



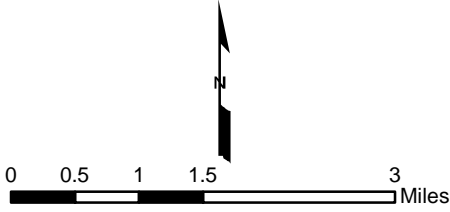


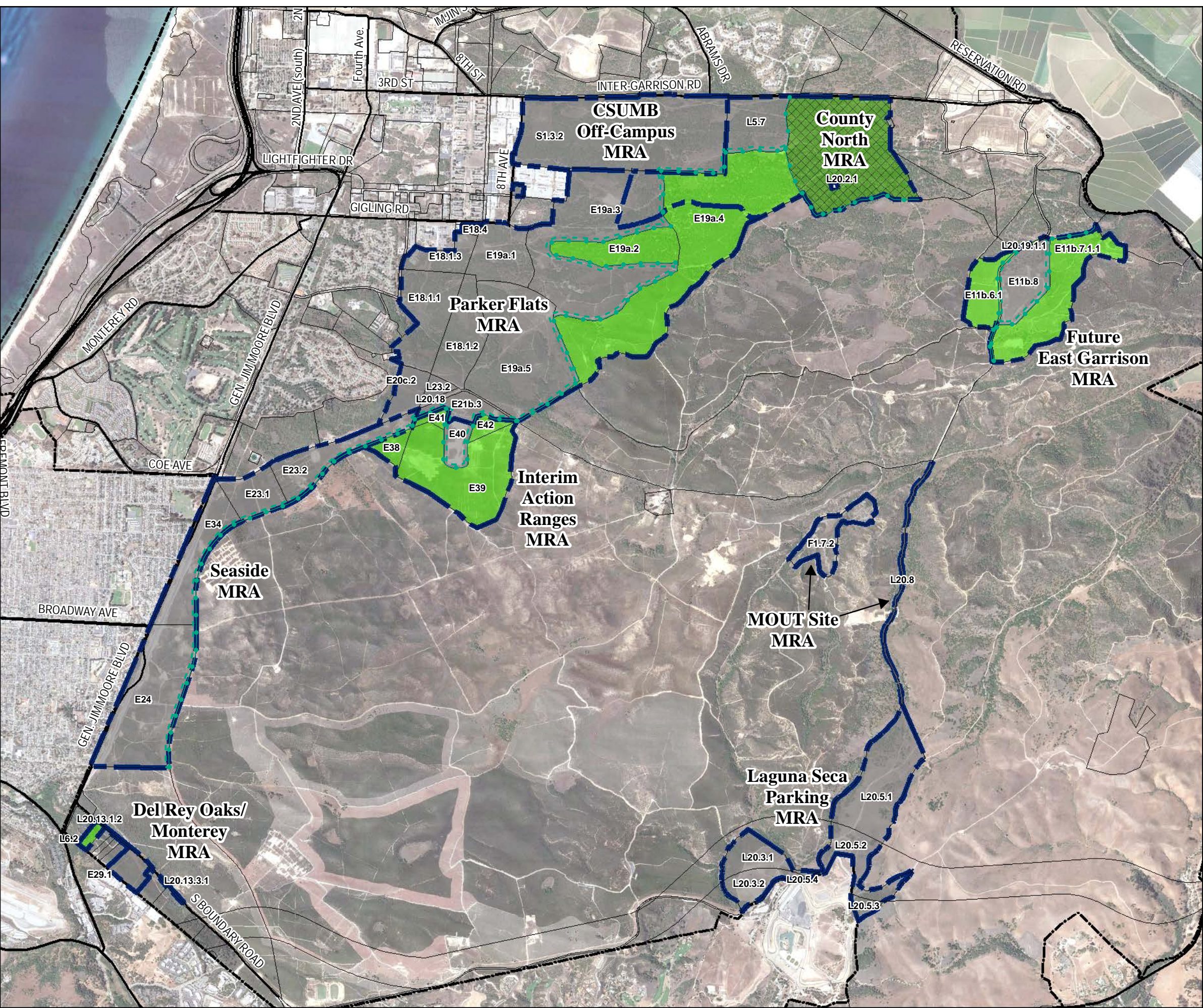
-  ESCA Munitions Response Area
-  Impact Area Boundary
-  Former Fort Ord Boundary
-  Major Road



2015 Annual Natural Resource Report  
Former Fort Ord  
Location Map  
FORA ESCA RP  
Monterey County, California

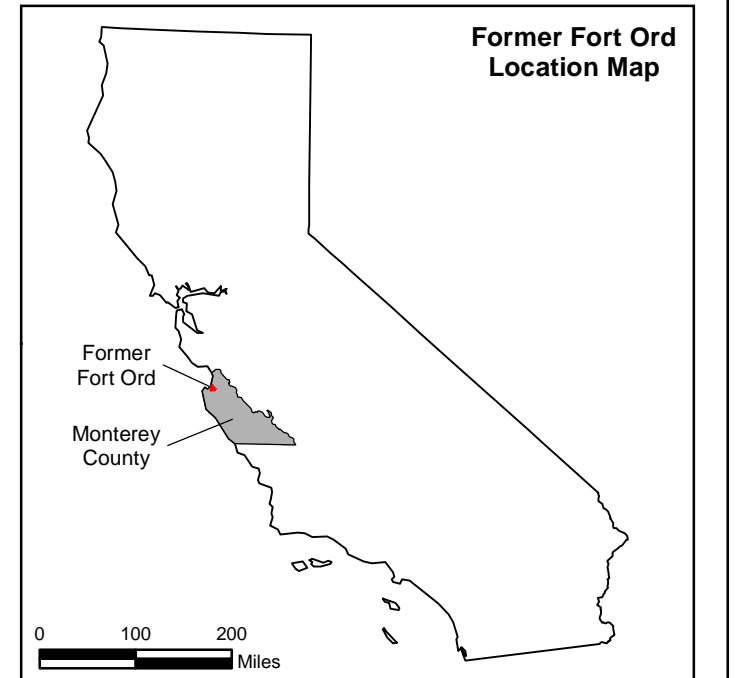
Figure 1

Document Path: Z:\GIS\PROJECTS\ENV\FOR\095956\_GIS\Projects\AIMRAs\Habitat\_Monitoring\2015 Annual Natural Resource Report\Fig 2 ALLMRA ESCA\_Property Proposed Future Land Use.mxd



### Legend

- Munitions Response Area
- Major Road
- Borderland Interface
- 100-Foot Buffer from Borderland Interface
- E11b.8 USACE Parcel
- Former Fort Ord Boundary
- Development Parcel
- Habitat Reserve
- Habitat Corridor



Aerial Source: Google Earth Pro,  
Accessed 11/21/2014 - Image Date: 8/25/2013

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Feet

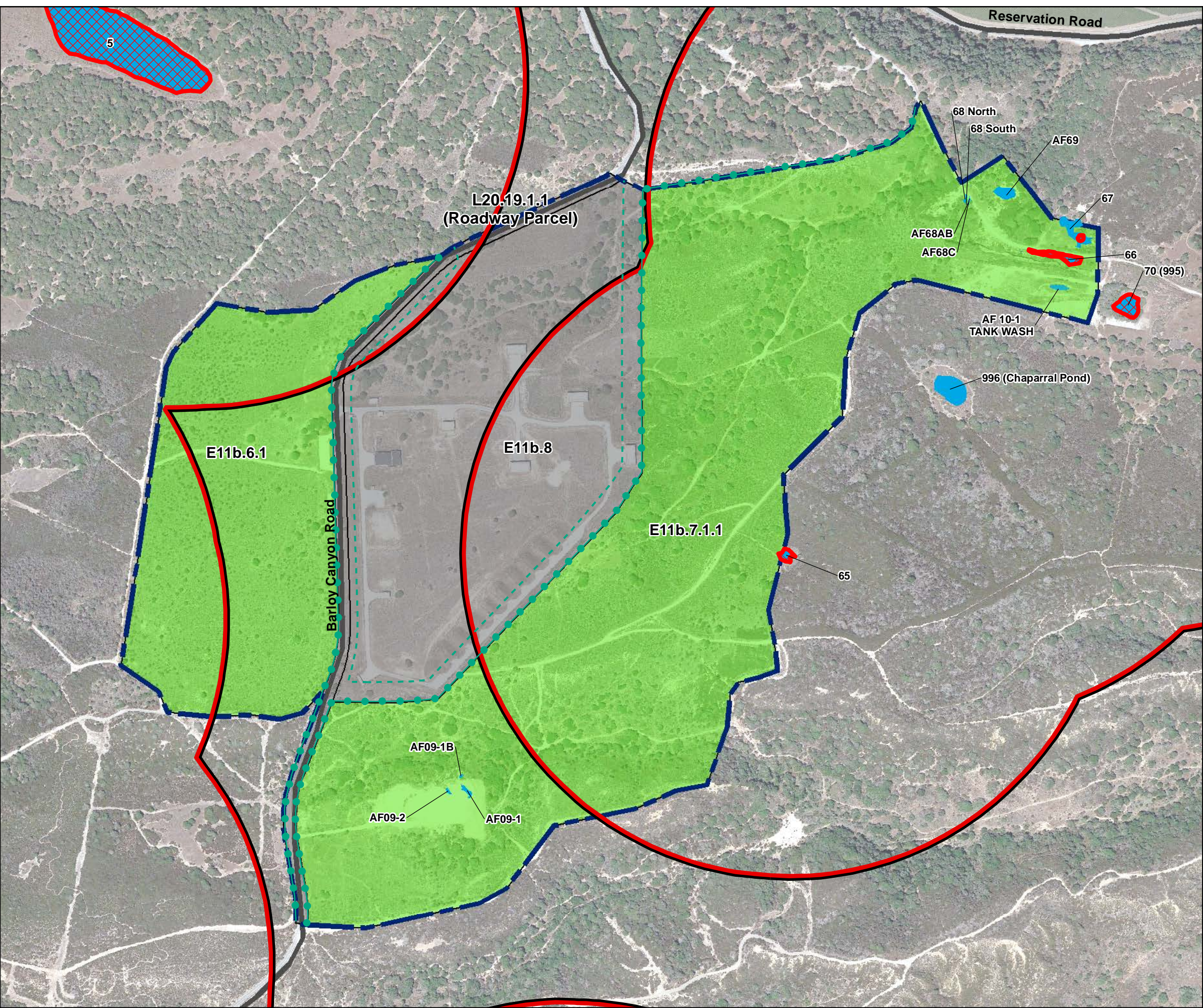
**2015 Annual Natural Resource Report**

**ESCA RP**  
**2015 Proposed Future Land Use**

FORA ESCA RP  
Monterey County, California

Figure 2

Document Path: Z:\GIS\PROJECTS\ ENV\FORd\095956\_GIS\Projects\AIMRAs\Habitat\_Monitoring\2015 Annual Natural Resource Report\Fig 3a Future East Garrison MRA.mxd

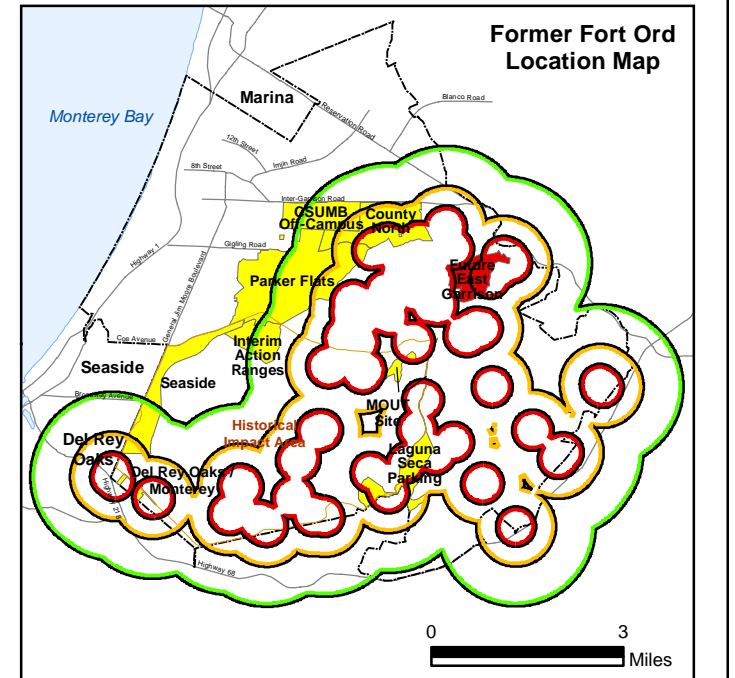


### Legend

- Munitions Response Area
- Major Road
- E23.1 USACE Parcel
- Aquatic Features
- Aquatic Feature with Documented CTS Presence
- Habitat Reserve
- Development Parcels
- Borderland Interface
- 100-Foot Buffer from Borderland Interface

California Tiger Salamander Buffer

- 500 m
- 1 km
- 2 km



Aerial Source: Google Earth Pro,  
 Accessed 11/21/2014 - Image Date: 8/25/2013

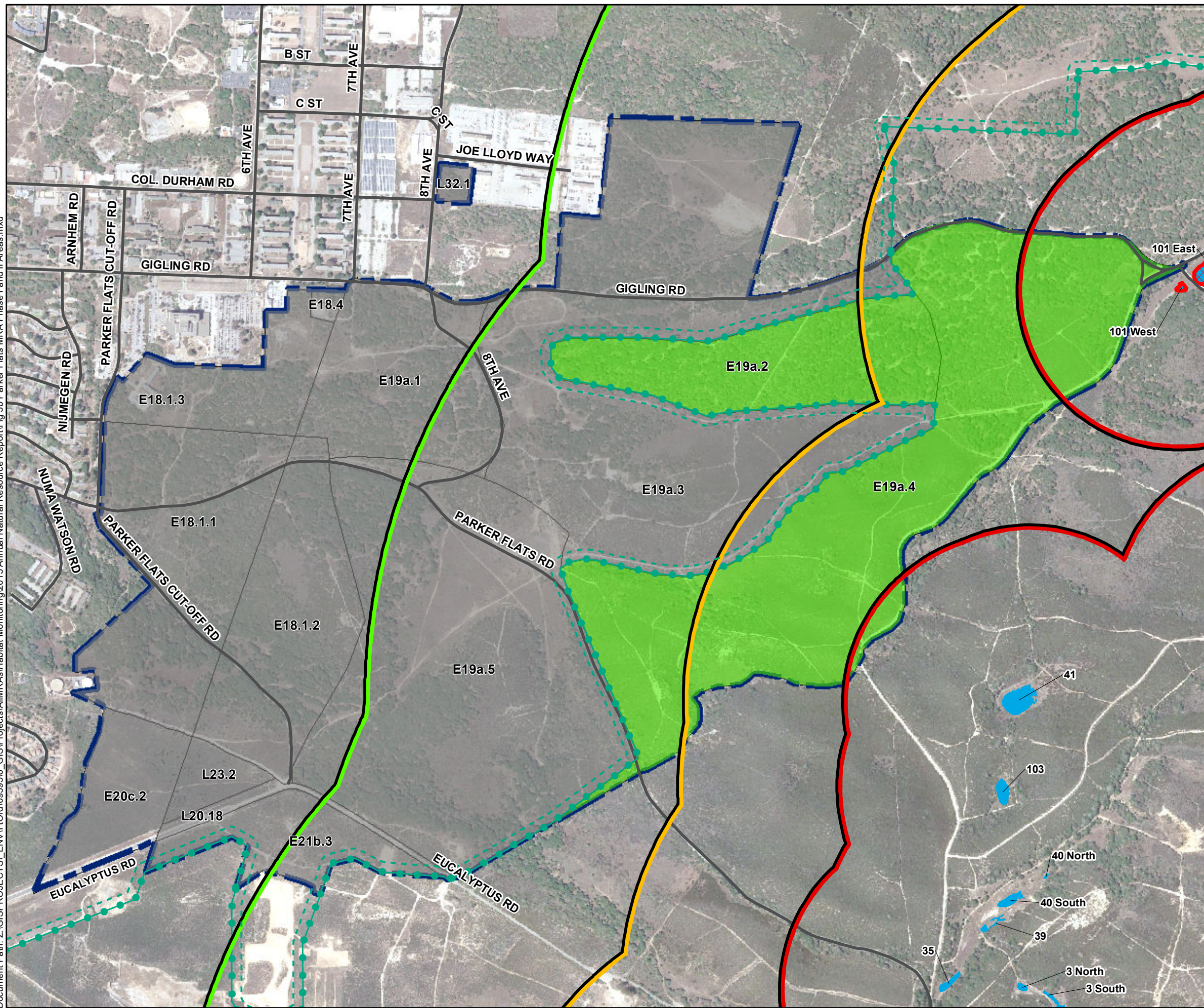
Scale: 0, 500, 1,000 Feet

2015 Annual Natural Resource Report

**Munitions Response Areas with Habitat Parcels Overview**  
**Future East Garrison MRA**  
 FORA ESCA RP  
 Monterey County, California

Figure 3a

Document Path: Z:\GIS\PROJECTS\ENV\FortOrd\0959516\_GIS\Projects\A\IMR\AsHabitat\_Monitoring\2015 Annual Natural Resource Report\Fig 3b Parker Flats MRA Phase I and II Areas.mxd



### Legend

- Munitions Response Area
- Major Road
- USACE Parcel
- Aquatic Features
- Aquatic Feature with Documented CTS Presence
- Habitat Reserve
- Development Parcels
- Borderland Interface
- 100-Foot Buffer from Borderland Interface

California Tiger Salamander Buffer

- 500 m
- 1 km
- 2 km

#### Former Fort Ord Location Map

Aerial Source: Google Earth Pro,  
Accessed 11/21/2014 - Image Date: 8/25/2013

0 1,000 2,000  
Feet

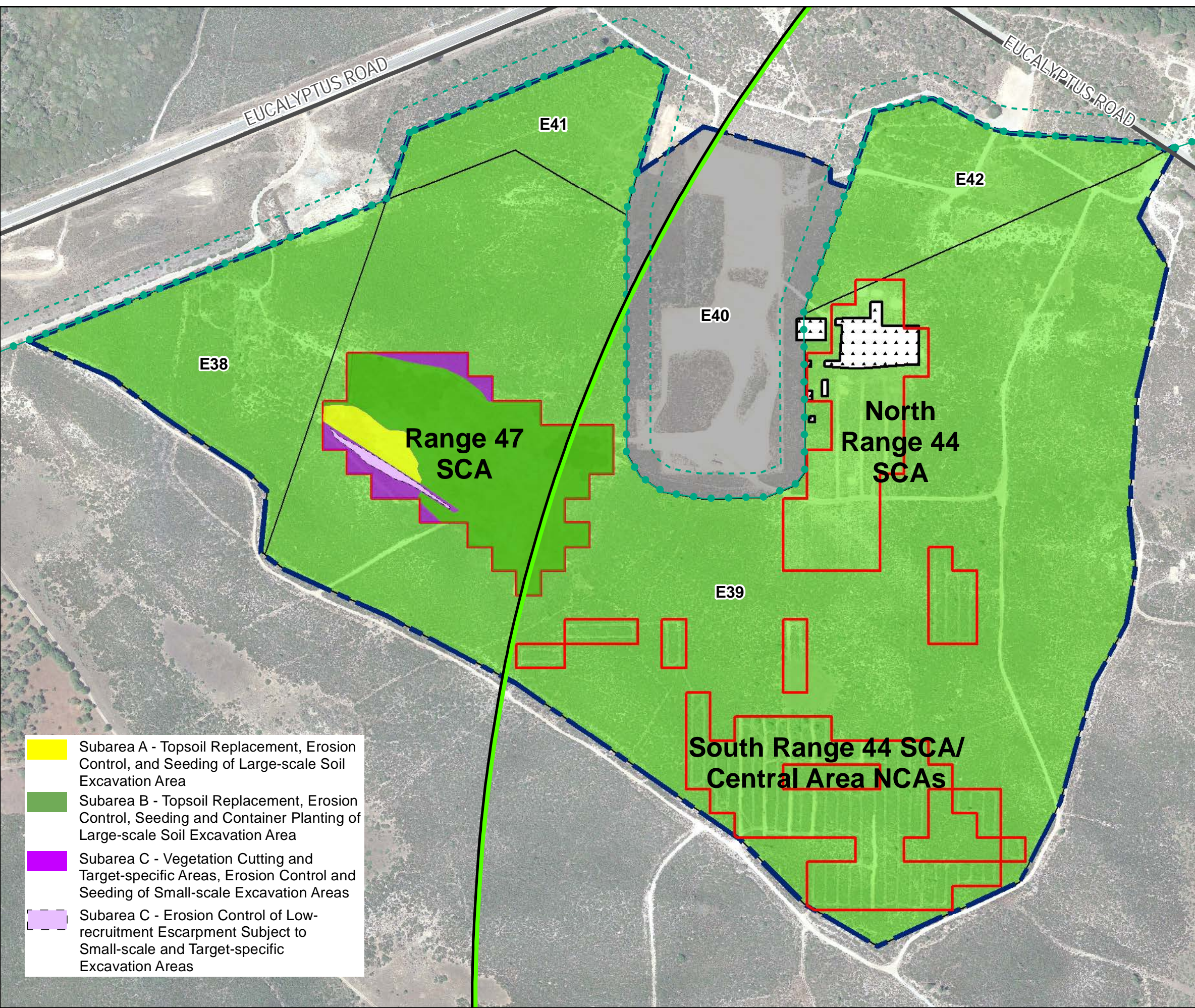
**2015 Annual Natural Resource Report**

**Munitions Response Areas with  
Habitat Parcels Overview  
Parker Flats MRA**

FORA ESCA RP  
Monterey County, California

**Figure 3b**

Document Path: Z:\GIS\PROJECTS\ENV\FORTORD\0959516\_GIS\Projects\AIRMRA\Habitat\_Monitoring\2015 Annual Natural Resource Report\Fig 3c IAR MRA.mxd



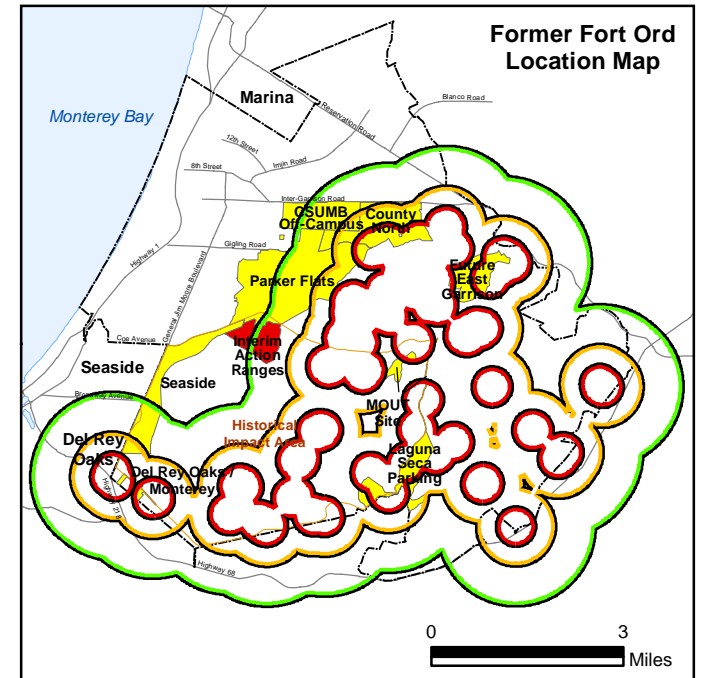
- Subarea A - Topsoil Replacement, Erosion Control, and Seeding of Large-scale Soil Excavation Area
- Subarea B - Topsoil Replacement, Erosion Control, Seeding and Container Planting of Large-scale Soil Excavation Area
- Subarea C - Vegetation Cutting and Target-specific Areas, Erosion Control and Seeding of Small-scale Excavation Areas
- Subarea C - Erosion Control of Low-recruitment Escarpment Subject to Small-scale and Target-specific Excavation Areas

### Legend

- Munitions Response Area
- Major Road
- USACE Parcel
- Site 39 (HA44) US Army Action
- Special Case and Non-Completed Areas (Work Areas)
- Habitat Reserve
- Development Parcels
- Borderland Interface
- 100-Foot Buffer from Borderland Interface

