

Kennedy/Jenks Consultants

Engineers & Scientists

32001 32nd Avenue South
Suite 100
Federal Way, Washington 98001
253-874-0555 (Seattle)
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FAX 253-952-3435

31 October 2003

Mr. Don Abbott
Toxics Cleanup Program
Central Regional Office
Washington State Department of Ecology
15 West Yakima Avenue, Suite 200
Yakima, Washington 98902-3452

Subject: UST Removal Report
The Burlington Northern and Santa Fe Railway Company Wishram Yard
K/J 036026.00

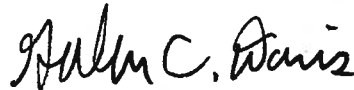
Dear Mr. Abbott:

Please find enclosed a report describing the removal of an underground storage tank (UST) at the Burlington Northern and Santa Fe Railway Company (BNSF) facility in Wishram, Washington. Although Kennedy/Jenks Consultants did not perform the preliminary soil sampling and UST removal, we have compiled the analytical results and attached a UST site assessment checklist, which was completed to the extent practicable based on available information.

On behalf of BNSF, Kennedy/Jenks Consultants is currently conducting an expanded study to evaluate hydrogeologic conditions and the extent of petroleum-containing soil remaining at the site. The results of the study will be reported under separate cover. If you have any questions, please call us at (253) 874-0555.

Very truly yours,

KENNEDY/JENKS CONSULTANTS



Galen C. Davis
Hydrogeologist



Melissa Papworth, P.E.
Vice President

Enclosure

cc: Bruce Sheppard, BNSF

UST Site Assessment and Removal Report

Wishram, Washington

**The Burlington Northern and
Santa Fe Railway Company**

**K/J 036026.00
October 2003**

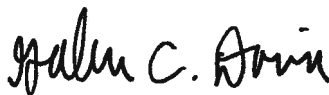
Kennedy/Jenks Consultants

UST SITE ASSESSMENT AND REMOVAL REPORT

Prepared for

THE BURLINGTON NORTHERN AND SANTA FE RAILWAY COMPANY
Wishram, Washington

Prepared by:



Galen C. Davis
Hydrogeologist

Reviewed by:



Melissa Papworth, P.E.
Vice President

KENNEDY/JENKS CONSULTANTS
ENGINEERS AND SCIENTISTS
32001 32nd Avenue South, Suite 100
Federal Way, Washington 98001
(253) 874-0555

K/J 036026.00

October 2003

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1.0 INTRODUCTION

Kennedy/Jenks Consultants prepared this report on behalf of The Burlington Northern and Santa Fe Railway Company (BNSF) to document an underground storage tank (UST) site assessment and removal conducted at the BNSF track-switching facility (facility) in Wishram, Washington (Figure 1).

The UST described herein was discovered by BNSF in January 2002. RMCAT Environmental Services, Inc. of Portland, Oregon (RMCAT) conducted a site assessment later that same month and removed the UST in April 2002.

2.0 SITE LOCATION AND DESCRIPTION

2.1 SITE LOCATION

Wishram is in Klickitat County, Washington, on the northern shoreline of the Columbia River approximately 10 miles northeast of the Dalles, Oregon, and 0.75 mile south of the town of Wishram Heights on Washington State Route 14 (Figure 1). The UST site is located at 500 Main Street, near the southwestern boundary of the town of Wishram (Figures 1 and 2), in the southwestern quarter of the southwestern quarter of section 17, township 2 north, range 15 east of the Willamette Meridian.

2.2 SITE DESCRIPTION

The UST was formerly located approximately 50 feet north of a small maintenance shop and 5 feet west of a former boiler house, at the western end of the facility (Figure 2). The 30,000-gallon, single-walled, steel UST was used to supply heating oil to the adjacent boiler house. File information indicates that the tank was installed in the early 1970s and was used until approximately 1982. After the boiler house was no longer used by BNSF, the building was converted to a garage for parking the Wishram Volunteer Fire Department ambulance.

2.2.1 Hydrogeology

Hydrogeologic conditions at the site will be described in detail in a site characterization report delivered under separate cover. Based on RMCAT's field observations, soil in the vicinity of the former UST location is composed of fine to medium sand, between the ground surface and approximately 15 feet below ground surface (bgs). During the site assessment and UST removal, bedrock was encountered in the immediate location of the UST at a depth of 15 to 16 feet bgs. Bedrock was not encountered in two soil

borings advanced approximately 50 feet south of the UST above the maximum depth drilled (24 feet bgs). Groundwater was not encountered in any of the soil borings or in the UST excavation.

3.0 UST SITE ASSESSMENT

3.1 SOIL BORINGS AND FIELD OBSERVATIONS

On 25 January 2002, RMCAT collected subsurface soil samples from 17 direct-push soil borings advanced around the UST in the locations shown on Figure 2. In all but two of the locations, soil samples were collected from depths ranging from approximately 10 to 16 feet bgs, with the deepest samples collected from just above bedrock. Bedrock was not encountered in soil borings #7 and #8 (Figure 2), and samples were collected from 24 feet bgs (maximum drilling depth) in these two locations.

3.2 LABORATORY ANALYSIS AND RESULTS

Subsurface soil samples collected from the soil borings were submitted to Wy'East Environmental Sciences, Inc. of Portland, Oregon, (Wy'East) for analysis of diesel- and heavy oil-range hydrocarbons by the NWTPH-Diesel extended method. The analytical results are summarized in Table 1, and the laboratory analytical reports prepared by Wy'East are provided in Appendix A.

Analytical results indicated the presence of diesel- and oil-range hydrocarbons in soil surrounding the UST at depths between approximately 10 feet bgs and bedrock. The approximate horizontal extent of petroleum-containing soil, based on the site assessment results, is shown on Figure 2.

4.0 UST REMOVAL

4.1 UST REMOVAL AND SOIL EXCAVATION

RMCAT removed the UST from the site between 23 and 25 April 2002. Clean surface soil was excavated from above the UST and stockpiled in the paved bullpen located southeast of the site (Figure 2). Approximately 2 inches of diesel and oil were then pumped out of the tank, the tank was cleaned and rinsed, and the fluids were transported to Spencer Environmental Services of Oregon City, Oregon, for recycling. The UST was then cut into three pieces, flattened, and transported offsite to a scrap-metal recycling facility.

