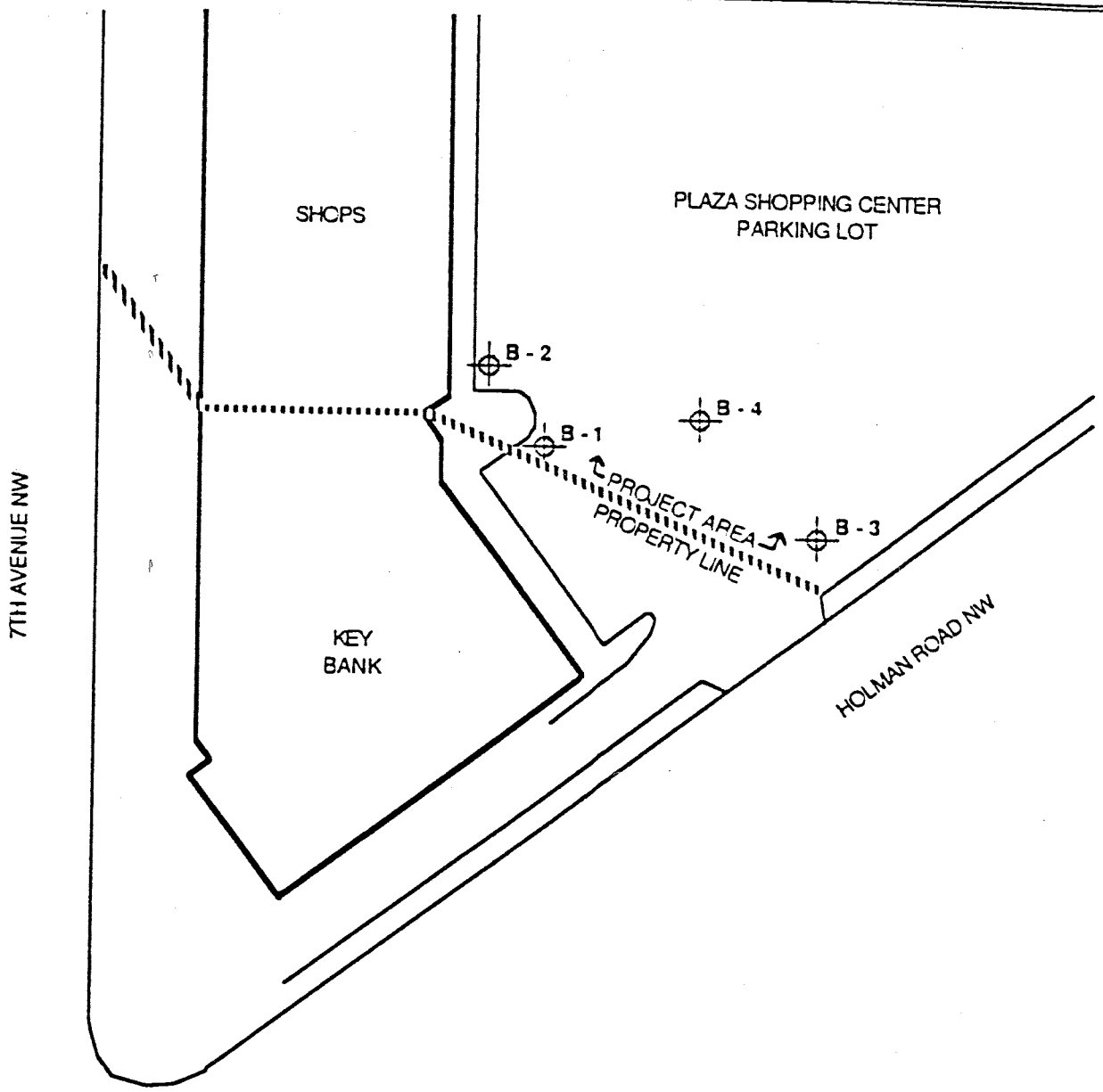


FIGURE 3
SAMPLE LOCATION PLAN
NOT TO SCALE

N

B - 3 = BORING NO. AND LOCATION

ATC / DIAGNOSTIC ENVIRONMENTAL INC.

