

Tables

TABLE 2-1
Presence, density and acreage of HMP annual plants species found during surveys of remediation sites.
Dash mark indicates a survey was conducted and the species was not found.

HA Site HMP annual plant surveys	Sand Gilia Density and Acreage	Monterey Spineflower Density within the Survey Area	Seaside Bird's beak Density and Acreage	Figure #
18	--	Low – High	--	Fig. 2-2
22	--	Low - Medium	---	Fig. 2-3
26	--	Presence reported from 2000 survey ¹	--	Fig. 2-4
27	--	--	--	Fig. 2-5
27A	--	--	--	Fig. 2-6
28	--	Low (0.3 acre)	--	Fig. 2-7
29	--	--	--	Fig. 2-8
33	-- ³	Low - High	--	Fig. 2-9
34	--	--	--	Fig. 2-10
36	--	--	--	Fig. 2-11
37	--	Low	--	Fig. 2-12
39/40	--	Low - High	--	Fig. 2-13
44	Presence reported from 2005 survey ²	Presence reported from 2005 survey ²	Presence reported from 2005 survey ²	Fig. 2-14
48	Presence reported from 2005 survey ²	Presence reported from 2005 survey ²	Presence reported from 2005 survey ²	Fig. 2-15

¹ Data can be found in the 2000 Annual Monitoring Report (USACE, 2001)

² Survey data in 2005 Annual Biological Monitoring Report, Ranges 43-48, Former Fort Ord, Monterey County, California (USACE, 2005)

³ Though not recorded in this study or in an earlier published survey, sand gilia has been reported anecdotally to be present within the maritime chaparral area of HA-28.

Table 2-2
List of plant species encountered in HA-18 remediation area.

	Scientific Name	Common Name
Shrub species		
	<i>Arctostaphylos pumila</i>	sandmat manzanita
	<i>Arctostaphylos t. tomentosa</i>	shaggy barked manzanita
	<i>Artemesia californica</i>	California sagebrush
	<i>Baccharis pilularis</i>	coyote brush
*	<i>Carpobrotus edulis</i>	iceplant
	<i>Ceanothus cuneatus rigidus</i>	Monterey Ceanothus
	<i>Ericameria ericameria</i>	mock heather
	<i>Mimulus aurantiacus</i>	sticky monkey flower
	<i>Quercus agrifolia</i>	coast live oak
	<i>Salvia mellifera</i>	black sage
	<i>Toxicodendron diversilobum</i>	poison oak
Herbaceous species		
*	<i>Aira careophyllea</i>	silvery hairgrass
*	<i>Avena barbata</i>	slender wild oat
*	<i>Bromus diandrus</i>	ripgut brome
*	<i>Bromus madritensis</i>	red brome
	<i>Cardionema ramosissimum</i>	sand mat
	<i>Carex brevicaulis</i>	short-stemmed sedge
	<i>Chorizanthe pungens pungens</i>	Monterey spineflower
	<i>Crassula connata</i>	sand pygmyweed
	<i>Eriophyllum confertiflorum</i>	golden yarrow
*	<i>Erodium species</i>	filaree species
*	<i>Filago gallica</i>	narrow-leaved filago
	<i>Galium californica</i>	California bedstraw
	<i>Galium porrigens</i>	climbing bedstraw
	<i>Gnaphalium californicum</i>	California cudweed
	<i>Helianthemum scoparius</i>	rush rose
*	<i>Hypochaeris glabra</i>	smooth cat's ear
	<i>Lessingia filaginifolia</i>	common Lessingia
	<i>Lotus heermannii</i>	Heermann's lotus
	<i>Lotus scoparius var. scoparius</i>	deerweed
	<i>Lotus strigosus spp. parviloba</i>	Bishop's lotus
	<i>Marah fabaceus</i>	wild cucumber
	<i>Navarretia hamata</i>	hooked Navarretia
	<i>Plantago erecta</i>	California plantain
	<i>Psilocarphus tenellus var. globiferous</i>	round woolly marbles
*	<i>Rumex acetosella</i>	sheep sorrel
*	<i>Vulpia myurus</i>	rattail fescue

* non-native species

Table 2-3
List of plant species encountered in HA-22 remediation area

	Scientific Name	Common Name
Shrub species		
	<i>Adenostoma fasciculatum</i>	chamise
	<i>Arctostaphylos pumila</i>	sandmat manzanita
	<i>Artemesia pycnocephala</i>	beach sagewort
	<i>Arctostaphylos t. tomentosa</i>	shaggy barked manzanita
	<i>Baccharis pilularis</i>	coyote brush
*	<i>Carpobrotus edulis</i>	iceplant
	<i>Ceanothus cuneatus rigidus</i>	Monterey Ceanothus
*	<i>Cortaderia jubata</i>	pampas grass
	<i>Ericameria ericameria</i>	mock heather
	<i>Helianthemum scoparius</i>	rush rose
	<i>Horkelia cuneata spp. cuneata</i>	wedge-leaved Horkelia
	<i>Lotus scoparius var. scoparius</i>	deer weed
	<i>Lupinus chamissonis</i>	silver bush lupine
	<i>Mimulus aurantiacus</i>	sticky monkey flower
	<i>Salvia mellifera</i>	black sage
	<i>Symphoricarpos mollis</i>	creeping snowberry
	<i>Toxicodendron diversilobum</i>	poison oak
Herbaceous species		
	<i>Achillea millefolium</i>	white yarrow
	<i>Amsinckia sp.</i>	fiddleneck
	<i>Apiastrum angustifolium</i>	wild celery
*	<i>Bromus madritensis</i>	red brome
	<i>Camissonia contorta</i>	contorted primrose
	<i>Chorizanthe diffusa</i>	diffuse spineflower
	<i>Chorizanthe pungens pungens</i>	Monterey spineflower
	<i>Corythogyne (Lessingia) filaginifolia</i>	California aster
	<i>Croton californicus</i>	California croton
	<i>Dudleya sp.</i>	live forever
	<i>Eriastrum virgatum</i>	virgate eriastrum
	<i>Eriophyllum confertiflorum</i>	golden yarrow
*	<i>Erodium spp.</i>	filaree
	<i>Lotus scoparius var. scoparius</i>	deerweed
	<i>Lotus strigosus spp. parviflora</i>	Bishop's lotus
	<i>Navarretia hamata</i>	hooked Navarretia
	<i>Plagiobothrys sp.</i>	popcorn flower

* non-native species

Table 2-4a
HA-26 remediation site: Vegetation transect data summary, showing shrub species percent cover in 5 transects.

Species Code	Scientific name	Common name	Percent Cover						Aver. Cover %
			T1	T2	T3	T4	T5	Range (%)	
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy barked manzanita	22.2	51.6	50.2	41.0	49.0	22.2 - 51.6	42.8
b.g		bare ground	33.4	32.2	19.4	29.2	14.8	14.8 - 33.4	25.8
ADFA	<i>Adenostoma fasciculatum</i>	chamise	31.4	7.4	10.8	22.4	13.8	7.4 - 31.4	17.2
SAME	<i>Salvia mellifera</i>	black sage	2.0	4.0	17.8	6.4	5.4	4 - 17.8	7.1
CEDE	<i>Ceanothus dentatus</i>	dwarf Ceanothus	4.2	1.6	2.0	5.6	15.0	1.6 - 15.0	5.7
ARPU	<i>Arctostaphylos pumila</i>	sandmat manzanita			5.0	5.2	1.6	1.6 - 5	3.9
LECA	<i>Lepechinia calycina</i>	pitcher sage	11.6		1.0	0.6	2.4	1.0 - 11.6	3.9
CERI	<i>Ceanothus cuneatus rigidus</i>	Monterey Ceanothus		0.6	6.6	0.6	0.6	0.6 - 6.6	2.1
ERFA	<i>Ericameria fasciculata</i>	Eastwood's golden bush		1.8				1.8	1.8
TODI	<i>Toxicodendron diversilobum</i>	poison oak					0.6	0.6	0.6
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey flower	0.6	0.2				0.2 - 0.6	0.4
Herb		herbaceous species	0.0	0.2	0.0	0.0	0.0	0 - 0.2	0.0
		Total cover	72.0	67.4	93.4	81.8	90.4		

Table 2-4b
List of plant species encountered in HA-26 remediation area.

