

Soitec Solar Development

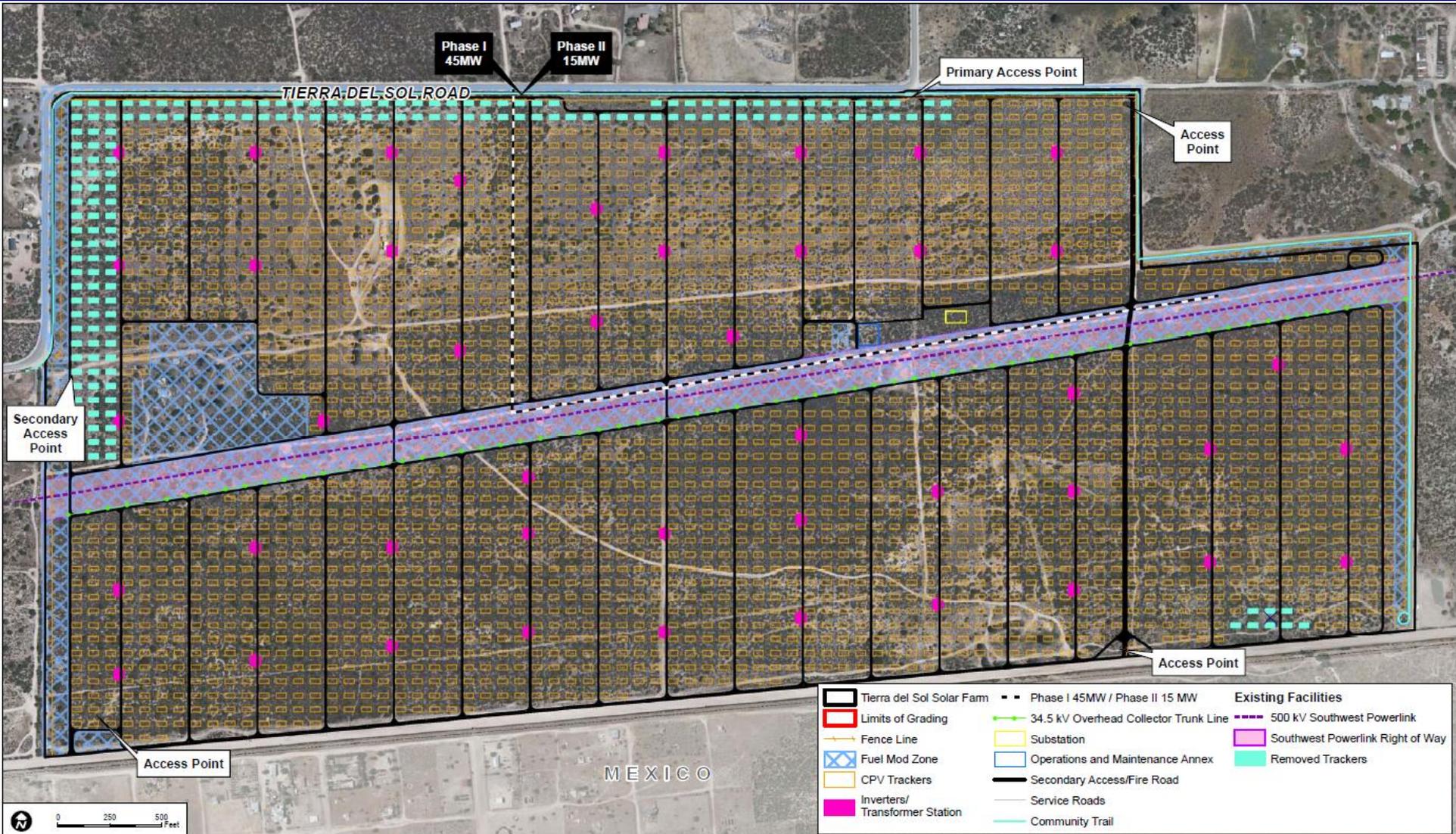
January 8, 2015

Boulevard Community Planning Group

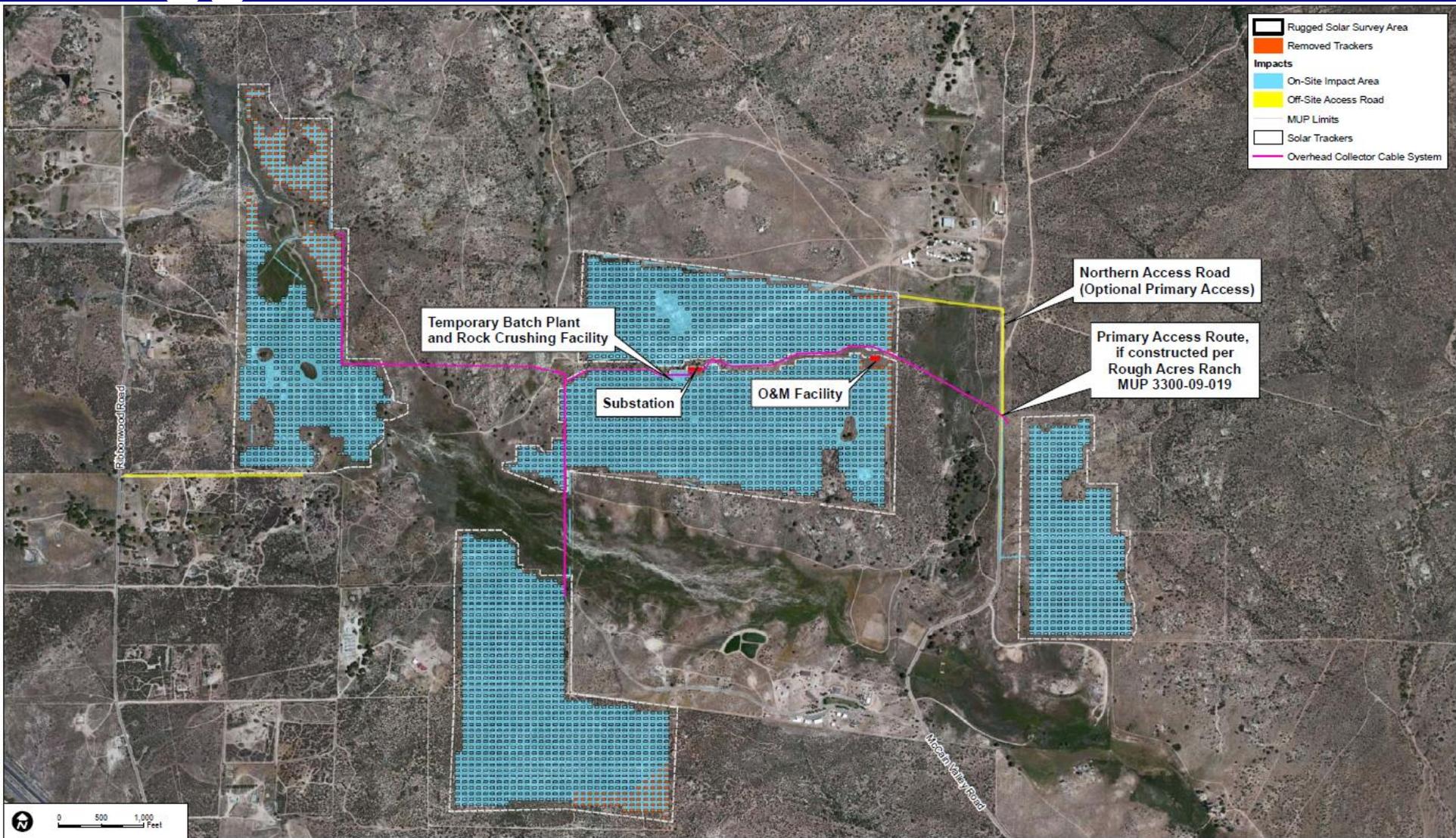


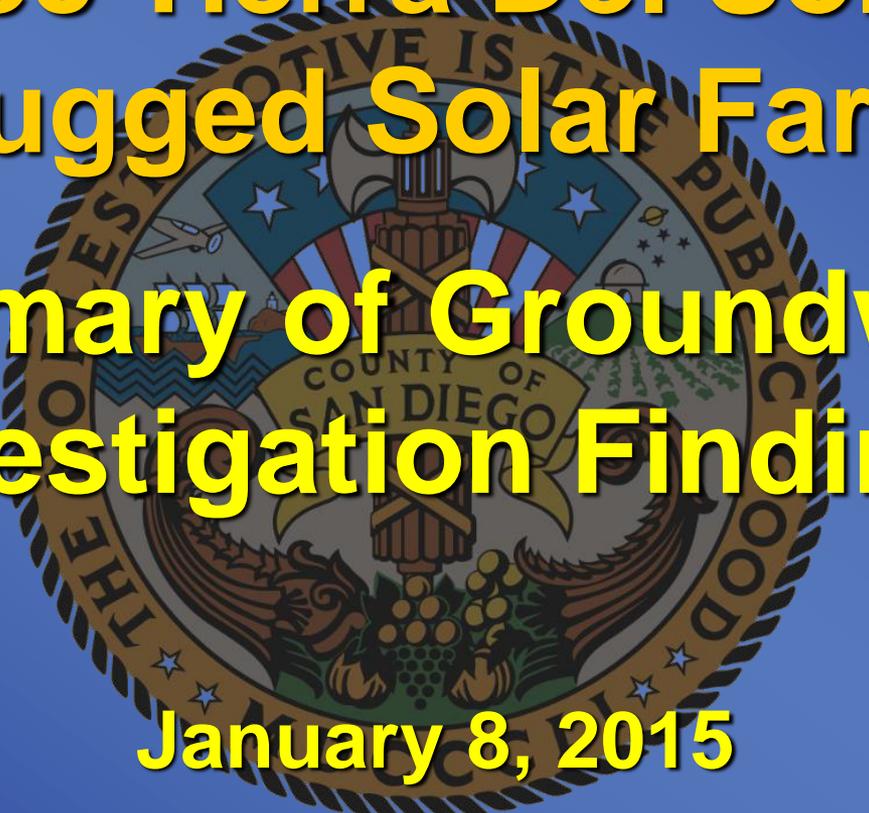
Alternative 2A

Tierra Del Sol Solar



Alternative 2A Rugged Solar



The seal of the County of San Diego is centered in the background. It features a central figure holding a scale and a sword, surrounded by various symbols of industry and agriculture. The text "COUNTY OF SAN DIEGO" is visible within the seal's border.

**Soitec Tierra Del Sol and
Rugged Solar Farm
Summary of Groundwater
Investigation Findings**

January 8, 2015

Boulevard Community Planning Group

County Groundwater Regulations



San Diego County Groundwater Ordinance

County of San Diego Guidelines for Determining Significance -
Groundwater Resources

Websites:

<http://www.sdcounty.ca.gov/pds/docs/GROUNDWATER-ORD.pdf>

<http://www.sdcounty.ca.gov/pds/docs/GRWTR-Guidelines.pdf>

Groundwater Investigation Requirements



- 30 Year Water Balance Analysis
- Well Interference – Offsite Well Users
- Groundwater Dependent Habitat
- Groundwater Quality
- Groundwater Monitoring and Mitigation Plan

What is One Acre-Foot of Water?



