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ALAMEDA POINT
SSIC NO. 5090.3

November 1990 86-018-1810

PHASE 2A ANALYTICAL RESULTS FOR SITE 7, BUILDING 547 REMEDIAL INVESTIGATION/FEASIBILITY STUDY NAVAL AIR STATION ALAMEDA ALAMEDA, CALIFORNIA

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Canonie Environmental

Canonie Environmental

Canonie Environmental Services Corp.
1825 South Grant Street
Suite 260
San Mateo, California 94402

Phone: 415-573-8012
FAX: 415-573-5654

November 16, 1990

86-018-1810

Ms. Bella Dizon (Code 1813BD)
Western Division Naval Facilities
Engineering Command
PO Box 727
San Bruno, CA 94066-0727

Phase 2A Analytical Results for Site 7, Building 547
Remedial Investigation/Feasibility Study
Naval Air Station Alameda
Alameda, California

Dear Ms. Dizon:

This report presents the Phase 2A analytical results for Site 7, Building 547, that were obtained as part of the Remedial Investigation/ Feasibility Study at Naval Air Station Alameda. Pertinent information provided with this report include a site plan showing the boring locations, summary tables of the analytical results, a table showing the comparison of action levels for various chemical groups, and certified analytical reports.

The summary tables are prepared as part of the Data Management Plan to provide an efficient method of screening large amounts of analytical data that highlight site-specific areas of potential concern. Certified analytical reports include the raw laboratory data and detection limits for each chemical group analyzed.

If you have any questions regarding these results, please call me at (415) 573-8012.

Very truly yours,

Timothy G. Bodkin, R.G.
Senior Project Scientist

TGB/kw

Enclosures

cc: J. Babcock, Canonie Environmental Services Corp.
R. Duffield, Canonie Environmental Services Corp.

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REVISED
PHASE 1 AND 2A ANALYTICAL RESULTS FOR SITE 7, BUILDING 547 REMEDIAL INVESTIGATION/FEASIBILITY STUDY

DATED 01 JUNE 1992

IS ENTERED IN THE DATABASE AND FILED AT ADMINISTRATIVE RECORD NO. **N00236.000830**

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TABLE 1

SUMMARY TABLE OF ANALYTICAL RESULTS: SOIL
SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)							
Chemical Group/Analyte	MW547-1 2.0 - 2.5	MW547-1 4.5 - 5.0	MW547-1 8.0 - 8.5	MW547-1 11.0 - 11.5	MW547-1 14.0 - 14.5	MW547-2 2.0 - 2.5	MW547-2 5.5 - 6.0	MW547-2 9.5 - 10.0
Volatile Organics								
1,2-Dichloroethane								
2-Butanone (MEK)								
4-Methyl-2-pentanone								
Acetone		51.	18.	17.	48.	14.	20.	
Benzene								
Ethyl Benzene								
Methylene Chloride	7.	10.	9.	9.	10.	8.	9.	9.
Toluene		24.		11.	11.	260.	16.	21.
Trichloroethene								
Xylene (total)								

Notes:
1. Analytical results are presented in micrograms/kilogram (ug/kg).
2. Blank spaces indicate that the analyte was not detected.

TABLE 1

SUMMARY TABLE OF ANALYTICAL RESULTS: SOIL
SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)							
	MW547-2	MW547-2	MW547-3	MW547-3	MW547-3	MW547-3	MW547-3	MW547-4
Chemical Group/Analyte	12.5 - 13.0	14.0 - 14.5	3.5 - 4.0	5.0 - 5.5	8.0 - 8.5	10.5 - 11.0	14.0 - 14.5	5.0 - 5.5
Volatile Organics								
1,2-Dichloroethane								
2-Butanone (MEK)								
4-Methyl-2-pentanone			72000.					
Acetone		20.		19.	41.			21.
Benzene				87.	82.			64.
Ethyl Benzene			52000.	190.	71.			130.
Methylene Chloride	8.		54000	24.	31.	59.	26.	
Toluene	9.		28000.	250.	9.	7.	14.	
Trichloroethene								
Xylene (total)			520000.	620.	34.			6.

Notes:
1. Analytical results are presented in micrograms/kilogram (ug/kg).
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TABLE 1

SUMMARY TABLE OF ANALYTICAL RESULTS: SOIL
SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)							
	MW547-4	MW547-5	MW547-5	MW547-5	MW547-5	B547-6	B547-6	B547-6
Chemical Group/Analyte	10.5-11.0	2.0-2.5	5.0-5.5	8.0-8.5	11.0-11.5	4.5-5.0	6.0-6.5	9.0-9.5
Volatile Organics								
1,2-Dichloroethane								
2-Butanone (MEK)								
4-Methyl-2-pentanone								
Acetone				12.		21.	27.	
Benzene								
Ethyl Benzene								
Methylene Chloride						20.	22.	21.
Toluene	14.	140.	19.	10.	10.	7.		18.
Trichloroethene								
Xylene (total)						17.		

Notes:
1. Analytical results are presented in micrograms/kilogram (ug/kg).
2. Blank spaces indicate that the analyte was not detected.

TABLE 1

SUMMARY TABLE OF ANALYTICAL RESULTS: SOIL
SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)							
Chemical Group/Analyte	B547 6 11.0 - 11.5	B547 6 14.0 - 14.5	B547 7 2.0 - 2.5	B547 7 5.0 - 5.5	B547 7 8.0 - 8.5	B547 7 11.0 - 11.5	B547 7 14.0 - 14.5	B547 8 3.5 - 4.0
Volatile Organics								
1,2-Dichloroethane								
2-Butanone (MEK)					12.	13.		
4-Methyl-2-pentanone								
Acetone					18.	28.	34.	
Benzene			110.	1300.	13.	730.	100.	
Ethyl Benzene			570.	14000.		100.	32.	1000.
Methylene Chloride	8.	17.			6.		7.	920.
Toluene	13.	6.	1600.	23000.	18.	390.		1500.
Trichloroethene								
Xylene (total)		8.	4500.	97000.	23.	390.		6800.