California Tiger Salamander Buffer

- 500 m
- 1 km
- 2 km



Aerial Source: Google Earth Pro,  
 Accessed 4/17/2014 - Image Date: 8/25/2013

0 400 800  
 Feet

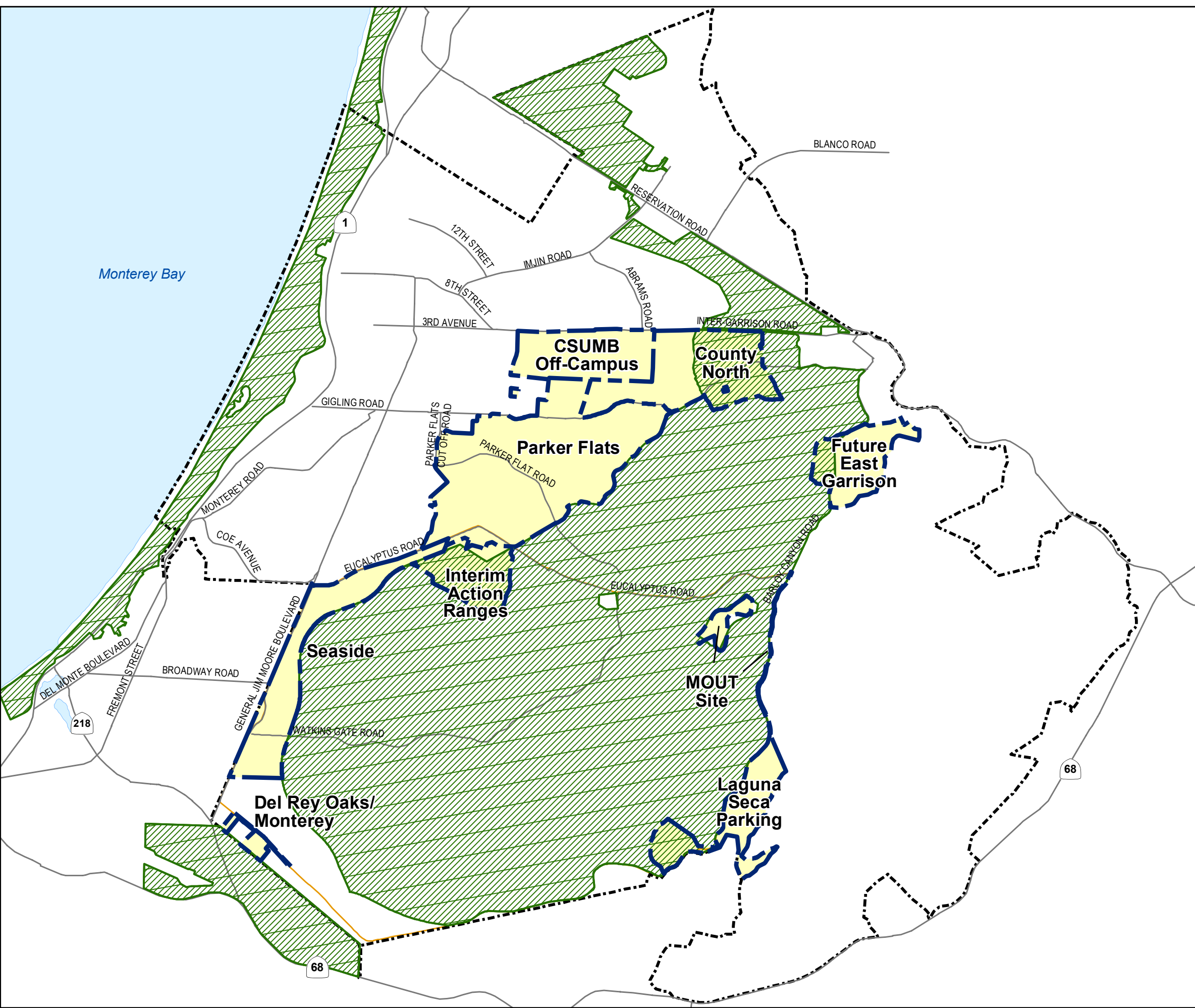
**2015 Annual Natural Resource Report**

**Munitions Response Areas with  
 Habitat Parcels Overview  
 Interim Action Ranges MRA**

FORA ESCA RP  
 Monterey County, California

Figure 3c

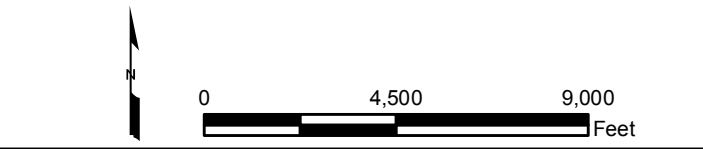
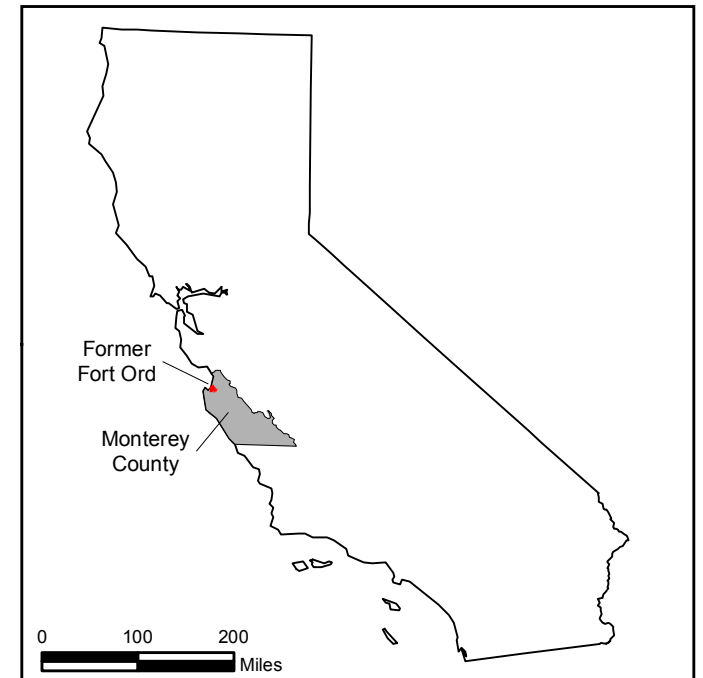
Document Path: Z:\GIS\PROJECTS\ENV\FORTD\0959516\_GIS\Projects\A\IMR\AsHabitat\_Monitoring\2015 Annual Natural Resource Report\Fig 4 Monterey Spineflower Critical Habitat Location.mxd



### Legend

- Major Roads
- Former Fort Ord Boundary
- ESCA Munitions Response Areas
- Impact Area Boundary
- U.S. Fish and Wildlife Designated Monterey Spineflower Critical Habitat

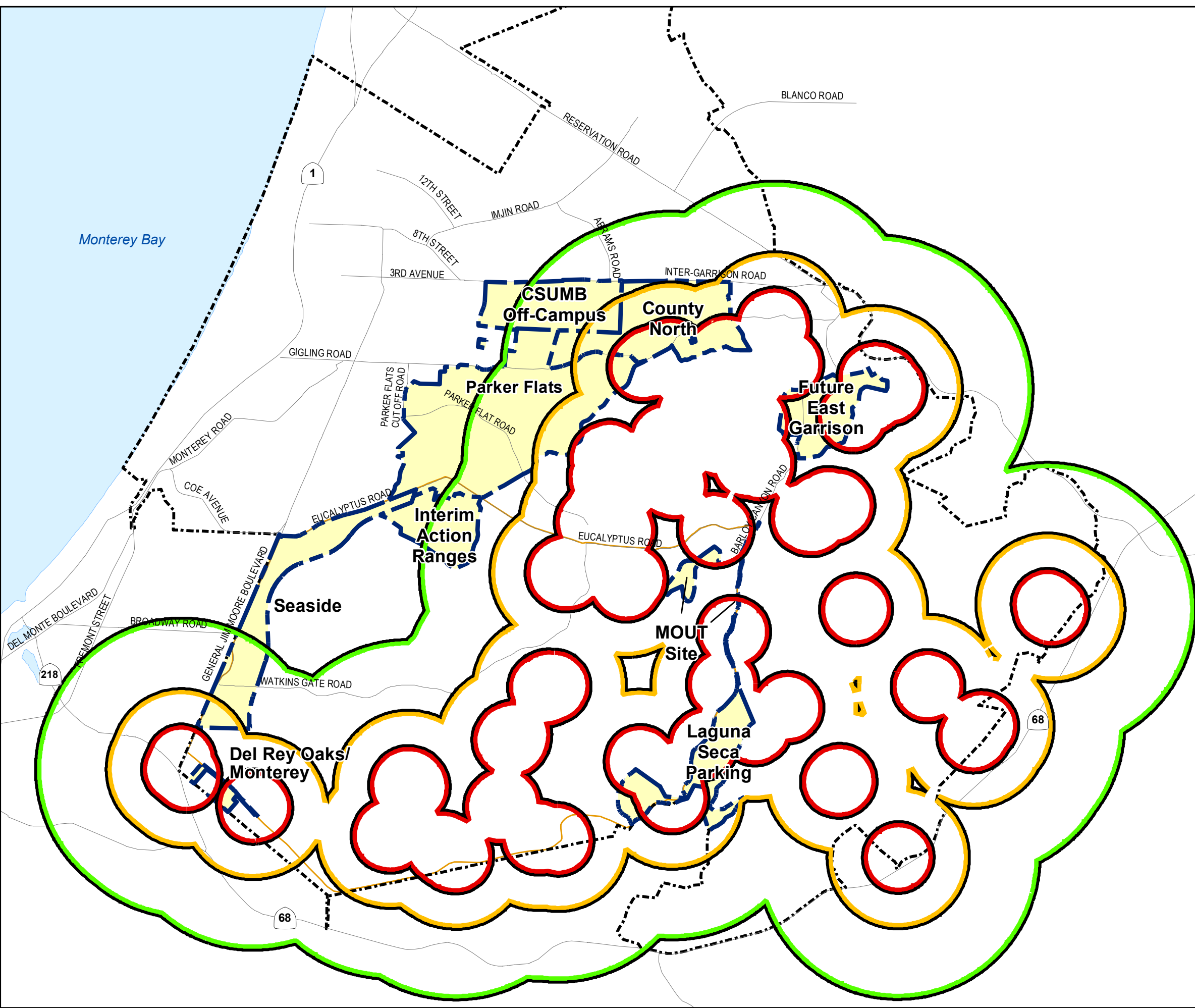
Source: USFWS. 2002. Biological Opinion on the Closure and Reuse of Fort Ord, Monterey County, California as it affects California Tiger Salamander and Critical Habitat for Contra Costa Goldfields (1-8-04-F25-R)



2015 Annual Natural Resource Report  
 Former Fort Ord Monterey Spineflower Critical Habitat Locations  
 FORA ESCA RP  
 Monterey County, California

Figure 4

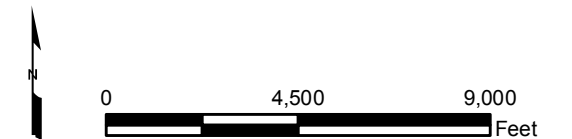
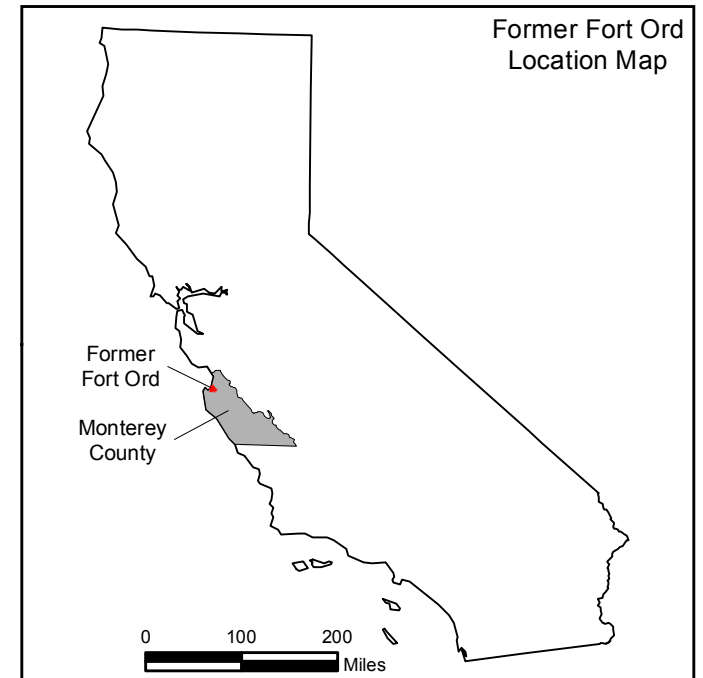
Document Path: Z:\GIS\PROJECTS\ENV\FORd\0959516\_GIS\Projects\A\IMR\AS\Habitat\_Monitoring\2015 Annual Natural Resource Report\Fig 5 CTS Potential Habitat Zones.mxd



### Legend

- Major Roads
  - Former Fort Ord Boundary
  - ESCA Munitions Response Areas
  - Historical Impact Area Boundary
- California Tiger Salamander - Habitat Zones
- 500 M
  - 1 KM
  - 2 KM

Source: USFWS. 2005. Cleanup and Reuse of Former Fort Ord. Monterey County, California as it affects California Tiger Salamander and Critical Habitat for Contra Costa Goldfields (1-8-04-F25-R)

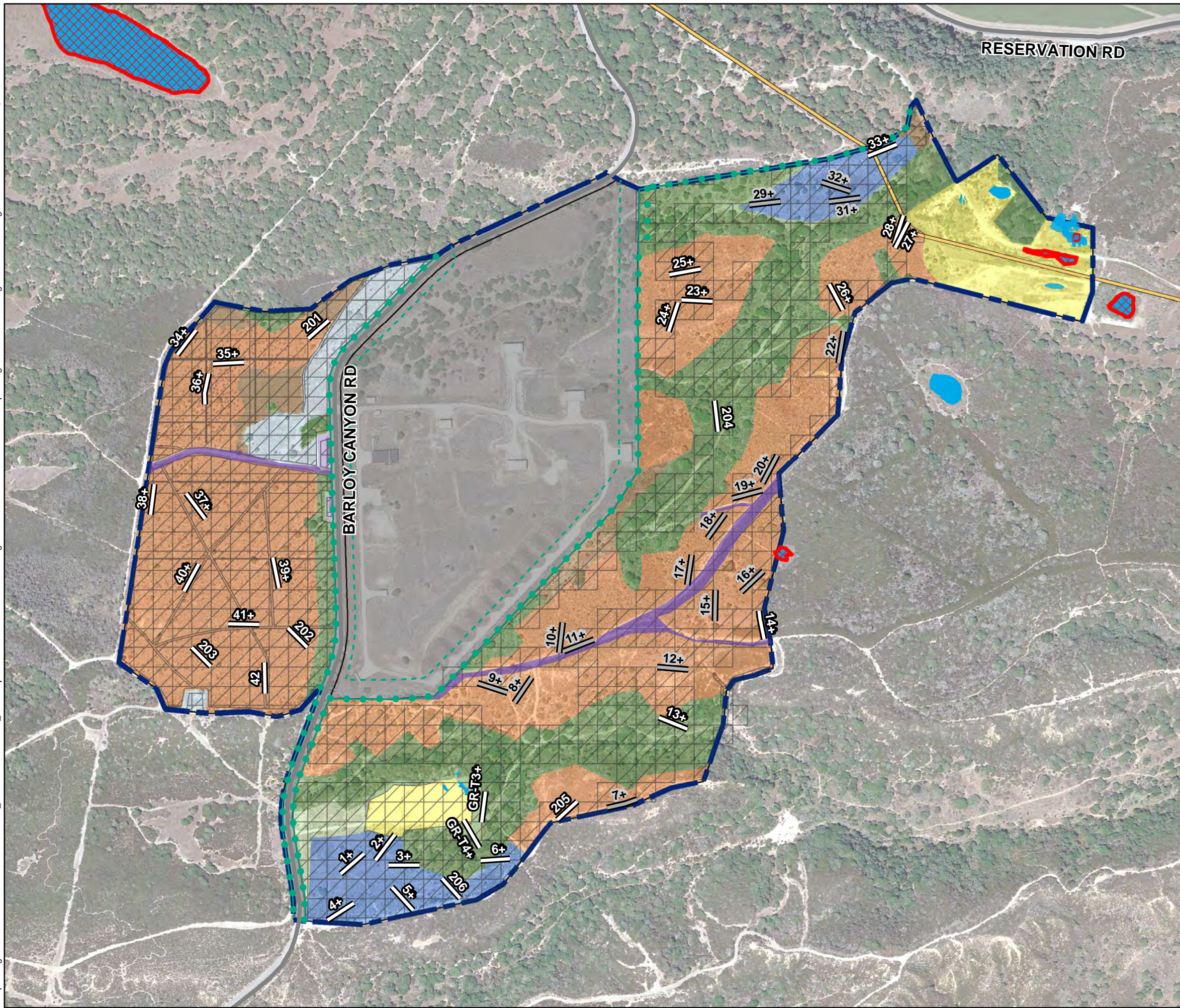


2015 Annual Natural Resource Report

**California Tiger Salamander  
Habitat Buffer Zones**

FORA ESCA RP  
Monterey County, California

**Figure 5**



### Legend

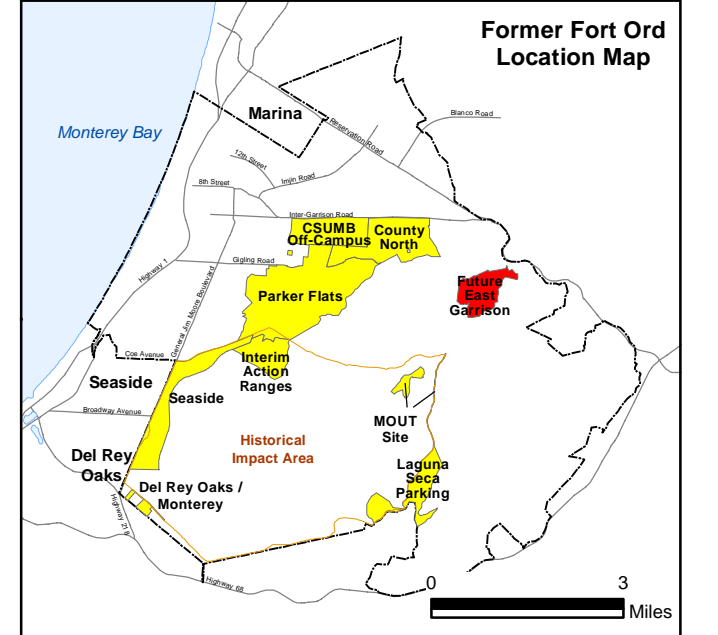
- Munitions Response Area
- Major Road
- Natural Gas Pipeline
- Development Parcel
- 2015 Vegetation Transects
- Previously Monitored Transects
- Borderland Interface
- 100-Foot Buffer from Borderland Interface
- 2015 HMP Herbaceous Species Survey Areas (Survey areas shown outside of MRA habitat boundaries serve as reference locations)
- Aquatic Features
- Aquatic Feature with Documented CTS Presence

Note: + = baseline transect

### Vegetation Types

- Central Maritime Chaparral
- Chamise-dominated Chaparral
- Low Quality Disturbed Chaparral
- Coast Live Oak Woodland
- Grassland
- Ruderal and Cleared Areas
- Low Recruitment Area
- Roadways and Fuel Breaks

Note: Vegetation mapping modified from 2011 Annual Natural Resource Report.



Aerial Source: Google Earth Pro, Accessed 11/21/2014 - Image Date: 8/25/2013

0 500 1,000 Feet



**2015 Annual Natural Resource Report**

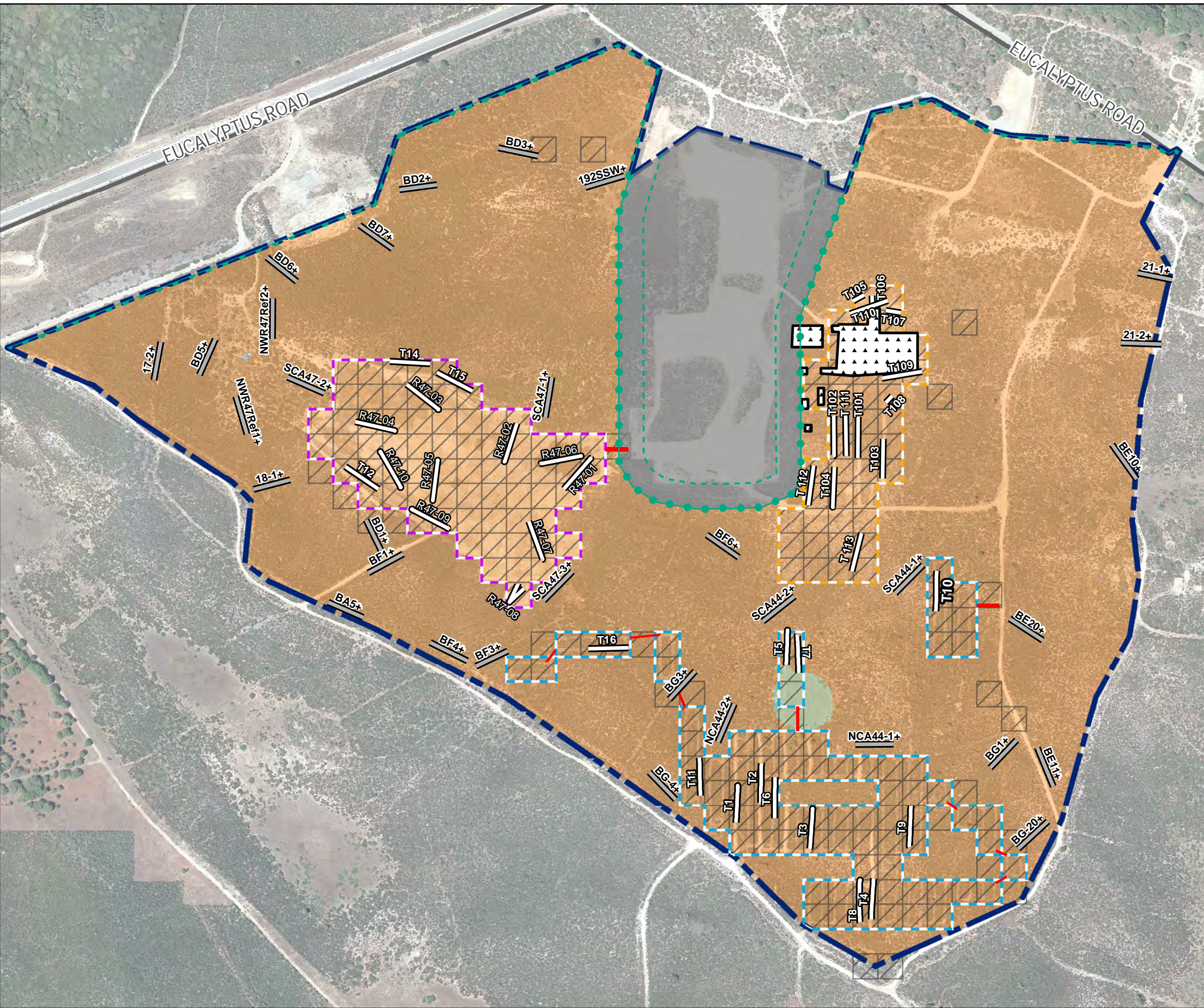
**Vegetation Monitoring and HMP Herbaceous Survey Locations Future East Garrison MRA**

FORA ESCA RP  
Monterey County, California

**Figure 6a**



Document Path: \\corpstorage\data\arcgis\data\GISPROJECTS\ENV\F\Ord\095956\_GIS\Projects\AllMIRAs\Habitat Monitoring\2015 Annual Natural Resource Report\Fig 6b IAR Monitoring Locations and Veg Comm.mxd



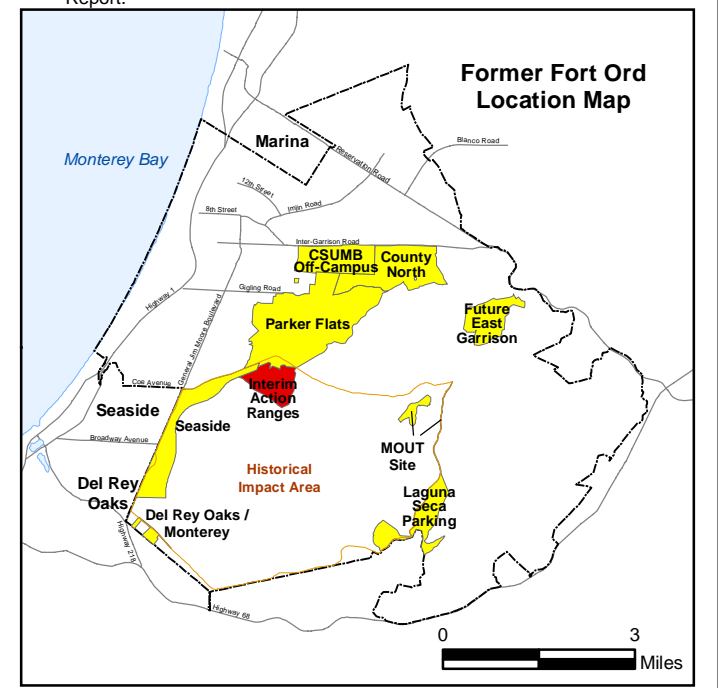
### Legend

- Munitions Response Area
- Major Road
- Development Parcel
- Improved Ingress/Egress Established by ESCA RP Team
- Site 39 (HA44) US Army Action
- North Range 44 SCA
- South Range 44 SCA/Central Area NCA
- Range 47 SCA
- 2015 Vegetation Transects (Monitored Annually per HRP) Note: + = baseline transect
- Baseline Transects
- Borderland Interface
- 100-Foot Buffer from Borderland Interface
- 2015 HMP Herbaceous Species Survey Areas (Survey areas shown outside of MRA habitat boundaries serve as reference locations)

#### Vegetation Types\*

- Grassland
- Central Maritime Chaparral

\*Source: Flora and Fauna Baseline Study of Fort Ord, California, Jones and Stokes Association Inc., December 1992. Vegetation mapping modified from 2011 Annual Natural Resource Report.



