N

Legend

Survey Unit Boundary

- Horizontal Surface
- Vertical Surface

Gamma Survey Results (Z-Score)

- ≤ 0.9
- 1.0 - 1.9
- 2.0 - 2.9
- ≥ 3.0

Note: Gamma Survey was performed with RS-700 and Ludlum 2221/44-20 (3x3 NaI). Static measurements collected with Ludlum 2221/44-20 (3x3 NaI).

Gamma Bias Static Measurement Investigation Level (IL)
Concrete = 14,501 cpm
Metal = 7,184 cpm

'RED' cpm result indicates that the static result exceeds the IL and an Inspector 1000 shot was collected.

cpm = counts per minute

0 40 80
Scale (feet)

SURVEY UNIT (SU) 1

HUNTERS POINT NAVAL SHIPYARD
SAN FRANCISCO, CALIFORNIA

12/2019	PROJECT No. R3-0016.01	FIGURE

Alpha Data Statistics Survey Unit 2 (Horizontal Surface) (Alpha dpm/100 cm2)	
# of Measurements	6,150
Minimum	-69.4
Maximum	331.5
Mean	37.2
Standard Deviation (σ)	57.7

Survey Unit 2
Drydock 6
(Class 2)
Total Area (1,247 m²)

Survey Requirements
- 100% Gamma Scan
- 25% Alpha/Beta Scan

N

Legend

Survey Unit Boundary

Horizontal Surface

Vertical Surface

Scan Data Results

(Alpha dpm/100 cm2)

- ≤19.9
- 20.0 - 49.9
- 50.0 - 99.9
- ≥100.0

Note: Alpha-Beta survey was performed with a Ludlum 2360/ 43-37 Floor Monitor

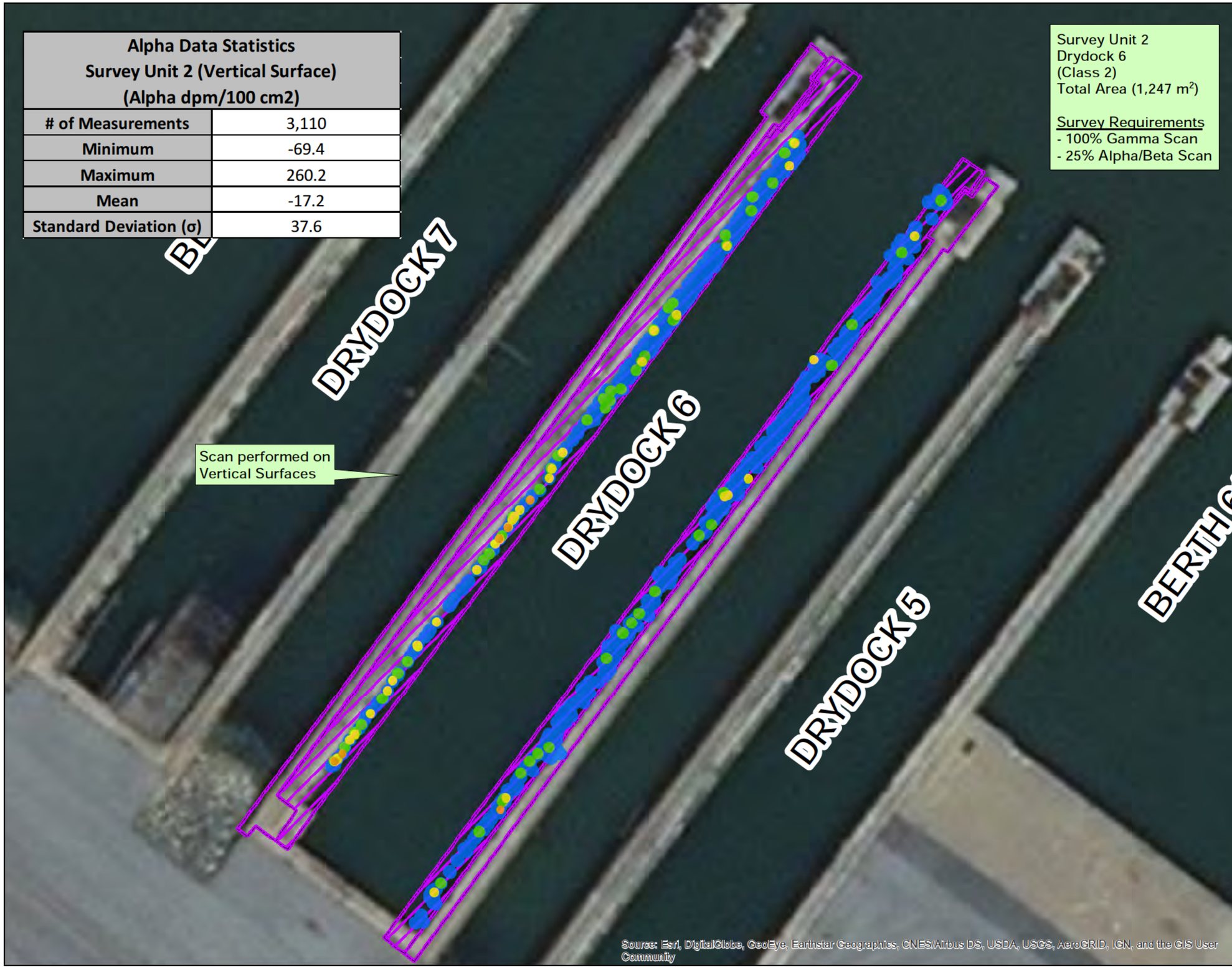
0 40 80
Scale (feet)

