

~~DRAFT~~
FINAL

*This Package
SENT*

Roza Irrigation District

CORNER OF 13th STREET and BLAINE AVENUE • P. O. BOX 810 • SUNNYSIDE, WASHINGTON 98944 • PHONE 509-837-5141
FAX NO. 509-837-8541

August 3, 1990

*270 yd³ to
cheyne landfill*

Mark Peterschmidt
WDOE - Central Regional Office
3601 West Washington
Yakima, WA 98903

RE: L.U.S.T. Cleanup Action Plan

Dear Mr. Peterschmidt

Roza Irrigation District (RID) gave verbal "Notification of Release" Friday, July 27, 1990.

RID learned about the release through a site characterization study in preparation for tank replacement. Jim Ingberg, Northwest Petroleum Equipment, 265 Johnson Road, Selah, Washington 98942, (509) 697-6002 is responsible for all phases of removal and installation of our fuel facility. See the attached Bid Document.

SITE CHARACTERIZATION

As required by the contract, Jim Ingberg requested that PLSA take samples and test for the presence and extent of fuel contamination.

Prior to PLSA taking samples, RID performed soil augering to assist in characterizing the site. Please refer to the location map, site map, existing facility plan, and RID's printout of reported tanks. The location of soil augerings are shown on the existing facility plan. All augerings revealed similar soil profiles of clean very fine sandy loam covered by 1 to 2 feet of 4" minus pit run gravel (see drawing No. 001 of the Bid Document). Test pits #7, #10, #13, A, B, & C had no noticeable odor. Test pits #8, #9, #11, and #12 revealed a fuel smell below the 5' to 7' depth down to 8'. The water level was at approximately the 8' depth in all test holes. The fuel smell was strongest in test pit #8.

CONCLUSIONS DRAWN FROM SOIL AUGERING

- 1) A release was suspected with the source of release likely being tank #1.
- 2) The suspected release was confined to the area of test pits #8, #9, #11, and #12.
- 3) Take lab samples near test pit #8 (but not in the same hole).
- 4) Check for the presence of diesel and unleaded gas. Tank #1 has only stored diesel and unleaded fuel.

RESULTS OF LAB ANALYSIS

SEE ATTACHED.

CONCLUSIONS DRAWN FROM LAB ANALYSIS

- 1) A release was confirmed and the WDOE's Yakima Regional office was notified by phone.
- 2) Contamination seems to be confined to a 2 foot layer at about the 7' depth and above the free water level.

CLEANUP ACTION PLAN

- 1) Remove and dispose of offsite three existing tanks and all contaminated soil. In situ treatment was not considered a viable alternative due to the small quantity of soil contamination involved. Based upon the soil angerings and lab results the quantity of soil contaminated is estimated to be 60 to 120 yds³.
- 2) Following approval of this cleanup action plan WDOE (Clar Pratt) has agreed to approve offsite disposal of 75 yd³ at Yakima County's Cheyne Landfill.
- 3) Contaminated soil will be identified by soil color and smell which corresponded closely with the lab results.
- 4) Following removal of the initial 75yd³, the in situ soil will be tested for contamination by PLSA. If contaminated soil remains, WDOE will be contacted for permission to dispose of an identified quantity of material.
- 5) This process will be continued until the site is clean to WDOE's satisfaction.
- 6) Two new tanks will be installed to the north of RID's shop.

- 7) See the Bid Document for details on removal and disposal of the existing fuel facility and construction of a new fuel facility.

Please send a letter to Ron Pepper with the Yakima County's Cheyne Landfill with your permission to dispose of 75 yd³ of contaminated material.

Thank you for your assistance in this process. Please contact me if you have any questions or comments.

Sincerely

A handwritten signature in cursive script, appearing to read "Don Schramm", followed by a horizontal line.