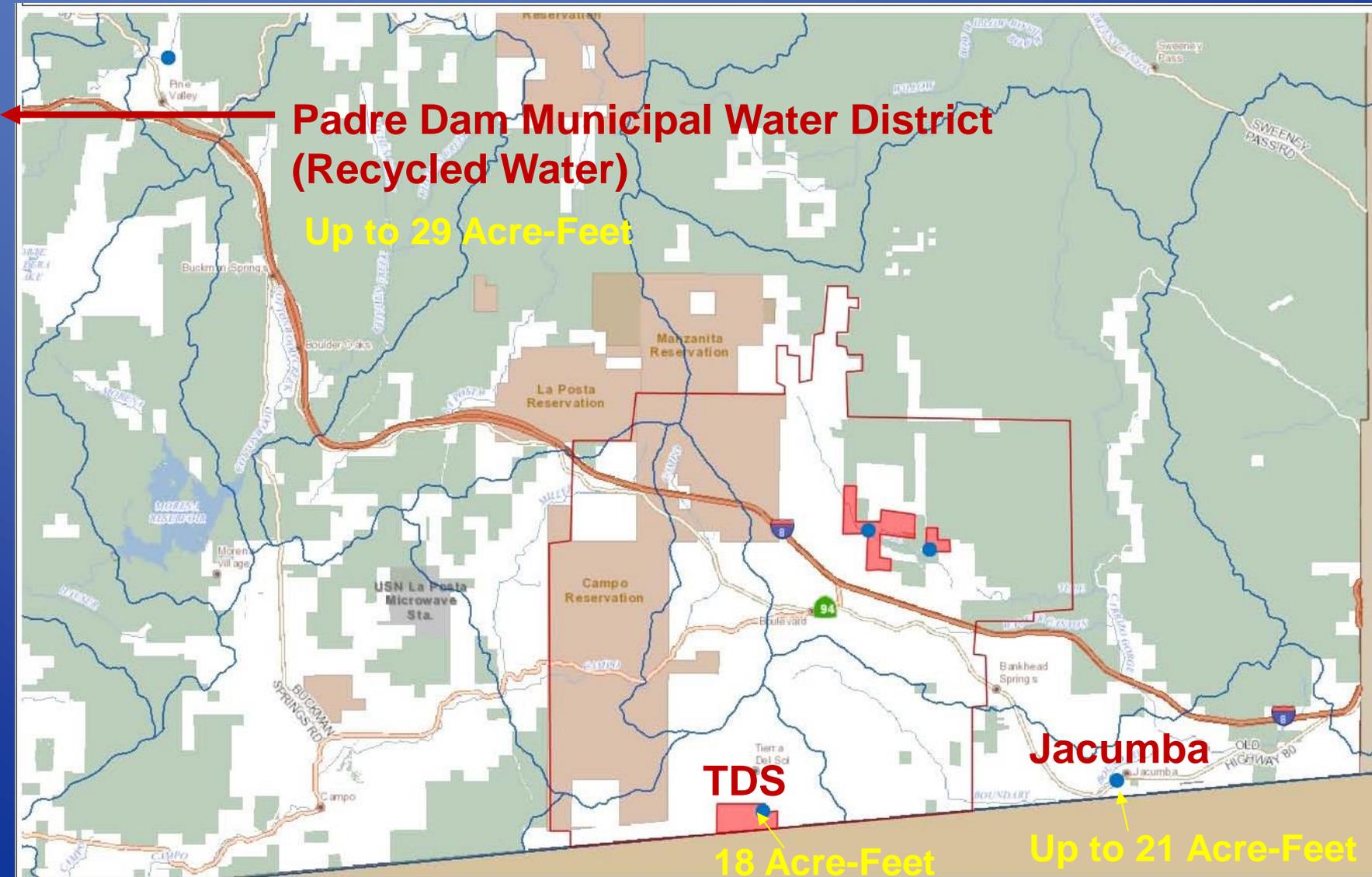
325,851
Gallons

~2 Single-
Family
Residences

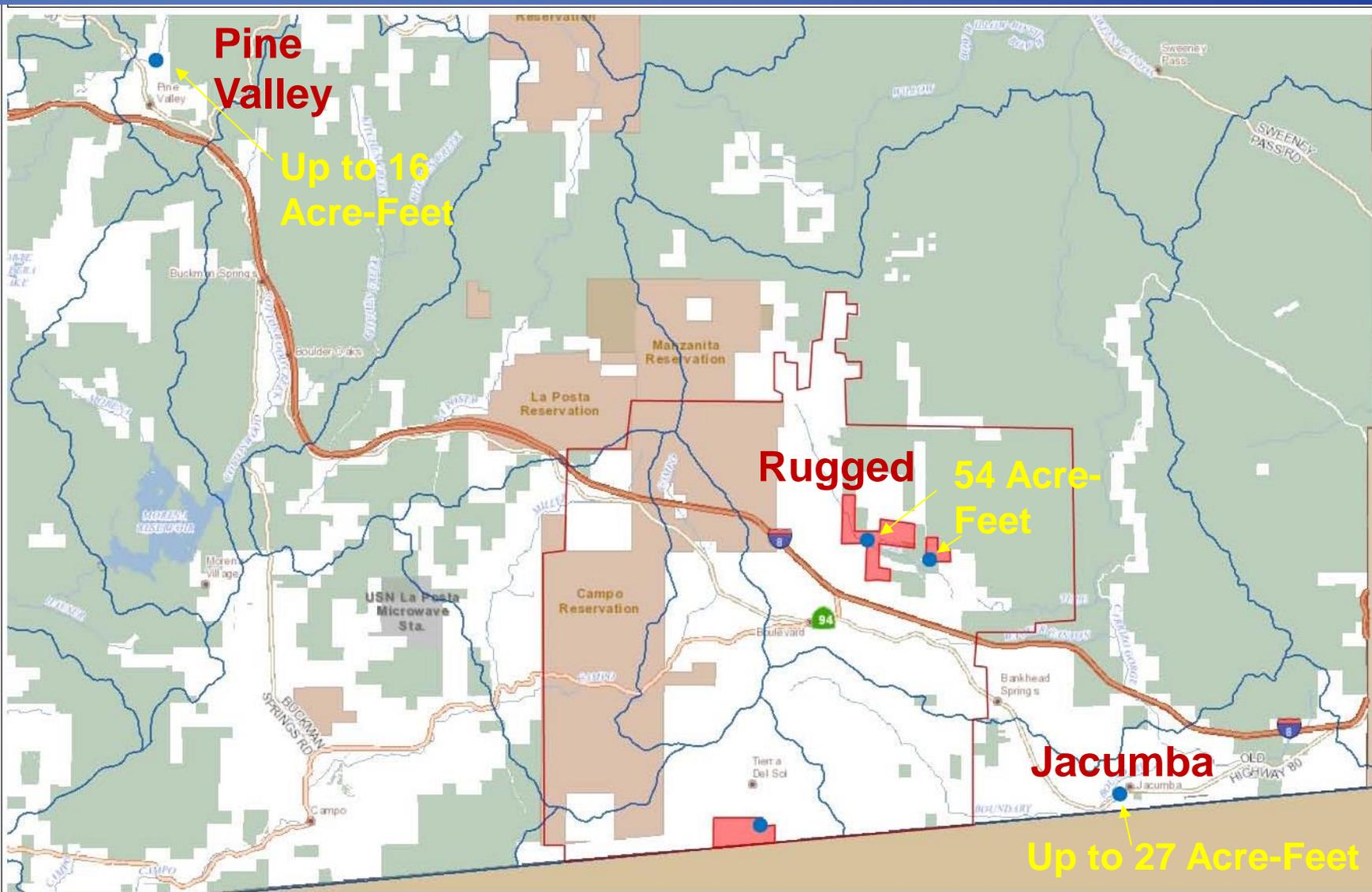
~16 Average