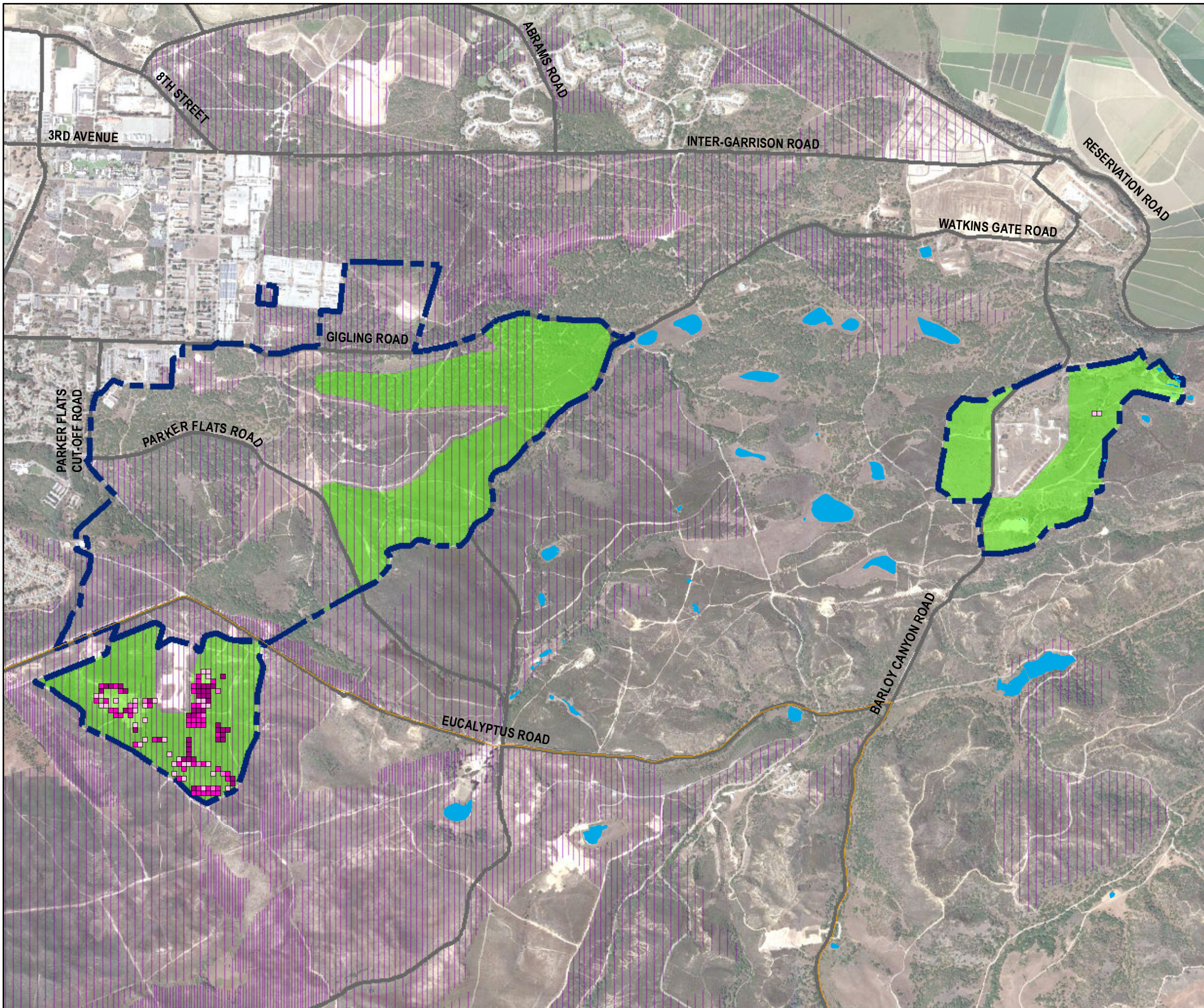
Aerial Source: Google Earth Pro, Accessed 4/17/2014 - Image Date: 8/25/2013

**2015 Annual Natural Resource Report**

**Vegetation Monitoring and HMP Herbaceous Survey Locations Interim Action Ranges MRA**

FORA ESCA RP  
Monterey County, California

**Figure 6b**



**Legend**

- Munitions Response Area
- Major Road
- Habitat Reserve
- Historical Impact Area
- Aquatic Features

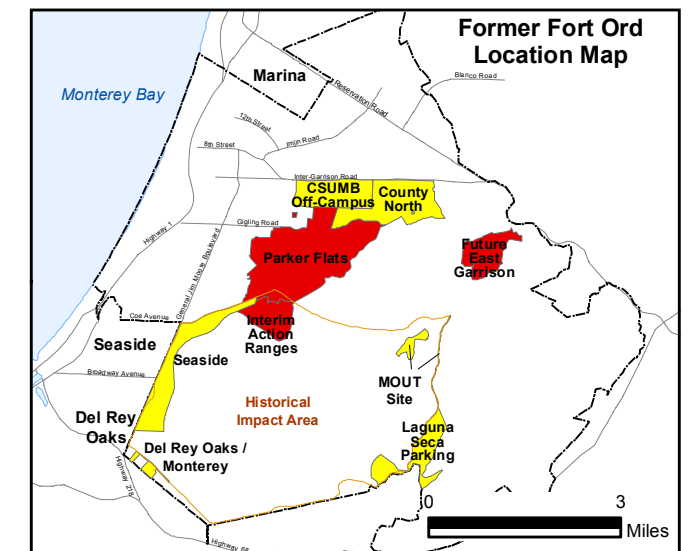
**1992\* Species Density (Approx. # per Grid Cell)**

- 0-50 - Low\*
- 51-500 - Medium\*
- > 500 - High\*

**2015 Species Density (# per 10,000 sq. ft.)**  
(Survey areas shown outside of MRA habitat boundaries serve as reference locations)

- 1-50
- 51-100
- 101 - 500
- > 500

\*Source: Flora and Fauna Baseline Study of Fort Ord, California, Jones and Stokes Association Inc., December 1992.  
Note:  
HMP herbaceous species monitoring not required in Parker Flats MRA in 2015



Aerial Source: Google Earth Pro,  
Accessed 11/21/2014 - Image Date: 8/25/2013  
0 2,000 4,000 Feet

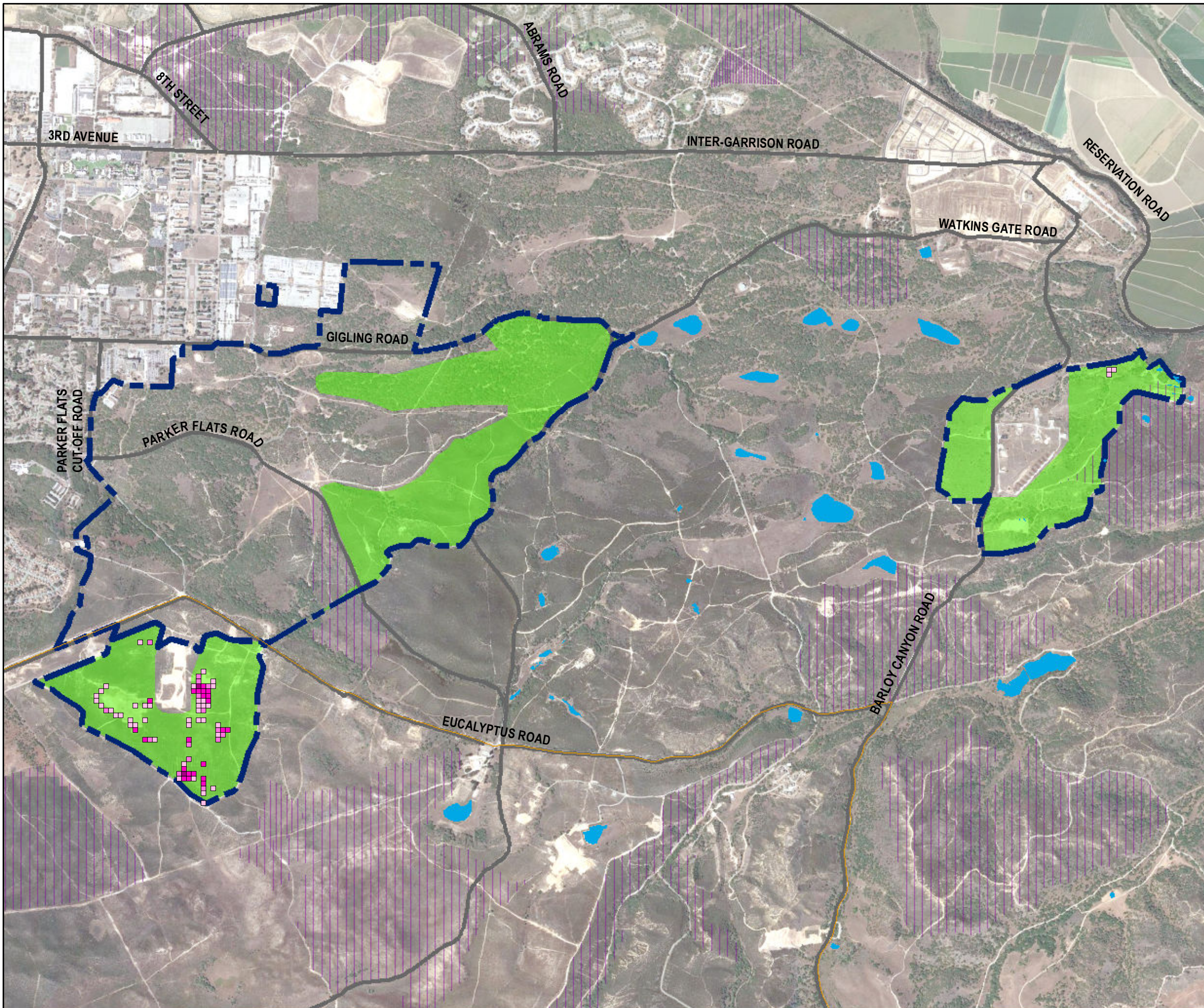


**2015 Annual Natural Resource Report**

**HMP Herbaceous Species in All Habitat Parcels - Monterey Spineflower**

FORA ESCA RP  
Monterey County, California

**Figure 7a**



### Legend

- Munitions Response Area
- Major Road
- Habitat Reserve
- Historical Impact Area
- Aquatic Features

**1992\* Species Density (Approx. # per Grid Cell)**

- 0-50 - Low\*
- 51-500 - Medium\*
- > 500 - High\*

**2015 Species Density (# per 10,000 sq. ft.)**  
(Survey areas shown outside of MRA habitat boundaries serve as reference locations)

- 1-50
- 51-100
- 101 - 500
- > 500

\*Source: Flora and Fauna Baseline Study of Fort Ord, California, Jones and Stokes Association Inc., December 1992.  
Note: HMP herbaceous species monitoring not required in Parker Flats MRA in 2015

**Former Fort Ord Location Map**

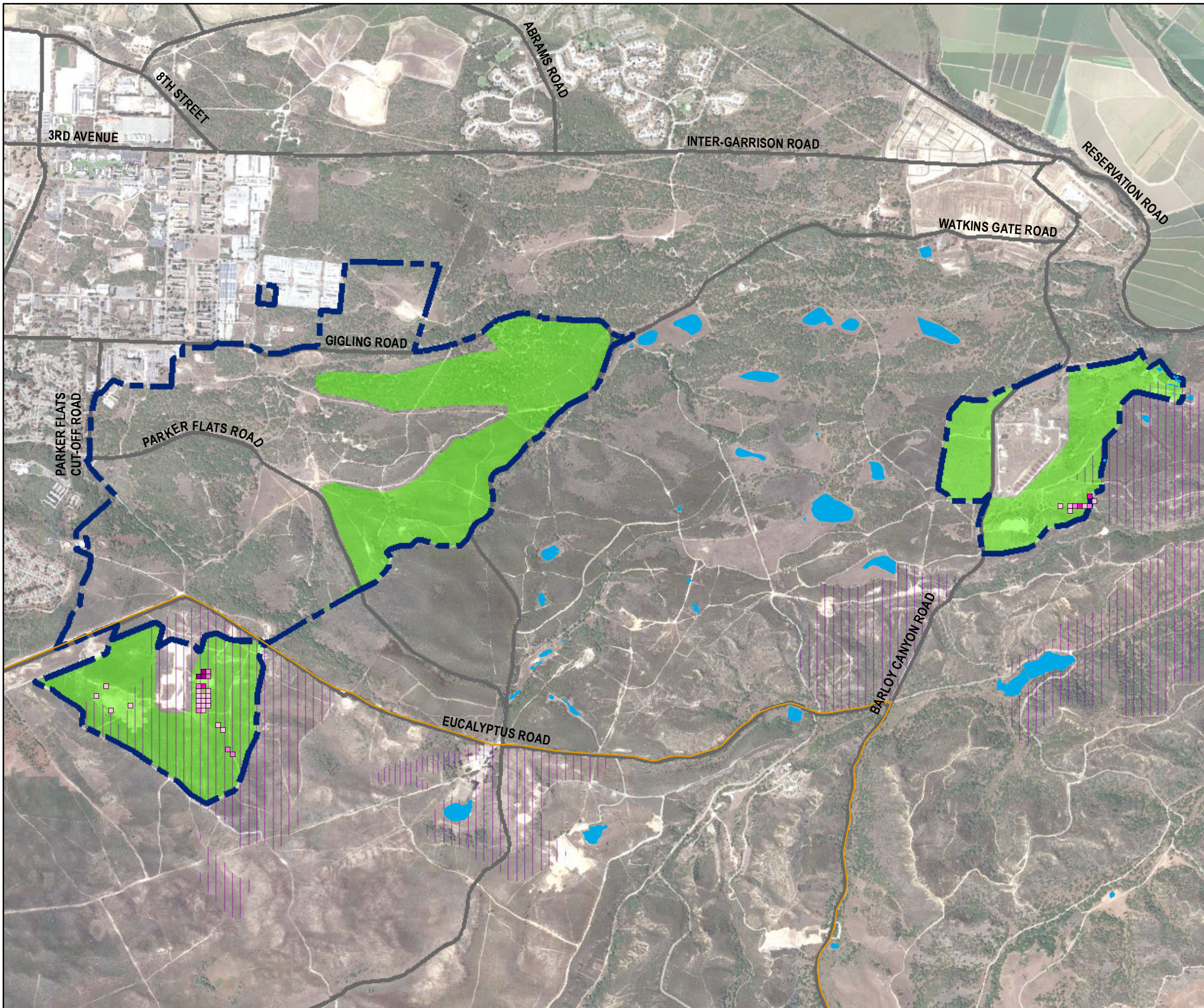
Aerial Source: Google Earth Pro,  
Accessed 11/21/2014 - Image Date: 8/25/2013

**2015 Annual Natural Resource Report**

**HMP Herbaceous Species in All Habitat Parcels - Monterey Gilia**

FORA ESCA RP  
Monterey County, California

**Figure 7b**



### Legend

- Munitions Response Area
- Major Road
- Habitat Reserve
- Historical Impact Area
- Aquatic Features

**1992\* Species Density (Approx. # per Grid Cell)**

- 0-50 - Low\*
- 51-500 - Medium\*
- > 500 - High\*

**2015 Species Density (# per 10,000 sq. ft.)**  
(Survey areas shown outside of MRA habitat boundaries serve as reference locations)

- 1-50
- 51-100
- 101 - 500
- > 500

\*Source: Flora and Fauna Baseline Study of Fort Ord, California, Jones and Stokes Association Inc., December 1992.  
Note: HMP herbaceous species monitoring not required in Parker Flats MRA in 2015

**Former Fort Ord Location Map**

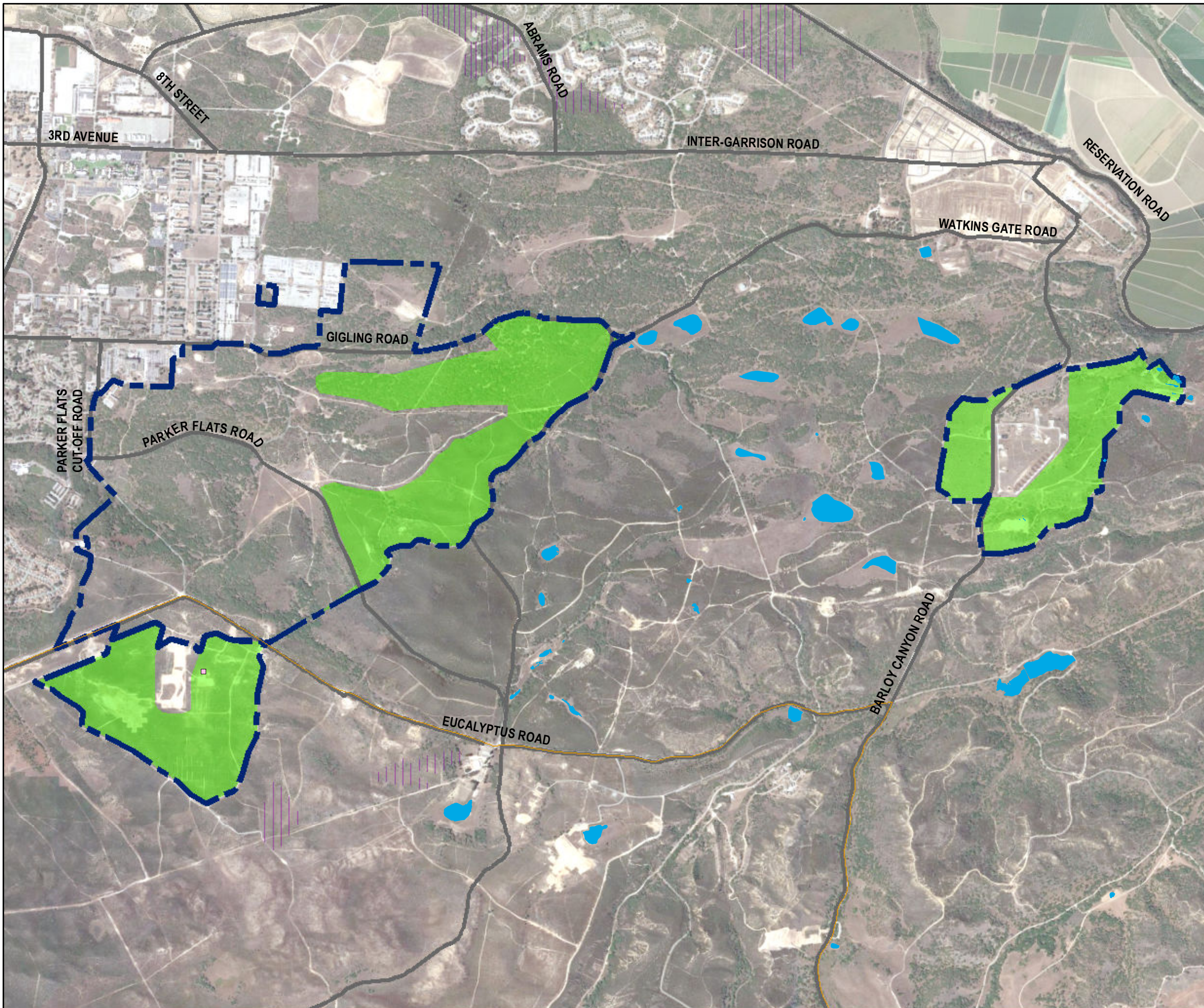
Aerial Source: Google Earth Pro,  
Accessed 11/21/2014 - Image Date: 8/25/2013

**2015 Annual Natural Resource Report**

**HMP Herbaceous Species in All Habitat Parcels - Seaside Bird's-beak**

FORA ESCA RP  
Monterey County, California




**Figure 7c**




### Legend

-  Munitions Response Area
-  Major Road
-  Habitat Reserve
-  Historical Impact Area
-  Aquatic Features

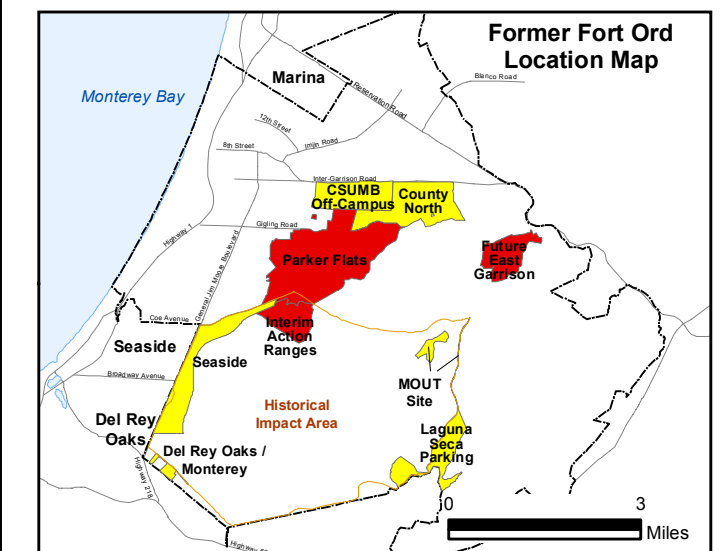
#### 1992\* Species Density (Approx. # per Grid Cell)

-  0-50 - Low\*
-  51-500 - Medium\*
-  > 500 - High\*

#### 2015 Species Density (# per 10,000 sq. ft.)




- (Survey areas shown outside of MRA habitat boundaries serve as reference locations)
-  1-50

\*Source: Flora and Fauna Baseline Study of Fort Ord, California, Jones and Stokes Association Inc., December 1992.  
 Note:  
 HMP herbaceous species monitoring not required in Parker Flats MRA in 2015