	Scientific Name	Common Name
Shrub Species		
	<i>Arctostaphylos t. tomentosa</i>	shaggy barked manzanita
	<i>Adenostoma fasciculatum</i>	chamise
	<i>Arctostaphylos pumila</i>	sandmat manzanita
	<i>Salvia mellifera</i>	black sage
	<i>Ceanothus dentatus</i>	dwarf Ceanothus
	<i>Ceanothus cuneatus rigidus</i>	Monterey Ceanothus
	<i>Baccharis pilularis</i>	coyote brush
	<i>Lotus scoparius</i>	deer weed
*	<i>Cortaderia jubata</i>	pampas grass
	<i>Ericameria fasciculata</i>	Eastwood's golden bush
	<i>Mimulus aurantiacus</i>	sticky monkey flower
	<i>Lepechinia calycina</i>	pitcher sage
	<i>Garrya elliptica</i>	silk tassel
	<i>Quercus agrifolia</i>	coast live oak
	<i>Ceanothus dentatus</i>	dwarf Ceanothus
	<i>Heteromeles arbutifolia</i>	toyon
	<i>Toxicodendron diversilobum</i>	poison oak
Herbaceous species		
	<i>Carex brevicaulis</i>	short-stemmed sedge
	<i>Chorizanthe diffusa</i>	diffuse spineflower
	<i>Corythogyne (Lessingia) filaginifolia</i>	California aster
	<i>Eriophyllum confertiflorum</i>	golden yarrow
	<i>Gnaphalium californicum</i>	California cudweed
	<i>Helianthemum scoparius</i>	rush rose
	<i>Horkelia c. cuneata</i>	wedge leaved horkelia
	<i>Navarretia hamata</i>	hooked Navarretia

* non-native species

Table 2-5
List of plant species encountered in HA-27 remediation area

	Scientific Name	Common Name
Shrub species		
	<i>Arctostaphylos montereyensis</i>	Monterey manzanita
	<i>Arctostaphylos pumila</i>	sandmat manzanita
	<i>Arctostaphylos t. tomentosa</i>	shaggy barked manzanita
	<i>Baccharis pilularis</i>	coyote brush
*	<i>Carpobrotus edulis</i>	iceplant
	<i>Ceanothus cuneatus rigidus</i>	Monterey Ceanothus
	<i>Ceanothus dentatus</i>	dwarf Ceanothus
	<i>Lepechinia calycina</i>	pitcher sage
	<i>Mimulus aurantiacus</i>	sticky monkey flower
	<i>Quercus agrifolia</i>	coast live oak
	<i>Salvia mellifera</i>	black sage
Herbaceous species		
	<i>Carex brevicaulis</i>	short-stemmed sedge
	<i>Chorizanthe diffusa</i>	diffuse spineflower
	<i>Helianthemum scoparius</i>	rush rose
	<i>Horkelia cuneata spp. cuneata</i>	wedge-leaved Horkelia
	<i>Lotus scoparius var. scoparius</i>	deerweed

* non-native species

Table 2-6a. HA-28 Soil remediation site: Vegetation transect data summary, showing shrub species cover in 2 transects.

Species Code	Scientific Name	Common Name	Percent Cover			
			T1	T2	Range % cover	Average % cover
ARPU	<i>Arctostaphylos pumila</i>	sandmat manzanita	25.8	45.0	25.8 - 45	35.4
B.G		bare ground	40.0	21.8	21.8 - 40	30.9
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy barked manzanita	22.0	22.3	22.0 - 22.3	22.2
ADFA	<i>Adenostoma fasciculatum</i>	chamise	6.7	3.5	3.5 - 6.7	5.1
SAME	<i>Salvia mellifera</i>	black sage	4.0	2.0	2.0 - 4.0	3.0
ARMO	<i>Arctostaphylos montereyensis</i>	Monterey manzanita	0.0	3.8	0 - 3.8	1.9
CERI	<i>Ceanothus cuneatus rigidus</i>	Monterey Ceanothus	0.0	1.5	0 - 1.5	0.8
HOCU	<i>Horkelia c. cuneata</i>	Horkelia	0.2		0.2	0.2
Herb		herbaceous species	0.0	0.0	0.0	0.0
		Total Cover	58.6	78.1		

Table 2-6b
List of plant species encountered in HA-28 remediation area.

	Scientific Name	Common Name
Shrub Species		
	<i>Adenostoma fasciculatum</i>	chamise
	<i>Arctostaphylos hookeri</i>	Hooker's manzanita
	<i>Arctostaphylos montereyensis</i>	Monterey manzanita
	<i>Arctostaphylos pumila</i>	sandmat manzanita
	<i>Arctostaphylos t. tomentosa</i>	shaggy barked manzanita
	<i>Baccharis pilularis</i>	coyote brush
	<i>Ceanothus cuneatus rigidus</i>	Monterey Ceanothus
	<i>Cortaderia jubata</i>	pampas grass
	<i>Ericameria fasciculata</i>	Eastwood's golden bush
	<i>Salvia mellifera</i>	black sage
Herbaceous Species		
	<i>Camissonia micrantha</i>	small evening primrose
	<i>Cardionema ramosissimum</i>	sand mat
	<i>Carex brevicaulus</i>	short stemmed sedge
	<i>Castilleja foliolosa</i>	woolly indian paintbrush
	<i>Chorizanthe diffusa</i>	diffuse spineflower
	<i>Chorizanthe pungens var. pungens</i>	Monterey spineflower
	<i>Corethrogynne filaginifolia</i>	beach aster
	<i>Crassula connata</i>	sand pigmyweed
	<i>Eriophyllum confertiflorum</i>	golden yarrow
*	<i>Erodium sp.</i>	filaree
	<i>Helianthemum scoparius</i>	rush rose
	<i>Heterotheca grandiflora</i>	telegraph weed
	<i>Horkelia c. cuneata</i>	Horkelia
	<i>Lessingia glandulifera var. pectinata</i>	valley lessingia
	<i>Lomatium parvifolium</i>	coast lomatium
	<i>Lotus scoparius</i>	deer weed
	<i>Navarretia hamata</i>	hooked navarettia
	<i>Pedicularis densiflora</i>	indian warrior
	<i>Phacelia douglasii</i>	Douglas' phacelia
	<i>Plantago erecta</i>	California plantain
	<i>Zigadenus fremontii</i>	Fremont's star lily

* non-native species

Table 2-7a
HA-29 remediation site: Vegetation transect summary data, showing shrub species percent cover in 4 transects.

Sp.Code	Scientific name	Common name	Percent Cover					Average % cover
			T1	T2	T3	T4	Range % cover	
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy barked manzanita	29.6	42	55.4	26	26 - 55.4	38.3
ARPU	<i>Arctostaphylos pumila</i>	sandmat manzanita	36.4	24.2	5.4	41.8	5.4 - 41.8	27.0
B.G		bare ground	21.2	12.6	14.4	19.2	12.6 - 21.2	16.9
*COJU	<i>Cortaderia jubata</i>	pampas grass	16.8	4.2			4.2 - 16.8	10.5
SAME	<i>Salvia mellifera</i>	black sage	0.2	18.2	11.6	4.2	0.2 - 18.2	8.6
ARMO	<i>Arctostaphylos montereyensis</i>	Monterey manzanita		5.8	8.8		5.8 - 8.8	7.3
ADFA	<i>Adenostoma fasciculatum</i>	chamise			5.4	0.6	0.6 - 5.4	3.0
ARHO	<i>Arctostaphylos hookeri</i>	Hooker's manzanita				2.2	2.2	2.2
ERFA	<i>Ericameria fasciculata</i>	Eastwood's golden bush				1.6	1.6	1.6
Herb		herbaceous species	1.8			1.4	1.4 - 1.8	1.6
PO	<i>Toxicodendron diversilobum</i>	Poison Oak		0.2	0.4	4	0.2 - 4	1.5
BAPI	<i>Baccharis pilularis</i>	coyote brush		0.6	0.4		0.4 - 0.6	0.5
CERI	<i>Ceanothus cuneatus rigidus</i>	Monterey Ceanothus			0.2		0.2	0.2
		Total cover	84.8	95.2	87.6	80.2		

Table 2-7b
List of plant species encountered in HA-29 remediation area.

