

Draft Final
**SITE INVESTIGATION
SAMPLING FIELD VARIANCE FORM
INVESTIGATION AREA F1**
Mare Island, Vallejo, California

October 2006

Prepared for:



Base Realignment and Closure
Program Management Office West
San Diego, California

Prepared by:



A JOINT VENTURE OF SULLIVAN CONSULTING GROUP
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1230 Columbia Street, Suite 1000
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Prepared under:
Naval Facilities Engineering Command
Contract Number N68711-03-D-5104
Contract Task Order: 0095

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Kelly Ryan, Project Manager

Prepared under:
**Naval Facilities Engineering Command
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October 2006

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FIELD VARIANCE FORM

Title of Sampling and Analysis Plan (SAP):

Revised Draft Final Sampling and Analysis Plan (Field Sampling Plan/Quality Assurance Project Plan) Additional Sampling Investigation Area F1, Mare Island, Vallejo, California.

SAP Contract Number: N68711-03-C-5004

CLIN 0004

Date of SAP: June 2003

Date of SAP Approval: July 2, 2003

Description of Variance: Additional step-out soil sampling is required to further define the nature and extent of potential contamination at 15 building areas located in Investigation Area F1 at Mare Island. The building numbers to be sampled and descriptions of the buildings are as follows:

- Building A15 – Maintenance Warehouse (Figure 1)
- Building A31 – Magazine (Figure 2)
- Building A54 – Magazine (Figure 2)
- Building A278 – Vacuum System House (Figure 2)
- Building A228 – Ordnance Handling Division and Transportation Offices (Figure 3)
- Building A226 – Ordnance Warehouse Building (demolished) (Figure 3)
- Building A258 – Ordnance Warehouse (Figure 4)
- Building A266 Complex – Public Works Shop (Figure 5)
- Building A288 – Ordnance Production Operations (Figure 5)
- Building A53 – Ordnance Production Operations (demolished) (Figure 5)
- Building A62 – Ordnance Production Operations (demolished) (Figure 5)
- Building A73 – Ordnance Production Operations (demolished) (Figure 5)
- Building A198 (accessible shoreline area) - Store House (demolished) (Figure 5)
- Building A280 – Vacuum System House (Figure 6)
- Building A190 – Boiler House (demolished) (Figure 7)

Following the guidelines set forth in the original SAP, direct-push equipment will be used to collect two soil samples (0-0.5 feet below ground surface and 2-4 feet below ground surface) from 30 boring locations. Samples located inside buildings will be taken from the soil beneath

the concrete floor slabs of the building. Holes made in the building foundations will not be repaired. Sample depths and locations will be biased toward areas of visual staining or high field instrument readings. If groundwater is encountered in the borings in sufficient enough volume to allow for sampling, then a sample will be collected. The sample will be collected through installation of a temporary well screen. Groundwater samples will be collected at each location at which it is encountered in sufficient enough volume to pond for sampling, except from former building A198 because groundwater can not be differentiated from tidal water. A total of 8 groundwater samples will be submitted for laboratory analysis; samples collected after the first 8 samples will be held pending direction from the Navy. Proposed boring locations are presented on Figure 1 through Figure 7. Biased sample locations identified during the site reconnaissance are listed below.

- **Building A15** – No specific targets identified; samples will be collected on down-gradient side of building.
- **Building A31** – Storm water catchment basin along east side of building; no other targets identified so sample will be collected in accessible area.
- **Building A54** – No specific targets identified; samples will be collected down-gradient and in accessible areas.
- **Building A278** – Sump along south side of building; no other targets identified so sample will be collected down-gradient and in accessible area.
- **Building A228** – Sump along east side of building; no other targets identified so sample will be collected from accessible area.
- **Building A226** – No specific targets identified; samples will be collected on the north and south ends of the former building site.
- **Building A258** – Covered floor drain and former paint booth identified as targets along west side of building.
- **Building A266 Complex** – Concrete staining identified in southern portion of building and subsurface vault identified in northern portion of building; samples will be collected from down-gradient locations due to utility and logistic issues within the buildings.
- **Building A288** – Floor drain in center of the building identified as target; no other targets identified so sample will be collected from accessible area.
- **Building A53** – No specific targets identified; samples will be collected on the north and south ends of the former building site.
- **Building A62** – No specific targets identified; samples will be collected on the north and south ends of the former building site.
- **Building A73** – No specific targets identified; samples will be collected on the north and south ends of the former building site.
- **Building A198** – No specific targets identified; samples will be collected along accessible areas of the shoreline.
- **Building A280** – Trench drains identified inside building; no other targets identified so sample will be collected from accessible area.

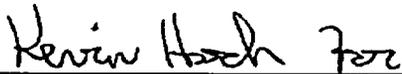
- **Building A190** – No specific targets identified; samples will be collected from down-gradient locations on the north and south ends of the former building site and in areas where no previous samples have been collected.

As shown on Table 1, all soil samples collected will be submitted for volatile organic compounds, semivolatile organic compounds, polychlorinated biphenyls, total petroleum hydrocarbons purgeables and extractables, metals, and explosives analysis. Water samples will be collected from the temporary well screens within 24 hours of installation. Water samples collected will be submitted for volatile organic compounds, semivolatile organic compounds, metals, and explosives analysis. If sufficient volume for these analyses is not available within that 24-hour period, sample collection will be based on the following order of analysis: volatile organic compounds, semivolatile organic compounds, metals, and explosives analysis.

Rationale for Variance: In response to regulatory agency comments on the draft IA F1 RI, additional step-out samples in Investigation Area F1 at Mare Island are required. Results will be reported in the IA F1 RI Report.

