

Heating Oil UST Removal From Property Located at the Corner of 1st Avenue South and South Forest Street (February 20, 1992) – 2759 First Avenue South



February 20, 1992

E-5370-1

Nitze-Stagen
2401 Utah Avenue South, Suite 205
Seattle, Washington 98134

Attention: Mr. Jerry Eilers

Subject: **Heating Oil UST Removal From Property Located at the Corner of First Avenue South and South Forest Street in Seattle, Washington**

Dear Mr. Eilers:

In January of 1992 an undocumented heating oil underground storage tank (UST) was discovered at the above referenced site. ECI was requested to provide site check/assessment soil sampling services to investigate the possibility of any release from the tank.

On January 21, 1992, Mr. Ted Clawson from ECI visited the site to perform a preliminary check of the tank and site conditions. The tank was found to have an approximate capacity of 2,500 gallons and appeared to have last contained heavy heating oil. During this visit an excavator was used to expose the two ends of the tank. Groundwater was present in both excavations and the base of the tank appeared to lie approximately two to three feet below the groundwater surface observed. Two soil samples (S-1 and S-2) were collected, one at each end of the tank, immediately above the soil/groundwater interface. The samples were placed in clean glass jars, sealed, labeled, placed on ice in a cooler, and transported under chain-of-custody to the project laboratory. Both samples were submitted to the laboratory for hydrocarbon identification using WTPH-HCID methodology. Laboratory analysis results indicate no hydrocarbons were present in either sample in concentrations above detection limits.

On January 24, 1991, the UST and associated piping were excavated and removed. Mr. Marcus Pierce from ECI was present to observe the removal of the UST and collect soil samples from the excavation and the stockpiled soil.

Approximately 20 yd³ of soil was excavated to expose the UST for removal. This excavated soil was placed on plastic, sampled, and covered. After removal the UST was observed to be in good condition with no visible signs of corrosion or leakage. The UST was transported from the site for disposal at Northwest Enviro Field Services, Inc.

Three soils samples (S-1, S-2, S-3) were collected from the walls of the excavation adjacent to the soil/groundwater interface. Two soil samples (SS-1, SS-2) were collected from the excavated stockpiled soil. The samples were collected directly into clean glass jars, sealed, labeled, and placed on ice in a

Nitze-Stagen
February 20, 1992

E-5370-1
Page 2

cooler for transportation, under chain-of-custody, to the project laboratory. Samples SS-1 and SS-2 were composited by the laboratory and the composite sample along with samples S-1, S-2, and S-3 were analyzed for hydrocarbon identification using WTPH-HCID methodology. Laboratory analysis results indicate no hydrocarbons were present in any of the samples in concentrations above detection limits. Copies of laboratory reports and chain-of-custody forms for all samples collected at the site are provided as an attachment to this letter.

Based on the observed condition of the tank and the absence of hydrocarbons in the soil at the site, it does not appear a release from the UST has occurred. In the absence of any release of petroleum hydrocarbons, no further action is required with respect to the removal of the heating oil UST.

We appreciate the opportunity to provide these environmental services to you. If you have any questions or we may be of additional service, please contact us.

Respectfully submitted,

EARTH CONSULTANTS, INC.