After the UST was removed, RMCAT excavated approximately 750 tons of petroleum-containing soil, from the area shown on Figure 2, to a depth of approximately 16 feet bgs (bedrock). The soil was transported and disposed offsite at the Rabanco Landfill in Roosevelt, Washington. Clean overburden and imported pit-run were then placed into the completed excavation in 2-foot-thick lifts and compacted using the excavator bucket.

4.2 CONFIRMATION SAMPLING

Prior to backfilling, RMCAT collected 30 confirmation samples from the excavation sidewalls from the locations shown on diagrams included in Appendix B. Confirmation bedrock samples were not collected from the bottom of the excavation.

4.3 ANALYTICAL RESULTS

Confirmation samples were submitted to Wy'East for analysis of diesel- and oil-range petroleum hydrocarbons by the NWTPH-Diesel extended method. The results show that a thin layer of soil containing diesel and oil at concentrations exceeding Washington

State Department of Ecology Model Toxics Control Act (MTCA) Method A industrial soil cleanup levels remained in place just above bedrock to the north, east, and south of the excavated area (Table 1). Diesel and oil concentrations in confirmation samples collected from the excavation sidewall due west of the UST were below MTCA Method A industrial soil cleanup levels.

5.0 SUMMARY AND CONCLUSION

In April 2003, BNSF removed an abandoned 30,000-gallon heating oil UST from the western end of the facility. Based on the analytical results and the reported extent of the UST excavation, petroleum hydrocarbons remain in site soil at concentrations exceeding the MTCA Method A Cleanup Levels for Industrial Properties.

Tables

Table 1
Site Assessment and Confirmation Sample Laboratory Analytical Results
Former UST Site BNSF Wishram, Washington

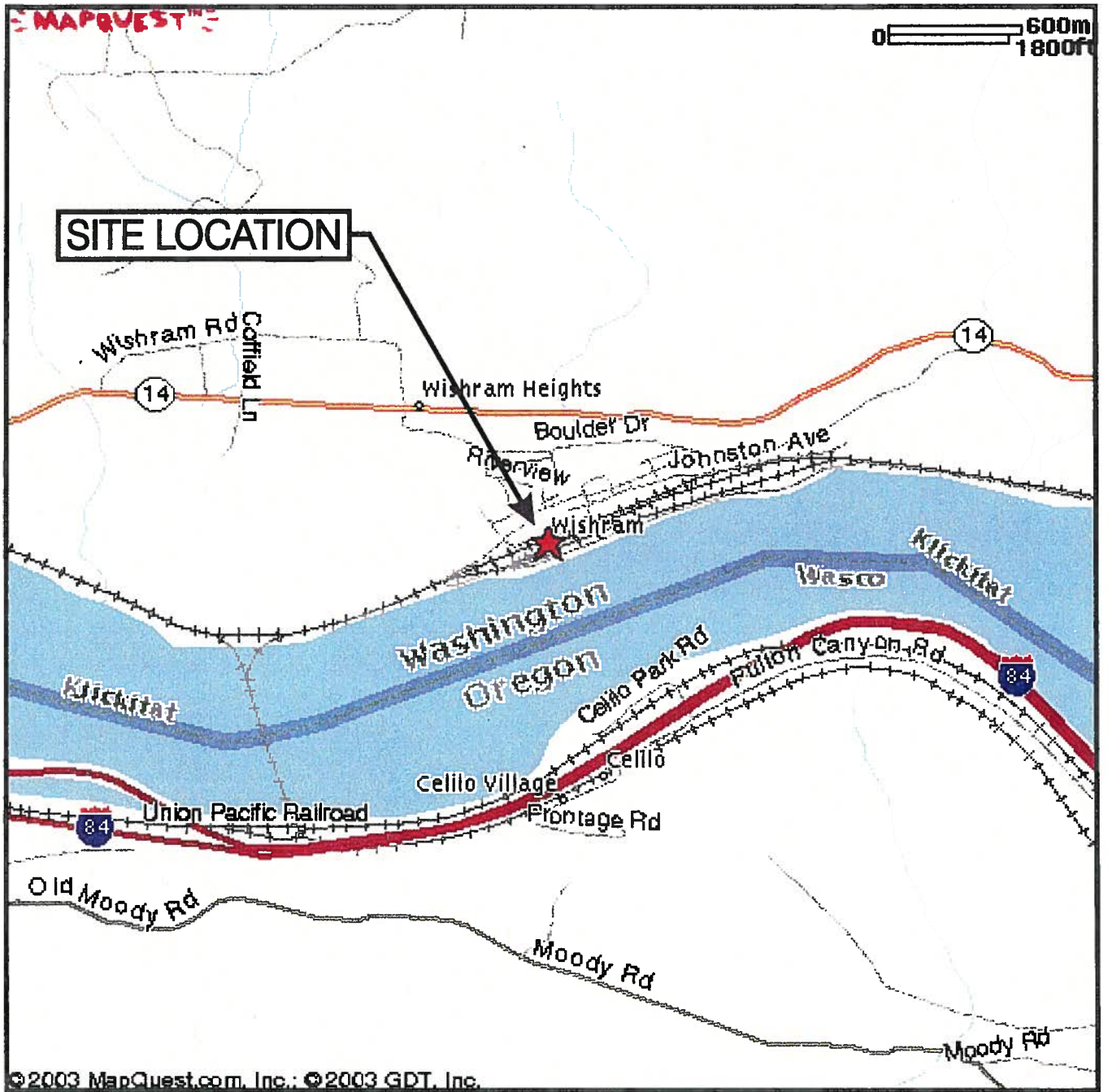
Sample Location and Identification	Depth (ft.)	Petroleum Hydrocarbon Concentration (mg/kg)	
		Diesel	Oil
North of UST Site			
#1	10	nd	nd
#1	14	nd	nd
#1	18	nd	nd
#2	11.5	5,120	7,850
#12	12	nd	nd
#12	16	187	976
#13	12	nd	nd
#13	16	nd	nd
#14	8	445	2,480
East of UST Site			
#3	na	na	na
#4	10	nd	nd
#4	14	nd	nd
South of UST Site			
#5	12	1,190	nd
#6	12	260	nd
#7	10	3,740	2,730
#7	16	7,750	nd
#8	15	1,560	1,210
#8	18	85	nd
#8	24	4,520	4,680
#9	10	31,000	36,800
#9	12	50,200	62,900
#9	14	29,900	35,200
#10	12	567	1,700
#10	14	43,200	34,300
Soil Borings in Excavated Area^(a)			
#15	8	39,400	51,200
#16	13	999	3,870
#17	10	2,460	2,440
#17	12	118,500	nd
#17	14	57,600	56,900
North Excavation Sidewall			
N-1	15.5	nd	nd
N-2	3	nd	nd
N-3	15.5	28,500	48,500
N-4	3	nd	nd
N-9	14.5	26,900	34,400
N-10	3	nd	nd
N-11	14.5	35,400	53,500
N-12	3	351	523
West Excavation Sidewall			
W-5	14.5	42,800	60,000
W-6	3	nd	nd
W-7	14.5	7,660	17,900
W-8	3	nd	nd
W-27	15.5	nd	nd
W-28	3	28	nd
W-29	15.5	150	nd
W-30	3	217	nd
South Excavation Sidewall			
S-19	14.5	936	882
S-20	3	nd	nd
S-21	15.5	29,300	44,500
S-22	3	43	nd
S-23	15.5	35,500	56,800
S-24	3	nd	nd
S-25	15.5	nd	nd
S-26	3	nd	nd
East Excavation Sidewall			
E-13	14.5	27,200	30,400
E-14	3	nd	nd
E-15	14.5	60,600	44,400
E-16	3	nd	nd
E-17	14.5	52,500	47,300
E-18	3	nd	nd
MTCA Method A Criteria^(b)		2,000	2,000