Swimming
Pools



Tierra Del Sol Solar Farm Construction Phase

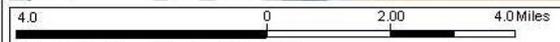
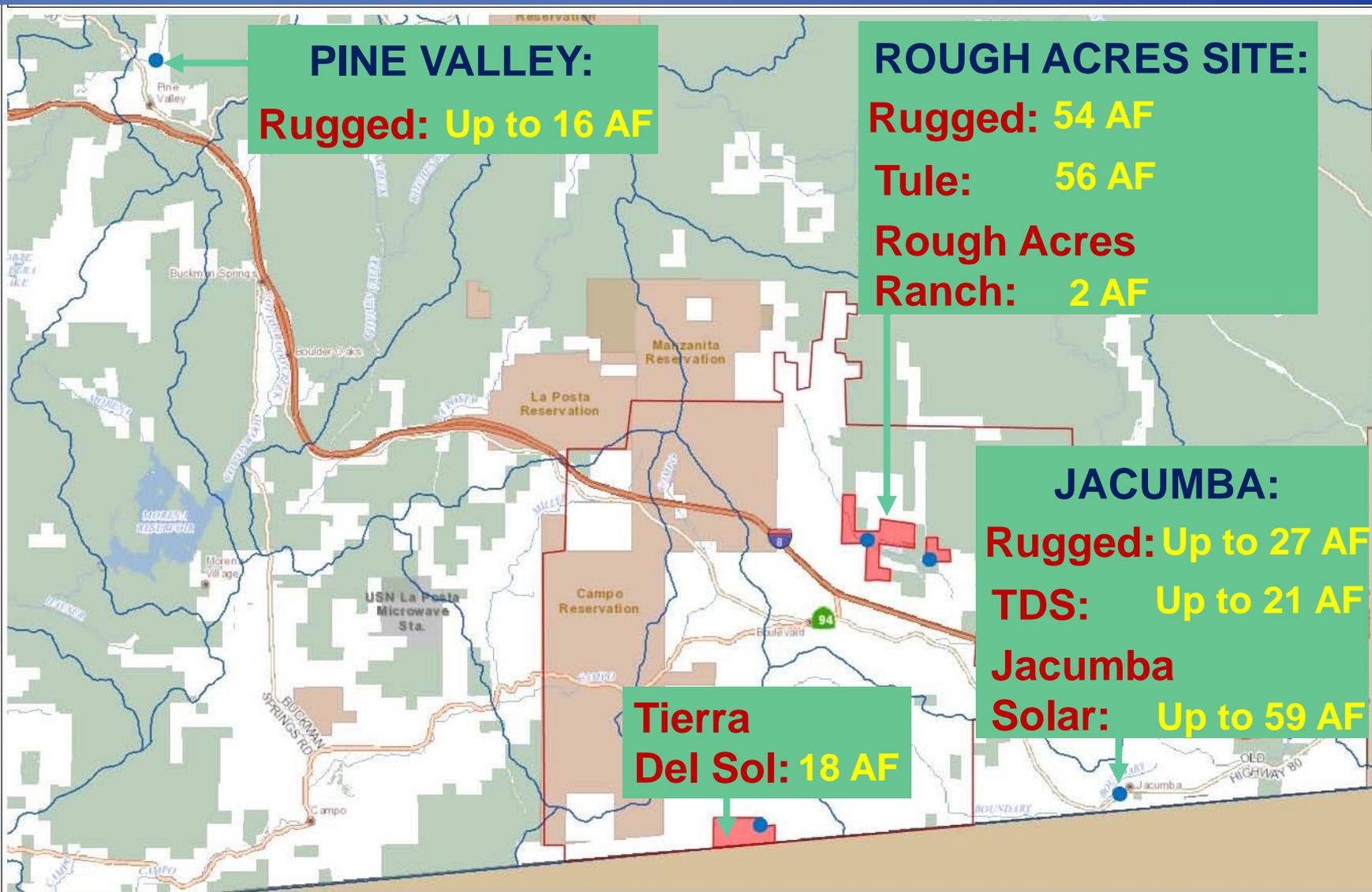