QA/QC Approval Signature:

Date of Variance Approval:



10/25/2006

Greg Swanson,
SulTech Program QA Manager

TABLE

TABLE 1: SAMPLING AND ANALYSIS REGISTER FOR ADDITIONAL SUPPLEMENTAL INVESTIGATION SITES

Field Variance Forms to the Sampling and Analysis Plan Additional Sampling, Investigation Area F1, Mare Island, Vallejo, California

Building	Location ID	Sample ID	Sample Type	Matrix	Depth (feet)	Location Information	VOC (8260B)	SVOC (8270C)	PCB (8082)	TPH-p (8015B)	TPH-e (8015B)	Metals (6010B/7000)	Explosives (8330)	
A15	A015-1	A015SS001	SS	Soil	0-0.5	Maintenance Warehouse (Figure 1)	X	X	X	X	X	X	X	
	A015-1	A015GP001	DP	Soil	2-4		X	X	X	X	X	X	X	X
	A015-1	A015GW001	GW	Water	NA		X	X					X	X
	A015-2	A015SS002	SS	Soil	0-0.5		X	X	X	X	X	X	X	X
	A015-2	A015GP002	DP	Soil	2-4		X	X	X	X	X	X	X	X
	A015-2	A015GW002	GW	Water	NA		X	X					X	X
A54	A054-1	A054SS001	SS	Soil	0-0.5	Magazine (Figure 2)	X	X	X	X	X	X	X	
	A054-1	A054GP001	DP	Soil	2-4		X	X	X	X	X	X	X	X
	A054-1	A054GW001	GW	Water	NA		X	X					X	X
	A054-2	A054SS002	SS	Soil	0-0.5		X	X	X	X	X	X	X	X
	A054-2	A054GP002	DP	Soil	2-4		X	X	X	X	X	X	X	X
	A054-2	A054GW002	GW	Water	NA		X	X					X	X
A31	A031-1	A031SS001	SS	Soil	0-0.5	Magazine (Figure 2)	X	X	X	X	X	X	X	
	A031-1	A031GP001	DP	Soil	2-4		X	X	X	X	X	X	X	X
	A031-1	A031GW001	GW	Water	NA		X	X					X	X
	A031-2	A031SS002	SS	Soil	0-0.5		X	X	X	X	X	X	X	X
	A031-2	A031GP002	DP	Soil	2-4		X	X	X	X	X	X	X	X
	A031-2	A031GW002	GW	Water	NA		X	X					X	X
A278	A278-1	A278SS001	SS	Soil	0-0.5	Vacuum System House (Figure 2)	X	X	X	X	X	X	X	
	A278-1	A278GP001	DP	Soil	2-4		X	X	X	X	X	X	X	X
	A278-1	A278GW001	GW	Water	NA		X	X					X	X
	A278-2	A278SS002	SS	Soil	0-0.5		X	X	X	X	X	X	X	X
	A278-2	A278GP002	DP	Soil	2-4		X	X	X	X	X	X	X	X
	A278-2	A278GW002	GW	Water	NA		X	X					X	X

TABLE 1: SAMPLING AND ANALYSIS REGISTER FOR ADDITIONAL SUPPLEMENTAL INVESTIGATION SITES (CONTINUED)

Field Variance Forms to the Sampling and Analysis Plan Additional Sampling, Investigation Area F1, Mare Island, Vallejo, California

Building	Location ID	Sample ID	Sample Type	Matrix	Depth (feet)	Location Information	VOC (8260B)	SVOC (8270C)	PCB (8082)	TPH-p (8015B)	TPH-e (8015B)	Metals (6010B/7000)	Explosives (8330)	
A226	A226-1	A226SS001	SS	Soil	0-0.5	Ordnance Warehouse Building (Demolished) (Figure 3)	X	X	X	X	X	X	X	
	A226-1	A226GP001	DP	Soil	2-4		X	X	X	X	X	X	X	X
	A226-1	A226GW001	GW	Water	NA		X	X					X	X
	A226-2	A226SS002	SS	Soil	0-0.5		X	X	X	X	X	X	X	X
	A226-2	A226GP002	DP	Soil	2-4		X	X	X	X	X	X	X	X
	A226-2	A226GW002	GW	Water	NA		X	X					X	X
A228	A228-1	A228SS001	SS	Soil	0-0.5	Ordnance Handling Division (Figure 3)	X	X	X	X	X	X	X	
	A228-1	A228GP001	DP	Soil	2-4		X	X	X	X	X	X	X	X
	A228-1	A228GW001	GW	Water	NA		X	X					X	X
	A228-2	A228SS002	SS	Soil	0-0.5		X	X	X	X	X	X	X	X
	A228-2	A228GP002	DP	Soil	2-4		X	X	X	X	X	X	X	X
	A228-2	A228GW002	GW	Water	NA		X	X					X	X
A258	A258-1	A258SS001	SS	Soil	0-0.5	Ordnance Warehouse (Figure 4)	X	X	X	X	X	X	X	
	A258-1	A258GP001	DP	Soil	2-4		X	X	X	X	X	X	X	X
	A258-1	A258GW001	GW	Water	NA		X	X					X	X
	A258-2	A258SS002	SS	Soil	0-0.5		X	X	X	X	X	X	X	X
	A258-2	A258GP002	DP	Soil	2-4		X	X	X	X	X	X	X	X
	A258-2	A258GW002	GW	Water	NA		X	X					X	X
A266	A266-1	A266SS001	SS	Soil	0-0.5	Complex – Public Works Shop (Figure 5)	X	X	X	X	X	X	X	
	A266-1	A266GP001	DP	Soil	2-4		X	X	X	X	X	X	X	X
	A266-1	A266GW001	GW	Water	NA		X	X					X	X
	A266-2	A266SS002	SS	Soil	0-0.5		X	X	X	X	X	X	X	X
	A266-2	A266GP002	DP	Soil	2-4		X	X	X	X	X	X	X	X
	A266-2	A266GW002	GW	Water	NA		X	X					X	X
A288	A288-1	A288SS001	SS	Soil	0-0.5	Ordnance Production Operations (Figure 5)	X	X	X	X	X	X	X	
	A288-1	A288GP001	DP	Soil	2-4		X	X	X	X	X	X	X	X
	A288-1	A288GW001	GW	Water	NA		X	X					X	X
	A288-2	A288SS002	SS	Soil	0-0.5		X	X	X	X	X	X	X	X
	A288-2	A288GP002	DP	Soil	2-4		X	X	X	X	X	X	X	X