Donald L. Schramm, PE
District Engineer

DS:kn
enclosure

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4630 PACIFIC HIGHWAY EAST, SUITE B-14, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: PLSA Engineering

Date: July 24, 1990
Revised: July 26, 1990

Report On: Analysis of Soil

Lab No.: 12321

IDENTIFICATION:

Samples Received on 07-19-90

Project: 90157

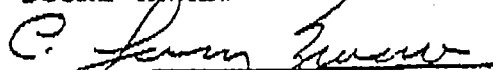
ANALYSIS:

Lab Sample No.	1	2	3	4
Client Identification	Sample #1	Sample #2	Sample #3	Sample #4
Matrix/Units	Soil ppm	Soil ppm	Soil ppm	Soil ppm
Benzene	0.11	1.00	0.84	< 0.05
Toluene	< 0.05	6.41	4.18	< 0.05
Ethyl Benzene	< 0.05	8.11	5.46	< 0.05
Xylenes	0.29	39.8	27.5	0.44
BTEX by EPA SW-846 Method 8020				
Total Petroleum Fuel Hydrocarbons by EPA SW-846	NT	45,801	NT	NT
TPH as		Gasoline & Diesel		

NT = Not Tested

Original Lab Report was revised to include additional TPH testing

SOUND ANALYTICAL SERVICES


C. LARRY ZUBAW

SOUND ANALYTICAL SERVICES, INC.

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Report To: PLSA Engineering

Date: July 24, 1990

Report On: Analysis of Soil

Lab No.: 12321

IDENTIFICATION:

Samples Received on 07-19-90

Project: 90157

ANALYSIS:

	6'	6 ⁵ '	7'	8'	
Lab Sample No.	1	2	3	4	
Client Identification	Sample #1	Sample #2	Sample #3	Sample #4	
Matrix/Units	Soil ppm	Soil ppm	Soil ppm	Soil ppm	Clean-up levels Ind. Soil
Benzene	0.11	1.00	0.84	< 0.05	0.5
Toluene	< 0.05	6.41	4.18	< 0.05	40
Ethyl Benzene	< 0.05	8.11	5.46	< 0.05	14
Xylenes	0.29	39.8	27.5	0.44	200
BTEX by EPA SW-846 Method 8020					

SOUND ANALYTICAL SERVICES

C. LARRY ZURAW

Att Mark R.

FAX 425-4327

Table 3
Method A Industrial Soil Cleanup Levels - Industrial Soil

Hazardous Substance	CAS Number	Cleanup Level	
Arsenic	7440-38-2	200.0 mg/kg	mg/kg ppm
Benzene	71-43-2	0.5 mg/kg	
Cadmium	7440-43-9	10.0 mg/kg	
Chromium (Total)	7440-47-3	500.0 mg/kg	
DDT	50-29-3	5.0 mg/kg	
Ethylbenzene	100-41-4	14.0 mg/kg	
Ethylene dibromide	106-93-4	0.05 mg/kg	
Lead	7439-92-1	1000.0 mg/kg	
Lindane	58-89-9	20.0 mg/kg	
Methylene chloride	75-09-2	0.5 mg/kg	
Mercury (inorganic)	7439-97-6	1.0 mg/kg	
PAHs (carcinogenic)		20.0 mg/kg	
PCB Mixtures		10.0 mg/kg	
Pentachlorophenol	87-86-5	10.0 mg/kg	
Tetrachloroethylene	127-18-4	0.5 mg/kg	
Toluene	108-88-3	40.0 mg/kg	
TPH (gasoline)		100.0 mg/kg	
TPH (diesel)		200.0 mg/kg	
TPH (other)		200.0 mg/kg	
1,1,1 Trichloroethane	71-35-6	20.0 mg/kg	
Trichloroethylene	79-01-5	0.5 mg/kg	
Xylenes	1330-20-7	200.0 mg/kg	

(b) Concentrations established under applicable state and federal laws;

(c) Any other concentrations which the department determines are necessary to protect human health or environment.

(3) Method B compliance cleanup levels. Compliance cleanup levels for soils established using method B shall be at least as stringent as all of the following:

(a) Concentrations established under applicable state and federal laws;

SOUND ANALYTICAL SERVICES, INC.

