BG WSF
1.4

07-01-0008

Final Bremerton Gasworks Targeted Brownfields Assessment Report Bremerton, Washington

Technical Direction Document Number: 07-01-0008

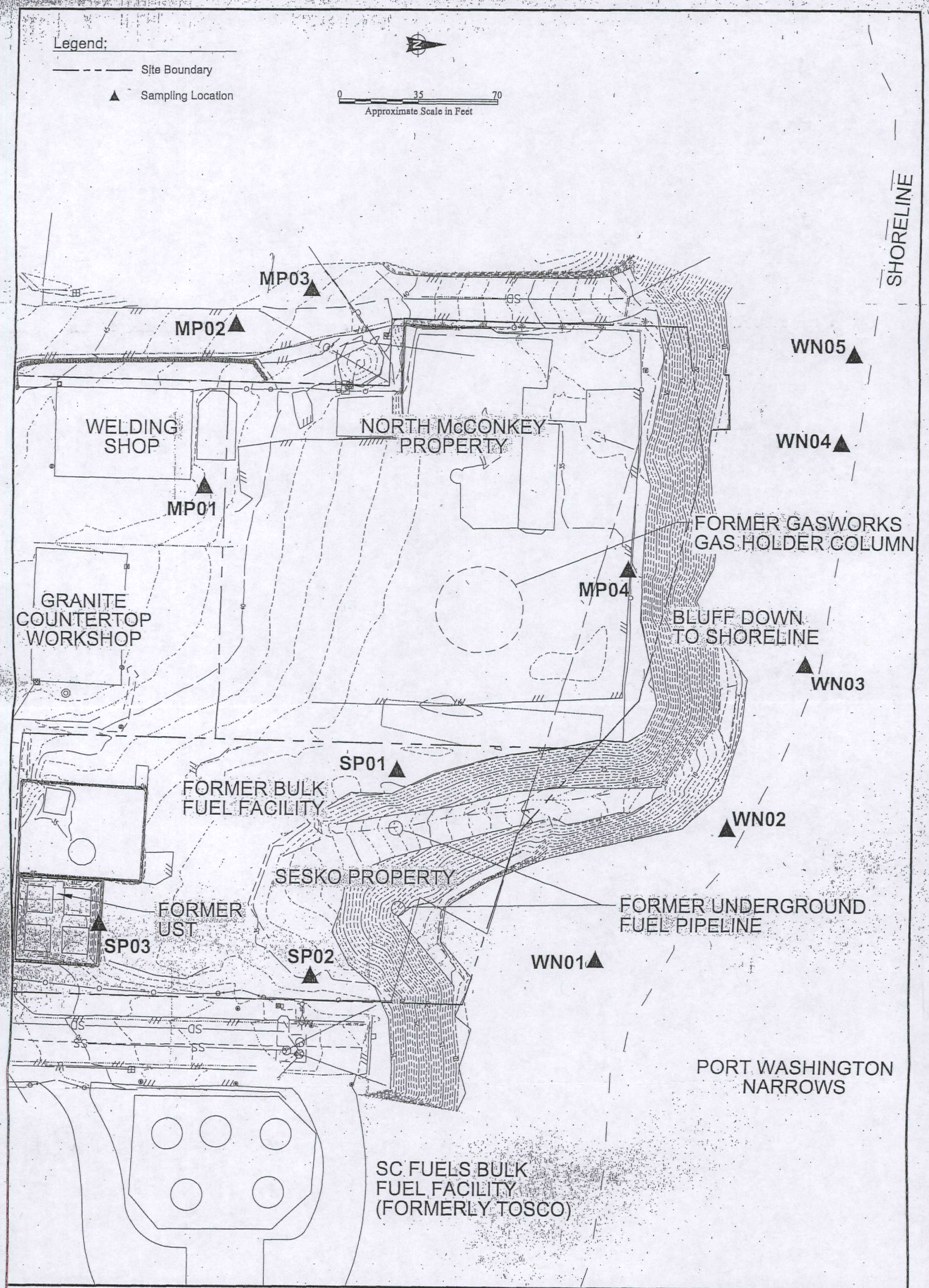
August 2009

Prepared for:
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
1200 Sixth Avenue
Seattle, Washington 98101

