MRI Corporation

Seattle, Washington

Waste Characterization Program

ENSR Consulting and Engineering

March 1991

Document Number 4506-001-781

NatEx Laboratories, Inc.
Pacific Northwest Environmental Laboratory, Inc.

\TCLP

TCLP ANALYSIS DATA SHEET
40 CFR Part 268, Method 1311

Client Sample ID:	Comp. L1-S1 thru L1-S6	**PNELI Sample ID:**	2933-01
Sample Matrix:	Soil	**Date Sample Received:**	02-13-91
Wt. Soil Extracted:	100 g	**Vol. Leachate:**	2.0 ℓ
Units of Measure:	mg/ℓ		

EP Toxicity Metals		Leachate Concentration		Maximum(1) Concentration	Method of Analysis
Arsenic	(As)	0.002		5.0	F
Barium	(Ba)	0.075		100.0	P
Cadmium	(Cd)	0.005		1.0	P
Chromium	(Cr)	0.010	U	5.0	P
Lead	(Pb)	0.306		5.0	P
Mercury	(Hg)	0.0002	U	0.2	CV
Selenium	(Se)	0.003	U	1.0	F
Silver	(Ag)	0.010	U	5.0	P
Tin	(Sn)	0.500	U	*NA	P
Zinc	(Zn)	19.8		*NA	P

Laboratory Method Blank

Arsenic	(As)	0.002	U	5.0	F
Barium	(Ba)	0.137		100.0	P
Cadmium	(Cd)	0.005	U	1.0	P
Chromium	(Cr)	0.010	U	5.0	P
Lead	(Pb)	0.030	U	5.0	P
Mercury	(Hg)	0.0002	U	0.2	CV
Selenium	(Se)	0.003	U	1.0	F
Silver	(Ag)	0.010	U	5.0	P
Tin	(Sn)	0.500	U	*NA	P
Zinc	(Zn)	0.071		*NA	P

(1) Maximum Concentration Based on 40 CFR Chapter 1, Part 261.24

* Regualtory limits do not exist for tin and zinc.

NatEx Laboratories, Inc.
Pacific Northwest Environmental Laboratory, Inc.

\TCLP

TCLP ANALYSIS DATA SHEET
40 CFR Part 268, Method 1311

Client Sample ID:	Comp. L2-S1 thru L2-S6	**PNELI Sample ID:**	2933-02
Sample Matrix:	Soil	**Date Sample Received:**	02-13-91
Wt. Soil Extracted:	100 g	**Vol. Leachate:**	2.0 ℓ
Units of Measure:	mg/ℓ		

EP Toxicity Metals		Leachate Concentration		Maximum(1) Concentration	Method of Analysis
Arsenic	(As)	0.003		5.0	F
Barium	(Ba)	0.188		100.0	P
Cadmium	(Cd)	0.005	U	1.0	P
Chromium	(Cr)	0.010	U	5.0	P
Lead	(Pb)	0.052		5.0	P
Mercury	(Hg)	0.0002	U	0.2	CV
Selenium	(Se)	0.003	U	1.0	F
Silver	(Ag)	0.010	U	5.0	P
Tin	(Sn)	0.500	U	*NA	P
Zinc	(Zn)	6.49		*NA	P

Laboratory Method Blank

Arsenic	(As)	0.002	U	5.0	F
Barium	(Ba)	0.137		100.0	P
Cadmium	(Cd)	0.005	U	1.0	P
Chromium	(Cr)	0.010	U	5.0	P
Lead	(Pb)	0.030	U	5.0	P
Mercury	(Hg)	0.0002	U	0.2	CV
Selenium	(Se)	0.003	U	1.0	F
Silver	(Ag)	0.010	U	5.0	P
Tin	(Sn)	0.500	U	*NA	P
Zinc	(Zn)	0.071		*NA	P

(1) Maximum Concentration Based on 40 CFR Chapter 1, Part 261.24

* Regualtory limits do not exist for tin and zinc.

NatEx Laboratories, Inc.
Pacific Northwest Environmental Laboratory, Inc.

\TCLP

TCLP ANALYSIS DATA SHEET
40 CFR Part 268, Method 1311

Client Sample ID:	Comp. L3-S1 thru L3-S6	**PNELI Sample ID:**	2933-03
Sample Matrix:	Soil	**Date Sample Received:**	02-13-91
Wt. Soil Extracted:	100 g	**Vol. Leachate:**	2.0 ℓ
Units of Measure:	mg/ℓ		

EP Toxicity Metals		Leachate Concentration		Maximum(1) Concentration	Method of Analysis
Arsenic	(As)	0.002		5.0	F
Barium	(Ba)	0.085		100.0	P
Cadmium	(Cd)	0.016		1.0	P
Chromium	(Cr)	0.010	U	5.0	P
Lead	(Pb)	0.353		5.0	P
Mercury	(Hg)	0.0002	U	0.2	CV
Selenium	(Se)	0.003	U	1.0	F
Silver	(Ag)	0.010	U	5.0	P
Tin	(Sn)	0.500	U	*NA	P
Zinc	(Zn)	93.2		*NA	P

Laboratory Method Blank

Arsenic	(As)	0.002	U	5.0	F
Barium	(Ba)	0.137		100.0	P
Cadmium	(Cd)	0.005	U	1.0	P
Chromium	(Cr)	0.010	U	5.0	P
Lead	(Pb)	0.030	U	5.0	P
Mercury	(Hg)	0.0002	U	0.2	CV
Selenium	(Se)	0.003	U	1.0	F
Silver	(Ag)	0.010	U	5.0	P
Tin	(Sn)	0.500	U	*NA	P
Zinc	(Zn)	0.071		*NA	P

(1) Maximum Concentration Based on 40 CFR Chapter 1, Part 261.24

* Regualtory limits do not exist for tin and zinc.

NatEx Laboratories, Inc.
Pacific Northwest Environmental Laboratory, Inc.