TABLE 1: SAMPLING AND ANALYSIS REGISTER FOR ADDITIONAL SUPPLEMENTAL INVESTIGATION SITES (CONTINUED)

Field Variance Forms to the Sampling and Analysis Plan Additional Sampling, Investigation Area F1, Mare Island, Vallejo, California

Building	Location ID	Sample ID	Sample Type	Matrix	Depth (feet)	Location Information	VOC (8260B)	SVOC (8270C)	PCB (8082)	TPH-p (8015B)	TPH-e (8015B)	Metals (6010B/7000)	Explosives (8330)
	A288-2	A288GW002	GW	Water	NA		X	X				X	X
A198	A198-1	A198SS001	SS	Soil	0-0.5	Accessible shoreline area – Store House (demolished) (Figure 5)	X	X	X	X	X	X	X
	A198-1	A198GP001	DP	Soil	2-4		X	X	X	X	X	X	X
	A198-2	A198SS002	SS	Soil	0-0.5		X	X	X	X	X	X	X
	A198-2	A198GP002	DP	Soil	2-4		X	X	X	X	X	X	X
A62	A062-1	A062SS001	SS	Soil	0-0.5	Ordnance Production Operations (demolished) (Figure 5)	X	X	X	X	X	X	X
	A062-1	A062GP001	DP	Soil	2-4		X	X	X	X	X	X	X
	A062-1	A062GW001	GW	Water	NA		X	X				X	X
	A062-2	A062SS002	SS	Soil	0-0.5		X	X	X	X	X	X	X
	A062-2	A062GP002	DP	Soil	2-4		X	X	X	X	X	X	X
A53	A053-1	A053SS001	SS	Soil	0-0.5	Ordnance Production Operations (demolished) (Figure 5)	X	X	X	X	X	X	X
	A053-1	A053GP001	DP	Soil	2-4		X	X	X	X	X	X	X
	A053-1	A053GW001	GW	Water	NA		X	X				X	X
	A053-2	A053SS002	SS	Soil	0-0.5		X	X	X	X	X	X	X
	A053-2	A053GP002	DP	Soil	2-4		X	X	X	X	X	X	X
A73	A073-1	A073SS001	SS	Soil	0-0.5	Ordnance Production Operations (demolished) (Figure 5)	X	X	X	X	X	X	X
	A073-1	A073GP001	DP	Soil	2-4		X	X	X	X	X	X	X
	A073-1	A073GW001	GW	Water	NA		X	X				X	X
	A073-2	A073SS002	SS	Soil	0-0.5		X	X	X	X	X	X	X
	A073-2	A073GP002	DP	Soil	2-4		X	X	X	X	X	X	X
A280	A280-1	A280SS001	SS	Soil	0-0.5	Vacuum System House (Figure 6)	X	X	X	X	X	X	X
	A280-1	A280GP001	DP	Soil	2-4		X	X	X	X	X	X	X
	A280-1	A280GW001	GW	Water	NA		X	X				X	X
	A280-2	A280SS002	SS	Soil	0-0.5		X	X	X	X	X	X	X
	A280-2	A280GP002	DP	Soil	2-4		X	X	X	X	X	X	X
	A280-2	A280GW002	GW	Water	NA		X	X			X	X	

TABLE 1: SAMPLING AND ANALYSIS REGISTER FOR ADDITIONAL SUPPLEMENTAL INVESTIGATION SITES (CONTINUED)

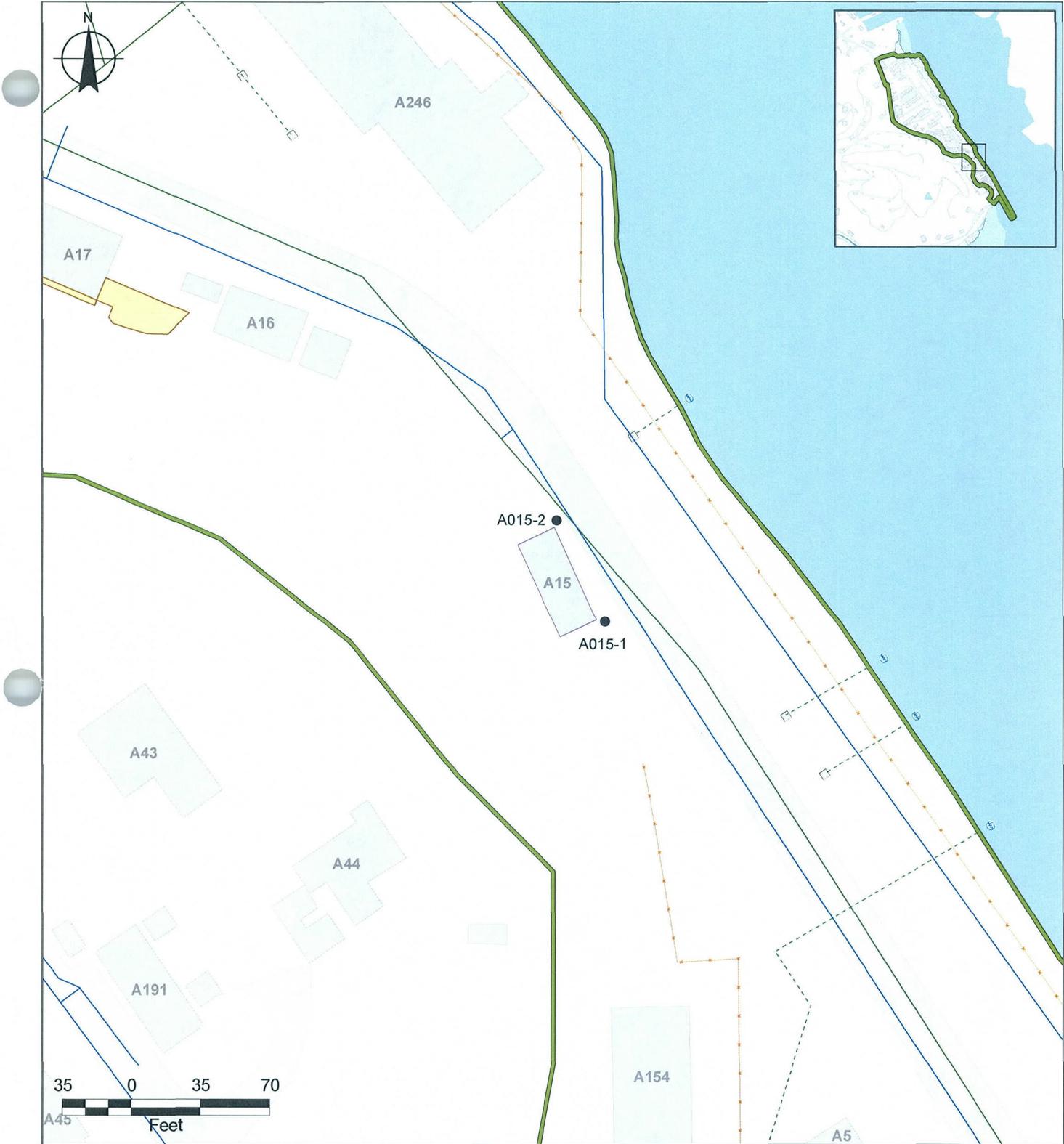
Field Variance Forms to the Sampling and Analysis Plan Additional Sampling, Investigation Area F1, Mare Island, Vallejo, California