	Scientific Name	Common Name
Shrub species		
	<i>Adenostoma fasciculatum</i>	chamise
	<i>Arctostaphylos hookeri</i>	Hooker's manzanita
	<i>Arctostaphylos montereyensis</i>	Monterey manzanita
	<i>Arctostaphylos pumila</i>	sandmat manzanita
	<i>Arctostaphylos t. tomentosa</i>	shaggy barked manzanita
	<i>Baccharis pilularis</i>	coyote brush
*	<i>Carpobrotus chilensis</i>	ice plant
	<i>Ceanothus cuneatus rigidus</i>	Monterey Ceanothus
	<i>Ceanothus dentatus</i>	dwarf Ceanothus
*	<i>Cortaderia jubata</i>	pampas grass
	<i>Ericameria fasciculata</i>	Eastwood's golden bush
	<i>Garrya elliptica</i>	silk tassel
	<i>Heteromeles arbutifolia</i>	toyon
	<i>Lepechinia calycina</i>	pitcher sage
	<i>Mimulus aurantiacus</i>	sticky monkey flower
	<i>Quercus agrifolia</i>	coast live oak
	<i>Salvia mellifera</i>	black sage
	<i>Toxicodendron diversilobum</i>	poison oak
Herbaceous species		
*	<i>Aira careophyllea</i>	silvery hairgrass
*	<i>Anagallis arvensis</i>	scarlet pimpernel
	<i>Corythogyne (Lessingia) filaginifolia</i>	California aster
	<i>Eriophyllum confertiflorum</i>	golden yarrow
*	<i>Gnaphalium albo-luteum</i>	weedy cudweed
	<i>Helianthemum scoparius</i>	rush rose
	<i>Horkelia c. cuneata</i>	Wedge-leaved Horkelia
	<i>Lotus scoparius</i>	deer weed
	<i>Navarretia hamata</i>	hooked Navarretia
*	<i>Rumex acetosella</i>	sheep sorrel
	<i>Zigadenus fremontii</i>	Fremont's star lily

* non-native species

Table 2-8
List of plant species encountered in HA-33 remediation area

	Scientific Name	Common Name
Shrub species		
	<i>Arctostaphylos montereyensis</i>	Monterey manzanita
	<i>Arctostaphylos t. tomentosa</i>	shaggy barked manzanita
	<i>Baccharis pilularis</i>	coyote brush
*	<i>Carpobrotus edulis</i>	iceplant
	<i>Ceanothus cuneatus rigidus</i>	Monterey Ceanothus
	<i>Ceanothus dentatus</i>	dwarf Ceanothus
*	<i>Cortaderia jubata</i>	jubata (pampas) grass
	<i>Helianthemum scoparius</i>	rush rose
	<i>Heteromeles arbutifolia</i>	toyon
	<i>Horkelia cuneata spp. cuneata</i>	wedge-leaved Horkelia
	<i>Quercus agrifolia</i>	coast live oak
	<i>Salix lasiolepis</i>	shining willow
	<i>Salvia mellifera</i>	black sage
Herbaceous species		
	<i>Achillea millefolium</i>	white yarrow
*	<i>Aira careophyllea</i>	silvery hairgrass
*	<i>Anagallis arvensis</i>	scarlet pimpernel
*	<i>Bromus hordaceus</i>	soft chess
*	<i>Bromus madritensis</i>	red brome
	<i>Cardionema ramosissimum</i>	sand mat
	<i>Carex brevicaulis</i>	short-stemmed sedge
	<i>Croton californicus</i>	California croton
	<i>Eriophyllum confertiflorum</i>	golden yarrow
*	<i>Filago gallica</i>	narrow-leaved Filago
*	<i>Hypochaeris glabra</i>	smooth cat's ear
*	<i>Hypochaeris radicata</i>	hairy cat's ear
	<i>Lessingia filaginifolia</i>	common Lessingia
	<i>Nassella sp.</i>	needlegrass species
	<i>Plantago erecta</i>	California plantain

* non-native species

Table 2-9
List of plant species encountered in HA-34 remediation area

	Scientific Name	Common Name
Shrub species		
	<i>Adenostoma fasciculatum</i>	chamise
	<i>Artemesia californica</i>	California sagebrush
	<i>Arctostaphylos hookeri</i>	Hooker's manzanita
	<i>Arctostaphylos montereyensis</i>	Monterey manzanita
	<i>Arctostaphylos t. tomentosa</i>	shaggy barked manzanita
	<i>Baccharis pilularis</i>	coyote brush
*	<i>Carpobrotus edulis</i>	iceplant
	<i>Ceanothus cuneatus rigidus</i>	Monterey Ceanothus
	<i>Heteromeles arbutifolia</i>	toyon
	<i>Lupinus arboreus</i>	yellow bush lupine
	<i>Mimulus aurantiacus</i>	sticky monkey flower
	<i>Quercus agrifolia</i>	coast live oak
	<i>Salix lasiolepis</i>	shining willow
	<i>Salvia mellifera</i>	black sage
	<i>Toxicodendron diversilobum</i>	poison oak
	<i>Symporicarphus mollis</i>	creeping snowberry
Herbaceous species		
	<i>Achillea millefolium</i>	white yarrow
	<i>Agoseris grandiflora</i>	large-flowered dandelion
*	<i>Aira careophyllea</i>	silvery hairgrass
*	<i>Anagallis arvensis</i>	scarlet pimpernel
	<i>Apiastrum angustifolium</i>	wild celery
*	<i>Avena barbata</i>	slender wild oat
*	<i>Bromus hordaceus</i>	soft chess
*	<i>Bromus madritensis</i>	red brome
	<i>Calystegia subacaulis spp. subacaulis</i>	hill morning-glory
	<i>Cardionema ramosissimum</i>	sand mat
	<i>Carex brevicaulis</i>	short-stemmed sedge
	<i>Carex sp.</i>	
*	<i>Centaurea melitensis</i>	tocalote
	<i>Chlorogalum pomeridianum var. pomeridianum</i>	soap root
	<i>Chorizanthe diffusa</i>	diffuse spineflower
	<i>Cirsium occidentale var. occidentale</i>	cobweb thistle
	<i>Corythroyne (Lessingia) filaginifolia var. filaginifolia</i>	common Lessingia
	<i>Dichelostoma capitatum spp. capitatum</i>	blue dicks
	<i>Elymus glaucus</i>	blue wild rye
	<i>Eriogonum nudum var. auriculatum</i>	naked buckwheat
	<i>Eriophyllum confertiflorum</i>	golden yarrow
*	<i>Erodium species</i>	filaree species
	<i>Eschscholzia californica</i>	California poppy
	<i>Galium porrigens</i>	climbing Bedstraw
*	<i>Gnaphalium albo-luteum</i>	weedy cudweed
	<i>Gnaphalium californicum</i>	California cudweed
	<i>Gnaphalium sp.</i>	cudweed

Table 2-9
List of plant species encountered in HA-34 remediation area

	<i>Helianthemum scoparius</i>	rush rose
*	<i>Heliotropium curassavicum</i>	Chinese pusley
	<i>Heterotheca grandiflora</i>	telegraph weed
	<i>Horkelia cuneata spp. cuneata</i>	wedge-leaved Horkelia
	<i>Juncus effusus</i>	common rush
	<i>Juncus patens</i>	spreading rush
	<i>Juncus phaocephalus</i>	brown-headed rush
	<i>Juncus sp.</i>	rush
	<i>Koeleria macrantha</i>	June grass
*	<i>Lactuca sp.</i>	prickly lettuce
	<i>Lotus humistratus</i>	short-podded Lotus
	<i>Lotus scoparius var. scoparius</i>	deer weed
	<i>Luzula comosa</i>	common wood rush
	<i>Madia sativa</i>	coast tarweed
	<i>Marah fabaceus</i>	wild cucumber
	<i>Nassella lepida</i>	foothill needlegrass
*	<i>Rumex acetosella</i>	sheep sorrel
	<i>Sanicula crassicaulis</i>	gambleweed
	<i>Silene multinervia</i>	many-nerved catchfly
	<i>Solanum umbelliferum</i>	blue witch
*	<i>Trifolium hirtum</i>	rose clover
	<i>Trileleia ixioides</i>	coast pretty face
	<i>Vicia sp.</i>	spring vetch
*	<i>Vulpia myurus</i>	rattail fescue

* non-native species

Table 2-10a. HA-36 Soil remediation site: Vegetation transect data summary, showing shrub species cover in 3 transects.