\TCLP

TCLP ANALYSIS DATA SHEET
40 CFR Part 268, Method 1311

Client Sample ID:	Comp. L4-S1 thru L4-S6	**PNELI Sample ID:**	2933-04
Sample Matrix:	Soil	**Date Sample Received:**	02-13-91
Wt. Soil Extracted:	100 g	**Vol. Leachate:**	2.0 ℓ
Units of Measure:	mg/ℓ		

EP Toxicity Metals		Leachate Concentration		Maximum(1) Concentration	Method of Analysis
Arsenic	(As)	0.008		5.0	F
Barium	(Ba)	0.182		100.0	P
Cadmium	(Cd)	0.005	U	1.0	P
Chromium	(Cr)	0.011		5.0	P
Lead	(Pb)	1.07		5.0	P
Mercury	(Hg)	0.0002	U	0.2	CV
Selenium	(Se)	0.003	U	1.0	F
Silver	(Ag)	0.010	U	5.0	P
Tin	(Sn)	0.500	U	*NA	P
Zinc	(Zn)	48.6		*NA	P

Laboratory Method Blank

Arsenic	(As)	0.002	U	5.0	F
Barium	(Ba)	0.137		100.0	P
Cadmium	(Cd)	0.005	U	1.0	P
Chromium	(Cr)	0.010	U	5.0	P
Lead	(Pb)	0.030	U	5.0	P
Mercury	(Hg)	0.0002	U	0.2	CV
Selenium	(Se)	0.003	U	1.0	F
Silver	(Ag)	0.010	U	5.0	P
Tin	(Sn)	0.500	U	*NA	P
Zinc	(Zn)	0.071		*NA	P

(1) Maximum Concentration Based on 40 CFR Chapter 1, Part 261.24

* Regualtory limits do not exist for tin and zinc.

NatEx Laboratories, Inc.
Pacific Northwest Environmental Laboratory, Inc.

\TCLP

TCLP ANALYSIS DATA SHEET
40 CFR Part 268, Method 1311

Client Sample ID:	Comp. L5-S1 thru L5-S6	**PNELI Sample ID:**	2933-05
Sample Matrix:	Soil	**Date Sample Received:**	02-13-91
Wt. Soil Extracted:	100 g	**Vol. Leachate:**	2.0 ℓ
Units of Measure:	mg/ℓ		

EP Toxicity Metals		Leachate Concentration		Maximum(1) Concentration	Method of Analysis
Arsenic	(As)	0.002		5.0	F
Barium	(Ba)	0.164		100.0	P
Cadmium	(Cd)	0.005	U	1.0	P
Chromium	(Cr)	0.010	U	5.0	P
Lead	(Pb)	0.069		5.0	P
Mercury	(Hg)	0.0002	U	0.2	CV
Selenium	(Se)	0.003	U	1.0	F
Silver	(Ag)	0.010	U	5.0	P
Tin	(Sn)	0.500	U	*NA	P
Zinc	(Zn)	13.0		*NA	P

Laboratory Method Blank

Arsenic	(As)	0.002	U	5.0	F
Barium	(Ba)	0.137		100.0	P
Cadmium	(Cd)	0.005	U	1.0	P
Chromium	(Cr)	0.010	U	5.0	P
Lead	(Pb)	0.030	U	5.0	P
Mercury	(Hg)	0.0002	U	0.2	CV
Selenium	(Se)	0.003	U	1.0	F
Silver	(Ag)	0.010	U	5.0	P
Tin	(Sn)	0.500	U	*NA	P
Zinc	(Zn)	0.071		*NA	P

(1) Maximum Concentration Based on 40 CFR Chapter 1, Part 261.24

* Regualtory limits do not exist for tin and zinc.

NatEx Laboratories, Inc.
Pacific Northwest Environmental Laboratory, Inc.

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TCLP ANALYSIS DATA SHEET
40 CFR Part 268, Method 1311

Client Sample ID:	Comp. L6-S1 thru L6-S6	**PNELI Sample ID:**	2933-06
Sample Matrix:	Soil	**Date Sample Received:**	02-13-91
Wt. Soil Extracted:	100 g	**Vol. Leachate:**	2.0 ℓ
Units of Measure:	mg/ℓ		

EP Toxicity Metals		Leachate Concentration		Maximum(1) Concentration	Method of Analysis
Arsenic	(As)	0.002	U	5.0	F
Barium	(Ba)	0.189		100.0	P
Cadmium	(Cd)	0.005	U	1.0	P
Chromium	(Cr)	0.010	U	5.0	P
Lead	(Pb)	0.173		5.0	P
Mercury	(Hg)	0.0002	U	0.2	CV
Selenium	(Se)	0.003	U	1.0	F
Silver	(Ag)	0.010	U	5.0	P
Tin	(Sn)	0.500	U	*NA	P
Zinc	(Zn)	27.3		*NA	P

Laboratory Method Blank

Arsenic	(As)	0.002	U	5.0	F
Barium	(Ba)	0.137		100.0	P
Cadmium	(Cd)	0.005	U	1.0	P
Chromium	(Cr)	0.010	U	5.0	P
Lead	(Pb)	0.030	U	5.0	P
Mercury	(Hg)	0.0002	U	0.2	CV
Selenium	(Se)	0.003	U	1.0	F
Silver	(Ag)	0.010	U	5.0	P
Tin	(Sn)	0.500	U	*NA	P
Zinc	(Zn)	0.071		*NA	P

(1) Maximum Concentration Based on 40 CFR Chapter 1, Part 261.24

* Regualtory limits do not exist for tin and zinc.

NatEx Laboratories, Inc.
Pacific Northwest Environmental Laboratory, Inc.