Ted S. Clawson
Geologist

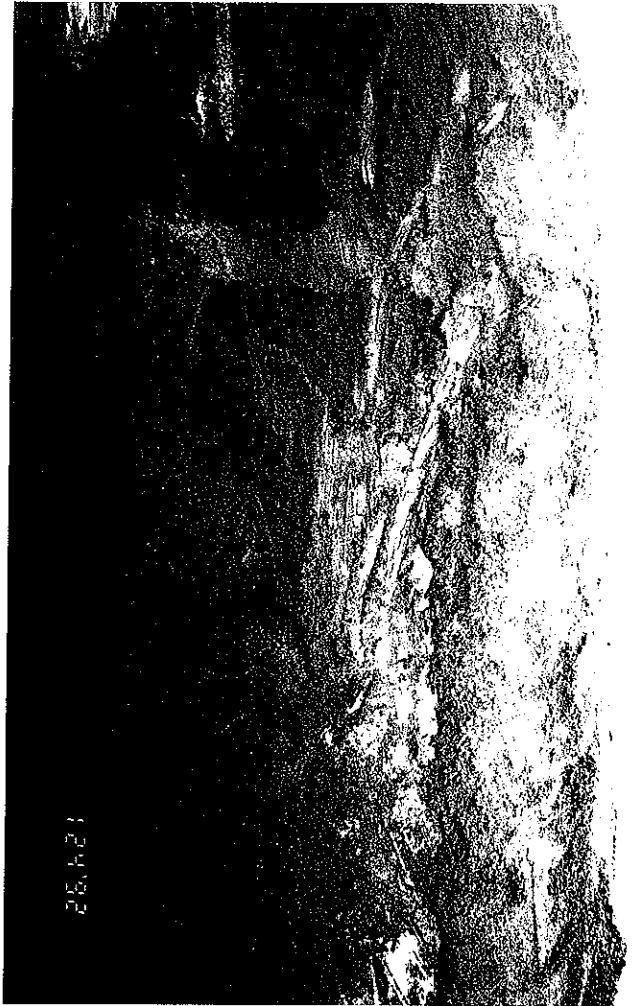
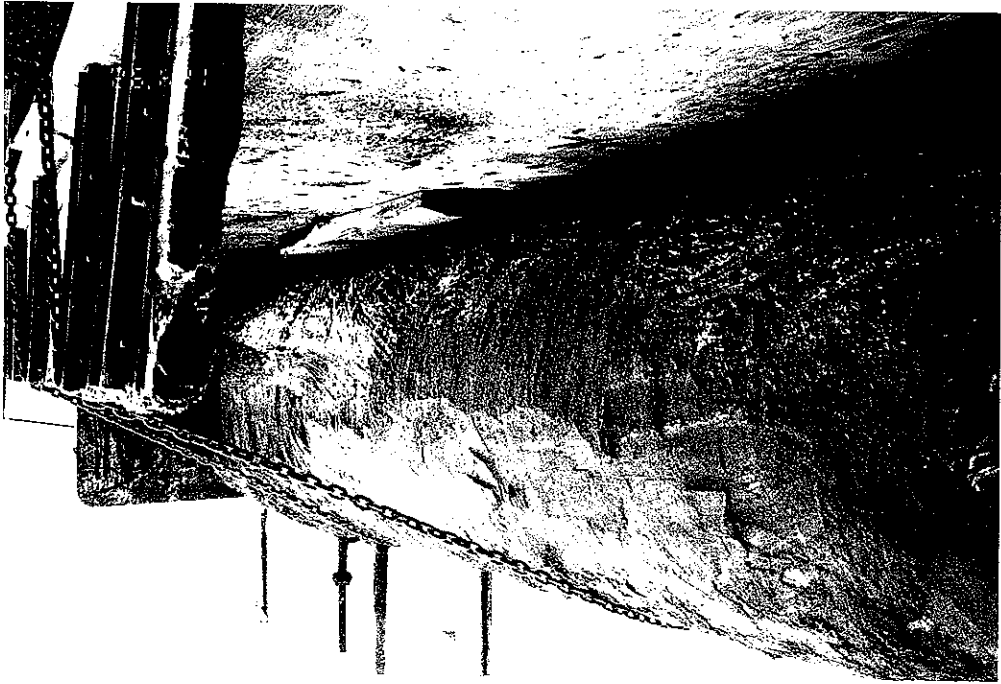


