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DEPARTMENT OF INVIRONMENTAL CONSERVATION

SITE ASSESSMENT FOR TANK CLOSURE FACILITY ID NUMBER 0-000825 OWNER:FLOYD & SONS INC. THRIFTY CAR RENTAL 3730 SPENARD ROAD ANCHORAGE, ALASKA 99517

Weste Environmental Cons tants

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THRIFTY CAR RENTAL

3730 SPENARD ROAD ANCHORAGE, ALASKA 99517

2900 Boniface Pkwy • Suite 740 • Anchorage, AK • (907) 338-2055 Ext. 740 • FAX (907) 338-3111

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INTRODUCTION:

Western Environmental Consultants (WEC) was hired by Floyd & Sons Inc. to perform a site assessment for closure upon the removal of one 4,000 gal. gasoline tank located at, Thrifty Car Rental, 3730 Spenard Road, Anchorage, Alaska, T13N, R4W, SW 1/4 Sec.25, S.M. (See Attachment A., Vicinity Map)

The actual tank removal, field screening, and sample collection for laboratory analysis took place on August 21, 1992.

W.M.Massengale and Bonnie Morad, 2900 Boniface Pkwy, Su. 740, Anchorage, Alaska, 99504, were WEC's site investigators for this project which was conducted in accordance with WEC's Alaska Department of Environmental Conservation (ADEC) approved QAPP.

TANK OWNERS:

The facility is owned by Floyd & Sons Inc., Anchorage, Alaska and was listed as having ID # 0-000825. Clair Floyd was the owner's representative for this project and may be reached at, Thrifty Car Rental, 3730 Spenard Road, Anchorage, Alaska 99517, phone number (907) 276-2844.

SITE HISTORY:

The underground gasoline fuel storage tank was located in the parking lot on the east side of the Thrifty Car Rental building. The tank was located approximately 48 ft. east of and 10 ft. south of the building's southeast corner. The tank was installed in January of 1984 and was listed as apx. 4,000 gal. in size and of steel construction. No information was available concerning the tank's installer. The tank was used by Thrifty's personnel for the storage of gasoline fuel and for fuel removed from rental cars prior to shipment to the lower 48. There was a single vent and a single gravity fill pipe for the tank. The fill was directly above the south end of the tank and the vent was located alongside the fence near the property's southeast corner. The long dimension of the tank was oriented in an north-south direction. One fuel product line exited the tank from a fitting located on the north end of the tank. This product line lead to a dispenser located over the southwest corner of the tank excavation. (See Attachment C., Field Notes and Site Drawing)

In October of 1989 Thrifty Car Rental was informed by their consultant, Shannon & Wilson, that their "Site Inspection..." conducted to evaluate the site for "Gasoline Contamination From An Underground Storage Tank" (UST) had detected a probable release from the UST.

Thrifty Car Rental performed a Corrective Action which consisted of the excavation of contaminated soil found in the vicinity of the dispenser piping. This piping was also removed and replaced with new cathodically protected steel piping.

Three water monitoring wells on site and one to the east of the

Page 4

site where subsequently installed. Recent water sampling of these wells by WEC indicated high levels of volatile organics in the ground water.

In order to verify the source and limit any future potential releases of hydrocarbon fuels to the environment, Thrifty Car Rental removed the 4,000 gal. gasoline tank.

SITE HYDROLOGY:

The approximate ground elevation of the site is 90 ft. to 93 ft. above sea level.

Recent groundwater sampling by WEC determined the top of ground water to be approximately 11.5 ft. below ground surface (bgs), at the site. No ground water was present during the tank excavation and no attempt was made to sample the groundwater because, monitoring well #2, located approximately 3 ft. north of the excavation, had been sampled the month prior to the tank removal.

SITE GEOLOGY:

The Spenard area is believed to be underlain by soft sedimentary rocks. The observed surficial deposits were primarily sands-SW with minor amounts of interbedded gravely sand. It is believed that the groundwater at the site is a perched aquifer overlying the Bootlegger Clay/Silt Formation located 22.5 ft. bgs. (see Shannon & Wilson report of 11/14/89.

At the facility the top 1.5 ft. consisted of approximately 1.5 inches of asphalt and import gravel fill. Below this layer began the native soils which were composed of sand-SW.

Fill in the tank pit was native soil below the top of the tank and pea gravel above the tank and around the piping.