Notes:

- a. Samples collected from borings in excavated area represent soil already disposed offsite.
- b. Washington State Department of Ecology Model Toxics Control Act Method A Cleanup Levels for Industrial Properties (WAC 173-340-900).
- na. Samples were not analyzed. It is assumed samples were not collected based on field observations.
- nd. Analyte not detected at a concentration greater than the laboratory practical quantitation limit.
- bold values exceed the MTCA Method A Industrial soil cleanup levels.

Figures








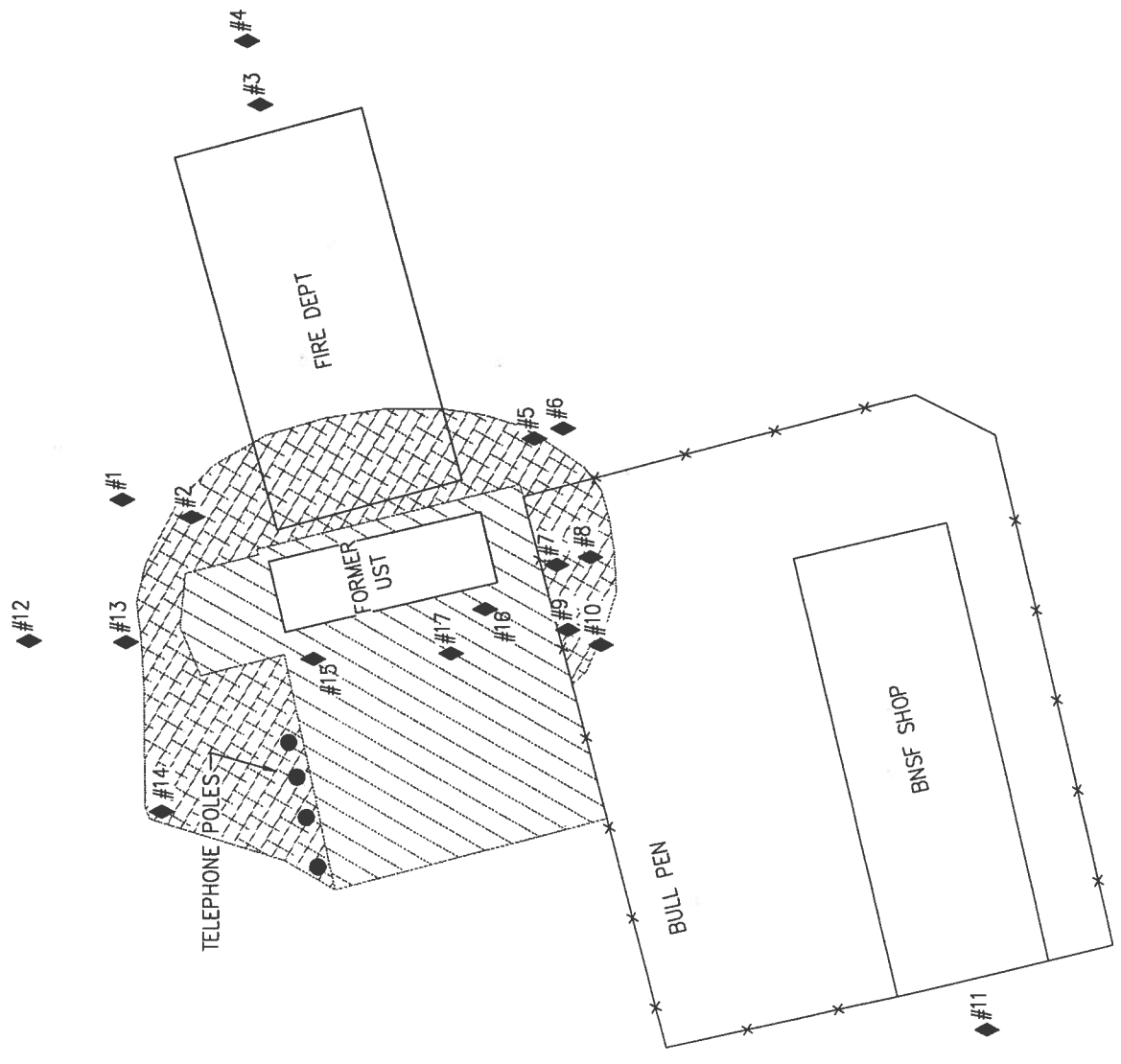
Kennedy/Jenks Consultants
 BURLINGTON NORTHERN FORMER UST SITE
 WISHRAM, WASHINGTON

SITE LOCATION MAP

036026.00/P03SK001
FIGURE 1

LEGEND

	RESIDUAL HYDROCARBONS AT APPROXIMATELY 15' BGS
	EXCAVATED AND DISPOSED OFFSITE APRIL 2002
	PREVIOUS INVESTIGATION SOIL BORINGS (IN AREAS NOT EXCAVATED)



Kennedy/Jenks Consultants

BURLINGTON NORTHERN FORMER UST SITE
WISHRAM, WASHINGTON

UST SITE

036026.00/PO3SK002a

FIGURE 2

Appendix A

Laboratory Analytical Reports


Wy'East

Wy'East Environmental Sciences, Inc.

