

TABLES

**Table 1. Special Status Species with Monitoring Requirements in the Fort Ord
Multispecies Habitat Management Plan
During Unexploded Ordnance Removal Activities
2003 Annual Monitoring Report
Former Fort Ord, Monterey California**

Scientific Name	Common Name	Status	CNPS R-E-D Code	Habitat
Plants				
<i>Gilia tenuiflora arenaria</i>	sand gilia	FE/ST/1B	3-2-3	Sandy openings in coastal dunes, scrub and maritime chaparral
<i>Lasthenia conjugens</i>	Contra Costa goldfields	FE/--/1B	3-3-3	Mesic valley and foothill grasslands. Known from vernal pool habitat in three locations on Fort Ord
<i>Piperia yadonii</i>	Yadon's piperia	FE/--/1B	3-3-3	Sandy soil in maritime chaparral, coastal scrub, and closed-cone coniferous forest
<i>Chorizanthe p. pungens</i>	Monterey spineflower	FT/--/1B	2-2-3	Colonizes recently disturbed sandy sites in coastal dune, coastal scrub, grassland, and maritime chaparral habitats
<i>Cordylanthus rigidus littoralis</i>	seaside bird's-beak	FSC/SE/1B	2-3-3	Sandy soils of stabilized dunes, maritime chaparral, coastal scrub, and closed-cone coniferous forest
<i>Arctostaphylos montereyensis</i>	Toro manzanita	FSC/--/1B	3-2-3	Stabilized sandy soils and badlands in maritime chaparral
<i>Arctostaphylos pumila</i>	sandmat manzanita	FSC/--/1B	3-2-3	Sand hills of maritime chaparral and coast live oak woodland
<i>Ceanothus cuneatus rigidus</i>	Monterey ceanothus	FSC/--/4	1-2-3	Sandy hills and flats of maritime chaparral, closed-cone coniferous forests, and coastal scrub
<i>Ericameria fasciculata</i>	Eastwood's goldenbush	FSC/--/1B	3-3-3	Coastal dune and scrub, maritime chaparral, and closed-cone coniferous forest
<i>Erysimum ammophilum</i>	coast wallflower	FSC/--/1B	2-2-3	Coastal dunes
<i>Arctostaphylos h. hookeri</i>	Hooker's manzanita	--/--/1B	2-2-3	Sand Hill and Aromas Formations, maritime chaparral and closed-cone coniferous forest
Reptile				
<i>Anniella pulchra nigra</i>	California black-legless lizard	--/--/CSC	NA	Moist, warm habitat with loose soil and prostrate plant cover located on beaches and chaparral with sandy soils
Amphibians				
<i>Rana aurora draytonii</i>	California red-legged frog	FT/--/CSC	NA	Lowlands, foothill woodland, grasslands near marshes, lakes, ponds or other permanent water sources with extensive emergent vegetation

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Scientific Name	Common Name	Status	CNPS R-E-D Code	Habitat
<i>Ambystoma californiense</i>	California tiger salamander	FC/--/CSC	NA	Grassland and oak woodland with scattered ponds, intermittent streams or vernal pools, upland habitat with rodent burrows required in summer
Invertebrate				
<i>Lindieriella occidentalis</i>	California linderiella	--/--/--	NA	Low lying areas. Temporary water sources, vernal pools, and ponds

Footnotes

STATUS CODES

FEDERAL

- FE - Listed as endangered under the Federal Endangered Species Act (16 U.S.C. 1531 *et seq.*)
- FT - Listed as threatened under the Federal Endangered Species Act (16 U.S.C. 1531 *et seq.*)
- FC - Federal Candidate for listing by the Federal Government (Former Category 1 Candidate for listing).
- FSC - U.S. Fish and Wildlife Service designated "Species of Concern" (Former Category 2 Candidate for listing)

STATE

- SE - Listed as endangered under the California Endangered Species Act (California Fish and Game Code Division 3, Chapter 1.5, Article 2)
- ST - Listed as threatened under the California Endangered Species Act (California Fish and Game Code Chapter 1.5)
- CSC - California Species of Special Concern

CNPS

- List 1B - Plants considered by CNPS as rare in California and elsewhere
- List 4 - Plants CNPS considers to have limited distributions-a watch list

CNPS R-E-D Code

- R (Rarity)
 - 1 Rare, but found in sufficient numbers and distributed widely enough that the potential for extinction is low at this time
 - 2 Distributed in a limited number of occurrences, occasionally more if each occurrence is small
 - 3 Distributed in one to several highly restricted occurrences, or present in such small numbers that is seldom reported
- E (Endangerment)
 - 2 Endangered in a portion of its range
 - 3 Endangered throughout its range
- D (Distribution)
 - 3 Endemic to California

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**Table 2. Habitat Monitoring Sites 1994-2003
2003 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Site Monitored	1994 Monitoring Activity*	1996 Monitoring Activity	1997 Monitoring Activity	1998 Monitoring Activity	1999 Monitoring Activity
OE11	BL: HMPA	BL: Chap, Herb FU1: HMPA		FU1: Chap, Herb	FU2: Chap, Herb
Range 30A					
UC/NRS-FONR					BL: HMPA
OE-10A Waterbody 42				BL: Veg, CRLF, CL, CTS	
OE-10B Machine Gun Flats			BL: Veg, CRLF	BL: FS, CATS	
Contra Costa goldfields				BL	BL2