SITE INSPECTION:

Site inspections were performed on the site prior to tank excavation and during tank removal. The inspection during removal was conducted on August 21, 1992. The tank was removed later in that same day.

No obvious leaks or contamination were observed in the area or at the fill or vent's exposed piping. (See Attachment B., Site Pictures)

TANK AND PIPING REMOVAL:

One tank was removed from the facility. It was apx. a 4000 gal. tank with a diameter of 6 ft. and a length of 17 ft.

There was approximately 3 ft. of fill covering the tank. The tank was oriented with its long dimension in a north-south direction. The fill was located on the south end of the tank at

Page 5

ground level and had an overspill bucket attached.

The excavation was apx. 23 ft. long and 12.5 ft. wide and 10 ft. deep when completed. (See Attachment B, Site Pictures and Attachment C, Site Drawing)

One wrapped steel fuel line apx. 1.5 inches in diameter, was attached to the tank with wrapped threaded pipe fittings located on top of the north end of the tank. This line went to a dispenser located at the southwest corner of the tank excavation. The product piping was cathodically protected and had a 50 lb. sacrificial anode attached to the piping at the north end where it joined the tank.

The tank was in good condition and the piping in excellent condition; both showed no signs of having leaked. A hydrocarbon odor was detected in the bottom of the excavation. (See Attachment B., Site Pictures)

SOIL AND GROUNDWATER OBSERVATIONS:

During tank excavation and removal no obvious signs of leaking such as soil discoloration were observed. However, their was a slight hydrocarbon odor from the excavated soil.

A hydrocarbon odor was detected in the bottom of the excavation after the tank was removed and some discoloration was visible at the north end of the excavation after the tank had been removed. No groundwater was encountered during the tank removal.

INVENTORY CONTROL AND REPAIR RECORDS:

Inventory control and tank repair records were requested by WEC from the tank owner. WEC was informed that none were available.

FIELD SCREENING:

Twelve samples were collected per WEC's QAPP at the site for field screening during excavation for tank removal. A GASTECH model 1314 calibrated to hexane was used to obtain ppm TLV readings from the field screening samples. Readings on the field screening samples generally were from 15-200 ppm for soils removed from the tank excavation above the tank. A sample was taken from the soil with the highest field screening reading and sent to the laboratory for analysis. This laboratory sample is labeled STKP-1. Readings taken on soil samples from below the tank were generally in the 18->500 ppm range. The area under the tank with the highest readings was located at the north end of the tank and this area was subsequently sampled for laboratory analysis and labeled sample #TC-2 NW Cor. (See Attachment C., Field Notes & Site Sketch)

SAMPLES COLLECTED FOR LABORATORY ANALYSIS:

Four samples were collected per WEC's QAPP for laboratory analysis. Two of the samples, numbers TC-3 & TC-2 were from the bottom of the tank excavation all within 2 ft. below the tank's bottom at approximately 10 ft. bgs. One of these was from underneath the center of the tank and the other sample was from the north end of the tank excavation. The third sample, number TC-1D, was taken from under the dispenser approximately 1.5 ft. below ground surface (bgs). Sample STKP-1, the forth soil sample, was taken in the area of highest field screening readings, in the stockpiled overburden. The various sample depths and locations are depicted in Attachment C, "Field Notes & Site Sketch".

SAMPLE TRANSPORT:

All samples for laboratory analysis were sealed, placed on ice in an insulated cooler, sealed, and transported under chain-ofcustody per WEC's QAPP. A copy of the chain-of-custody document is in Attachment D, "Chain-of-Custody Document".

SAMPLE ANALYSIS:

All samples were analyzed using EPA methods 5030/8015/8020. Sample analysis was performed by North Creek Analytical Laboratory (NCAL) located in Bothell, Washington. NCAL has approved SOPs on file with ADEC.

The results are presented in the "TABLE A ANALYTICAL RESULTS" located on page 7 and the laboratory transmittal is in Attachment E., "Laboratory Results".