April 18, 2002

Jason Miltenberger
RMCAT Environmental Services, Inc.
12823 NE Airport Way
Portland, OR 97230

Dear Mr. Miltenberger:

Enclosed are the results of the NW-TPH-Dx analysis for the soil samples submitted as indicated on the Chain of Custody for report 40569. The samples were analyzed in accordance with the NW-TPH-Dx method and Wy'East's quality control procedures. A quality control report is included for your review.

Sincerely,


Lisa Schroeder

Chemist


 Wy'East

Wy'East Environmental Sciences, Inc.

QUALITY CONTROL REPORT

Run Date: 1/28/02 **Batch ID:** WY020128
Prep. Date: 1/25/02 **Test Code:** NWTPH-Dx
Batch Units: 82 **INVOICE #:** 40569

NWTPH-Dx

Analyte: Total Petroleum Hydrocarbon Quantification for Soil (dry weight basis)

Spike Quality Control

Sample ID	mg/Kg (ppm) Unspiked Sample	mg/Kg (ppm) Spiked Sample	Spike RPR*	RPR Lower Limit	RPR Upper Limit
H4715S	14,627	12,689	86	80%	120%
H5057S	0	166	97	80%	120%
H5065S	0	185	90	80%	120%
H5073S	0	177	113	80%	120%
H5080S	9,958	10,745	106	80%	120%
H5091S	0	190	95	80%	120%
H5099S	0	175	89	80%	120%
H5106S	5,191	5,170	87	80%	120%
H5114S	1,330	1,269	83	80%	120%
H5121S	0	165	90	80%	120%
H5129S	57,642	58,064	102	80%	120%

ND = Not Detected (below reporting limit or detection limit)

*RPR = Relative Percent Recovery

Calibration Standard Quality Control

Instrument	Calibration Standard	Calibration Standard % Recovery	Lower Limit	Upper Limit
DIESEL	1.28E+04	82%	67%	133%
DF	4.38E+06	118%	81%	119%
OF	1.89E+06	112%	57%	143%
DR	3.34E+06	101%	62%	138%
OR	1.62E+06	89%	60%	140%

Wy'East*Wy'East Environmental Sciences, Inc.***LABORATORY REPORT**

RMCAT Environmental Services, Inc.
 Attn: Jason Miltenberger
 12823 NE Airport Way
 Portland, OR 97230

PROJECT NAME/SITE: BNSF-Wishram
PROJECT NUMBER: 90920
EXTRACTION DATE: 1-28-02

REPORT NUMBER: 40569
REPORT DATE: 1-29-02
PAGE: 1 of 2

NWTPH-Dx

Analyte: Total Petroleum Hydrocarbon Quantification for soil (dry weight basis)

Field ID	Lab ID	Diesel mg/Kg (ppm)	Heavy Oil mg/Kg (ppm)	Surrogate Recovery (%)
90920-1-10	H5091	ND	ND	98
90920-1-14	H5092	ND	ND	101
90920-1-18	H5093	ND	ND	100
90920-2-11.5	H5094	5,120	7,850	*
90920-4-10	H5095	ND	ND	124
90920-4-14	H5096	ND	ND	97
90920-5-10	H5097	ND	ND	98
90920-5-12	H5098	1,190	ND	140
90920-5-16	H5099	ND	ND	99
90920-6-10	H5100	ND	ND	98
90920-6-12	H5101	260	ND	112
90920-6-16	H5102	ND	ND	97
90920-7-10	H5103	3,740	2,730	*
90920-7-16	H5104	7,750	ND	*
90920-7-20	H5105	2,570	1,630	129
90920-7-24	H5106	5,190	5,760	*
90920-8-15	H5107	1,560	1,210	92
90920-8-18	H5108	85	ND	75
90920-8-24	H5109	4,520	4,680	*
90920-9-10	H5110	31,000	36,800	*
90920-9-14	H5111	29,900	35,200	*
90920-9-12	H5112	50,200	62,900	*
90920-10-10	H5113	ND	ND	91
90920-10-12	H5114	567	1,700	64
BLANK	-	ND	ND	-
Reporting Limit	-	25	100	-

Surrogate is o-Terphenyl

ND = Not Detected (below reporting limit or detection limit)

* Surrogate peak is not discernible on chromatogram from analyte peak.

Wy'East*Wy'East Environmental Sciences, Inc.***LABORATORY REPORT**

RMCAT Environmental Services, Inc.
 Attn: Jason Miltenberger
 12823 NE Airport Way
 Portland, OR 97230

PROJECT NAME/SITE: BNSF-Wishram **REPORT NUMBER:** 40569
PROJECT NUMBER: 90920 **REPORT DATE:** 1-29-02
EXTRACTION DATE: 1-28-02 **PAGE:** 2 of 2

NWTPH-Dx

Analyte: Total Petroleum Hydrocarbon Quantification for soil (dry weight basis)

Field ID	Lab ID	Diesel mg/Kg (ppm)	Heavy Oil mg/Kg (ppm)	Surrogate Recovery (%)
90920-10-14	H5115	43,200	34,300	*
90920-11-10	H5116	ND	ND	92
90920-11-14	H5117	ND	ND	88
90920-11-18	H5118	ND	ND	91
90920-12-12	H5119	ND	ND	89
90920-12-16	H5120	187	976	124
90920-13-12	H5121	ND	ND	92
90920-13-16	H5122	ND	ND	93
90920-14-8	H5123	445	2,480	*
90920-15-8	H5124	39,400	51,200	*
90920-16-8	H5125	ND	ND	92
90920-16-13	H5126	999	3,870	110
90920-17-10	H5127	2,460	2,440	118
90920-17-12	H5128	118,500	ND	*
90920-17-14	H5129	57,600	56,900	*
90920-18-10	H5130	ND	ND	93
90920-18-18	H5131	ND	ND	92
BLANK	-	ND	ND	-
Reporting Limit	-	25	100	-

Surrogate is o-Terphenyl

ND = Not Detected (below reporting limit or detection limit)

* Surrogate peak is not discernible on chromatogram from analyte peak.