* Monitoring Activities

BL	Baseline Survey
Chap	Chaparral Monitoring
FU#	Follow-up Monitoring (Year)
Herb	Herbaceous Species Surveys
HMPA	HMP Annual Species
Veg	Vegetative Surveys
	No monitoring occurred

Species Surveyed

CTS	California tiger salamander
CL	California linderiella
CRLF	California red-legged frog
SWPT	Southwestern pond turtle
TCBB	tri-colored blackbird

**Table 2. Habitat Monitoring Sites 1994-2003
2003 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Site Monitored	2000 Monitoring Activity	2001 Monitoring Activity	2002 Monitoring Activity	2003 Monitoring Activity
OE11	FU3: Chap, Herb	FU4: Chap, Herb FU2: HMPA	FU5: Chap, Herb FU3: HMPA	FU4: HMPA
Range 30A				BL: Chap, Herb, HMPA
UC/NRS-FONR	FU1: HMPA	FU2: HMPA	FU3: HMPA	FU4: HMPA
OE-10A Waterbody 42	BL: TCBB, SWPT FU1: Veg, CRLF, CL, CTS	FU1: TCBB, SWPT FU2: Veg, CRLF, CL, CTS	FU2: TCBB, SWPT FU3: Veg, CRLF, CL, CTS	FU3: TCBB, SWPT FU4: Veg, CRLF, CL, CTS
OE-10B Machine Gun Flats	BL: TCBB, SWPT, FU1: Veg, CRLF, CL, CTS	FU1: TCBB, SWPT FU2: Veg, CRLF, CL, CTS	FU2: TCBB, SWPT FU3: Veg, CRLF, CL, CTS	FU3: TCBB, SWPT FU4: Veg, CRLF, CL, CTS
Contra Costa goldfields	FU1: HMPA	FU2: HMPA	FU3: HMPA	FU4: HMPA

* Monitoring Activities

BL	Baseline Survey	Species Surveyed	CTS	California tiger salamander
Chap	Chaparral Monitoring	CL		California linderiella
FU#	Follow-up Monitoring (Year)	CRLF		California red-legged frog
Herb	Herbaceous Species Surveys	SWPT		Southwestern pond turtle
HMPA	HMP Annual Species	TCBB		tri-colored blackbird
Veg	Vegetative Surveys			

No monitoring occurred

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**Table 3. Intercept Distances and Percent Cover for Shrub Species,
Bare, and Vegetated Ground - Range 30A Disturbed Chaparral
2003 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Code	Scientific Name	Common name	Transect T1 187 ¹		Transect T4 162		Transect T6 171 ¹		Transect T11 165 ¹	
			Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover
ADFA	<i>Adenostoma fasciculatum</i>	chamise	68.7	36.7	76.6	47.3	46.6	27.3	28.9	17.5
ARHO	<i>Arctostaphylos hookeri</i> **	Hooker's manzanita	13.2	7.0	5.6	3.5				
ARPU	<i>Arctostaphylos pumila</i> **	sandmat manzanita								
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita	70.3	37.5	21.6	13.3	110.6	64.8	67.7	41.0
BAPI	<i>Baccharis pilularis</i>	coyote brush							1.3	0.8
CECR	<i>Ceanothus cuneatus rigidus</i> **	Monterey ceanothus	5.8	3.1	4.5	2.8	2.3	1.3	1.6	1.0
CEDE	<i>Ceanothus dentatus</i>	dwarf ceanothus								
HESC	<i>Helianthemum scoparium</i>	rush rose					0.6	0.4	4.4	2.7
HOCU	<i>Horkelia c. cuneata</i>	wedge-leaved horkelia							0.3	0.2
LECA	<i>Lepechinia calycina</i>	pitcher sage								
LOSC	<i>Lotus scoparius</i>	deerweed	0.3	0.2	2.3	1.4				
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey flower	0.1	0.1	1.1	0.7				
PIMO	<i>Pickeringia montana</i>	chaparral pea								
RHCA	<i>Rhamnus c. californica</i>	California coffeeberry	8.9	4.7	0.7	0.4				
SAME	<i>Salvia mellifera</i>	black sage	5.8	3.1			9.6	5.6	23.0	13.9
Total Species (shrubs and perennials) Cover			173.1	92.4	112.4	69.5	169.7	99.5	127.2	77.0
BG	--	Bare Ground	46.4	24.8	59.6	36.8	28.7	16.8	50.7	30.7
DV	--	Dead Vegetation								
VG	--	Vegetated Ground	4.2	2.2	8.1	5.0	0.4	0.2	3.5	2.1
Total: Cover, Bare Ground, Vegetated Ground			223.7	119.4	180.1	111.3	198.8	116.5	181.4	109.9

¹ Transect Length (feet)