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QUALITY CONTROL REPORT

DUPLICATES

Lab No: 12321
Date: July 24, 1990
Client: PLSA Engineering

Client ID: Sample #4
Matrix: Soil
Units: ppm

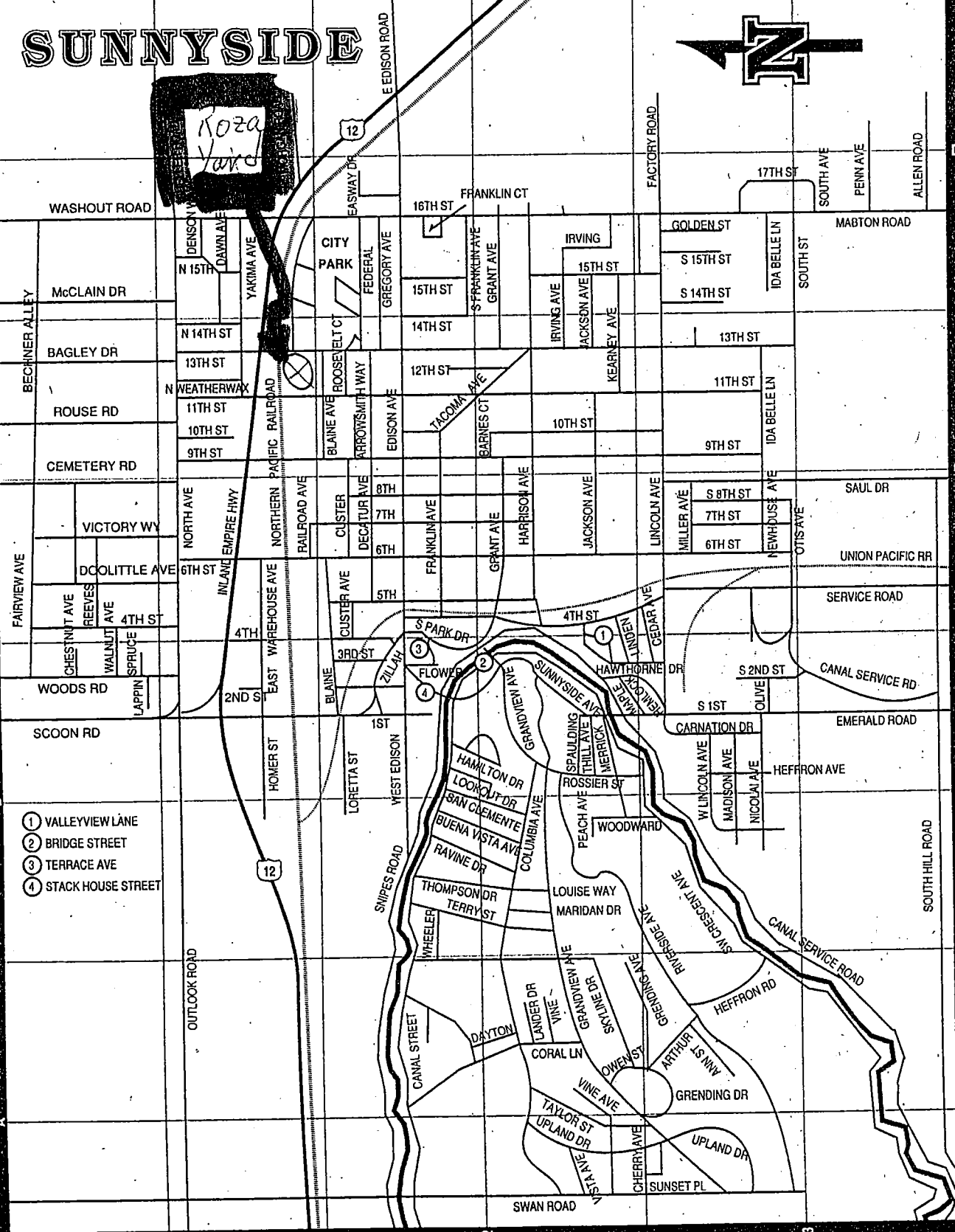
Compound	Sample(S)	Duplicate(D)	RPD*	
Benzene	< 0.05	< 0.05	----	
Toluene	< 0.05	< 0.05	----	
Ethyl Benzene	< 0.05	< 0.05	----	
Xylenes	0.44	0.42	4.8	