TABLE /	4
ANALYTICAL	RESULTS

ANALYTICAL METHOD	8015 Mod	8020	
METHOD DETECTION LIMIT	1 ppm VPH	0.05-0.10 TOTAL BTEX	Benzere
SOIL SAMPLES			
TC-1D	1.2 ppm	0.081 ppm	MD
TC-2 NW Cor (in Vadose zone)	940 ppm	236.30 ppm	1,3
STKP-1 Back in excapilation	29 ppm	2.68 ppm	ND
TC-3C	28 ppm	3.80 ppm	NUD

ND= None Detected at methods detection limits VPH= Volatile Petroleum Hydrocarbons ppm= parts per million BTEX= benzene, toluene, ethyl benzene, xylene

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SITE SKETCH:

A site sketch is provided in Attachment C, "Field Notes & Site Sketch" and as-built drawings may be found in Attachment A. They show the location and configuration of the tank and piping, sample locations and the tank site's proximity to buildings. The facility and property boundaries are presented in Attachment A along with other pertinent site information.

CLIMATOLOGICAL CONDITIONS:

Weather during the tank removal was cool and partly cloudy with intermittent rain and little apparent wind.

TANK EXCAVATION BACKFILL:

Overburden from the tank excavation was placed back into the excavation and compacted. A 6 mill plastic liner was then installed and new uncontaminated import fill placed in the excavation on top of the liner and compacted. The site was then capped with base and asphalt which should minimize the downward migration of any contaminate to the vadose zone, through the agent of precipitation percolating through the sandy soil.

COMMENTS:

The presence of an unauthorized release was detected during analysis of the soil samples by the laboratory. ADEC should be notified of the release and advised that the tank removal was a corrective action and precaution, to mitigate any potentially harmful effects to human health or the environment.

The minor soil contamination found in the excavated tank overburden, may have been the result of product leaking from the old dispenser piping prior to its replacement. The higher levels of contamination found in the vadose zone under the tank are of undetermined origin. The tank was in good condition and showed no signs of having leaked. The high levels of BTEX relative to the low levels of VPH found above the vadose zone may indicate BTEX contaminated groundwater migration from an off site source.

This site assessment was conducted and this report was prepared in accordance with WEC's ADEC approved QAPP and is for the benefit of Floyd and Sons and is not for public distribution except were required by law.

W.M.Massengale

10/18/92_____ Date

Environmental Manager Certified Hazardous Materials Manager

Alfrad Bonnie Neher Morad, Environmental Scientist

10/18/92

ATTACHMENT A VICINITY MAP

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ATTACHMENT B SITE PICTURES

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THRIFTY CAR RENTAL TONY REMOVAL THRIFTY CAR RENTAL TANG REMOUND VIEW EAST-LARGE C.C. BLOCK TANK EXERVATION VIEW LOOKING SOUTH IS THE DISPENSER BASE OPEN AREA IS TANK EXCAVATION THRIETY CAR RENTAL TANK REMOVAL THARFTY EAR RENTAL TANK REMOVAL 4 poor gal. APXIT'X 6'DIA. WITH VIEW LOOKING JE AT HOUES OUT BOTH ENDS LOADED PLASTIC LINED & BACKFILLED FOR TRANSPORT TO AR METAL RECYC. EXCAVATION

ATTACHMENT C FIELD NOTES AND SITE SKETCH

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This Rly CAR RENTAL cit partly sonny \$ M.MASSEVGALE (: 1) Mr. Horad 8:21.92 4,000 gcl. Think Removal AU. 6 21. 12 TANK EXCAVATION DRAWING 1: d'o Screen Time TLV DEPTH Time ASPALT SURFACE July Prid Rood ... SAMAPIE per part od CURRENROWESD 15 ppm 1 N3' 0903 13 ~3' 0906 2 831 20,00 231 3 832 0907 60 TCZ LI 1100 70 1110 17 35 5 1101 11 13 111. INS 200 pp 6 1102 23.2 Δ 1' S 101 1130 DISPENSER (9) 7 \bigcirc >500 10' 1515 1537 11/18/ DNAJ 6 >500 11 \bigcirc 1510 10' 1540 48' N.T.S. (9 263 pp 10' 1516 1548 0 GREEN 10 >Sppn 10' 1517 1349 $\langle \rangle$ 11 1316 10' 1555 60 ppm 0 3' 18 ppm 1519 1600 12 12 StKP-1 \triangle strp-1 1100 200 ppm NORTH END TONP Δ 10' TC2 1520 TANK 17 Long . TANK CRUTE TC3 1516 10' By 6' diam. GATE. G'CHAIN LINK \bigcirc = SCRETENING SAMPLES DRIVEWOY FENCE = SOIL SAMPLES FROM HIGHEST \wedge FIELD SCREENING AREAS SENT TO MABORATORY FOR AMILYSIS 8015/8020 SCALL £--6'---SPENARD RD