*Non-native species

**HMP species

Overall species cover may exceed 100% due to differences in relative versus absolute cover between vegetation strata

**Table 3. Intercept Distances and Percent Cover for Shrub Species,
Bare, and Vegetated Ground - Range 30A Disturbed Chaparral
2003 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Code	Scientific Name	Common name	Transect T13 169 ¹		Transect T20 164 ¹		Combined Estimated (%) Cover
			Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	
ADFA	<i>Adenostoma fasciculatum</i>	chamise	83.1	49.3	49.3	30.0	34.70
ARHO	<i>Arctostaphylos hookeri</i> **	Hooker's manzanita	8.7	5.2			2.70
ARPU	<i>Arctostaphylos pumila</i> **	sandmat manzanita	2.7	1.6	16.1	9.8	1.85
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita	33.0	19.6	56.4	34.3	35.33
BAPI	<i>Baccharis pilularis</i>	coyote brush					0.13
CECR	<i>Ceanothus cuneatus rigidus</i> **	Monterey ceanothus	5.4	3.2	5.4	3.3	2.46
CEDE	<i>Ceanothus dentatus</i>	dwarf ceanothus	6.3		6.3	3.8	1.24
HESC	<i>Helianthemum scoparium</i>	rush rose					0.49
HOCU	<i>Horkelia c. cuneata</i>	wedge-leaved horkelia					0.03
LECA	<i>Lepechinia calycina</i>	pitcher sage			3.8	2.3	0.37
LOSC	<i>Lotus scoparius</i>	deerweed					0.26
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey flower					0.12
PIMO	<i>Pickeringia montana</i>	chaparral pea	1.1	0.7			0.11
RHCA	<i>Rhamnus c. californica</i>	California coffeeberry	9.1	5.4			1.84
SAME	<i>Salvia mellifera</i>	black sage	31.7	18.8	15.0	9.1	8.36
Total Species (shrubs and perennials) Cover			181.1	103.7	152.3	92.6	89.98
BG	--	Bare Ground	29.5	17.5	42.7	26.0	25.31
DV	--	Dead Vegetation	2.4	1.4	3.2	1.9	0.55
VG	--	Vegetated Ground			0.6	0.4	1.65
Total: Cover, Bare Ground, Vegetated Ground			213.0	122.7	198.8	120.9	117.49

¹ Transect Length (feet)

*Non-native species

**HMP species

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Approved _____

**Table 4. Intercept Distances and Percent Cover for Shrub Species,
Bare, and Vegetated Ground - Range 30A Intermediated Age Habitat
2003 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Code	Scientific Name	Common name	Transect T3 161		Transect T5 161		Transect T10 169		Transect T12 168	
			Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover
ADFA	<i>Adenostoma fasciculatum</i>	chamise	73.6	45.8	32.0	19.8	47.3	28.0	32.6	19.4
ARHO	<i>Arctostaphylos h. hookeri</i> **	Hooker's manzanita	42.8	26.6	23.9	14.8	4.6	2.7		
ARPU	<i>Arctostaphylos pumila</i> **	sandmat manzanita					21.7	12.8	10.3	6.1
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita	31.0	19.3	67.5	41.8	83.3	49.3	87.7	52.3
BAPI	<i>Baccharis pilularis</i>	coyote brush	1.4	0.9			1.7	1.0		
CECR	<i>Ceanothus cuneatus rigidus</i> **	Monterey ceanothus	9.8	6.1	1.4	0.9	5.1	3.0	1.3	0.8
CEDE	<i>Ceanothus dentatus</i>	dwarf ceanothus	3.1	1.9	10.8	6.7				
GAEL	<i>Garrya elliptica</i>	coast silk tassel			2.2	1.4				
HEAR	<i>Heteromeles arbutifolia</i>	toyon			1.1	0.7				
LECA	<i>Lepechinia calycina</i>	pitcher sage	0.1	0.1	3.7	2.3	3.8	2.2	0.2	0.1
LOSC	<i>Lotus scoparius</i>	deerweed								
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey-flower							2.1	1.3
QUAG	<i>Quercus a. agrifolia</i>	coast live oak								
RHCA	<i>Rhamnus c. californica</i>	California coffeeberry								
SAME	<i>Salvia mellifera</i>	black sage	13.5	8.4	7.4	4.6	4.4	2.6	17.0	10.1
TODI	<i>Toxicodendron diversilobum</i>	poison oak	0.6	0.4					0.6	0.4
Total Species (shrubs and perennials) Cover			175.9	109.5	150.0	92.9	171.9	101.8	151.8	90.5
BG	--	Bare Ground	13.0	8.1	26.6	16.5	28.6	16.9	35.4	21.1
DV	--	Dead Vegetation	1.4	0.9	0.8	0.5	0.7	0.4	1.5	0.9
VG	--	Vegetated Ground			9.1	5.6	16.3	9.7		
Total: Cover, Bare Ground, Vegetated Ground			190.3	118.4	186.5	115.6	217.5	128.8	188.7	112.5

¹ Transect Length (feet)

*Non-native species

**HMP species

Overall species cover may exceed 100% due to differences in relative versus absolute cover between vegetation strata