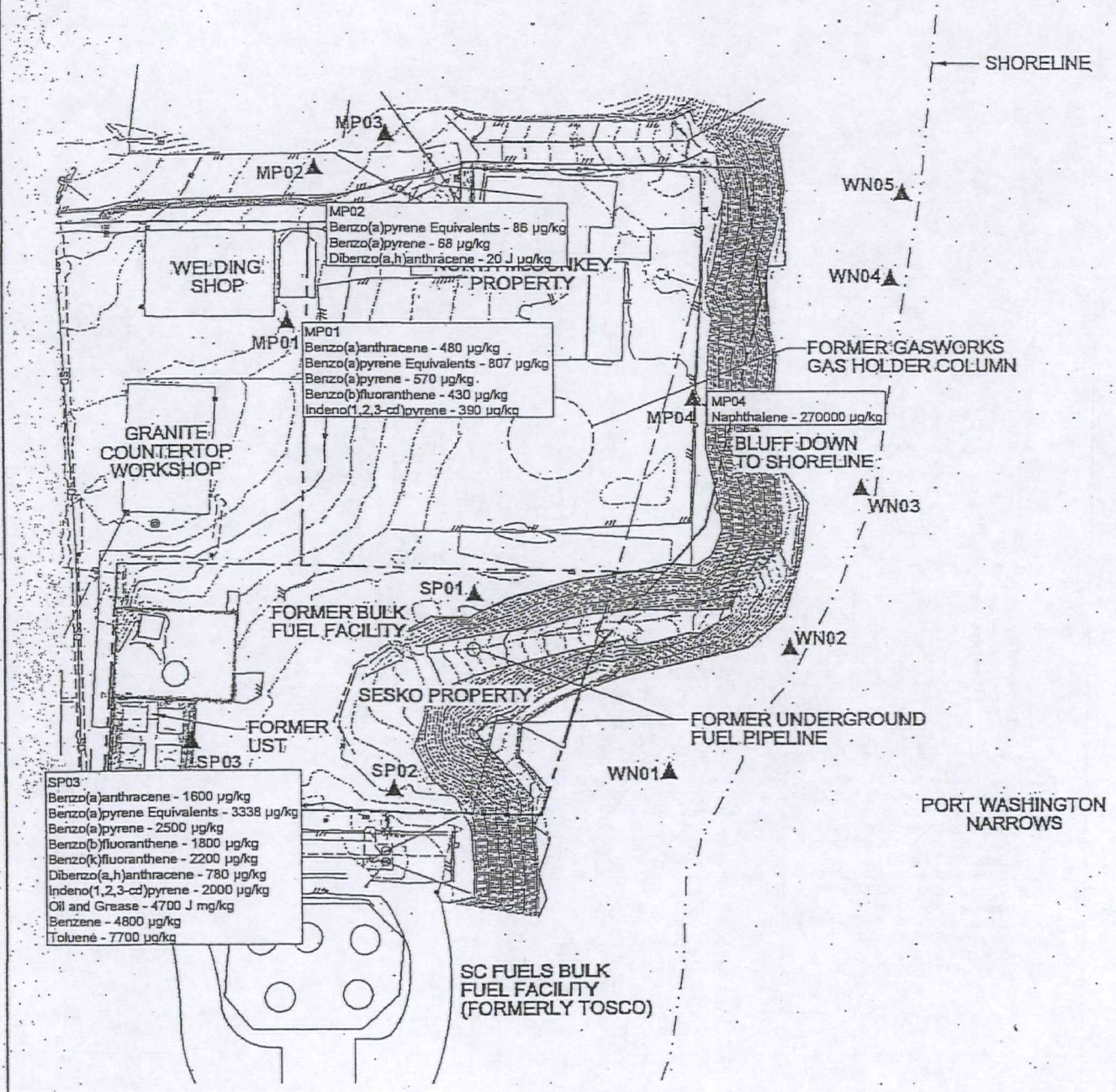
Prepared by:

ECOLOGY AND ENVIRONMENT, INC.
720 Third Avenue, Suite 1700
Seattle, Washington 98104

USEPA SF
1359964



ecology and environment, inc. International Specialists in the Environment Seattle, Washington	BREMERTON GASWORKS TBA Bremerton, Washington	Figure 3-1 SAMPLING LOCATIONS		
	Base Map Reference: GeoEngineers 2007.	Date: 1/26/09	Drawn by: AES	10:START-3\07010008\fig 3-1



Key	
µg/kg	Microgram per kilogram
µg/L	Microgram per liter
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
J	The result is an estimated value

NOT TO SCALE

ecology and environment, inc.
International Specialists in the Environment
Seattle, Washington

BREMERTON GAS WORKS TBA

Bremerton, Washington

Figure 3-2
Subsurface Soil Contaminant (0-5 bgs) Concentration Map

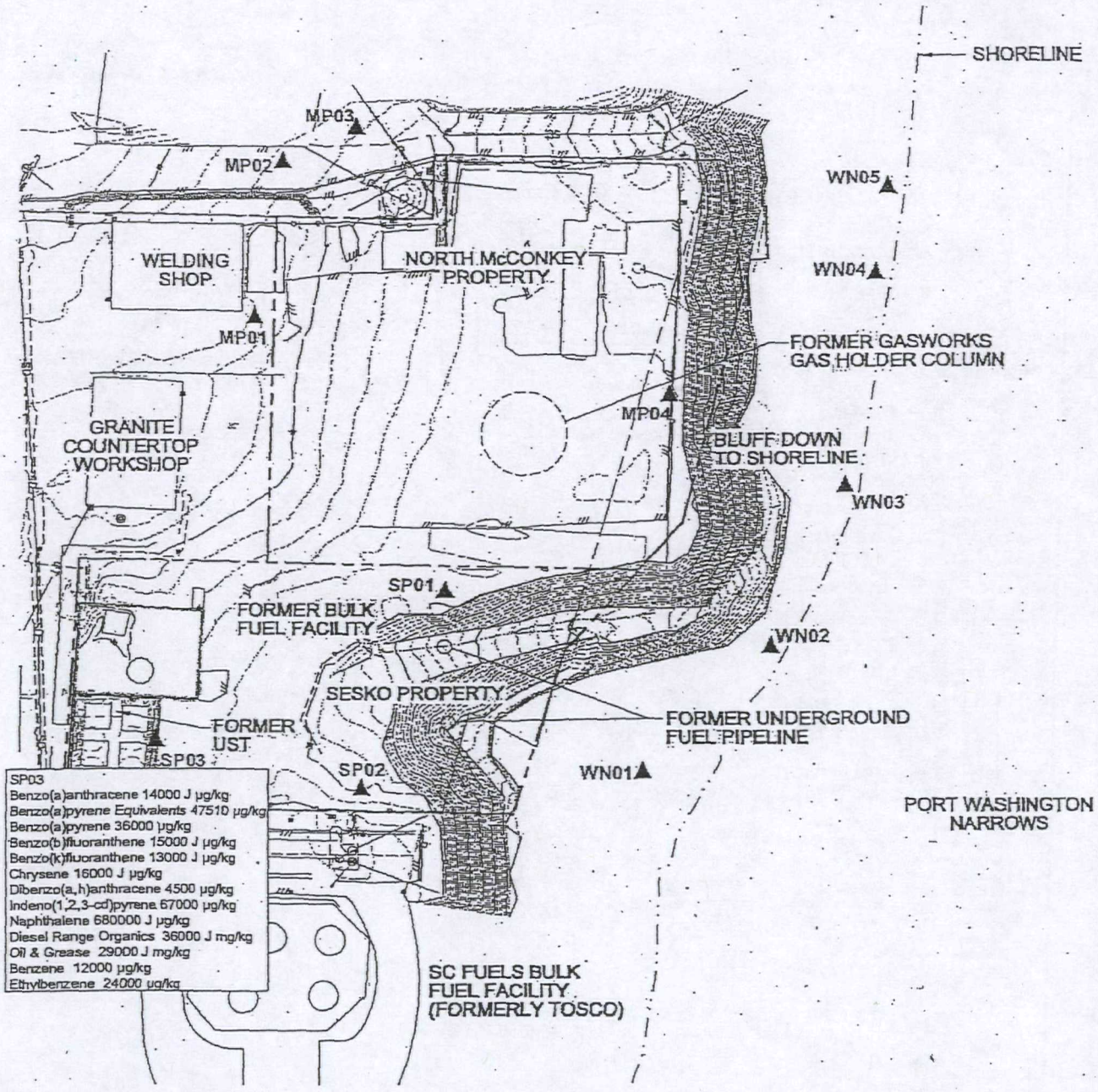
Job Id: 002233.0178.01BR

Date: 3/26/2009

GIS Analyst: avh

Map Source Information:

\edms-projects\Bremerton Gasworks\fig 0-5 bgs_new.mxd



Key	
µg/kg	Microgram per kilogram
µg/L	Microgram per liter
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
J	The result is an estimated value

NOT TO SCALE

ecology and environment, inc.
International Specialists in the Environment
Seattle, Washington

BREMERTON GAS WORKS TBA

Bremerton, Washington

Figure 3-3
Subsurface Soil Contaminant (5-10 Bgs) Concentration Map

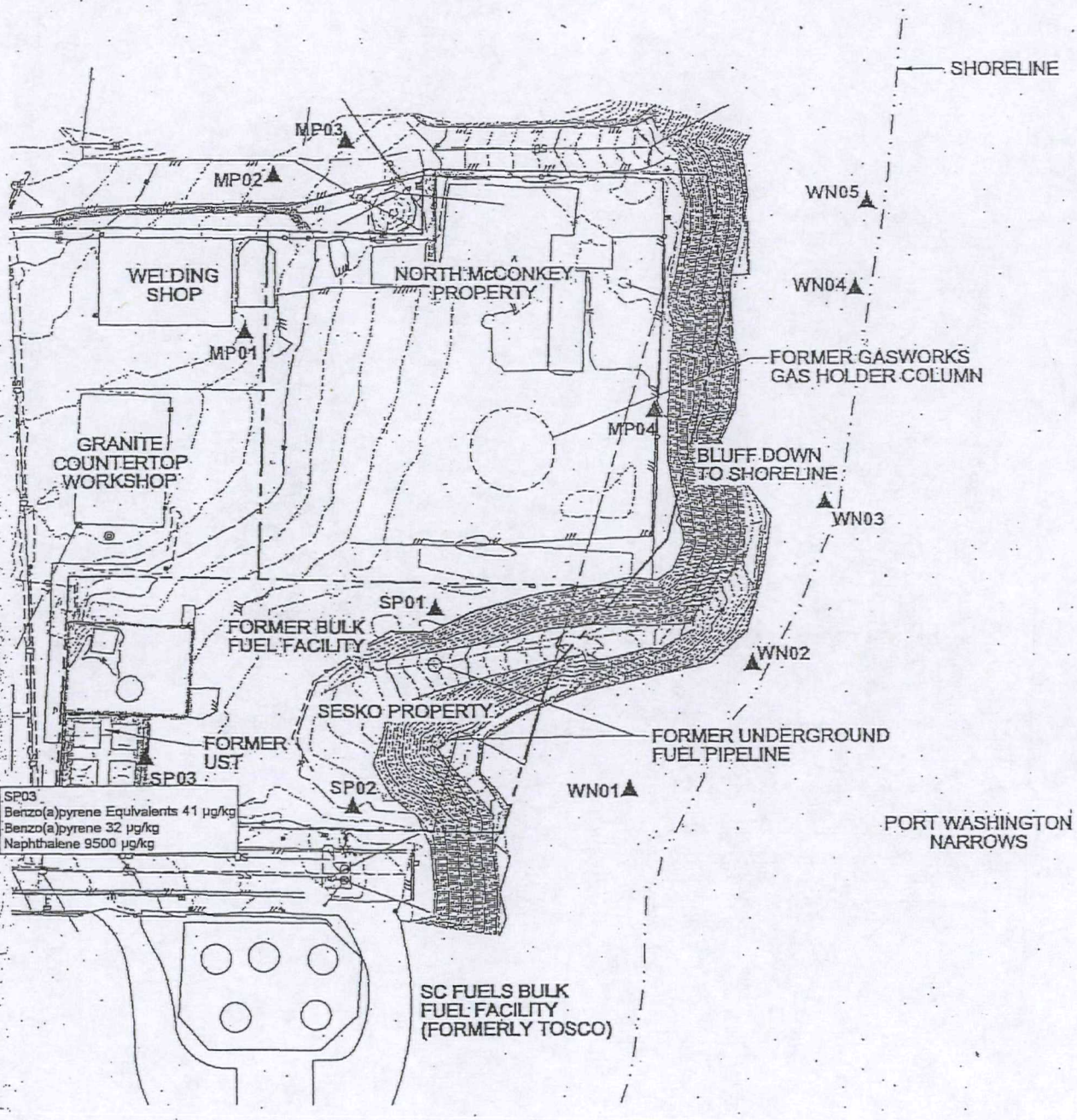
Job Id: 002233.0178.01BR

Date: 3/26/2009

GIS Analyst: avh

Map Source Information:

\\edms-projects\Bremerton Gasworks\fig 5-10 bgs_new.mxd



NOT TO SCALE

ecology and environment, inc.
International Specialists in the Environment
Portland, Oregon