Notes:
1. Analytical results are presented in micrograms/kilogram (ug/kg).
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TABLE 1

SUMMARY TABLE OF ANALYTICAL RESULTS: SOIL
SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)							
	B547-8	B547-8	B547-8	B547-8	B547-9	B547-9	B547-9	B547-9
Chemical Group/Analyte	5.0-5.5	8.0-8.5	11.0-11.5	12.5-13.0	3.5-4.0	5.0-5.5	8.0-8.5	11.0-11.5
Volatile Organics								
1,2-Dichloroethane			14.	7.				
2-Butanone (MEK)								
4-Methyl-2-pentanone								
Acetone		690.				18.		
Benzene		430.						
Ethyl Benzene		160.			42.			
Methylene Chloride		84.	23.	14.	19.	26.	24.	20.
Toluene	39000.	720.	64.		76.	14.	47.	26.
Trichloroethene			11.					
Xylene (total)	230000.	890.	7.		240.			

Notes:
1. Analytical results are presented in micrograms/kilogram (ug/kg).
2. Blank spaces indicate that the analyte was not detected.

TABLE 1

SUMMARY TABLE OF ANALYTICAL RESULTS: SOIL
SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)					
	B547-9	B547-10	B547-10	B547-10	B547-10	B547-10
Chemical Group/Analyte	14.0 - 14.5	2.0 - 2.5	5.0 - 5.5	8.0 - 8.5	11.0 - 11.5	14.0 - 14.5
Volatile Organics						
1,2-Dichloroethane						
2-Butanone (MEK)						
4-Methyl-2-pentanone						
Acetone			52.	13.		
Benzene						
Ethyl Benzene						
Methylene Chloride	30.	22.	25.	18.	24.	19.
Toluene	21.	38.	52.		10.	21.
Trichloroethene						
Xylene (total)						

Notes:
1. Analytical results are presented in micrograms/kilogram (ug/kg).
2. Blank spaces indicate that the analyte was not detected.

TABLE 1

SUMMARY TABLE OF ANALYTICAL RESULTS: SOIL
SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)							
Chemical Group/Analyte	MW547-2 5.5 - 6.0	MW547-2 9.5 - 10.0	MW547-2 12.5 - 13.0	MW547-2 14.0 - 14.5	MW547-3 3.5 - 4.0	MW547-3 5.0 - 5.5	MW547-3 10.5 - 11.0	MW547-3 11.5 - 12.0 R
Semivolatile Organics								
2-Methylnaphthalene					16000.			
Di-n-butylphthalate						540.	650.	480.
Naphthalene					16000.			
bis(2-Ethylhexyl)phthalate	670.	1600.	3600.	1400.				
Ethylene dibromide								NT

Notes:
1. Analytical results are presented in micrograms/kilogram (ug/kg).
2. Blank spaces indicate that the analyte was not detected.
3. NT indicates that the analyte was not tested.

TABLE 1

SUMMARY TABLE OF ANALYTICAL RESULTS: SOIL
SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)							
Chemical Group/Analyte	MW547-3 14.0 - 14.5	MW547-5 5.0 - 5.5	MW547-5 14.0 - 14.5	B547-6 6.0 - 6.5	B547-6 9.0 - 9.5	B547-6 11.0 - 11.5	B547-6 14.0 - 14.5	B547-7 2.0 - 2.5
Semivolatile Organics								
2-Methylnaphthalene								4100.
Di-n-butylphthalate	3000.			400.	590.	3600.	420.	
Naphthalene								2900.
bis(2-Ethylhexyl)phthalate		1300.	650.					
Ethylene dibromide								

Notes:
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TABLE 1

SUMMARY TABLE OF ANALYTICAL RESULTS: SOIL
SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)							
Chemical Group/Analyte	B547-7 5.0 - 5.5	B547-7 8.0 - 8.5	B547-7 11.0 - 11.5	B547-8 3.5 - 4.0	B547-8 5.0 - 5.5	B547-8 8.0 - 8.5	B547-8 11.0 - 11.5	B547-8 12.5 - 13.0
Semivolatile Organics								
2-Methylnaphthalene	9400.			4400.	1500.			
Di-n-butylphthalate					2500.	3200.	6300.	1400.
Naphthalene	9800.			2000.				
bis(2-Ethylhexyl)phthalate		450.	490.					
Ethylene dibromide				2.	2.			

Notes:
1. Analytical results are presented in micrograms/kilogram (ug/kg).
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TABLE 1

SUMMARY TABLE OF ANALYTICAL RESULTS: SOIL
SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)				
Chemical Group/Analyte	B547-9 5.0 - 5.5	B547-9 14.0 - 14.5	B547-10 2.0 - 2.5	B547-10 5.0 - 5.5	B547-10 14.0 - 14.5
Semivolatile Organics					
2-Methylnaphthalene					
Di-n-butylphthalate	1000.	410.	390.	860.	440.
Naphthalene					
bis(2-Ethylhexyl)phthalate					
Ethylene dibromide					

Notes:
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TABLE 1

SUMMARY TABLE OF ANALYTICAL RESULTS: SOIL
SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)							
Chemical Group/Analyte	MW547-1 0.5 - 1.0	MW547-2 0.5 - 1.0	MW547-2 2.5 - 3.0	MW547-3 1.0 - 1.5	MW547-3 4.0 - 4.5	MW547-3 5.5 - 6.0	MW547-5 0.5 - 1.0	MW547-5 2.5 - 3.0
Pesticides								
4,4'-DDD				2.				
4,4'-DDE				12.				
4,4'-DDT								
Methoxychlor						20.		
Total Petroleum Hydrocarbons	308.	30.	4.	5.	45.	119.	36.	4.

Notes:
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TABLE 1

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SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)							
Chemical Group/Analyte	MW547-5 5.5 - 6.0	MW547-5 8.5 - 9.0	B547-6 2.5 - 3.0	B547-6 3.5 - 4.0	B547-7 0.5 - 1.0	B547-7 2.5 - 3.0	B547-7 5.5 - 6.0	B547-8 1.0 - 1.5
Pesticides								
4,4'-DDD			NT	NT				
4,4'-DDE			NT	NT				6.
4,4'-DDT			NT	NT				
Methoxychlor			NT	NT				
Total Petroleum Hydrocarbons	100.	7.	99.	172.	5.	31.	10800.	