**Table 4. Intercept Distances and Percent Cover for Shrub Species,
Bare, and Vegetated Ground - Range 30A Intermediated Age Habitat
2003 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Code	Scientific Name	Common name	Transect T14 155		Transect T19 176		Combined Estimated (%) Cover
			Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	
ADFA	<i>Adenostoma fasciculatum</i>	chamise	21.5	13.9	17.9	10.2	22.72
ARHO	<i>Arctostaphylos h. hookeri</i> **	Hooker's manzanita			3.3	1.9	7.54
ARPU	<i>Arctostaphylos pumila</i> **	sandmat manzanita					3.23
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita	92.6	59.7	149.8	85.2	51.72
BAPI	<i>Baccharis pilularis</i>	coyote brush			1.0	0.6	0.41
CECR	<i>Ceanothus cuneatus rigidus</i> **	Monterey ceanothus	24.0	15.5	4.0	2.3	4.61
CEDE	<i>Ceanothus dentatus</i>	dwarf ceanothus	12.7	8.2	2.6	1.5	2.95
GAEL	<i>Garrya elliptica</i>	coast silk tassel					0.22
HEAR	<i>Heteromeles arbutifolia</i>	toyon					0.11
LECA	<i>Lepechinia calycina</i>	pitcher sage	1.5	1.0	2.2	1.3	1.16
LOSC	<i>Lotus scoparius</i>	deerweed					0.00
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey-flower	0.7	0.5			0.28
QUAG	<i>Quercus a. agrifolia</i>	coast live oak			3.2	1.8	0.32
RHCA	<i>Rhamnus c. californica</i>	California coffeeberry			6.2	3.5	0.63
SAME	<i>Salvia mellifera</i>	black sage	0.4	0.3	14.9	8.5	5.82
TODI	<i>Toxicodendron diversilobum</i>	poison oak	19.9	12.8	0.3	0.2	2.16
Total Species (shrubs and perennials) Cover			173.3	111.7	205.4	116.8	103.89
BG	--	Bare Ground	20.9	13.5	8.8	5.0	13.47
DV	--	Dead Vegetation	2.2	1.4	8.0	4.6	1.48
VG	--	Vegetated Ground					2.57
Total: Cover, Bare Ground, Vegetated Ground			196.4	126.5	222.2	126.4	121.40

¹ Transect Length (feet)

*Non-native species

**HMP species

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Approved _____

**Table 5. Intercept Distances and Percent Cover for Shrub Species,
Bare, and Vegetated Ground - Range 30A
Mature Habitat
2003 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Code	Scientific Name	Common name	Transect T2 148		Transect T7 169		Transect T8 163		Transect T9 162		Transect T15 160	
			Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover
ADFA	<i>Adenostoma fasciculatum</i>	chamise	80.9	54.6	62.1	36.8	39.5	24.2	100.6	62.2	34.2	21.4
ARCA	<i>Artemisia californica</i>	California sagebrush										
ARHO	<i>Arctostaphylos h. hookeri</i> **	Hooker's manzanita	9.3	6.3					5.5	3.4		
ARPU	<i>Arctostaphylos pumila</i> **	sandmat manzanita			3.7	2.2						
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita	31.4	21.2	103.4	61.3	110.8	67.9	52.4	32.4	86.7	54.3
BAPI	<i>Baccharis pilularis</i>	coyote brush			2.4	1.4						
CECR	<i>Ceanothus cuneatus rigidus</i> **	Monterey ceanothus	7.4	5.0	16.1	9.5	12.1	7.4	28.1	17.4	6.1	3.8
CEDE	<i>Ceanothus dentatus</i>	dwarf ceanothus	0.9	0.6							24.2	15.2
GAEL	<i>Garrya elliptica</i>	coast silk tassel			1.2	0.7						
LECA	<i>Lepechinia calycina</i>	pitcher sage			4.8	2.8	0.7	0.4	1.3	0.8		
RHCA	<i>Rhamnus c. californica</i>	California coffeeberry							7.1	4.4		
SAME	<i>Salvia mellifera</i>	black sage			16.1	9.5	33.7	20.7	43.7	27.0	29.0	18.2
TODI	<i>Toxicodendron diversilobum</i>	poison oak					1.7	1.0	1.3	0.8	2.3	1.4
Total Species (shrubs and perennials) Cover			129.9	87.7	209.8	124.4	198.5	121.7	240.0	148.3	182.5	114.3
BG	--	Bare Ground	31.2	21.1	7.2	4.3	5.8	3.6	11.4	7.0	20.2	12.7
DV	--	Dead Vegetation	10.8	7.3							2.8	1.8
VG	--	Vegetated Ground	9.2	6.2	0.4						1.1	0.7
Total: Cover, Bare Ground, Vegetated Ground			181.1	122.3	217.4	128.7	204.3	125.3	251.4	155.4	206.6	129.4

¹ Transect Length (feet)