Rugged Solar Farm Construction Phase



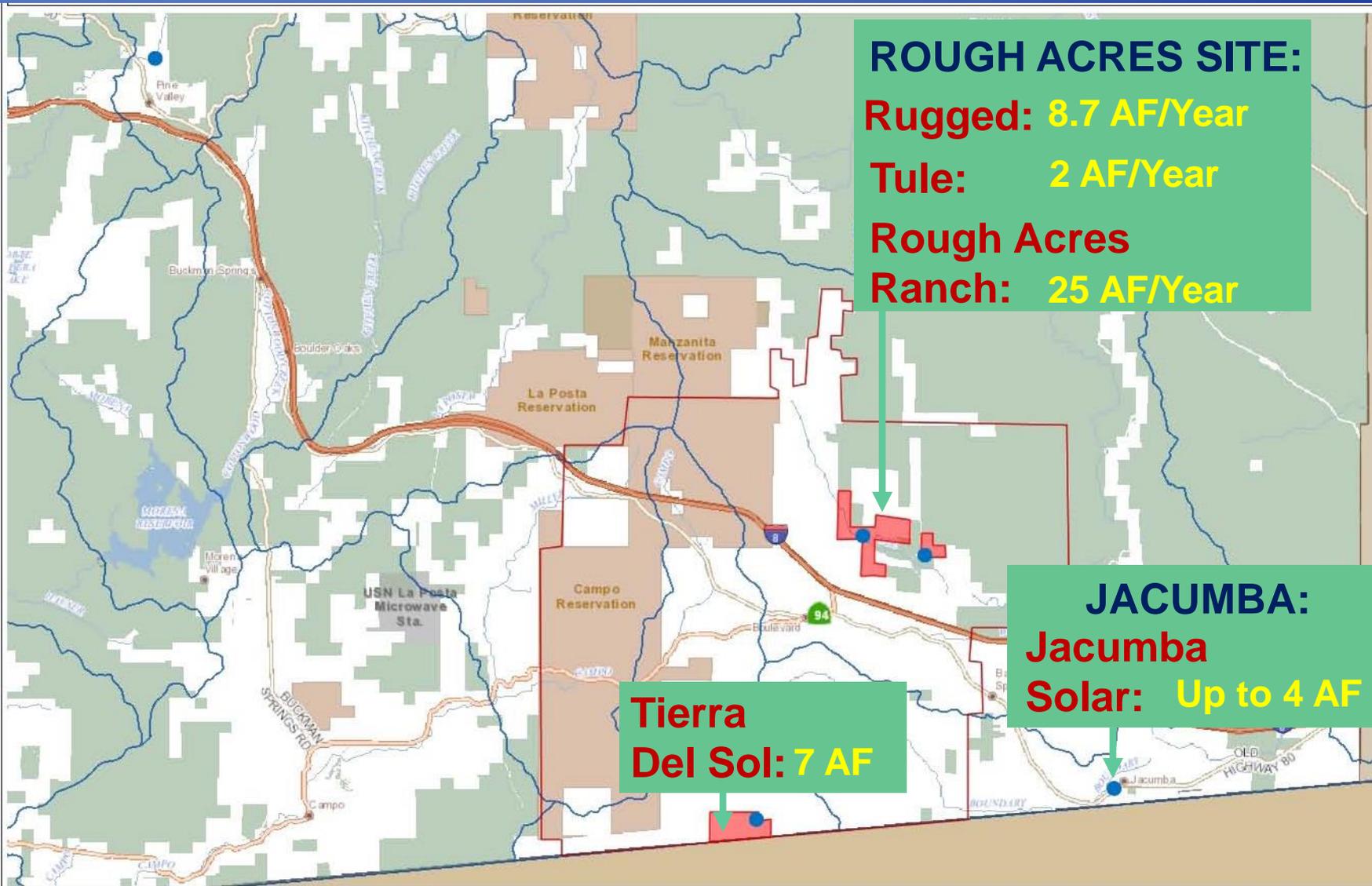
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Reasonably Foreseeable Projects Construction Phase



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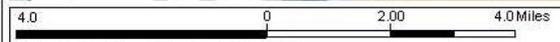
Reasonably Foreseeable Projects Ongoing Water Use



ROUGH ACRES SITE:
Rugged: 8.7 AF/Year
Tule: 2 AF/Year
Rough Acres Ranch: 25 AF/Year

Tierra Del Sol: 7 AF

JACUMBA:
Jacumba Solar: Up to 4 AF



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Tierra Del Sol Solar Farm Groundwater Investigation