BREMERTON GAS WORKS TBA

Bremerton, Washington

Figure 3-4
Subsurface Soil Contaminant (10-15 Bgs) Concentration Map

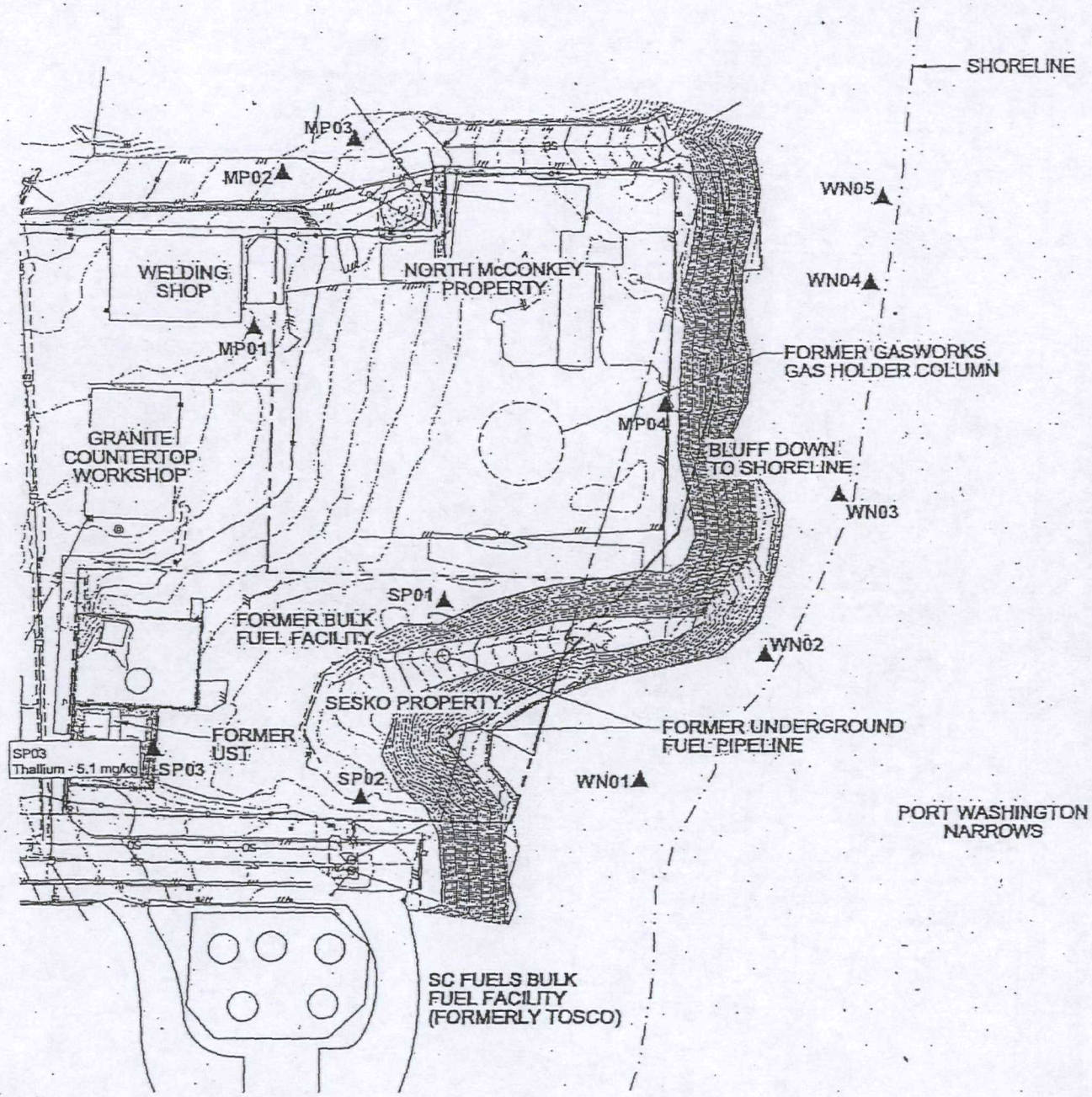
Job Id: 002233.0178.01BR

Date: 3/26/2009

GIS Analyst: avh

Map Source Information:

ledms-projects\Bremerton Gasworks\fig 10-15 bgs_new.mxd



Key	
µg/kg	Microgram per kilogram
µg/L	Microgram per liter
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
J	The result is an estimated value