Notes:
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SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)					
Chemical Group/Analyte	B547-8 4.0 - 4.5	B547-8 5.5 - 6.0	B547-9 1.0 - 1.5	B547-10 0.5 - 1.0	B547-10 2.5 - 3.0	B547-10 5.5 - 6.0
Pesticides						
4,4'-DDD						
4,4' DDE				15.		
4,4'-DDT				10.		
Methoxychlor						11.
Total Petroleum Hydrocarbons	199.	429.	255.	5.	3.	24.

Notes:
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SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)							
Chemical Group/Analyte	MW547-1 0.5 - 1.0	MW547-1 2.5 - 3.0	MW547-1 5.0 - 5.5	MW547-1 8.5 - 9.0	MW547-1 11.5 - 12.0	MW547-1 14.5 - 15.0	MW547-2 0.5 - 1.0	MW547-2 2.5 - 3.0
Metals								
Aluminum	26800.0	3960.0	5160.0	15800.0	7530.0	8030.0	4280.0	5160.0
Arsenic				3.5	3.0			
Barium	47.3		57.3	107.0	77.1	58.3	49.0	106.0
Cadmium								
Calcium	15500.0	3480.0	1360.0	2490.0	1880.0	2180.0	2120.0	2930.0
Chromium	11.4	25.6	28.6	71.8	34.4	43.9	29.1	26.6
Cobalt	10.4	3.7	4.7	9.1	7.3	6.1	4.1	4.8
Copper	86.2	5.8	7.1	40.8	12.6	14.7	22.0	21.0
Iron	21400.0	6410.0	8310.0	19400.0	12300.0	12400.0	760.0	8900.0
Lead	13.1			6.5	6.1		7.4	27.3
Magnesium	6800.0	1870.0	1510.0	3860.0	3320.0	3070.0	1910.0	1800.0
Manganese	352.0	84.2	148.0	177.0	186.0	150.0	156.0	268.0
Nickel	11.6	21.1	18.6	60.0	45.9	40.6	23.2	19.7
Potassium	1090.0	497.0	736.0	1120.0	629.0	808.0	651.0	829.0
Selenium								
Silver								
Sodium	1810.0	139.0	348.0	1220.0	543.0	136.0	147.0	240.0
Titanium	466.0	368.0	335.0	567.0	276.0	473.0	308.0	280.0
Vanadium	62.3	15.9	19.1	35.1	20.0	24.6	17.5	18.3
Zinc	60.2	18.1	19.2	56.9	29.3	36.9	27.5	61.4

Notes:
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2. Blank spaces indicate that the analyte was not detected.

TABLE 1

SUMMARY TABLE OF ANALYTICAL RESULTS: SOIL
SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)							
Chemical Group/Analyte	MW547-2 6.0 - 6.5	MW547-2 6.5 - 7.0	MW547-2 10.0 - 10.5	MW547-2 13.0 - 13.5	MW547-2 14.5 - 15.0	MW547-3 1.0 - 1.5	MW547-3 4.0 - 4.5	MW547-3 5.5 - 6.0
Metals								
Aluminum	6330.0	15000.0	10800.0	8120.0	5610.0	7500.0	3430.0	14000.0
Arsenic		2.9	3.2	5.3				23.0
Barium	37.7	68.9	90.4	66.6	58.7	120.0	24.0	110.0
Cadmium								
Calcium	1860.0	1780.0	1750.0	1890.0	1460.0	2600.0	1600.0	3400.0
Chromium	41.6	56.1	54.7	38.4	34.6	28.0	24.0	67.0
Cobalt	7.1	8.2	6.0	6.6	6.5	9.2		17.0
Copper	8.9	18.6	29.2	10.2	9.2	39.0	7.5	40.0
Iron	9880.0	19500.0	17100.0	13800.0	11000.0	14100.0	6550.0	29600.0
Lead		8.7				48.0	7.0	30.0
Magnesium	2290.0	3850.0	42400.0	3180.0	2880.0	3100.0	1900.0	7100.0
Manganese	137.0	173.0	145.0	158.0	156.0	230.0	90.0	440.0
Nickel	27.4	54.2	54.4	45.9	40.4	31.0	24.0	89.0
Potassium	895.0	1460.0	607.0	743.0	538.0	1400.0		2300.0
Selenium			5.7					
Silver								
Sodium	241.0	919.0	830.0	415.0	278.0			1400.0
Titanium	377.0	704.0	407.0	415.0	273.0	350.0	330.0	590.0
Vanadium	22.4	37.7	32.8	26.0	20.2	25.0	15.0	57.0
Zinc	20.9	41.4	39.3	29.8	27.0	78.0	18.0	84.0

Notes:
1. Analytical results are presented in milligrams/kilogram (mg/kg).
2. Blank spaces indicate that the analyte was not detected.

TABLE 1

SUMMARY TABLE OF ANALYTICAL RESULTS: SOIL
SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)							
Chemical Group/Analyte	MW547-3 8.5 - 9.0	MW547-3 11.0 - 11.5	MW547-3 14.5 - 15.0	MW547-4 0.5 - 1.0	MW547-4 2.5 - 3.0	MW547-4 5.5 - 6.0	MW547-4 8.5 - 9.0	MW547-4 11.0 - 11.5
Metals								
Aluminum	4330.0	9720.0	10100.0	4520.0	3120.0	4500.0	11000.0	8440.0
Arsenic	14.0						4.1	3.1
Barium	200.0	72.0	83.0	58.4	25.2	66.7	56.1	63.5
Cadmium								
Calcium	1600.0	1400.0	1700.0	3500.0	1840.0	1790.0	1740.0	15.3
Chromium	28.0	38.0	46.0	27.9	26.9	27.2	51.7	36.2
Cobalt	9.8	7.3		4.3	4.1	4.6	8.1	5.7
Copper	13.0	12.0	13.0	16.3	6.2	8.2	10.1	10.0
Iron	20800.0	15000.0	8660.0	7100.0	5830.0	8260.0	14900.0	13600.0
Lead						8.1		
Magnesium	1800.0	3400.0	2600.0	2050.0	1680.0	1650.0	3630.0	3000.0
Manganese	734.0	180.0	100.0	93.4	72.4	185.0	188.0	120.0
Nickel	32.0	54.0	40.0	21.5	20.2	21.7	50.8	46.4
Potassium	750.0	610.0		601.0	521.0	801.0	924.0	774.0
Selenium								
Silver								
Sodium		610.0	840.0	182.0	112.0	241.0	950.0	1080.0
Titanium	260.0	330.0	320.0	372.0	264.0	258.0	304.0	325.0
Vanadium	43.0	28.0	17.0	17.3	13.9	16.3	28.6	23.1
Zinc	21.0	26.0	27.0	25.8	18.0	30.1	30.9	29.5

Notes:
1. Analytical results are presented in milligrams/kilogram (mg/kg).
2. Blank spaces indicate that the analyte was not detected.

