N00236.000793
ALAMEDA POINT
SSIC NO. 5090.3

November 1990 86-018-1810

PHASE 2A ANALYTICAL RESULTS FOR SITE 3, AREA 97 REMEDIAL INVESTIGATION/FEASIBILITY STUDY NAVAL AIR STATION ALAMEDA ALAMEDA, CALIFORNIA

ENCLOSURE 3

Prepared for Western Division Naval Facilities Engineering Command

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November 21, 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 3, Area 97
Remedial Investigation/Feasibility Study
Naval Air Station Alameda
Alameda, California

Dear Ms. Dizon:

This report presents the Phase 2A analytical results for Site 3, Area 97, 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.

LIST OF TABLES

TABLE NUMBER	TITLE
1	Summary Table of Analytical Results: Soil Site 3, Area 97
2	Summary Table of Analytical Results: Water Site 3, Area 97
3	Comparison of Action Levels for Various Chemical Groups

LIST OF FIGURES

FIGURE NUMBER	DRAWING NUMBER	TITLE
1	86-018-E87	Phase 2A Monitoring Well and Soil Boring Locations

LIST OF APPENDICES

APPENDIX	TITLE
A	Certified Analytical Results

TABLE 2

SUMMARY TABLE OF ANALYTICAL RESULTS: WATER
SITE 3, AREA 97
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

Chemical Group/Analyte	Units	Well Number MW97-1	MW97-2	MW97-3
Metals				
Aluminum	mg/l	77	47	40
Barium	mg/l	0.58	0.33	0.37
Calcium	mg/l	113	261	150
Chromium	mg/l	0.25	0.12	0.12
Cobalt	mg/l	0.05		
Copper	mg/l	0.1	0.044	0.059
Iron	mg/l	95	67	54
Magnesium	mg/l	156	825	58
Manganese	mg/l	1.8	2.7	2.2
Nickel	mg/l	0.24	0.15	0.15
Potassium	mg/l	100	236	31
Selenium	mg/l	0.054		
Sodium	mg/l	2150	7525	199
Thallium	mg/l		0.055	
Titanium	mg/l	2.7	1.8	1.5
Vanadium	mg/l	0.22	0.11	0.11
Zinc	mg/l	0.19	0.11	0.14
Total Organic Carbon	mg/l	53.8	79.5	11.0
General Minerals				
Alkalinity, bicarb (as CaCO3)	mg/l	1550.	2430.	410.
Alkalinity, total (as CaCO3)	mg/l	1550.	2430.	410.
Total Hardness	mg/l	920.	4050.	614.
Total Dissolved Solids	mg/l	6440.	22300.	1280.
Specific Conductance	umhos/c	11300	36000	2000
pH	-	7.4	6.8	7.1

Notes:

1. Shaded concentrations denote concentrations exceeding the Maximum Contaminant Levels or the 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)	SHC (mg/L)	HHC (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				

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)	SILC (mg/L)	TILC (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)	SILC (mg/L)	TILC (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						