*Non-native species

**HMP species

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**Table 5. Intercept Distances and Percent Cover for Shrub Species,
Bare, and Vegetated Ground - Range 30A
Mature Habitat
2003 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Code	Scientific Name	Common name	Transect T16 167		Transect T17 170		Transect T18 144		Transect T21 147		Transect T22 161		Combined Estimated (%) Cover
			Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	
ADFA	<i>Adenostoma fasciculatum</i>	chamise	34.3	20.5	70.4	41.3	61.5	42.7	35.0	23.8	31.7	19.7	34.58
ARCA	<i>Artemisia californica</i>	California sagebrush							1.1	0.7			0.07
ARHO	<i>Arctostaphylos h. hookeri</i> **	Hooker's manzanita											0.93
ARPU	<i>Arctostaphylos pumila</i> **	sandmat manzanita											0.23
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita	64.3	38.5	61.1	35.9	61.6	42.8	64.5	43.8	106.7	66.2	46.69
BAPI	<i>Baccharis pilularis</i>	coyote brush					2.3	1.6					0.30
CECR	<i>Ceanothus cuneatus rigidus</i> **	Monterey ceanothus	34.3	20.5	58.3	34.2	44.9	31.2	15.4	10.5	11.1	6.9	14.70
CEDE	<i>Ceanothus dentatus</i>	dwarf ceanothus	7.6	4.5					46.2	31.4	17.8	11.0	6.08
GAEL	<i>Garrya elliptica</i>	coast silk tassel					2.2	1.5	0.6	0.4	0.7	0.4	0.08
LECA	<i>Lepechinia calycina</i>	pitcher sage											0.65
RHCA	<i>Rhamnus c. californica</i>	California coffeeberry											0.45
SAME	<i>Salvia mellifera</i>	black sage	41.3	24.7	26.5	15.6	17.0	11.8	13.5	9.2	10.2	6.3	14.52
TODI	<i>Toxicodendron diversilobum</i>	poison oak			0.6	0.4	0.3	0.2	20.5	13.9	2.8	1.7	1.85
Total Species (shrubs and perennials) Cover			181.8	108.8	216.9	127.3	189.8	131.9	196.8	133.6	181.0	112.4	121.12
BG	--	Bare Ground	7.4	4.4	16.8	9.9	4.5	3.1	1.8	1.2	21.7	13.5	8.05
DV	--	Dead Vegetation	5.5	3.3	0.2	0.1					3.0	1.9	1.40
VG	--	Vegetated Ground									1.0	0.6	0.74
Total: Cover, Bare Ground, Vegetated Ground			194.7	116.5	233.9	137.3	194.3	135.0	198.6	134.8	206.7	128.3	131.30

¹ Transect Length (feet)

*Non-native species

**HMP species

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**Table 6. Summary of Wetland Survey Dates
2003 Annual Monitoring Report
Former Fort Ord, Monterey, California**

Waterbody	Survey Type	Survey Dates				
		Jan 28	Jan 29	Feb 24	Mar 29	May 01
42	Follow-up	X		X	NW	NW
MGF Machine Gun Flats	Follow-up		X	X	X	X

NW - No Water

Approved _____

**Table 7. Summary of Wetland Monitoring Transects
2003 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Site	Transect Number	Transect Length (ft)	Number of Quadrats	Total Area Sampled (m ²)
Waterbody 42	1	63	7	1.75
	2	72	8	2.00
Machine Gun Flats	1	98	9	2.25
	2	70	9	2.25
	3	64	6	1.50
	4	101	11	2.75
	5	99	10	2.25
	6	50	6	1.50
	7	50	6	1.50
	8	50	6	1.50
	9	41	5	1.25

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**Table 8. Flora Observed During Wetland Monitoring
2003 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Scientific Name	Common Name	Wetland Indicator Status
<i>Aira caryophylla</i> *	silver European hairgrass	NI
<i>Anagallis arvensis</i> *	scarlet pimpernel	FAC
<i>Avena barbata</i> *	slender wild oat	NI
<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita	NI
<i>Baccharis pilularis</i>	coyote bush	NI
<i>Briza maxima</i> *	rattlesnake grass	NI
<i>Briza minor</i> *	small quaking grass	FACW
<i>Brodiaea terrestris</i>	ground brodiaea	NI
<i>Bromus diandrus</i> *	rippgut grass	NI
<i>Bromus hordeaceus</i> *	soft chess	FACU
<i>Calandrinia ciliata</i>	redmaids	FACU
<i>Castilleja exserta</i>	dense owl's-clover	NI
<i>Cirsium brevistylum</i>	Indian thistle	NI
<i>Conium maculatum</i> *	poison hemlock	FACW
<i>Conyza bonariensis</i> *	horseweed	FAC
<i>Cotula coronopifolia</i> *	brass buttons	FACW
<i>Deschampsia danthonioides</i>	annual hair-grass	FACU
<i>Distichlis spicata</i>	saltgrass	FACW
<i>Eleocharis a. acicularis</i>	needle spike-rush	OBL
<i>Eleocharis macrostachya</i>	pale spike marsh	OBL
<i>Erechtites glomerata</i> *	cut-leaved fireweed	NI
<i>Erodium botrys</i> *	broadleaf filaree	NI
<i>Erodium cicutarium</i> *	red-stemmed filaree	NI
<i>Erodium moschatum</i> *	white-stemmed filaree	NI
<i>Eryngium armatum</i>	coast eryngo	FACW
<i>Galium aparine</i>	goose grass	FACU
<i>Gastridium ventricosum</i> *	nitgrass	FACU
<i>Geranium carolinianum</i>	Carolina geranium	NI
<i>Gnaphalium luteo-album</i> *	common cudweed	FACW
<i>Gnaphalium stramineum</i>	cotton-balling plant	FAC
<i>Hemizonia congesta</i>	hayfield tarweed	NI
<i>Hemizonia corymbosa</i>	coast tarweed	NI
<i>Hordeum b. brachyantherum</i>	meadow barley	FACW
<i>Hypochaeris glabra</i> *	smooth cat's-ear	NI
<i>Juncus b. bufonius</i>	common toad rush	FACW
<i>Juncus occidentalis</i>	road-fruited toad rush	FACW
<i>Juncus patens</i>	spreading rush	FAC
<i>Juncus phaeocephalus</i>	brown-headed rush	FACW
<i>Lolium multiflorum</i> *	Italian ryegrass	NI
<i>Lythrum hyssopifolia</i>	grass poly	FACW
<i>Madia sativa</i>	coast tarweed	NI
<i>Malacothrix californica</i>	California dandelion	NI
<i>Malvella leprosa</i>	alkali mallow	FAC
<i>Nassella pulchra</i>	purple needlegrass	NI
<i>Plantago coronopus</i> *	cut-leaved plantain	FAC