Building	Location ID	Sample ID	Sample Type	Matrix	Depth (feet)	Location Information	VOC (8260B)	SVOC (8270C)	PCB (8082)	TPH-p (8015B)	TPH-e (8015B)	Metals (6010B/7000)	Explosives (8330)	
A190	A190-1	A190SS001	SS	Soil	0-0.5	Boiler House (demolished) (Figure 7)	X	X	X	X	X	X	X	
	A190-1	A190GP001	DP	Soil	2-4		X	X	X	X	X	X	X	X
	A190-1	A190GW001	GW	Water	NA		X	X					X	X
	A190-2	A190SS002	SS	Soil	0-0.5		X	X	X	X	X	X	X	X
	A190-2	A190GP002	DP	Soil	2-4		X	X	X	X	X	X	X	X
	A190-2	A190GW002	GW	Water	NA		X	X					X	X
Duplicate		A111GW001	GW	Water	NA	1 Duplicate/Ten Water Samples	X	X				X	X	
Duplicate		A111GW002	GW	Water	NA	1 Duplicate/Ten Water Samples	X	X				X	X	
Day 1 Field Sampling		F1SB001	Source Blank	Water	NA	NA	X	X	X	X	X	X	X	
		F1TB001	Trip Blank	Water	NA	NA	X			X				
		F1ER001	Rinsate	Water	NA	NA	X	X	X	X	X	X	X	
Day 2 Field Sampling		F1TB002	Trip Blank	Water	NA	NA	X			X				
		F1ER002	Rinsate	Water	NA	NA	X	X	X	X	X	X	X	
Day 3 Field Sampling		F1TB003	Trip Blank	Water	NA	NA	X			X				
		F1ER003	Rinsate	Water	NA	NA	X	X	X	X	X	X	X	
Day 4 Field Sampling		F1TB004	Trip Blank	Water	NA	NA	X			X				
		F1ER004	Rinsate	Water	NA	NA	X	X	X	X	X	X	X	
Day 5 Field Sampling		F1TB005	Trip Blank	Water	NA	NA	X			X				
		F1ER005	Rinsate	Water	NA	NA	X	X	X	X	X	X	X	

Notes:

- | | | | |
|-----|---------------------------------|-------|---|
| DP | Direct Push (Geoprobe) | SS | Surface soil sample |
| ID | Identification number | SVOC | Semivolatile organic compounds |
| NA | Not applicable | TPH-e | Total petroleum hydrocarbons extractables |
| PAH | Polycyclic aromatic hydrocarbon | TPH-p | Total petroleum hydrocarbons purgeables |
| PCB | Polychlorinated Biphenyls | VOC | Volatile organic compounds |

