Site Assessment

Conway Feed
2110 Jones Street
Conway, WA

Prepared for
Conway Feed
P.O. Box 576
Conway, WA

Prepared By
Materials Testing & Consulting, Inc.
P.O. Box 309
Mount Vernon, WA 98273
February, 1992

I. Introduction

On December 11, 1991 and January 6, 1992 a site assessment for two underground storage tanks (USTs) was made at Conway Feed located at 2110 Jones Street in Conway, WA (see Vicinity Map & Figure 1). The tanks were being removed to come into compliance with current state regulation for UST's. The tanks, one 2000 gallon used for diesel storage and one 1000 gallon used for gasoline storage were installed about twenty-five years ago. The owner indicated that to his knowledge there had been no known leakage from the tanks. No complaints of leakage were make prior to the removal process.

The site is located in the Skagit River Flood Plain on level ground. Native soils in the area consist of clayey silts and fine sandy silts. The tanks were buried beneath concrete and asphalt pavement. We encountered the water table at the four to five foot depth. The condition of the tank site along with supporting analytical data is described.

II. Field Observations and Chemical Analysis

The tanks were located in a common pit below a concrete slab as shown in Figure 2. Petroleum vapors were obviously present during the removal process. Excavations were carried to the limits of contaminated soils on the east, south, and north sides of the pit. It was not possible to remove the contaminated soils on the west side of the pit because they provided support for a large steel canopy leading into the maintenance shop. Samples of the contaminated soils on the west side of the pit were taken to verify the degree of contamination and a monitoring well was also placed on the west side of the pit to check the level of ground water contamination.

Both tanks exhibited corrosion at the base with holes from one quarter to one inch in diameter. The diesel tank had several holes in the base of the tank at the south end. The gasoline tank had one visible half inch diameter hole on the base of the tank at the north end. A sample of soils taken eighteen inches below the base of the corroded tanks in the silty clays showed some minor diesel contamination. Native soils to a depth of eighteen inches were removed below the tanks.

III. Conclusions and Recommendations

Two USTs, one 2000 gallon and one 1000 gallon, were removed and the surrounding soils were found to be contaminated. To the extent possible contaminated soils were removed and land farmed. The remaining contamination extends under covered canopy area on the west and could not be removed due to structural and safety considerations.. A monitoring well was placed on the west side of the test pit and sampled February 25, 1992. No contamination of the ground water was found at that time, but we will continue to monitor the well. We would not recommend further action being taken on the soils located below the canopy support unless subsequent water samples show evidence of extensive contamination.

