DOCKET	
09-AFC-9	
DATE	MAY 10 2010
RECD.	MAY 17 2010

May 10, 2010

Eric Solorio
Project Manager
California Energy Commission
1516 Ninth Street
Sacramento, CA 95814

RE: Ridgecrest Solar Power Project (RSPP), Docket No. 09-AFC-9, CEC Staff Workshop Solar Millennium PowerPoint Presentations

Dear Mr. Solorio:

As requested, attached please find Solar Millennium's PowerPoint presentations presented during the CEC Staff Workshops on April 22-23 and May 3- 4, 2010. This has being docketed in accordance with CEC requirements.

If you have any questions, please feel free to contact me at 510-809-4662 (office) or 949-433-4049 (cell).

Sincerely,

Billy Owens
Director, Project Development

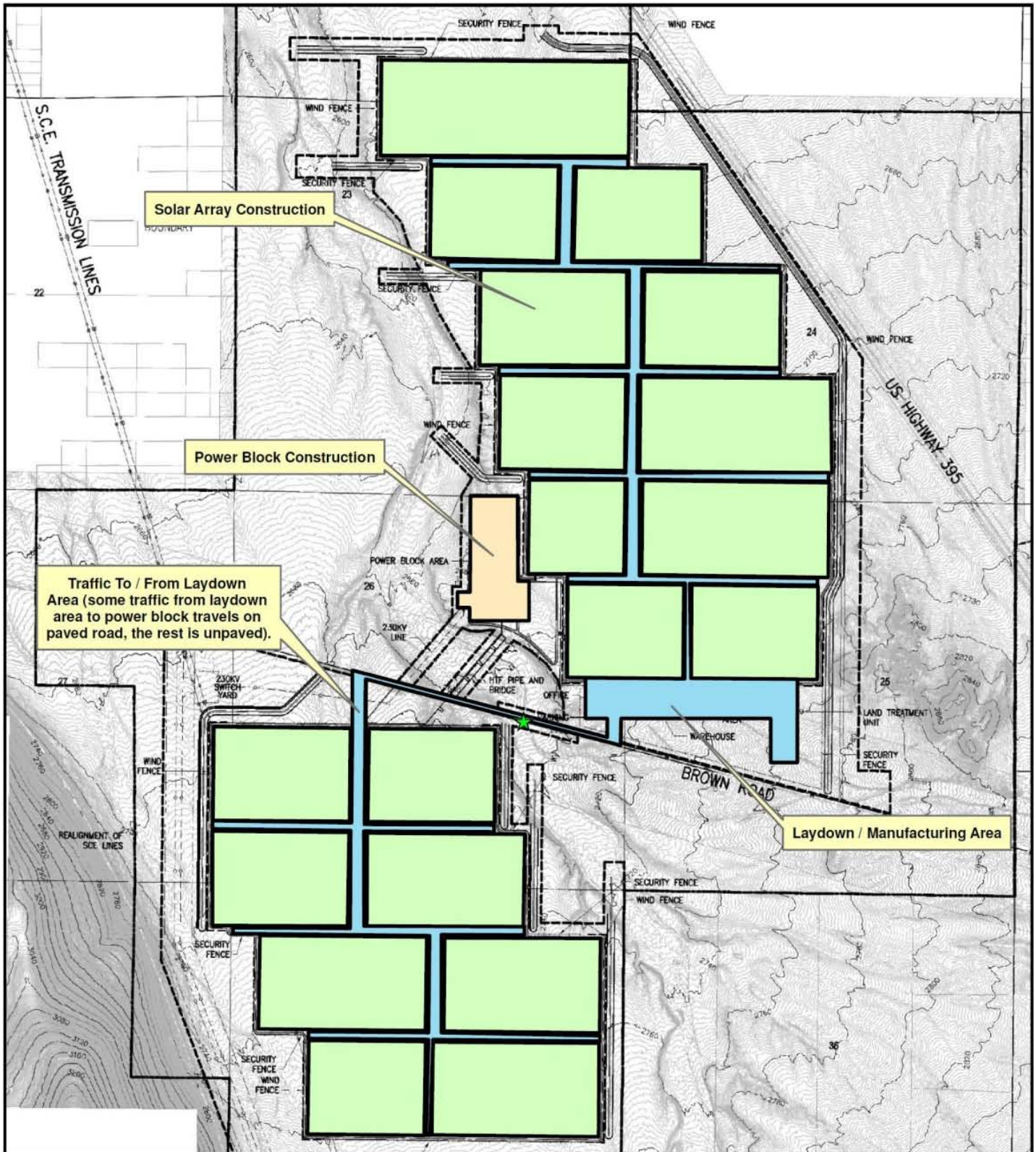
Solar Millennium LLC
1625 Shattuck Avenue, Suite 270
Berkeley, CA 94709-4611
tel (1) 510-524-4517
fax (1) 510-524-5516
Info@SolarMillennium.com
http://www.SolarMillennium.com