.BLE 1

SUMMARY TABLE OF ANALYTICAL RESULTS: SOIL
SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)							
Chemical Group/Analyte	MW547-4 14.5 - 15.0	MW547-5 0.5 - 1.0	MW547-5 2.5 - 3.0	MW547-5 5.5 - 6.0	MW547-5 8.5 - 9.0	MW547-5 11.5 - 12.0	MW547-5 12.0 - 12.5	MW547-5 14.5 - 15.0
Metals								
Aluminum	8670.0	6310.0	3900.0	8360.0	4080.0	10400.0	15000.0	9550.0
Arsenic	4.1	4.9	2.9	5.6		3.6	3.8	3.0
Barium	64.7	81.0	33.7	58.7	58.7	66.2	83.7	64.8
Cadmium		1.0						
Calcium	2230.0	3350.0	2110.0	3440.0	1660.0	1810.0	2480.0	2000.0
Chromium	41.9	50.8	26.9	56.9	22.9	42.8	58.5	42.9
Cobalt	6.9	6.6	3.6	7.3	4.4	6.8	7.8	6.2
Copper	9.9	33.8	9.5	14.7	7.7	15.3	17.1	24.1
Iron	13200.0	9640.0	6930.0	14100.0	7750.0	14800.0	18800.0	14300.0
Lead		9890.0		15.8			8.3	6.7
Magnesium	3060.0	2220.0	1900.0	3690.0	1770.0	3530.0	4420.0	3350.0
Manganese	168.0	210.0	95.2	158.0	152.0	155.0	197.0	142.0
Nickel	44.1	32.6	22.3	44.3	20.1	53.0	64.9	50.9
Potassium	850.0	1250.0	622.0	1360.0	533.0	892.0	1090.0	856.0
Selenium								
Silver		1.2						
Sodium	821.0	209.0	142.0	296.0	269.0	831.0	1110.0	855.0
Titanium	477.0	346.0	330.0	616.0	183.0	395.0	580.0	413.0
Vanadium	24.6	21.2	16.4	29.6	14.5	26.4	32.3	26.3
Zinc	30.5	151.0	27.7	47.3	22.5	36.4	43.0	35.5

Notes:
1. Analytical results are presented in milligrams/kilogram (mg/kg).
2. Blank spaces indicate that the analyte was not detected.

TABLE 1

SUMMARY TABLE OF ANALYTICAL RESULTS: SOIL
SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)							
Chemical Group/Analyte	B547-6 2.0 - 2.5	B547-6 5.0 - 5.5	B547-6 6.5 - 7.0	B547-6 9.5 - 10.0	B547-6 11.5 - 12.0	B547-6 14.5 - 15.0	B547-7 0.5 - 1.0	B547-7 2.5 - 3.0
Metals								
Aluminum	6810.0	6470.0	5060.0	10500.0	15100.0	9250.0	7870.0	3970.0
Arsenic				15.0	16.0	17.0	2.7	
Barium	46.0	51.0	33.0	64.0	87.0	66.0	69.4	26.5
Cadmium								
Calcium	3700.0	1800.0	1700.0	2000.0	2200.0	2000.0	3100.0	574.0
Chromium	27.0	30.0	29.0	38.0	62.0	41.0	34.0	28.1
Cobalt				6.5	7.8	6.3	5.9	3.9
Copper	23.0	6.9	6.1	11.0	11.0	9.6	22.2	14.6
Iron	10900.0	8760.0	8370.0	14900.0	16600.0	14000.0	11800.0	6830.0
Lead							15.3	8.3
Magnesium	3500.0	1700.0	1700.0	3000.0	3700.0	2900.0	2960.0	1920.0
Manganese	160.0	160.0	110.0	220.0	170.0	180.0	166.0	84.7
Nickel	24.0	21.0	21.0	46.0	57.0	43.0	29.3	22.4
Potassium	790.0	820.0	650.0	1000.0	860.0	860.0	1370.0	647.0
Selenium								
Silver								
Sodium				730.0	810.0		268.0	217.0
Titanium	516.0	440.0	340.0	556.0	646.0	540.0	473.0	387.0
Vanadium	29.0	21.0	20.0	30.0	33.0	29.0	23.1	16.9
Zinc	25.0	17.0	14.0	26.0	30.0	25.0	46.7	22.3

Notes:
1. Analytical results are presented in milligrams/kilogram (mg/kg).
2. Blank spaces indicate that the analyte was not detected.

TABLE 1

SUMMARY TABLE OF ANALYTICAL RESULTS: SOIL
SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)							
Chemical Group/Analyte	B547-7 5.5 - 6.0	B547-7 8.5 - 9.0	B547-7 9.0 - 9.5	B547-7 11.5 - 12.0	B547-7 14.5 - 15.0	B547-8 1.0 - 1.5	B547-8 4.0 - 4.5	B547-8 5.5 - 6.0
Metals								
Aluminum	3280.0	11800.0	14800.0	9170.0	8590.0	5650.0	6220.0	8460.0
Arsenic		3.0	3.5	3.0				
Barium	27.0	68.8	82.2	91.0	72.5	56.0	29.0	48.0
Cadmium								
Calcium	1920.0	1840.0	2300.0	2200.0	2310.0	3700.0	3200.0	3500.0
Chromium	24.9	46.7	67.5	37.1	41.1	41.0	33.0	43.0
Cobalt	4.1	10.0	9.1	8.2	7.2			6.9
Copper	7.1	17.3	12.7	16.9	11.4	18.0	5.6	10.0
Iron	6330.0	17000.0	18200.0	14400.0	13600.0	9720.0	8790.0	13600.0
Lead	8.5	8.1	7.9			25.0		
Magnesium	1880.0	3440.0	4180.0	4030.0	3520.0	2100.0	2300.0	3800.0
Manganese	73.8	181.1	136.0	157.0	188.0	150.0	100.0	130.0
Nickel	22.1	54.8	53.1	54.7	49.6	27.0	27.0	45.0
Potassium	614.0	1320.0	1510.0	693.0	1050.0	660.0	810.0	1400.0
Selenium								
Silver								
Sodium	135.0	174.0	211.0	303.0	270.0			
Titanium	310.0	403.0	624.0	394.0	447.0	440.0	590.0	660.0
Vanadium	15.4	34.5	33.8	26.8	24.1	23.0	24.0	29.0
Zinc	19.9	32.5	37.0	3880.0	33.9	49.0	18.0	30.0

Notes:
1. Analytical results are presented in milligrams/kilogram (mg/kg).
2. Blank spaces indicate that the analyte was not detected.