SURVEY UNIT (SU) 2

HUNTERS POINT NAVAL SHIPYARD
SAN FRANCISCO, CALIFORNIA

12/2019	PROJECT No. R3-0016.01	FIGURE

Alpha Data Statistics Survey Unit 2 (Vertical Surface) (Alpha dpm/100 cm2)	
# of Measurements	3,110
Minimum	-69.4
Maximum	260.2
Mean	-17.2
Standard Deviation (σ)	37.6



Survey Unit 2
Drydock 6
(Class 2)
Total Area (1,247 m²)

Survey Requirements
- 100% Gamma Scan
- 25% Alpha/Beta Scan

N

Legend

Survey Unit Boundary

Horizontal Surface

Vertical Surface

Scan Data Results

(Alpha dpm/100 cm2)

- ≤19.9
- 20.0 - 49.9
- 50.0 - 99.9
- ≥100.0

Note: Alpha-Beta survey was performed with a Ludlum 2360/ 43-37 Floor Monitor

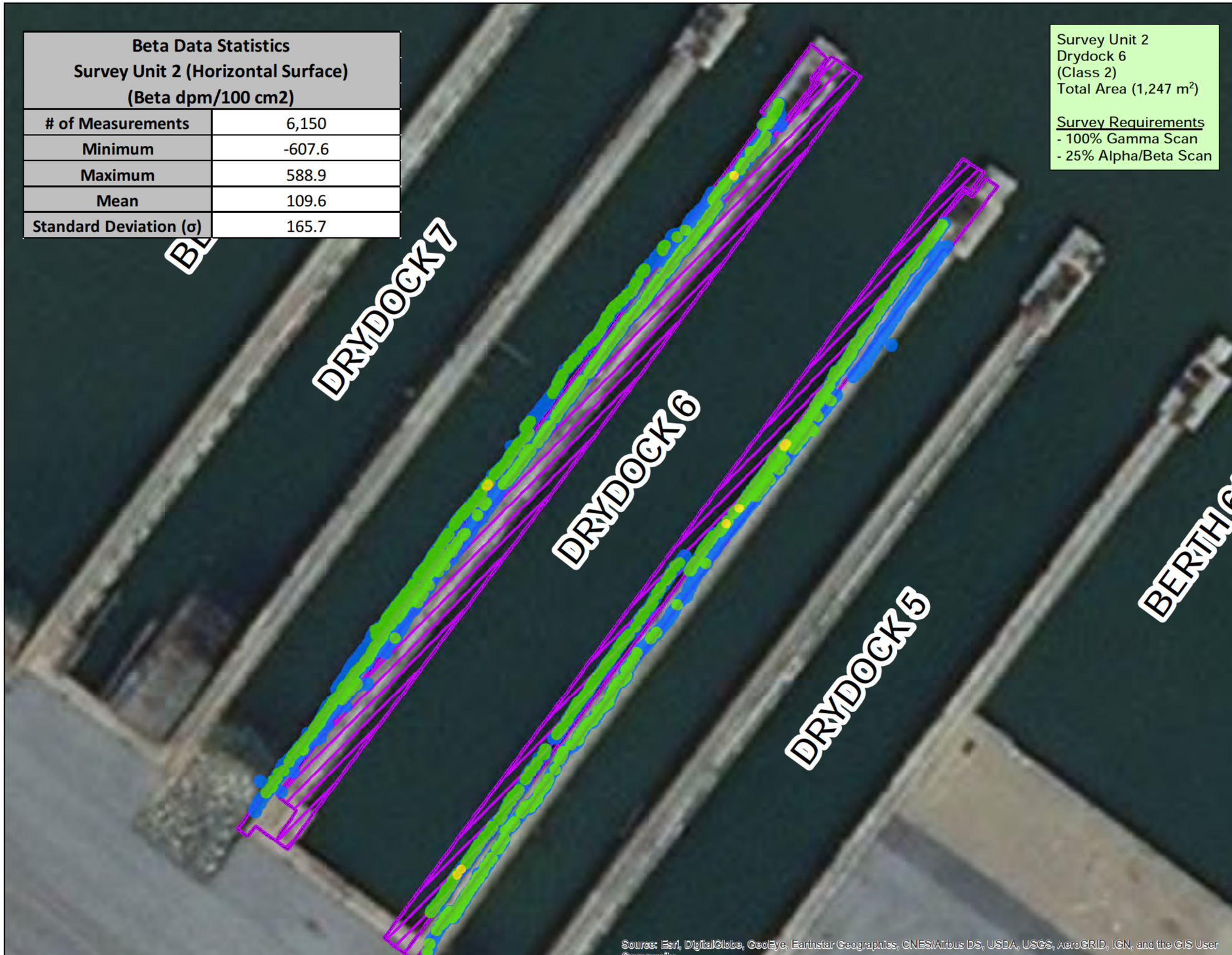
0 40 80
Scale (feet)

