

4475 SW Scholls Ferry Rd., #256 ▲ Portland, OR 97225 (503) 291-1454 ▲ Fax 291-5425

May 27, 2004

Clark County Public Works Operations Division 4700 NE 78th Street Vancouver, WA 98665

Attn: Charley Masco

Deputy Operations Manager

Re: UST Decommissioning and Site Assessment Report

Trail Mart/Astro 607, 13117 NE Hwy 99, Vancouver, WA

Dear Mr. Masco:

This report presents the procedures, methods and results for the UST decommissioning project recently completed by K&S Environmental, Inc. (K&S) at the above referenced facility. The site is located in a mainly commercial area and the tanks were installed in 1994. The station was acquired by Clark County as part of a highway realignment project scheduled for Hwy 99 and NE 20th Avenue. The site is reportedly in a cleanup from a previous UST release at the site.

Three dispensers were associated with the tanks and the tanks were used to store gasoline and diesel product at a service station. A total of two 15,000 gallon double wall fiberglass lined steel USTs were removed from the site by K&S Environmental, Inc. (K&S), and a Site Assessment was completed by Bill Knutson. K&S is a Washington licensed contractor and Bill Knutson is an Ecology Registered Site Assessor. A 30 Day Notice was submitted prior to beginning work at the site and a copy is included with this report. Soil samples were collected and analyzed per MTCA rules, and the results are presented in this report.

Procedures

On May 17, 2004, K&S began removing the concrete slab over the tanks and removing the dispensers. On May 19, 2004 K&S removed the two tanks from the ground and transported the tanks and all reusable ancillary equipment to the Clark County facility at 4700 NE 78th Street where they will be stored for possible future use. The tanks consisted of one 15,000 gallon UST used to store gasoline only and one 15,000 gallon compartment tank used to store gasoline and diesel products. The piping consisted of double containment flex piping. A TLS 350 leak detection system and overfill containment were in place at the site. The tank was overlaid by reinforced concrete approximately 6 inches thick. The tanks were pumped and triple rinsed by West Coast Marine of Washougal, WA prior to removing the tanks from the site. The tanks were emptied to less than 2-3 inches prior to K&S arriving at the site. The tanks were inerted with 150

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lbs of dry ice prior to removing the tanks from the ground and transporting them to the Clark County site.

After the USTs were removed from the ground, a total of six soil samples were collected by the registered site assessor of the native soil from the UST excavation sidewalls and bottom. The soil samples were collected directly from the trackhoe bucket using disposable Nitrile gloves. The bottom samples were obtained at a depth of 16 feet below the surface, or approximately 1-2 feet beneath the bottom of the tanks. The sidewall samples were collected from the 10 foot depth. The tanks were backfilled with pea gravel. Upon collection of all soil samples, the pea gravel removed to facilitate the removal of the tanks was placed back in the excavation. Clark County will backfill the excavation during the construction work scheduled at the site.

Results

Subsurface Conditions: Native soil at the site consists of silty material from just beneath the surface to the total depth explored of 16 feet. The tanks were bedded in pea gravel. Crushed rock from a previous excavation was noted at the north end of the excavation just beneath the islands. Groundwater was not encountered at the site during the decommissioning process. No visual or olfactory evidence of contamination was noted in the pea gravel backfill material or in the native soil during the decommissioning of the tank. The crushed rock beneath the islands at the north end of the excavation also exhibited no evidence of a release. The containment sumps and double wall flex piping were inspected and found to be in excellent condition with no evidence of failure. The tanks also appeared to be in excellent condition.

Chemical Results: Soil samples collected during the UST decommissioning were preserved and taken to a Washington certified laboratory for analysis for total petroleum hydrocarbons (TPH) in accordance with Ecology rules and regulations for regulated USTs. The analytical methods and results of the samples analyzed are summarized below in Table 1. Complete certified analytical reports are attached to this report.

Table 1

Results of Soil Samples Collected on 5/19/04

	is of Son Samples Conceled on Si	and the state of t
#1	East Tank Bottom, 16 ft.	ND, ND, ND
#2	West Tank Bottom, 16 ft.	ND, ND, ND
#3	North Wall, 10 ft.	ND, ND, ND
#4	East Wall, 10 ft.	ND, ND, ND
#5	South Wall, 10 ft.	ND, ND, ND
#6	West Wall, 10 ft.	ND, ND, ND

NT - Not Tested for this analyte

ND - None detected at or above reportable levels

Conclusions

On May 17-20, 2004, K&S Environmental, Inc. decommissioned the UST system at the former Trail Mart/Astro 607 service station on Hwy 99 in North Vancouver, WA. Bill Knutson of K&S

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and the control of t The control of Environmental, Inc. completed a Site Assessment for the UST decommissioning project and collected soil samples per MTCA.