**Table 8. Flora Observed During Wetland Monitoring
2003 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Scientific Name	Common Name	Wetland Indicator Status
<i>Plantago erecta</i>	dwarf plantain	NI
<i>Polypogon monspeliensis</i> *	rabbitfoot grass	FACW
<i>Psilocarphus globiferus</i>	woolly-marbles	NI
<i>Rumex crispus</i> *	curly dock	FACW
<i>Sonchus asper</i>	prickley sow-thistle	FAC
<i>Sisyrinchium bellum</i>	blue-eyed grass	FAC
<i>Sonchus oleraceus</i> *	common sow-thistle	NI
<i>Stachys a. ajugoidies</i>	bugle hedge-nettle	OBL
<i>Vulpia m. myuros</i> *	rat-tail fescue	FACU

*Non-native species

Wetland indicator definitions:

OBL-obligate >99% probability of occurrence in wetlands

FACW-facultative wetland >67% probability of occurrence in wetlands

FAC- facultative .33% to 67% probability of occurrence in wetlands

FACU-facultative upland 1% to 33% probability of occurrence in wetlands

UPL- upland <1% probability of occurrence in wetlands

NI- no indicator status assigned

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**Table 9. Percent Vegetative Cover by Species in Seasonal Wetland Habitat - Waterbody 42
2003 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Code	Scientific Name	Common Name	Transect 1					Average Cover (%)
			1 % Cover	2 % Cover	3 % Cover	4 % Cover	5 % Cover	
AICA	<i>Aira caryophyllaea*</i>	silver European hairgrass		15	30		5	10.0
ANAR	<i>Anagallis arvensis*</i>	scarlet pimpernel	5	5		5	5	4.0
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita	5					1.0
AVBA	<i>Avena barbata*</i>	slender wild oat					2	0.4
BRMI	<i>Briza minor*</i>	small quaking grass						0.0
BRIE	<i>Brodiaea terrestris</i>	dwarf brodiaea					3	0.6
BRHO	<i>Bromus hordeaceus*</i>	soft chess					2	0.4
CACI	<i>Calandrinia ciliata</i>	red maids		5				1.0
CAEX	<i>Castilleja exserta</i>	owl's clover			2			0.4
COCO	<i>Cotula coronopifolia*</i>	brass buttons						0.0
DEDA	<i>Deschampsia danthonioides</i>	annual hairgrass						0.0
ELMA	<i>Eleocharis macrostachya</i>	pale spike-rush						0.0
ERCI	<i>Erodium cicutarium*</i>	red-stemmed filaree						0.0
ERMO	<i>Erodium moschatum*</i>	white-stemmed filaree						0.0
ERAR	<i>Eryngium armatum</i>	coast eryngo				2		0.4
GAVE	<i>Gastidium ventricosm*</i>	nit grass		2				0.4
GECA	<i>Geranium carolinianum*</i>	Carolina geranium						0.0
GNST	<i>Gnaphalium stramineum</i>	cotton-batting plant						0.0
HECO7	<i>Hemizonia congesta</i>	hayfield tarweed					5	1.0
HECO	<i>Hemizonia corymbosa</i>	coastal tarweed	10	10	5	10		7.0
HYGL	<i>Hypochaeris glabra*</i>	smooth cat's-ear	35	15	20	60	55	37.0
JUBU	<i>Juncus b. bufonius</i>	common toad rush	2	2				0.8
JUPH	<i>Juncus phaeocephalus</i>	brown-headed rush						0.0
LYHY	<i>Lythrum hyssopifolia*</i>	grass poly						0.0
MASA	<i>Madia sativa</i>	coast tarweed						0.0
MACA	<i>Malacothrix californica</i>	California dandelion	5					1.0
NAPU	<i>Nassella pulchra</i>	purple needlegrass	10	25			10	9.0
PLAGI	<i>Plagiobothrys sp.</i>	popcornflower						0.0
PLER	<i>Plantago erecta</i>	California plantain			10	10	5	5.0
PSTE	<i>Psilocarphus tenellus</i>	woolly-marbles						0.0
POMO	<i>Polypogon monspeliensis*</i>	rabbitfoot grass						0.0
SIBE	<i>Sisyrinchium bellum</i>	blue-eyed grass	25		20			9.0
STAJ	<i>Stachys ajugoides</i>	bugle-hedge nettle						0.0
VUMY	<i>Vulpia m. myuros*</i>	rat-tail fescue		2				0.4
	Total Vegetative Cover		97	81	87	87	92	88.8
	Bare Ground		8	20	15	15	25	16.6
	Total Cover		105	101	102	102	117	105.4

