

Petroglyph Energy, Inc.
Well Pad Final Reclamation Evaluation

Well Name: Martinez 06-15

Evaluation Date: July 14, 2015

Evaluated by: Robin Bay; Senior Environmental Scientist; Habitat Management, Inc.

Current Condition

The Martinez 06-15 pad has excellent diversity of desirable species, but over 50% of the overall vegetation cover is weedy species. Cheatgrass (*Bromus tectorum*) dominates the pad with extensive cover of prickly Russian thistle (*Salsola tragus*) as well. Desirable species include western wheatgrass (*Pascopyrum smithii*), needle and thread (*Hesperostipa comata*), Indian ricegrass (*Achnatherum hymenoides*), green needlegrass (*Nassella viridula*), sand dropseed (*Sporobolus cryptandrus*), broom snakeweed (*Gutierrezia sarothrae*), squirreltail bottlebrush (*Elymus elymoides*), purple threeawn (*Aristida purpurea*), fringed sage (*Artemisia frigida*), blue flax (*Linum lewisii*), and others.

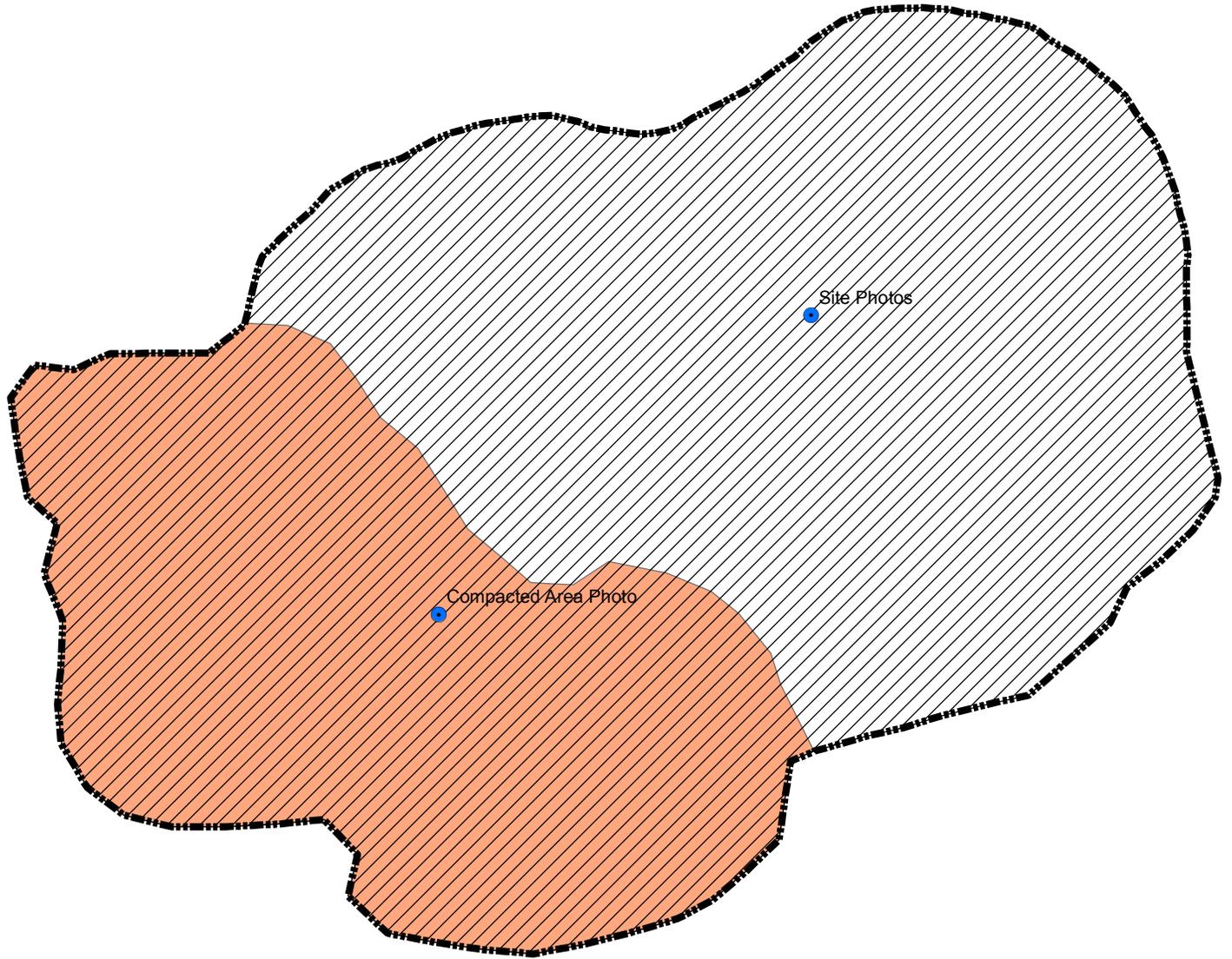
The southwestern 1/3 of the pad has much lower vegetation cover (both desirable and weedy species) and appears to be somewhat compacted. The access road has not been reclaimed.

Recommended Actions

This site should be mowed to clear away the standing dead cheatgrass and tumbleweed so pre-emergent herbicide can effectively contact the ground surface. The remaining area on the pad should be treated with a pre-emergent herbicide application this fall before the cheatgrass germinates.

The southwestern 1/3 of the well pad needs to be completely reclaimed. It should be de-compacted by cross-ripping to a depth of approximately 12" with a small bulldozer and then seeded with the approved seed mixture. Following reseeding the treated area should be mulched with Woodstraw at a target rate of 60% cover.

After management activities are completed the site should be checked periodically to verify germination of newly seeded areas, check for infestations of other noxious weeds, and check for other issues that may arise and impact the reclamation area.



Management Activity	Acres
Weed Management	1.19
Decompact, Seed & Mulch	0.48

-  Weed Management
-  Decompact, Seed, & Mulch
-  Well Pad Boundary

 Photo Point



Petroglyph Energy 2015

Martinez 06-15



Evaluated: 7/17/15
 Drawn: 12/14/15
 Drawn By: RFB

Martinez 06-15



Access road

Photo Date 7/14/2015

Lat: Long:



Compacted area

Photo Date 7/14/2015

Lat: 37.5454038 Long: -104.8216163679



Looking East

Photo Date 7/14/2015

Lat: 37.5456177673 Long: -104.8212801998



Looking North

Photo Date 7/14/2015

Lat: 37.5456177673 Long: -104.8212801998



Looking South

Photo Date 7/14/2015

Lat: 37.5456177673 Long: -104.8212801998



Looking West

Photo Date 7/14/2015

Lat: 37.5456177673 Long: -104.8212801998