IV. Limitations

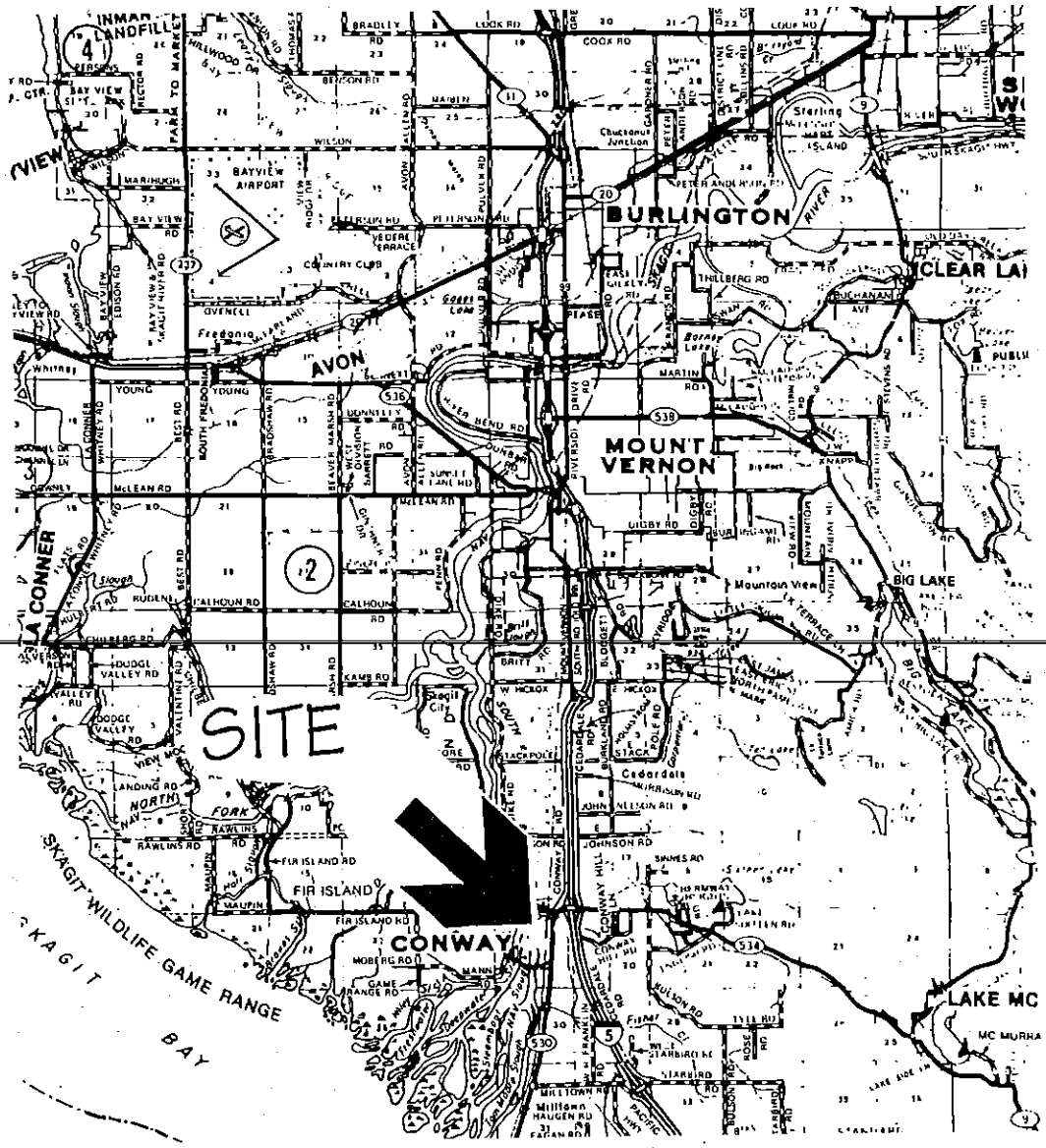
This report has been prepared for the specific application to this project and for the exclusive use of Conway Feed and their representatives. The conclusions are based on the site conditions observed and analytical results. The conclusions and recommendations are professional opinions derived in accordance with current standards of practice within the scope of our services and within the budget and time constraints. No warranty is expressed or implied.