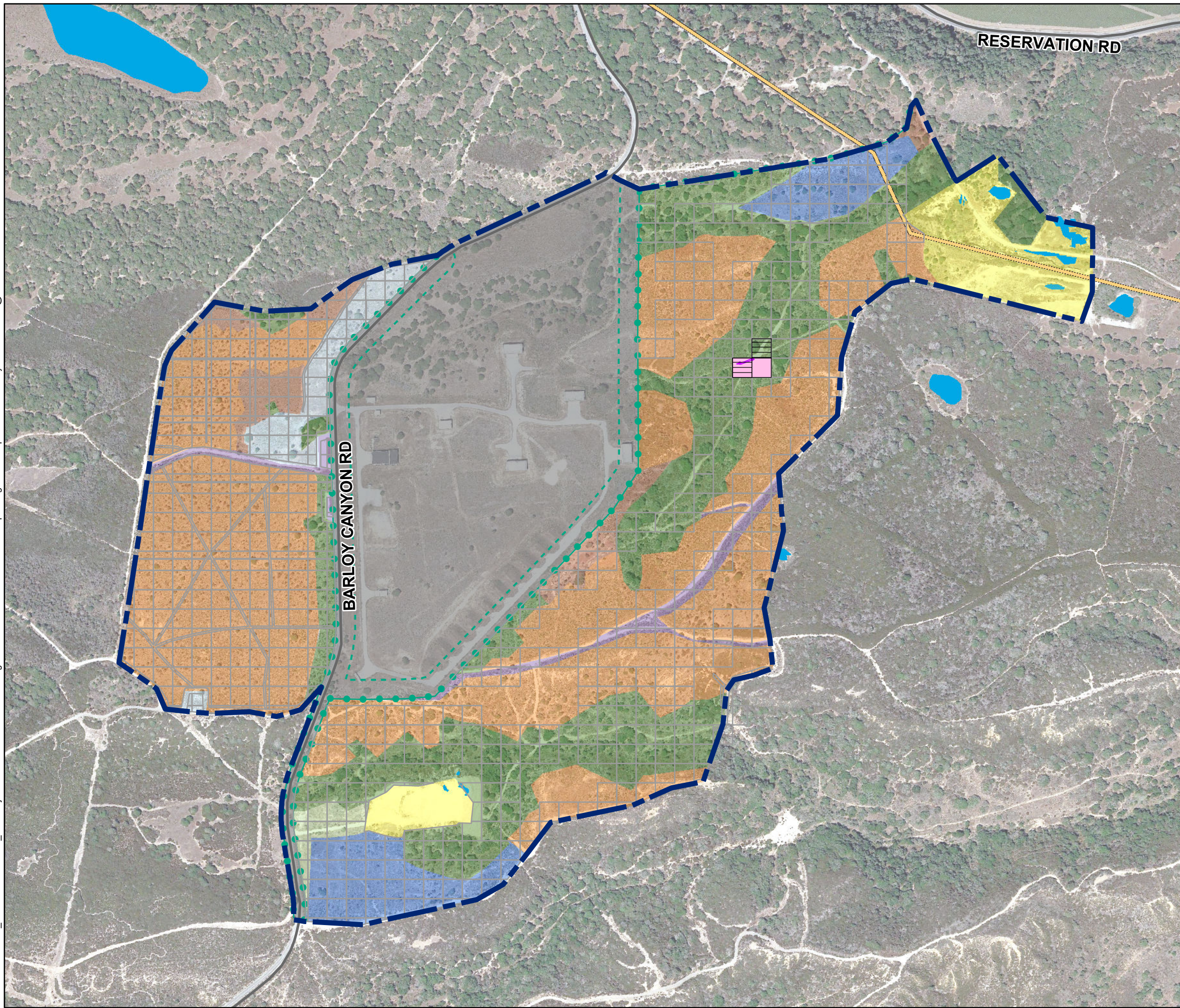


Aerial Source: Google Earth Pro,  
 Accessed 11/21/2014 - Image Date: 8/25/2013

0 2,000 4,000 Feet

  	<b>2015 Annual Natural Resource Report</b>  <b>HMP Herbaceous Species in All Habitat Parcels - Coast Wallflower</b>  FORA ESCA RP Monterey County, California
	<b>Figure 7d</b>

Z:\GISPROJECTS\ENV\FIOrd\095956\_GIS\Projects\AIMRAs\Habitat Monitoring\2015 Annual Natural Resource Report\Fig 8a FEG Spineflower Density.mxd 2/1/2016 @ 2:04:41 PM



### Legend

- Munitions Response Area
- Major Road
- Natural Gas Pipeline
- Development Parcel
- Borderland Interface
- 100-Foot Buffer from Borderland Interface
- Aquatic Features

### Vegetation Types

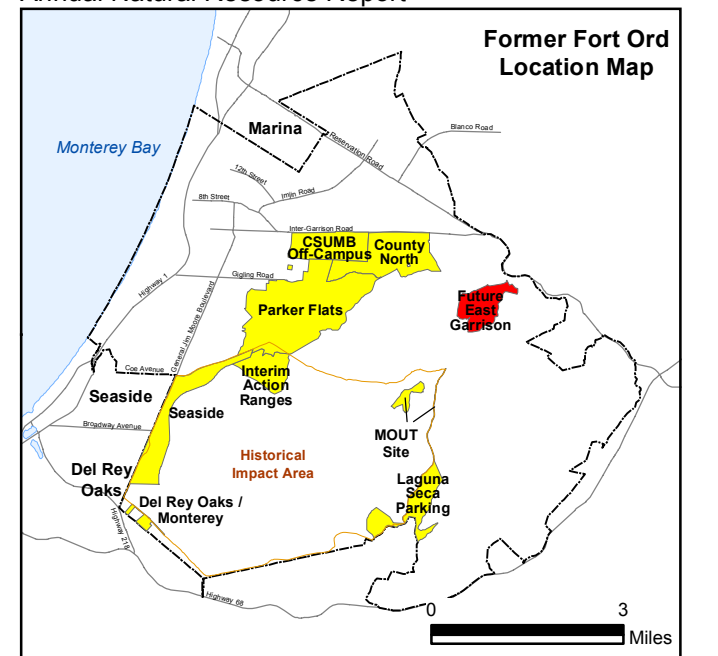
- Central Maritime Chaparral
- Chamise-dominated Chaparral
- Low Quality Disturbed Chaparral
- Coast Live Oak Woodland
- Grassland
- Ruderal and Cleared Areas
- Low Recruitment Area
- Roadways and Fuel Breaks

### 2015 Species Density (# per 10,000 sq. ft.)

(Survey areas shown outside of MRA habitat boundaries serve as reference locations)

0	101-500
1-50	2015 Occupied Habitat and Sample Plots
51-100	Baseline Grid

Note: Vegetation mapping modified from 2011 Annual Natural Resource Report



Aerial Source: Google Earth Pro,  
 Accessed 11/21/2014 - Image Date: 8/25/2013

0 500 1,000 Feet



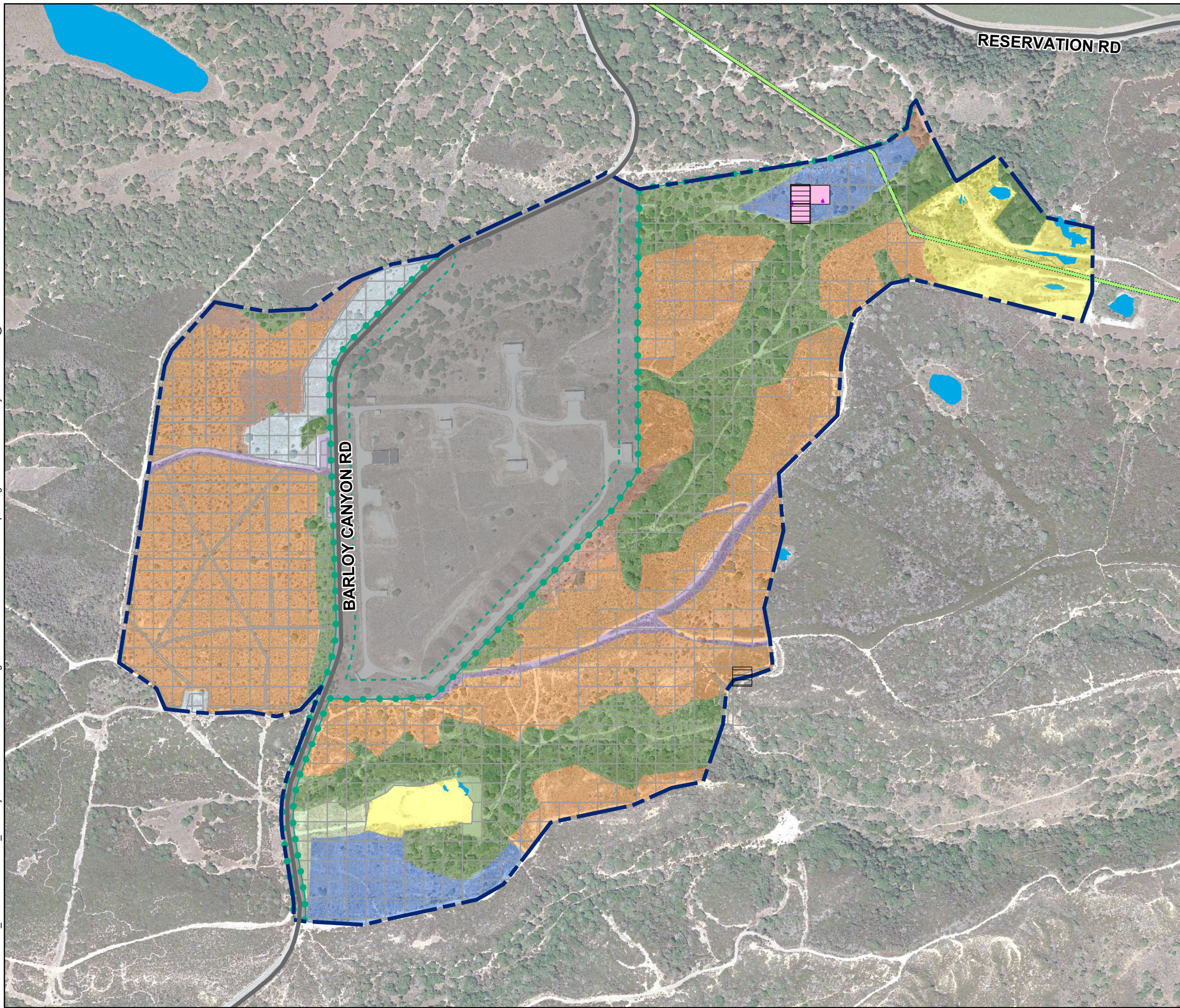
2015 Annual Natural Resource Report

HMP Herbaceous Species in the Future East Garrison MRA - Monterey Spineflower

FORA ESCA RP  
 Monterey County, California

**Figure 8a**

Z:\GISPROJECTS\ENV\FIOrd\095956\_GIS\Projects\AIMRAs\Habitat Monitoring\2015 Annual Natural Resource Report\Fig 8b FEG Gilia Density.mxd 2/1/2016 @ 2:11:17 PM



### Legend

- Munitions Response Area
- Major Road
- Natural Gas Pipeline
- Development Parcel
- Borderland Interface
- 100-Foot Buffer from Borderland Interface
- Aquatic Features

### Vegetation Types

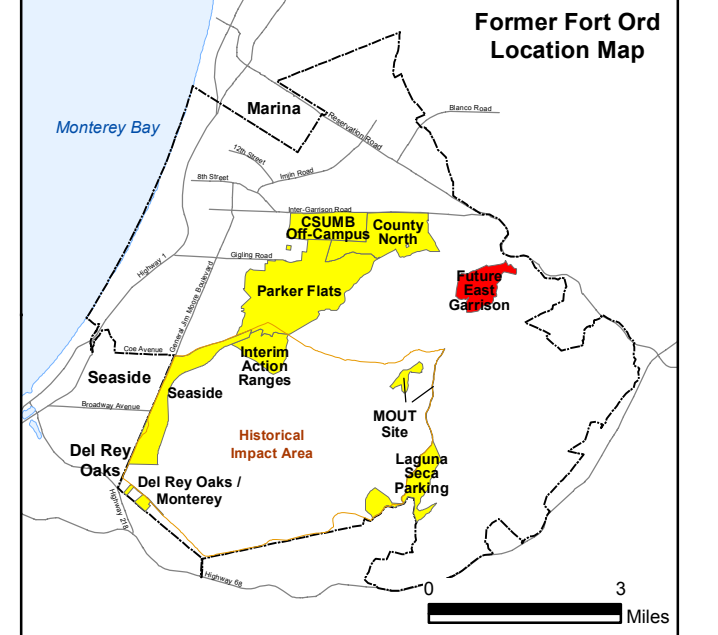
- Central Maritime Chaparral
- Chamise-dominated Chaparral
- Low Quality Disturbed Chaparral
- Coast Live Oak Woodland
- Grassland
- Ruderal and Cleared Areas
- Low Recruitment Area
- Roadways and Fuel Breaks

### 2015 Species Density (# per 10,000 sq. ft.)

(Survey areas shown outside of MRA habitat boundaries serve as reference locations)

- 0
- 1-50
- 2015 Occupied Habitat and Sample Plots
- Baseline Grid

Note: Vegetation mapping modified from 2011 Annual Natural Resource Report



Aerial Source: Google Earth Pro,  
 Accessed 11/21/2014 - Image Date: 8/25/2013

0 500 1,000 Feet

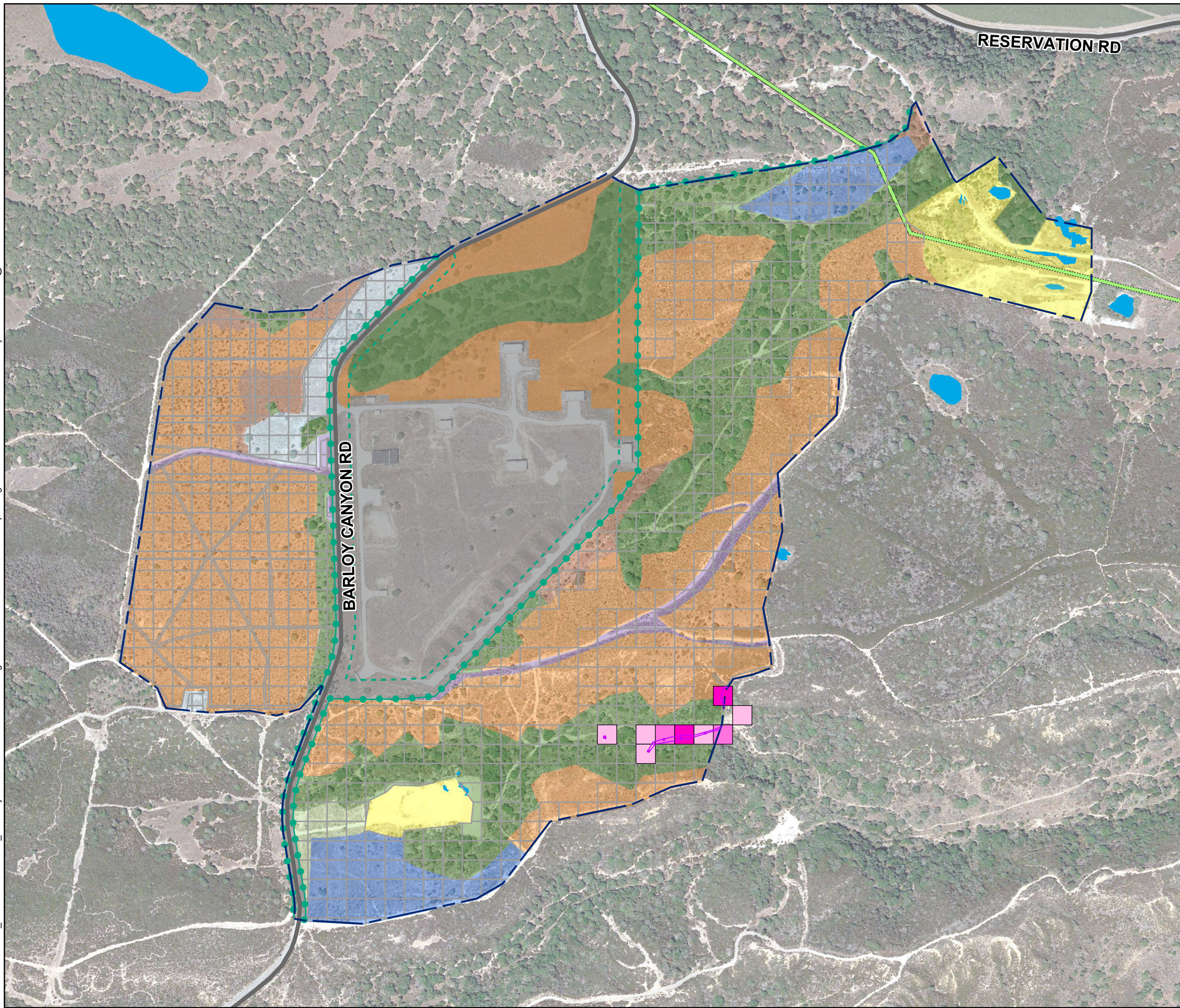
**2015 Annual Natural Resource Report**

**HMP Herbaceous Species in the Future East Garrison MRA - Monterey Gilia**

FORA ESCA RP  
 Monterey County, California

**Figure 8b**

Z:\GISPROJECTS\ENV\FIORd\095956\_GIS\Projects\AIMRAs\Habitat Monitoring\2015 Annual Natural Resource Report\Fig 8c FEC Seaside Birdsbeak Density.mxd 2/5/2016 @ 9:43:23 AM



### Legend

- Munitions Response Area
- Major Road
- Natural Gas Pipeline
- Development Parcel
- Borderland Interface
- 100-Foot Buffer from Borderland Interface
- Aquatic Features

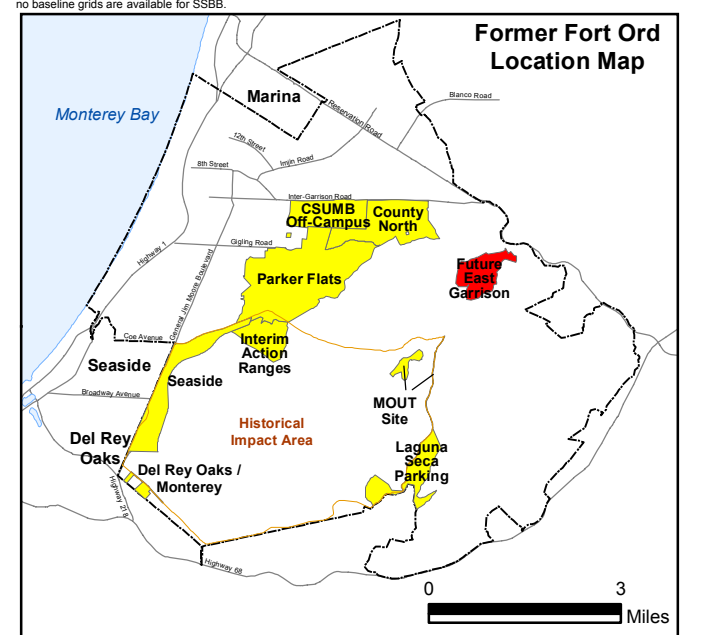
### Vegetation Types

- Central Maritime Chaparral
- Chamise-dominated Chaparral
- Low Quality Disturbed Chaparral
- Coast Live Oak Woodland
- Grassland
- Ruderal and Cleared Areas
- Low Recruitment Area
- Roadways and Fuel Breaks

### 2015 Species Density (# per 10,000 sq. ft.)

(Survey areas shown outside of MRA habitat boundaries serve as reference locations)

<span style="display: inline-block; width: 15px; height: 10px; background-color: white;"></span> 0	<span style="display: inline-block; width: 15px; height: 10px; background-color: magenta;"></span> 101-500
<span style="display: inline-block; width: 15px; height: 10px; background-color: pink;"></span> 1-50	<span style="display: inline-block; width: 15px; height: 10px; border: 1px solid magenta;"></span> 2015 Occupied Habitat and Sample Plots
<span style="display: inline-block; width: 15px; height: 10px; background-color: magenta;"></span> 51-100	



Aerial Source: Google Earth Pro,  
 Accessed 11/21/2014 - Image Date: 8/25/2013

0 500 1,000 Feet



**2015 Annual Natural Resource Report**

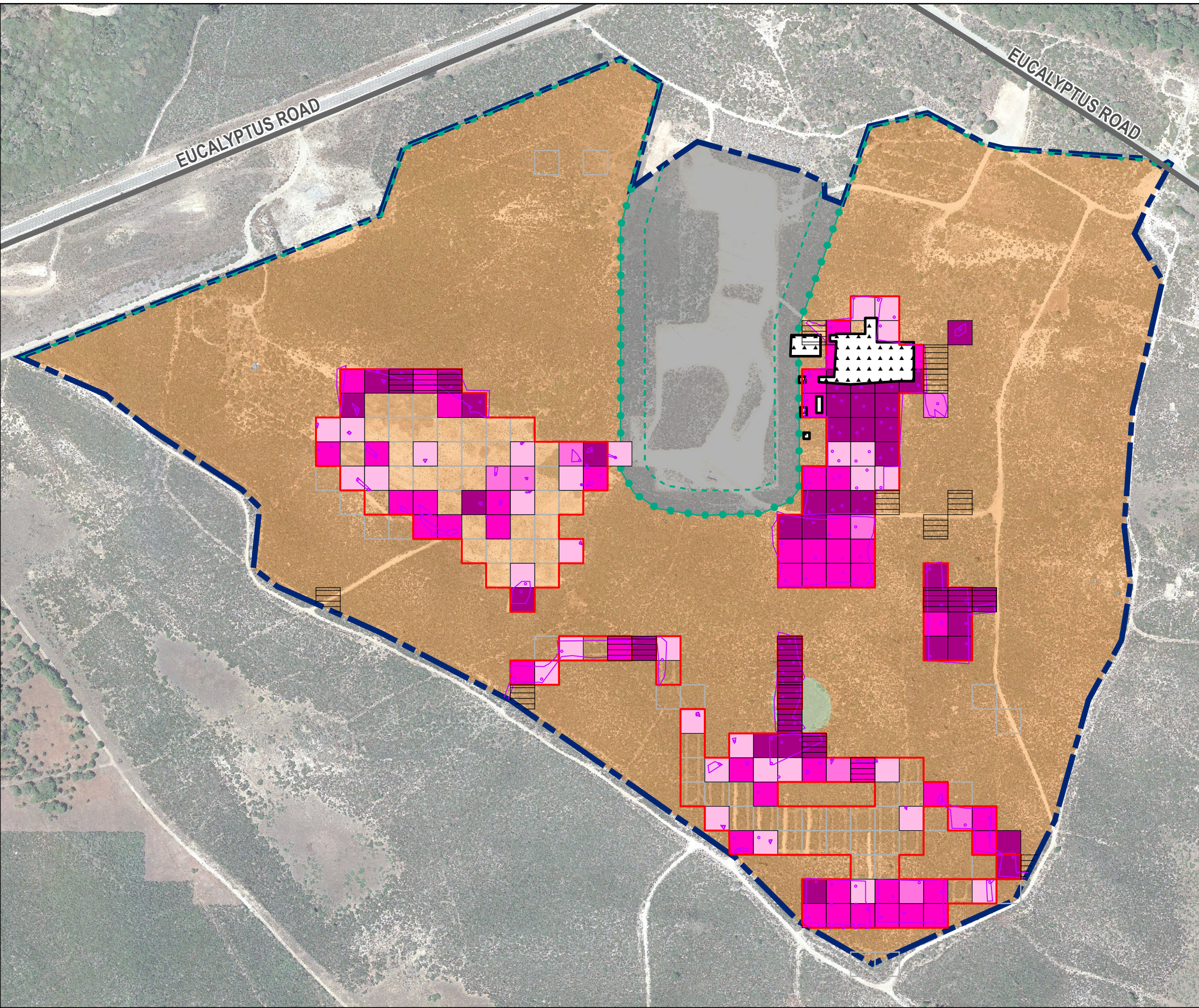
**HMP Herbaceous Species in the Future East Garrison MRA - Seaside Bird's Beak**

FORA ESCA RP  
 Monterey County, California

**Figure 8c**



Document Path: Z:\GIS\PROJECTS\ ENV\FORd\095956\_GIS\Projects\AIMRAs\Habitat\_Monitoring\2015 Annual Natural Resource Report\Fig 9a Spineflower IAR Habitat Density.mxd



### Legend

- Munitions Response Area
- Major Road
- Development Parcel
- Borderland Interface
- 100-Foot Buffer from Borderland Interface
- Special Case and Non-Completed Areas (Work Areas)
- Site 39 (HA44) US Army Action

#### Vegetation Types\*

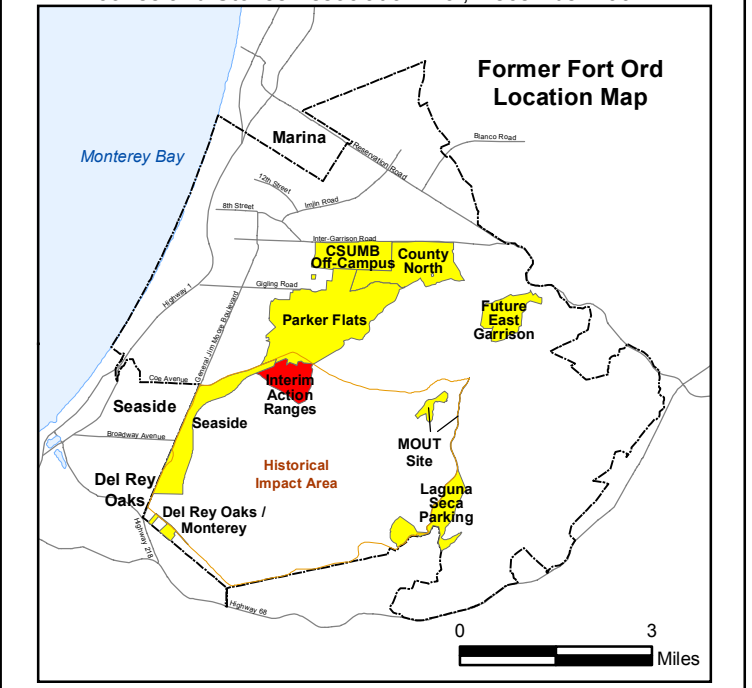
- Central Maritime Chaparral
- Grassland

#### 2015 Species Density (# per 10,000 sq. ft.)

(Survey areas shown outside of MRA habitat boundaries serve as reference locations)

<span style="background-color: white; width: 20px; height: 10px; display: inline-block;"></span> 0	<span style="background-color: magenta; width: 20px; height: 10px; display: inline-block;"></span> 101-500
<span style="background-color: pink; width: 20px; height: 10px; display: inline-block;"></span> 1-50	<span style="background-color: purple; width: 20px; height: 10px; display: inline-block;"></span> 501-10,000
<span style="background-color: lightpink; width: 20px; height: 10px; display: inline-block;"></span> 51-100	<span style="border: 1px solid magenta; width: 20px; height: 10px; display: inline-block;"></span> 2015 Occupied Habitat and Sample Plots
	<span style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></span> Baseline Grid

\*Source: Flora and Fauna Baseline Study of Fort Ord, California, Jones and Stokes Association Inc., December 1992.