FIGURES

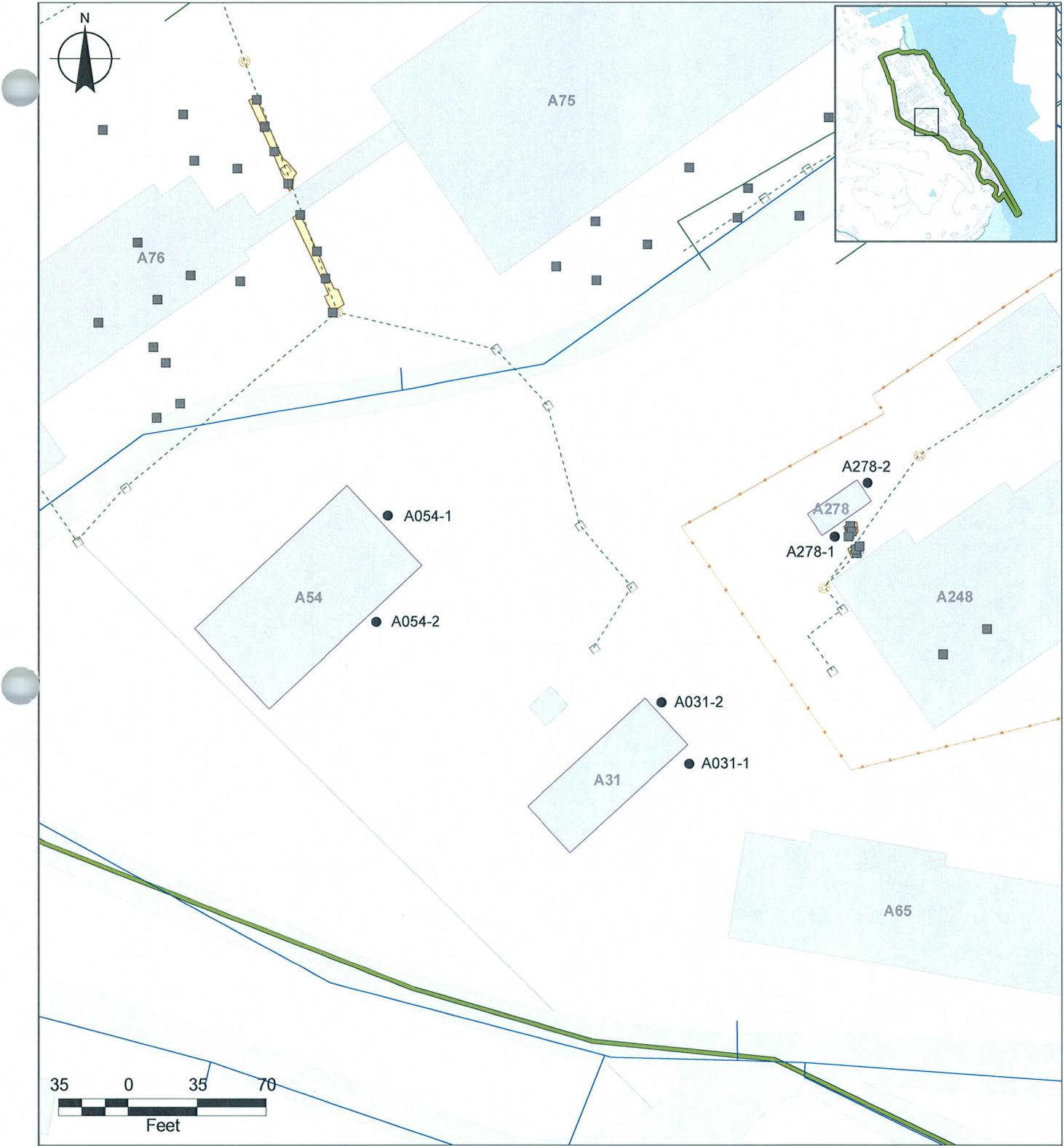


Mare Island, Vallejo, California
 U.S. Navy Southwest Division, NAVFAC, San Diego

FIGURE 1
SAMPLING LOCATIONS
BUILDING A15 VICINITY

F1 RI SAP Field Variance, SI Sampling

- | | | | |
|--|-------------------------|--|--------------------------------|
| | STORM DRAIN MANHOLE | | INVESTIGATION AREA F1 BOUNDARY |
| | STORM WATER OUTFALL | | EXCAVATION AREA |
| | STORM WATER DRAIN | | EXISTING SOIL SAMPLE LOCATION |
| | FENCE | | PROPOSED SOIL SAMPLE LOCATION |
| | WATER PIPELINE | | |
| | SALTWATER PIPELINE | | |
| | STORM DRAIN LINE | | |
| | SANITARY SEWER PIPELINE | | |
| | RAILROAD | | |



- | | | | |
|--|-------------------------|--|--------------------------------|
| | STORM DRAIN MANHOLE | | INVESTIGATION AREA F1 BOUNDARY |
| | STORM WATER OUTFALL | | EXCAVATION AREA |
| | STORM WATER DRAIN | | EXISTING SOIL SAMPLE LOCATION |
| | FENCE | | PROPOSED SOIL SAMPLE LOCATION |
| | WATER PIPELINE | | |
| | SALTWATER PIPELINE | | |
| | STORM DRAIN LINE | | |
| | SANITARY SEWER PIPELINE | | |
| | RAILROAD | | |



Mare Island, Vallejo, California
 U.S. Navy Southwest Division, NAVFAC, San Diego

FIGURE 2
SOIL SAMPLING LOCATIONS
BUILDING A31, A54, AND
A278 VICINITIES
 F1 RI SAP Field Variance, SI Sampling



- | | | | |
|--|-------------------------|--|--------------------------------|
| | STORM DRAIN MANHOLE | | INVESTIGATION AREA F1 BOUNDARY |
| | STORM WATER OUTFALL | | EXCAVATION AREA |
| | STORM WATER DRAIN | | EXISTING SOIL SAMPLE LOCATION |
| | FENCE | | PROPOSED SOIL SAMPLE LOCATION |
| | WATER PIPELINE | | |
| | SALTWATER PIPELINE | | |
| | STORM DRAIN LINE | | |
| | SANITARY SEWER PIPELINE | | |
| | RAILROAD | | |