\TCLP

TCLP ANALYSIS DATA SHEET
40 CFR Part 268, Method 1311

Client Sample ID:	Rinseate Blank	**PNELI Sample ID:**	2933-07
Sample Matrix:	Water	**Date Sample Received:**	02-13-91
Wt. Soil Extracted:	NA	**Vol. Leachate:**	2.0 ℓ
Units of Measure:	mg/ℓ		

EP Toxicity Metals		Leachate Concentration		Maximum(1) Concentration	Method of Analysis
Arsenic	(As)	0.002	U	5.0	F
Barium	(Ba)	0.015	U	100.0	P
Cadmium	(Cd)	0.005	U	1.0	P
Chromium	(Cr)	0.010	U	5.0	P
Lead	(Pb)	0.030	U	5.0	P
Mercury	(Hg)	0.0002	U	0.2	CV
Selenium	(Se)	0.003	U	1.0	F
Silver	(Ag)	0.010	U	5.0	P
Tin	(Sn)	0.500	U	*NA	P
Zinc	(Zn)	0.052		*NA	P

Laboratory Method Blank

Arsenic	(As)	0.002	U	5.0	F
Barium	(Ba)	0.137		100.0	P
Cadmium	(Cd)	0.005	U	1.0	P
Chromium	(Cr)	0.010	U	5.0	P
Lead	(Pb)	0.030	U	5.0	P
Mercury	(Hg)	0.0002	U	0.2	CV
Selenium	(Se)	0.003	U	1.0	F
Silver	(Ag)	0.010	U	5.0	P
Tin	(Sn)	0.500	U	*NA	P
Zinc	(Zn)	0.071		*NA	P

(1) Maximum Concentration Based on 40 CFR Chapter 1, Part 261.24

* Regualtory limits do not exist for tin and zinc.

NatEx Laboratories, Inc.
Pacific Northwest Environmental Laboratory, Inc.

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TCLP DUPLICATE/MATRIX SPIKE ANALYSIS DATA SHEET
40 CFR Part 268, Method 1311

Sample Duplicate

Client Sample ID:	Comp. L3-S1 thru L3-S6	**PNELI Sample ID:**	2933-03DUP
Sample Matrix:	Soil	**Date Sample Received:**	02-13-91
Wt. Soil Extracted:	100 g	**Vol. Leachate:**	2.0 ℓ
Units of Measure:	mg/ℓ		

EP Toxicity Metals		Duplicate Sample Leachate Concentration		Original Sample Leachate Concentration		Relative Percent Difference
Arsenic	(As)	0.002		0.002		0
Barium	(Ba)	0.147		0.085		53.4
Cadmium	(Cd)	0.016		0.016		0
Chromium	(Cr)	0.010	U	0.010	U	NC
Lead	(Pb)	0.363		0.353		2.8
Mercury	(Hg)	0.0002	U	0.0002	U	NC
Selenium	(Se)	0.003	U	0.003	U	NC
Silver	(Ag)	0.010	U	0.010	U	NC
Tin	(Sn)	0.500	U	0.500	U	NC
Zinc	(Zn)	89.4		93.2		4.2

Labratory Matrix Spike

Client Sample ID:	Comp. L3-S1 thru L3-S6	**PNELI Sample ID:**	2933-03
Sample Matrix:	Soil	**Date Sample Received:**	02-13-91
Wt. Soil Extracted:	100 g	**Vol. Leachate:**	2.0 ℓ
Units of Measure:	mg/ℓ		

EP Toxicity Metals		Spike Sample Leachate Concentration	Original Sample Leachate Concentration		Spike Level	Percent Recovery
Arsenic	(As)	0.040	0.002		0.040	95.0
Barium	(Ba)	1.95	0.085		2.0	93.2
Cadmium	(Cd)	0.065	0.016		0.050	98.0
Chromium	(Cr)	0.205	0.010	U	0.200	102
Lead	(Pb)	0.829	0.353		0.500	95.2
Mercury	(Hg)	0.00089	0.0002	U	0.001	89.0
Selenium	(Se)	0.006	0.003	U	0.010	60
Silver	(Ag)	0.046	0.010	U	0.050	92.0
Zinc	(Zn)	96.2	93.2		0.500	NS

NatEx Laboratories, Inc.
Pacific Northwest Environmental Laboratory, Inc.

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INORGANIC ANALYSIS REPORT

Client Sample ID	Comp. L1-S1 thru L1-S6	Comp. L2-S1 thru L2-S6	Comp. L3-S1 thru L3-S6	Comp. L4-S1 thru L4-S6
PNELI Sample ID	2933-01	2933-02	2933-03	2933-04
Sample Matrix	Soil	Soil	Soil	Soil
Date Sample Received	02-13-91	02-13-91	02-13-91	02-13-91
Date Sample Analyzed	02-15-91	02-15-91	02-15-91	02-15-91

Compound				
Soil pH measured in deionized water	—	—	7.43	—
Soil pH measured in 0.01M $CaCl_2$	8.02	9.28	—	8.32

NatEx Laboratories, Inc.
Pacific Northwest Environmental Laboratory, Inc.

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INORGANIC ANALYSIS REPORT

Client Sample ID	Comp. L5-S1 thru L5-S6	Comp. L6-S1 thru L6-S6
PNELI Sample ID	2933-05	2933-06
Sample Matrix	Soil	Soil
Date Sample Received	02-13-91	02-13-91
Date Sample Analyzed	02-15-91	02-15-91

Compound		
Soil pH measured in deionized water	—	7.75
Soil pH measured in 0.01M $CaCl_2$	7.61	—

NatEx Laboratories, Inc.
Pacific Northwest Environmental Laboratory, Inc.

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INORGANIC DUPLICATE ANALYSIS REPORT

Client Sample ID: Comp. L3-S1 thru L3-S6 **PNELI Sample ID:** 2933-03

Sample Matrix: Soil **Date Sample Received:** 02-13-91

Analyte	Duplicate Sample Concentration	Original Sample Concentration	Relative % Difference
Soil pH measured in deionized water	7.33	7.43	1.36

NatEx Laboratories, Inc.
Pacific Northwest Environmental Laboratory, Inc.