Aerial Source: Google Earth Pro,  
 Accessed 4/17/2014 - Image Date: 8/25/2013

0 400 800 Feet



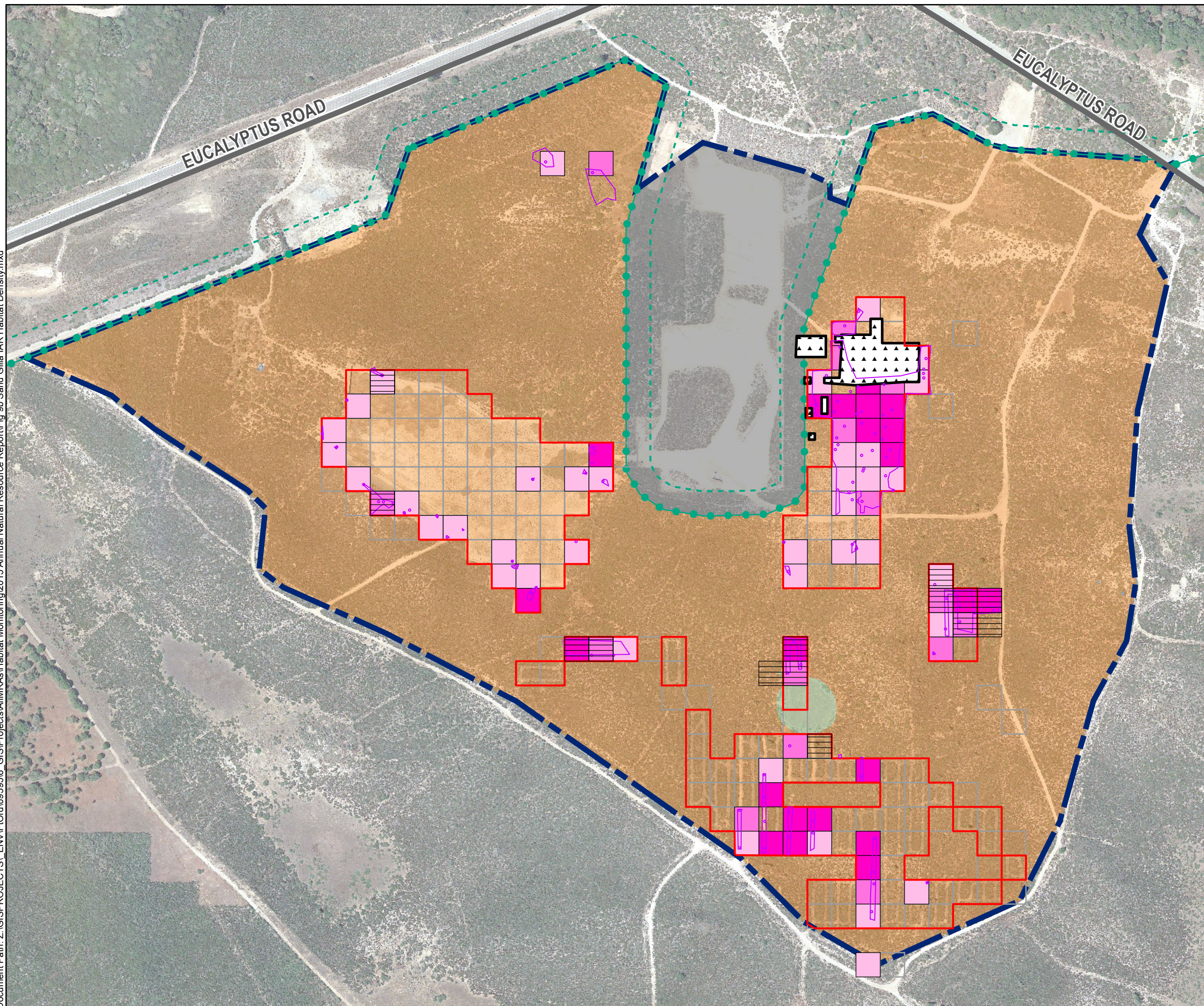
2015 Annual Natural Resource Report

**HMP Herbaceous Species in the Interim Action Ranges MRA Monterey Spineflower**

FORA ESCA RP  
 Monterey County, California

**Figure 9a**

Document Path: Z:\GIS\PROJECTS\ ENV\FORd\095956\_GIS\Projects\AIMRAs\Habitat\_Monitoring\2015 Annual Natural Resource Report\Fig 9b Sand Gilia IAR Habitat Density.mxd



### Legend

- Munitions Response Area
- Major Road
- Development Parcel
- Borderland Interface
- 100-Foot Buffer from Borderland Interface
- Special Case and Non-Completed Areas (Work Areas)
- Site 39 (HA44) US Army Action

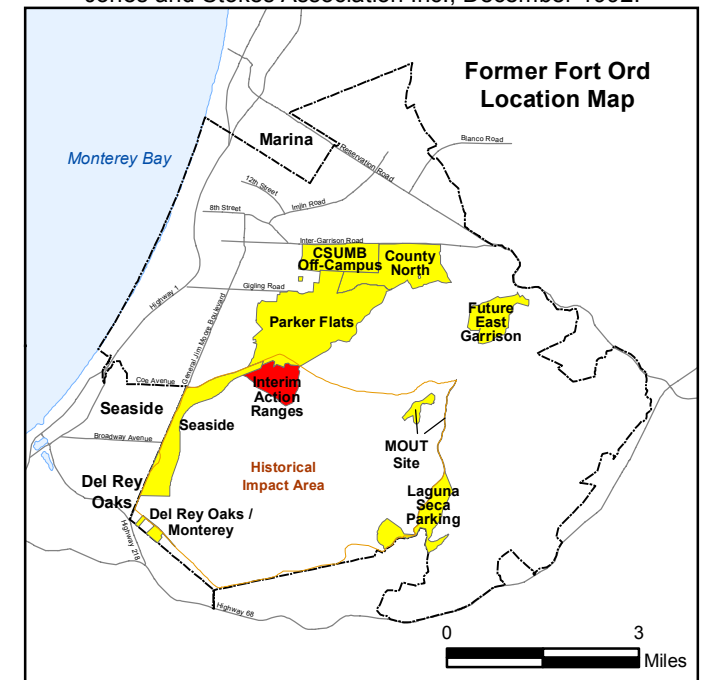
### Vegetation Types\*

- Central Maritime Chaparral
- Grassland

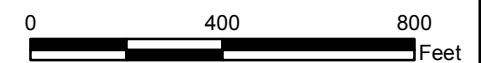
**2015 Species Density (# per 10,000 sq. ft.)**  
(Survey areas shown outside of MRA habitat boundaries serve as reference locations)

- |        |  |
|--------|--|
| 0      | 101-500                                |
| 1-50   | 2015 Occupied Habitat and Sample Plots |
| 51-100 | Baseline Grid                          |

\*Source: Flora and Fauna Baseline Study of Fort Ord, California, Jones and Stokes Association Inc., December 1992.



Aerial Source: Google Earth Pro,  
Accessed 4/17/2014 - Image Date: 8/25/2013



**ARCADIS**

**WESTON SOLUTIONS**



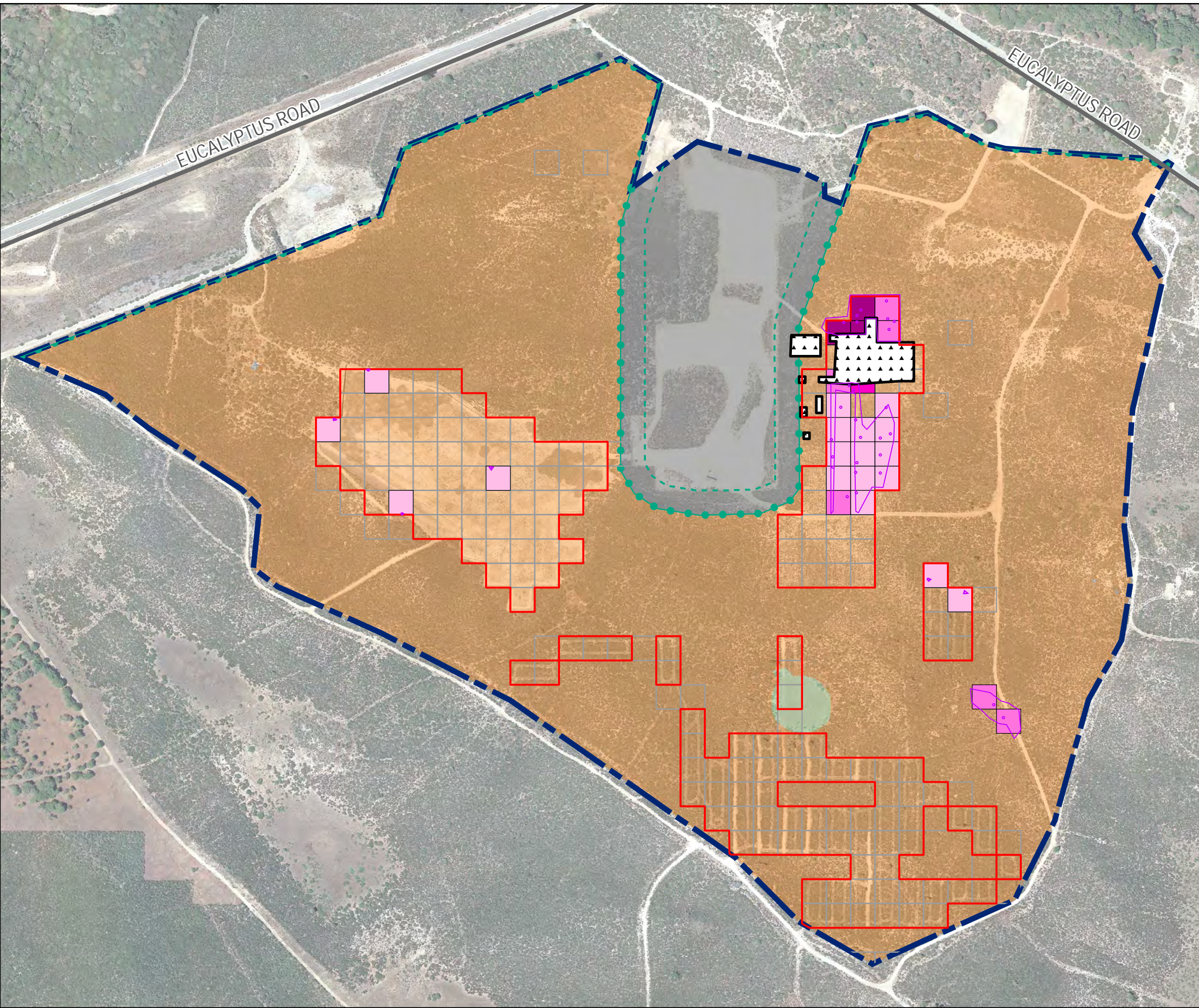
2015 Annual Natural Resource Report

HMP Herbaceous Species in the  
Interim Action Ranges MRA  
Monterey Gilia

FORA ESCA RP  
Monterey County, California

**Figure 9b**

Document Path: \\corpstorage\data\GIS\PROJECTS\ ENV\F\Ord\095956\GIS\PROJECTS\IMRA\Habitat Monitoring\2015 Annual Natural Resource Report\Fig 9c Birds Beak IAR Habitat Density\_v2.mxd



### Legend

- Munitions Response Area
- Major Road
- Development Parcel
- Borderland Interface
- 100-Foot Buffer from Borderland Interface
- Special Case and Non-Completed Areas (Work Areas)
- ▲
▲
▲
▲
 Site 39 (HA44) US Army Action

### Vegetation Types\*

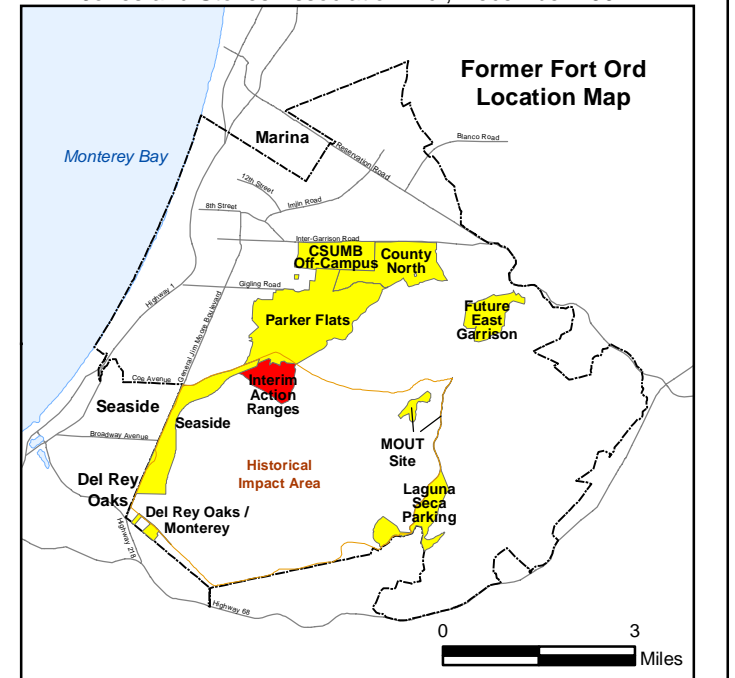
- Central Maritime Chaparral
- Grassland

### 2015 Species Density (# per 10,000 sq. ft.)

(Survey areas shown outside of MRA habitat boundaries serve as reference locations)

<span style="background-color: white; border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></span> 0	<span style="background-color: magenta; width: 20px; height: 10px; display: inline-block;"></span> 101-500
<span style="background-color: pink; width: 20px; height: 10px; display: inline-block;"></span> 1-50	<span style="background-color: purple; width: 20px; height: 10px; display: inline-block;"></span> >500
<span style="background-color: lightpink; width: 20px; height: 10px; display: inline-block;"></span> 51-100	<span style="border: 2px solid magenta; width: 20px; height: 10px; display: inline-block;"></span> 2015 Occupied Habitat and Sample Plots

\*Source: Flora and Fauna Baseline Study of Fort Ord, California, Jones and Stokes Association Inc., December 1992.

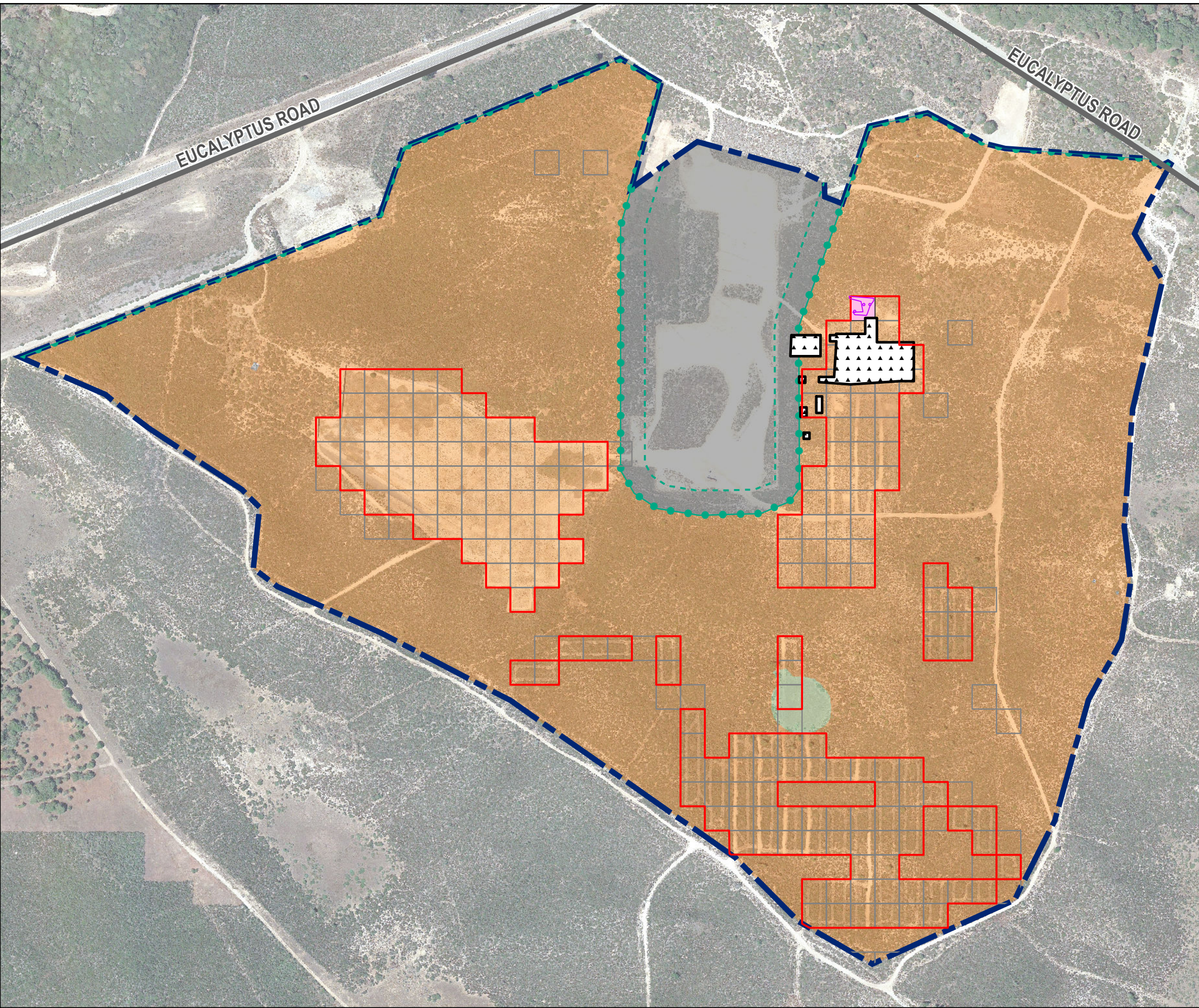


Aerial Source: Google Earth Pro,  
 Accessed 4/17/2014 - Image Date: 8/25/2013

2015 Annual Natural Resource Report  
**HMP Herbaceous Species in the Interim Action Ranges MRA Seaside Bird's-Beak**  
 FORA ESCA RP  
 Monterey County, California

**Figure 9c**

Document Path: Z:\GIS\PROJECTS\ ENV\FortOrd\095956\_GIS\Projects\AIMRAs\Habitat\_Monitoring\2015 Annual Natural Resource Report\Fig 9d Wallflower IAR Habitat Density.mxd

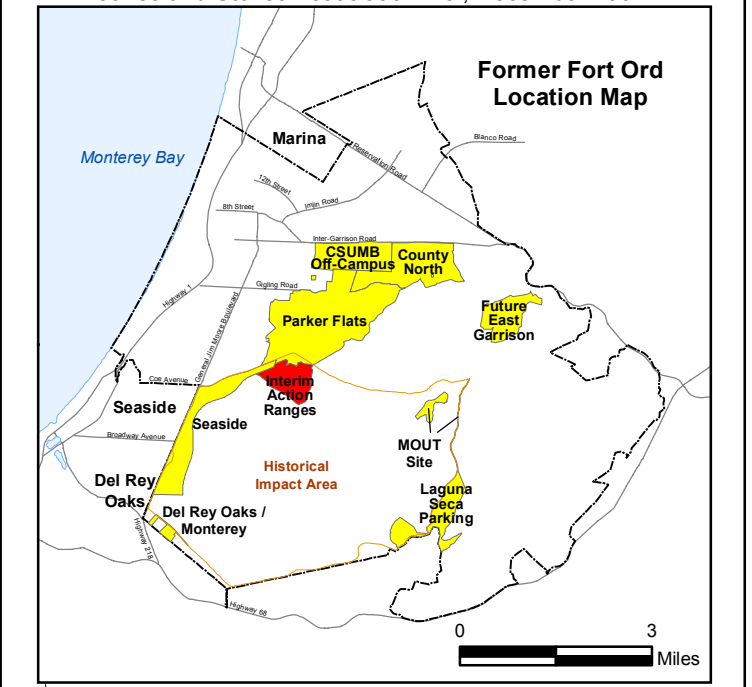


**Legend**

- Munitions Response Area
  - Major Road
  - Development Parcel
  - Borderland Interface
  - - - 100-Foot Buffer from Borderland Interface
  - Special Case and Non-Completed Areas (Work Areas)
  - ▲ ▲ Site 39 (HA44) US Army Action
- Vegetation Types\***
- Central Maritime Chaparral
  - Grassland
- 2015 Species Density (# per 10,000 sq. ft.)**  
(Survey areas shown outside of MRA habitat boundaries serve as reference locations)
- |  |   |
|--|---|
| <span style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></span> 0                                       | <span style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; background-color: #cccccc;"></span> Baseline Grid |
| <span style="background-color: #ffccff; width: 20px; height: 10px; display: inline-block;"></span> 1-50                                  |   |
| <span style="border: 2px solid purple; width: 20px; height: 10px; display: inline-block;"></span> 2015 Occupied Habitat and Sample Plots |   |

NOTE: Coast wallflower was not observed by ESCA RP biologists in the IAR MRA until 2013. As a result, there are no baseline grids for coast wallflower.

\*Source: Flora and Fauna Baseline Study of Fort Ord, California, Jones and Stokes Association Inc., December 1992.