PROJECT NO. 9057.0103

APPENDICES

APPENDIX A

Boring Logs

BORING LOG

DEPTH (FT)	SAMPLE NO.	BLOW COUNT	LITH/ STRAT	DESCRIPTION
				ASPHALT 4"
				LT. GRAY SILTY SAND, LOOSE, DAMP, SM
5				LT. GRAY SILTY SAND, SL. CLAYEY, SL. PLASTIC, DAMP, SM
	B-1-7.5	31-50 for 3"		LT. GRAY SILTY FINE SAND, SL. GRAVELLY, DENSE, DAMP, SM
10				
	B-1-12.5	25-50 for 3"		LT. GRAY SILTY FINE SAND, SL. GRAVELLY, DENSE, MOIST, SM
15				
	B-1-17.5	50 for 5.5"		LT. GRAY SILTY FINE SAND, SL. GRAVELLY, DENSE, WET, SM
20				
	B-1-22.5	45-50 for 2.5"		LT. GRAY SILTY FINE SAND, SL. GRAVELLY, DENSE, WET
25				

BORING NO. B-1

SURFACE ELEVATION: 245 FEET
TOTAL DEPTH: 23 FEET
DATE DRILLED: 12/16/93

LOGGED BY: NEIL GILHAM
DRILL RIG/DRILLER: MOBILE DRILL B-57, HOLT DRILLING
DIAMETER OF BORING: 8 INCH
WATER ENCOUNTERED AT: 17 FEET

F.R. MCABEE, INC.
PROJECT NAME: PHASE II ESA
PROJECT NO. 9057.0103
LOCATION: PLAZA SHOPPING CENTER, SEATTLE, WA

ATC/DIAGNOSTIC ENVIRONMENTAL INC.
6347 SEAVIEW AVENUE NW, SEATTLE, WA 98107

BORING LOG

DEPTH (FT)	SAMPLE NO.	BLOW COUNT	LITH/ STRAT	DESCRIPTION
				ASPHALT 4"
				GRAY BROWN SILTY SAND, LOOSE, DAMP, SM
5				LT. GRAY SILTY SAND, SILTY SAND, DAMP, SM
	B-2-7.5	34-50 for 2"		LT. GRAY GRAVELLY SILTY FINE TO MED. SAND, DENSE, DAMP, SM
10				
	B-2-12.5	25-50 for 4"		LT. GRAY GRAVELLY SILTY FINE TO MED. SAND, DENSE, DAMP, SM
15				
	B-2-17.5	31-50 for 5.5"		LT. GRAY GRAVELLY MED. SAND, DENSE, WET, SM TO GM
20				
	B-2-22.5	50 for 4.5"		GREENISH GRAY SILTY FINE SAND, SL. GRAVELLY, DENSE, WET, SM
25				

BORING NO. B-2

SURFACE ELEVATION: 245 FEET
TOTAL DEPTH: 23 FEET
DATE DRILLED: 12/16/93

LOGGED BY: NEIL GILHAM
DRILL RIG/DRILLER: MOBILE DRILL B-57, HOLT DRILLING
DIAMETER OF BORING: 8 INCH
WATER ENCOUNTERED AT: 17 FEET

F.R. MCABEE, INC.
PROJECT NAME: PHASE II ESA
PROJECT NO. 9057.0103
LOCATION: PLAZA SHOPPING CENTER, SEATTLE, WA

ATC/DIAGNOSTIC ENVIRONMENTAL INC.
6347 SEAVIEW AVENUE NW, SEATTLE, WA 98107

BORING LOG

DEPTH (FT)	SAMPLE NO.	BLOW COUNT	LITH/ STRAT	DESCRIPTION
				ASPHALT 4"
				GRAY BROWN SILTY SAND, LOOSE, DAMP, SM
5				
	B-3-7.5	22-50		LT. GRAY GRAVELLY SILTY FINE TO MED. SAND, DENSE, MOIST, SM
10				
	B-3-12.5	50 for 3.5"		LT. GRAY GRAVELLY SILTY FINE TO MED. SAND, DENSE, WET, SM
15				
	B-3-17.5	50 for 5.5"		LT. GRAY SILTY SAND, SL. GRAVELLY DENSE, MOIST, SM
20				
	B-3-22.5	50 for 3"		GRAY SILTY FINE SAND, SL. GRAVELLY, DENSE, MOIST, SM
25				