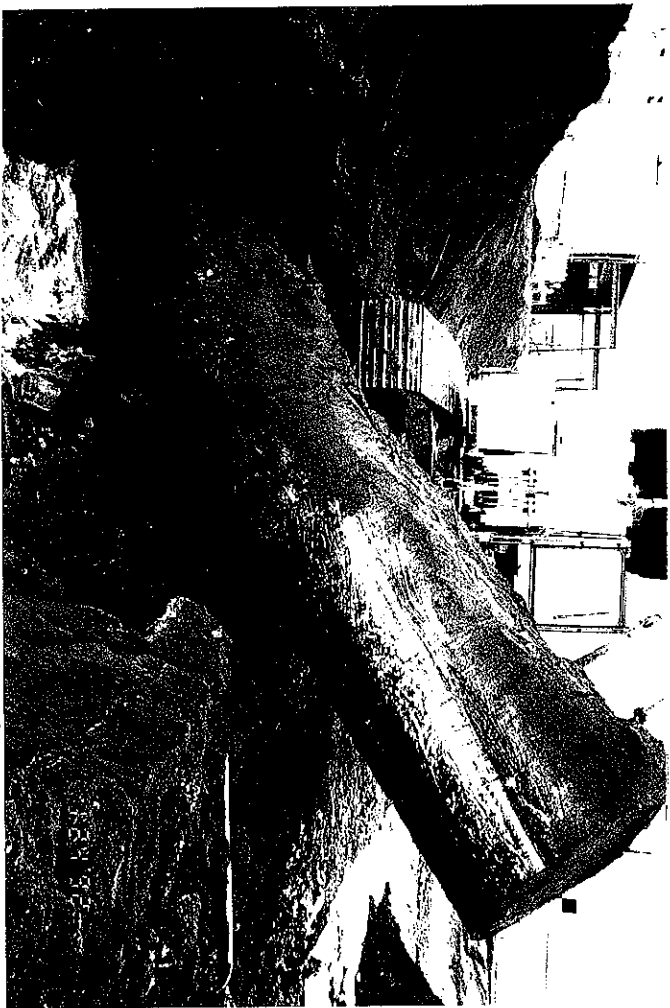
C. Susan Evans
Senior Hydrogeologist

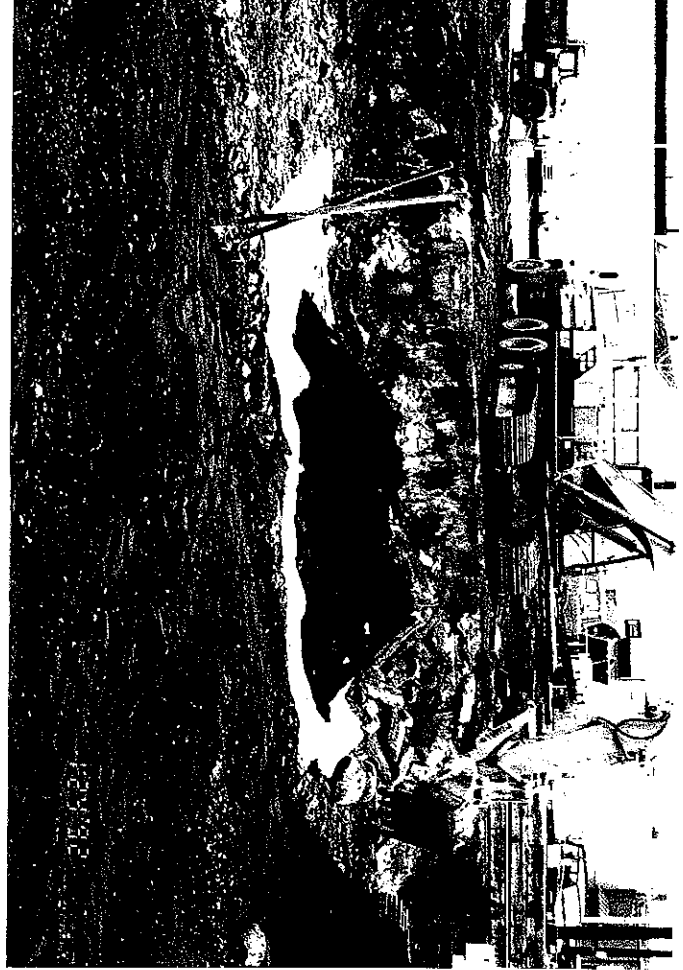
TSC/CSE/ljs

[5370-1en.1o3]

Attachments







Earth Consultants Inc. 1805 136th Place N.E., Suite 101 Bellevue, WA 98005 Attention: Ted Clawson	Client Project ID: E-5370-1 Matrix Descript: Soil Analysis Method: Qualitative GC-FID First Sample #: 201-0843	Sampled: Jan 24, 1992 Received: Jan 24, 1992 Extracted: Jan 28, 1992 Analyzed: Jan 28, 1992 Reported: Jan 28, 1992
--	---	--

HYDROCARBON IDENTIFICATION (WTPH-HCID)

Sample Number	Sample Description	HCID as Gasoline nC5 - nC12 mg/kg (ppm)	GRO Surrogate Recovery %	HCID as Diesel nC12 - nC28 mg/kg (ppm)	DRO Surrogate Recovery %	HCID Heavy Oil >nC24 mg/kg (ppm)
201-0843	S-1	<20	97	<50	85	<100
201-0844	S-2	<20	121	<50	107	<100
201-0845	S-3	<20	124	<50	123	<100
201-0846	SS-1 SS-2 Comp.	<20	103	<50	103	<100

WTPH-HCID is a qualitative screen to determine the presence and the type of petroleum products that exist at a site. It is intended to be performed on representative soils from a site when the type of petroleum hydrocarbon contamination is unknown. When the analytical results for gasoline range organics, diesel range organics or heavy oils are shown as "Present", thereby exceeding the reporting limits, the specific quantiation method must be employed.

NORTH CREEK ANALYTICAL



Scot Cocanour
Laboratory Director



Earth Consultants Inc.

Geotechnical Engineers, Geologists & Environmental Scientists

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

PROJECT E-5370-1				SAMPLERS: (Signature) Marcus L. Pierce Marcus J. Pierce						
LAB NUMBER	DATE	TIME	SAMPLE TYPE						NO. OF CONTAINERS	REMARKS
			WATER	SEDIMENT	TISSUE	AIR	OIL	OTHER		
S-1	1/24/92 ↓ ↓	1007		X					1	HCLD
S-2		1010		X					1	HCLD
S-3		1025		X					1	HCLD
SS-1		1040		X					1	} Composite HCLD
SS-2		1045		X					1	
<p>Please Rush the Sample Analysis Need Results by 1/27/92 Report results in terms of dry weight</p>										
RELINQUISHED BY: (Signature) Marcus L. Pierce				RECEIVED BY: (Signature) D.J. Lawson				DATE/TIME 1430 1-24-92		
RELINQUISHED BY: (Signature)				RECEIVED BY: (Signature)				DATE/TIME		
RELINQUISHED BY: (Signature)				RECEIVED BY: (Signature) James Hollier				DATE/TIME 1/24/92 3:00		
RELINQUISHED BY: (Signature) D.J. Lawson				RECEIVED BY MOBILE LAB FOR FIELD ANALYSIS: (Signature)				DATE/TIME		
DISPATCHED BY: (Signature)		DATE/TIME	RECEIVED FOR LABORATORY BY: (Signature)			DATE/TIME				
METHOD OF SHIPMENT:										



1805 - 136th Place N.E.
Suite 101
Bellevue, WA 98005
Bellevue (206) 643-3780

FAX (206) 746-0860
Seattle (206) 464-1584

222 E. 26th Street
Suite 103
Tacoma, WA 98421
Tacoma (206) 272-6608

Field Rep.	Job No.	Page 1 of 1	Report No.
Time On Site	Time Off Site	Date 1/24/92	Day of Week
Travel Time	Miles	Weather	
Veh. Hrs. On Site	Hrs. Charged	Visitors	

DAILY FIELD REPORT

Project 5370-1	Job Location S. First Street	Client / Owner Nitzge - Stager	
Gen. Contractor	Gen. Contractor's Super.	Received / Unchecked By	
Grading Contractor	Grading Foreman	Checked By	Date

0845 MLP Arrives Fire Inspection & Inerting already complete

Remove soil above tank but not stockpiling soil until ready to dig around sides of tank

Photos 1, 2, & 3 excavating soil above tank

Demolition site is across street from U-Park parking lot where we installed 3 wells

Fill above tank is a relatively homogeneous vt to t Brown sand (Dredge Spoils ?)

Photo 4 old concrete slab^s exposed in excavation wall

Photo 5 Workman uncovering opening in top of tank

Closed opening so no fill would fall into tank

Photo 6 Wood Debris

Wood & brick debris abundant on north side of tank
old boards (not telephone poles)

Photo 7 Soil/Fill is now being placed on plaster



1805 - 136th Place N.E.
Suite 101
Bellevue, WA 98005
Bellevue (206) 643-3780

FAX (206) 746-0860
Seattle (206) 464-1584

222 E. 26th Street
Suite 103
Tacoma, WA 98421
Tacoma (206) 272-6608

Field Rep.	Job No.	Page of 2	Report No.
Time On Site	Time Off Site	Date 1/24/92	Day of Week Fri
Travel Time	Miles	Weather	
Veh. Hrs. On Site	Hrs. Charged	Visitors	

DAILY FIELD REPORT

Project 5370-1	Job Location S. First Street	Client / Owner Nitzc - Stagen	
Gen. Contractor	Gen. Contractor's Super.	Received Unchecked By	
Grading Contractor	Grading Foreman	Checked By	Date

0910 GW flowing into excavation as side of tank is excavated

Definite hydrocarbon odor in soil just excavated

Photo 8 & 9 GW flowing into excavation

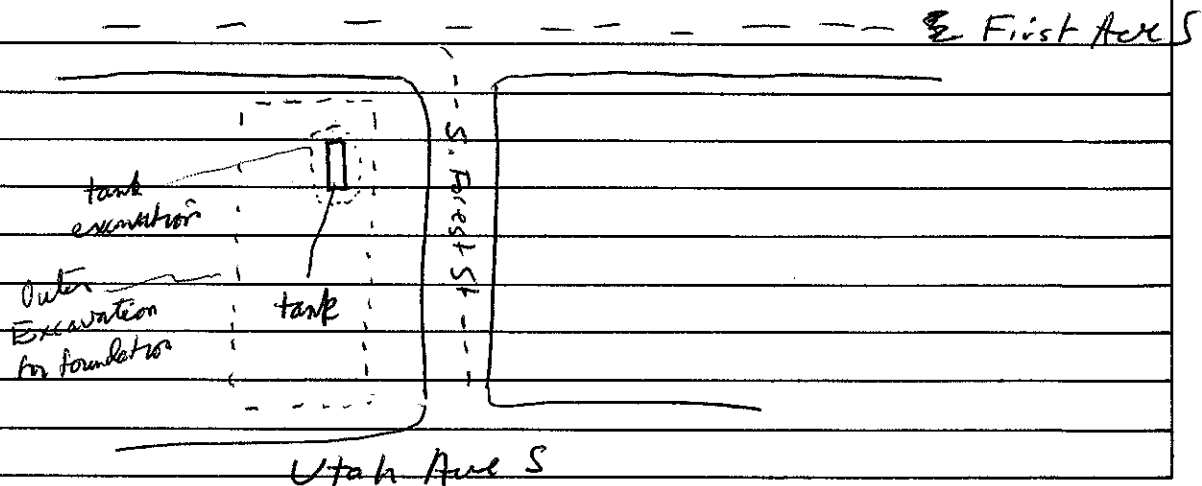
Appears to be sheen on water

Photo 10 Pulled Tank

New Roll of Film

latest soil in stockpile has no odor

Meridian takes break 0925 - 0943





1805 - 136th Place N.E.
Suite 101
Bellevue, WA 98005
Bellevue (206) 643-3780

FAX (206) 746-0860
Seattle (206) 464-1584

222 E. 26th Street
Suite 103
Tacoma, WA 98421
Tacoma (206) 272-6608

Field Rep.	Job No.	Page of 3	Report No.
Time On Site	Time Off Site	Date 1/24/92	Day of Week
Travel Time	Miles	Weather	
Veh. Hrs. On Site	Hrs. Charged	Visitors	

DAILY FIELD REPORT

Project 5370-1	Job Location	Client / Owner	
Gen. Contractor	Gen. Contractor's Super.	Received Unchecked By	
Grading Contractor	Grading Foreman	Checked By	Date

Photos 1, 2 & 3 Pulling tank and excavator's gear

Tank Disposal + NW Enviro

No holes observed in tank

Photos 4-7 Tank on truck

Side Fill Pipe was located on south side - removed also

S-1 1007 South Wall No Odor or Staining

- 2 to 3" above water table

3' from where tank was

No evidence
of
Bunkers
C
contamination

S-2 1010 North Wall No Odor or Staining

Scoped soil that had the sheen seen earlier

- No apparent odor collected sample

S-3 NE corner of excavation at water table

No apparent odor 3

S-4 saturated soil ^{0.5'} to below tank

HC odor?



1805 - 136th Place N.E.
 Suite 101
 Bellevue, WA 98005
 Bellevue (206) 643-3780

FAX (206) 746-0860
 Seattle (206) 464-1584

222 E. 26th Street
 Suite 103
 Tacoma, WA 98421
 Tacoma (206) 272-6808

DAILY FIELD REPORT

Field Rep.	Job No.	Page <u>4</u> of	Report No.
Time On Site	Time Off Site	Date	Day of Week
Travel Time	Miles	Weather	
Veh. Hrs. On Site	Hrs. Charged	Visitors	

Project <u>5370-1</u>	Job Location <u>First Ave S.</u>	Client/Owner <u>Nitze - Stagen</u>
Gen. Contractor	Gen. Contractor's Super.	Received Unchecked By
Grading Contractor	Grading Foreman	Checked By
		Date

Collected two samples for lab composite from soil stockpile 10-20 cubic yards

Only 1-3 CYS had an odor

Stockpile samples collected from middle and side of pile

Also collected GW Grab sample from excavation pit

Chin the operator said the excavation will remain open until the results are available

Told one of the workers who laid out the plastic for the excavated soil that they should cover the pile. He said that he would do it

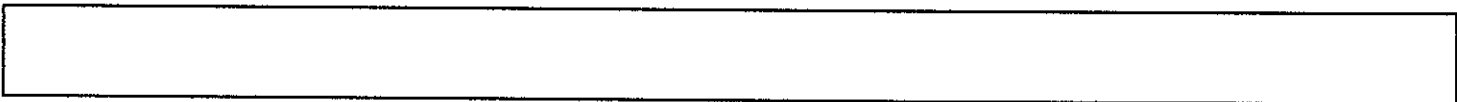
Tank was approx 35' from West curb along First Ave S
 40' from N. Curb of S. Forest

1055 MLP Leaves site

Earth Consultants Inc. 1805 136th Place N.E., Suite 101 Bellevue, WA 98005 Attention: Ted Clawson	Client Project ID: Nitze Stagen 5370-1 Matrix Descript: Soil Analysis Method: Qualitative GC-FID First Sample #: 201-0686	Sampled: Jan 21, 1992 Received: Jan 21, 1992 Extracted: Jan 22, 1992 Analyzed: Jan 22, 1992 Reported: Jan 23, 1992
--	--	--

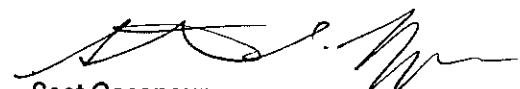
HYDROCARBON IDENTIFICATION (WTPH-HCID)

Sample Number	Sample Description	HCID as Gasoline mg/kg (ppm)	HCID as Diesel mg/kg (ppm)	Surrogate Recovery %
201-0686	S-1	<20	<50	95
201-0687	S-2	<20	<50	92



HCID as gasoline are hydrocarbons between nC7 and nC11. HCID as diesel are hydrocarbons between nC11 and nC24. If Hydrocarbons greater than 20 ppm as gasoline or greater than 50 ppm as diesel are reported as "Present", proceed to WTPH-G or WTPH-D for accurate quantitation.

NORTH CREEK ANALYTICAL


 for Scot Cocanour
 Laboratory Director



18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-2569
 Phone (206) 481-9200 • FAX (206) 485-2992

CHAIN OF CUSTODY REPORT

CLIENT: ECI	REPORT TO: SAMP	SAME DAY (2-8 HR.) RUSH (+150%)	<input checked="" type="checkbox"/>
ADDRESS: 1805 136th PL NE Bellevue wa	(ATTN) SUSAN EVGANS	NEXT DAY RUSH (+100%)	<input checked="" type="checkbox"/>
PHONE: 6433780 FAX:	BILLING TO:	2 DAY RUSH (+80%)	
PROJECT NAME: Nitae Stagen	P.O. NUMBER:	3 DAY RUSH (+60%)	
PROJECT NUMBER: 5370-1	NCA QUOTE #:	5 DAY RUSH (+40%)	
SAMPLED BY: JJ Clawson	ANALYSIS REQUESTED	10 DAY STANDARD (LIST PRICE)	
SAMPLE IDENTIFICATION:		COMMENTS & PRESERVATIVES USED	LABORATORY NUMBER
NUMBER OR DESCRIPTION			
1 S-1	HCID		2010686
2 S-2	XX		2010687
3			
4			
5			
6			
7			
8			
9			
10			
RELINQUISHED BY: W.D. Mawer	RECEIVED BY: Dana Henry	TOTAL # OF CONTAINERS RECEIVED?	DATE: 1/21/92
FIRM: ECI	FIRM: NCA		TIME: 11:05
RELINQUISHED BY:	RECEIVED BY:		DATE:
FIRM:	FIRM:		TIME:

SAMPLE RECEIPT INFORMATION:	CONTAINER CONDITION?:	GOOD	VIOLATED	COOL (4° C)?	YES	NO
CUSTODY SEALS? GOOD	VIOLATED	NOT USED	HAZARDOUS SAMPLES?:	NO	YES; DESCRIBE ON BACK	
						PAGE (OF



Earth Consultants Inc.
Geotechnical Engineers, Geologists & Environmental Scientists

COMMUNICATION RECORD

Job No. *E-5370-1*

Date *1/28/92*

Phone In Meeting Prospective Job Past Job
Phone Out Current Job Administrative Marketing

Route To

Time *1145*

By *MW*

File Name (Owner)

Person *Jerry Eilers*

Firm *Nitze - Stagen*

Phone No. *948-0819*

Subject

Remarks

*Told him the analytical results will be avail
at the end of today. He wants the results
faxed to him as soon as they become avail.*

FAX 467-0423

*Told him CSE would FAX him the results
because I will be out of the office this
afternoon*

Continued

Action Required

Action Taken

Action By

Date