*Non-native species

**Table 9. Percent Vegetative Cover by Species in Seasonal Wetland Habitat - Waterbody 42
2003 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Code	Scientific Name	Common Name	Transect 2								Average Cover (%)	Combined Average Cover (%)
			1 %	2 %	3 %	4 %	5 %	6 %	7 %	8 %		
AICA	<i>Aira caryophyllea</i> *	silver European hairgrass	40	40	20	5	3	5	15	5	16.6	13.31
ANAR	<i>Anagallis arvensis</i> *	scarlet pimpernel	5	20	10				10	10	6.9	5.44
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita									0.0	0.50
AVBA	<i>Avena barbata</i> *	slender wild oat			5	10					1.9	1.14
BRMI	<i>Briza minor</i> *	small quaking grass	5				5		1		1.4	0.69
BRIE	<i>Brodiaea terrestris</i>	dwarf brodiaea		5	10	2		2			2.4	1.49
BRHO	<i>Bromus hordeaceus</i> *	soft chess	5					10		2	2.1	1.26
CACI	<i>Calandrinia ciliata</i>	red maids			5	5		2			1.5	1.25
CAEX	<i>Castilleja exserta</i>	owl's clover									0.0	0.20
COCO	<i>Cotula coronopifolia</i> *	brass buttons			5	5	10	5			3.1	1.56
DEDA	<i>Deschampsia danthonioides</i>	annual hairgrass				10			7	2	2.4	1.19
ELMA	<i>Eleocharis macrostachya</i>	pale spike-rush					10				1.3	0.63
ERCI	<i>Erodium cicutarium</i> *	red-stemmed filaree		5	10						1.9	0.94
ERMO	<i>Erodium moschatum</i> *	white-stemmed filaree					10	5			1.9	0.94
ERAR	<i>Eryngium armatum</i>	coast eryngo			7	15	15	10			5.9	3.14
GAVE	<i>Gastridium ventricosm</i> *	nit grass									0.0	0.20
GECA	<i>Geranium carolinianum</i> *	Carolina geranium			5						0.6	0.31
GNST	<i>Gnaphalium stramineum</i>	cotton-batting plant	3								0.4	0.19
HECO7	<i>Hemizonia congesta</i>	hayfield tarweed							25	10	4.4	2.69
HECO	<i>Hemizonia corymbosæ</i>	coastal tarweed	2	5	5	5		5			2.8	4.88
HYGL	<i>Hypochaeris glabra</i> *	smooth cat's-ear							20	35	6.9	21.94
JUBU	<i>Juncus b. bufonius</i>	common toad rush									0.0	0.40
JUPH	<i>Juncus phaeocephalus</i>	brown-headed rush					5				0.6	0.31
LYHY	<i>Lythrum hyssopifolia</i> *	grass poly				10					1.3	0.63
MASA	<i>Madia sativa</i>	coast tarweed	7								0.9	0.44
MACA	<i>Malacothrix californica</i>	California dandelion		5		5					1.3	1.13
NAPU	<i>Nassella pulchra</i>	purple needlegrass								15	1.9	5.44
PLAGI	<i>Plagiobothrys sp.</i>	popcornflower			5	3					1.6	0.81
PLER	<i>Plantago erecta</i>	California plantain					15	40	2		7.1	6.06
PSTE	<i>Psilocarphus tenellus</i>	woolly-marbles					20	3			2.9	1.44
POMO	<i>Polypogon monspeliensis</i> *	rabbitfoot grass			2		5	5			1.5	0.75
SIBE	<i>Sisyrinchium bellum</i>	blue-eyed grass									0.0	4.50
STAJ	<i>Stachys ajugoides</i>	bugle-hedge nettle	5				5				1.3	0.63
VUMY	<i>Vulpia m. myuros</i> *	rat-tail fescue		15						10	3.1	1.76
	Total Vegetative Cover		72	95	89	75	108	92	80	89	87.5	88.2
	Bare Ground		30	10	20	25	5	5	20	10	15.6	16.1
	Total Cover		102	105	109	100	113	97	100	99	103.1	104.3

*Non-native species

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**Table 11. Special-Status Vertebrate Species Observed
2003 Annual Monitoring Report
Former Fort Ord, Monterey County California**

	Special-Status Vertebrate Species Observed ^a																
	January				February				March				May				
	Waterbody	CRLF	CATS	SWPT	TCBB	CRLF	CATS	SWPT	TCBB	CRLF	CATS	SWPT	TCBB	CRLF	CATS	SWPT	TCBB
42	-- ^b	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MGF	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--

MGF Machine Gun Flats
NS Not Surveyed

^a Special-status species surveyed include:
CATS : California tiger salamander.
CARLF : California red-legged frog.
SWPT : Southwestern pond turtle.
TCBB : Tricolored blackbird.