LABORATORY REPORT

RMCAT Environmental Services, Inc.
Attn: Jason Miltenberger
12823 NE Airport Way
Portland, OR 97230

PROJECT NAME/SITE: BNSF - Wishram
PROJECT NUMBER: 90920
EXTRACTION DATE: 4-17-02

REPORT NUMBER: 41552
REPORT DATE: 4-18-02
PAGE: 1 of 1

NWTPH-Dx

Analyte: Total Petroleum Hydrocarbon Quantification for soil (dry weight basis)

Table with 5 columns: Field ID, Lab ID, Diesel mg/Kg (ppm), Heavy Oil mg/Kg (ppm), Surrogate Recovery (%). Rows include various field IDs (e.g., 90920-W-7, 90920-E-14) and a BLANK/Reporting Limit row.

Surrogate is o-Terphenyl

ND = Not Detected (below reporting limit or detection limit)

* Surrogate peak is not discernible on chromatogram from analyte peak.

41552

1 of 4



CHAIN OF CUSTODY RECORD

Client/Project Name Bpsf-wishram		Project Location Wishram, WA		ANALYSES						
Work Order No. 90920		Field Logbook No.								
Sampler: (Signature) <i>JASON M. HENBERGER</i>		Chain of Custody Tape No.		<p style="text-align: center;">1991-DX</p>						
SAMPLE NO./ IDENTIFICATION	DATE	TIME	LAB SAMPLE NUMBER					TYPE OF SAMPLE	Date	Time
90920-W-7	4-12-02	1235	H8719					Grab - Soil		
90920-E-13	4-12-02	1250	H8720					~		
90920-N-12	4-12-02	1305	H8721							
90920-N-10	4-12-02	1240	H8722							
90520-W-5	4-12-02	1225	H8723							
90920-E-13	4-12-02	1342	H8724							
90920-N-11	4-12-02	1338	H8725							
90920-W-6	4-12-02	1215	H8726							
Relinquished by: (Signature) <i>JM Multenbergs</i>		Date	Time	Received by: (Signature) <i>g/c</i>	Date	Time				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)	Date	Time				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)	Date	Time				
Comments: Please fax copies to: JASON M. HENBERGER 503-255-6668				ANALYTICAL LABORATORY WY' EAST						

Turnaround: Standard Rush

41552

2084



CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSES			
Work Order No.		Field Logbook No.					
Sampler: (Signature)		Chain of Custody Tape No.		TPH-DX			
SAMPLE NO./ IDENTIFICATION	DATE	TIME	LAB SAMPLE NUMBER	TYPE OF SAMPLE	Received by: (Signature)	Date	Time
90920-S-21	4-12-02	1430	H8727	CoLab-Spill		4/17/02	10:30 AM
90920-S-20	4-12-02	1355	H8728				
90920-S-19	4-12-02	1245	H8729				
90920-S-23	4-12-02	1350	H8730				
90920-N-4	4-12-02	1212	H8731				
90920-S-26	4-12-02	1430	H8732				
90920-S-22	4-12-02	1340	H8733				
90920-S-24	4-12-02	1410	H8734				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time
Jeff Mullenberger		4/17/02	1022	cy-dan		4/17/02	10:30 AM
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time
Comments:				ANALYTICAL LABORATORY			
Turnaround: <input type="checkbox"/> Standard <input type="checkbox"/> Rush							



3 of 4

41552

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSES		
Work Order No.		Field Logbook No.		TPH-DX		
Sampler: (Signature)		Chain of Custody Tape No.		X		
SAMPLE NO./ IDENTIFICATION	DATE	TIME	LAB SAMPLE NUMBER	TYPE OF SAMPLE	Date	Time
90920-E-16	4-12-02	1300	H8735	Crab-soil	4/17/02	10:28 AM
90920-E-17	4-12-02	1305	H8736	[Handwritten scribble]	Date	Time
90920-E-15	4-12-02	1310	H8737		Date	Time
90920-W-30	4-12-02	1500	H8738		Date	Time
90920-W-8	4-12-02	1220	H8739		Date	Time
90920-W-29	4-12-02	1455	H8740		Date	Time
90920-W-28	4-12-02	1450	H8741		Date	Time
90920-W-27	4-12-02	1445	H8742		Date	Time
Relinquished by: (Signature) <i>Judy Maltberger</i>			Date		Time	Received by: (Signature) <i>D. Chan</i>
Relinquished by: (Signature)			Date	Time	Received by: (Signature)	
Relinquished by: (Signature)			Date	Time	Received by: (Signature)	
Comments:			ANALYTICAL LABORATORY			
Turnaround:			<input type="checkbox"/> Standard <input type="checkbox"/> Rush			



CHAIN OF CUSTODY RECORD

Client/Project Name			Project Location			ANALYSES		
Work Order No.			Field Logbook No.					
Sampler: (Signature)			Chain of Custody Tape No.					
SAMPLE NO./ IDENTIFICATION	DATE	TIME	LAB SAMPLE NUMBER	TYPE OF SAMPLE	Received by: (Signature)	Date	Time	
90920-E-18	4-12-02	1310	H8743	Gravel - Soil	<i>[Signature]</i>	4/17/02	10:30 AM	
90920-S-25	4-12-02	1420	H8744					
90920-N-3	4-12-02	1310	H8745					
90920-N-1	4-12-02	1200	H8746					
90920-N-9	4-12-02	1235	H8747					
90920-N-2			H8748					
Relinquished by: (Signature)			Date			Time		
<i>[Signature]</i>			4/17/02			10:22		
Relinquished by: (Signature)			Date			Time		
<i>[Signature]</i>								
Relinquished by: (Signature)			Date			Time		
<i>[Signature]</i>								
Comments:			ANALYTICAL LABORATORY					
Turnaround:			<input type="checkbox"/> Standard			<input type="checkbox"/> Rush		

70H-DX

Gravel - Soil

[Signature]

[Signature]

[Signature]

[Signature]