Sp. Code	Scientific Name	Common Name	Percent Cover			Range % Cover	Average % Cover
			T1	T2	T3		
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy barked manzanita	30.6	47.2	51.6	29.8 - 51.6	43.1
B.G		bare ground	27.8	13.4	16.2	13.4 - 27.8	19.1
ADFA	<i>Adenostoma fasciculatum</i>	chamise	19.4	9.2	10.2	10.2 - 28.0	12.9
CERI	<i>Ceanothus cuneatus rigidus</i>	Monterey Ceanothus	4.4	21.8	9.2	2.4 - 21.8	11.8
ARMO	<i>Arctostaphylos montereyensis</i>	Monterey manzanita	11.8	3.2	12.2	3.2 - 12.2	9.1
SAME	<i>Salvia mellifera</i>	black sage	5.4	0.8	5.6	0.8 - 5.6	3.9
Herb		herbaceous species	6	0.2		0.2 - 6.0	3.1
GAEL	<i>Garrya elliptica</i>	silk tassel			2.8	2.8	2.8
CETH	<i>Ceanothus thyrsiflorus</i>	blue blossom		2.6		2.6	2.6
ARPU	<i>Arctostaphylos pumila</i>	sandmat manzanita			2.2	2.2	2.2
RHCA	<i>Rhamnus californica</i>	coffee berry	1.4			1.4	1.4
BAPI	<i>Baccharis pilularis</i>	coyote brush			0.6	0.6	0.6
		Total Vegetation Cover	79.0	85.0	93.8		

Table 2-10b
List of plant species encountered in HA-36 remediation area

	Scientific Name	Common Name
Shrub species		
	<i>Arctostaphylos pumila</i>	sandmat manzanita
	<i>Adenostoma fasciculatum</i>	chamise
	<i>Arctostaphylos hookeri</i>	Hooker's manzanita
	<i>Arctostaphylos montereyensis</i>	Monterey manzanita
	<i>Arctostaphylos t. tomentosa</i>	shaggy barked manzanita
	<i>Baccharis pilularis</i>	coyote brush
	<i>Ceanothus cuneatus rigidus</i>	Monterey Ceanothus
	<i>Ceanothus dentatus</i>	dwarf Ceanothus
	<i>Ceanothus thyrsiflorus</i>	blue blossom
*	<i>Cortaderia jubata</i>	pampas (jubata) grass
	<i>Ericameria fasciculata</i>	Eastwood's golden bush
	<i>Eriodictyon californicum</i>	California yerba santa
	<i>Garrya elliptica</i>	silk tassel
	<i>Lepechinia calycina</i>	pitcher sage
	<i>Mimulus aurantiacus</i>	sticky monkey flower
	<i>Quercus agrifolia</i>	coast live oak
	<i>Rhamnus californica</i>	coffee berry
	<i>Salvia mellifera</i>	black sage
	<i>Symphoricarphus mollis</i>	creeping snowberry
Herbaceous species		
	<i>Carex brevicaulis</i>	short-stemmed sedge
	<i>Corythogyne (Lessingia) filaginifolia</i>	California aster
	<i>Eriophyllum confertiflorum</i>	golden yarrow
	<i>Helianthemum scoparius</i>	rush rose
	<i>Helianthemun scoparius</i>	rush rose
	<i>Horkelia cuneata spp. cuneata</i>	wedge-leaved Horkelia
	<i>Polygala californica</i>	California milkwort
	<i>Pteridium aquilinum var. pubescens</i>	bracken fern

* non-native species

Table 2-11a
HA-37 Soil remediation site: Vegetation transect data summary, showing shrub species cover in 3 transects

Sp. Code	Scientific Name	Common Name	Percent Cover			Range % Cover	Average % Cover
			T1	T2	T3		
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy barked manzanita	64.2	67.4	66.6	64.2 - 67.4	66.1
B.G		bare ground	15.2	16.4	17	15.2 - 17	16.2
ADFA	<i>Adenostoma fasciculatum</i>	chamise	12.2	7.4	8	7.4 - 12.2	9.2
SAME	<i>Salvia mellifera</i>	black sage	1.4	6.4	7.6	1.4 - 7.6	5.1
GAEL	<i>Garrya elliptica</i>	silk tassel	13.6	1.2	0.6	0.6 - 13.6	5.1
ARMO	<i>Arcostaphylos montereyensis</i>	Monterey manzanita			4.4	4.4	4.4
CERI	<i>Ceanothus cuneatus rigidus</i>	Monterey Ceanothus	1.2	2.6		1.2 - 2.6	1.9
ARPU	<i>Arctostaphylos pumila</i>	sandmat manzanita			1.8	1.8	1.8
LECA	<i>Lepechinia calycina</i>	pitcher sage	1			1	1.0
ARHO	<i>Arctostaphylos hookeri</i>	Hooker's manzanita	0.6	1.0		1 - 0.6	0.8
BAPI	<i>Baccharis pilularis</i>	coyote brush			0.6	0.6	0.6
Herb		herbaceous species	1	0.2		1 - 0.2	0.6
		Total Vegetation Cover	95.2	86.2	89.6		

Table 2-11b
List of plant species encountered in HA-37 remediation area

Species Encountered in Disturbed Range Area and Grassland		
Shrub species		
	<i>Adenostoma fasciculatum</i>	chamise
	<i>Arctostaphylos hookeri</i>	Hooker's manzanita
	<i>Arctostaphylos montereyensis</i>	Monterey manzanita
	<i>Arctostaphylos pumila</i>	sandmat manzanita
	<i>Arctostaphylos t. tomentosa</i>	shaggy barked manzanita
	<i>Baccharis pilularis</i>	coyote brush
	<i>Ceanothus cuneatus rigidus</i>	Monterey Ceanothus
	<i>Ceanothus dentatus</i>	dwarf Ceanothus
*	<i>Cortaderia jubata</i>	Jubata (pampas) grass
	<i>Ericameria fasciculata</i>	Eastwood's golden bush
	<i>Garrya elliptica</i>	silk tassel
	<i>Heteromeles arbutifolia</i>	toyon
	<i>Lepechinia calycina</i>	pitcher sage
	<i>Mimulus aurantiacus</i>	sticky monkey flower
	<i>Quercus agrifolia</i>	coast live oak
	<i>Salix lasiolepis</i>	arroyo willow
	<i>Salvia mellifera</i>	black sage
Herbaceous species		
	<i>Achillea millefolium</i>	white yarrow
*	<i>Aira caryophyllea</i>	silvery hair-grass
*	<i>Anagallis arvensis</i>	scarlet pimpernel
*	<i>Avena barbata</i>	slender wild oat
*	<i>Bromus diandrus</i>	ripgut brome
*	<i>Bromus hordeaceus</i>	soft chess
*	<i>Bromus madritensis</i>	red brome
	<i>Camissonia sp.</i>	evening primrose
	<i>Carex brevicaulis</i>	short stemmed sedge
	<i>Castilleja foliolosa</i>	Indian paintbrush
*	<i>Carpobrotus chilensis</i>	ice plant
	<i>Chorizanthe diffusa</i>	diffuse spineflower
	<i>Corythogyne (Lessingia) filaginifolia</i>	California aster
	<i>Danthonia californica</i>	California oat-grass
	<i>Dichelostemma capitatum spp. capitatum</i>	blue dicks
	<i>Distichlis spicata</i>	salt grass
	<i>Eriophyllum confertiflorum</i>	golden yarrow
*	<i>Erodium spp.</i>	filaree
	<i>Eschscholzia californica</i>	California poppy
*	<i>Filago gallica</i>	narrow-leaved filago
	<i>Galium porrigens</i>	climbing Bedstraw
*	<i>Genista sp.</i>	broom
	<i>Gnaphalium californicum</i>	California everlasting
	<i>Helianthemum scoparius</i>	rush rose
	<i>Hemizonia sp.</i>	tarweed
	<i>Heterotheca grandiflora</i>	telegraph weed