THRIFTY CAR RENTAL Ø M. MASSENGALE (38) 50:18-21-52 4,000 GAL. GASOLINE THE REMENT TAJ B. MORAD DO M. MASSENGALE !! Siret 18" duit brown sandy grovel. 1. OWNER = FLOYOF SONS INC (most lizely import & III) 3730 SPENARD RO. below 18" a roules sand & sand. some loxes of grand but Anchotage, plaska 199517 2. FALILITY J mostly sand. SI 3, SLIGHT HYDROCARBON COOR IN OVERBURDEN Stight hydrocarbon oder Northwood 4. PAPINE IN EXCELLENT SHAPE + when all enclargation. COTTIOUIGALY PROTECTRA 5. TANK IN GOODSHAPE NO APPARENT SOIL LOG HOLES A.C. SURFACE 6. STRONG HYDRUCARBON ODOR GP Rea gravel on top of UNDER NORTH END OF TANG Some mits or gravely sand bob 7. No ground water present Sw 8. 3-7'or Cover over tank 9. Bottom of Tank Rpx, 9'DEEL 10. DEPTH TO EROUND WATER 11,5' BGS. 11, Per Gravel around Piping - matine Sand backfill around Tahi 12, 4,000 gal Dasoline tank normored by See Coast Const. excavating contractor 13. No tank inventory records exist. 14. AGE OF TANK 13. Installed by 16. Modifications 16.0. 64

ATTACHMENT D CHAIN-OF-CUSTODY DOCUMENT

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NORTH CREEK ANALYTICAL.

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CHAIN OF CUSTODY REPORT

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CLIENT: thrifty C:	AR Renta	l		REPO	RT TO: U	Jeste	1. E	NUire	munal	d	he	SAME DAY (2-8	HR.) RUSH	(+150%)	
ADDRESS: 3930 Sponar	d Rd			10	Mark	ale.	1380	ng	(ela			NEXT DAY RUSH		(+100%)	
Anch, AK	mart	HA 740		BILL	ING TO:			U				2 DAY RUSH		(+80%)	
WEC 2900 0	DNIFACE.	# 110		P.0.	NUMBER:							3 DAY RUSH		(+60%)	
PHONE: 907 274 - 9708	FAX: 907			NCA	QUOTE #:							5 DAY RUSH		(+40%)	
PROJECT NAME							VCIC P	FOLIES	TED			10 DAY STAND	APD	(LIST DRICE)	X
				02								TO DAT STAND		(LIST PRICE)	
SAMPLED BY: An in Wi	1. 11.	Ĺ		8								DRESERVAT	NIS &	LAPOPATOR	~
SAMPLE IDENTIFICATION:	SAMPLING	MATRIX	# OF	15								PRESERVAI	IVES USED	NIMBER	
NUMBER OR DESCRIPTION	DATE / TIME	(W,S,O)	CONT.	1 and 1										HONDER	
1TC-10	8-21-92/1150	5	1	X										20817.48	
2 TC-2 NW Cor	8-21-92/15.20	5	1	X										2081249	
3 STKP-1	8-21-92/1100	5	1	X								262.57		2081250	
4TC-3C	8-21-72/1516	S	1	X										2081251	
5															
6															
7															
8															
9												TOTAL # OF CO	NTAINERS		
10						100						RECEIVED?	2		
RELINQUISHED BY: Frenie Put	- glend		DATE: 8	-21-	92		RECEIN	VED BY	1:21	perc	M	loosengel	DATE:	8/21/92	-
FIRM: EU			TIME:	755			FIRM:	wa	STER	EN E	NV.	CONSULTAN	TS TIME:	17:55	
RELINQUISHED BY: Smarch	nessengela		DATE: 8	23	192		RECEIN	VED BY	1: Ft	Nee	ly		DATE		
FIRM: Woslern Env, Con	rultant		TIME: 1	2:4:	5		FIRM:				0		TIME		
SAMPLE RECEIPT INFORMATION:	CONT	INER CONDI	TION?:	GOOD	VIO	ATED			C00	L (4°	C)?	YES NO			
CUSTODY SEALS? GOOD VIOLA	TED NOT USED		HAZARDOU	S SAM	PLES?:	NO	YES;	DESCR	IBE ON	BACK			PAGE	OF	