TABLE 1

SUMMARY TABLE OF ANALYTICAL RESULTS: SOIL
SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)							
Chemical Group/Analyte	B547-8 8.5 - 9.0	B547-8 11.5 - 12.0	B547-8 13.0 - 13.5	B547-9 1.0 - 1.5	B547-9 4.0 - 4.5	B547-9 5.5 - 6.0	B547-9 8.5 - 9.0	B547-9 11.5 - 12.0
Metals								
Aluminum	6270.0	11100.0	10200.0	3700.0	6920.0	6830.0	15100.0	15000.0
Arsenic							17.0	17.0
Barium	43.0	63.0	72.0	48.0	65.0	46.0	110.0	91.0
Cadmium								
Calcium	1700.0	2100.0	2200.0	2500.0	2100.0	1700.0	2600.0	2200.0
Chromium	29.0	36.0	39.0	21.0	30.0	28.0	52.0	55.0
Cobalt		6.7	7.4				6.8	
Copper	7.5	8.8	11.0	14.0	8.9	12.0	13.0	11.0
Iron	9050.0	15000.0	16300.0	7630.0	9130.0	9570.0	19600.0	16900.0
Lead				9.8			7.4	6.7
Magnesium	2000.0	2900.0	3300.0	1800.0	1600.0	1700.0	4100.0	3800.0
Manganese	130.0	160.0	240.0	140.0	99.0	220.0	150.0	130.0
Nickel	25.0	43.0	54.0	22.0	23.0	22.0	62.0	61.0
Potassium	890.0	1400.0	1200.0		970.0	800.0	800.0	900.0
Selenium								
Silver								
Sodium		820.0	850.0				880.0	
Titanium	400.0	529.0	550.0	300.0	450.0	430.0	600.0	628.0
Vanadium	20.0	29.0	30.0	16.0	23.0	24.0	37.0	31.0
Zinc	17.0	25.0	34.0	29.0	20.0	20.0	34.0	29.0

Notes:
1. Analytical results are presented in milligrams/kilogram (mg/kg).
2. Blank spaces indicate that the analyte was not detected.

TABLE 1

SUMMARY TABLE OF ANALYTICAL RESULTS: SOIL
SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)						
Chemical Group/Analyte	B547-9 14.5 - 15.0	B547-10 0.5 - 1.0	B547-10 2.5 - 3.0	B547-10 5.5 - 6.0	B547-10 8.5 - 9.0	B547-10 11.5 - 12.0	B547-10 14.5 - 15.0
Metals							
Aluminum	8200.0	14000.0	4980.0	7490.0	8190.0	16000.0	12800.0
Arsenic	16.0	18.0			12.0	23.0	21.0
Barium	60.0	140.0	49.0	120.0	63.0	77.0	70.0
Cadmium							
Calcium	2300.0	4600.0	2500.0	5200.0	3000.0	2800.0	2500.0
Chromium	37.0	38.0	25.0	30.0	35.0	56.0	52.0
Cobalt		9.1				9.3	7.3
Copper	13.0	41.0	8.3	28.0	10.0	14.0	16.0
Iron	12700.0	20500.0	7850.0	10700.0	12100.0	19400.0	17800.0
Lead		19.0		41.0		7.4	
Magnesium	2800.0	4700.0	1700.0	2400.0	2600.0	4500.0	3400.0
Manganese	160.0	220.0	110.0	300.0	200.0	190.0	180.0
Nickel	40.0	47.0	23.0	27.0	35.0	70.0	53.0
Potassium	820.0	2000.0	690.0	1300.0	1000.0	1400.0	1200.0
Selenium							
Silver							
Sodium							
Titanium	530.0	500.0	410.0	390.0	490.0	696.0	600.0
Vanadium	26.0	39.0	18.0	22.0	21.0	42.0	34.0
Zinc	25.0	84.0	20.0	67.0	23.0	33.0	30.0

Notes:
1. Analytical results are presented in milligrams/kilogram (mg/kg).
2. Blank spaces indicate that the analyte was not detected.

TABLE 1

SUMMARY TABLE OF ANALYTICAL RESULTS: SOIL
SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY
OTHER ANALYTICAL TESTS

BORING LOCATION/DEPTH	Total Kjeldahl Nitrogen (mg/kg)	Chloride (mg/kg)	Sulfate (mg/kg)	pH	Ash (%)
MW547-1 1.0 - 1.5	56.0	5.7	9.0		99.4
MW547-1 2.5 - 3.0				9.1	
MW547-2 1.5 - 2.0	174.0	10.5	38.0		98.9
MW547-2 2.5 - 3.0				7.2	
MW547-3 2.0 - 2.5	118.0	9.9	7.4		84.9
MW547-3 4.0 - 4.5				8.3	
MW547-4 1.0 - 1.5	84.0	6.0	8.4		99.4
MW547-4 2.5 - 3.0				8.9	
MW547-5 1.0 - 1.5	252.0	25.0	9.7		98.9
MW547-5 2.5 - 3.0				8.4	
B547-6 2.5 - 3.0	95.2	10.4	10.2	8.4	99.2
B547-6 3.5 - 4.0	168.0	14.0	32.2	8.7	98.0
B547-7 1.0 - 1.5	258.0	49.8	27.1		98.7
B547-7 2.5 - 3.0				9.2	
B547-8 2.0 - 2.5	101.0	9.8	8.7		99.2
B547-8 4.0 - 4.5				8.1	
B547-9 2.5 - 3.0	72.8	12.2	5.8		98.6
B547-9 4.0 - 4.5				7.5	
B547-10 1.0 - 1.5	554.0	17.4	53.7		98.1
B547-10 2.5 - 3.0				8.0	

Notes:
1. Analytical results are presented in units as shown.
2. Boring depths are presented in feet.

