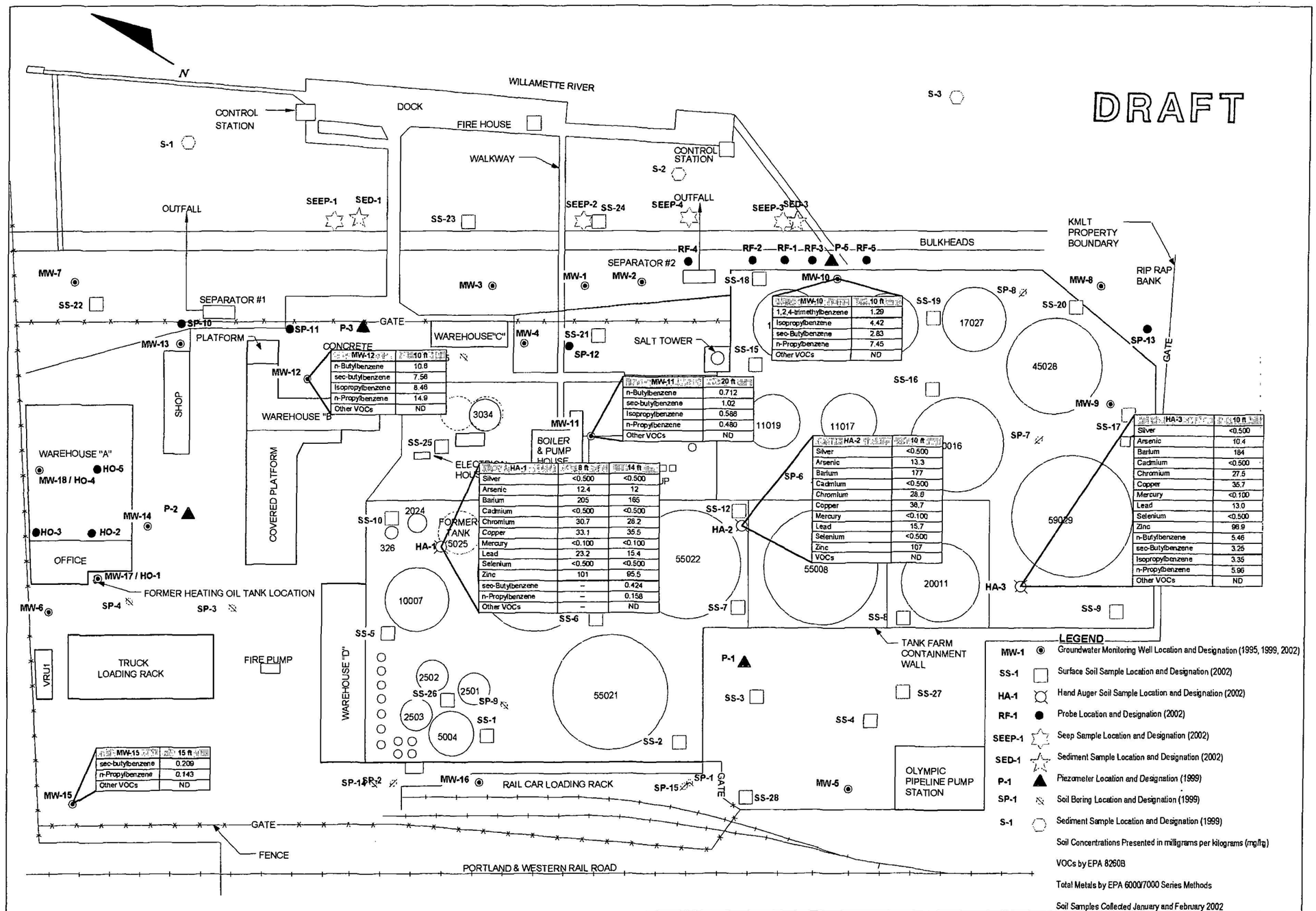
PORSF
11.3.14.1 V11



MW-10	10 ft
1,2,4-trimethylbenzene	1.29
Isopropylbenzene	4.42
sec-Butylbenzene	2.83
n-Propylbenzene	7.45
Other VOCs	ND

MW-12	10 ft
n-Butylbenzene	10.6
sec-butylbenzene	7.56
Isopropylbenzene	8.46
n-Propylbenzene	14.9
Other VOCs	ND

MW-11	20 ft
n-Butylbenzene	0.712
sec-butylbenzene	1.02
Isopropylbenzene	0.586
n-Propylbenzene	0.480
Other VOCs	ND

HA-1	8 ft	14 ft
Silver	<0.500	<0.500
Arsenic	12.4	12
Barium	205	165
Cadmium	<0.500	<0.500
Chromium	30.7	28.2
Copper	33.1	35.5
Mercury	<0.100	<0.100
Lead	23.2	15.4
Selenium	<0.500	<0.500
Zinc	101	95.5
sec-Butylbenzene	–	0.424
n-Propylbenzene	–	0.158
Other VOCs	–	ND

HA-2	10 ft
Silver	<0.500
Arsenic	13.3
Barium	177
Cadmium	<0.500
Chromium	28.8
Copper	38.7
Mercury	<0.100
Lead	15.7
Selenium	<0.500
Zinc	107
VOCs	ND

HA-3	10 ft
Silver	<0.500
Arsenic	10.4
Barium	184
Cadmium	<0.500
Chromium	27.5
Copper	35.7
Mercury	<0.100
Lead	13.0
Selenium	<0.500
Zinc	96.9
n-Butylbenzene	5.46
sec-Butylbenzene	3.25
Isopropylbenzene	3.35
n-Propylbenzene	5.96
Other VOCs	ND

MW-15	15 ft
sec-butylbenzene	0.209
n-Propylbenzene	0.143
Other VOCs	ND

LEGEND

MW-1	Groundwater Monitoring Well Location and Designation (1995, 1999, 2002)
SS-1	Surface Soil Sample Location and Designation (2002)
HA-1	Hand Auger Soil Sample Location and Designation (2002)
RF-1	Probe Location and Designation (2002)
SEEP-1	Seep Sample Location and Designation (2002)
SED-1	Sediment Sample Location and Designation (2002)
P-1	Piezometer Location and Designation (1999)
SP-1	Soil Boring Location and Designation (1999)
S-1	Sediment Sample Location and Designation (1999)

Soil Concentrations Presented in milligrams per kilograms (mg/kg)

VOCs by EPA 8260B

Total Metals by EPA 6000/7000 Series Methods

Soil Samples Collected January and February 2002

KHM
ENVIRONMENTAL MANAGEMENT INC.

DESIGNED BY
DRAWN BY
CHECKED BY
APPROVED BY

CAPILLARY AND VADOSE SOIL ANALYTICAL RESULTS - VOCS AND METALS

Kinder Morgan Liquid Terminals LLC
Linnton Terminal
11400 NW St. Helens Road
Portland, Oregon

DATE	PROJECT	DRAWING
8/28/02	B30-01F	10

USEPA SF
1288853