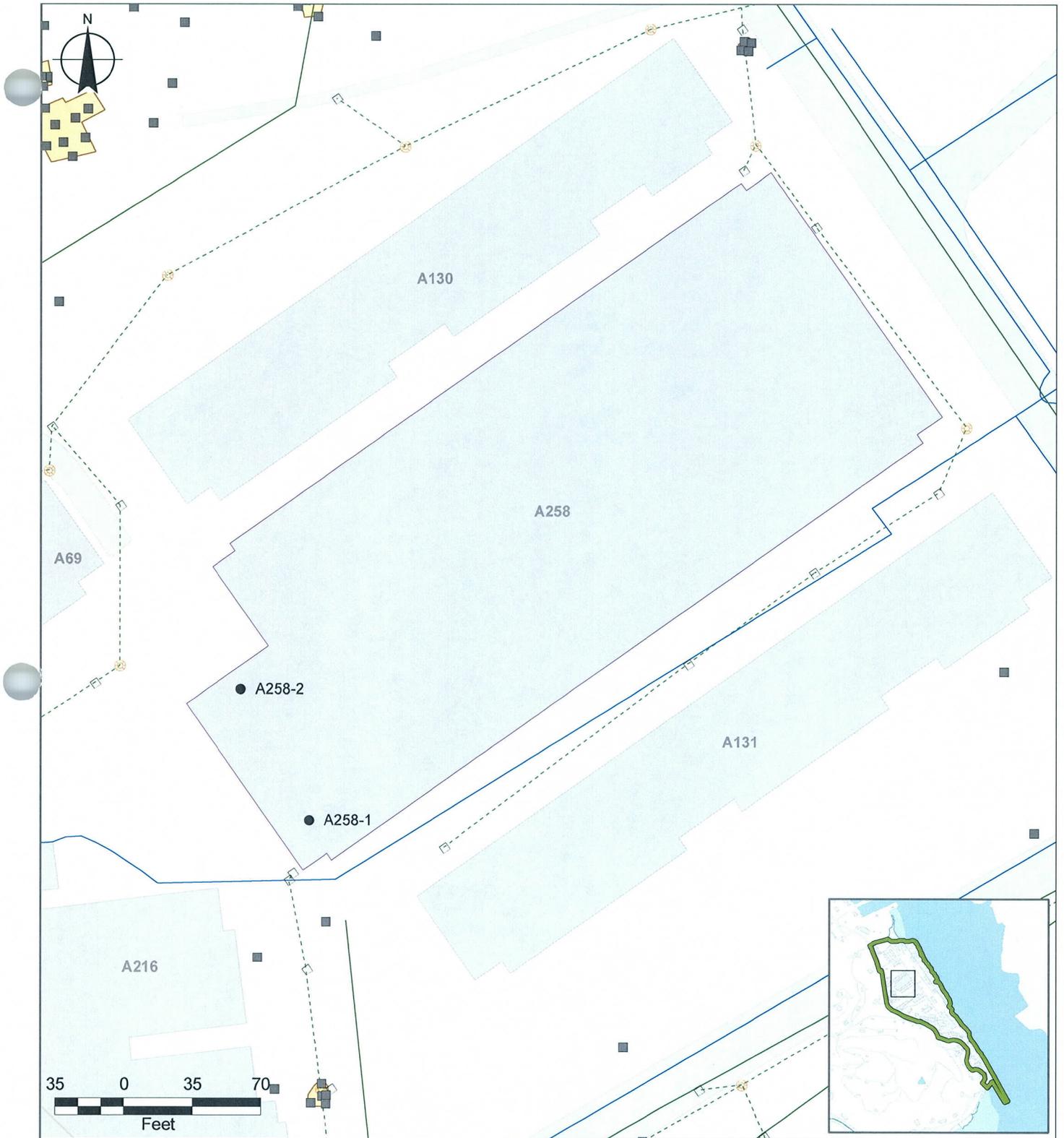


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FIGURE 3
SOIL SAMPLING LOCATIONS
BUILDINGS A226 & A228 VICINITIES

F1 RI SAP Field Variance, SI Sampling

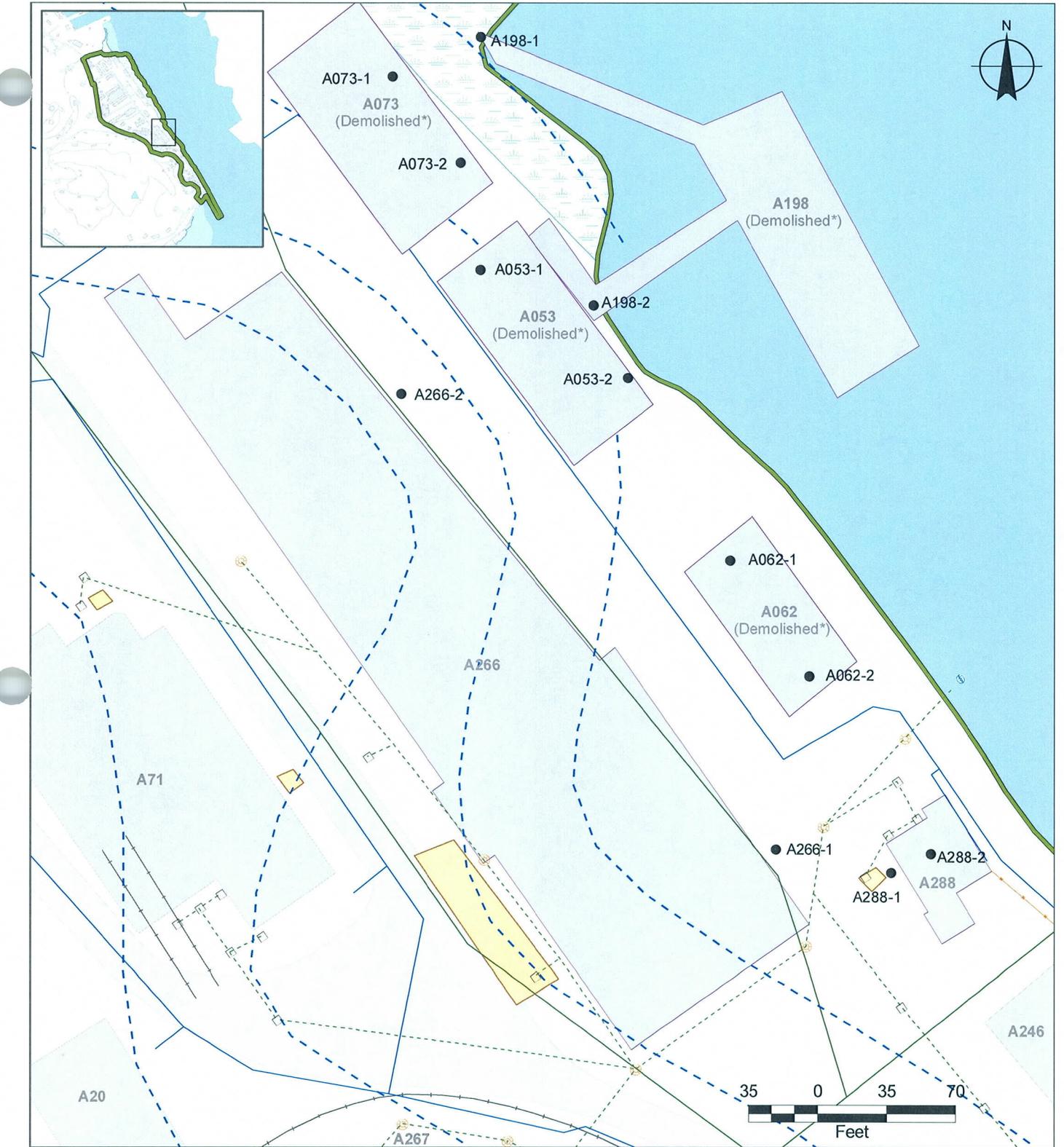
*Demolished building boundary and location are approximate.