Table 2-11b
List of plant species encountered in HA-37 remediation area

	<i>Horkelia c. cuneata</i>	wedge-leaved Horkelia
*	<i>Hypochaeris spp.</i>	cats' ear
	<i>Lomatium parvifolium</i>	coast parsnip
	<i>Lotus scoparius</i>	deerweed
	<i>Juncus sp.</i>	rush
	<i>Navarettia atractyloides</i>	navarettia
*	<i>Plantago coronopus</i>	cut-leaved plantain
	<i>Plantago erecta</i>	California plantain
	<i>Potentilla glandulosa</i>	sticky cinqufoil
*	<i>Rumex acetosella</i>	sheep sorrel
	<i>Sisyrinchium bellum</i>	blue-eyed grass
*	<i>Trifolium hirtum</i>	rose clover
	<i>Vicia sp.</i>	spring vetch
*	<i>Vulpia myuros</i>	rattail fescue

Species Encountered in Central Maritime Chaparral

Shrub species		
	<i>Adenostoma fasciculatum</i>	chamise
	<i>Arctostaphylos hookeri</i>	Hooker's manzanita
	<i>Arctostaphylos montereyensis</i>	Monterey manzanita
	<i>Arctostaphylos pumila</i>	sandmat manzanita
	<i>Arctostaphylos t. tomentosa</i>	shaggy barked manzanita
	<i>Baccharis pilularis</i>	coyote brush
	<i>Ceanothus cuneatus rigidus</i>	Monterey Ceanothus
*	<i>Cortaderia jubata</i>	Jubata (pampas) grass
	<i>Ericameria fasciculata</i>	Eastwood's golden bush
	<i>Garrya elliptica</i>	silk tassel
	<i>Lepechinia calycina</i>	pitcher sage
	<i>Mimulus aurantiacus</i>	sticky monkey flower
	<i>Salvia mellifera</i>	black sage
Herbaceous species		
	<i>Carex brevicaulus</i>	short stemmed sedge
	<i>Eriophyllum confertiflorum</i>	golden yarrow
	<i>Gnaphalium californicum</i>	California everlasting
	<i>Galium porrigens</i>	climbing bedstraw
	<i>Helianthemum scoparius</i>	rush rose
	<i>Horkelia c. cuneata</i>	wedge-leaved Horkelia
	<i>Pedicularis densiflora</i>	Indian warrior

* non-native species

Table 2-12a

HA-39/40 remediation site vegetation data summary for Transects 1 through 6 (5-10 quadrats per transect). Species are ranked by percent cover.

TRANSECT 1 (location is shown on Figure 2-13)								
Scientific Name	Common Name	Percent Shrub cover						
Shrub Cover								
<i>Baccharis pilularis</i>	coyote bush							
<i>Lupinus arboreus</i>	yellow bush lupine							
	bare ground							
		Total Shrub Cover						
		6.6						
		Average % Cover of Herbaceous Species						
Quadrat #		1a	1b	1c	1d	1e	1f	
Herbaceous Species Cover								
thatch	thatch	32	28	52	80	36	0	48.0
* <i>Bromus diandrus</i>	ripgut brome	12	16	24	0	24	0	13.3
bare ground	bare ground	24	24	8	4	4	12	10.7
<i>Achillea millefolium</i>	white yarrow	0	0	0	0	24	0	6.0
* <i>Bromus hordaceus</i>	soft chess	8	2	1	16	<1	0	5.4
* <i>Erodium botrys</i>	long-beaked filaree	24	2	4	0	0	0	5.0
<i>Vulpia myurus</i>	rattail fescue	0	0	0	0	0	0	4.0
<i>Vicia sp.</i>	spring vetch	0	<1	0	0	0	0	4.0
* <i>Rumex acetosella</i>	sheep sorrel	0	20	0	0	0	0	3.3
* <i>Hypochoeris sp.</i>	cat's ear	0	4	8	0	4	0	2.7
<i>Eschscholzia californica</i>	California poppy	<1	<1	1	0	8	0	2.3
<i>Lupinus arboreus</i>	yellow bush lupine	0	4	0	0	0	0	0.7
* <i>Aira caryophyllea</i>	silvery hairgrass	<1	0	1	0	0	0	0.2
* <i>Avena fatua</i>	slender wild oat	0	0	1	0	0	24	0.2
* <i>Cerastium sp.</i>	chickweed	0	0	0	0	<1	60	<1
* <i>Geranium sp.</i>	geranium	<1	0	0	0	0	4	<1
<i>Plectritis sp.</i>	valerian	<1	0	0	0	0	0	<1
<i>Solidago sp.</i>	golden rod	<1	0	0	0	<1	0	<1
* <i>Thysanocarpus curvipes</i>	fringe pod	<1	0	0	0	0	0	<1

* non-native species

Table 2-12a
HA-39/40 remediation site vegetation data summary for Transects 1 through 6 (5-10 quadrats per transect). Species are ranked by percent cover.

TRANSECT 2 (location is shown on Figure 2-13)													
Scientific Name	Common Name	Quadrat #	Average % of Herbaceous Cover										
			2a	2b	2c	2d	2e	2f	2g	2h	2i	2j	
thatch	thatch		48	76	28	16	72	76	36	44	40	36	47.2
bare ground	bare ground		48	16	56	72	4	0	36	36	0	24	29.2
* <i>Bromus diandrus</i>	ripgut brome		0	<1	4	<1	8	12	24	4	48	20	15.0
* <i>Rumex acetosella</i>	sheep sorrel		0	<1	<1	<1	16	12	<1	12	4	4	8.0
<i>Eschscholzia californica</i>	California poppy		0	<1	0	0	0	<1	<1	<1	8	16	4.0
<i>Heterotheca grandiflora</i>	telegraph weed		<1	<1	<1	<1	0	0	0	0	0	0	4.0
* <i>Erodium cicutarium</i>	filaree		<1	<1	<1	<1	0	0	<1	<1	4	<1	1.3
<i>Lupinus nanus</i>	sky lupine		0	0	0	0	<1	8	0	<1	0	<1	1.1
<i>Croton californica</i>	dove weed		0	0	0	8	0	0	0	0	0	0	0.8
<i>Chorizanthe pungens</i> var. <i>pungens</i>	Monterey spineflower		0	<1	6	<1	0	0	0	0	0	0	0.8
* <i>Aira caryophyllea</i>	silvery hairgrass		<1	4	<1	<1	0	0	0	0	0	0	0.4
* <i>Bromus hordeaceus</i>	soft chess		0	<1	0	<1	<1	<1	<1	<1	<1	0	0.4
* <i>Hypochaeris</i> sp.	cat's ear		<1	<1	0	0	<1	<1	<1	<1	0	0	0.4
<i>Achillea millefolium</i>	white yarrow		0	0	0	0	0	0	0	0	0	<1	0.4
<i>Plantago erecta</i>	California plantain		0	0	<1	0	0	0	0	0	0	0	0.4
<i>Distichlis spicata</i>	salt grass		0	0	0	<1	0	0	0	0	0	0	0.4

* non-native species

Table 2-12a
HA-39/40 remediation site vegetation data summary for Transects 1 through 6 (5-10 quadrats per transect). Species are ranked by percent cover.

TRANSECT 3 (location is shown on Figure 2-13)							
Scientific Name	Common Name						
Shrub Cover		% Shrub cover					
Herbaceous species							
<i>Baccharis pilularis</i>	coyote bush						
<i>Lupinus arboreus</i>	yellow bush lupine						
		Total Shrub Cover					
Herbaceous Species Cover	Quadrat #	3a	3b	3c	3d	3e	Average % Cover of Herbaceous Species
thatch	thatch	56	52	44	48	20	44.0
* <i>Vulpia myurus</i>	rat tail fescue	20	0	0	32	20	14.4
<i>Achillea millefolium</i>	white yarrow	4	4	16	12	8	8.8
* <i>Bromus hordaceus</i>	soft chess	8	4	8	<1	<1	6.7
* <i>Rumex acetosella</i>	sheep sorrel	0	20	8	0	0	5.6
bare ground	bare ground	0	0	0	0	20	4.0
<i>Bromus carinatus</i>	California brome	0	0	0	0	20	4.0
* <i>Sonchus sp.</i>	sonchus	0	4	<1	0	0	3.2
* <i>Geranium sp.</i>	geranium	0	<1	0	4	0	1.0
<i>Lupinus chamissonis</i>	silver bush lupine	0	4	0	0	<1	1.0
* <i>Bromus diandrus</i>	ripgut brome	0	0	0	0	<1	1.0
* <i>Aira caryophyllea</i>	silvery hairgrass	0	0	0	0	<1	0.1
* <i>Hypochaeris sp.</i>	cat's ear	0	0	0	0	<1	0.1
<i>Eschscholzia californica</i>	California poppy	0	0	0	0	<1	0.1
<i>Lolium multiflorum</i>	Italian ryegrass	0	0	0	<1	0	0.1
<i>Lotus scoparius</i>	deer weed	<1	0	0	0	0	0.1
<i>Epilobium sp.</i>	sky lupine	<1	<1	0	0	0	0.1
<i>Apiastrum angustifolium</i>	wild celery	<1	0	0	0	0	0.1
<i>Sisyrinchium bellum</i>	blue-eyed grass	0	<1	<1	0	<1	0.1
* <i>Lactuca serriola</i>	prickly lettuce	0	0	16	0	0	0.1
<i>Solidago sp.</i>	golden rod	0	0	<1	0	<1	0.1

* non-native species

Table 2-12a
HA-39/40 remediation site vegetation data summary for Transects 1 through 6 (5-10 quadrats per transect). Species are ranked by percent cover.