BORING NO. B-3

SURFACE ELEVATION: 245 FEET
TOTAL DEPTH: 23 FEET
DATE DRILLED: 12/16/93

LOGGED BY: NEIL GILHAM
DRILL RIG/DRILLER: MOBILE DRILL B-57, HOLT DRILLING
DIAMETER OF BORING: 8 INCH
WATER ENCOUNTERED AT: 12 FEET

F.R. MCABEE, INC.
PROJECT NAME: PHASE II ESA
PROJECT NO. 9057.0103
LOCATION: PLAZA SHOPPING CENTER, SEATTLE, WA

ATC/DIAGNOSTIC ENVIRONMENTAL INC.
6347 SEAVIEW AVENUE NW, SEATTLE, WA 98107

BORING LOG

DEPTH (FT)	SAMPLE NO.	BLOW COUNT	LITH/ STRAT	DESCRIPTION
				ASPHALT 4"
5				
	B-4-7.5	18-32-50 for 5"		GRAY BROWN SILTY FINE TO MED. SAND, DENSE, MOIST, SM
10				
	B-4-12.5	50 for 5"		GRAY SILTY FINE TO MED. SAND, SL. GRAVELLY, DENSE, MOIST, SM
15				
	B-4-17.5	50 for 5"		GRAY SILTY FINE TO MED. SAND, SL. GRAVELLY, DENSE, MOIST, SM
20				
	B-4-22.5	50 for 4.5"		GRAY SILTY FINE TO MED. SAND, SL. GRAVELLY, DENSE, MOIST, SM
25				

BORING NO. B-4

SURFACE ELEVATION: 245 FEET
TOTAL DEPTH: 23 FEET
DATE DRILLED: 12/16/93

LOGGED BY: NEIL GILHAM
DRILL RIG/DRILLER: MOBILE DRILL B-57, HOLT DRILLING
DIAMETER OF BORING: 8 INCH
WATER ENCOUNTERED AT: NONE

F.R. MCABEE, INC.
PROJECT NAME: PHASE II ESA
PROJECT NO. 9057.0103
LOCATION: PLAZA SHOPPING CENTER, SEATTLE, WA

ATC/DIAGNOSTIC ENVIRONMENTAL INC.
6347 SEAVIEW AVENUE NW, SEATTLE, WA 98107

LOG 4 OF 4

12/16/93

APPENDIX B

Laboratory Reports

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	ATC/Diagnostic Environmental, Inc.	Date Collected:	12/16/93
Project:	McAbee PH II	Date Received:	12/16/93
Sample Matrix:	Soil	Date Extracted:	12/17/93
		Date Analyzed:	12/17,18/93
		Work Order No.:	B930722

Total Petroleum Hydrocarbons - Hydrocarbon Identification
Washington DOE Method WTPH-HCID
mg/Kg (ppm)
Dry Weight Basis

Sample Name	Lab Code	Gasoline		Diesel		Oil*	
		MRL	Result	MRL	Result	MRL	Result
B-1-12.5	B0722-2	20	ND	50	ND	100	ND
B-1-17.5	B0722-3	20	ND	50	ND	100	ND
B-1-22.5	B0722-4	20	ND	50	ND	100	ND
B-2-12.5	B0722-6	20	ND	50	ND	100	ND
B-2-17.5	B0722-7	20	ND	50	ND	100	ND
B-2-22.5	B0722-8	20	ND	50	ND	100	ND
B-3-12.5	B0722-10	20	ND	50	ND	100	ND
B-3-17.5	B0722-11	20	ND	50	ND	100	ND
B-3-22.5	B0722-12	20	ND	50	ND	100	ND
B-4-12.5	B0722-14	20	ND	50	ND	100	ND
B-4-17.5	B0722-15	20	ND	50	ND	100	ND
B-4-22.5	B0722-16	20	ND	50	ND	100	ND
Method Blank	B0722-MB	20	ND	50	ND	100	ND

* Quantified using 30-weight motor oil as a standard.
MRL Method Reporting Limit
ND None Detected at or above the method reporting limit
D Detected at or above the method reporting limit. Refer to the report(s) immediately following for quantitative results for the detected components.