TABLE 1

SUMMARY TABLE OF ANALYTICAL RESULTS: SOIL
SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY
OTHER ANALYTICAL TESTS

BORING LOCATION/DEPTH	Exchangeable Ammonium-N (mg/kg)	Nitrate as N (mg/kg)	TOC (mg/kg)	Total Phosphorus (mg/kg)
MW547-1 1.0 - 1.5	ND	ND	243.	443.
MW547-1 2.5 - 3.0				
MW547-2 1.5 - 2.0	ND	ND	2000.	1090.
MW547-2 2.5 - 3.0				
MW547-3 2.0 - 2.5	ND	ND	224.	359.
MW547-3 4.0 - 4.5				
MW547-4 1.0 - 1.5	ND	ND	292.	306.
MW547-4 2.5 - 3.0				
MW547-5 1.0 - 1.5	ND	ND	682.	411.
MW547-5 2.5 - 3.0				
B547-6 2.5 - 3.0	33.6	2.2	112.	280.
B547-6 3.5 - 4.0	ND	ND	168.	524.
B547-7 1.0 - 1.5	ND	ND	1610.	368.
B547-7 2.5 - 3.0				
B547-8 2.0 - 2.5	ND	ND	ND	272.
B547-8 4.0 - 4.5				
B547-9 2.5 - 3.0	ND	ND	168.	222.
B547-9 4.0 - 4.5				
B547-10 1.0 - 1.5	ND	ND	5270.	666.
B547-10 2.5 - 3.0				

Notes:
1. Analytical results are presented in units as shown.
2. Boring depths are presented in feet.

TABLE 2

SUMMARY TABLE OF ANALYTICAL RESULTS: WATER
SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

Chemical Group/Analyte	Units	Well Number MW547-1	MW547-2	MW547-3	MW547-4	MW547-5
Volatile Organics						
Benzene	ug/l			900.	550.	530.
Ethylbenzene	ug/l			1100.	1600.	1800.
Methylene Chloride	ug/l	17.		170.	190.	
Xylenes (total)	ug/l			110.		
Semivolatile Organics						
2,4-Dimethylphenol	ug/l				39.	
Naphthalene	ug/l			56.	53.	
Phenol	ug/l			13.		
Total Petroleum Hydrocarbons	mg/l			1.5	0.94	
Metals						
Aluminum	mg/l	200	305	143	144	137
Arsenic	mg/l	0.086			0.054	0.061
Barium	mg/l	1.3	1.9	0.71	0.76	0.91
Beryllium	mg/l		0.0071			
Calcium	mg/l	30	49	24	32	91
Chromium	mg/l	0.53	0.92	0.37	0.41	39
Cobalt	mg/l	0.11	0.16	0.057	0.067	0.073
Copper	mg/l	0.17	0.26	0.1	0.12	0.11
Iron	mg/l	241	376	152	168	172
Lead	mg/l	0.082		0.056		
Magnesium	mg/l	57	94	46	56	83
Manganese	mg/l	3.1	4.9	1.9	2.1	4.7
Nickel	mg/l	0.73	1.1	0.49	0.52	0.54
Potassium	mg/l	17	20	16	10	23
Selenium	mg/l	0.075	0.15			0.059
Silver	mg/l	0.012				0.017
Sodium	mg/l	214	203	221	388	246
Titanium	mg/l	4.9	7.7	2.5	3.1	3.5
Vanadium	mg/l	0.44	0.69	0.28	0.29	0.29
Zinc	mg/l	0.4	0.68	0.27	0.31	0.29

TABLE 2

SUMMARY TABLE OF ANALYTICAL RESULTS: WATER
SITE 7, BUILDING 547
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

Chemical Group/Analyte	Units	Well Number MW547-1	MW547-2	MW547-3	MW547-4	MW547-5
Total Organic Carbon	mg/l	18.9	37.8	15.6	23.8	21.7
General Minerals						
Total Hardness	mg/l	310.	509.	250.	310.	568.
Specific Conductance	umhos/c	930	810	980	1260	1130
pH	-	7.4	7.4	7.5	7.7	7.2

Notes:

1. Shaded concentrations denote concentrations exceeding Maximum Contaminant Levels or Applied Action Levels.

TABLE 3

COMPARISON OF ACTION LEVELS FOR VARIOUS CHEMICAL GROUPS
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

CHEMICAL GROUP	MCL (water) (mg/L)	Biological Receptor	AAL (water) (ug/L)	AAL (air) (ug/m3)	AAL (soil) (mg/kg)	STLC (mg/L)	TTLC (wet weight) (mg/kg)
VOLATILE ORGANICS							
1,1,1-Trichloroethane	0.2	Human	300	300			
1,1,2,2-Tetrachloroethane	0.001						
1,1,2-Trichloroethane	0.032						
1,1-Dichloroethylene	0.006						
1,2-Dichloroethane	0.0005						
1,3-Dichloropropene	0.0005						
1,4-Dichlorobenzene	0.005						
2-Butanone		Human	2,000	300			
Benzene	0.001	Human	0.2	0.07			
Benzene		Freshwater	1				
Benzene		Saltwater	1				
Carbon Tetrachloride	0.0005						
Chloroform		Human	6	0.6			
Dibromochloropropane	0.0002						
Ethylbenzene	0.68	Human	2,000	100			
Ethylene Dibromide	0.00002						
Monochlorobenzene	0.03						
n-Hexane		Human	100	200			
Tetrachloroethylene	0.005						
Toluene		Human	2,000	200			
Toluene		Freshwater	90				
Toluene		Saltwater	20				
Trichloroethylene	0.005	Human	7	7		204.	2,040
Vinyl Chloride	0.0005	Human	0.5	0.1			
Xylene		Freshwater	40				