TRANSECT 4 (location is shown on Figure 2-13)						
Scientific Name	Common Name	% Herbaceous/Shrub Cover				
Shrub Cover		% Herbaceous/Shrub Cover				
Herbaceous species						97.8
<i>Baccharis pilularis</i>	coyote brush					1.0
<i>Lupinus chamissonis</i>	silver bush lupine					0.2
<i>Quercus agrifolia</i>	coast live oak					0.6
<i>Toxicodendron diversilobum</i>	poison oak					0.8
		Total Shrub Cover				2.2
Herbaceous Species						
		Quadrat #	4a	4b	4c	4d
						Average % Cover of Herbaceous Species
* <i>Bromus diandrus</i>	ripgut brome	48	60	48	40	48.8
thatch	thatch	32	24	40	16	29.6
bare ground	bare ground	4	4	8	24	9.6
* <i>Vulpia myurus</i>	rat tail fescue	8	0	0	0	8.0
* <i>Bromus hordaceus</i>	soft chess	4	<1	0	0	4.0
* <i>Aira caryophyllea</i>	silvery hairgrass	<1	4	<1	<1	4.0
* <i>Hypochaeris sp.</i>	cat's ear	0	4	0	0	4.0
<i>Escholzia californica</i>	California poppy	0	<1	<1	16	0.4
<i>Heterotheca grandiflora</i>	telegraph weed	0	<1	0	0	0.1
<i>Epilobium sp.</i>	sky lupine	<1	0	0	0	0.1
* <i>Lolium multiflorum</i>	Italian ryegrass	0	0	<1	<1	0.1
<i>Clarkia sp.</i>	clarkia	0	0	<1	0	0.1
<i>Madia sp.</i>	madia	0	0	0	<1	0.1
<i>Lupinus nanus</i>	sky lupine	0	0	0	0	0.1
<i>Achillea millefolium</i>	white yarrow	<1	0	0	0	0.1
* <i>Rumex acetosella</i>	sheep sorrel	0	0	0	<1	0.1
* <i>Avena fatua</i>	wild oat	0	0	0	0	0.1
<i>Lupinus bicolor</i>	Lindley's annual lupine	<1	0	0	0	0.1

Table 2-12a
HA-39/40 remediation site vegetation data summary for Transects 1 through 6 (5-10 quadrats per transect). Species are ranked by percent cover.

TRANSECT 5 (location is shown on Figure 2-13)							
Scientific Name	Common Name	% Herbaceous/Shrub Cover					
Shrub Cover							
herbaceous species							
<i>Baccharis pilularis</i>	coyote brush						
bare ground							
		Total Shrub Cover					
Herbaceous Species	Quadrat #	1a	1b	1c	1d	1e	Average % Cover of Herbaceous Species
thatch		64	56	44	40	56	0
<i>Carex praegracilis</i>	clustered field sedge	36	40	40	20	0	0
* <i>Bromus diandrus</i>	ripgut brome	0	4	12	8	36	0
bare ground	bare ground	0	0	4	16	8	0
* <i>Vulpia myurus</i>	rat tail fescue	0	0	0	12	0	0
* <i>Rumex acetosella</i>	sheep sorrel	0	<1	<1	0	0	0
* <i>Erodium sp</i>	filaree	0	0	0	<1	<1	0
* <i>Hypochaeris sp.</i>	cat's ear	0	0	0	<1	0	0

Table 2-12b
List of plant species encountered in HA-39/40 remediation area.

	Scientific Name	Common Name
Shrub species		
	<i>Arctostaphylos pumila</i>	sandmat manzanita
	<i>Baccharis pilularis</i>	coyote brush
	<i>Horkelia cuneata spp. cuneata</i>	wedge-leaved Horkelia
	<i>Lupinus arboreus</i>	yellow bush lupine
	<i>Lupinus chamissonis</i>	silver bush lupine
	<i>Mimulus aurantiacus</i>	sticky monkey flower
	<i>Quercus agrifolia</i>	coast live oak
	<i>Ribes speciosum</i>	fuchsia-flowered gooseberry
	<i>Symphoricarphus mollis</i>	creeping snowberry
	<i>Toxicodendron diversilobum</i>	poison oak
Herbaceous species		
	<i>Achillea millefolium</i>	white yarrow
	<i>Agoseris grandiflora</i>	large-flowered dandelion
*	<i>Aira careophyllea</i>	silvery hairgrass
	<i>Apiastrum angustifolium</i>	wild celery
	<i>Artemesia douglasiana</i>	mugwort
*	<i>Avena barbata</i>	slender wild oat
	<i>Bromus carinatus</i>	California brome
*	<i>Bromus diandrus</i>	ripgut brome
*	<i>Bromus hordaceus</i>	soft chess
	<i>Calindrinia ciliata</i>	red maids
	<i>Cardionema ramosissimum</i>	sand mat
	<i>Carex sp.</i>	sedge
	<i>Castilleja foliolosa</i>	owl's clover
*	<i>Cerastium glomeratum</i>	mouse-ear chickweed
	<i>Chorizanthe pungens var. pungens</i>	Monterey spineflower
	<i>Cirsium occidentale var. occidentale</i>	cobweb thistle
	<i>Claytonia perfoliata</i>	miner's lettuce
	<i>Collinsia heterophylla</i>	chinese houses
	<i>Croton californicus</i>	California croton
	<i>Danthonia californica</i>	California oat-grass
	<i>Delphinium sp.</i>	larkspur
	<i>Distichlis spicata</i>	salt grass
	<i>Dodecatheon clevelandii ssp. sanctarum</i>	Padres shooting star
	<i>Elymus glaucus</i>	blue wild rye
	<i>Epilobium sp.</i>	willow-herb
*	<i>Erodium botrys</i>	long-beaked filaree
*	<i>Erodium cicutarium</i>	red-stemmed filaree
	<i>Eschscholzia californica</i>	California poppy
	<i>Galium porrigens</i>	climbing dedstraw
*	<i>Geranium dissectum</i>	dove's foot geranium
	<i>Geranium sp.</i>	geranium
*	<i>Gnaphalium albo-luteum</i>	weedy cudweed
	<i>Gnaphalium californicum</i>	California cudweed
	<i>Heterotheca grandiflora</i>	telegraph weed

Table 2-12b
List of plant species encountered in HA-39/40 remediation area.