NOT TO SCALE

BREMERTON GAS WORKS TBA

Bremerton, Washington

Figure 3-5
Subsurface Soil Contaminant (15-20 Bgs) Concentration Map

Job Id: 002233.0178.01BR

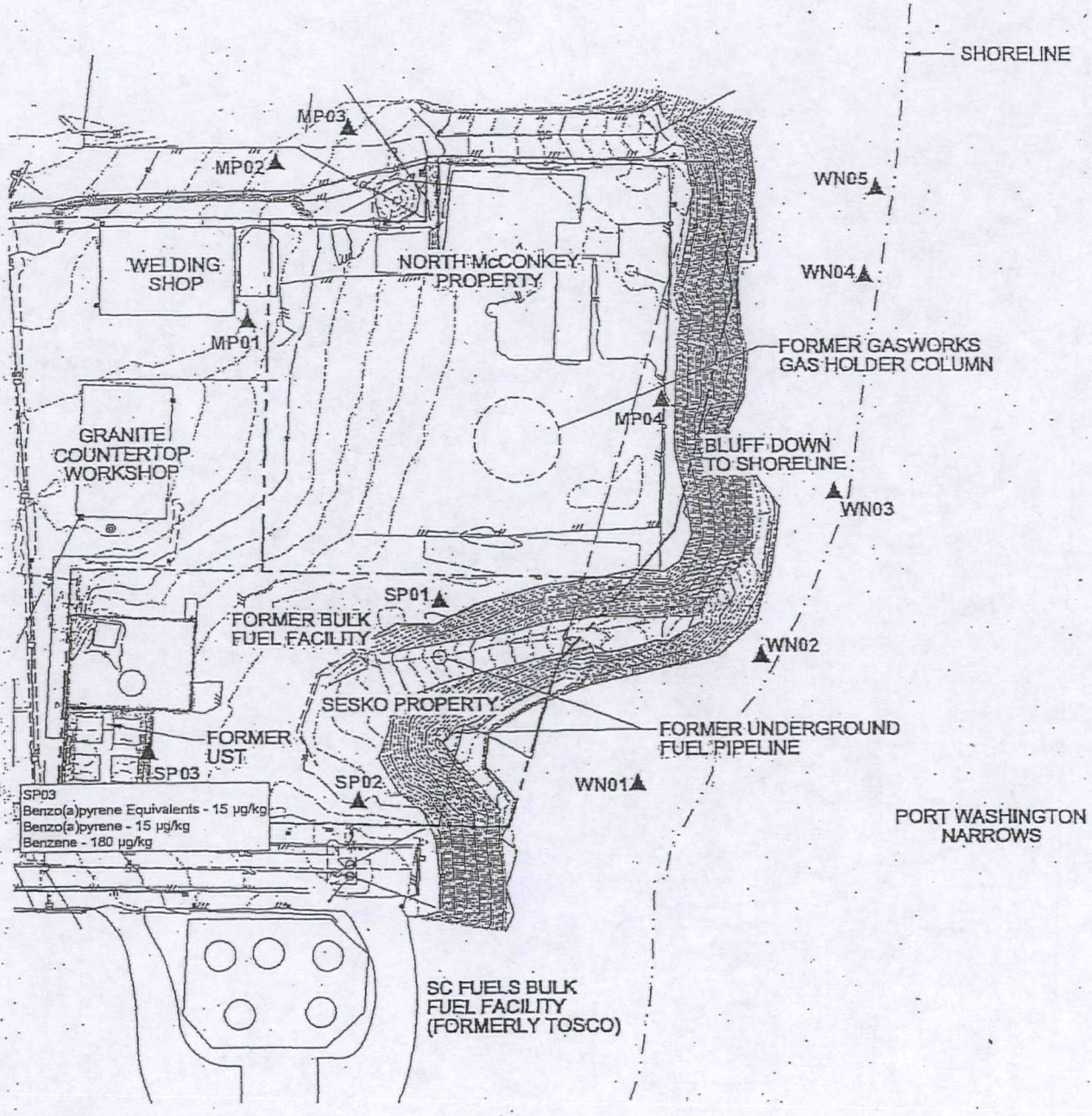
Date: 3/26/2009

GIS Analyst: avh

Map Source Information:

ecology and environment, inc.
International Specialists in the Environment
Seattle, Washington

\edms-projects\Bremerton Gasworks\fig 15-20 bgs_new



Key	
µg/kg	Microgram per kilogram
µg/L	Microgram per liter.
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
J	The result is an estimated value

NOT TO SCALE

ecology and environment, inc.
International Specialists in the Environment
Seattle, Washington

BREMERTON GAS WORKS TBA

Bremerton, Washington

Figure 3-6
Subsurface Soil Contaminant (20-25 Bgs) Concentration Map

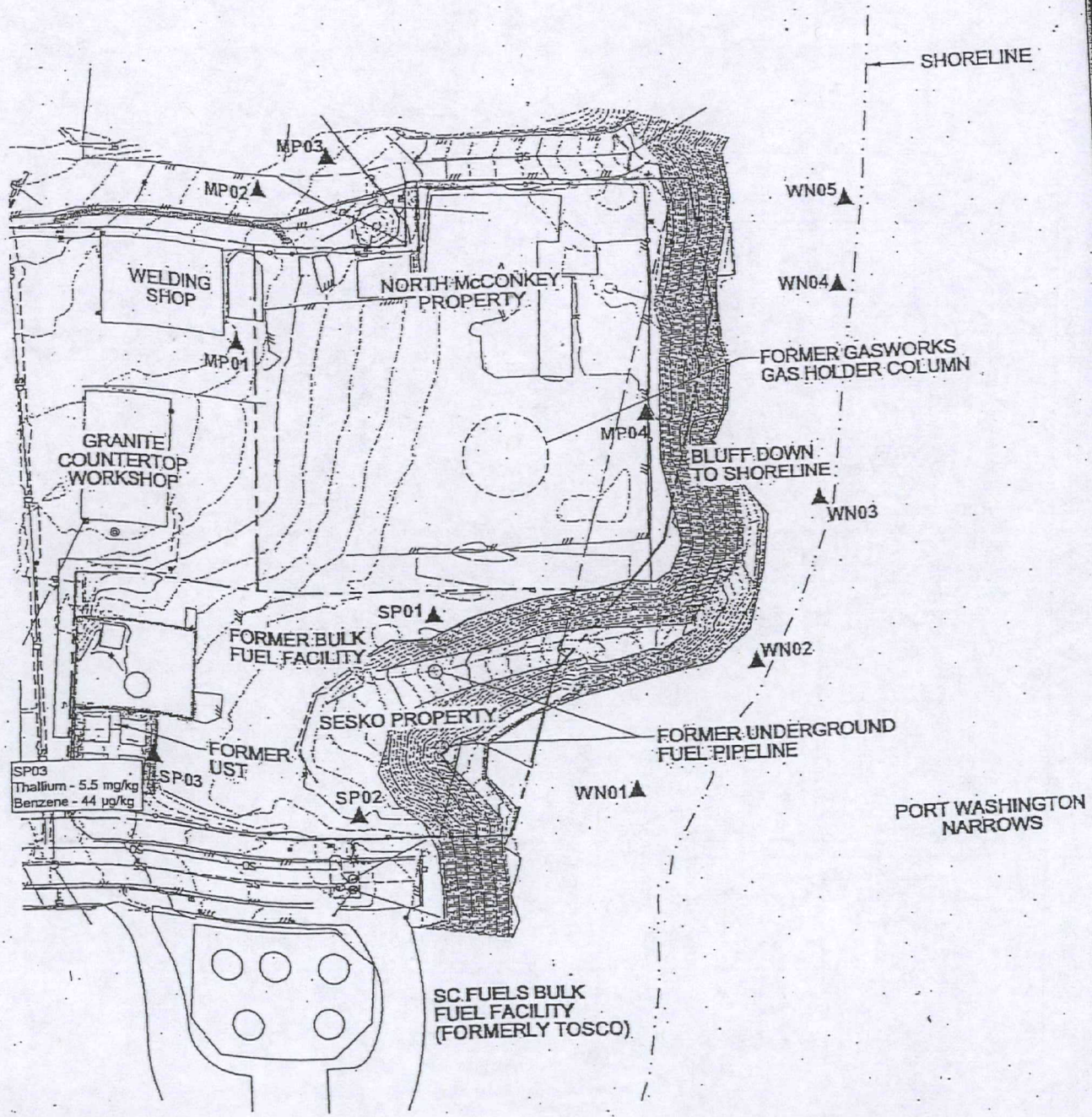
Job Id: 002233.0178.01BR

Date: 3/26/2009

GIS Analyst: avh

Map Source Information:

\edms-projects\Bremerton Gasworks\fig 20-25 bgs_new.mxd



Key	
µg/kg	Microgram per kilogram
µg/L	Microgram per liter
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
J	The result is an estimated value

NOT TO SCALE

BREMERTON GAS WORKS TBA

Figure 3-7
Subsurface Soil Contaminant
(25-30 Bgs) Concentration Map

Job Id: 002233.0178.01BR

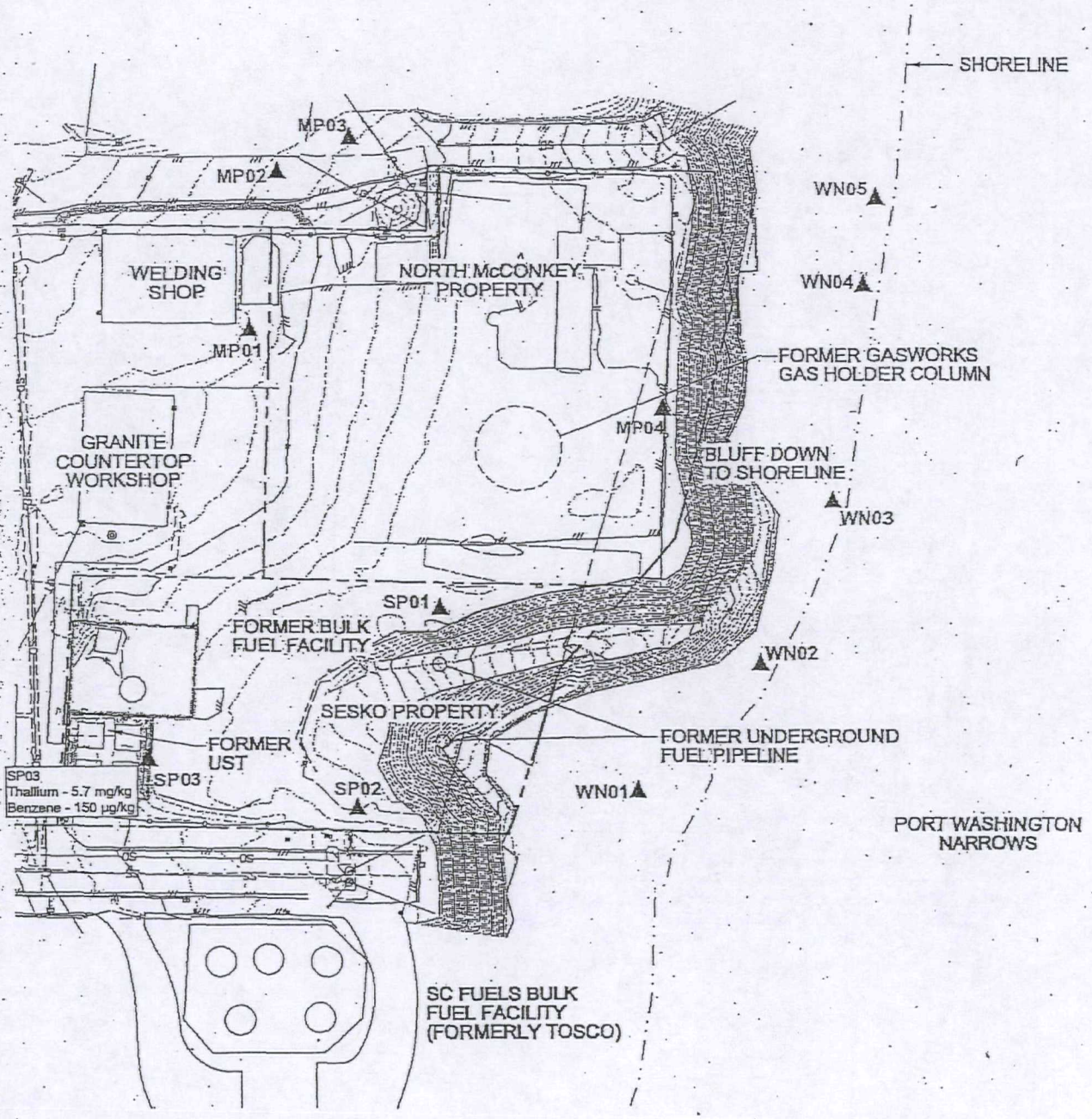
Date: 3/26/2009

GIS Analyst: avh

Map Source Information:

ecology and environment, inc.
International Specialists in the Environment
Seattle, Washington

Bremerton, Washington



Key	
µg/kg	Microgram per kilogram
µg/L	Microgram per liter
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
J	The result is an estimated value

NOT TO SCALE

ecology and environment, inc.
International Specialists in the Environment
Seattle, Washington