Mare Island, Vallejo, California
 U.S. Navy Southwest Division, NAVFAC, San Diego

FIGURE 4
SAMPLING LOCATIONS
BUILDING A258 VICINITY

F1 RI SAP Field Variance, SI Sampling

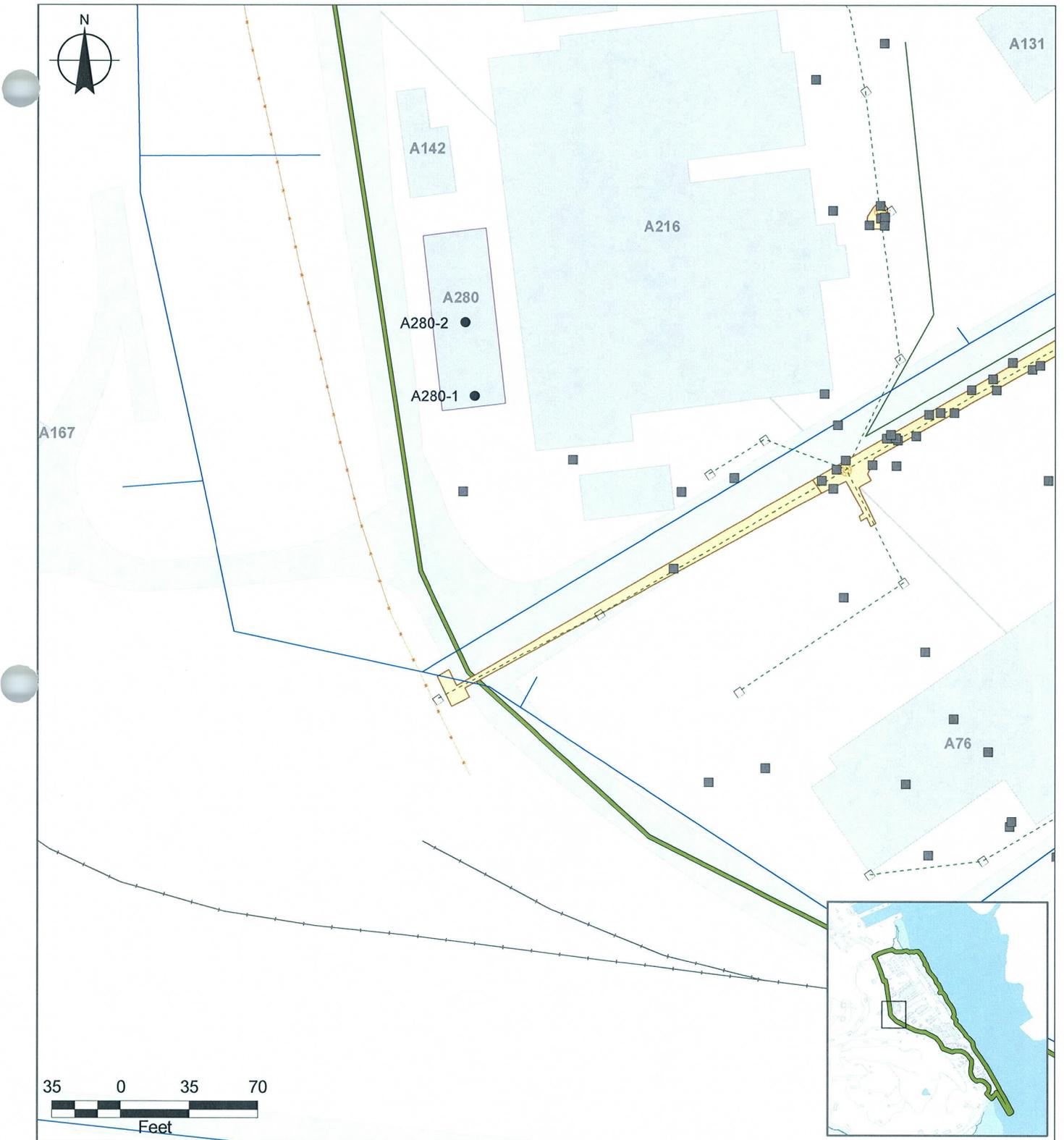


- PROPOSED SOIL SAMPLE LOCATION
 - EXISTING SOIL SAMPLE LOCATION
 - ⊙ STORM DRAIN MANHOLE
 - ⊕ STORM WATER OUTFALL
 - STORM WATER DRAIN
 - FENCE
 - WATER PIPELINE
 - SALTWATER PIPELINE
 - STORM DRAIN LINE
 - SANITARY SEWER PIPELINE
 - RAILROAD
 - INVESTIGATION AREA F1 BOUNDARY
 - EXCAVATION AREA
- *Demolished building boundaries are approximate.