4/17/02

10:22

4/17/02


10:30 AM

ANALYTICAL LABORATORY

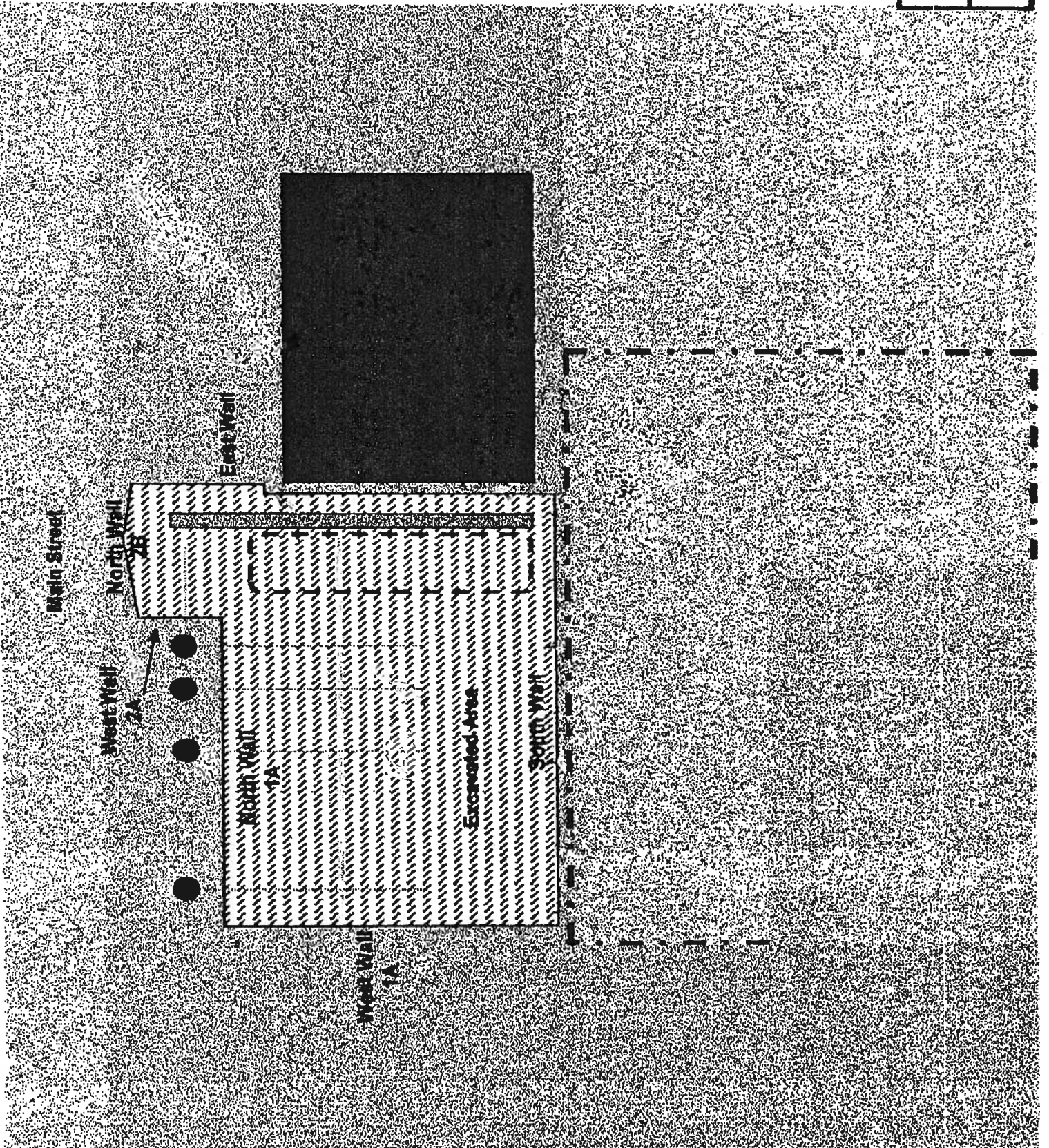
Turnaround: Standard Rush

Appendix B

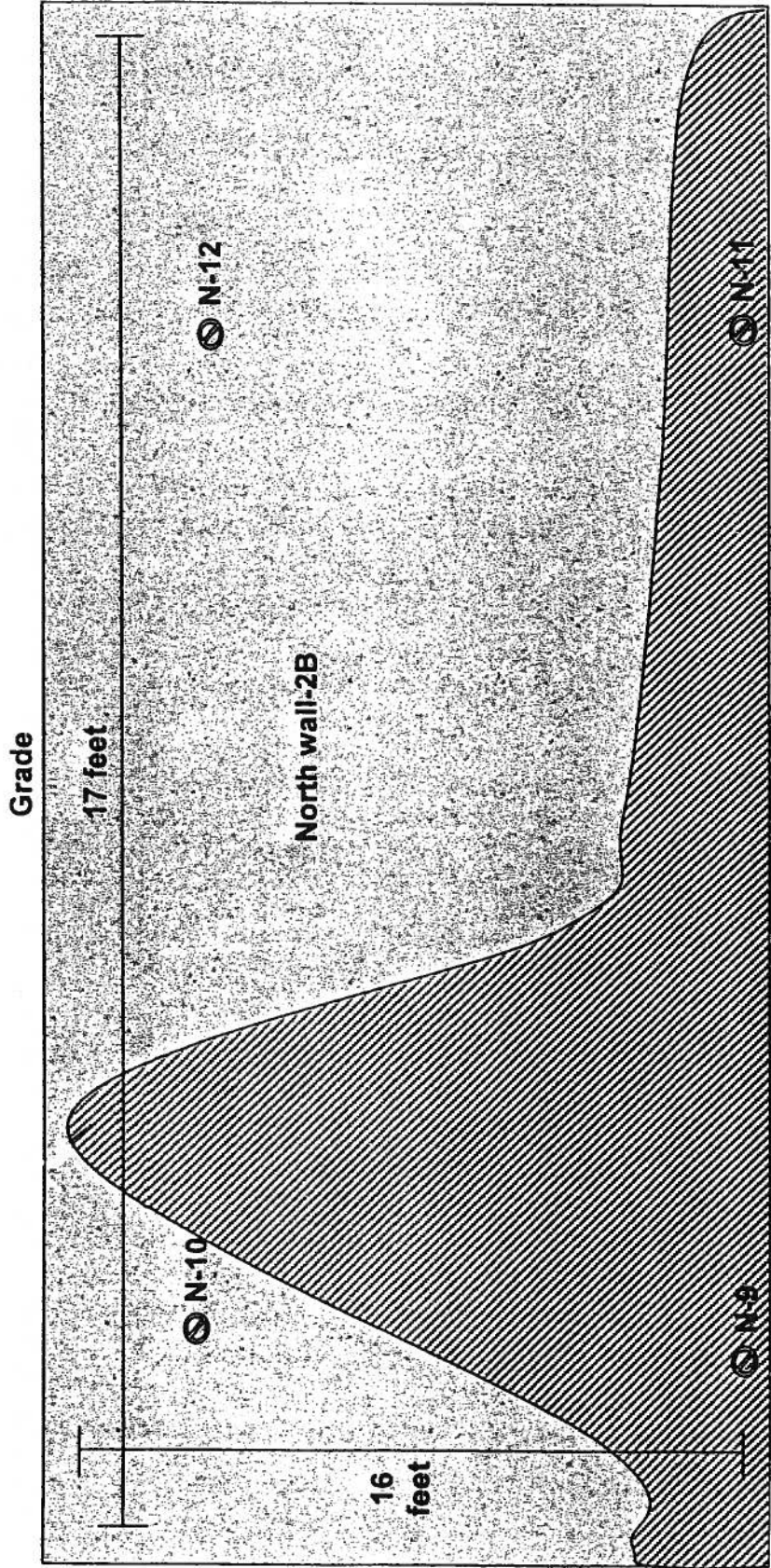
Confirmation Sample Location Diagrams



Checked
Drawn By:
JRM



Burlington Northern Santa Fe Railway
Wishram, Washington Facility
Sample Location and Contamination
Left in Place Map
RMCAT WO# 90920