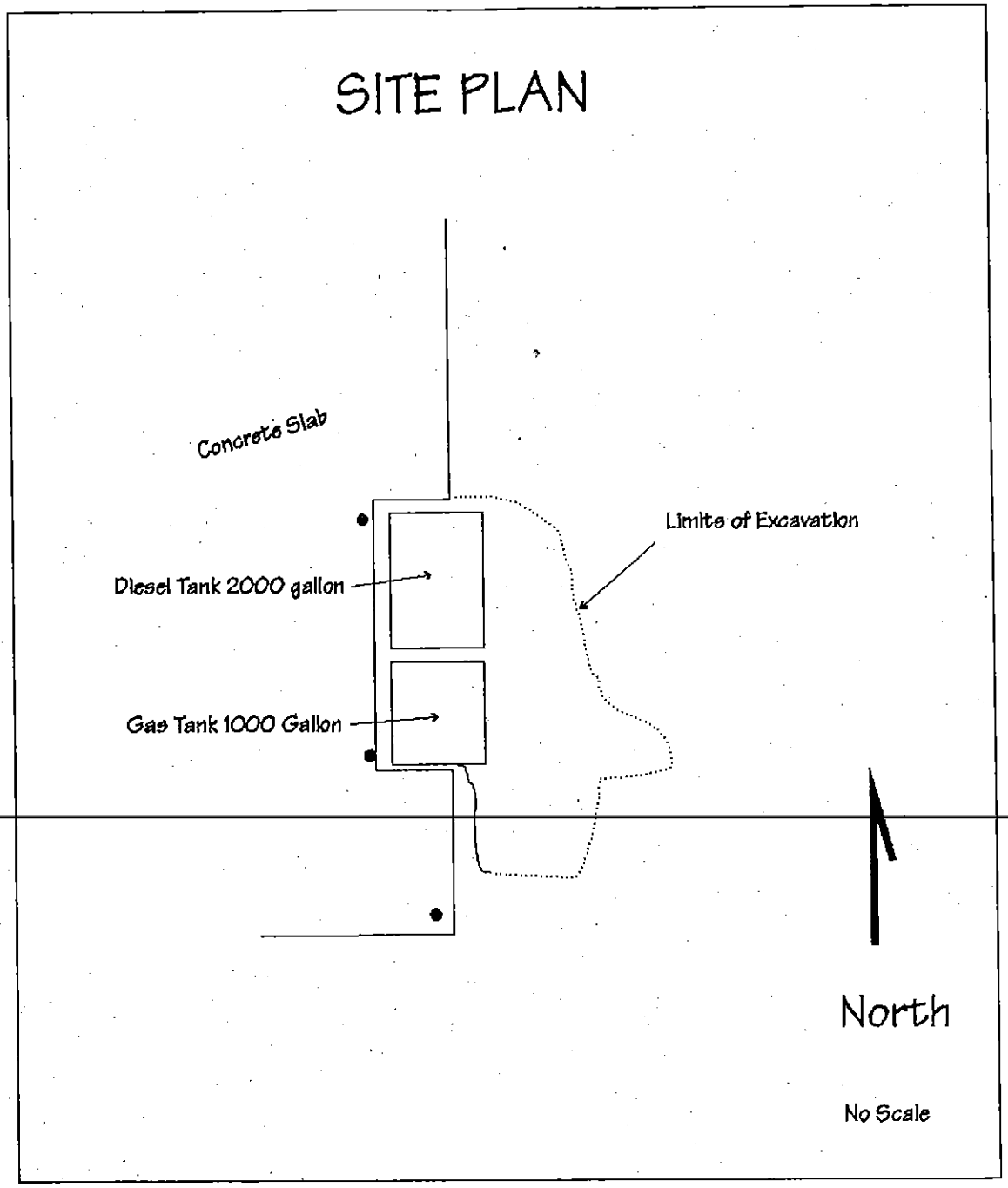
Should there be any questions of if we can be of further service please feel free to call.

Respectfully submitted,

Patrick Miller, Site Assessor

VICINITY MAP





Conway Feed
2110 Jones St
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Figure 1

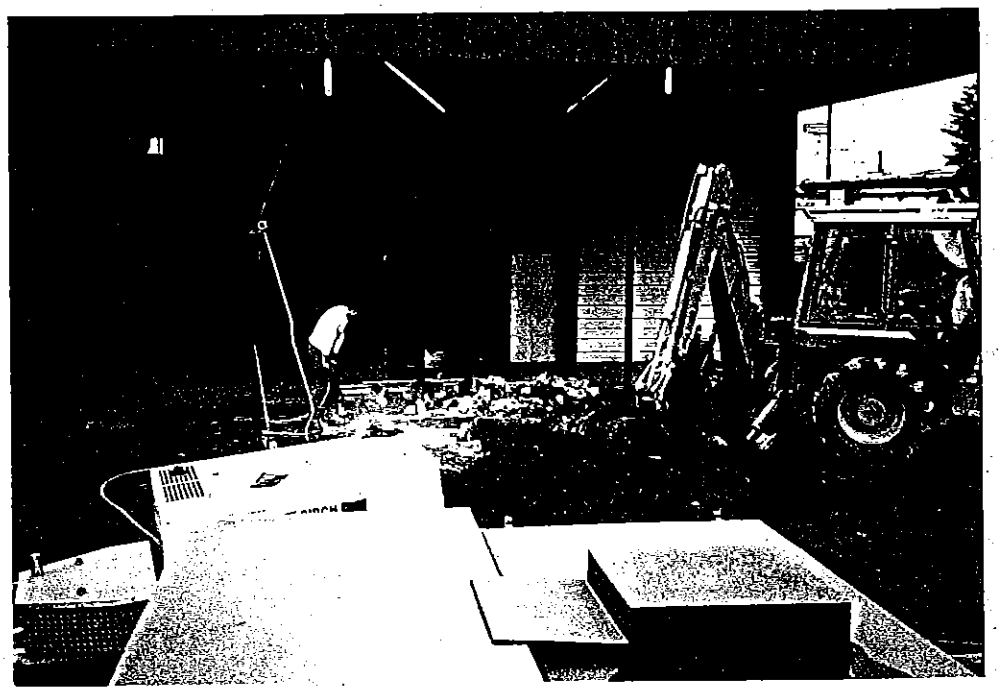

Figure 2. - Initial excavation looking west.