BREMERTON GAS WORKS TBA

Bremerton, Washington

Figure 3-8
Subsurface Soil Contaminant (30-35 Bgs) Concentration Map

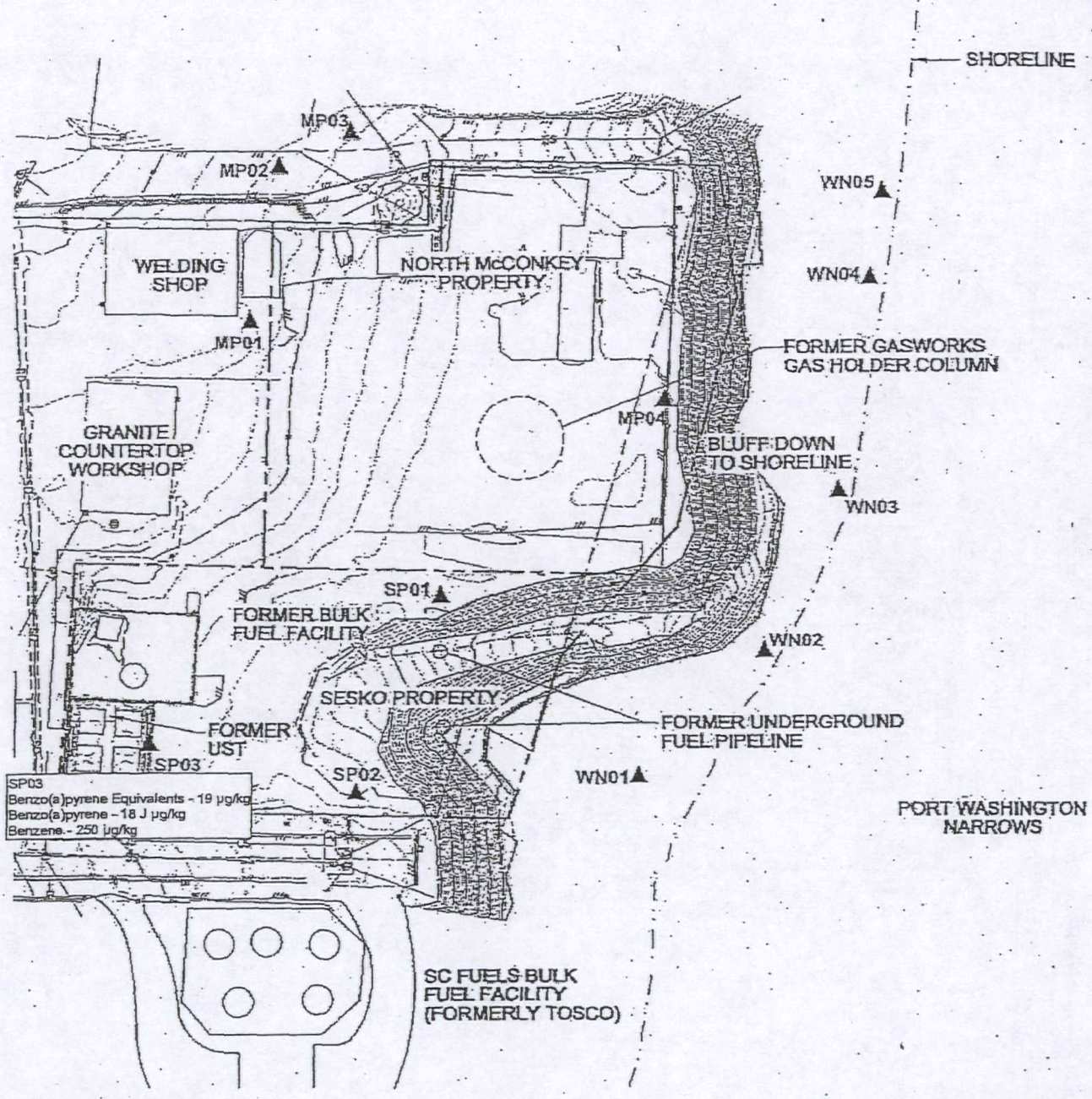
Job Id: 002233.0178.01BR

Date: 3/26/2009

GIS Analyst: avh

Map Source Information:

\edms-projects\Bremerton Gasworks\fig 30-35 bgs_new.mxd



Key	
µg/kg	Microgram per kilogram
µg/L	Microgram per liter
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
J	The result is an estimated value