^b "--" : none observed during the survey activity.

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**Table 12. Observed Vertebrate Fauna at Wetland Monitoring Sites
2003 Annual Monitoring Report
Former Fort Ord, Monterey, California**

Scientific Name	Common Name
Amphibians	
<i>Hyla regilla</i>	Pacific treefrog
<i>Thamnophis sirtalis infernalis</i>	California red-sided garter snake
Reptiles	
<i>Gerrhonotus multicarinatus</i>	Southern alligator lizard
<i>Sceloporus occidentalis</i>	Western fence lizard
Birds	
<i>Accipiter cooperii</i>	Cooper's hawk
<i>Agelaius phoeniceus</i>	red-winged blackbird
<i>Anas platyrhynchos</i>	mallard
<i>Aphelocoma coerulescens</i>	scrub jay
<i>Branta canadensis</i>	Canada goose
<i>Buteo jamaicensis</i>	red-tailed hawk
<i>Callipepla californica</i>	California quail
<i>Calypte anna</i>	Anna's hummingbird
<i>Cathartes aura</i>	turkey vulture
<i>Charadrius vociferus</i>	killdeer
<i>Euphagus cyanocephalus</i>	Brewer's blackbird
<i>Falco sparverius</i>	American kestrel
<i>Hirundo rustica</i>	barn swallow
<i>Junco hyemalis</i>	dark-eyed junco
<i>Meleagris gallopavo</i>	wild turkey
<i>Mimus polyglottos</i>	Northern mockingbird
<i>Pipilo</i> sp.	towhee
<i>Sayornis nigricans</i>	black phoebe
<i>Sialia mexicana</i>	Western bluebird
<i>Sturnella neglecta</i>	Western meadowlark
<i>Tachycineta bicolor</i>	tree swallow
<i>Tringa flavipes</i>	lesser yellowlegs
<i>Troglodytes aedon</i>	house wren
<i>Turdus migratorius</i>	American robin
<i>Zenaida macroura</i>	mourning dove
Mammals	
<i>Canis latrans</i>	coyote
<i>Canis lupus familiaris</i>	domestic dog
<i>Felis rufus</i>	bobcat
<i>Peromyscus californicus</i>	California mouse
<i>Spermophilus beecheyi</i>	California ground squirrel
<i>Sylvilagus bachmani</i>	brush rabbit
<i>Sylvilagus</i> sp.	cottontail rabbit

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**Table 13. Summary of California Linderiella Monitoring Results
2003 Annual Monitoring Report
Former Fort Ord, Monterey, California**

Pool	California Linderiella Abundance ¹				
	January	February	March	April	May
42	High low 100s	--	NS	NS	NS
MGF	Very high 10,000s	Very high 1000s	--	NS	NS

MGF Machine Gun Flats

¹ A qualitative estimate of abundance is based on the total number of California linderiella observed from 10 to 20 random samples (depending on size and complexity of each waterbody) collected with a dipnet from throughout each pool.

Abundance is defined as follows:
 "--" : None observed.
 Low: 1 to 10 linderiella observed.
 Moderate: 11 to 100 linderiella observed.
 High: 101 to 300 linderiella observed.
 Very high: more than 300 linderiella observed.
 IM: immature only observed, not identifiable to species.
 NS : Not surveyed.
 NR : Survey not required.

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**Table 14. Summary of Physical Parameters of Wetland Monitoring Sites
2003 Annual Monitoring Report
Former Fort Ord, Monterey, California**

Waterbody	Maximum depth (inches)					Area (acres)					Turbidity (ntu)					pH				
	Jan.	Feb.	Mar.	Apr.	May	Jan.	Feb.	Mar.	Apr.	May	Jan.	Feb.	Mar.	Apr.	May	Jan.	Feb.	Mar.	Apr.	May
42	10	6	NW	NS	NS	0.11	0.05	NW	NS	NS	16	NM	NW	NS	NS	6.3	NM	NW	NS	NS
MGF	12.5	12	12	NS	NW	4.44	4.27	0.07	NS	NW	11.8	NM	126	NS	NW	6.13	NM	6.89	NS	NW
Bullfrog Pond	>36	>36	>36	NS	NM	0.08	0.07	0.07	NS	0.05		NM	147	NS	152			6.42	NS	6.75

ntu turbidity units
 NM Not Measured
 NS Not Surveyed
 NW No Water

Approved _____