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INORGANIC ANALYSIS REPORT

Client Sample ID	Comp. L2-S1 thru L2-S6	Comp. L2-S1 thru L2-S6	Comp. L2-S1 thru L2-S6
PNELI Sample ID	2933-02	2933-02	2933-02
Sample Matrix	Soil	Soil	Soil
Date Sample Received	02-13-91	02-13-91	02-13-91
Date Sample Analyzed	03-02-91	03-02-91	02-27-91
Units of Measure	mg/kg	mg/kg	°C
Compound			
Reactive Cyanide	5.0 U	—	—
Reactive Sulfide	—	50.0 U	—
Ignitability	—	—	>100

RECEIVED
FEB 27 1998
DEPT. OF ECOLOGY

City of Seattle
Paul Schell, *Mayor*

King County
Ron Sims, *Executive*

Seattle-King County Department of Public Health

Alonzo L. Plough, Ph.D., MPH, *Director*

February 17, 1998

Port of Seattle
Property Manager
PO Box 1209
Seattle, WA 98111

Dear Owner:

The Seattle-King County Health Department has completed the site hazard assessment (SHA) of the MST Chemical at Terminal 115 site, as required under the Model Toxics Control Act. This site's hazard ranking, an estimation of the potential threat to human health and/or the environment relative to all other Washington State sites assessed at this time, has been determined to be a 5, where 1 represents the highest relative risk and 5 the lowest.

For your information, the Washington State Department of Ecology will be publishing the ranking of this and other recently assessed sites in the February 17, 1998 special issue of the Site Register. The site hazard ranking will be used in conjunction with other site-specific considerations in determining Ecology's priority for future actions.

If you have any questions relating to the SHA of your site, please contact me at (206) 296-4724. If you have any inquiries or comments about the site scoring/ranking process, please call Michael Spencer at (360) 407-7195. For inquiries regarding any further activities at your site now that it is on Ecology's Hazardous Sites List, please call Norm Peck at (425) 649-7047.

Sincerely,

Peter Isaksen
Environmental Health Specialist

CT:ma

cc: Michael Spencer, Department of Ecology Headquarters
Norm Peck, Department of Ecology Northwest Regional Office
Dennis Griffith, Schnitzer Steel Industries, Inc.

solidwaste/template/letter2

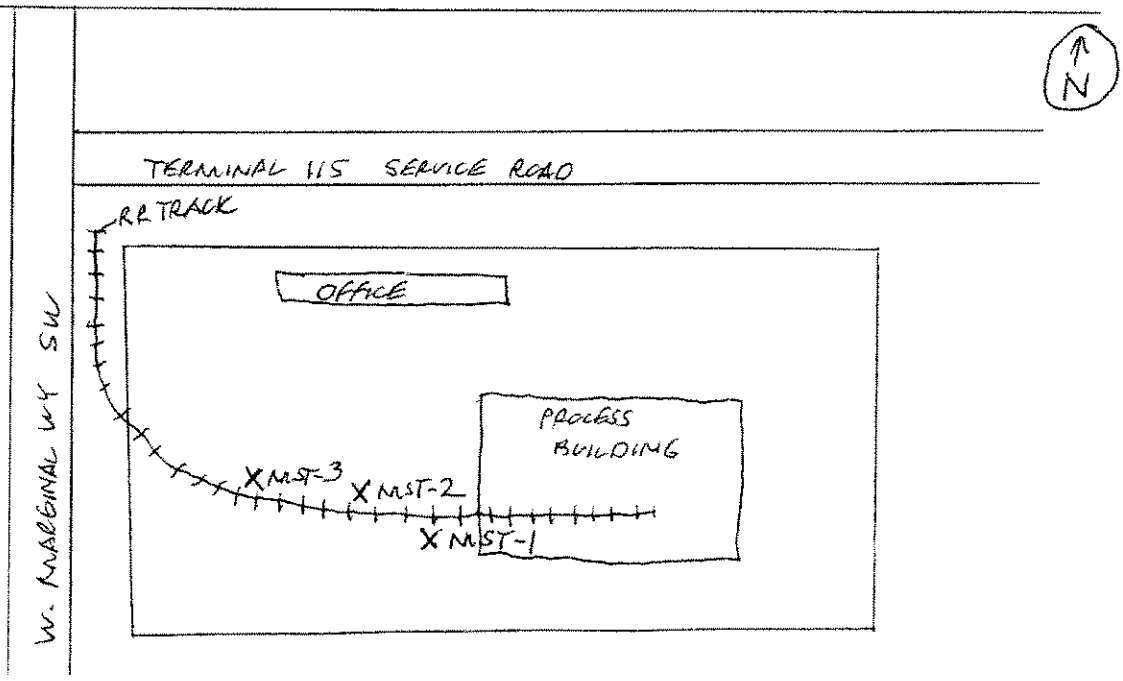
FIELD SAMPLE SHEET

Property Name: MST CHEMICALS
6020 W. MARGINAL WY SW

DATE: 11/07/97

Sample #	Type of Sample	Location/DEPTH
1. MST-1	SOIL/METALS	SEE MAP/6"
2. MST-2	SOIL/METALS	SEE MAP/5"
3. MST-3	SOIL/METALS	SEE MAP/16"
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Location Map:



Date of Report: November 17, 1997
Samples Submitted: November 7, 1997
Lab Traveler: 11-031
Project: MST Chemical

Total Metals
EPA 6010/7471

Date Extracted: 11-10&13-97
Date Analyzed: 11-12&13-97

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 11-031-1
Client ID: MST-1

Analyte	Method	Dilution Factor	Result	PQL
Arsenic	6010	1.0	**ND**	11
Barium	6010	1.0	**120**	0.57
Cadmium	6010	1.0	**0.98**	0.57
Chromium	6010	1.0	**22**	0.57
Lead	6010	1.0	**470**	5.7
Mercury	7471	1.0	**ND**	0.29
Selenium	6010	1.0	**ND**	11
Silver	6010	1.0	**ND**	0.57
Tin	6010	1.0	**550**	57
Zinc	6010	1.0	**310**	0.57

Date of Report: November 17, 1997
Samples Submitted: November 7, 1997
Lab Traveler: 11-031
Project: MST Chemical