Approved by Chris Elliott Date 12/22/93

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	ATC/Diagnostic Environmental, Inc.	Date Collected:	12/16/93
Project:	McAbee PH II	Date Received:	12/16/93
Sample Matrix:	Soil	Date Extracted:	12/17/93
		Date Analyzed:	12/17,18/93
		Work Order No.:	B930722

Surrogate Recovery Summary
Total Petroleum Hydrocarbons - Hydrocarbon Identification
Washington DOE Method WTPH-HCID

Sample Name	Lab Code	Percent Recovery *p*-Terphenyl
B-1-12.5	B0722-2	99
B-1-17.5	B0722-3	102
B-1-22.5	B0722-4	99
B-2-12.5	B0722-6	104
B-2-17.5	B0722-7	105
B-2-22.5	B0722-8	106
B-3-12.5	B0722-10	105
B-3-17.5	B0722-11	104
B-3-17.5	B0722-11Dup	105
B-3-22.5	B0722-12	106
B-4-12.5	B0722-14	108
B-4-17.5	B0722-15	104
B-4-22.5	B0722-16	104
Method Blank	B0722-MB	123
State-Specified Acceptance Criteria		50-150

Approved by Chris Ellis Date 12/22/93

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	ATC/Diagnostic Environmental, Inc.	Date Collected:	12/16/93
Project:	McAbee PH II	Date Received:	12/16/93
Sample Matrix:	Soil	Date Extracted:	12/17/93
		Date Analyzed:	12/17/93
		Work Order No.:	B930722

Duplicate Summary
Total Petroleum Hydrocarbons - Hydrocarbon Identification
Washington DOE Method WTPH-HCID
mg/Kg (ppm)
Dry Weight Basis

Sample Name: B-3-17.5
Lab Code: B0722-11

Analyte	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference
Gasoline	20	ND	ND	--	--
Diesel	50	ND	ND	--	--
Oil*	100	ND	ND	--	--

MRL Method Reporting Limit
ND None Detected at or above the method reporting limit
* Quantified using 30-weight motor oil as a standard.

Approved by Chris Elliott Date 12/22/93

CHAIN OF CUSTODY/LABORATORY ANALYSIS REPORT FORM

Analytical Services Inc
18912 North Creek Pkwy. Suite 118 • Bothell, WA 98011 • (206) 486 6983 • FAX (206) 486 7695

DATE 12/16/93 PAGE 1 OF 2

PROJECT NAME McABEE PH II #

PROJECT

COMPANY/ADDRESS ATC/DIAGNOSTIC ENVIRONMENTAL INC
6347 SEAVIEW AVE NW
SEATTLE, WA 98107 PHONE 206 781-1449
fax 781-1543

SAMPLERS SIGNATURE

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX	NUMBER OF CONTAINERS	ANALYSIS REQUEST: PETROLEUM HCS — TPH - HCID (State: WA (DOE)); TPH - G (BTEX); TPH - D (OIL); TPH - 418.1; TPH - Other	ORGANIC — Halogenated or Aromatic volatiles 601/8010 (602/8020); Volatile Organics GC/MS 624/8240; Base/Neu Acid Organics GC/MS 625/8270; Pesticides PCBS 8080 PCB ONLY; PAH 8310 HPCL; TCLP Metals (Semi VOA; VOA); Metals Total (Pest/Herb; DISS); List Below	ORGANIC METALS/INORGANIC — Cyanide; pH, Cond, Cl, SO4, PO4, F, Br; NO2 NO3 (Circle); NH3 - N; COD; Total-P TKN; TOC; TOX (Circle); HOLD (MAX. 2 wks.)	REMARKS
B-1-7.5	12/16/93			SOIL				X	
B-1-12.5	"			"		X			
B-1-17.5	"			"		X			
B-1-22.5	"			"		X			
B-2-7.5	"			"				X	
B-2-12.5	"			"		X			
B-2-17.5	"			"		X			
B-2-22.5	"			"		X			
B-3-7.5	"			"				X	
B-3-12.5	"			"		X			