The decommissioned UST system consisted of two 15,000 gallon fiberglass lined steel USTs used for storing gasoline and diesel fuel for the service station. Three dispensers were associated with the UST system and were removed during the project. The double wall flex product piping was removed from the ground. The vents were removed and approximately 20 feet of 2 inch fiberglass vent pipe were abandoned in place.

Soil samples were collected and analyzed in accordance with Ecology's 'Guidance for Site Checks and Site Assessments for Underground Storage Tanks'. Results of the TPH analyses completed on the six soil samples collected from the UST excavation sidewalls and bottom, in conjunction with field observations made by the registered site assessor, indicate the UST system did not leak.

Since no reportable levels of TPH contamination were detected in the soil samples collected at the site, the excavation will be backfilled by Clark County Public Works during the road construction work scheduled at the site. Included with this report is a copy of the UST Closure and Site Assessment Notice and the UST Site Check/Site Assessment Checklist. Please do not hesitate to call me if you have any questions.

Sincerely,

Bill Knutson, P.E.

Environmental Engineer

cc Jennifer Taylor
Department of Ecology
2108 Grand Blvd.
Vancouver, WA 98661

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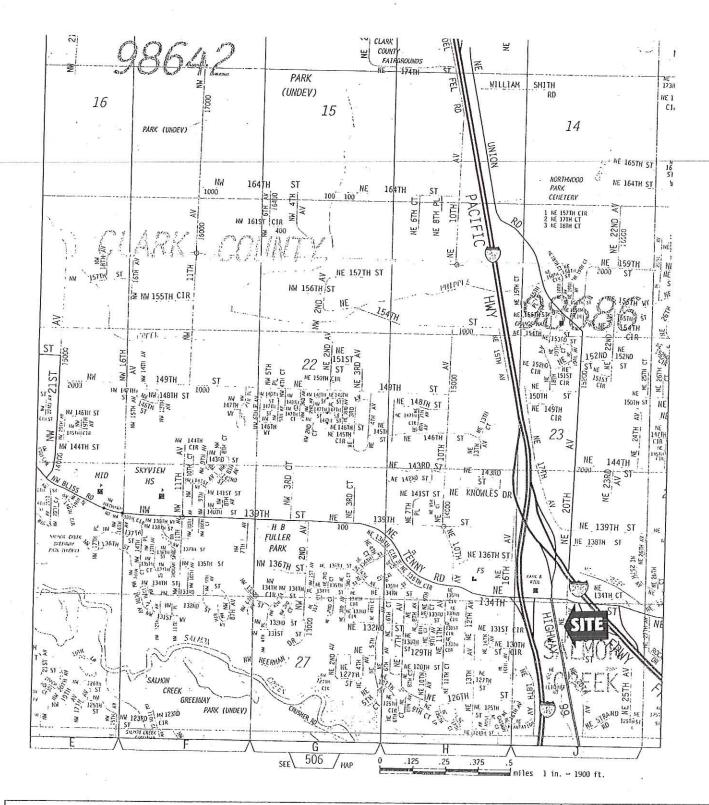
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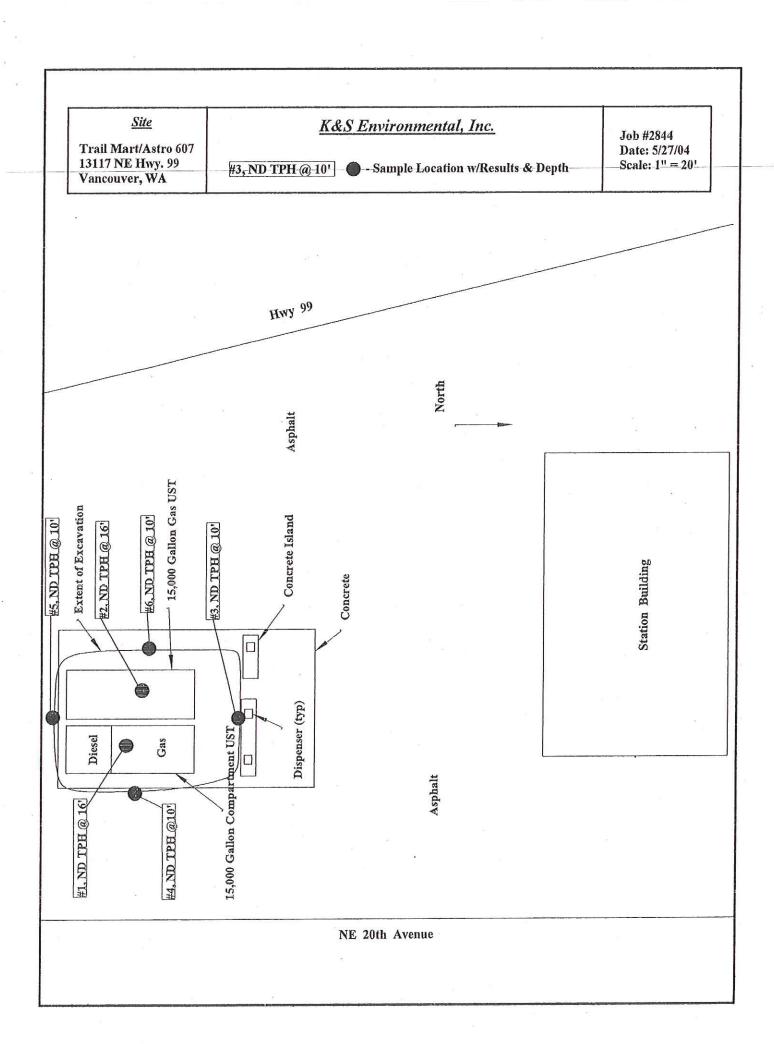
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Vicinity Map	K&S Environmental Inc.
Trail Mart/Astro 607	
13117 NE Hwy 99	Date: 5/26/04
Vancouver, WA	Project: #2844