Total Metals
EPA 6010/7471

Date Extracted: 11-10&13-97
Date Analyzed: 11-12&13-97

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 11-031-2
Client ID: MST-2

Analyte	Method	Dilution Factor	Result	PQL
Arsenic	6010	1.0	**ND**	11
Barium	6010	1.0	**32**	0.54
Cadmium	6010	1.0	**0.69**	0.54
Chromium	6010	1.0	**33**	0.54
Lead	6010	1.0	**110**	5.4
Mercury	7471	1.0	**ND**	0.27
Selenium	6010	1.0	**ND**	11
Silver	6010	1.0	**ND**	0.54
Tin	6010	10.0	**880**	540
Zinc	6010	1.0	**330**	0.54

Date of Report: November 17, 1997
Samples Submitted: November 7, 1997
Lab Traveler: 11-031
Project: MST Chemical

Total Metals
EPA 6010/7471

Date Extracted: 11-10&13-97
Date Analyzed: 11-12&13-97

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 11-031-3
Client ID: MST-3

Analyte	Method	Dilution Factor	Result	PQL
Arsenic	6010	1.0	**ND**	12
Barium	6010	1.0	**19**	0.59
Cadmium	6010	1.0	**ND**	0.59
Chromium	6010	1.0	**8.4**	0.59
Lead	6010	1.0	**36**	5.9
Mercury	7471	1.0	**ND**	0.29
Selenium	6010	1.0	**ND**	12
Silver	6010	1.0	**ND**	0.59
Tin	6010	1.0	**170**	59
Zinc	6010	1.0	**76**	0.59

Date of Report: November 17, 1997
Samples Submitted: November 7, 1997
Lab Traveler: 11-031
Project: MST Chemical

Total Metals
EPA 6010/7471
METHOD BLANK QUALITY CONTROL

Date Extracted: 11-10&13-97
Date Analyzed: 11-12&13-97

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB1110S1/MB1113S1

Analyte	Method	Dilution Factor	Result	PQL
Arsenic	6010	1.0	**ND**	10
Barium	6010	1.0	**ND**	0.50
Cadmium	6010	1.0	**ND**	0.50
Chromium	6010	1.0	**ND**	0.50
Lead	6010	1.0	**ND**	5.0
Mercury	7471	1.0	**ND**	0.25
Selenium	6010	1.0	**ND**	10
Silver	6010	1.0	**ND**	0.50
Tin	6010	1.0	**ND**	50.0
Zinc	6010	1.0	**ND**	0.50

Date of Report: November 17, 1997
Samples Submitted: November 7, 1997
Lab Traveler: 11-031
Project: MST Chemical

Total Metals
EPA 6010/7471
DUPLICATE QUALITY CONTROL

Date Extracted: 11-10&13-97
Date Analyzed: 11-12&13-97

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 11-024-1

Analyte	Dilution	Sample Result	Duplicate Result	RPD	Flags	PQL
Arsenic	1.0	**ND**	**ND**	NA		10
Barium	1.0	**45.4**	**44.5**	2.1		0.50
Cadmium	1.0	**ND**	**ND**	NA		0.50
Chromium	1.0	**7.40**	**6.80**	8.5		0.50
Lead	1.0	**14.5**	**14.1**	3.2		5.0
Mercury	1.0	**ND**	**ND**	NA		0.25
Selenium	1.0	**ND**	**ND**	NA		10
Silver	1.0	**ND**	**ND**	NA		0.50
Tin	1.0	**ND**	**ND**	NA		50.0
Zinc	1.0	**39.6**	**40.1**	1.1		0.50

Date of Report: November 17, 1997
Samples Submitted: November 7, 1997
Lab Traveler: 11-031
Project: MST Chemical

Total Metals
EPA 6010/7471
MS/MSD QUALITY CONTROL

Date Extracted: 11-10&13-97
Date Analyzed: 11-12&13-97

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 11-024-1

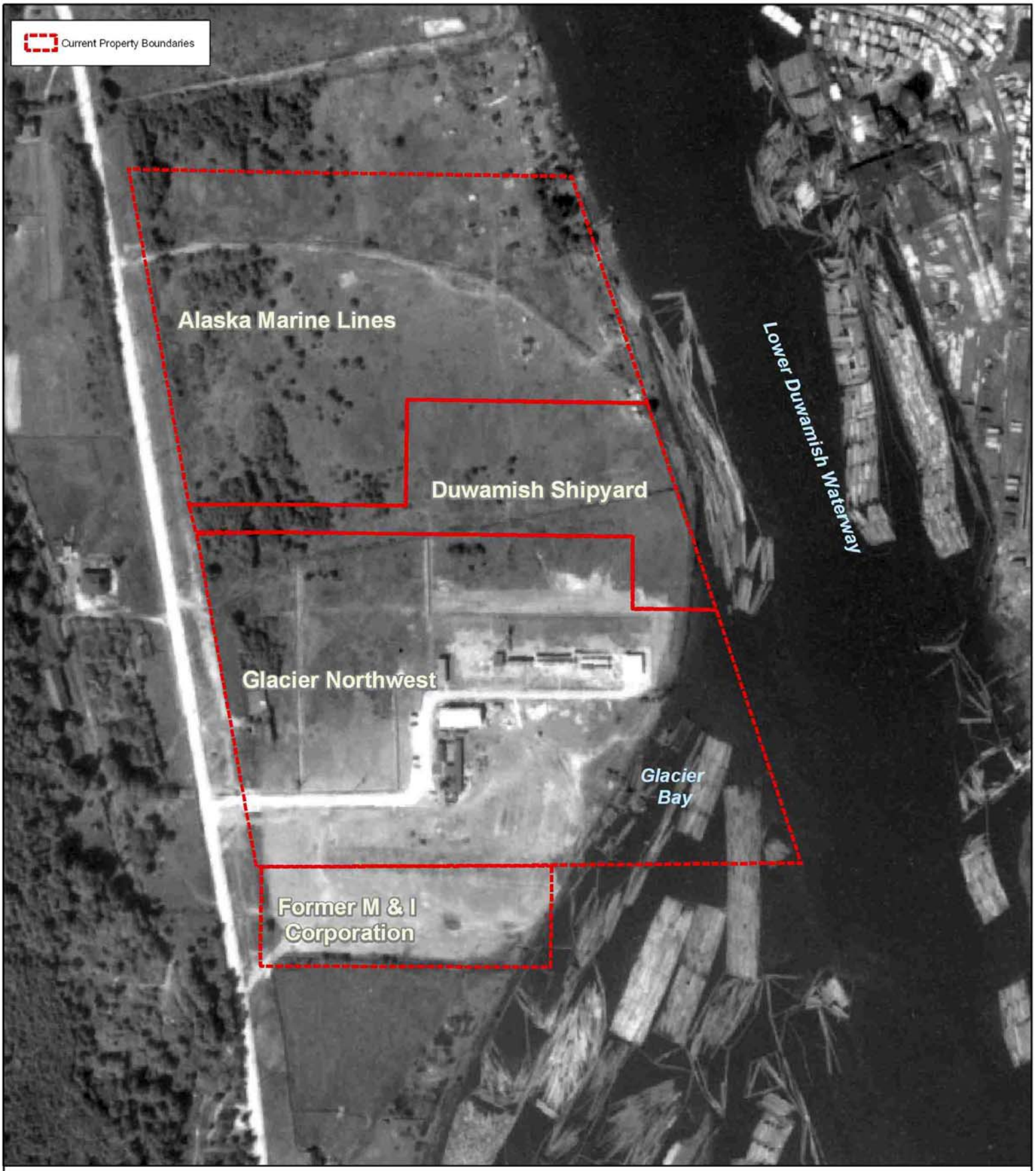
Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	**82.6**	83	**84.9**	85	2.7	
Barium	100	**126**	80	**137**	92	14	
Cadmium	50	**36.8**	74	**38.6**	77	4.6	
Chromium	100	**92.2**	85	**94.2**	87	2.4	
Lead	250	**197**	73	**204**	76	3.8	
Mercury	2.5	**2.57**	103	**2.43**	97	5.8	
Selenium	100	**114**	114	**108**	108	5.8	
Silver	50	**33.7**	67	**30.7**	61	9.3	
Tin	250	**182**	73	**185**	74	1.7	
Zinc	50	**83.1**	87	**77.7**	76	13	