*	<i>Hypochaeris glabra</i>	smooth cat's ear
*	<i>Hypochaeris radicata</i>	hairy cat's ear
	<i>Juncus patens</i>	spreading rush
*	<i>Lactuca serriola</i>	prickly lettuce
	<i>Layia platyglossa</i>	tidy tips
	<i>Lithophragma affine</i>	woodland star
*	<i>Lolium multiflorum</i>	Italian ryegrass
	<i>Lupinus bicolor</i>	Lindley's annual lupine
	<i>Lupinus nanus</i>	sky lupine
	<i>Luzula comosa</i>	wood rush
	<i>Madia exigua</i>	small tarweed
	<i>Madia gracilis</i>	slender tarweed
	<i>Navarretia attractyloides</i>	holly-leaved Navarretia
*	<i>Plantago coronopus</i>	cut-leaved plantain
	<i>Plantago erecta</i>	California plantain
	<i>Platystemon californicus</i>	cream cups
	<i>Plectritis sp.</i>	valerian
	<i>Potentilla glandulosa</i>	sticky cinqufoil
	<i>Pteridium aquilinum var. pubescens</i>	bracken fern
	<i>Ranunculus californicus</i>	California buttercup
	<i>Rubus ursinus</i>	California blackberry
*	<i>Rumex acetosella</i>	sheep sorrel
	<i>Sanicula crassicaulis</i>	gambleweed
	<i>Satureja douglasii</i>	yerba buena
	<i>Sisyrinchium bellum</i>	blue-eyed grass
	<i>Solidago sp.</i>	golden rod
	<i>Stachys bullata</i>	hedge nettle
*	<i>Stellaria media</i>	common chickweed
*	<i>Thysanocarpus curvipes</i>	fringe pod
*	<i>Trifolium campestre</i>	hop clover
	<i>Trifolium waldenovii</i>	tomcat clover
	<i>Triphysaria pusilla</i>	dwarf owl's clover
	<i>Vicia sp.</i>	spring vetch
*	<i>Vulpia myuros</i>	rattail fescue

* non-native species

Table 2-13a
HA-44 Soil remediation site: Vegetation transect data summary, showing shrub species cover in 2 transects.

Sp. Code	Scientific Name	Common Name	Percent Cover		Range % Cover	Average % Cover
			T1	T2		
B.g.		bare ground	55.8	48.2	48.2 - 55.8	52.0
ADFA	<i>Adenostoma fasciculatum</i>	chamise	17.4	5.2	5.2 - 17.4	11.3
CERI	<i>Ceanothus cuneatus rigidus</i>	Monterey Ceanothus	5.2	13.8	5.2 - 13.8	9.5
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy barked manzanita	1.8	15.8	1.8 - 15.8	8.8
CEDE	<i>Ceanothus dentatus</i>	dwarf Ceanothus	10.2	6.2	6.2 - 10.2	8.2
Herb		herbaceous species	8.6	6.8	6.8 - 8.6	7.7
ARPU	<i>Arctostaphylos pumila</i>	sandmat manzanita	2.6	2.0		2.3
ERER	<i>Ericameria ericameria</i>	mock heather	0.6	3.0	0.6 - 3.0	1.8
GAEL	<i>Garrya elliptica</i>	silk tassel		1.4	1.4	1.4
RHCA	<i>Rhamnus californica</i>	coffee berry	0.6	0.2	0.2 - 0.6	0.4
TODI	<i>Toxicodendron diversilobum</i>	poison oak		0.2	0.2	0.2
		Tot Vegetation Cover	84.8	54.4		

Table 2-13b
List of plant species encountered in HA-44 remediation area.

	Scientific Name	Common Name
Shrub Species		
	<i>Arctostaphylos pumila</i>	sandmat manzanita
	<i>Arctostaphylos t. tomentosa</i>	shaggy barked manzanita
	<i>Baccharis pilularis</i>	coyote brush
	<i>Ericameria ericameria</i>	mock heather
	<i>Lupinus chamissonis</i>	silver bush lupine
	<i>Rhamnus californica</i>	coffee berry
	<i>Salvia mellifera</i>	black sage
	<i>Solanum umbelliferum</i>	blue witch
Herbaceous Species		
	<i>Achillea millefolium</i>	white yarrow
	<i>Apiastrum angustifolium</i>	wild celery
	<i>Cardionema ramosissimum</i>	sand mat
	<i>Centaurea melitensis</i>	tocalote
	<i>Chorizanthe pungens</i> var. <i>pungens</i>	Monterey spineflower
	<i>Cordylanthus rigidus</i> ssp. <i>littoralis</i>	Seaside bird's beak
	<i>Corythogyne (Lessingia) filaginifolia</i>	California aster
	<i>Eriophyllum confertiflorum</i>	golden yarrow
	<i>Gilia tenuiflora</i> ssp <i>arenaria</i>	sand gilia
	<i>Gnaphalium beneolens</i>	scented cudweed
	<i>Helianthemum scoparius</i>	rush rose
	<i>Koeleria macrantha</i>	June grass
	<i>Lotus scapus</i> var. <i>scapus</i>	deer weed
	<i>Monardella undulata</i>	wavy-leaved mint
	<i>Navarretia hamata</i>	hooked Navarretia
	<i>Plagiobothrys sp.</i>	popcorn flower
	<i>Plantago erecta</i>	California plantain

Table 2-14a

HA-48 remediation site: Vegetation transect data summary, showing shrub species percent cover in one transect. (Additional data has been collected previously on this range.)

Sp. Code	Scientific Name	Common Name	Percent Cover
B.G		bare ground	53.0
ADFA	<i>Adenostoma fasciculatum</i>	chamise	18.2
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy barked manzanita	10.6
HOCU	<i>Horkelia cuneata spp. cuneata</i>	wedge-leaved Horkelia	6.0
LUCH	<i>Lupinus chamissonis</i>	silver bush lupine	5.0
CEDE	<i>Ceanothus dentatus</i>	dwarf Ceanothus	4.8
CERI	<i>Ceanothus cuneatus rigidus</i>	Monterey Ceanothus	4.4
HESC	<i>Helianthemum scoparius</i>	rush rose	1.2
Herb		herbaceous species	1.0
SAME	<i>Salvia mellifera</i>	black sage	1.0
ARPU	<i>Arctostaphylos pumila</i>	sandmat manzanita	0.2
		Total Vegetation Cover	52.4

Table 2-14b
List of plant species encountered in HA-48 remediation area near transect.

	Scientific Name	Common Name
Shrub Species		
	<i>Arctostaphylos pumila</i>	sandmat manzanita
	<i>Adenostoma fasciculatum</i>	chamise
	<i>Arctostaphylos t. tomentosa</i>	shaggy barked manzanita
	<i>Baccharis pilularis</i>	coyote brush
	<i>Ceanothus cuneatus rigidus</i>	Monterey Ceanothus
	<i>Ceanothus dentatus</i>	dwarf Ceanothus
	<i>Ericameria ericameria</i>	mock heather
	<i>Helianthemum scoparius</i>	rush rose
	<i>Horkelia cuneata spp. cuneata</i>	wedge-leaved Horkelia
	<i>Lupinus arboreus</i>	yellow bush lupine
	<i>Lupinus arboreus</i>	yellow bush lupine
	<i>Salvia mellifera</i>	black sage
Herbaceous Species		
	<i>Achillea millefolium</i>	white yarrow
	<i>Carex brevicaulis</i>	short-stemmed sedge
	<i>Castilleja densiflora</i>	owl's clover
	<i>Chorizanthe pungens spp. pungens</i>	Monterey spineflower
	<i>Corythroyne filaginifolia</i>	California aster
	<i>Croton californicus</i>	California croton
*	<i>Erodium spp.</i>	filaree
	<i>Gilia tenuiflora arenaria</i> ¹	sand gilia
	<i>Heterotheca grandiflora</i>	telegraph weed
*	<i>Hypochaeris spp.</i>	cat's ears
	<i>Lessingia glandulifera var. pectinata</i>	valley Lessingia
	<i>Plantago erecta</i>	California plantain
*	<i>Rumex acetosella</i>	sheep sorrel

* non-native species

¹ Presence known from 2005 surveys (USACE, 2005)

Table 4-1.
Burn Units 18 and 22: Vegetation transect data summary, showing range and average percent cover for 36 transects. Species are ranked by percent cover.