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	or product		ALDH-HCID	WTPH-HCID	EX (8071)	MLbH-C/BLEY	(4) bP T	B & EDC	CLP (8 metals)	(Slatam E) AJJ	(EPA8082)	3C's (EPA8260)	LBE	
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Spokane East 1111 J. Montgomery, Suite B, Spokane, WA 99205-4776 509.924.9200 fox 509.924.9290

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Bend 20332 Empire Avenue, Suite F-1. Bond, OR 97701-5711 541.393.9310 lax \$41.392.7588

2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119 907.563.9200 fax 907.563.9210

21 May, 2004

Bill Knutson & & S Environmental 4475 S.W. Scholls Ferry Road, Suite 256 Portland, OR 97225

RE: Clark County/Trail Mart

Enclosed are the results of analyses for samples received by the laboratory on 05/19/04 18:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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Eaboratory Manager

Work Orders included in this report:

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K & S Environmental

4475 S.W. Scholls Ferry Road, Suite 256

Portland, OR 97225

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Project: Clark County/Trail Mart .553.9200 10x 907.563.9210

Project Number: 2844

Project Manager: Bill Knutson

Reported: 05/21/04 16:48

ANALYTICAL REPORT FOR SAMPLES

Troit A. ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sample ID	P4E0615-01	Soil	05/19/04 12:00	05/19/04 18:05
.#1 #2	P4E0615-02	Soil	05/19/04 12:00	05/19/04 18:05
#3	P4E0615-03	Soil	05/19/04 12:00	05/19/04 18:05
. #4.	P4E0615-04	Soil	05/19/04 12:00	05/19/04 18:05
#5	P4E0615-05	Soil	05/19/04 12:00	05/19/04 18:05
· . #6	P4E0615-06	Soil	05/19/04 12:00	05/19/04 18:05

North Creek Analytical - Portland

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.

Philip Nerenberg, Laboratory Manager

North Creek Analytical, Inc. Environmental Laboratory Network Page 1 of 7

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20332 Empire Avenue, Suite F-1, Bond, OR 97701-5711 541,383,9310 382,7588