Date of Report: November 17, 1997
Samples Submitted: November 7, 1997
Lab Traveler: 11-031
Project: MST Chemical

Date Analyzed: 11-10-97

% MOISTURE

Client ID	Lab ID	% Moisture
MST-1	11-031-1	13
MST-2	11-031-2	8.0
MST-3	11-031-3	15



N

0 25 50 100 150 200 Meters

1941 Aerial Photo

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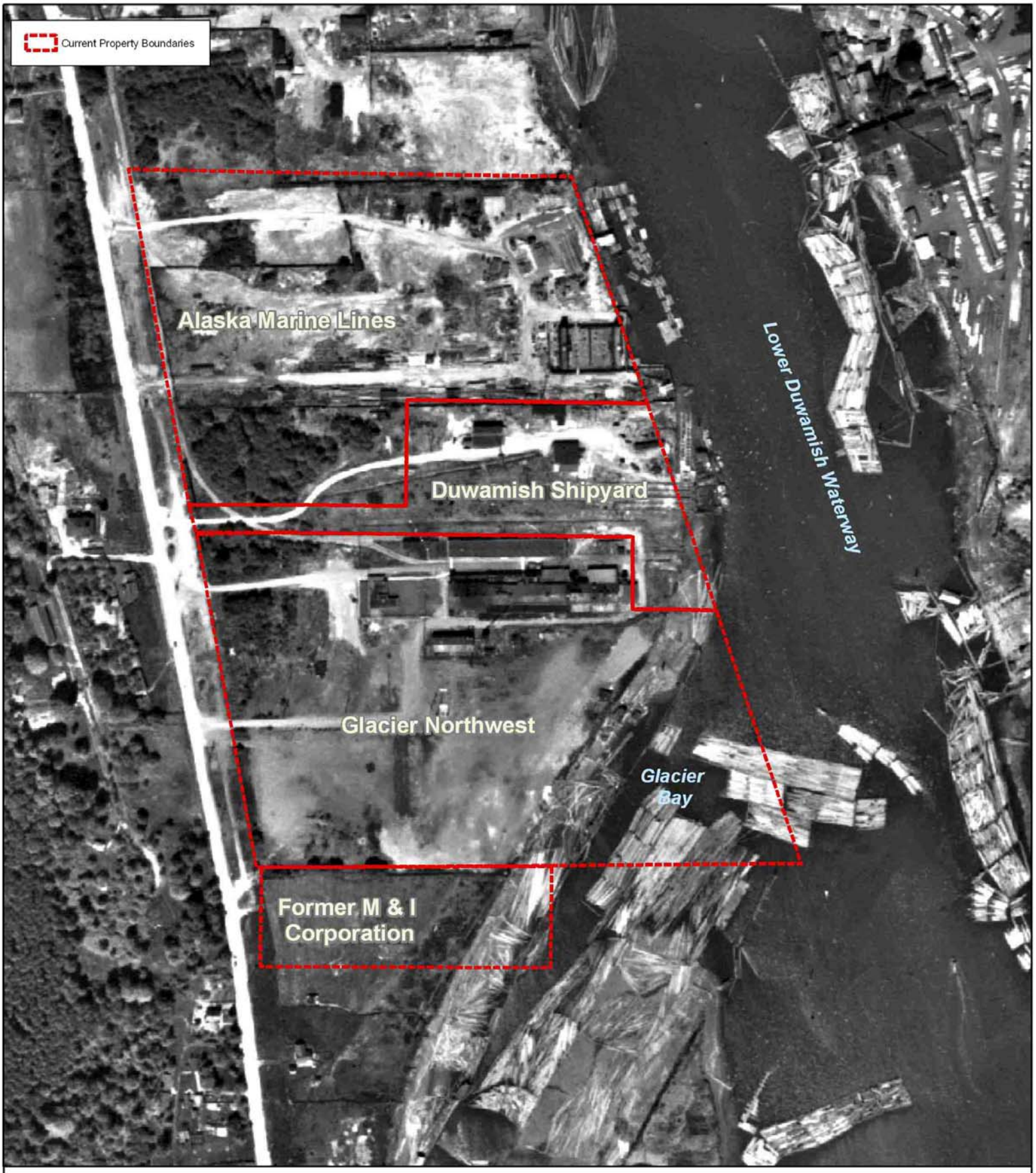

