GENESIS SOLAR ENERGY

Report No: 0-CA-0-00-02
Revision 0 Date: 21 Dec 2010

MAIN ACCESS ROAD

DRAINAGE, EROSION AND SEDIMENT CONTROL PLAN (DESCP)

INTRODUCTION

Genesis Solar, LLC is proposing to construct, own and operate the Genesis Solar Energy Project near Ford Dry Lake on Bureau of Land Management (BLM) administrative lands in Riverside County, California. The Project Site is located in the Colorado Desert between the communities of Blythe, CA (approximately 24 miles east) and Desert Center, CA (approximately 27 miles west). The facility is a 250 megawatt (MW) solar thermal power generating plant. See following Site Vicinity Map.

The Site covers approximately 1,800 acres of Federal land managed by the BLM. Surrounding land uses include Interstate 10 (I-10) to the south, the Palen McCoy Wilderness to the north, the Palen Dry Lake Area of Critical Environmental Concern (ACEC) to the west and open unrestricted access lands to the east. Most of the land near the Site is managed by BLM and there is no California State Land in the vicinity, but there are substantial private holdings.

The Project Site is situated within the Chuckwalla Valley. It is relatively flat, sloping from north to south, with Site elevations of approximately 400 to 370 feet above mean sea level. The Site is occupied by a community of low creosote and bursage scrub vegetation and covers portions of the Ford Dry Lake and McCoy Spring USGS topographic maps.

Natural drainage across the Project Site is episodic, shallow and occurs over a broad area primarily as sheet flow or in shallow washes.

The Site has been historically used for both off-highway vehicles and sheep grazing; however neither activity currently occurs.

The first phase of construction will consist of the main access road running northwest from the Wiley's Well exit off I-10 to the project site, north of Ford Dry Lake. Phase two will consist of the westernmost solar field and power block and phase three will consist of the easternmost solar field and power block. This Drainage, Erosion and Sediment Control Plan covers the main access road portion only.

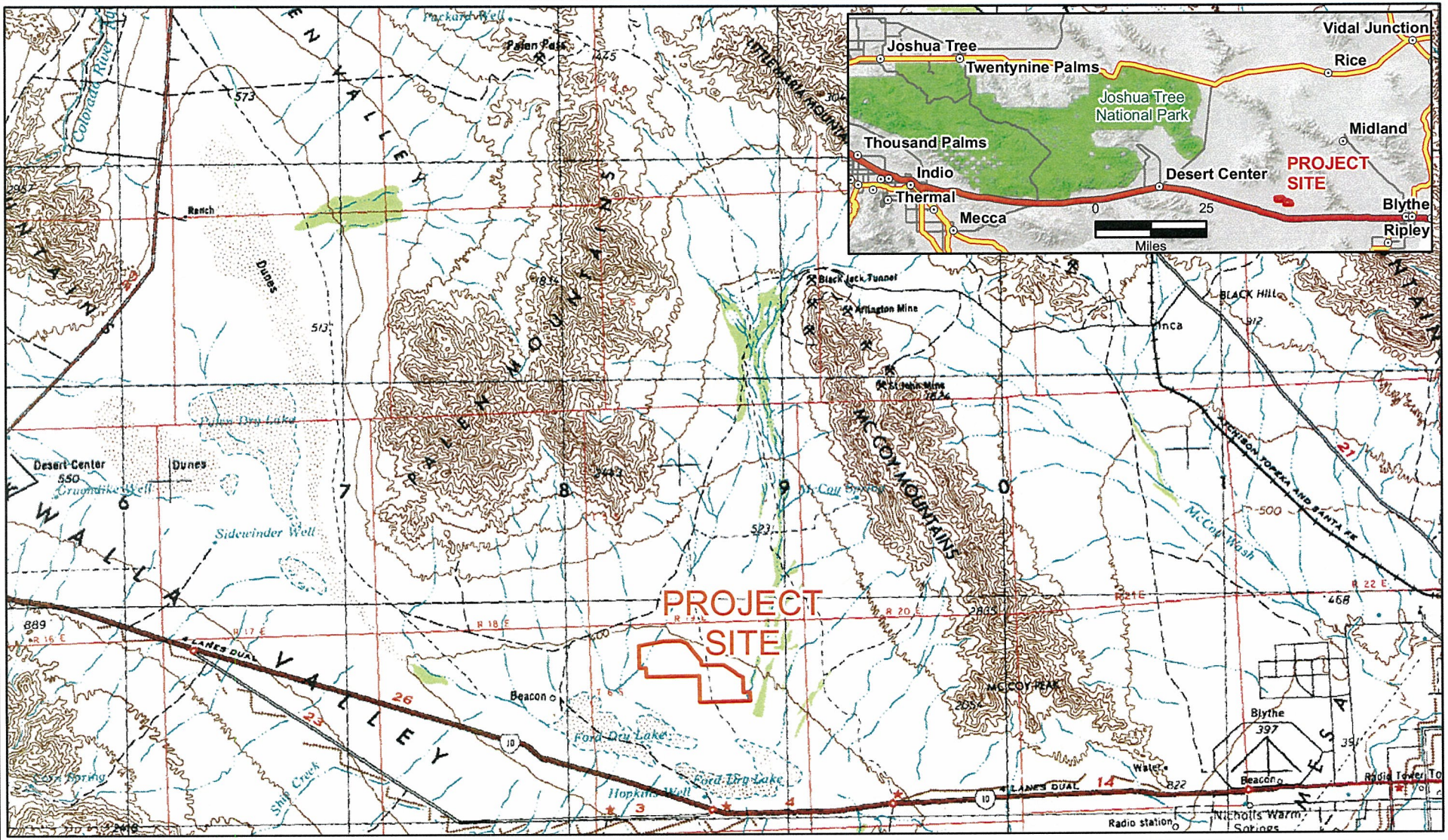
CONCLUSIONS

The first stage of construction will be the access road from the Wiley's Well Rest Area off I-10 to the project site. No proposed earth is expected to be imported or exported for this activity. The access road is to have two 12 ft wide asphalt paved lanes with 3 ft shoulders.

The road will be built in the allotted 200 ft wide roadway easement. This easement is to include a 50 ft wide gas line easement and a 100 ft wide transmission line easement. The proposed gas line will tie into an existing Southern California Gas pipeline located near I-10. Installation of the gas line will be done after the construction of the road. A proposed 230 kV transmission line will transmit power from the GSEP switchyard to a new Southern California Edison electrical substation. The substation will be constructed after the road.

The water supply for road construction activities will come from a well identified as TW-2 located near the proposed main access road. This well was drilled as a test well and will be used for construction of the access road. The water pumped from this well will fill portable water tanks to service construction activities.

During the road construction, erosion and sediment control will be provided. The main BMPs used are Silt Fence (SE-1) and Sandbag Barrier (SE-8). The implementation of the sediment and erosion control measures are depicted on the construction drawings with the road paving drawings. The flood routing analysis was presented in the calculation report 0-CA-0-00-01 (See Attachment).



SOURCE:
USGS 250K Quad Sheet, Salton Sea
All locations approximate

GENESIS SOLAR ENERGY PROJECT

SITE VICINITY MAP

1