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TABLE 3

COMPARISON OF ACTION LEVELS FOR VARIOUS CHEMICAL GROUPS
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

CHEMICAL GROUP	MCL (water) (mg/L)	Biological Receptor	AAL (water) (ug/L)	AAL (air) (ug/m3)	AAL (soil) (mg/kg)	STLC (mg/L)	TTLC (wet weight) (mg/kg)
VOLATILE ORGANICS							
Xylene		Saltwater	70				
Xylene (all isomers)	1.75	Human	2,000	400	30,000		
SEMIVOLATILE ORGANICS							
Acenaphthene		Human	20	2			
Acenaphthylene		Human	20	2			
Anthracene		Human	20	2	100		
Atrazine	0.003						
Bentazon	0.018						
Benzo(a)pyrene		Human	0.09	0.009			
Fluoranthene		Human	20	2			
Fluorene		Human	20	2			
Naphthalene		Human	20	2			
Naphthalene		Freshwater	600				
Naphthalene		Saltwater	700				
Pentachlorophenol		Human	2	0.2		1.7	17
Pentachlorophenol		Freshwater	5				
Pentachlorophenol		Saltwater	10				
Phenanthrene		Human	20	2	100		
Pyrene		Human	20	2			
PESTICIDES/PCB's							
2,4,5-TP Silvex	0.01					1.	10
2,4-D	0.1	Human	40	4		10.	100
Aldicarb		Human	20	2			

TABLE 3

COMPARISON OF ACTION LEVELS FOR VARIOUS CHEMICAL GROUPS
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

CHEMICAL GROUP	MCL (water) (mg/L)	Biological Receptor	AAL (water) (ug/L)	AAL (air) (ug/m3)	AAL (soil) (mg/kg)	STLC (mg/L)	TTLC (wet weight) (mg/kg)
PESTICIDES/PCB's							
Aldrin						0.14	1.4
Chlordan						0.25	2.5
DDD,DDE,DDT						0.1	1.0
Diazinon		Human	30	3			
Dicofol		Human	1	0.1			
Dieldrin						0.8	8
Dioxin (2,3,7,8-TCCD)						0.001	0.01
Endrin	0.0002					0.02	0.2
Heptachlor		Human	0.1	0.01		0.47	4.7
Heptachlor Epoxide		Human	0.02	0.002			
Kepone						2.1	21
Lead Compounds, Organic							13
Lindane	0.004	Human	0.2	0.02		0.4	4
Malathion		Human	800	80			
Methoxychlor	0.1					10.	100
Mirex						2.1	21
Molinate	0.02						
Paraquat		Human	200	4			
Parathion, Ethyl		Human	40	0.2			
Polychlorinated Biphenyls (PCB's)						5.	50
Simazine	0.01						
Thiobencarb	0.07						
Toxaphene	0.005					0.5	5

TABLE 3

COMPARISON OF ACTION LEVELS FOR VARIOUS CHEMICAL GROUPS
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

CHEMICAL GROUP	MCL (water) (mg/L)	Biological Receptor	AAL (water) (ug/L)	AAL (air) (ug/m3)	AAL (soil) (mg/kg)	STLC (mg/L)	TTLC (wet weight) (mg/kg)
INORGANICS							
Aluminum	1.0						
Antimony						15.	500
Arsenic	0.05	Freshwater	70			5.0	500
Arsenic		Saltwater	20				
Asbestos							1.0
Barium	1.0	Human	350	5		100.	10,000
Beryllium						0.75	75
Cadmium	0.01	Freshwater	0.2			1.0	100
Cadmium		Saltwater	5				
Chromium	0.05	Freshwater	50				
Chromium		Saltwater	2				
Chromium III		Human	50,000	50		560.	2,500
Chromium VI						5.	500
Cobalt						80.	8,000
Copper		Human	4,000	200		25.	2,500
Copper		Freshwater	4				
Copper		Saltwater	6				
Cyanide		Human	1,000	50			
Fluoride (temperature dependent)	1.4 to 2.4						
Fluoride Salts						180.	18,000
Lead	0.05	Freshwater	10			5.0	1,000
Lead		Saltwater	4				
Mercury (inorganic)	0.002	Human	70	0.07		0.2	20
Molybdenum						350.	3,500
Nickel		Human	400	0.1		20.	2,000

TABLE 3

COMPARISON OF ACTION LEVELS FOR VARIOUS CHEMICAL GROUPS
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

CHEMICAL GROUP	MCL (water) (mg/L)	Biological Receptor	AAL (water) (ug/L)	AAL (air) (ug/m3)	AAL (soil) (mg/kg)	STLC (mg/L)	TTLC (wet weight) (mg/kg)
INORGANICS							
Nickel		Freshwater	1				
Nickel		Saltwater	8				
Nitrate	45.0	Saltwater	10				
Selenium	0.01					1.0	100
Silver	0.05	Human	200	2		5.	500
Silver		Freshwater	1				
Silver		Saltwater	6				
Thallium						7.0	700
Vanadium						24.	2,400
Zinc		Human	8,000	800		250.	5,000
Zinc		Freshwater	30				
Zinc		Saltwater	10				
CONSUMER ACCEPTANCE LIMITS							
Color	15 units						
Copper	1.0						
Corrosivity	Relatively Low						
Odor - Threshold	3 units						
Foaming Agents (MBAs)	0.5						
Iron	0.3						
Manganese	0.05						
Thiobencarb	0.001						
Turbidity	5 units						
Zinc	5.0						