N

0 25 50 100 150 200 Meters

1946 Aerial Photo

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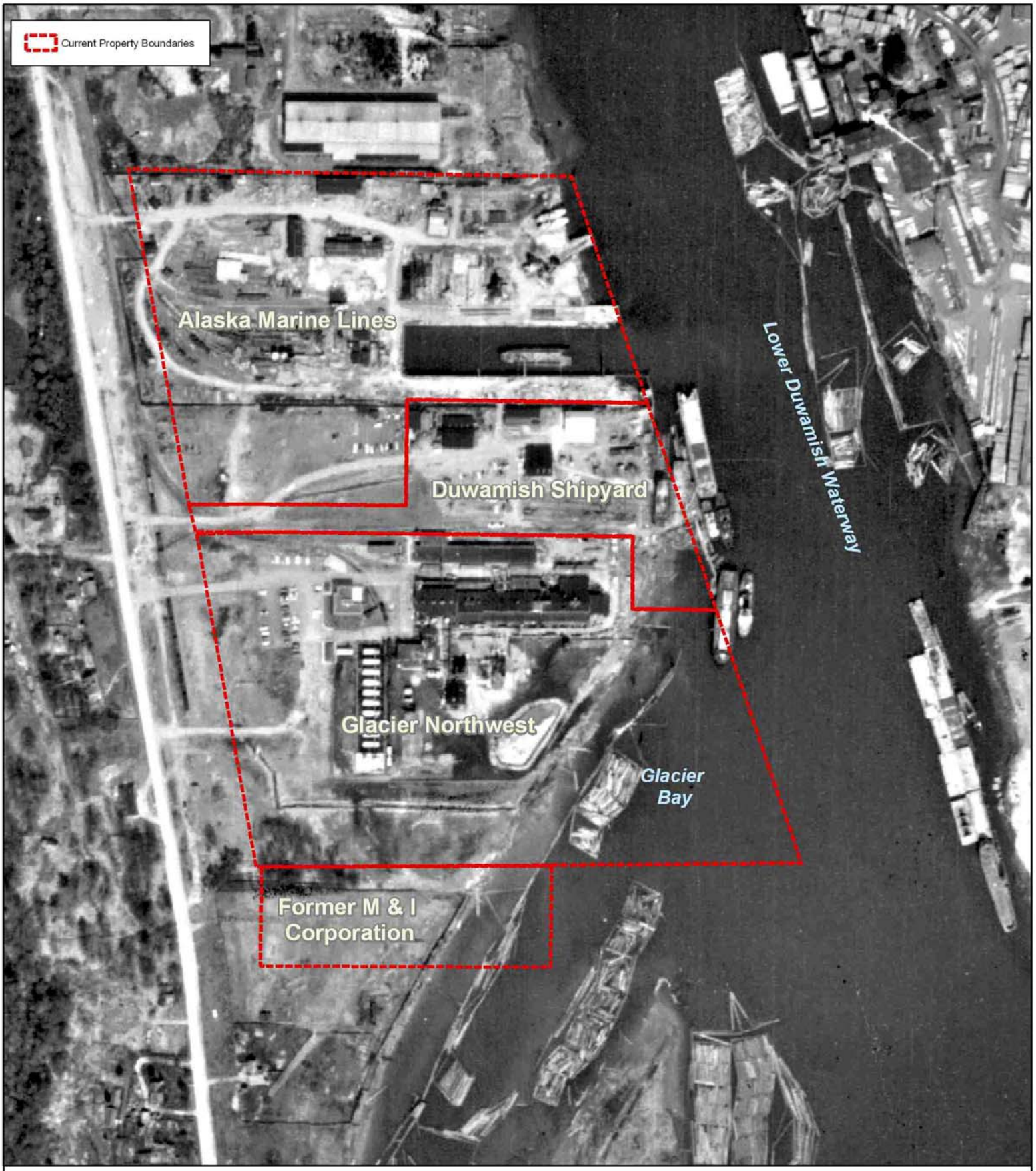