Grade

43 feet

W-28

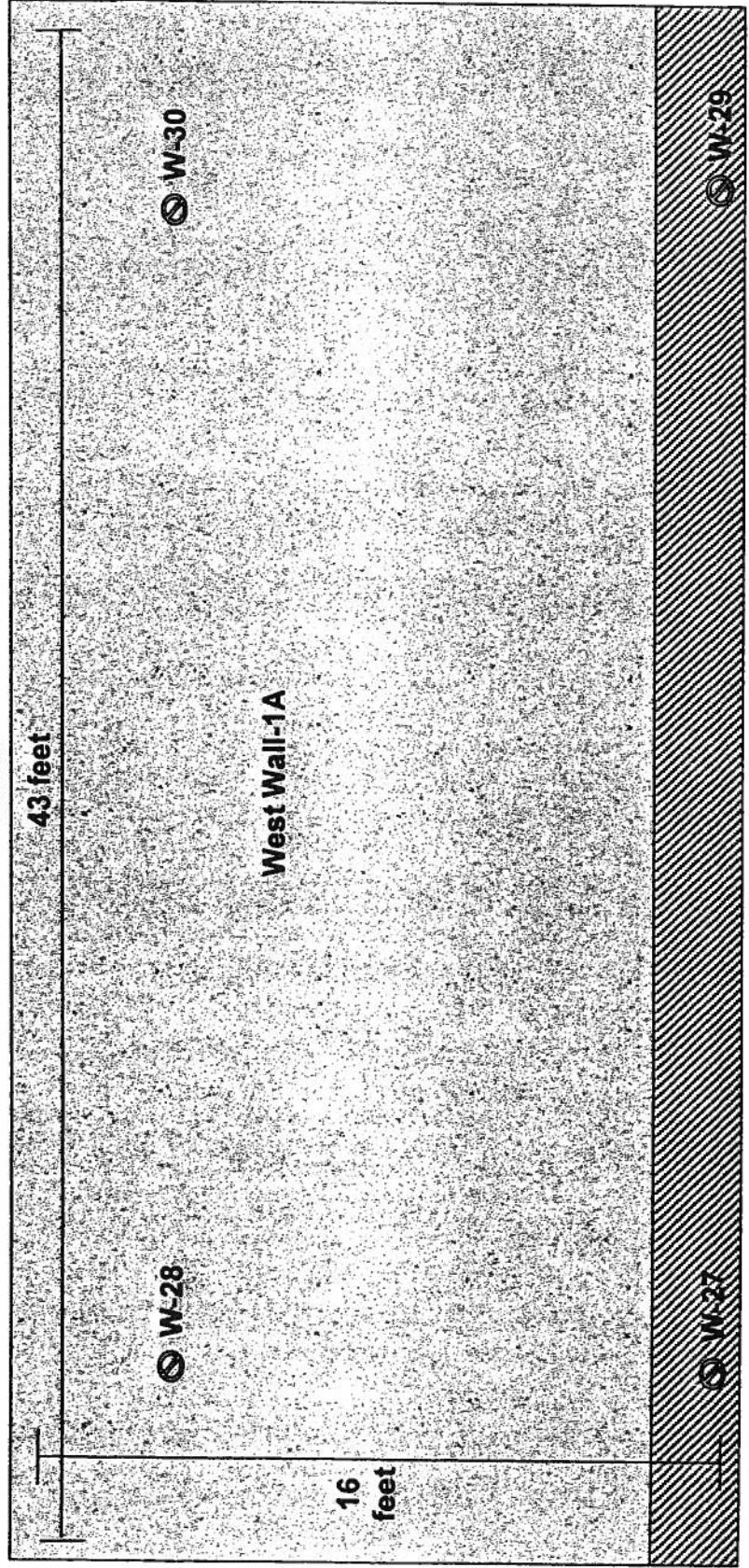
W-30

West Wall-1A

16 feet

W-27

W-29



Burlington Northern Santa Fe Railway
Wishram, Washington Facility
Sample Location and Contamination
Left in Place Map
RMCAT WO# 90920