Aerial Source: Google Earth Pro, Accessed 4/17/2014 - Image Date: 8/25/2013

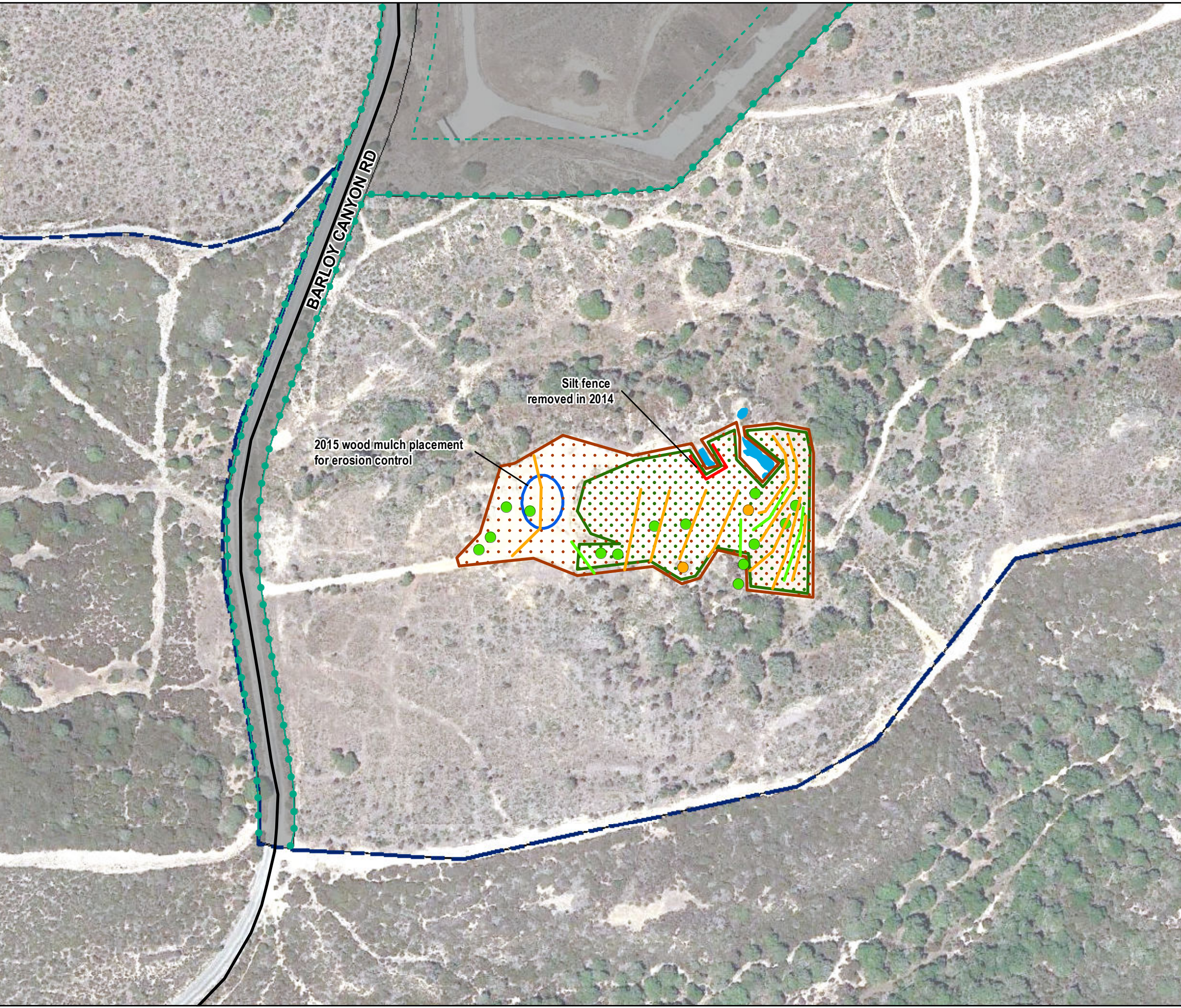
0 400 800 Feet



2015 Annual Natural Resource Report  
**HMP Herbaceous Species in the Interim Action Ranges MRA Coast Wallflower**  
 FORA ESCA RP  
 Monterey County, California

**Figure 9d**

Z:\GIS\PROJECTS\_ENV\FortOrd\095956\_GIS\Projects\AIMRAs\Habitat\_Monitoring\2015 Annual Natural Resource Report\Fig 10a Erosion Monitoring - FEG.mxd 12/10/2015 @ 11:35:30 AM

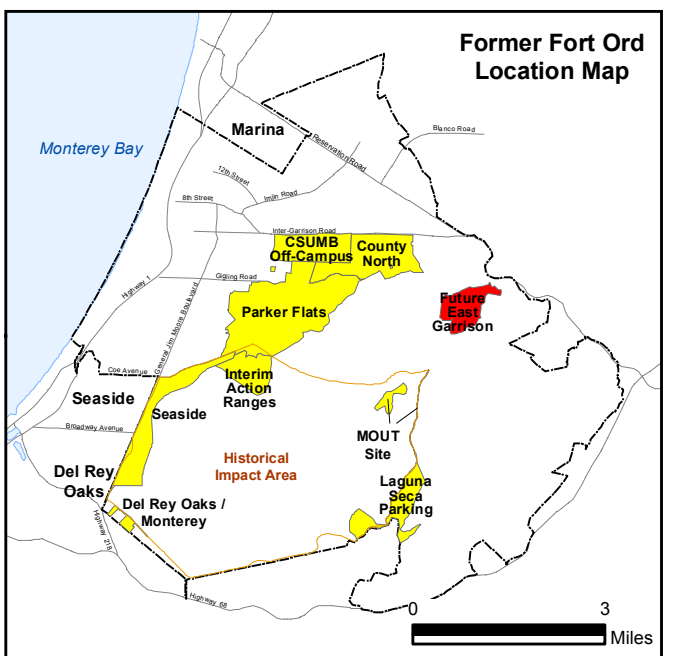


### Legend

- Major Road
- Munitions Response Area
- Development Parcel
- Aquatic Features
- Borderland Interface
- 100-Foot Buffer from Borderland Interface

### Erosion Control Measures

- 2013 Sand Bags/Straw Bales/ Erosion Control Blanket
- 2014 Sand Bags/Straw Bales/ Erosion Control Blanket
- 2013 Silt Fencing
- 2013 Straw Wattles/Water Bars
- 2014 Straw Wattles/Water Bars
- 2013 Hydroseed Areas
- 2014 Hydroseed Areas
- 2015 Wood Mulch



Aerial Source: Google Earth Pro,  
 Accessed 11/21/2014 - Image Date: 8/25/2013

0 170 340 Feet



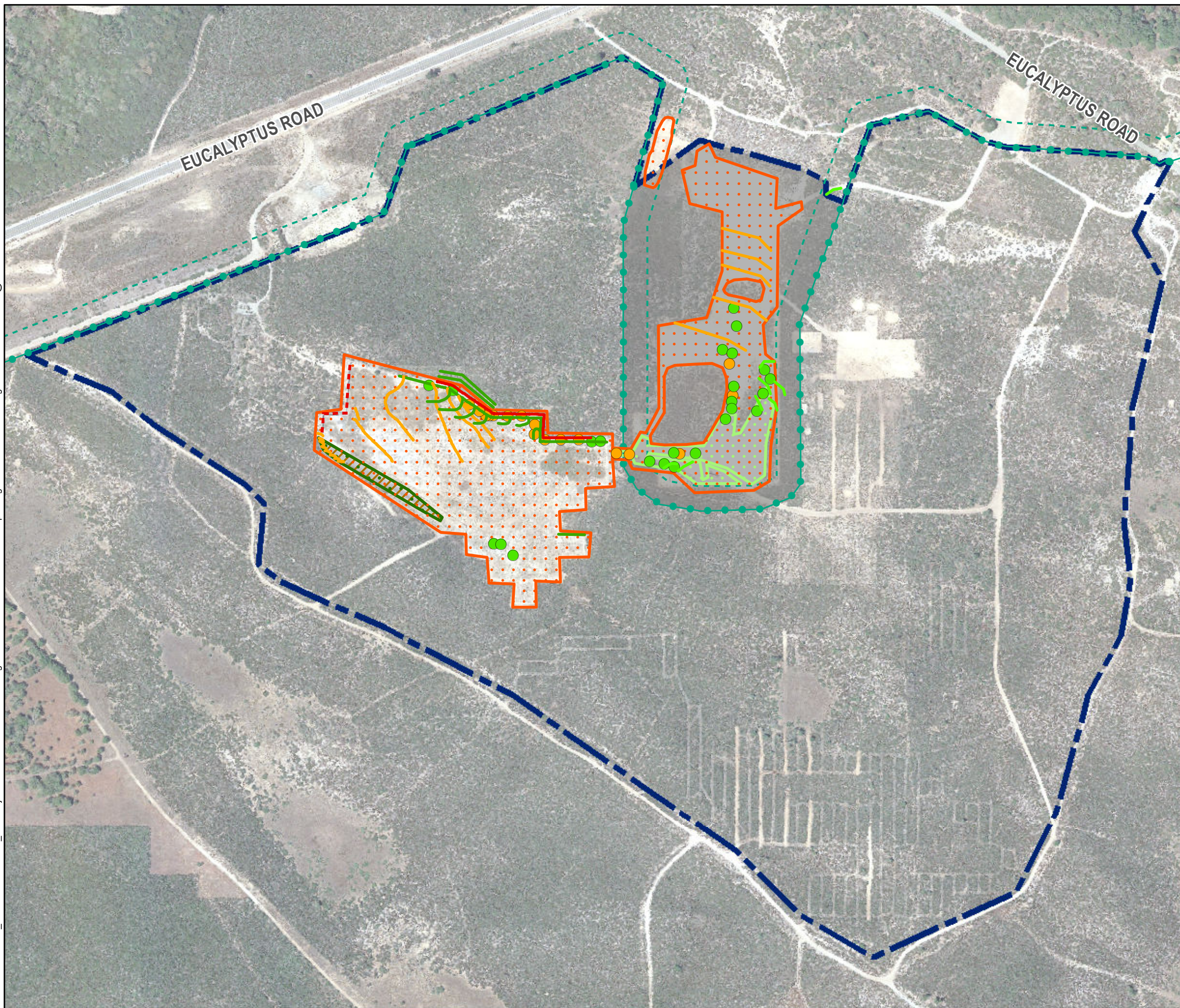
2015 Annual Natural Resource Report

**Erosion Control BMPs in Future East Garrison MRA 2013-2015**

FORA ESCA RP  
 Monterey County, California

**Figure 10a**

Z:\GIS\PROJECTS\_ENV\FORTORD\095956\_GIS\Projects\A\IMRAs\Habitat\_Monitoring\2015 Annual Natural Resource Report\Fig 10b Erosion Monitoring - IAR.mxd 12/10/2015 @ 1:59:32 PM

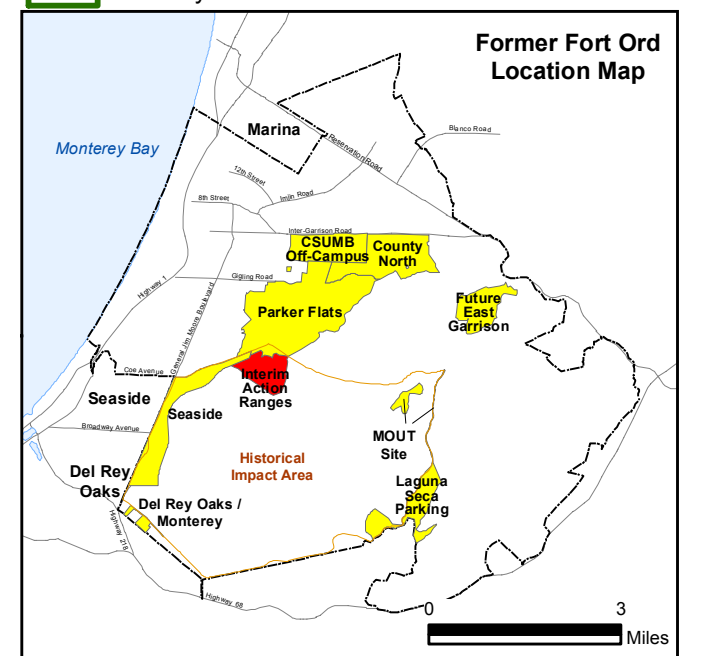


### Legend

- Major Road
- - - Munitions Response Area
- ▭ Development Parcel
- Borderland Interface
- - - 100-Foot Buffer from Borderland Interface

### Erosion Control Measures

- 2013 Silt Fencing
- - - 2013 Wind Screen
- 2013 Straw Wattles/Water Bars
- 2014 Silt Fencing
- 2014 Straw Wattles/Water Bars
- 2013 Sand Bags/Straw Bales/Erosion Control Blanket
- 2014 Sand Bags/Straw Bales/Erosion Control Blanket
- ▭ 2013 Hydromulch Areas
- ▭ 2013 Erosion Control Blanket
- ▭ 2014 Hydromulch Areas
- ▭ 2014 Hydroseed Areas



Aerial Source: Google Earth Pro,  
 Accessed 11/21/2014 - Image Date: 8/25/2013

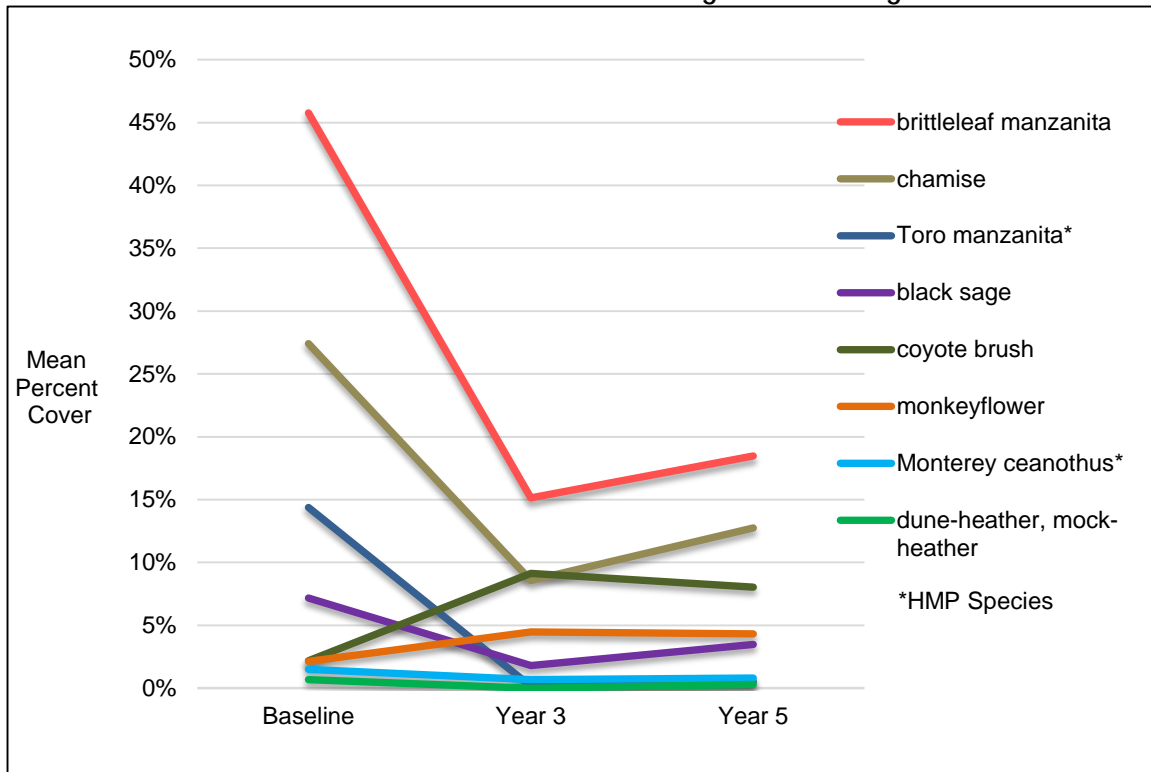
0 400 800 Feet



2015 Annual Natural Resource Report  
**Erosion Control BMPs in Interim Action Ranges MRA 2013-2015**  
 FORA ESCA RP  
 Monterey County, California

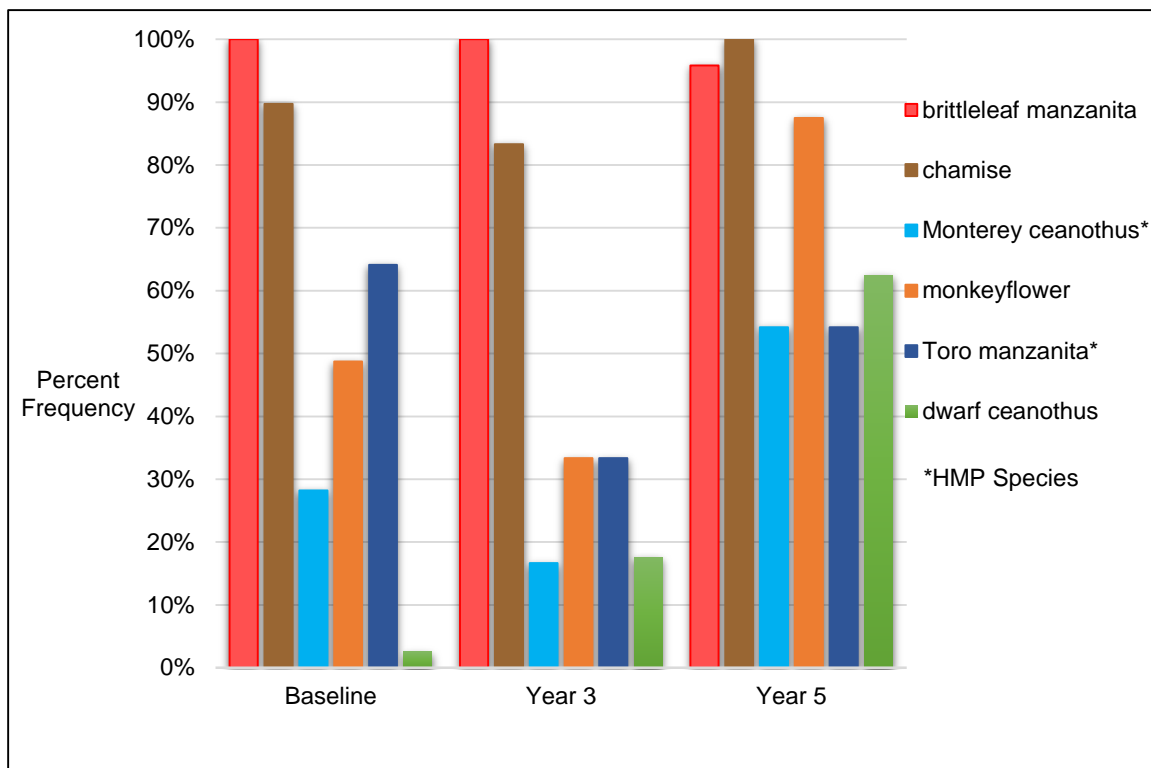
Figure 10b

**Figure 11**  
**Future East Garrison MRA – Mean Shrub Cover after Vegetation Cutting**



Unlike Year 3 and Year 4 HMP shrub data from the Future East Garrison MRA, Year 5 data represents only 5 transects. Additional Year 5 transects will be sampled in 2016.

**Figure 12**  
**Future East Garrison MRA – Mean Frequency of Shrub Species after Vegetation Cutting**



Unlike Year 3 and Year 4 HMP shrub data from the Future East Garrison MRA, Year 5 data represents only 5 transects. Additional Year 5 transects will be sampled in 2016.

Figure 13  
 Future East Garrison MRA – Mean Shrub Cover after Small-scale Excavation

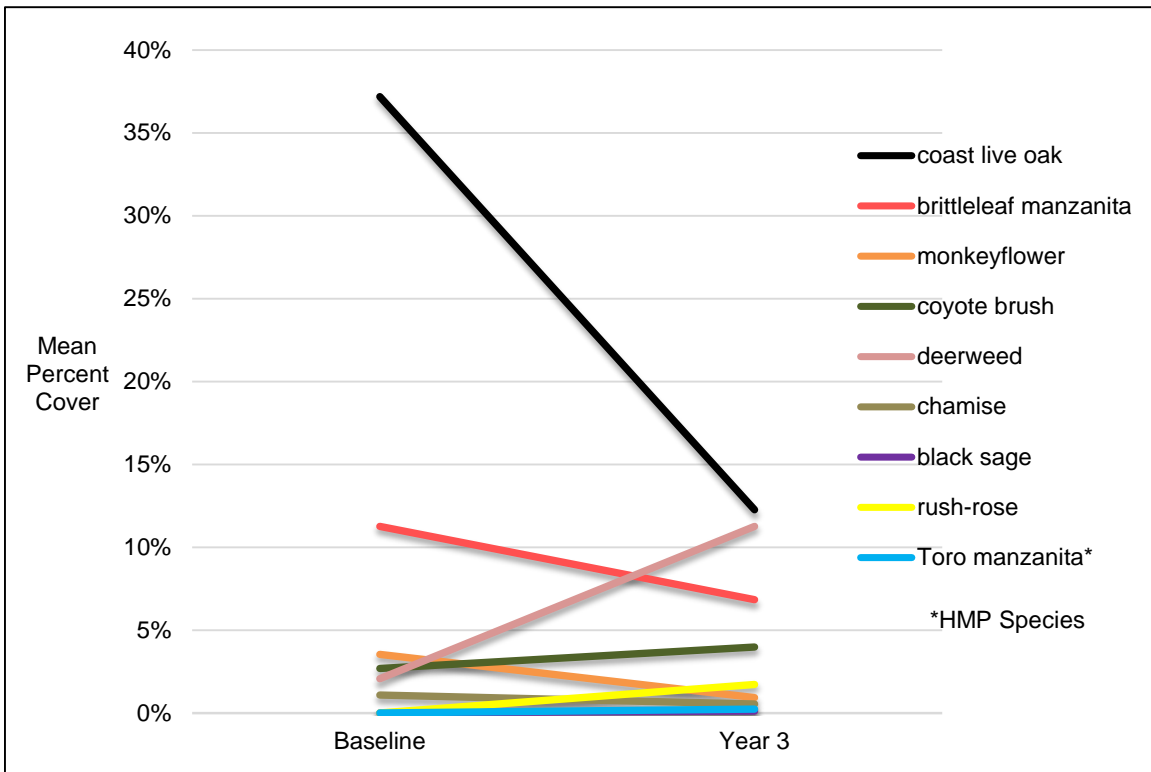
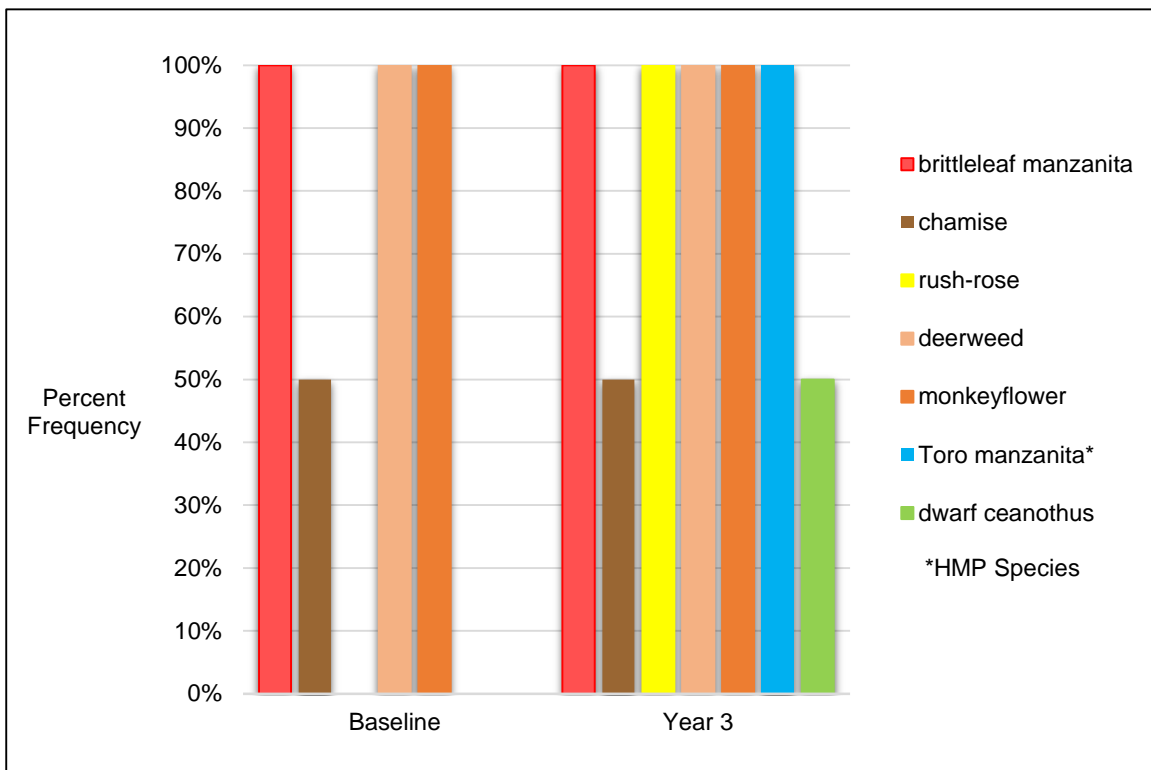
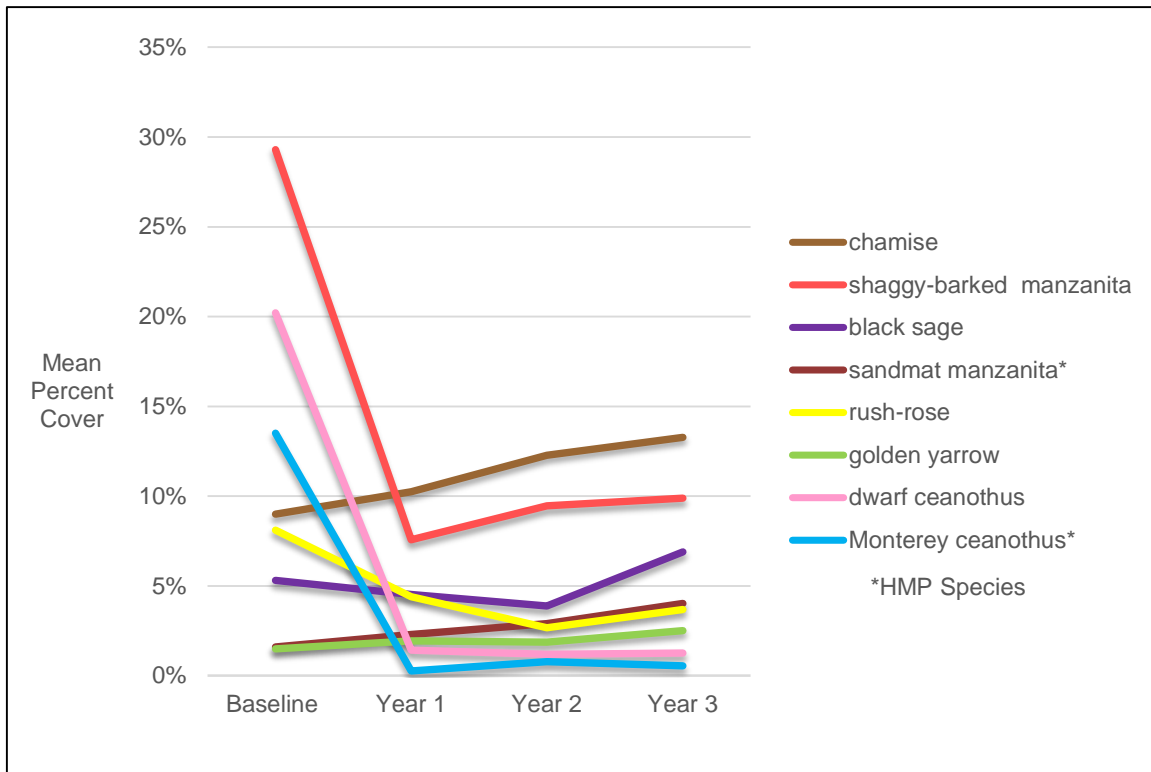