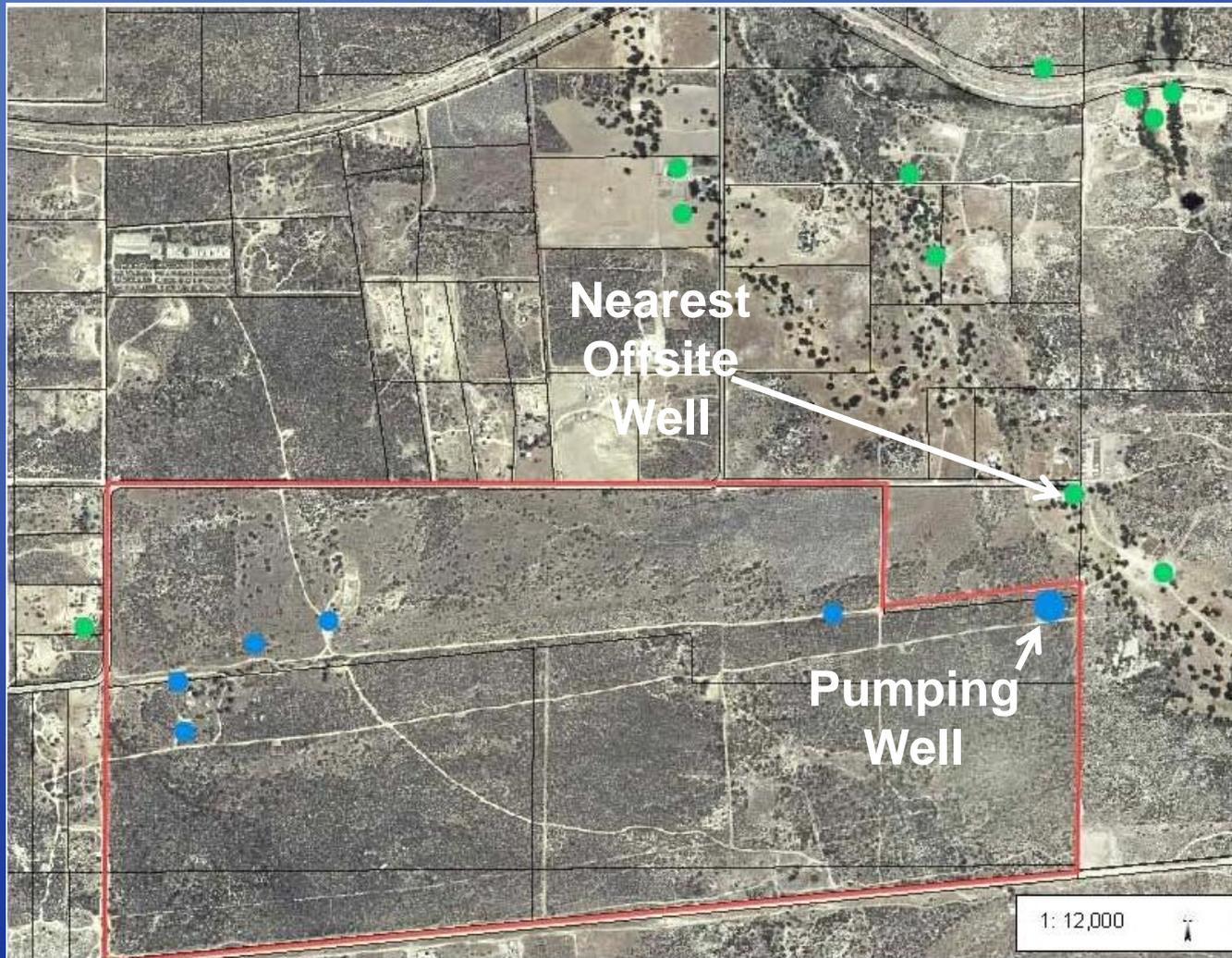
Construction Water Required: 18 Acre-Feet from On-Site

Ongoing Water Required: 7 Acre-Feet Per Year from On-Site

Tierra Del Sol Solar Farm Groundwater Investigation



6 on-site and 11
offsite wells



0.4 0 0.19 0.4 Miles

NAD_1983_StatePlane_California_VI_FIPS_0406_Feet
Planning and Development Services

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

Tierra Del Sol Solar Farm Groundwater Investigation



Groundwater Monitoring and Mitigation Plan:

Construction Demand Limitations: 18 AF total, 7 AF first 90 days

Ongoing Demand Limitation: 7 AF maximum per year

Groundwater Level Thresholds (first five years):

10 feet for wells in groundwater dependent habitat

20 feet all other offsite wells

Groundwater Monitoring: 6 on-site wells and 11 off-site wells

Groundwater Dependent Habitat Monitoring: 72 monitoring plots

Groundwater Reporting to County:

First 90 Days – once every two weeks

Remainder of Construction Period – once a month

Ongoing Water Use: annual reporting

Rugged Solar Farm Groundwater Investigation



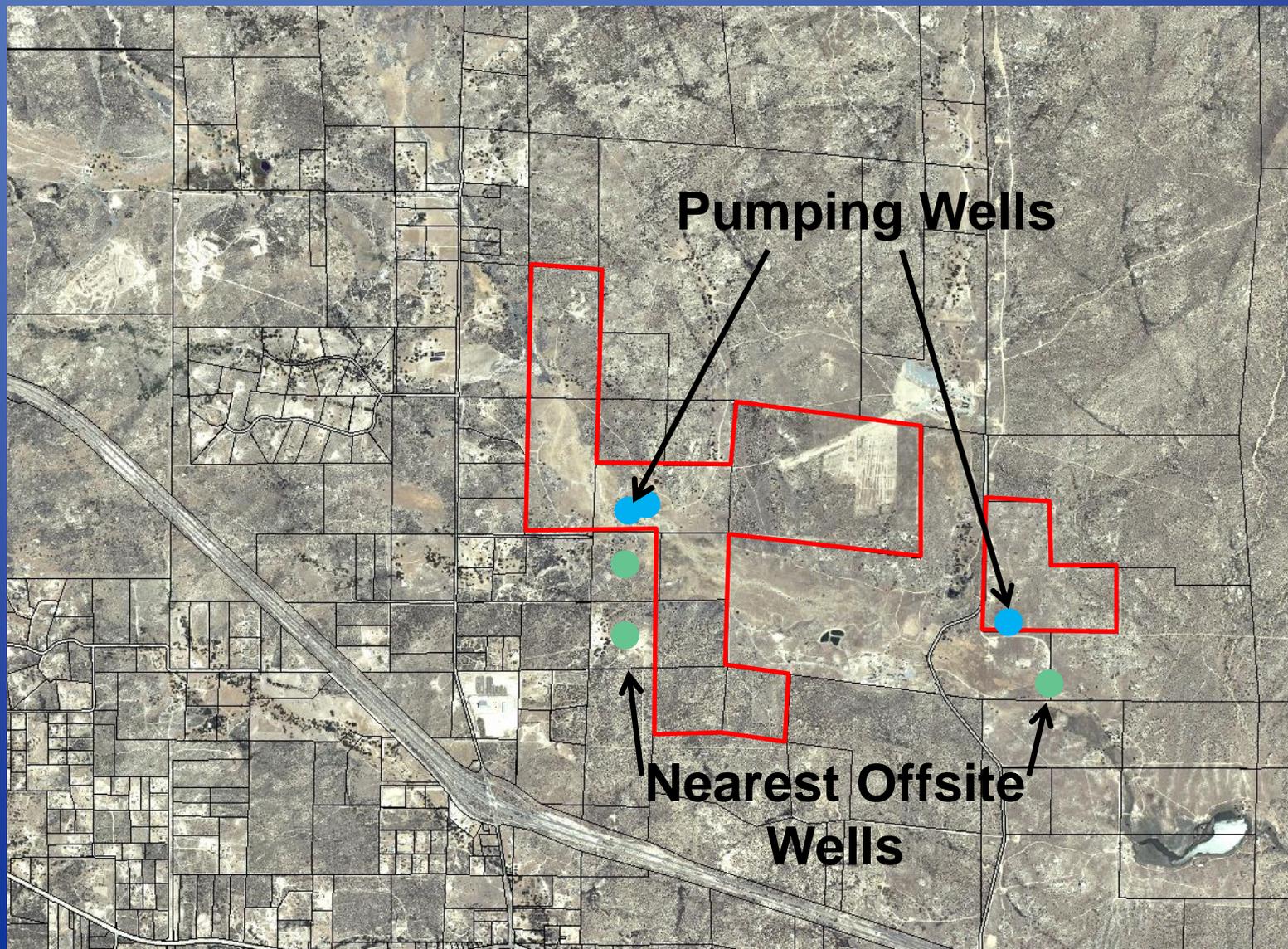
Construction Water Required:

Rugged:	54 AF
Tule (Approved):	56 AF
Rough Acres Ranch (Not Approved): :	2 AF

Ongoing Water Required:

Rugged:	8.7 AF/Year
Tule:	2 AF/Year
Rough Acres Ranch:	25 AF/Year

Rugged Solar Farm Groundwater Investigation



Rugged Solar Farm Groundwater Investigation



Groundwater Monitoring and Mitigation Plan:

Construction Demand Limitations: 54 AF total

Ongoing Demand Limitation: 8.7 AF maximum per year

Groundwater Level Thresholds (first five years):

10 feet for wells in groundwater dependent habitat and offsite wells

Groundwater Monitoring: 8 on-site wells and up to 9 off-site wells

Groundwater Dependent Habitat Monitoring: 38 monitoring plots

Groundwater Reporting to County:

First 90 Days – once every two weeks

Remainder of Construction Period – once a month

Ongoing Water Use: annual reporting

Jacumba Community Services District Groundwater Investigation



Construction Water Requested:

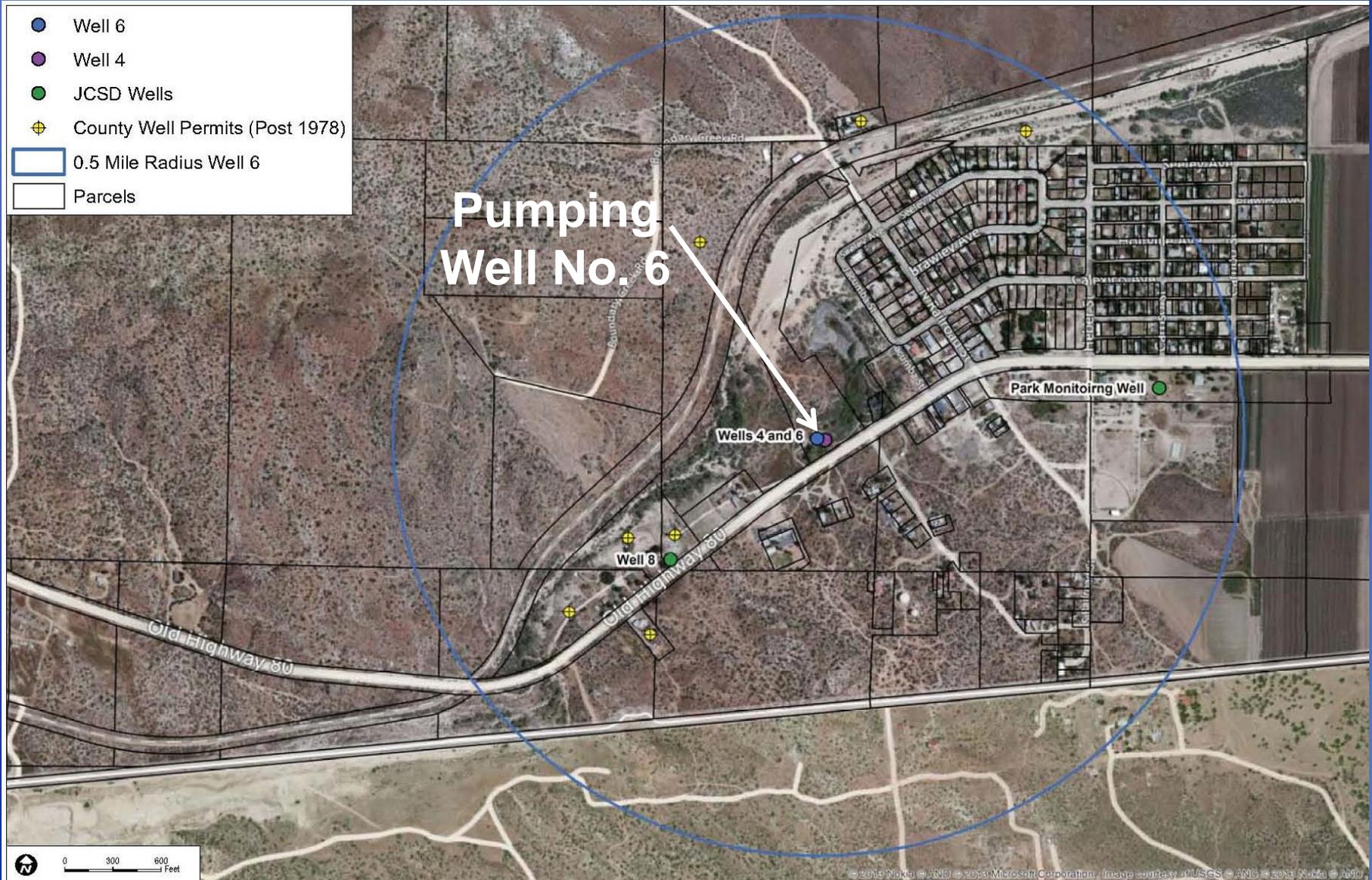
Up to 48 Acre-Feet (15.6 million gallons)

- Up to 21 Acre-Feet for Tierra Del Sol Solar
- Up to 27 Acre-Feet for Rugged Solar Project

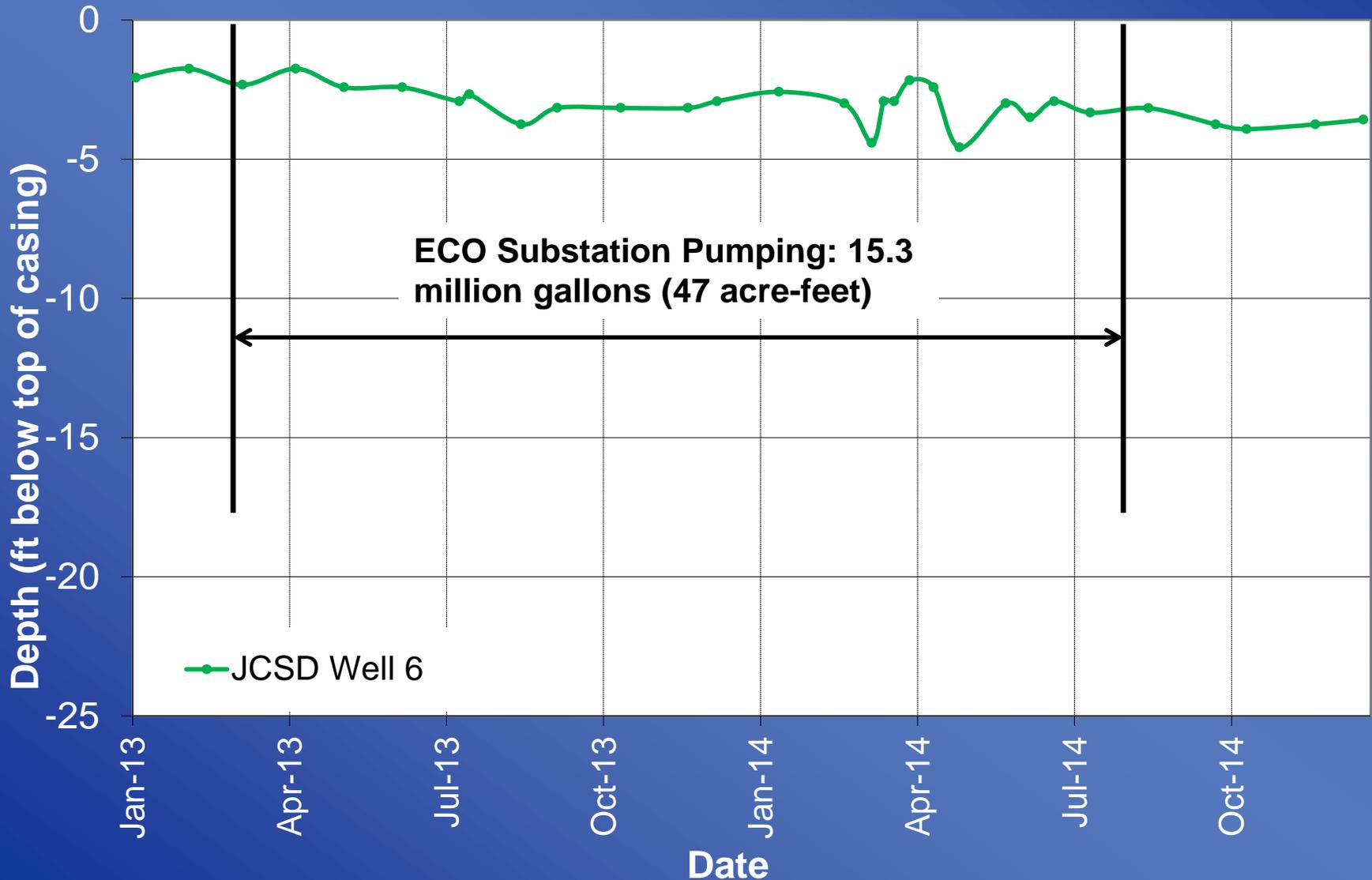
**Jacumba Solar (Not Approved) Construction Water
Required:** Up to 59 Acre-Feet