Figure 4. - Removal of 2000 gal. Diesel Tank

Figure 5. - 2000 Gal. Tank after removal.

Figure 6. - 1000 Gal. Tank after removal.

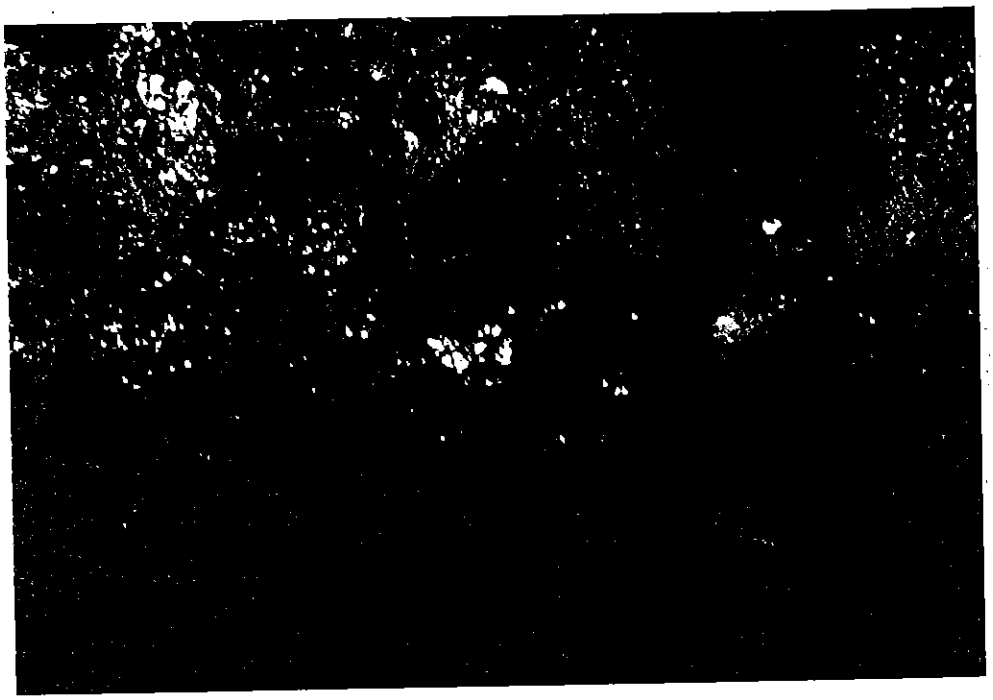

Figure 7. - Typical corrosion. Also note hole in tank.