SURVEY UNIT (SU) 2

HUNTERS POINT NAVAL SHIPYARD
SAN FRANCISCO, CALIFORNIA

12/2019	PROJECT No. R3-0016.01	FIGURE

Beta Data Statistics Survey Unit 2 (Horizontal Surface) (Beta dpm/100 cm2)	
# of Measurements	6,150
Minimum	-607.6
Maximum	588.9
Mean	109.6
Standard Deviation (σ)	165.7



Survey Unit 2
Drydock 6
(Class 2)
Total Area (1,247 m²)

Survey Requirements
- 100% Gamma Scan
- 25% Alpha/Beta Scan

N

Legend

Survey Unit Boundary

- Horizontal Surface
- Vertical Surface

Scan Data Results

(Beta dpm/100 cm2)

- ≤199.9
- 200.0 - 499.9
- 500.0 - 999.9
- ≥1000.0

Note: Alpha-Beta survey was performed with a Ludlum 2360/ 43-37 Floor Monitor

0 40 80
Scale (feet)

SURVEY UNIT (SU) 2

HUNTERS POINT NAVAL SHIPYARD
SAN FRANCISCO, CALIFORNIA

12/2019	PROJECT No. R3-0016.01	FIGURE

Beta Data Statistics Survey Unit 2 (Vertical Surface) (Beta dpm/100 cm2)	
# of Measurements	3,110
Minimum	-852.6
Maximum	447.3
Mean	-149.9
Standard Deviation (σ)	128.6

N

Legend

Survey Unit Boundary

Horizontal Surface

Vertical Surface

Scan Data Results

(Beta dpm/100 cm2)

- ≤199.9
- 200.0 - 499.9
- 500.0 - 999.9
- ≥1000.0

Note: Alpha-Beta survey was performed with a Ludlum 2360/ 43-37 Floor Monitor

0 40 80

Scale (feet)

SURVEY UNIT (SU) 2

HUNTERS POINT NAVAL SHIPYARD
SAN FRANCISCO, CALIFORNIA

12/2019	PROJECT No. R3-0016.01	FIGURE

N

Legend

Alpha-Beta Bias Static

Systematic Measurements

Horizontal Surface

Vertical Surface

Survey Unit Boundary

Horizontal Surface

Vertical Surface

0 40 80

Scale (feet)

SURVEY UNIT (SU) 2

HUNTERS POINT NAVAL SHIPYARD
SAN FRANCISCO, CALIFORNIA

1/2020	PROJECT No. R3-0016.01	FIGURE

N

Legend

Gamma Bias Static

Survey Unit Boundary

Horizontal Surface

Vertical Surface

Gamma Survey Results (Z-Score)

- ≤ 0.9
- 1.0 - 1.9
- 2.0 - 2.9
- ≥ 3.0

Note: Gamma Survey was performed with RS-700 and Ludlum 2221/44-20 (3x3 NaI). Static measurements collected with Ludlum 2221/44-20 (3x3 NaI).

Gamma Bias Static Measurement Investigation Level (IL)
Concrete = 14,501 cpm
Metal = 7,184 cpm

'RED' cpm result indicates that the static result exceeds the IL and an Inspector 1000 shot was collected.

cpm = counts per minute

0 40 80
Scale (feet)

SURVEY UNIT (SU) 2

HUNTERS POINT NAVAL SHIPYARD
SAN FRANCISCO, CALIFORNIA

12/2019	PROJECT No. R3-0016.01	FIGURE