RELINQUISHED BY:
Signature
Printed Name: NEIL GICHAM
Firm: DEI
Date/Time: 12/16/93 4:50PM

RECEIVED BY:
Signature
Printed Name: Alan Seltzer
Firm: ENA
Date/Time

RELINQUISHED BY:
Signature
Printed Name: ALAN SELTZER
Firm: ENA
Date/Time

RECEIVED BY:
Signature
Printed Name: Colin Elliott
Firm: CAS
Date/Time: 12/16/93 7:00pm

TURNAROUND REQUIREMENTS
24 hr ___ 48 hr ___ 5 day
Standard (10 15 working days)
Provide Verbal Preliminary Results
___ Provide FAX preliminary Results
Requested Report Date ___

REPORT REQUIREMENTS
___ I Routine Report
___ II Report (includes DUP MAS. MSD as required may be charged as Samples)
___ III Data Validation Report (includes All Raw Data)
___ IV CLP Deliverable Report

INVOICE INFORMATION:
P.O.#
Bill To

SAMPLE RECEIPT:
Shipping VIA:
Shipping to:
Condition:
Lab No: 893-722

SPECIAL INSTRUCTIONS/COMMENTS:

5

Columbia Analytical Services

18912 North Creek Pkwy, Suite 118 • Bothell WA 98011 • (206) 486 6983 • FAX (206) 486 7695

CHAIN OF CUSTODY/LABORATORY ANALYSIS REPORT FORM

DATE 12/16/93 PAGE 2 OF 2

PROJECT NAME McABEE P4 II #

PROJECT

COMPANY/ADDRESS ATC/DIAGNOSTIC ENVI. INC.
6347 SEAVIEW AVE. NW
SEATTLE, WA 98107 PHONE

SAMPLERS SIGNATURE [signature]

ANALYSIS REQUEST: PETROLEUM HCS / ORGANIC / ORGANIC METALS/INORGANICS

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX	NUMBER OF CONTAINERS	TPH-HCID State WA (DOE)	TPH-G State BTEX	TPH-D State OIL	TPH-418.1 State	TPH-Other	Halogenated or Aromatic Volatiles 601/8010 602/8020	Volatile Organics GC/MS 624/8240	Base/Neu/Acid Organics GC/MS 625/8270	Pesticides/PCBs 8080 PCB ONLY	PAH 8310 8100 GC HPCL	TCLP Metals Semi VOA VOA Pest Herb	Metals Total List Below DISS	Cyanide	pH, Cond, Cl, SO4, PO4, F, Br, NO2, NO3 (Circle)	NH3-N, COD, Total-P, TKN, TOC, TOX (Circle)	HOLD (MAX. 2 WKS)		REMARKS
B-3-17.5	12/14/93			SOIL		X																	
B-3-22.5	"			"		X																	
B-4-7.5	"			"																	X		
B-4-12.5	"			"		X																	
B-4-17.5	"			"		X																	
B-4-22.5	"			"		X																	

RELINQUISHED BY: [signature]
Signature
NEIL GILHAM
Printed Name
DEI
Firm
12/16/93 4:50 PM
Date/Time

RECEIVED BY: Alan Selstad [signature]
Signature
Alan Selstad
Printed Name
ENA
Firm
12/16
Date/Time

TURNAROUND REQUIREMENTS
24 hr ___ 48 hr ___ 5 day
___ Standard (10-15 working days)
___ Provide Verbal Preliminary Results
Provide FAX preliminary Results
Requested Report Date

REPORT REQUIREMENTS
___ I. Routine Report
___ II. Report (includes DUP MAS MSD, as required, may be charged as samples)
___ III. Data Validation Report (includes All Raw Data)
IV. CLP Deliverable Report

INVOICE INFORMATION:
P.O.#
Bill To

SAMPLE RECEIPT:
Shipping VIA:
Shipping to:
Condition:
Lab No. B93-722

RELINQUISHED BY: Alan Selstad [signature]
Signature
Alan Selstad
Printed Name
ENA
Firm
Date/Time

RECEIVED BY: C. Elliott [signature]
Signature
Colin Elliott
Printed Name
CAS
Firm
12/16/93 7:00 pm
Date/Time

SPECIAL INSTRUCTIONS/COMMENTS: