



Intertek Testing Services
Environmental Laboratories

URGENT!

To: AL RIDLEY Date: 08/07/97
Company: WCC-OAK Fax No.: 874-3268
From: RICTH Pages: 4

Comments:

AL.

TPH AS DIESEL AND Motor Oil.
RUSH RESULTS

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 500 12th Street, Suite 100, Oakland, CA 94607-4444
 (510) 893-3600

Chain of Custody Record

PROJECT NO. **961163NA**

SAMPLERS: (Signature) *A. Ridley*

ANALYSES

DATE	TIME	SAMPLE NUMBER	Sample Matrix (Soil, Water, Air)	EPA Method 8015 TPH-D, Methyl	EPA Method	EPA Method	EPA Method	HOLD	Number of Containers	REMARKS (Sample preservation, handling procedures, etc.)
	10:30	B1A-1		X					1	TPH D/and Moton by 8015M as Noted <u>Request</u> 48 hours <u>Turnaround</u> <u>Glass</u> <u>Jar</u> containers of soil
	10:40	B1A-2		X					1	
	10:00	S1A-1		X					1	
	10:10	S1A-2		X					1	
	9:30	S3A-1		X					1	
	9:40	S3A-2		X					1	
	9:00	S4A-1					X		1	
	9:10	S4A-2		X					1	
	9:15	S4A-3		X					1	
	NOON	SS5A-1		X					1	
	12:15 PM	SS5A-2		X					1	
8-5-97	11:00	S6A-1		X					1	
	11:10	S6A-2					X		1	
	11:30	SS8A-1		X					1	
	11:40	SS8A-2					X		1	

TOTAL NUMBER OF CONTAINERS **15**

RELINQUISHED BY: (Signature) *A. Ridley*

DATE/TIME **8-5-97 11:30 AM**

RECEIVED BY: (Signature) *[Signature]*

RELINQUISHED BY: (Signature) *[Signature]*

DATE/TIME **8-5-97 1906**

RECEIVED BY: (Signature)

METHOD OF SHIPMENT:

SHIPPED BY: (Signature)

COURIER: (Signature)

RECEIVED FOR LAB BY: (Signature) *[Signature]*

DATE/TIME **8/5/97**

Project: *Ensign Terminal*
 Project Number: *7513112*
 Location: *ABL PROPERTY*

Log of *BIA*

Date(s) Drilled: <i>5/5/07</i>	Total Depth Drilled (feet):	Top of Casing Elevation (feet):	Groundwater Level (feet):	First Completion: <input checked="" type="checkbox"/>	24 Hours: <input checked="" type="checkbox"/>
Logged by: <i>A. Rida</i>	Checked by:	Diameter of Hole (inches):	Diameter of Well (inches):	Number of Samples:	Disturbed: <input checked="" type="checkbox"/> Undisturbed: <input type="checkbox"/>
Drilling Company: <i>FSD</i>	Drilling Method: <i>BACKHOLE</i>	Drill Rig Type:			
Sampler Type: <i>GMS</i>	Drill Bit Size: <i>2 INCH</i>	Type of Well Casing:			
Screen Perforation:	Type of Sand Pack:				
Type of Seals:					
Comments: <i>At loc-on B1 on Figure 4</i>					

Depth, feet	Elevation, feet	SAMPLES			USCS Classification	Graphic Log	MATERIAL DESCRIPTION	Well Completion Log	H ₂ O (ppm)	REMARKS
		Recovery	Sample	Blows/foot						
0										
	<i>BIA-1</i>	<input checked="" type="checkbox"/>					<i>Brown clayey sand with gravel and a dense sand fill</i>			<i>NO PERFORATION</i>
	<i>BIA-2</i>	<input checked="" type="checkbox"/>					<i>Tan fine sand with clay lenses medium dense fill</i>			

Project: *Essential Term No. 1*
 Project Number: *2615311A*
 Location: *ABC Parcel*

Log of *SIA*

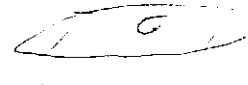
Date(s) Drilled	<i>9/5/07</i>	Total Depth Drilled (feet)		Top of Casing Elevation (feet)		Groundwater Level (feet)	<input checked="" type="checkbox"/>	First Completion	<input checked="" type="checkbox"/>	24 Hours	<input checked="" type="checkbox"/>
Logged by	<i>A. Ridley</i>	Checked by		Diameter of Hole (inches)		Diameter of Well (inches)		Number of Samples		Disturbed	Undisturbed
Drilling Company	<i>RSE</i>	Drilling Method	<i>Backhoe</i>	Drill Rig Type	<i>John Deere 310 D</i>						
Sampler Type	<i>Sho</i>	Drill Bit Size	<i>12" bucket</i>		Type of Well Casing						
Screen Perforation				Type of Sand Pack							
Type of Seals											
Comments <i>A+ location S-1 on Figure 4</i>											

Depth, feet	Elevation, feet	SAMPLES		USCS Classification	Graphic Log	MATERIAL DESCRIPTION	Well Completion Log	TNU (ppm)	REMARKS
		Recovery Sample	Blows/foot						
0						Debris Fill			
1	<i>SIA-1</i>					<i>Broken Gravelly Silt with A.C. and Concrete</i>			<i>No petrology</i>
2						<i>2" dia to 1" dia</i>			
3	<i>SIA-2</i>					<i>AC AC</i>			
10						<i>Tan Fine Sand with (sh) clay layers, FILL</i>			
						<i>Moist</i>			

Project: Encina Terminal S
 Project Number: 96133NA
 Location: ABL Parcel

Log of S3-A

Date(s) Drilled	8/5/97	Total Depth Drilled (feet)	Top of Casing Elevation (feet)	Groundwater Level (feet)	First Completion	24 Hours
Logged by	A. Ridley	Checked by	Diameter of Hole (inches)	Diameter of Well (inches)	Number of Samples	Disturbed Undisturbed
Drilling Company	RSE	Drilling Method	Backhoe		Drill Rig Type John Deere 500	
Sampler Type	Gialb	Drill Bit Size	12" Bucket		Type of Well Casing	
Screen Perforation			Type of Sand Pack			
Type of Seals						
Comments	At location S-3 on Field #					

Depth, feet	Elevation, feet	SAMPLES			USCS Classification	Graphic Log	MATERIAL DESCRIPTION	Well Completion Log	T/Nu (ppm)	REMARKS
		Recovery	Sample	Blows/foot						
0							Crushed F.C. media Loose, dry			No ferruginous odor
1'	S3A-1	X					Brown silty clay with small cl. s.			
2'	S3A-2	X					Tan fine sand with thin silty layers.  NOTE: fill Medium dense			
3'										

Project: *Final Test*
 Project Number: *05-5114*
 Location: *ARL Parcel*

Log of
S4-A

Date(s) Drilled: <i>8/5/07</i>	Total Depth Drilled (feet):	Top of Casing Elevation (feet):	Groundwater Level (feet):	First Completion: <input checked="" type="checkbox"/>	24 Hours: <input type="checkbox"/>
Logged by: <i>J. K. ...</i>	Checked by:	Diameter of Hole (inches):	Diameter of Well (inches):	Number of Samples:	Disturbed: <input type="checkbox"/> Undisturbed: <input type="checkbox"/>
Drilling Company: <i>RST</i>		Drilling Method: <i>Barrel</i>		Drill Rig Type: <i>Terra 2000</i>	
Sampler Type: <i>3" ...</i>		Drill Bit Size: <i>12" ...</i>		Type of Well Casing:	
Screen Perforation:		Type of Sand Pack:			
Type of Seals:					
Comments: <i>A-1000 in S-4 or Figure 4</i>					

Depth, feet	Elevation, feet	SAMPLES			USCS Classification	Graphic Log	MATERIAL DESCRIPTION	Well Completion Log	TINu (ppm)	REMARKS
		Recovery	Sample	Blows/foot						
0										
	<i>54A1</i>	<input checked="" type="checkbox"/>					<i>6" - 2050 1/4" dia ... A.C.</i>			
	<i>54A2</i>	<input checked="" type="checkbox"/>					<i>Tan Fine Sand ... (SM) ... clay, ...</i>			<i>No ...</i>
	<i>54A3</i>	<input checked="" type="checkbox"/>					<i>Loose ... clay ...</i>			<i>... in soil</i>
3'										

Project: 76 S51A
 Project Number: ENGINEERING TERN WALS
 Location: PLANT - GREEN

Log of
 S55A

Date(s) Drilled	< 5/07	Total Depth Drilled (feet)		Top of Casing Elevation (feet)		Groundwater Level (feet)	First	Completion	24 Hours
Logged by	A. Kridon	Checked by		Diameter of Hole (inches)		Diameter of Well (inches)	Number of Samples	Disturbed	Undisturbed
Drilling Company	K&I	Drilling Method	Backhoe	Drill Rig Type	John Deere 5100				
Sampler Type	S-100	Drill Bit Size	12" Bucket	Type of Well Casing					
Screen Perforation				Type of Sand Pack					
Type of Seals									
Comments	1st location S5-5 on Figure								

Depth, feet	Elevation, feet	SAMPLES		USCS Classification	Graphic Log	MATERIAL DESCRIPTION	Well Completion Log	TINu (ppm)	REMARKS
		Recovery Sample	Blows/foot						
0						Brown sand - silty with 2" angular rock some 2" AC, debris, fill dry			Pump glass no debris on surface NO petroleum odor
1		X				Some roots from pump glass			
2		X				Dark Gray clayey silty fill, medium density			
3									

Project: 261-2311F
 Project Number:
 Location:

Log of
 S6A

Date(s) Drilled: 8-5-07	Total Depth Drilled (feet):	Top of Casing Elevation (feet):	Groundwater Level (feet):	First Completion: 24 Hours
Logged by: A. Ridley	Checked by:	Diameter of Hole (inches):	Diameter of Well (inches):	Number of Samples: Disturbed: Undisturbed:
Drilling Company: KSI	Drilling Method: Jacking	Drill Rig Type: Tomco 500	Drill Bit Size: 1 1/2" Reamer	Type of Well Casing:
Screen Perforation:	Type of Sand Pack:	Type of Seals:	Comments: At location - 6 on Figure 4	

Depth, feet	Elevation, feet	SAMPLES			USCS Classification	Graphic Log	MATERIAL DESCRIPTION	Well Completion Log	HNU (ppm)	REMARKS
		Recovery	Sample	Blows/foot						
0										
1	56.1	X				Brown gravel clay with sand & pieces of AR, FILL				100 P270E 23.11
2	56.2	X				Tan sandy clay with gravel, FILL				
3						Dark Gray silty clay, silty sand old bay sediment				



Analyte-Method: TPH-Motor Oil - Mod. 8015
 Client Project Number: 961163NA
 Matrix - Units: Soil - mg/Kg

Analyst:
 Supervisor:

Anamatrix Sample ID	Client Sample ID	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	Dil. Factor	Reporting Limit	Results	Surrogate Recovery	Q
97080129	BIA-1	HP23	8/5/97	8/6/97	8/7/97	10	100	190	81%	
97080130	BIA-2	HP23	8/5/97	8/6/97	8/6/97	1	10	ND	83%	
97080131	SIA-1	HP23	8/5/97	8/6/97	8/7/97	10	100	260	76%	
97080132	SIA-2	HP23	8/5/97	8/6/97	8/7/97	10	100	310	91%	
97080133	S3A-1	HP23	8/5/97	8/6/97	8/7/97	10	100	250	84%	
97080134	S3A-2	HP23	8/5/97	8/6/97	8/7/97	1	10	21	74% 82%	
97080136	S4-A-2	HP23	8/5/97	8/6/97	8/7/97	5	50	130	82% 77%	
97080137	S4A-3	HP23	8/5/97	8/6/97	8/6/97	1	10	ND	88%	
97080138	SS5A-1	HP23	8/5/97	8/6/97	8/7/97	2	20	81	80%	
97080139	SS5A-2	HP23	8/5/97	8/6/97	8/7/97	5	50	95	82%	
97080140	S6A-1	HP23	8/5/97	8/6/97	8/7/97	2	20	66	86%	
97080142	SS8A-1	HP23	8/5/97	8/6/97	8/7/97	20	200	620	82% 73%	
BP0534S	METHOD BLANK	HP23	N/A	8/6/97	8/6/97	1	10	ND	80%	

Analyte-Method: TPH-Diesel - Mod. 8015
 Client Project Number: 961163NA
 Matrix - Units: Soil - mg/Kg

Analyst:
 Supervisor:

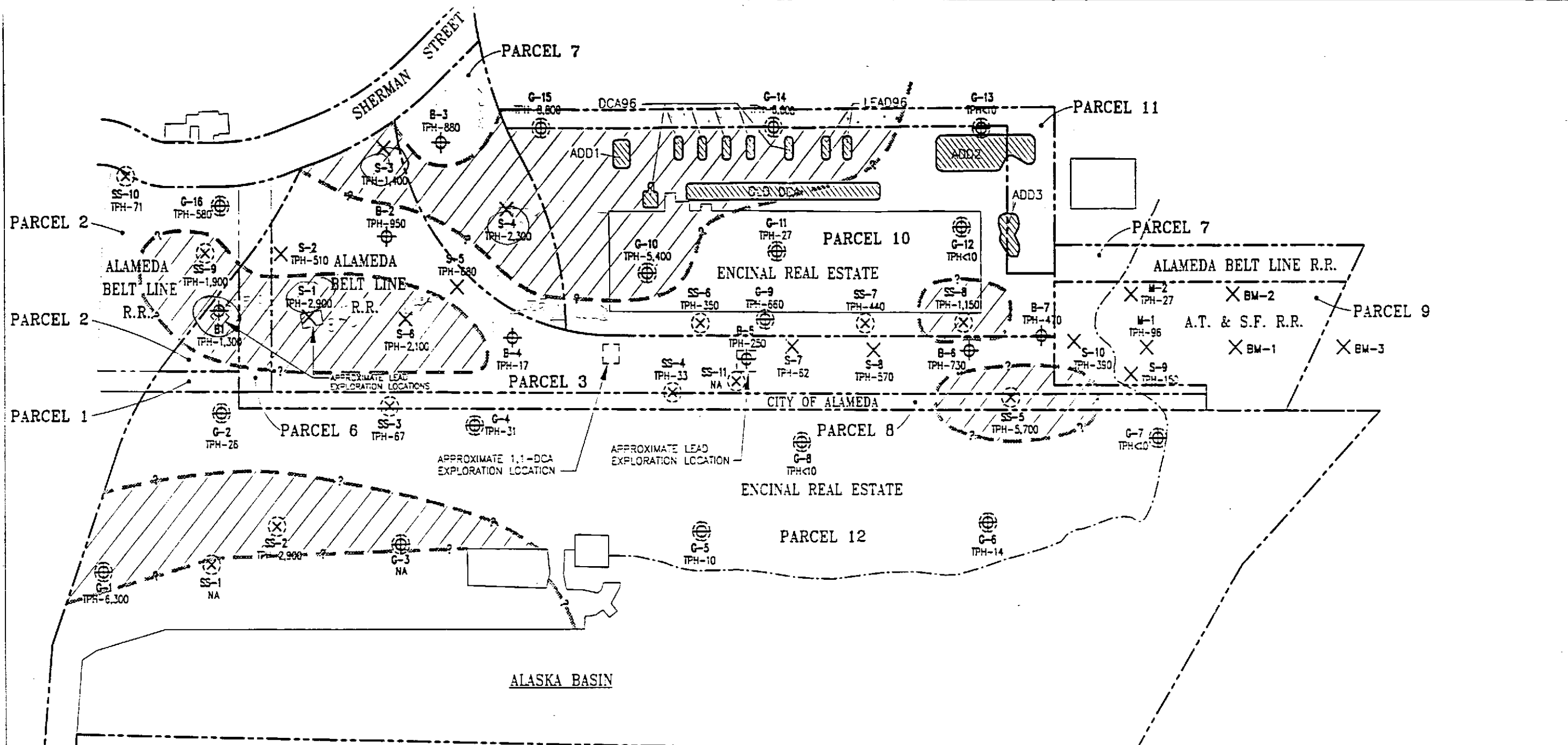
Anamatrix Sample ID	Client Sample ID	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	Dil. Factor	Reporting Limit	Results	Surrogate Recovery	Q
97080129	BIA-1	HP23	8/5/97	8/6/97	8/7/97	10	100	ND	81%	
97080130	BIA-2	HP23	8/5/97	8/6/97	8/6/97	1	10	ND	83%	
97080131	SIA-1	HP23	8/5/97	8/6/97	8/7/97	10	100	ND	76%	
97080132	SIA-2	HP23	8/5/97	8/6/97	8/7/97	10	100	ND	91%	
97080133	S3A-1	HP23	8/5/97	8/6/97	8/7/97	10	100	ND	84%	
97080134	S3A-2	HP23	8/5/97	8/6/97	8/7/97	1	10	ND 14	77% 82%	
97080136	S4-A-2	HP23	8/5/97	8/6/97	8/7/97	5	50	ND	82% 77%	
97080137	S4A-3	HP23	8/5/97	8/6/97	8/6/97	1	10	ND	88%	
97080138	SS5A-1	HP23	8/5/97	8/6/97	8/7/97	2	20	ND	80%	
97080139	SS5A-2	HP23	8/5/97	8/6/97	8/7/97	5	50	ND	82%	
97080140	S6A-1	HP23	8/5/97	8/6/97	8/7/97	2	20	ND	86%	
97080142	SS8A ¹	HP23	8/5/97	8/6/97	8/7/97	20	200	ND	82% 73%	
BP0534S	METHOD BLANK	HP23	N/A	8/6/97	8/6/97	1	10	ND	80%	