Grade

25 feet

West wall-2A

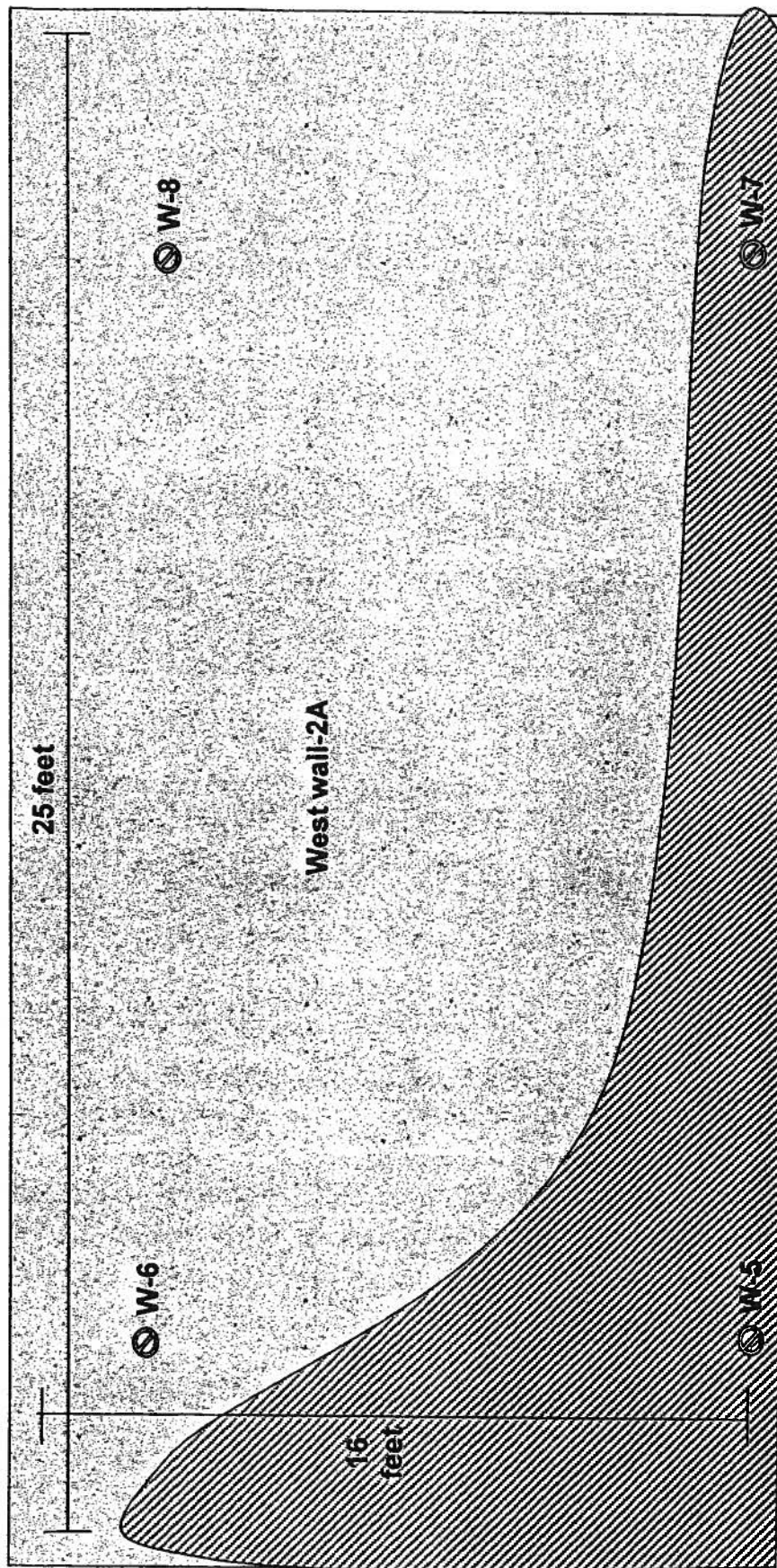
W-6

W-8

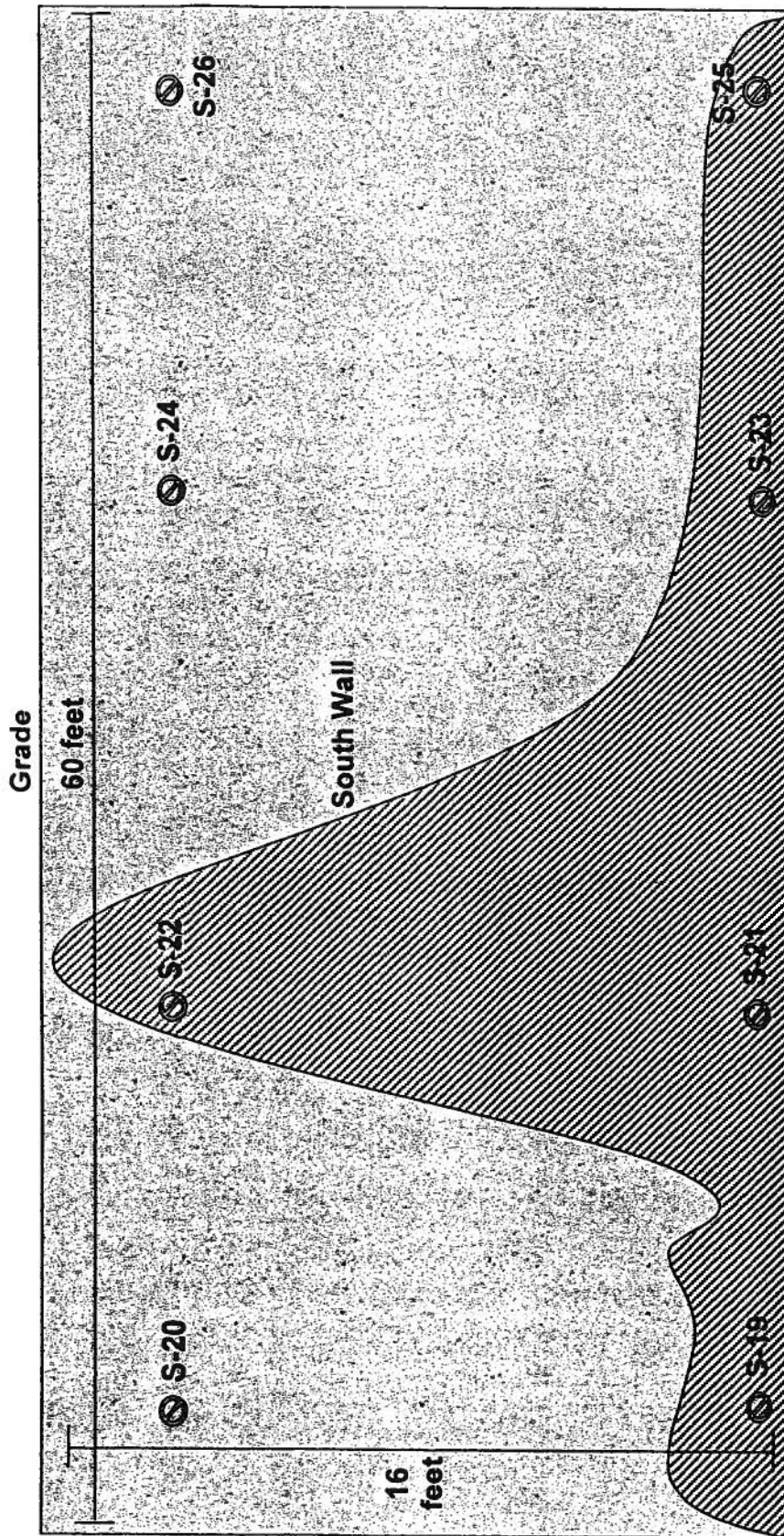
W-5

W-7

16 feet



Burlington Northern Santa Fe Railway
Wishram, Washington Facility
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Wishram, Washington Facility
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Grade