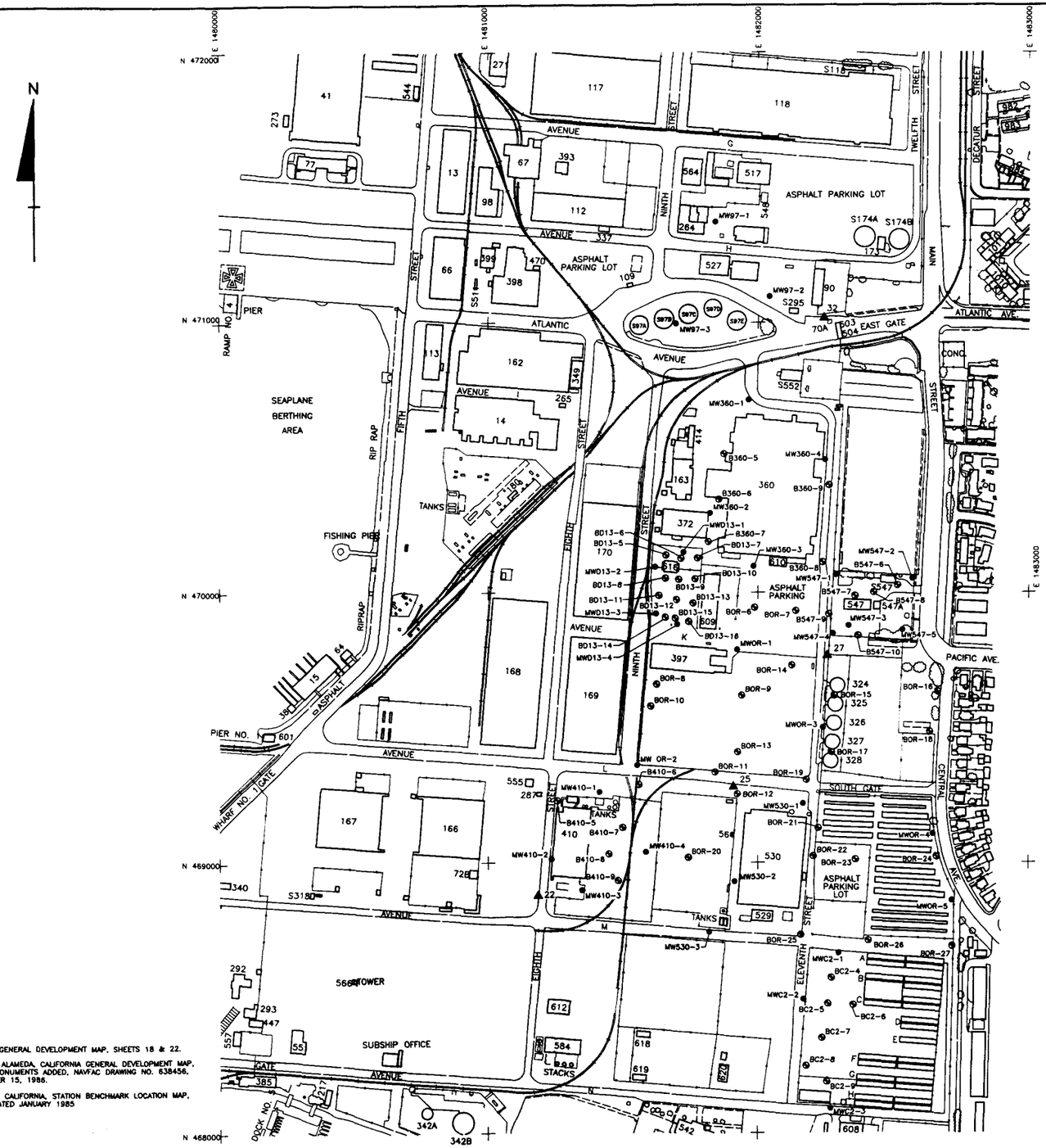
TABLE 3

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

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

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

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 86-018-E87	2
SCALE: AS SHOWN			

APPENDIX A

CERTIFIED ANALYTICAL RESULTS

N00236.000793
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

TABLE 1

SUMMARY TABLE OF ANALYTICAL RESULTS: SOIL
SITE 3, AREA 97
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)							
Chemical Group/Analyte	MW97-1 2.5 - 3.0	MW97-1 5.0 - 5.5	MW97-1 8.0 - 8.5	MW97-1 11.5 - 12.0	MW97-1 14.5 - 15.0	MW97-2 2.0 - 2.5	MW97-2 5.0 - 5.5	MW97-2 8.0 - 8.5
Volatile Organics								
Methylene Chloride		7.	29.	17.	16.	11.	28.	11.
Acetone		13.		18.	15.	17.	15.	32.
Toluene	6.	15.	32.		10.	6.	130.	110.
Carbon Disulfide							200.	

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 3, AREA 97
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)				
	MW97-2	MW97-3	MW97-3	MW97-3	MW97-3
Chemical Group/Analyte	11.5 - 12.0	2.0 - 2.5	5.0 - 5.5	8.0 - 8.5	11.5 - 12.0
Volatile Organics					
Methylene Chloride	11.	13.	9.	22.	11.
Acetone	39.		22.	70.	26.
Toluene	46.	26.	11.	50.	10.
Carbon Disulfide					

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 3, AREA 97
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

Chemical Group/Analyte	Boring Number/Sample Depth (feet) MW97-3 10.5 - 11.0
Semivolatile Organics	
Pyrene	3100.
Benzo(g,h,i)perylene	1600.

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

TABLE ~~1A~~ 1

SUMMARY TABLE OF ANALYTICAL RESULTS: SOIL
SITE 3, AREA 97
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)							
Chemical Group/Analyte	MW97-1 1.5 - 2.0	MW97-1 3.0 - 3.5	MW97-1 7.0 - 7.5	MW97-1 10.5 - 11.0	MW97-1R 11.0 - 11.5	MW97-1 14.0 - 14.5	MW97-2 1.0 - 1.5	MW97-2 3.5 - 4.0
Metals								
Aluminum	4270.	3820.	11800.	5850.	5280.	5430.	4440.	22400.
Arsenic			22.					21.
Barium	34.	31.	94.	30.	37.	34.	32.	260.
Calcium	2000.	20000.	4000.	1900.	1900.	3700.	2000.	2500.
Chromium	25.	22.	50.	25.	24.	25.	27.	79.
Cobalt			12.					9.
Copper	10.		110.	8.	17.	38.	7.	61.
Iron	8190.	7050.	25600.	6980.		8340.	7790.	31200.
Lead			44.		7380.			59.
Magnesium	2200.	2100.	6800.	2500.	2600.	2300.	2400.	10000.
Manganese	95.	110.	290.	58.	61.	58.	99.	230.
Nickel	23.	24.	60.	15.	17.	23.	24.	66.
Potassium	670.	630.	2500.	1100.	1100.	970.	700.	4100.
Sodium			4000.	2800.	2900.	2800.		6400.
Titanium	350.	310.	440.	360.	380.	280.	390.	670.
Vanadium	17.	16.	43.	22.	22.	18.	18.	57.
Zinc	28.	18.	120.	17.	23.	23.	20.	100.