Project: 20-31F
 Project Number:
 Location:

Log of
SSRF

Date(s) Drilled	<u>5-9-77</u>	Total Depth Drilled (feet)		Top of Casing Elevation (feet)		Groundwater Level (feet)	First	Completion	24 Hours
Logged by	<u>W.C.</u>	Checked by		Diameter of Hole (inches)		Diameter of Well (inches)		Number of Samples	Disturbed Undisturbed
Drilling Company	<u>RSE</u>			Drilling Method	<u>Auger</u>		Drill Rig Type	<u>Leas 510D</u>	
Sampler Type	<u>Grab</u>			Drill Bit Size	<u>2" Bucket</u>		Type of Well Casing		
Screen Perforation				Type of Sand Pack					
Type of Seals									
Comments	<u>A + location SE-E on Figure 4</u>								

Depth, feet	Elevation, feet	SAMPLES		USCS Classification	Graphic Log	MATERIAL DESCRIPTION	Well Completion Log	INu (ppm)	REMARKS
		Recovery Sample	Blows/foot						
0						Light tan sandy clay with angular gravel and pieces of A/C up to 6 dia FILL			↑
1						Brown gravel 2" dia. FILL with sand and silt			↓
2						Dark grey silty clay decayed			



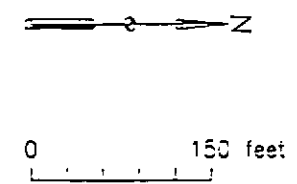
LEGEND

Current Investigation, January 1997

- ⊕ G-5 Geoprobe location
- ⊗ SS-2 Shallow soil location
- ▨ Stockpiles
- ⊗ TPH Motor oil >1,000mg/kg

Previous Investigation, 1996

- ⊕ B-1 Soil boring with water elevation
- ⊗ S-1 Shallow soil sample
- ⊗ M-1 Shoreline sediment
- ⊗ BM-1 Bottom sediment



ENC-08 04/08/97

Project No. 961163NB	Wind River Systems	TPH MOTOR OIL SOIL SAMPLING RESULTS	Figure 4
Woodward-Clyde Consultants			