Shrub Sp Code	Scientific Name	Common Name	Percent Cover									
			T1	T2	T3	T4	T5	T6	T7	T8	T9	T10
ADFA	<i>Adenostoma fasciculatum</i>	chamise	15.0		1.0	2.0	10.8	4.2	2.6		18.2	16.6
ARPU	<i>Arctostaphylos pumila</i>	sandmat manzanita	16.8	66.0	76.2	59.8	52.0	43.4	59.8	35.8	9.0	22.0
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita	36.0	2.6	0.8		4.8	31.0	12.6	49.4	46.0	5.0
BAPI	<i>Baccharis pilularis</i>	coyote brush					0.2				2.0	
CERI	<i>Ceanothus cuneatus rigidus</i>	Monterey Ceanothus	2.4		0.4	14.6			0.4	0.4		
CEDE	<i>Ceanothus dentatus</i>	dwarf Ceanothus										
ERFA	<i>Ericameria fasciculata</i>	Eastwood's golden bush		0.2								
ERER	<i>Ericameria ericoides</i>	mock heather									1.0	1.2
GAEL	<i>Garrya elliptica</i>	silk tassel							0.2	4.2	10.8	
HEAR	<i>Heteromeles arbutifolia</i>	toyon										
LECA	<i>Lepechinia calycina</i>	pitcher sage										
LUCH	<i>Lupinus chamissonis</i>	silver beach lupine										
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey flower					0.2					
QUAG	<i>Quercus agrifolia</i>	coast live oak									1.6	2.6
RHCA	<i>Rhamnus californica</i>	coffee berry				6.2				2.0		
SAME	<i>Salvia mellifera</i>	black sage			2.0							17.4
TODI	<i>Toxicodendron diversilobum</i>	poison oak	1.0		0.2							7.0
B.G.	B.G.	bare ground	29.8	34.0	18.6	19.0	30.6	13.0	23.0	7.8	21.6	29.0
	Herbaceous total	herbaceous cover	0.6		1.4	1.0	2.4				0.2	
		Total Cover	101.6	102.8	100.6	102.6	101	91.6	98.6	99.6	110.4	100.8

Table 4-1.
Burn Units 18 and 22: Vegetation transect data summary, showing range and average percent cover for 36 transects. Species are ranked by percent cover.

Shrub Sp Code	Scientific Name	Common Name	Percent Cover									
			T11	T12	T13	T14	T15	T16	T17	T18	T19	T20
ADFA	<i>Adenostoma fasciculatum</i>	chamise	7.6	0.2	14.4	4.6	5.8	64.8	12.0	62.4	7.0	6.8
ARPU	<i>Arctostaphylos pumila</i>	sandmat manzanita	22.7	35.4	7.0	44.8	27.0	2.8	6.2		51.6	44.2
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita	29.6	30.4	22.2	20.4	22.6	14.8	69.8	10.6	31.0	31.6
BAPI	<i>Baccharis pilularis</i>	coyote brush								0.6		
CERI	<i>Ceanothus cuneatus rigidus</i>	Monterey Ceanothus	5.4	1.4					11.2	6.4	24.4	
CEDE	<i>Ceanothus dentatus</i>	dwarf Ceanothus										
ERFA	<i>Ericameria fasciculata</i>	Eastwood's golden bush										
ERER	<i>Ericameria ericoides</i>	mock heather										
GAEL	<i>Garrya elliptica</i>	silk tassel					0.2		4.6			
HEAR	<i>Heteromeles arbutifolia</i>	toyon									1.0	
LECA	<i>Lepechinia calycina</i>	pitcher sage							0.8			
LUCH	<i>Lupinus chamissonis</i>	silver beach lupine						0.2				
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey flower		2.2	0.6		0.6			0.4		0.4
QUAG	<i>Quercus agrifolia</i>	coast live oak	4.0									
RHCA	<i>Rhamnus californica</i>	coffee berry									1.8	
SAME	<i>Salvia mellifera</i>	black sage	8.0		16.0		0.2		9.4		2.8	
TODI	<i>Toxicodendron diversilobum</i>	poison oak		0.2	10.2							
B.G.	B.G.	bare ground	22.0	31.8	29.8	30.2	36.0	7.0	8.0	8.0	10.8	20.6
	Herbaceous total	herbaceous cover		1.4	1.6	0.8	2.4					
		Total Cover	99.3	103	101.8	101	94.8	106	111.8	106.4	106	103.6

Table 4-1.
Burn Units 18 and 22: Vegetation transect data summary, showing range and average percent cover for 36 transects. Species are ranked by percent cover.

Shrub Sp Code	Scientific Name	Common Name	Percent Cover									
			T21	T22	T23	T24	T25	T26	T27	T28	T29	T30
ADFA	<i>Adenostoma fasciculatum</i>	chamise	8.0	4.0	37.6	15.4	27.0	30.4	53.4	45.0	16.0	15.4
ARPU	<i>Arctostaphylos pumila</i>	sandmat manzanita	9.2	59.4	7.6	64.4	51.2	0.4			4.2	13.8
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita	43.0	12.8	16.2	5.2		41.4	32.8	41.6	62.0	39.2
BAPI	<i>Baccharis pilularis</i>	coyote brush	1.0					6.6				
CERI	<i>Ceanothus cuneatus rigidus</i>	Monterey Ceanothus	3.8	2.4		0.2		13.6	4.8	5.8	1.4	
CEDE	<i>Ceanothus dentatus</i>	dwarf Ceanothus		0.6								
ERFA	<i>Ericameria fasciculata</i>	Eastwood's golden bush										
ERER	<i>Ericameria ericoides</i>	mock heather									0.4	
GAEL	<i>Garrya elliptica</i>	silk tassel										6.6
HEAR	<i>Heteromeles arbutifolia</i>	toyon										
LECA	<i>Lepechinia calycina</i>	pitcher sage						0.4		1.4		
LUCH	<i>Lupinus chamissonis</i>	silver beach lupine										
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey flower						0.4	0.2	0.4		0.2
QUAG	<i>Quercus agrifolia</i>	coast live oak	3.4		0.2		0.4					13.6
RHCA	<i>Rhamnus californica</i>	coffee berry										
SAME	<i>Salvia mellifera</i>	black sage		5.8	4.8						2.2	
TODI	<i>Toxicodendron diversilobum</i>	poison oak		0.4							4.0	1.4
B.G.	B.G.	bare ground	32.0	16.8	33.6	14.2	25.2	16.6	13.2	10.2	11.4	8.8
	Herbaceous total	herbaceous cover			1.4			0.2			0.2	9.2
		Total Cover	100.4	102.2	101.4	99.4	103.8	110	104.4	104.4	101.8	108.2

Table 4-1.
Burn Units 18 and 22: Vegetation transect data summary, showing range and average percent cover for 36 transects. Species are ranked by percent cover.

Shrub Sp Code	Scientific Name	Common Name	T31	T32	T33	T34	T35	T36	% Cover	Average
									Range	% Cover
ADFA	<i>Adenostoma fasciculatum</i>	chamise	24.8	1.2	5.2	41.8	11.4	25.4	0.2-64.8	18.2
ARPU	<i>Arctostaphylos pumila</i>	sandmat manzanita	12.2	56.4	45.2	9.2	24.4	17.4	0.4-76.2	32.0
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita	33.0	20.2	33.2	24.0	1.0		0.8-69.8	26.6
BAPI	<i>Baccharis pilularis</i>	coyote brush							0.2-6.6	2.1
CERI	<i>Ceanothus cuneatus rigidus</i>	Monterey Ceanothus		0.2		3.2	13.0	19.6	0.2-24.4	6.4
CEDE	<i>Ceanothus dentatus</i>	dwarf Ceanothus					1.4		0.6-1.4	1.0
ERFA	<i>Ericameria fasciculata</i>	Eastwood's golden bush							0.2	0.2
ERER	<i>Ericameria ericoides</i>	mock heather				0.2			0.2-1.2	0.7
GAEL	<i>Garrya elliptica</i>	silk tassel	0.4						0.2-10.8	3.9
HEAR	<i>Heteromeles arbutifolia</i>	toyon						10.0	1.0-10.0	5.5
LECA	<i>Lepechinia calycina</i>	pitcher sage							0.4-1.4	0.9
LUCH	<i>Lupinus chamissonis</i>	silver beach lupine							0.2	0.2
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey flower							0.2-2.2	0.6
QUAG	<i>Quercus agrifolia</i>	coast live oak	1.4						0.2-13.6	3.4
RHCA	<i>Rhamnus californica</i>	coffee berry							1.8-6.2	3.3
SAME	<i>Salvia mellifera</i>	black sage					13.8		0.2-17.4	7.5
TODI	<i>Toxicodendron diversilobum</i>	poison oak	0.2			0.8		1.6	0.2-10.2	2.5
B.G.	B.G.	bare ground	28.8	24.0	22.4	21.2	36.8	27.0	7.0-36.8	21.5
	Herbaceous total	herbaceous cover	0.8			0.6	0.8		0.2-9.2	1.6
		Total Cover	101.6	102	106	101	102.6	101		102.6