Jacumba Solar (Not Approved) Ongoing Water Required:
Up to 4 Acre-Feet

Jacumba Community Services District Groundwater Investigation



Jacumba Community Services District Groundwater Investigation



Jacumba Community Services District Groundwater Investigation



Groundwater Monitoring and Mitigation Plan:

Construction Demand Limitations: Up to 21 AF, Tierra Del Sol Project,
Up to 27 AF, Rugged Solar Project

Groundwater Level Thresholds (first five years):
5 feet for 4 closest JCSD wells and any offsite wells monitored

Groundwater Monitoring: 5 JCSD wells

Groundwater Dependent Habitat Monitoring: Only required if water
levels drop below historical low water levels in Well No. 4

Groundwater Reporting to County: Monthly Reporting

Pine Valley Mutual Water Company Groundwater Investigation

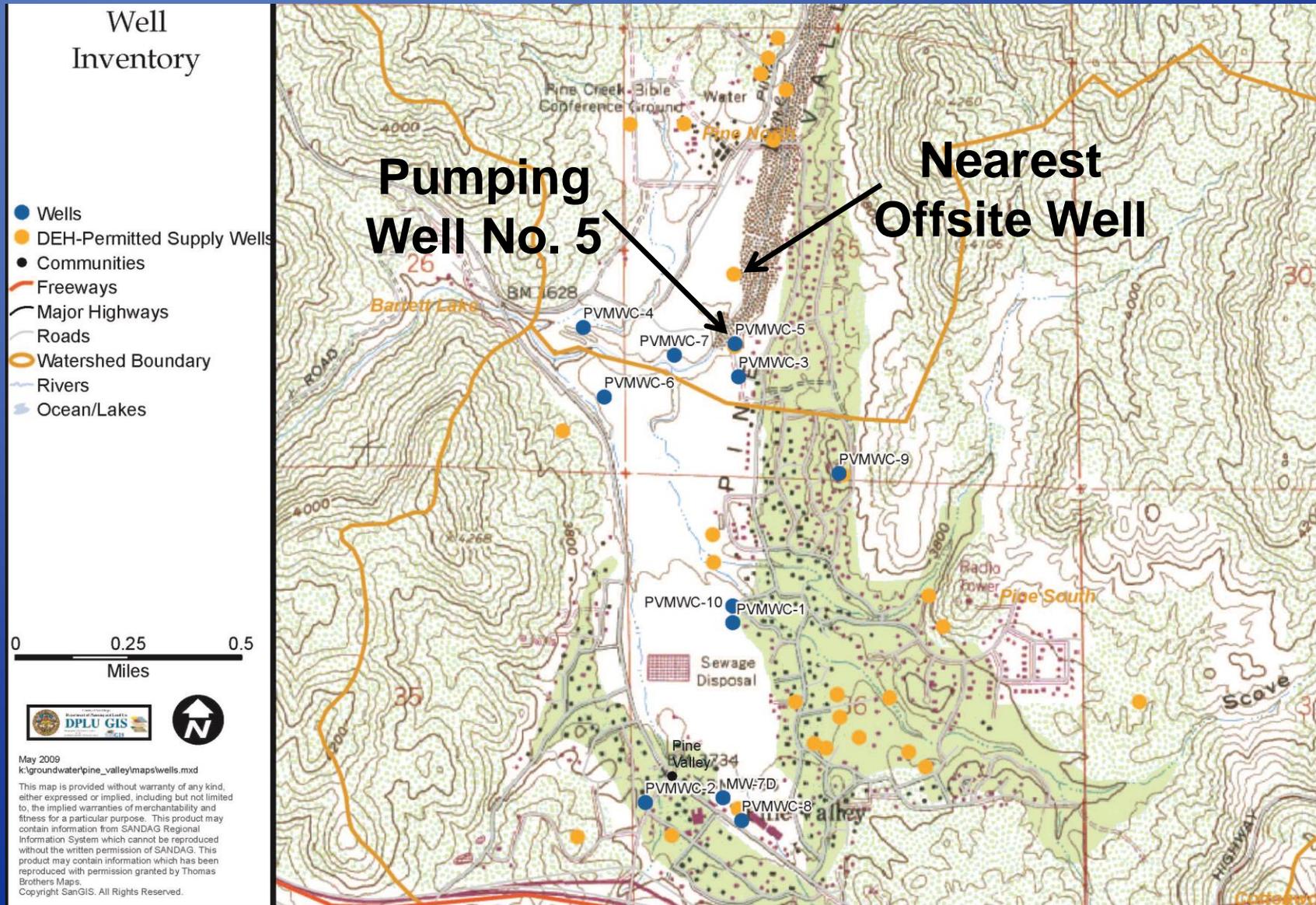


Construction Water Requested:

Up to 16 Acre-Feet (5.2 million gallons)

- Up to 16 Acre-Feet for Rugged Solar Project

Pine Valley Mutual Company Groundwater Investigation



Pine Valley Mutual Water Company Groundwater Investigation



Groundwater Monitoring and Mitigation Plan:

Construction Demand Limitations: 16 AF total, for Rugged Solar Only

Groundwater Level Thresholds (first five years):