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 3, AREA 97
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

	Boring Number/Sample Depth (feet)							
Chemical Group/Analyte	MW97-2 7.0 - 7.5	MW97-2 11.0 - 11.5	MW97-2R 11.0 - 11.5	MW97-2 14.0 - 14.5	MW97-3 0.5 - 1.0	MW97-3 3.5 - 4.0	MW97-3 7.0 - 7.5	MW97-3 10.5 - 11.0
Metals								
Aluminum	15400.	5920.	5110.	8240.	7720.	7110.	4340.	6720.
Arsenic	21.							
Barium	92.	24.	60.	39.	55.	35.		33.
Calcium	3500.	1000.	1500.	1100.	3100.	2400.	1700.	2100.
Chromium	57.	27.	25.	27.	35.	33.	24.	27.
Cobalt	14.				7.	6.		
Copper	44.		6.		18.	18.	11.	32.
Iron	33300.	9460.	5020.	13200.	13600.	15400.	8400.	9660.
Lead	100.				22.	10.	27.	
Magnesium	8800.	2400.	1900.	3100.	3600.	4300.	2200.	2400.
Manganese	420.	59.	55.	94.	180.	150.	85.	81.
Nickel	84.	23.	14.	39.	37.	34.	20.	23.
Potassium	2900.	900.	890.	1200.	1000.	1000.	830.	870.
Sodium	4700.	2500.	2100.	3700.				
Titanium	430.	310.	350.	400.	400.	360.	320.	380.
Vanadium	46.	21.	18.	21.	27.	26.	17.	23.
Zinc	98.	16.	16.	24.	60.	37.	32.	31.

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 3, AREA 97
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

Chemical Group/Analyte	Boring Number/Sample Depth (feet) MW97-3R 11.0 - 11.5	MW97-3 14.0 - 14.5
Metals		
Aluminum	10400.	8230.
Arsenic		
Barium	190.	72.
Calcium	1500.	1200.
Chromium	45.	31.
Cobalt	7.	
Copper	7.	17.
Iron	16200.	13400.
Lead		
Magnesium	3300.	3000.
Manganese	91.	100.
Nickel	40.	40.
Potassium	1300.	1100.
Sodium	780.	1200.
Titanium	480.	440.
Vanadium	35.	23.
Zinc	22.	30.

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 3, AREA 97
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY
OTHER ANALYTICAL TESTS

BORING LOCATION/DEPTH	pH	TPH (mg/kg)	Total Organic Carbon (mg/kg)	Ash (%)	Total Kjeldahl Nitrogen (mg/kg)
MW97-1 3.0'-3.5'	9.0				
MW97-1 4.0'-4.5'			1090.	95.6	174.
MW97-1 7.0'-7.5'		129.			
MW97-1 14.0'-14.5'		4.9			
MW97-2 1.0'-1.5'		19.3			
MW97-2 3.5'-4.0'	7.2				
MW97-2 3.5'-4.0'		28.7			
MW97-2 4.0'-4.5'			13500.	93.1	1400.
MW97-2 7.0'-7.5'		93.8			
MW97-3 0.5'-1.0'		133.			
MW97-3 3.5'-4.0'	7.5				
MW97-3 3.5'-4.0'		25.8			
MW97-3 4.0'-4.5'			1260.	98.3	196.
MW97-3 7.0'-7.5'		5.2			
MW97-3 10.5'-11.0'		31.6			

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

TABLE 1

SUMMARY TABLE OF ANALYTICAL RESULTS: SOIL
SITE 3, AREA 97
NAS ALAMEDA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY
OTHER ANALYTICAL TESTS

BORING LOCATION/DEPTH	Chloride (mg/kg)	Nitrate as N (mg/kg)	Sulfate (mg/kg)	Total Phosphorous (mg/kg)	Exchangable Ammonium-N (mg/kg)
MW97-1 3.0'-3.5'					
MW97-1 4.0'-4.5'	29.2	ND	42.1	675.	ND
MW97-1 7.0'-7.5'					
MW97-1 14.0'-14.5'					
MW97-2 1.0'-1.5'					
MW97-2 3.5'-4.0'					
MW97-2 3.5'-4.0'					
MW97-2 4.0'-4.5'	7550.	0.18	1210.	1230.	84.0
MW97-2 7.0'-7.5'					
MW97-3 0.5'-1.0'					
MW97-3 3.5'-4.0'					
MW97-3 3.5'-4.0'					
MW97-3 4.0'-4.5'	14.8	2.24	89.8	922.	ND
MW97-3 7.0'-7.5'					
MW97-3 10.5'-11.0'					

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