ATTACHMENT E LABORATORY RESULTS

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Western Environmental	Client Project ID:	Thrifty Car Rental	Sampled:	Aug 21,	1992
2900 Bonface, #740	Matrix Descript:	Soil	Received:	Aug 25,	1992
Anchorage, AK. 99504	Analysis Method:	EPA 5030/8015/8020	Analyzed:	Sep 3,	1992
Attention: Marc Massengale	First Sample #:	208-1248	Reported:	Sep 9,	1992

TOTAL PETROLEUM HYDROCARBONS with BTEX DISTINCTION (ALASKA TPH-G/BTEX)

Sample Number	Sample Description	Volatile Hydrocarbons mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)	Surrogate Recovery %
208-1248	TC-1D	1.2	N.D.	0.081	N.D.	N.D.	90
208-1249	TC-2 NW Cor	940	1.3	53	22	160	113
208-1250	STKP-1	29	N.D.	0.26	0.22	2.2	93
208-1251	TC-3C	28	N.D.	0.10	N.D.	2.8	89
BLK090392	Method Blank	N.D.	N.D.	N.D.	N.D.	N.D.	93

Detection Limits:	1.0	0.050	0.10	0.10	0.10	
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Volatile Hydrocarbons are quantitated as gasoline range organics (nC6 - nC10). Surrogate recovery reported is for Bromofluorobenzene. Analytes reported as N.D. were not present above the stated limit of detection.

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Scot Cocanour Laboratory Director

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Western Environmental	Client Project ID:	Thrifty Car Rental			
2900 Bonface, #740	Matrix:	Soil			
Anchorage, AK. 99504	Analysis for:	Total Solids	Received:	Aug 25,	1992
Attention: Marc Massengale	First Sample #:	208-1248	Reported:	Sep 9,	1992

Total Solids

LABORATORY ANALYSIS FOR:

Sample Number	Sample Description	Sample Result %
208-1248	TC-1D	92
208-1249	TC-2 NW Cor	93
208-1250	STKP-1	95
208-1251	TC-3C	87

North Creek Analytical routinely provides analytical results for soils, sediments or sludges on a WET WEIGHT "as received" basis. To attain dry weight equivalents for regulatory compliance, divide the soil result by the decimal fraction of percent solids. The results in this report apply only to the samples analyzed, as indicated on the custody document. This analytical report is to be reproduced only in its entirety.

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Western Environmental	Client Project ID: Thrifty Car Rental	Analyst:	R. Lister	20000
2900 Bonface, #740	EPA Method: 5030/8020		K. Wilke	20000
Anchorage, AK. 99504	Sample Matrix: Soil			00000
Attention: Marc Massengale	Units: mg/kg (ppm)	Analyzed:	Sep 3, 1992	200
	QC Sample #: 209-0222	Reported:	Sep 9, 1992	20
				20

QUALITY CONTROL DATA REPORT

ANALYTE			Ethyl			
	Benzene	Toluene	Benzene	Xylenes		
Sample Conc.:	N.D.	N.D.	N.D.	N.D.		
Calles Cana						
Added:	0.50	0.50	0.50	0.50		
Added.	0.00	0.00	0.00	0.00		
Cono Matrix						
Spike:	0.47	0.50	0.48	0.52		
opinoi	0.11	0.00	0.10	0.01		
Matrix Spiko						
% Recovery:	94	100	96	104		
Conc Matrix						
Spike Dup.:	0.46	0.48	0.46	0.51		
Matrix Snike						
Duplicate						•
% Recovery:	92	96	92	102		
Upper Control						
Limit %:	92	95	110	110		
ower Control						
Limit %:	53	61	73	67		
Relativo						
% Difference:	2.2	4.1	4.3	1.9		
Maximum						
RPD:	15	14	10	19		
ORTH CREEK AN	ALYTICAL in	C % Recovery:	Conc	of M.S Conc. of Sample	x 100	
1			00.10.	Spike Conc. Added	_	
toten		Polotivo % Differences	Care	ME Cope of MED	× 100	
cor Cocanour		Helative % Difference:	(Conc. of	M.S. + Conc. of M.S.D.) / 2	x 100	
aboratory Director			1.00.01		2021242	100000/ -2>

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