NOT TO SCALE

BREMERTON GAS WORKS TBA

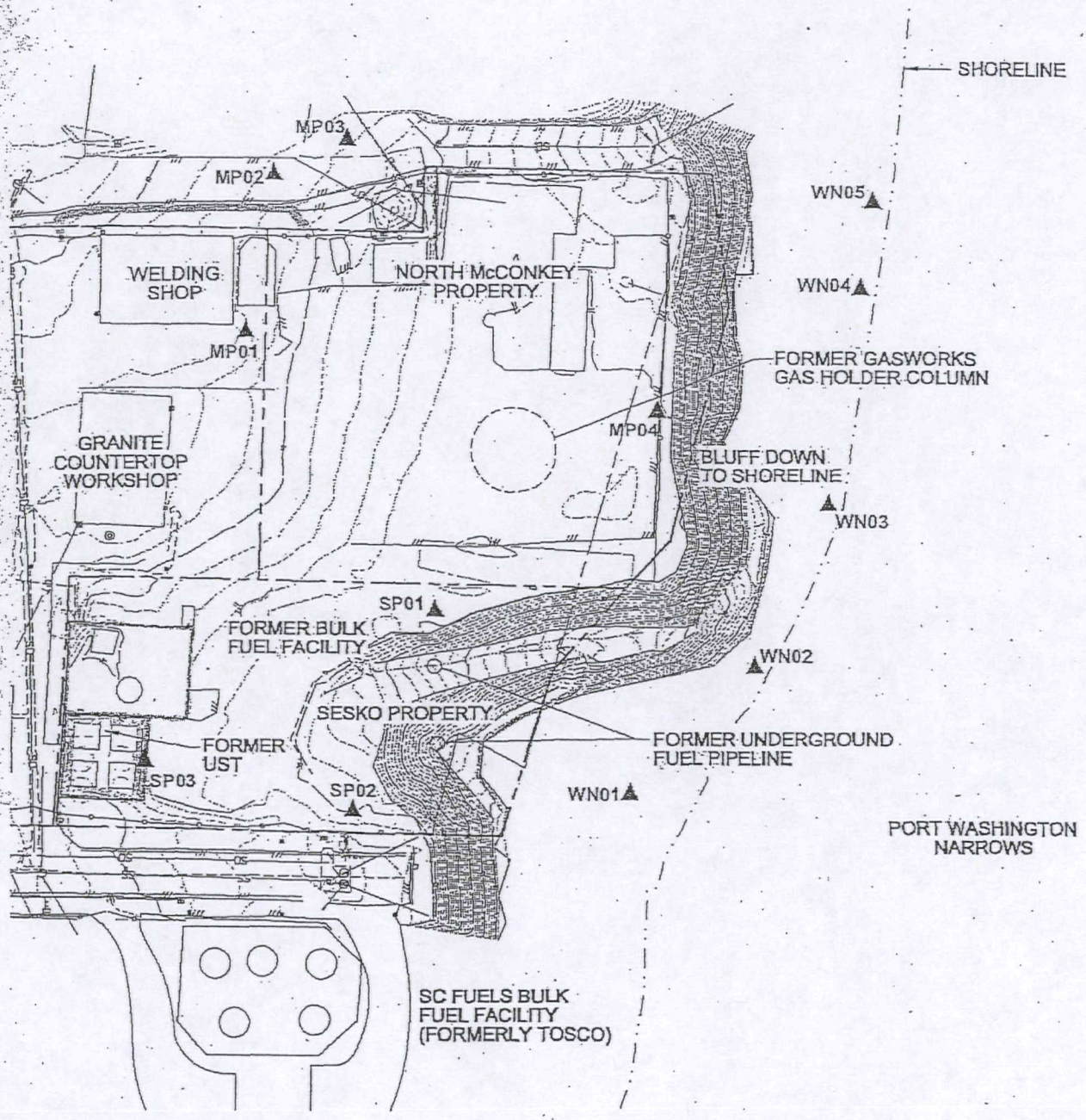
Bremerton, Washington

Figure 3-9
Subsurface Soil Contaminant (35-40 bgs) Concentration Map

ecology and environment, inc.
International Specialists in the Environment
Seattle, Washington

Job Id: 002233.0178.01BR
Date: 3/26/2009
GIS Analyst: avh
Map Source Information:

\edms-projects\Bremerton Gasworks\fig 35-40 bgs_new.



Key	
µg/kg	Microgram per kilogram
µg/L	Microgram per liter
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
J	The result is an estimated value

NOT TO SCALE

ecology and environment, inc.
International Specialists in the Environment
Seattle, Washington

BREMERTON GAS WORKS TBA

Bremerton, Washington

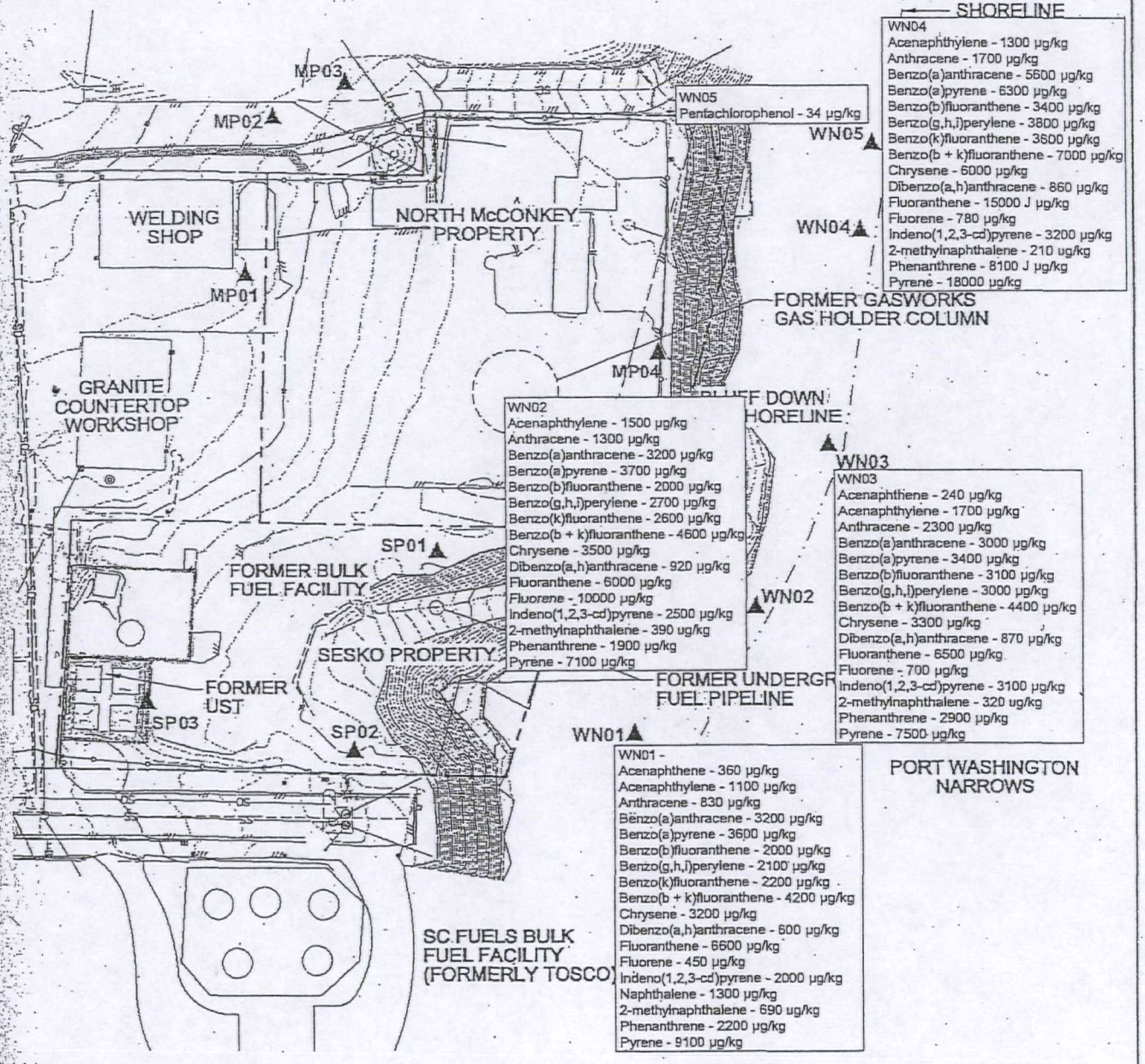
Figure 3-10
Subsurface Soil Contaminant (40-45 Bgs) Concentration Map

Job Id: 002233.0178.01BR

Date: 3/26/2009

GIS Analyst: avh

Map Source Information:



Key	
µg/kg	Microgram per kilogram
µg/L	Microgram per liter
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
J	The result is an estimated value

NOT TO SCALE

ecology and environment, inc.
International Specialists in the Environment
Seattle, Washington

BREMERTON GAS WORKS TBA

Bremerton, Washington

Figure 3-12
Sediment Contaminant Concentration Map

Job Id: 002233.0178.01BR

Date: 3/24/2009

GIS Analyst: avh

Map Source Information:

\edms-projects\bremerton gasworks\fig 3-12 sedimentL.mxd