*RPD = relative percent difference
= $[(S - D) / ((S + D) / 2)] \times 100$



SUNNYSIDE

Koza
Yakima



- 1 VALLEYVIEW LANE
- 2 BRIDGE STREET
- 3 TERRACE AVE
- 4 STACK HOUSE STREET

Location Map

OWNER'S NAME = ROZA IRRIGATION DISTRICT
 OWNER'S ADDR = P.O. BOX 810 13TH & BLAINE
 CITY, ST ZIP = SUNNYSIDE , WA 989440810

PLEASE EXAMINE THIS INFORMATION CAREFULLY!

SITE #	SITE NAME AND ADDRESS	# OF TANKS REPORTED	TANK ID #	TANK SIZE (000'S)	YEAR INSTLD	TANK STATUS
007428	LOWER WATERMASTER OFFICE T 10N R 25E NE1/4 NE1/4 PROSSER WA	1	1	1 - 5	73	ACTIVE
007429		3	1	.5 - 1	56	ACTIVE
			2	.5 - 1	56	ACTIVE
			3	5 - 10	56	ACTIVE
007430	UPPER WATERMASTER OFFICE T 12N R 20E NW1/4 SE1/4 MOXEE CITY WA	1	1	1 - 5	73	ACTIVE

T.P. #10 ↑ 30'

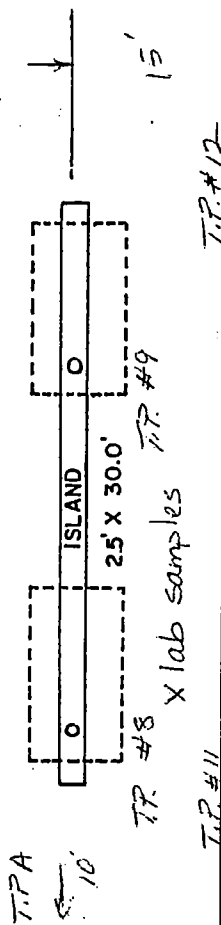
T.P.C

550 gal.

UL Tank

675 gal.