10 feet for two closest PVMWC wells and any offsite wells monitored

Groundwater Monitoring: 3 PVMWC wells and volunteer off-site wells

Groundwater Dependent Habitat Monitoring: 9 monitoring plots

Groundwater Reporting to County: Monthly Reporting

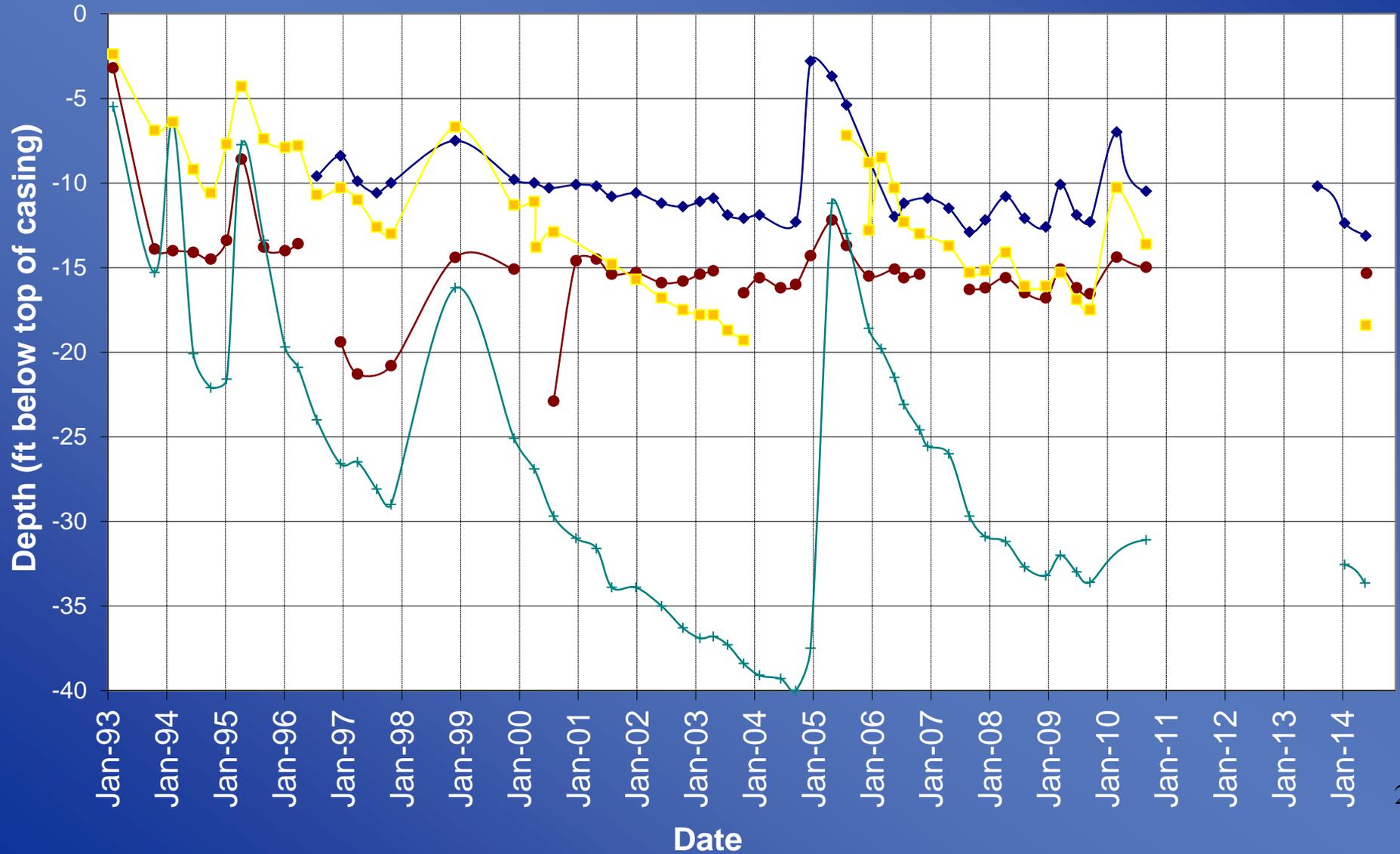
Soitec Tierra Del Sol and Rugged Solar Farm

Questions

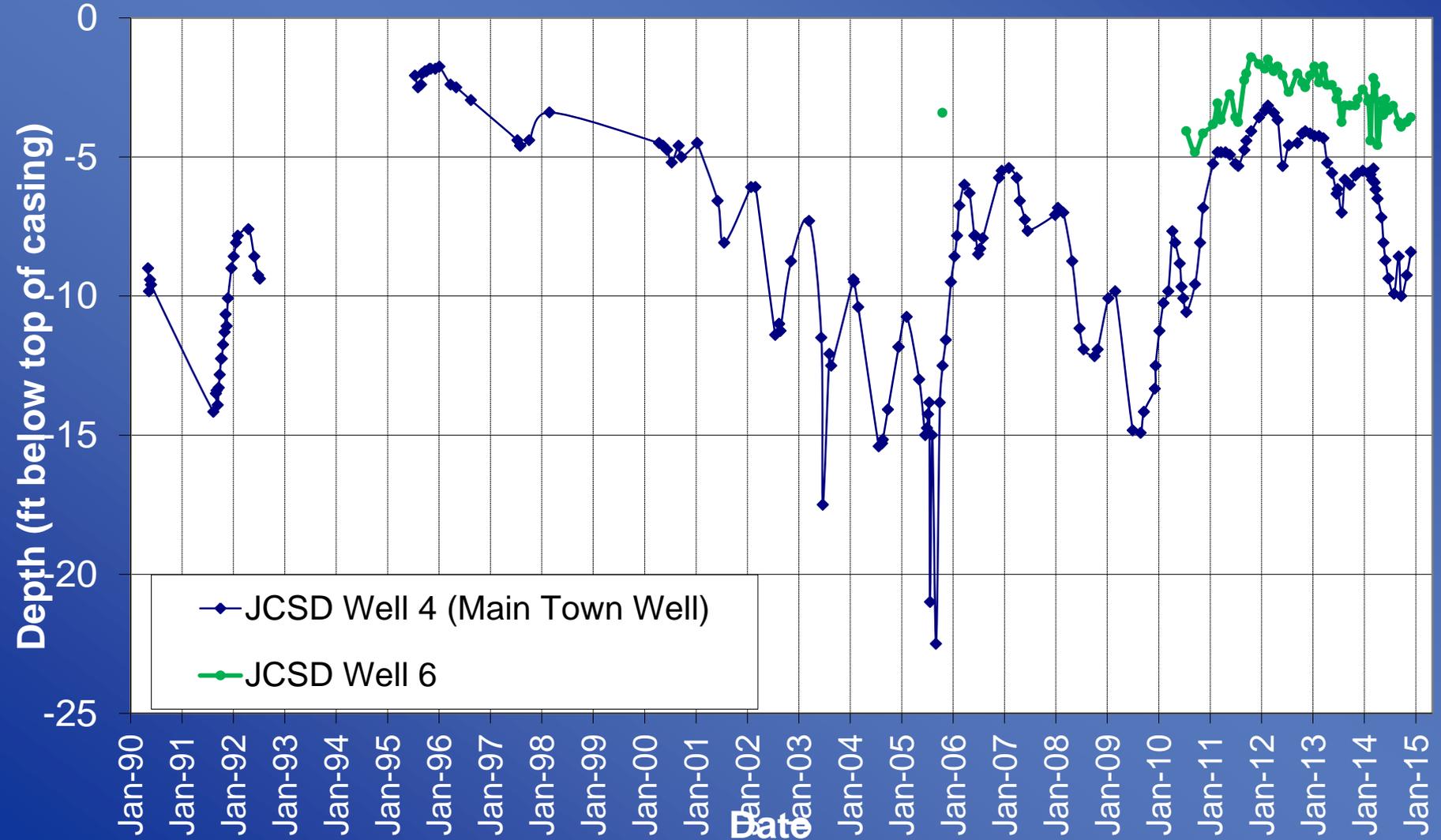
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Tierra Del Sol Hydrographs



Jacumba Town Center Hydrographs



Pine Valley Mutual Water Company Well 5 Hydrograph