Figure 14  
 Future East Garrison MRA – Mean Frequency of Shrub Species after Small-scale Excavation





**Figure 15**  
Interim Action Range MRA North Range 44 SCA- Mean Shrub Cover after Vegetation Cutting



**Figure 16**  
Interim Action Ranges MRA North Range 44 SCA - Mean Frequency of Shrub Species after Vegetation Cutting

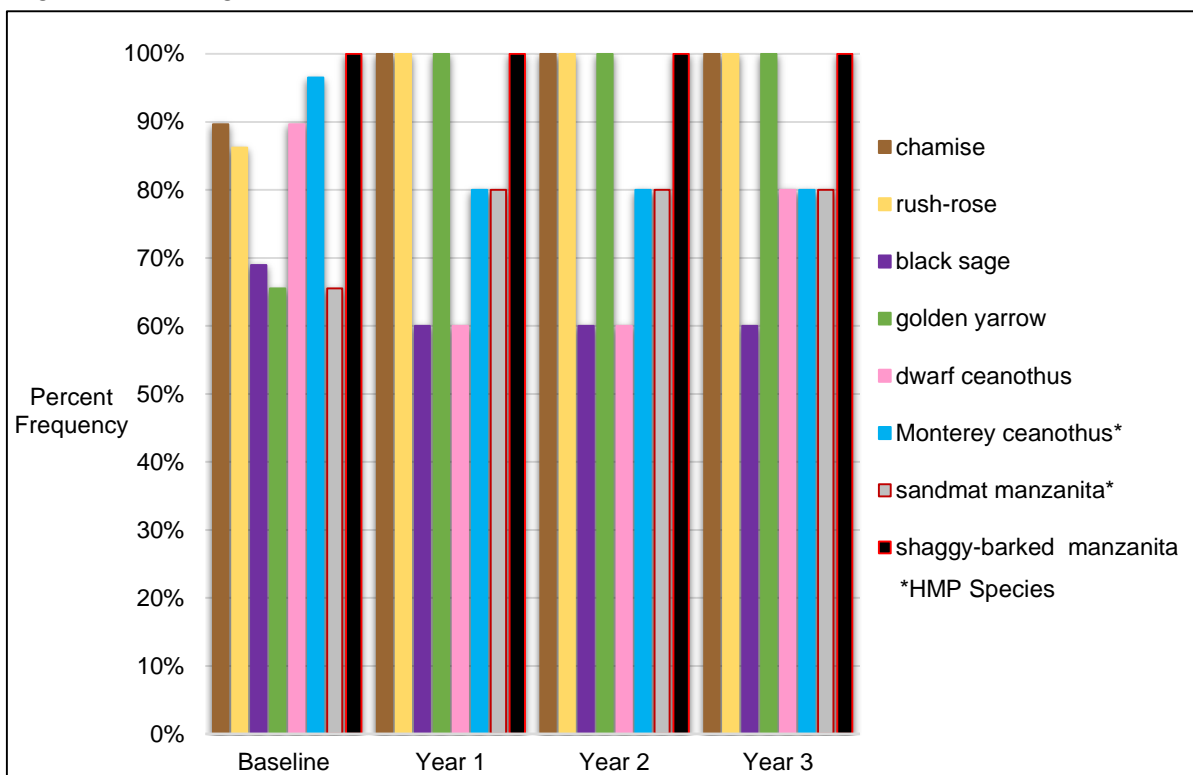


Figure 17  
Interim Action Ranges MRA South Range 44 SCA and Central Area NCAs – Mean Shrub Cover after Vegetation Cutting

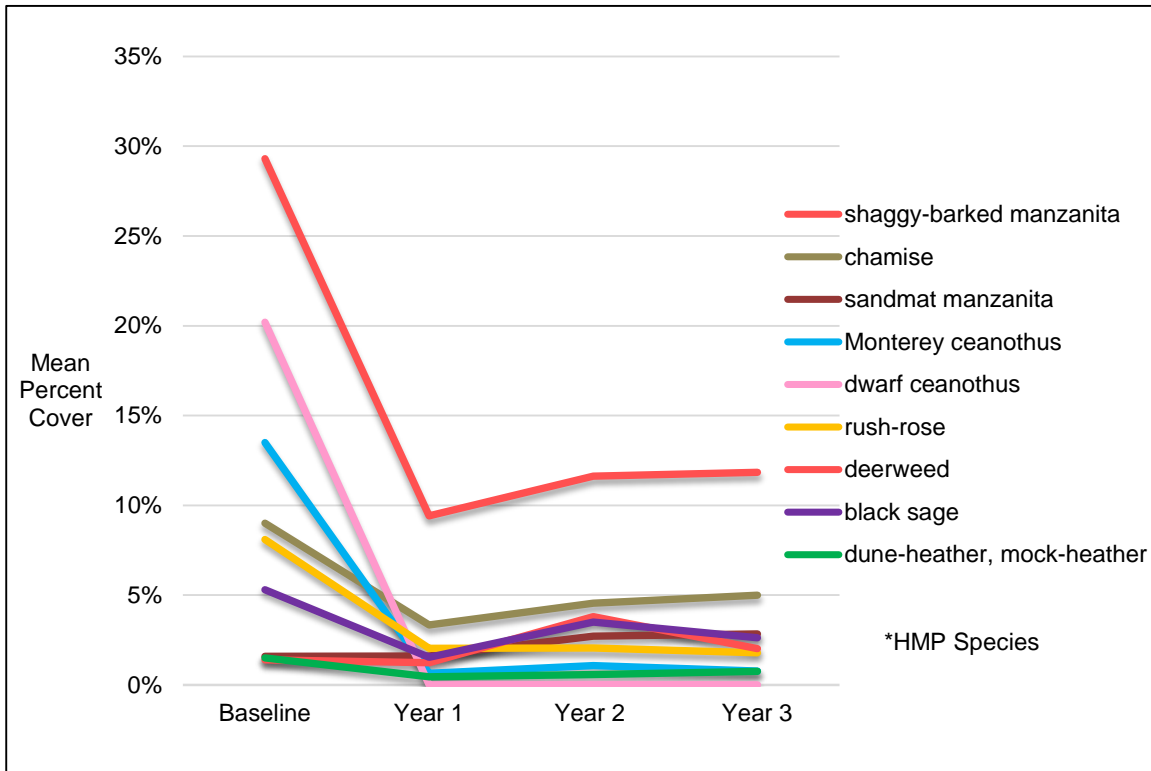
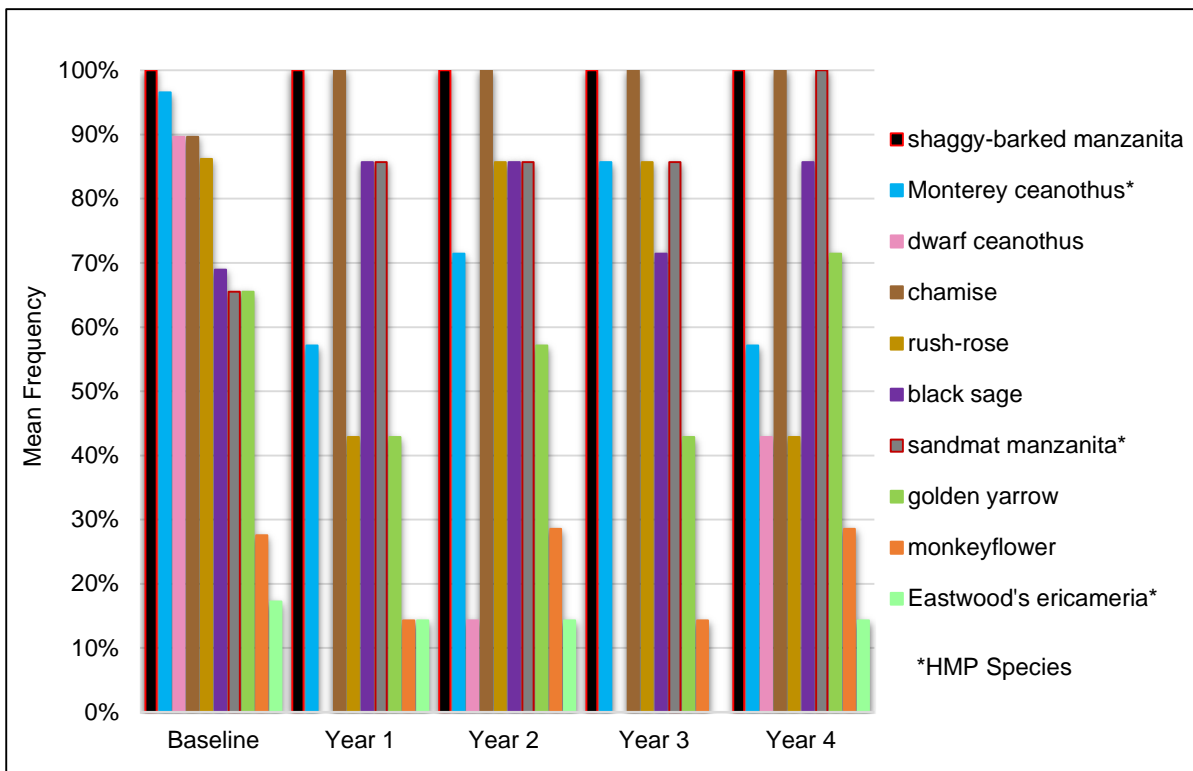
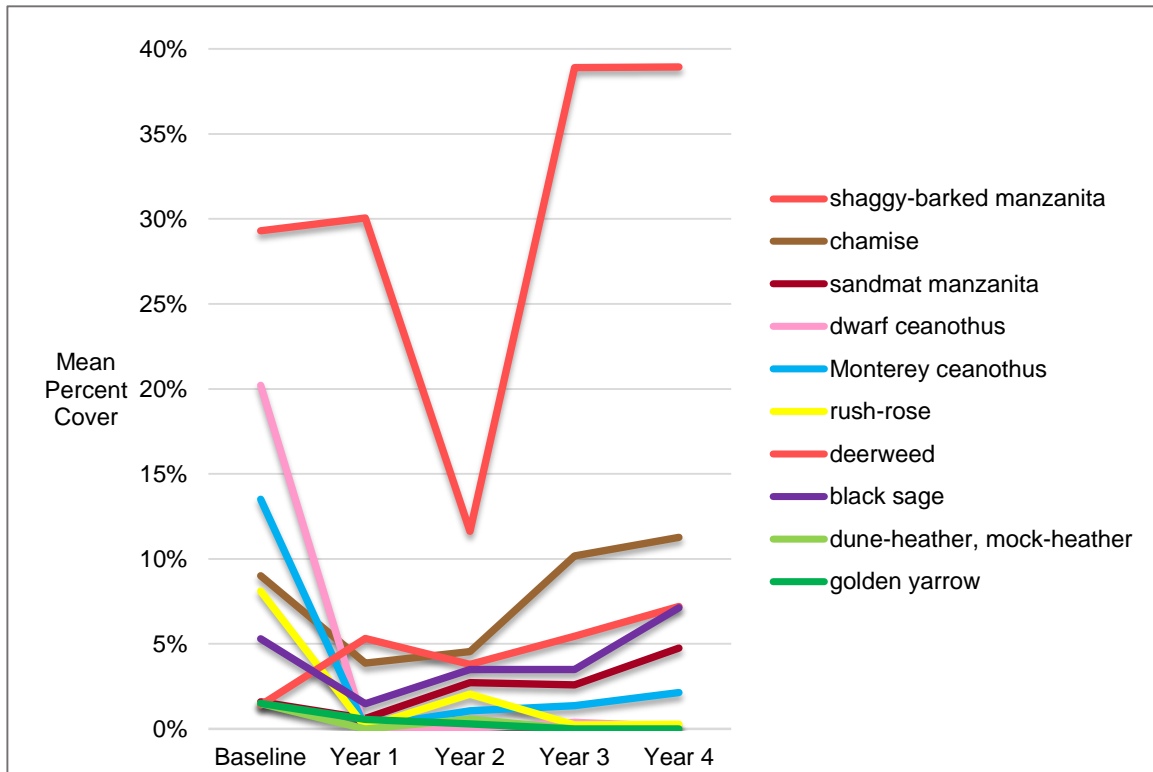


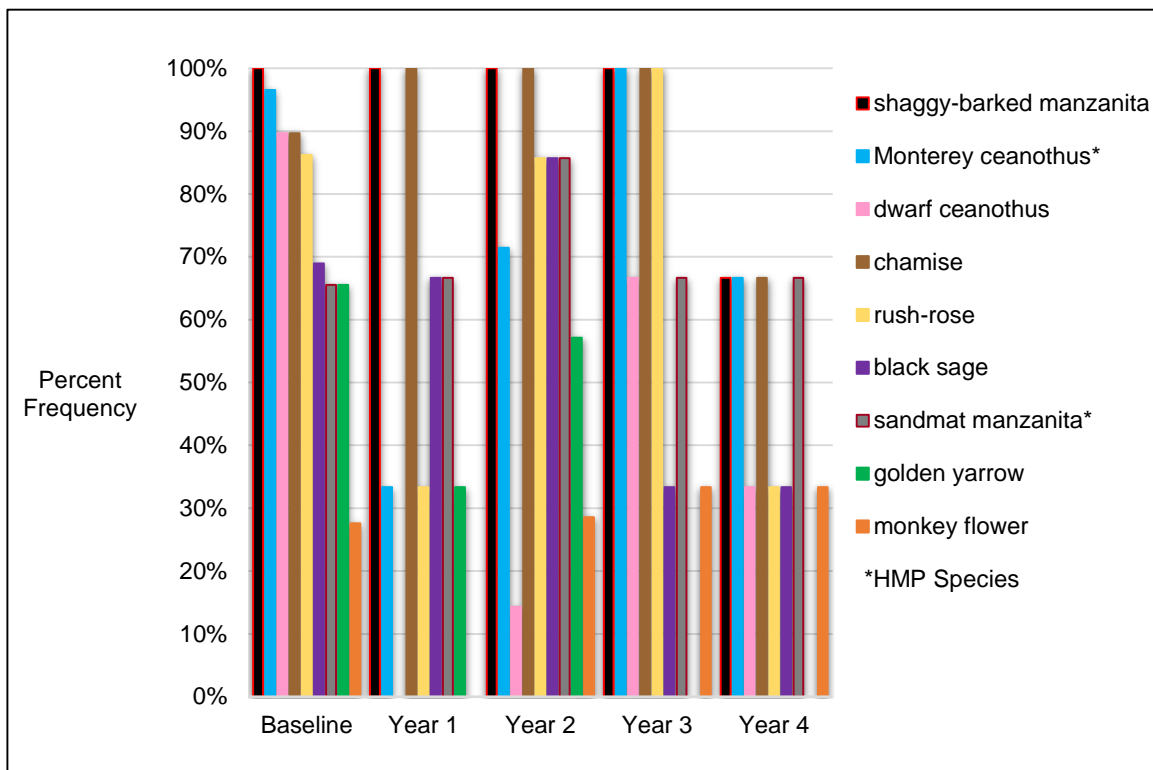
Figure 18  
Interim Action Ranges MRA South Range 44 SCA and Central NCAs – Mean Frequency of Shrub Species after Vegetation Cutting



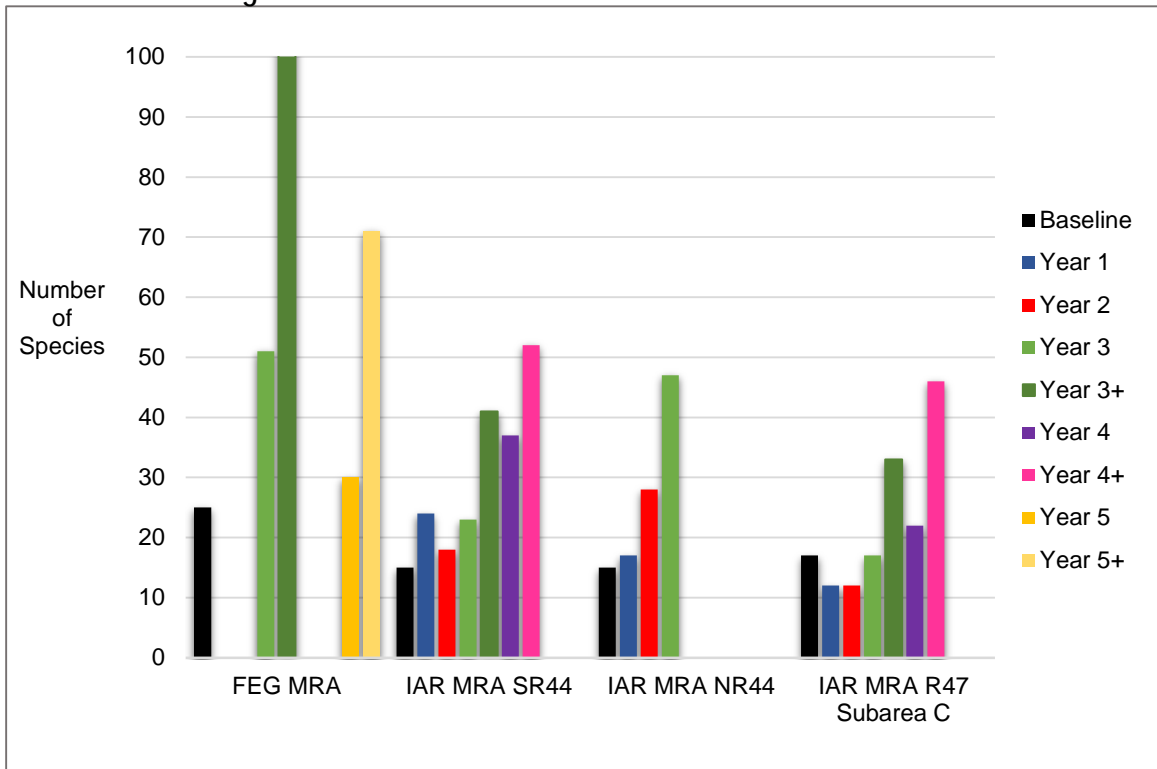
**Figure 19**  
Interim Action Ranges MRA Range 47 SCA Subarea C – Mean Shrub Cover after Vegetation Cutting



**Figure 20**  
Interim Action Ranges MRA Range 47 SCA Subarea C – Mean Frequency of Shrub Species after Vegetation Cutting

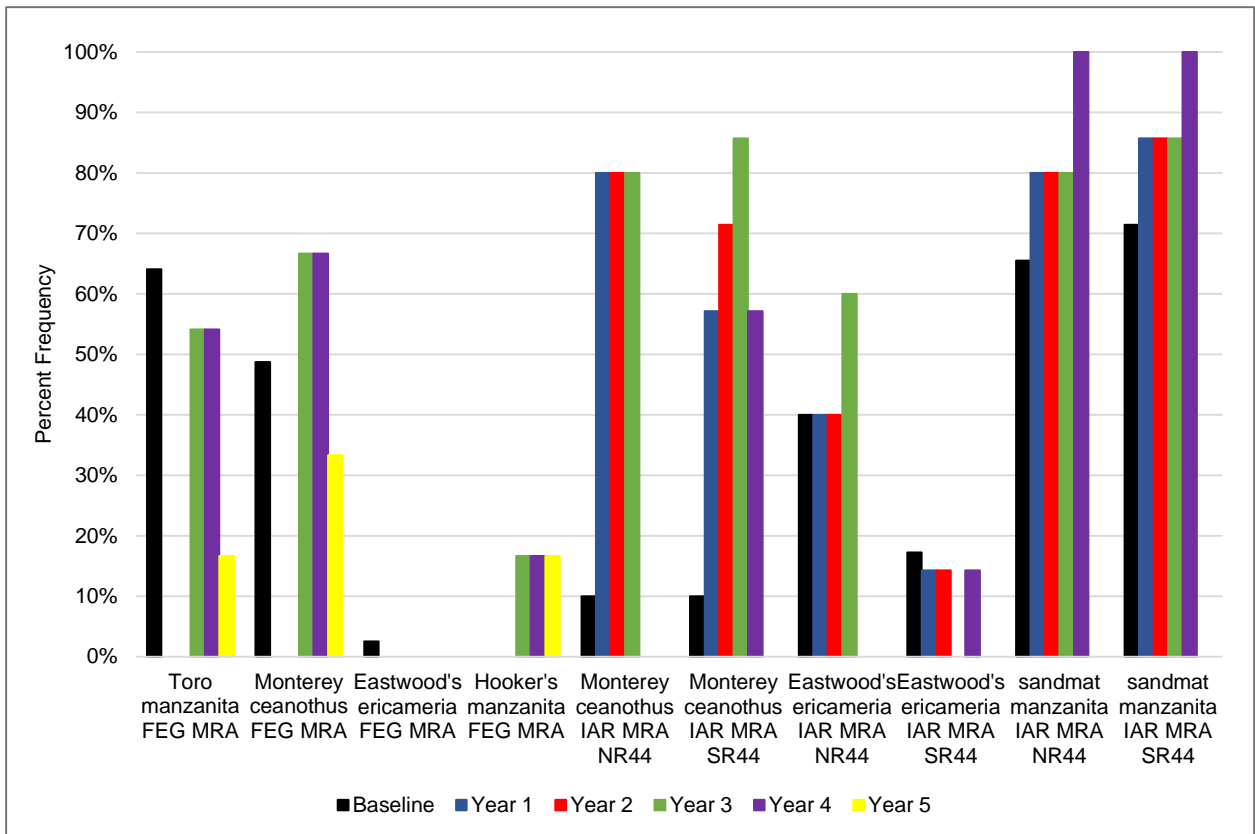


**Figure 21**  
Native Species Diversity before and after Vegetation Cutting in Future East Garrison MRA and Interim Action Ranges MRA 2010 – 2015