Hydrocarbon Identification per NW-TPH Methodology

North Creek Analytical - Portland

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Portland, OR 97225		Project Ma	nager: Bill	Knutson				05/21/04 1	6:48
Programme and the contract of					PH Metho	dology			
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Analyto	Result	Reporting Limit		Dilution	Method	Prepared	Analyzed	Bawh	No
#1 (P4E0615-01) Soil					Sampled: 05/19	9/04 Rece	ived: 05/19	04	
Gasoline Range Hydrocarbons	ND	20.0	mg/kg dry	1	NWTPH HÇID	05/20/04	05/20/04	4050731	
Diesel Range Hydrocarbons	ND	50.0	*	8,000	**	•	"	*	
Heavy Oil Range Hydrocarbons	ND	100	**	u	0	×	" 	N 	
Surr: 1-Chlorooctadecane	96.7 %	50-150							
#2:(P4E0615-02) Soll	ä				Sampled: 05/19)/04 Rece	ived: 05/19/	04	
The state of the s	ND	20.0	mg/kg dry	1	NWTPH HCID	05/20/04	05/20/04	4050731	
Gasoline Range Hydrocarbons Diesel Range Hydrocarbons	ND	50.0	,	u		111	*1	•	
Heavy Oil Range Hydrocarbons	ND	100		H	н		И	*	
Surr: 1-Chlorooctadecane	94.9 %	50-150							
#3 (P400615-03) Soil					Sampled: 05/19	0/04 Rece	ived: 05/19/	-	,
Gasoline Range Hydrocarbons	ЙD	20.0	mg/kg dry	ı	NWTPH HCID		05/20/04	4050731	
Diesel Range Hydrocarbons	ND	50.0		*	**	:ME	u	. 0	
Heavy Oil Range Hydrocarbons	ND	100		11	н				
Surr: 1-Chlorooctadecane	97.4 %	50-150							
#4 (P4E0615-04) Soll					Sampled: 05/19)/04 Rece	ived: 05/19/	04	
Gasoline Range Hydrocarbons	ND	20.0	mg/kg dry	1	NWTPH HCID	05/20/04	05/20/04	4050731	
Diesel-Range Hydrocarbons	ND	50.0	"	×	11		11	**	
Heavy Oil Range Hydrocarbons	ND	100	340	- 10	н	4	<u> </u>	41	
Surr: 1-Chlorooctudecane	94.8 %	50-150							
#5 (P4E0615-05) Soil			es con		Sampled: 05/19	/04 Rece	ived: 05/19/	04	
Gesolibe Range Hydrocarbons	ND	20.0	mg/kg dry	1	NWTPH HCID	05/20/04	05/20/04	4050731	
Gesome Range Hydrocarbons Diesel Range Hydrocarbons	ND	50.0	" A 10 al	p	и			•	
Heavy Oil Range Hydrocarbons	ND	100	н	**	н	Я	n	n	
Surr: 1-Chlorooctadecane	97.4 %	50-150							
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K & S Environmental

4475 S.W. Scholls Ferry Road, Suite 256

Portland, OR 97225

Project: Clark County/Trail Mago7.563.9200 1ax 907 563.9210

Project Number: 2844

Project Manager: Bill Knutson

Reported: 05/21/04 16:48

Hydrocarbon Identification per NW-TPH Methodology

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
#6 (P4E0615-06) Soil		11			Sampled: 05/19	0/04 Rece	ived: 05/19/	04	
Gasoline Range Hydrocarbons	ND	20.0	mg/kg dry	1	NWTPH HCID	05/20/04	05/20/04	4050731	
Diesel Range Hydrocarbons	ND	50.0	H		и		, m	.66	
Heavy Oil Range Hydrocarbons	ďи	100	2. H 2	"	(145)	11	"	U	
Surr: I-Chlorooctadecane	95.1 %	50-150							

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Philip Nerenberg, Laboratory Manager

North Creek Analytical, Inc. Environmental Laboratory Network Page 3 of 7



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Portland, OR 97225

Project: Clark County/Trail Mant 7.563,9200 fax 907.563,9210

Project Number: 2844 Project Manager: Bill Knutson

Reported: 05/21/04 16:48

Percent Dry Weight (Solids) per Standard Methods North Creek Analytical - Portland

Analyse	Result	Reporting Limit Units	Dilution	n Method	Prepared	Analyzed	Batch	Notes
#1 (P4E0615-01) Soil				Sampled: 05/19/	04 Rece	ived: 05/19/	04	
% Solids	80.2	1.00 % by Weig	ht l	NCA SOP	05/20/04	05/20/04	4050719	
#2 (P4)80615-02) Soil				Sampled: 05/19/	04 Rece	ived: 05/19/0	04	
% Solids	81.5	1.00 % by Weig	nt 1	NCA SOP	05/20/04	05/20/04	4050719	
#3 (P4E0615-03) Soll				Sampled: 05/19/	04 Rece	ived: 05/19/0	04	
% Solids	83.5	1.00 % by Weig	nt I	NCA SOP	05/20/04	05/20/04	4050719	
#4 (P4E0615-04) Soil			£)	Sampled: 05/19/	04 Rece	ived: 05/19/0	04	
% Solids	82.9	1.00 % by Weig	ht 1	NCA SOP	05/20/04	05/20/04	4050719	
#5 (P4E0615-05) Soil		3		\$ampled: 05/19/	04 Rece	ived: 05/19/0	04	
%.Solids	82.4	1.00 % by Weigh	nt i	NCA SOP	05/20/04	05/20/04	4050719	
#6 (P&E0615-06) Soil			,	Sampled: 05/19/	04 Rece	ived: 05/19/0	04	
% Sollds	78.3	1.00 % by Weig	nt l	NCA SOP	05/20/04	05/20/04	4050719	