REG Tank



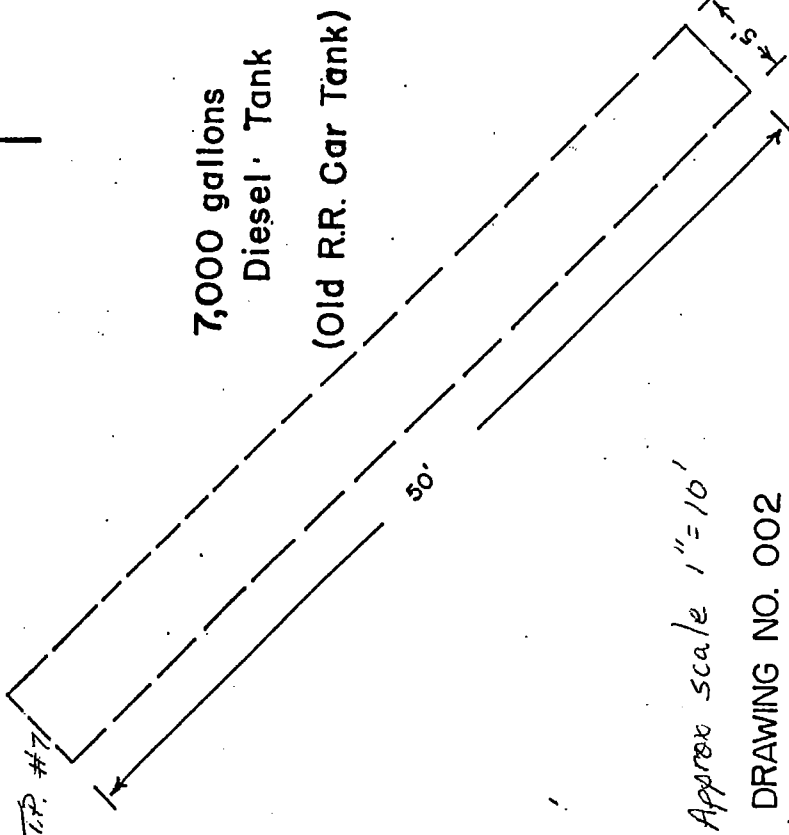
X lab samples

T.P. = Test pits using
2" soil auger

SHOP

EXISTING FACILITY PLAN

T.P. B



Approx scale 1"=10'

DRAWING NO. 002

ROZA IRRIGATION DISTRICT

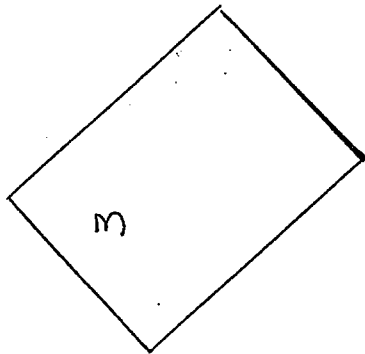
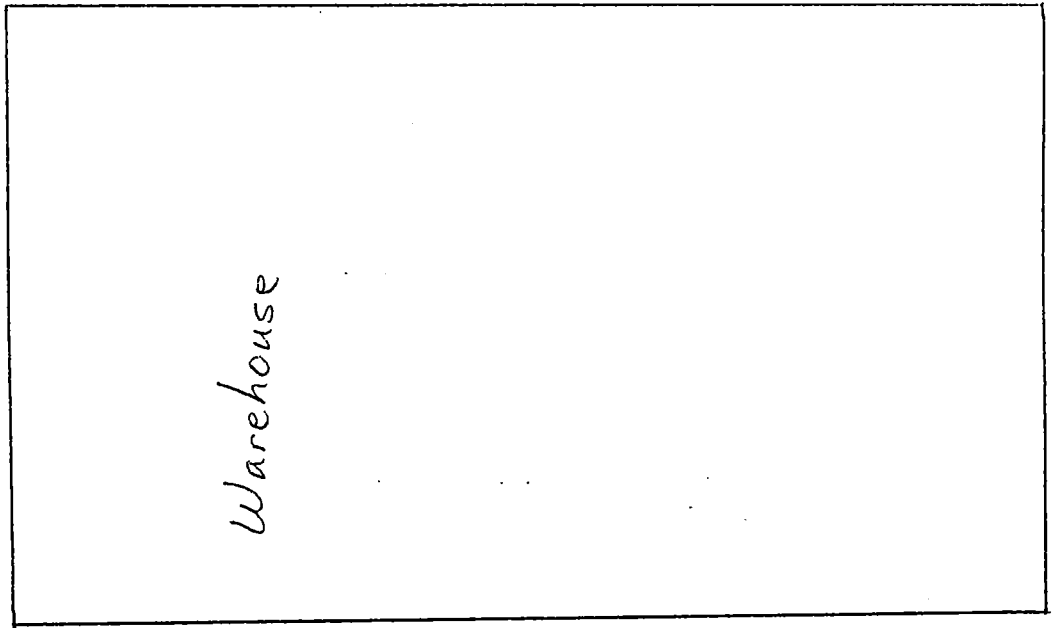
SUNNYSIDE, WASHINGTON

3 TANKS & ISLAND TO BE REMOVED

AT 125 13TH AVE., SUNNYSIDE, WA.

DATE: JUNE 6, 1990

DR. BY: K. NEUMAN



Sunnyside