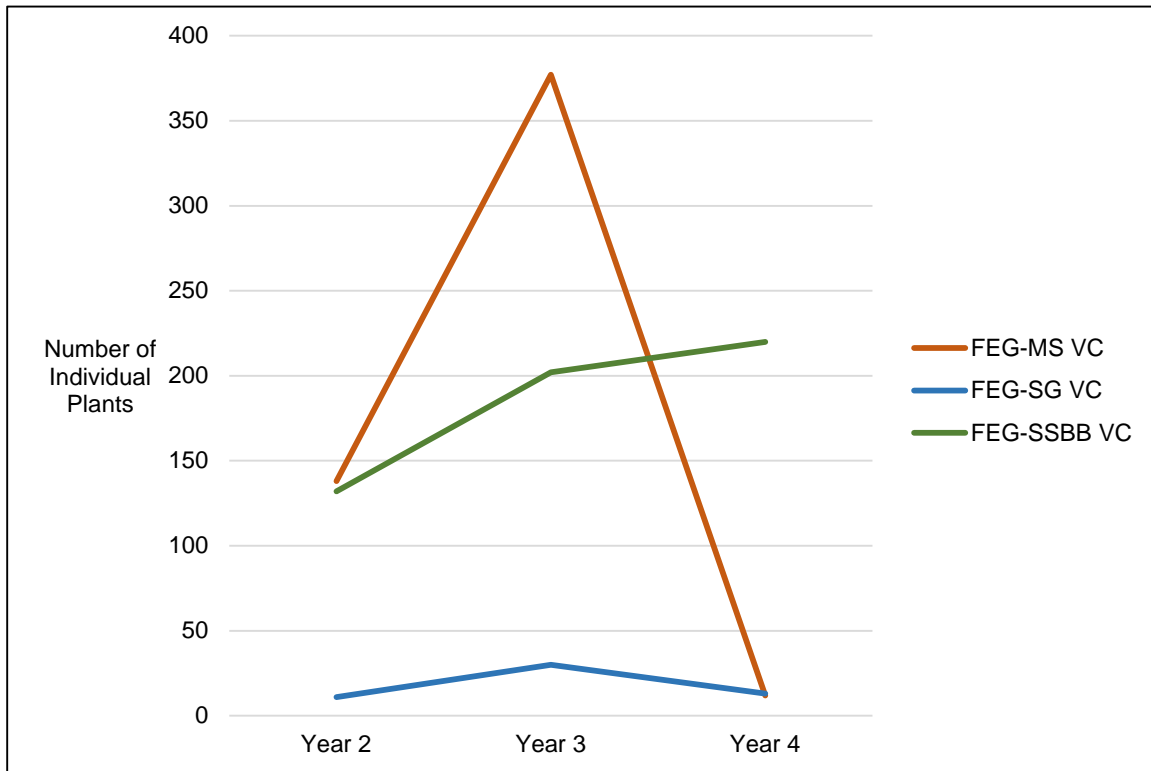
SR44 = South Range 44, NR44 = North Range 44, R47 = Range 47

**Figure 22**  
HMP Shrub Species Frequency in Future East Garrison MRA and Interim Action Ranges MRA 2010 – 2015



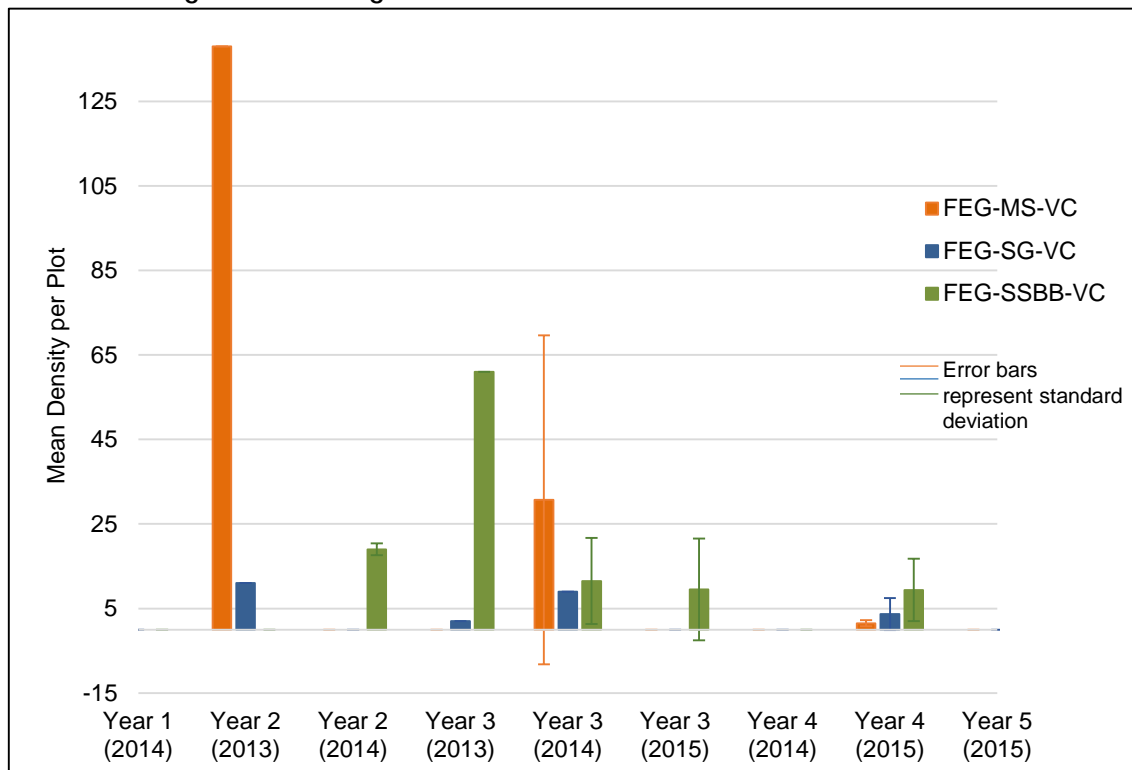
SR44 = South Range 44, NR44 = North Range 44. No Hooker's manzanita was recorded for baseline

Figure 23 Future East Garrison MRA – Total Number of HMP Herbaceous Species Year 2 – Year 4 after Vegetation Cutting



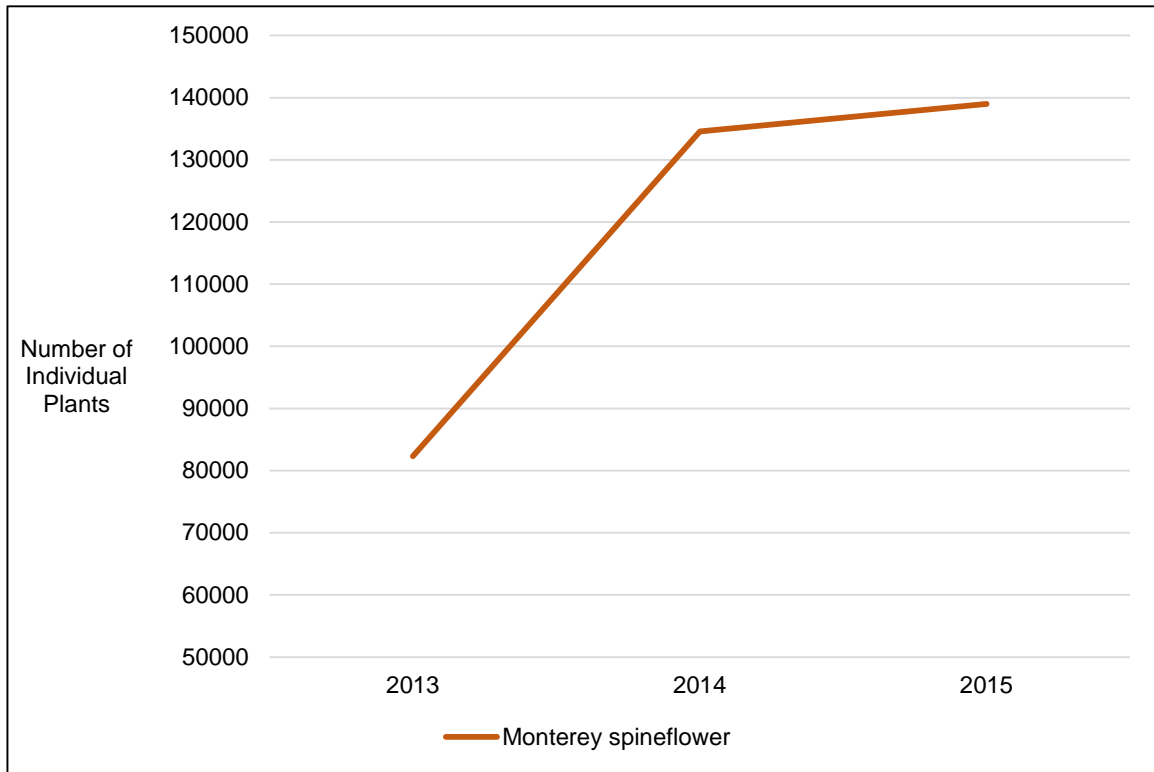
MS = Monterey spineflower, SG = sand (Monterey) gilia, SSBB = seaside bird's-beak  
VC = vegetation cutting,

Figure 24 Future East Garrison MRA – Mean Density per Plot of HMP Herbaceous Species Year 2 – Year 4 after Vegetation Cutting.

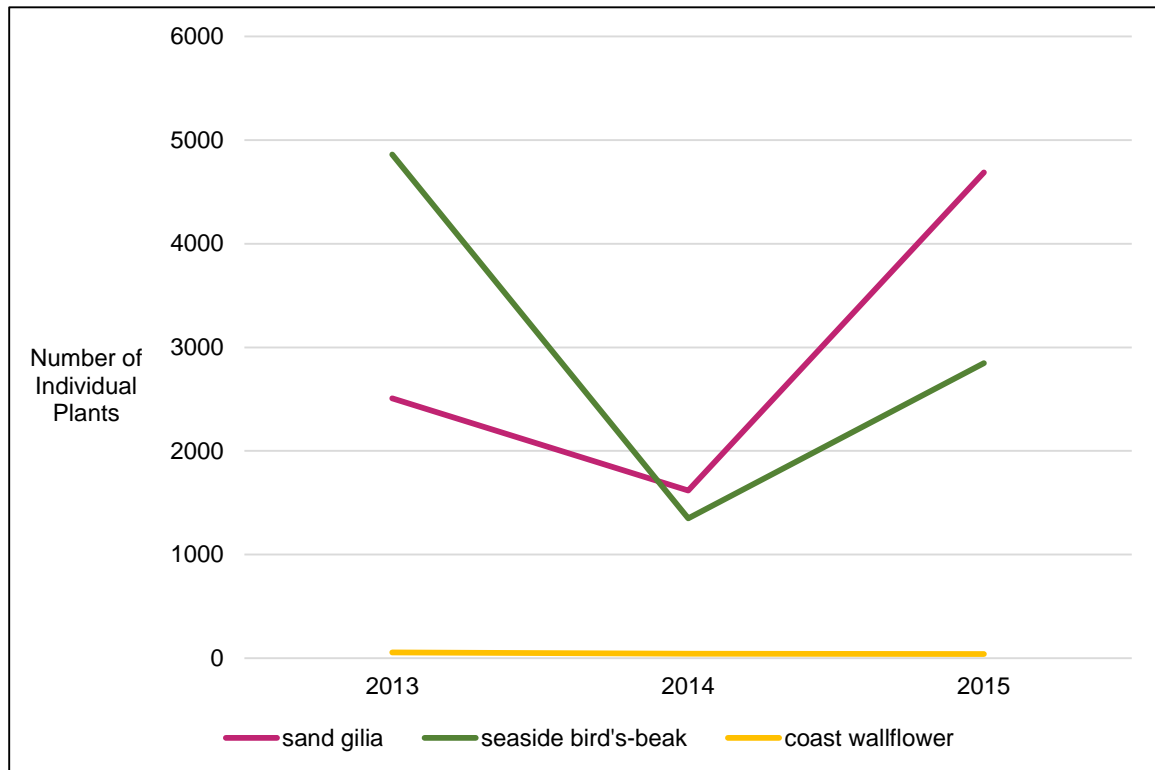


MS = Monterey spineflower, SG = sand (Monterey) gilia, SSBB = seaside bird's-beak  
VC = vegetation cutting

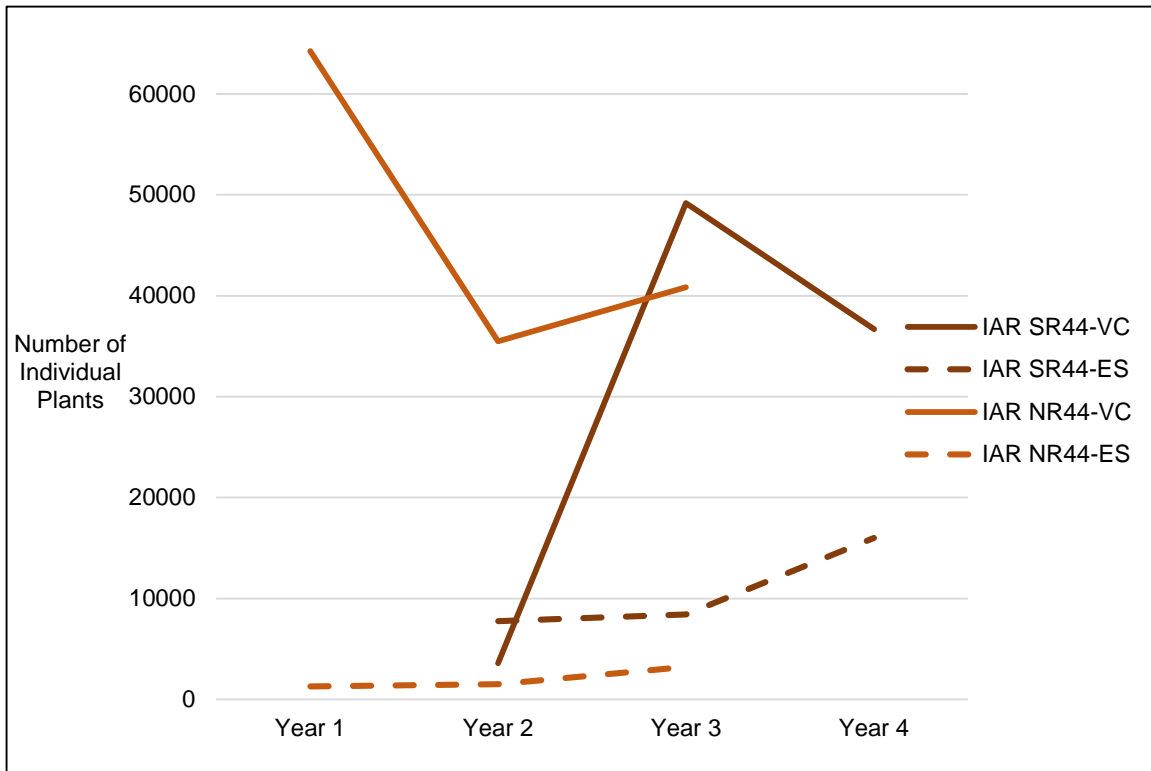
**Figure 25**  
Interim Action Ranges MRA – Total Number of Monterey Spineflower between Years (2013 – 2015)



**Figure 26**  
Interim Action Ranges MRA – Total Number of Sand (Monterey) Gilia, Seaside Bird's-beak, and Coast Wallflower between Years (2013 -2015)

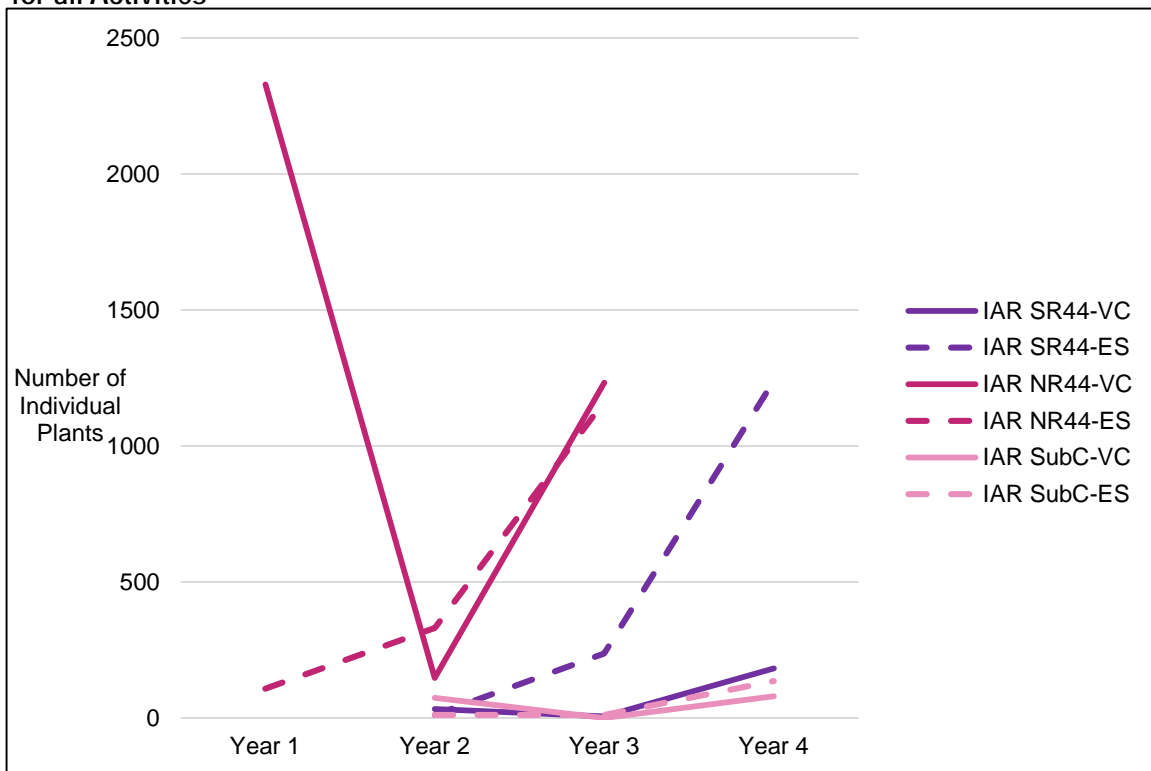


**Figure 27**  
Interim Action Ranges MRA – Total Number of Monterey Spineflower Post-activity Year 1 – Year 4 for all Activities



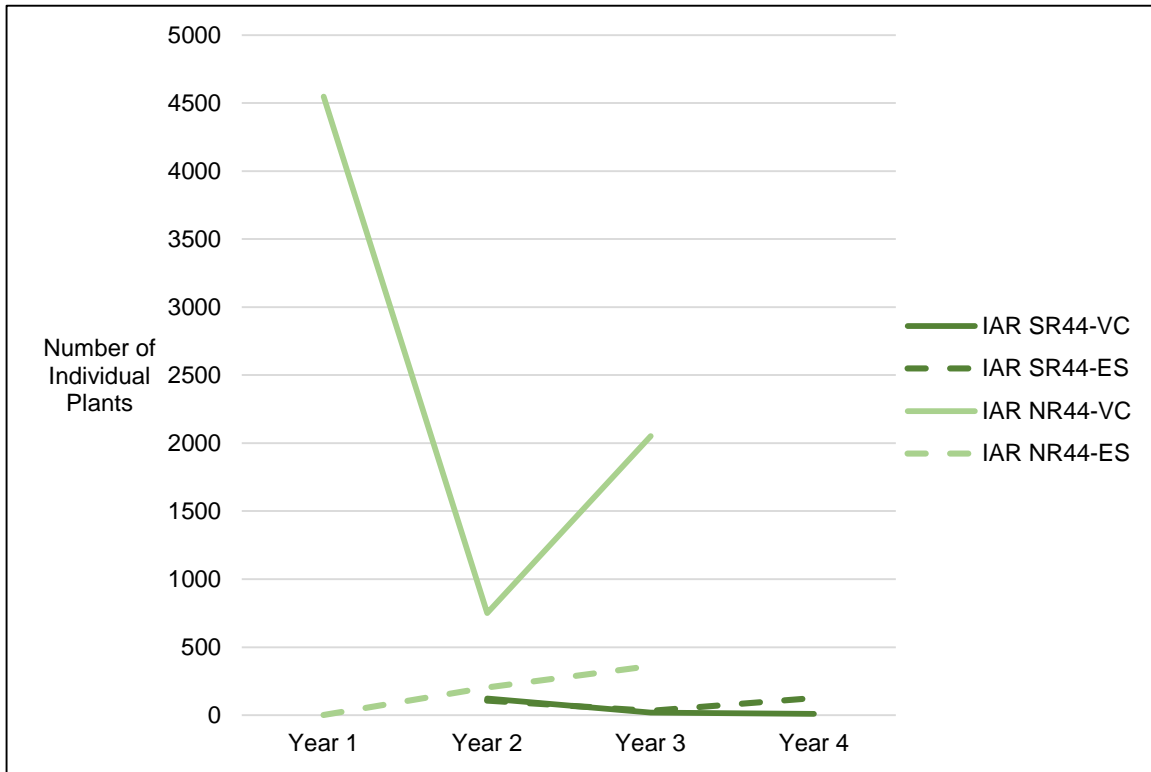
Activities in South Range 44 (SR44) were completed a year before North Range 44 (NR44), hence the difference in Activity Years. Data for Year 1 in South Range 44 was not calculated in the same manner as the data above, therefore not comparable. VC = vegetation cutting, ES = small-scale excavation.

**Figure 28**  
Interim Action Ranges MRA – Total Number of Sand (Monterey) Gilia Post-activity Year 1 – Year 4 for all Activities



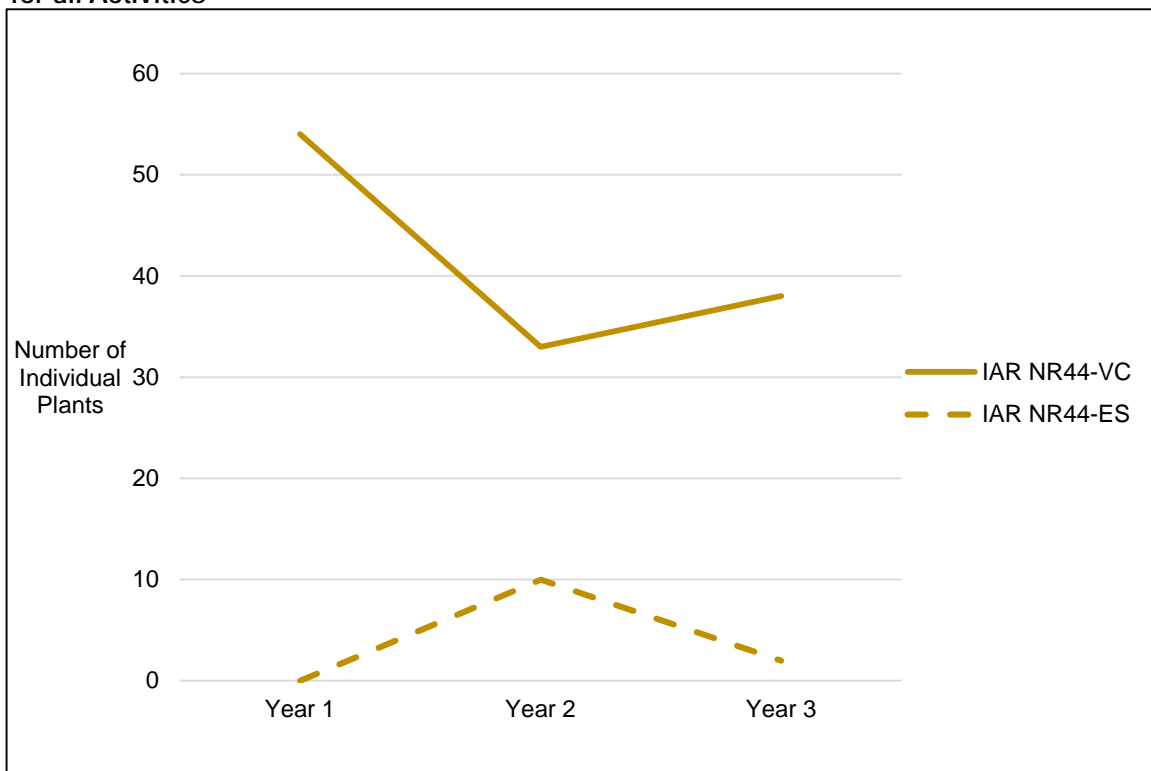
Activities in South Range 44 (SR44) were completed a year before North Range 44 (NR44), hence the difference in Activity Years. Data for Year 1 in South Range 44 was not calculated in the same manner as the data above, therefore not comparable. IAR SubC = Range 47 Subarea C. VC = vegetation cutting, ES = small-scale excavation.

**Figure 29**  
**Interim Action Ranges MRA – Total Number of Seaside Bird’s-beak Post-activity Year 1 – Year 4 for all Activities**



Activities in South Range 44 (SR44) were completed a year before North Range 44 (NR44), hence the difference in Activity Years. Data for Year 1 in South Range 44 was not calculated in the same manner as the data above, and are not comparable, therefore not shown. VC = vegetation cutting, ES = small-scale excavation.

**Figure 30**  
**Interim Action Ranges MRA – Total Number of Coast Wallflower Post-activity Year 1 – Year 4 for all Activities**



NR44 = North Range 44  
 VC = vegetation cutting, ES = small-scale excavation