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Philip Nerenberg, Laboratory Manager

North Creek Analytical, Inc. Environmental Laboratory Network Page 4 of 7

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Portland, OR 97225

Project: Clark County/Trail Mart .563.9200 fax 907.563.9210

Project Number: 2844 Project Manager: Bill Knutson

Reported: 05/21/04 16:48

Hydrocarbon Identification per NW-TPH Methodology - Quality/Control-

			Reporting		Spike	Source		%REC		RPD	
Amalyte	*	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (4050731-BLK1)				Prepared & Ana	alyzed: 05/2	20/04			7.70-17.70-17.70 P.
Gasoline Range Hydrocarbons	DM	20.0	mg/kg			141.4//			
Diesel Range Hydrocarbons	ND	50.0							
Heavy Oil Range Hydrocarbons	ND	100	r		(4)				
Surr: I-Chloroociadecane	DET			9.60	107	50-150		f= 1+1+ ++ + ++>====	
Duplicate (4050731-DUP1)	Sour	ce: P4E060	05-01	Prepared & Ana	lyzed: 05/2	0/04			
Gasoline Range Hydrocarbons	10,5	20.0	mg/kg dry	5.82		,,,	57.4	50	Q-1
Diesel Range Hydrocarbons	מא	50.0	*	ND			NA	50	
Heavy Oil Range Hydrocarbons	ND	100		ND			NA	50	
Suir: 1-Chlorooctadecane	DET		и	12.8	98.4	50-150			

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Philip: Nerenberg, Laboratory Manager

North Creek Analytical, Inc. Environmental Laboratory Network Page 5 of 7

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K & S Environmental

4475'S.W. Scholls Ferry Road, Suite 256

Portland, OR 97225

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Project: Clark County/Trail Maff7.563.9200 far 907.563.9210

Project Number: 2844

Project Manager: Bill Knutson

Reported: 05/21/04 16:48

Percent Dry Weight (Solids) per Standard Methods - Quality Control

North Creek Analytical - Portland

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4050719 - Dry Weight				0	14					· ·
Duplicate (4050719-DUP1)	Sour	rce: P4E0477-	01	Prepares	d: 05/19/0	4 Analyz	ed: 05/20/	04		
% Solids	81.6	1.00% b	y Weight		81.5			0.123	20	
Duplicate (4050719-DUP2)	Sour	rce: P4E0477-	02	Prepared	d: 05/19/0	4 Analyze	ed: 05/20/	04		
% Solids	82.8	1.00% b	y Weight		82.7	Ja 1751		0.121	20	

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Philip Nerenberg, Laboratory Manager

North Greek Analytical, Inc. **Environmental Laboratory Network** Page 6 of 7

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K.&S Environmental

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Portland, OR 97225

Project: Clark County/Trail Man .563.9200 fax 907.563.9210 Project Number: 2844

Project Manager: Bill Knutson

Reported: 05/21/04 16:48

Notes and Definitions

Q-16 RPD is not applicable for analyte concentrations less than 5 times the MRL.

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. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

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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.

Philip Nerenberg, Laboratory Manager

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Clark East UST.jpg 5/19/1904



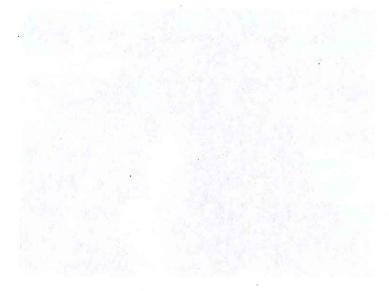
Clark Islands 2.jpg 5/19/1904



Clark Islands.jpg 5/19/1904



Clark North End USTs.jpg 5/19/1904

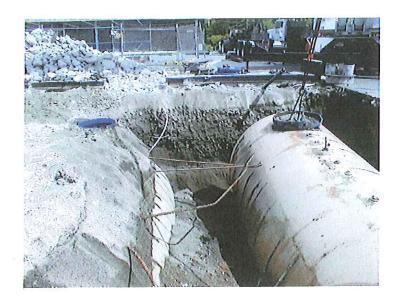












Clark UST.jpg 5/19/1904

Clark USTs N. View.jpg 5/19/1904