N

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1956 Aerial Photo

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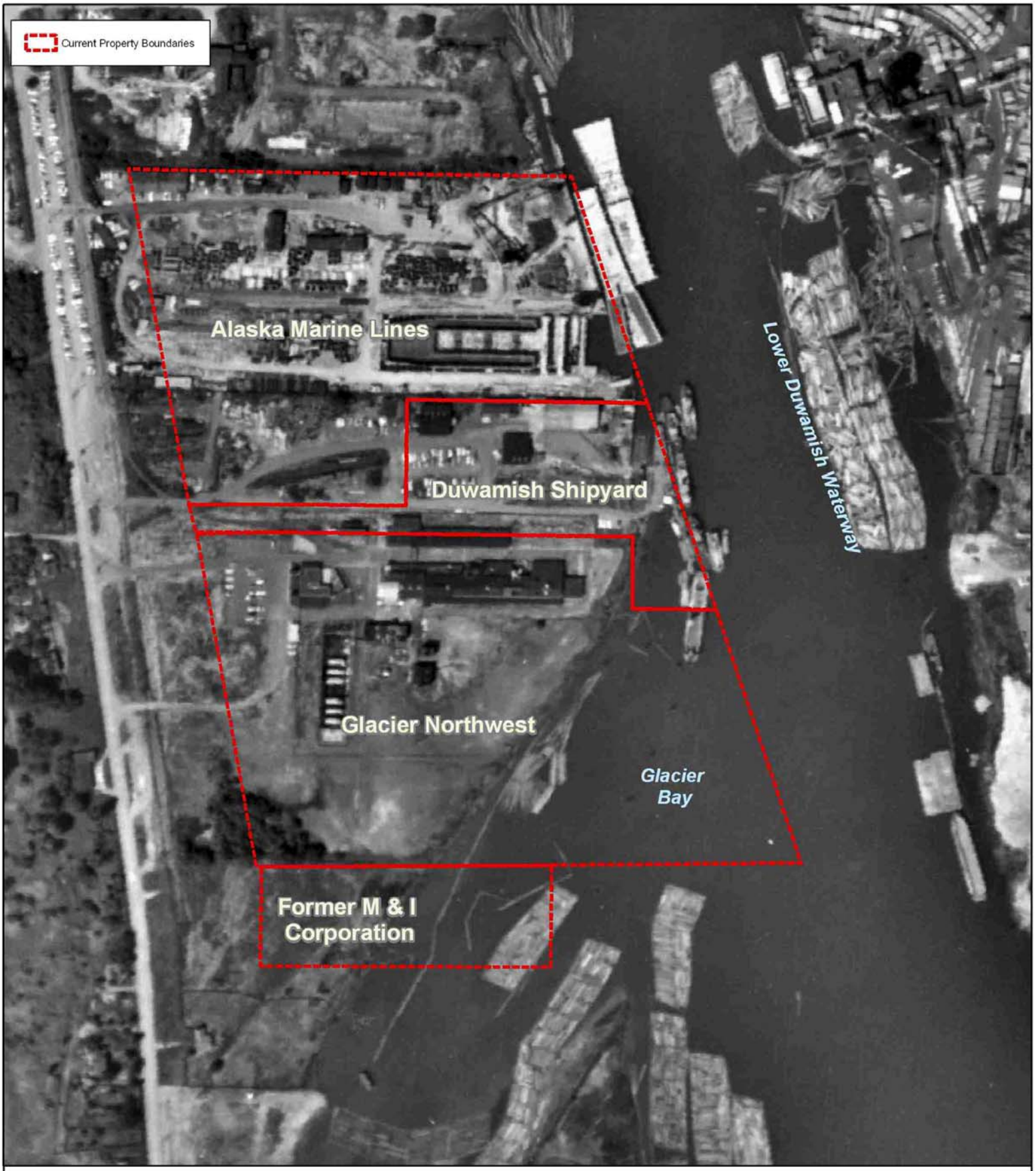

N

0 25 50 100 150 200 Meters

1960 Aerial Photo

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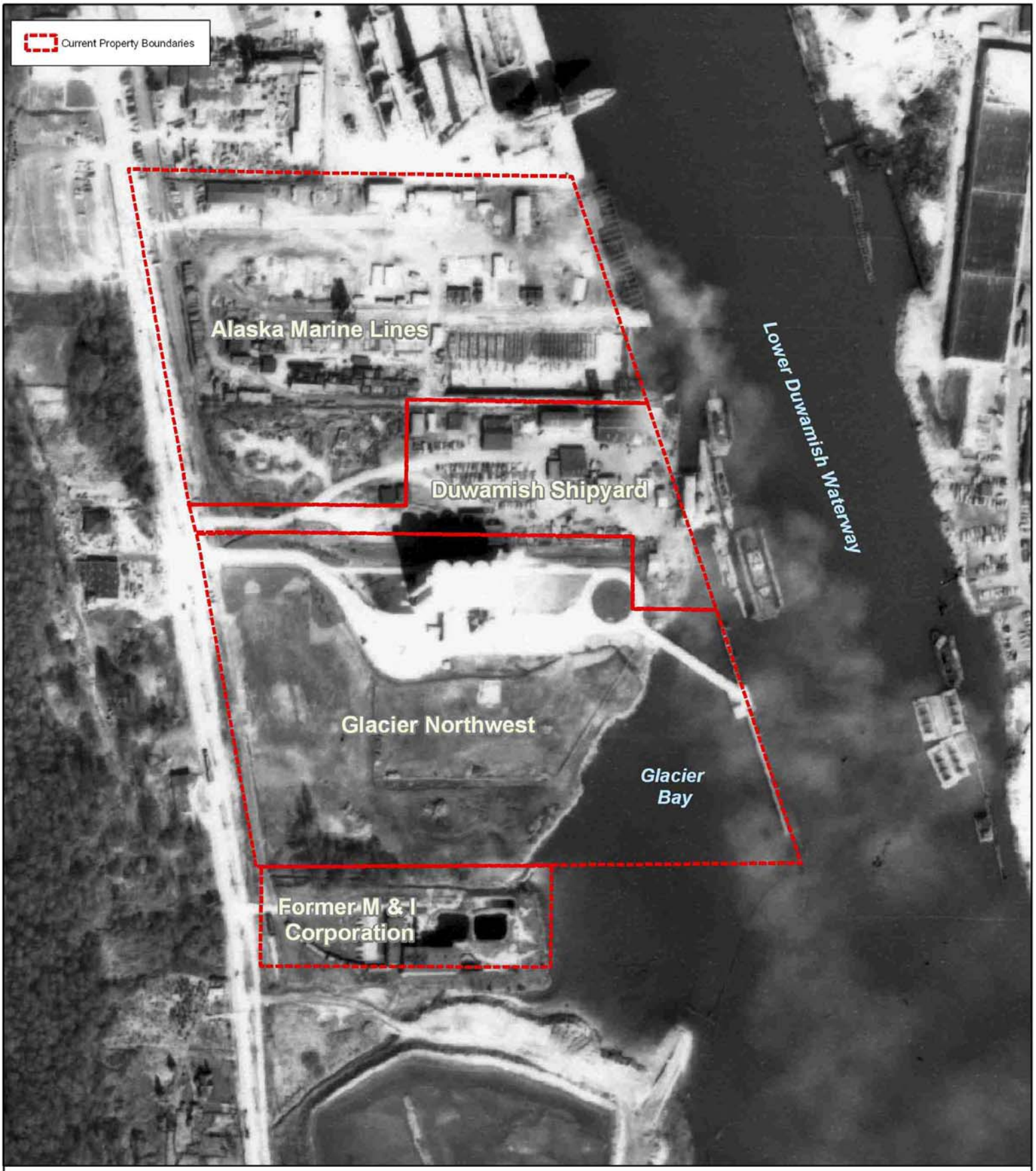

N

0 25 50 100 150 200 Meters

1969 Aerial Photo

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