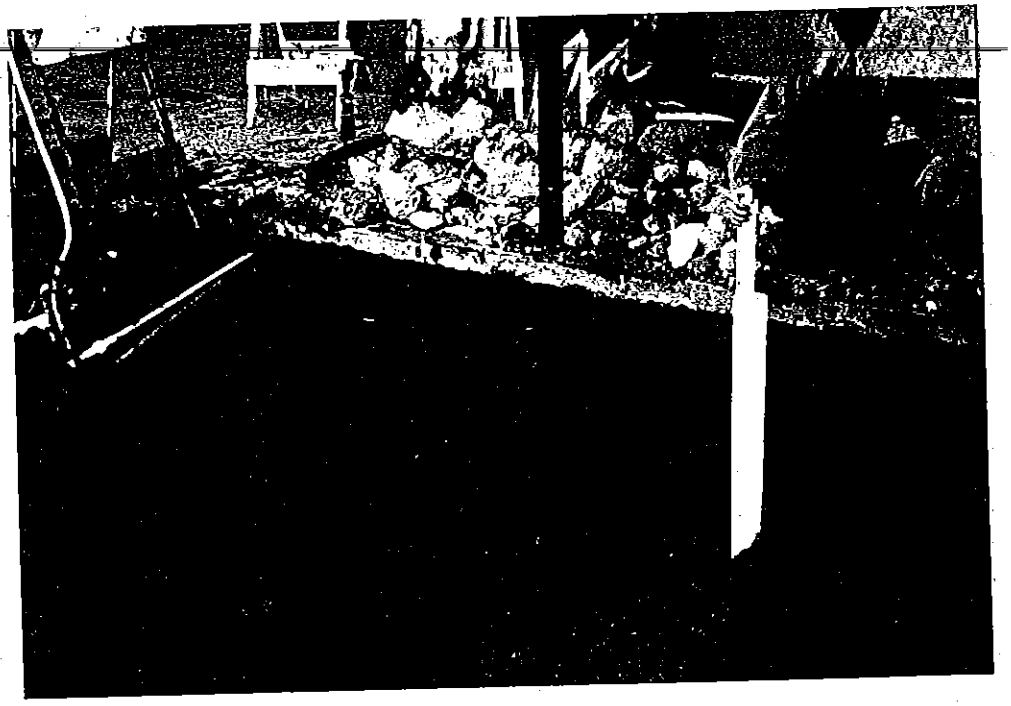

Figure 8. - Monitoring Well on west pit wall.

Table 1. Analytical data from Conway Feed Underground Storage Tank Removal. Samples Collected on December 11, 1991, January 6, 1992, and February 25, 1992.

		ppm	ppb			
Lab Number	Description	TPH	Benzene	Toluene	Ethlybenzene	Xylenes
12-91-02472.0S	18" below base 1000 gal tank.	23-D	<10	<10	<10	<10
12-91-02473.0S	3.5' depth west wall by 1000 gallon tank	1646-G 552-D	16142	52158	106241	262148
12-91-02474.0S	3' depth west wall N end of 2000 gal tank	1279-G 310-D	12142	52158	106241	191284
12-92-00018.0S	East wall 4.5' depth	<10	<10	<10	<10	<10
12-92-00562.0W	Water from monitoring well	<0.1	<1	<1	<1	<1
	Maximum Contamination Levels (Water/Soil)	1/100	5/500	20/20000	40/40000	20/20000

Methods - SW-846 methods 8020 and 8015 modified

MTC *Analytical/Environmental Services*

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(206)424-7560 - FAX (206)424-7550

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Client: Fuel Tank Services
P.O. Box 462
Burlington, WA. 98233

Date: 12/14/91
Reference: 91-0861

Attn: Mr. Bill Nightingale

Project: Conway Feed

Data Report

Lab Number	Sample Description	ppm ug/gm TPH	ppb ng/gm Benzene	Toluene	Ebenzene	Xylenes	Surrogate % Recovery
12-91-02472.0S	18" below base 1000 gal.	23-D	<10	<10	<10	<10	103
12-91-02473.0S	3 1/2' below west wall by 1000 gal.	1646-G 552-D	16142 ppm	52158	106241	262148	96
12-91-02474.0S	3' below west wall N. end of diesel	1279-G 310-D	12142	52158	106241	191284	100
	Methods: BTEX/TPH SW846 8020/8015mod. G- Gasoline D-Diesel	Soil/Water	Soil/Water	Soil/Water	Soil/Water	Soil/Water	EPA Acceptance Limits
	Method Reporting Limit (MRL)	10.0/0.10	10.0/1.0	10.0/1.0	10.0/1.0	10.0/1.0	Soil: 84-138
	Maximum Contamination Levels	100/1	500/5	20000/20	40000/40	20000/20	H20: 88-110
		(C) 100 (D) 200	.5	10	20	20	
		30/10	.03	7	6	9	

Kurt W. Larsen
Sr. Envronmental Chemist

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Client: Fuel Tank Services
P.O. Box 462
Burlington, WA. 98233

Date: 1/6/92
Reference: 92-0007

Attn: Mr. Bill Nightingale

Project: Conway Feed

Data Report

Lab Number	Sample Description	ppm ug/gm TPH	ppb ng/gm Benzene	Toluene	Ebenzene	Xylenes	Surrogate % Recovery
12-92-00018.0S	E. Wall 4.5'	<10	<10	<10	<10	<10	98
	Methods: BTEX/TPH SW846 8020/8015mod. G- Gasoline D-Diesel	Soil/Water	Soil/Water	Soil/Water	Soil/Water	Soil/Water	EPA Acceptance Limits
	Method Reporting Limit (MRL)	10.0/0.10	10.0/1.0	10.0/1.0	10.0/1.0	10.0/1.0	Soil: 84-138
	Maximum Contamination Levels	100/1	500/5	20000/20	40000/40	20000/20	H20: 88-110

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