Mare Island, Vallejo, California
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FIGURE 5
SAMPLING LOCATIONS
BUILDINGS A53, A62, A73, A198,
A266, AND A288 VICINITIES
 F1 RI SAP Field Variance, SI Sampling

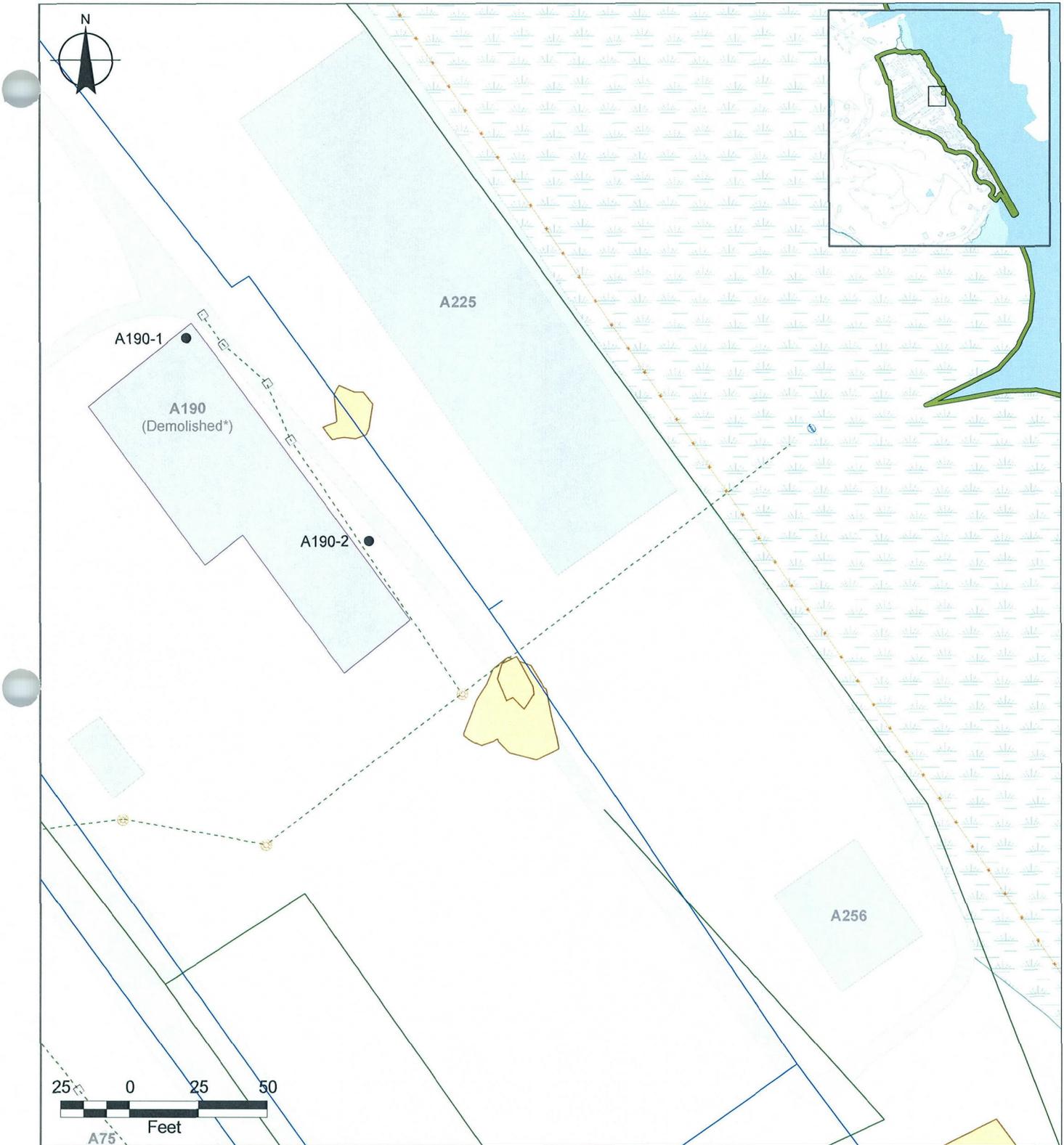


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FIGURE 6
SAMPLING LOCATIONS
BUILDING A280 VICINITY

F1 RI SAP Field Variance, SI Sampling

- | | | | |
|--|-------------------------|--|--------------------------------|
| | STORM DRAIN MANHOLE | | INVESTIGATION AREA F1 BOUNDARY |
| | STORM WATER OUTFALL | | EXCAVATION AREA |
| | STORM WATER DRAIN | | EXISTING SOIL SAMPLE LOCATION |
| | FENCE | | PROPOSED SOIL SAMPLE LOCATION |
| | WATER PIPELINE | | |
| | SALTWATER PIPELINE | | |
| | STORM DRAIN LINE | | |
| | SANITARY SEWER PIPELINE | | |
| | RAILROAD | | |



Mare Island, Vallejo, California
 U.S. Navy Southwest Division, NAVFAC, San Diego

**FIGURE 7
 SAMPLING LOCATIONS
 BUILDING A190 VICINITY**

F1 RI SAP Field Variance, SI Soil Sampling

- | | | | |
|--|-------------------------|--|--------------------------------|
| | STORM DRAIN MANHOLE | | INVESTIGATION AREA F1 BOUNDARY |
| | STORM WATER OUTFALL | | EXCAVATION AREA |
| | STORM WATER DRAIN | | EXISTING SOIL SAMPLE LOCATION |
| | FENCE | | PROPOSED SOIL SAMPLE LOCATION |
| | WATER PIPELINE | | |
| | SALTWATER PIPELINE | | |
| | STORM DRAIN LINE | | |
| | SANITARY SEWER PIPELINE | | |
| | RAILROAD | | |

*Demolished building boundaries and locations are approximate.

ATTACHMENT 1

Revised Draft Final Sampling and Analysis Plan (Field Sampling Plan/Quality Assurance Project Plan) Additional Sampling Investigation Area F1 Mare Island, Vallejo, California (DT.110-05.05)

(Electronic copy to be provided on CD-ROM only)

REVISED DRAFT FINAL
SAMPLING AND ANALYSIS PLAN
(FIELD SAMPLING PLAN/QUALITY ASSURANCE PROJECT PLAN)
ADDITIONAL SAMPLING INVESTIGATION AREA F1

DATED 01 OCTOBER 2006

THIS RECORD IS ENTERED IN THE DATABASE AND FILED
AS

RECORD NO. N00221_000263