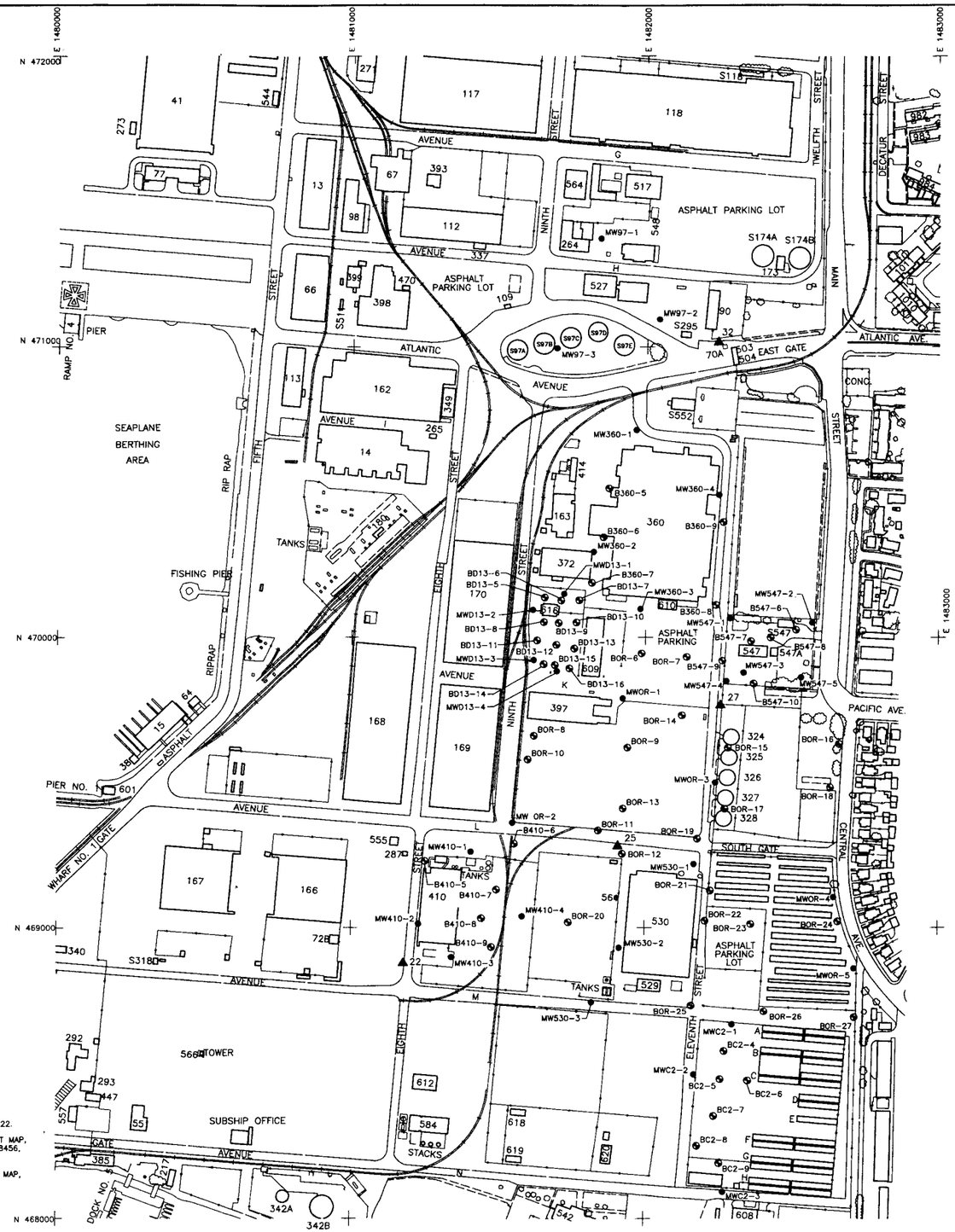
TABLE 3

COMPARISON OF ACTION LEVELS FOR VARIOUS CHEMICAL GROUPS
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

CHEMICAL GROUP	MCL (water) (mg/L)	Biological Receptor	AAL (water) (ug/L)	AAL (air) (ug/m3)	AAL (soil) (mg/kg)	STLC (mg/L)	TTLC (wet weight) (mg/kg)
MINERALIZATION							
Total Dissolved Solids	500						
or							
Specific Conductance	900 umhos						
Chloride	250						
Sulfate	250						

Notes:
1. MCL's are Maximum Contaminant Levels.
2. AAL's are Applied Action Levels.
3. STLC's are Soluble Threshold Limit Concentrations.
4. TTLC's are Total Threshold Limit Concentrations.
5. MCL's, STLC's and TTLC's were referenced in Barclays California Code of Regulations, Title 22 Social Security, Division 4 Environmental Health, updated June 22, 1990.
6. AAL's were referenced from the California Department of Health Services AAL List 90-1, dated June 29, 1990, which supercedes all previous AAL lists.
7. MCL's for the constituents listed under Consumer Acceptance Limits and Mineralization apply to Secondary Drinking Water Standards.
8. State of California recommended MCL's are listed for Mineralization - Secondary Drinking Water Standards.
9. Freshwater and saltwater biological receptors for the listed AAL's apply to aquatic life.

DRAWING NUMBER 86-018-E87



LEGEND:

- B360-5 SOIL BORING LOCATION
- MW97-2 MONITORING WELL LOCATION
- ▲22 SURVEY MONUMENT

SCALE
200 0 200 400 FEET

REFERENCES:

1. NAVAL AIR STATION ALAMEDA GENERAL DEVELOPMENT MAP, SHEETS 18 & 22.
2. NAVAL AIR STATION ALAMEDA, ALAMEDA, CALIFORNIA GENERAL DEVELOPMENT MAP, STATION MAP WITH SURVEY MONUMENTS ADDED, NAVFAC DRAWING NO. 638456, REVISION 8, DATED SEPTEMBER 15, 1986.
3. NAVAL AIR STATION, ALAMEDA, CALIFORNIA, STATION BENCHMARK LOCATION MAP, PWC DRAWING NO. 25144, DATED JANUARY 1985

PHASE 2A
MONITORING WELL AND SOIL BORING LOCATIONS
NAVAL AIR STATION ALAMEDA, CALIFORNIA

PREPARED FOR

WESTERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
SAN BRUNO, CALIFORNIA

CanonieEnvironmental

No.	DATE	ISSUE / REVISION	DWN. BY	CK'D BY	AP'D BY
2	11-9-90	ISSUED FOR PHASE 2A SURVEY DATA REPORT	VZC	TGB	RJG
1	10-17-90	ISSUED FOR ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT PERMIT NO. 90385	VZC	TGB	RJG

DATE: 10-9-90	FIGURE 1	DRAWING NUMBER	2
SCALE: AS SHOWN		86-018-E87	

APPENDIX A

CERTIFIED ANALYTICAL RESULTS

N00236.000795
ALAMEDA POINT
SSIC NO. 5090.3

APPENDIX A – CERTIFIED ANALYTICAL RESULTS

THIS RECORD CONTAINS ANALYTICAL DATA AND IS NOT REQUIRED TO BE PHYSICALLY LOCATED WITH THE ADMINISTRATIVE RECORD DOCUMENT.

THIS DATA WILL NOT BE IMAGED.

TO VIEW THE DATA, CONTACT:

DIANE C. SILVA
RECORDS MANAGEMENT SPECIALIST
NAVAL FACILITIES ENGINEERING COMMAND SOUTHWEST
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132

TELEPHONE: (619) 532-3676