Air Quality

Ridgecrest Solar Power Project

Solar Millennium LLC

Figure DR-AIR-6-1 Revised Area Sources Used in Annual Construction Modeling



Locus Map

Legend

- Solar Array Construction
- Power Block Construction
- Laydown Area Traffic

Revised Annual Construction Modeling Sources, Ridgecrest Solar Power Project, Ridgecrest, CA

N
W E
S

Solar Millennium

AECOM

Scale

0 0.25 0.5 1 1.5 2 Kilometers

Figure DR-AIR-6-2 Revised Area Sources Used in Short Term Construction Modeling

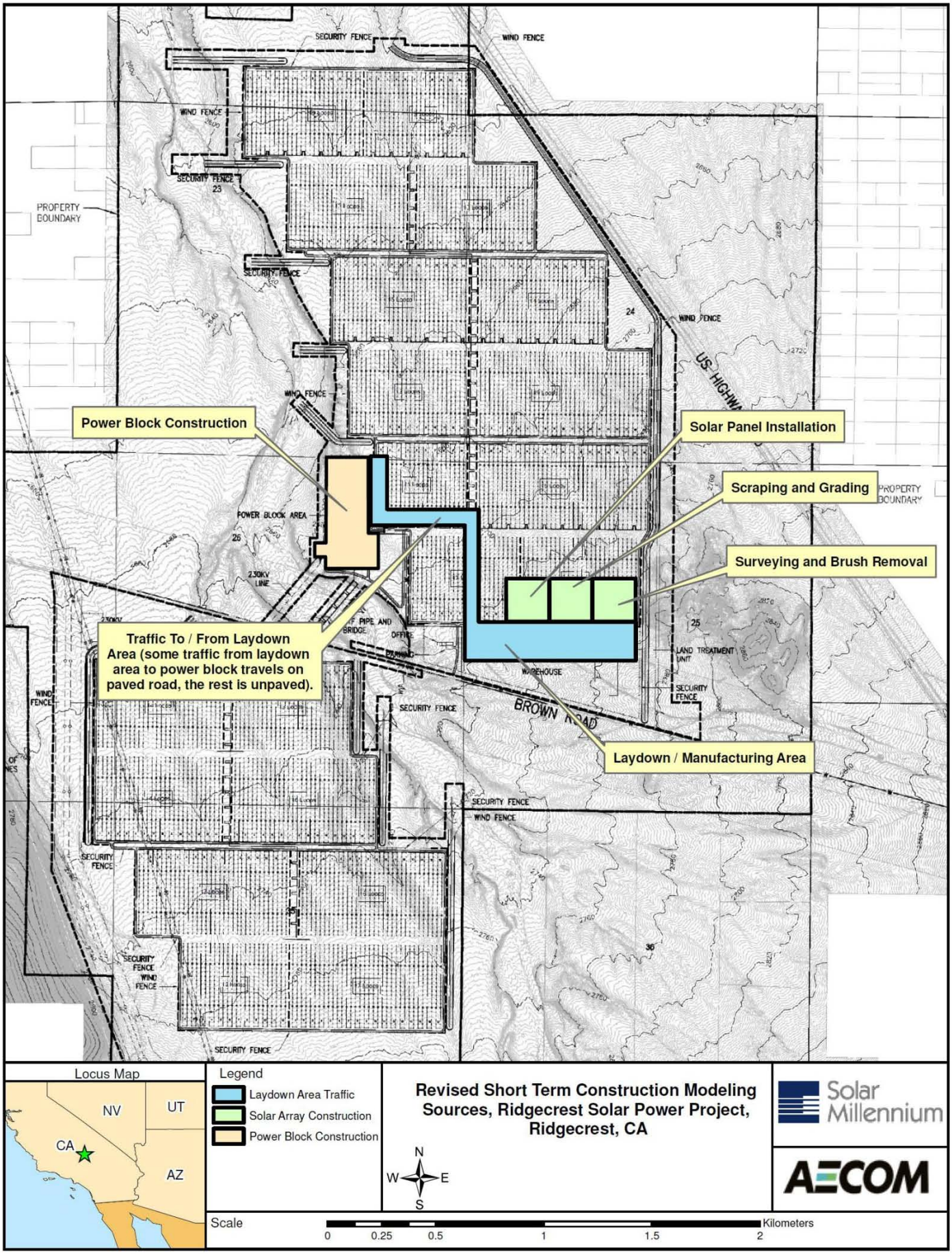
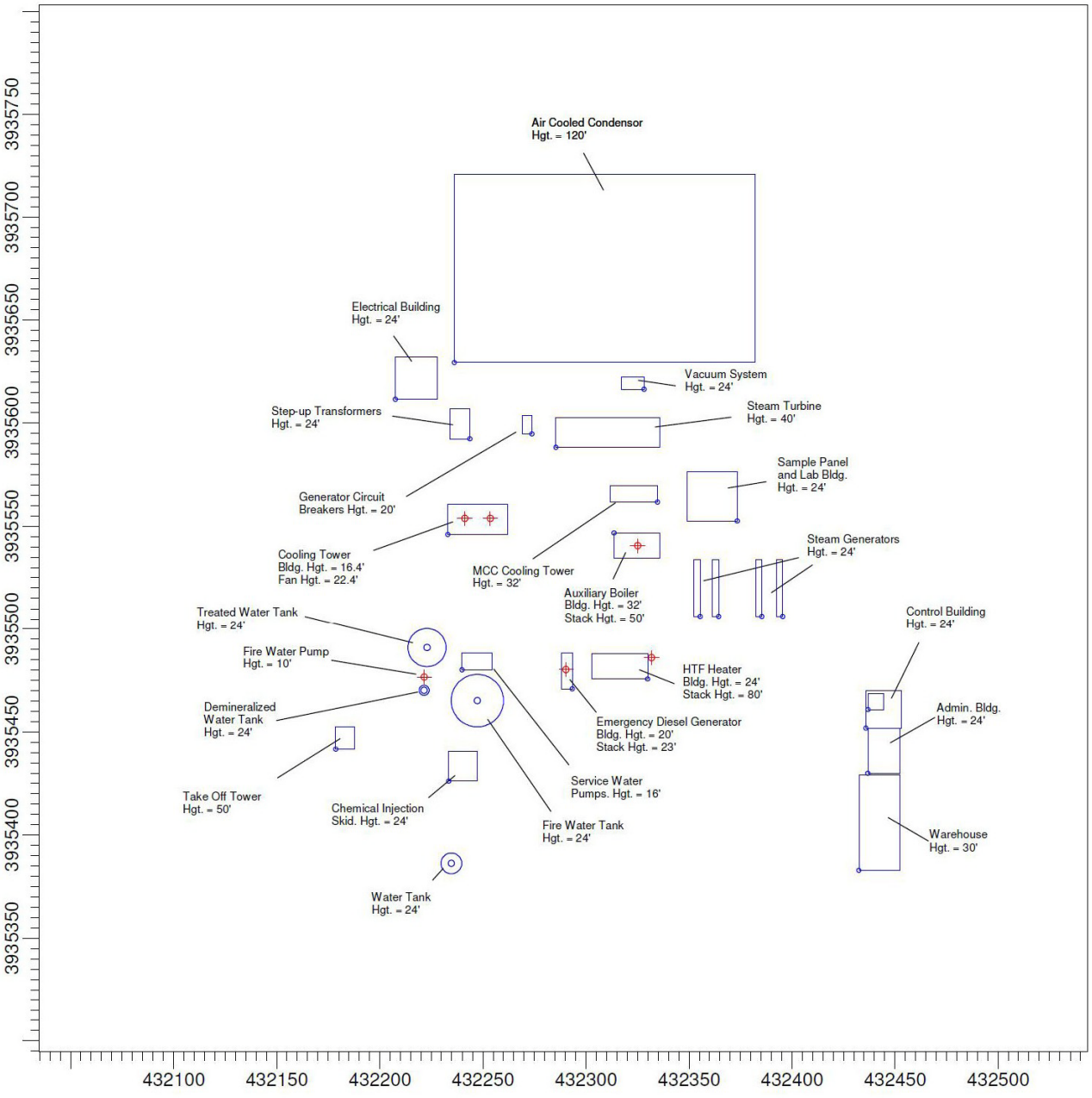


Figure DR-AIR-6-3 Revised Buildings Structures Included in GEP Analysis

PROJECT TITLE:

Structures Evaluated in GEP Analysis
Ridgecrest Solar Power Project



COMMENTS:	SOURCES: **16**	COMPANY NAME:	
	RECEPTORS: **6382**	MODELER:	
		SCALE: 1:3,104 0 0.1 km	
		DATE: **1/19/2010**	PROJECT NO.:

Figure DR-AIR-6-4 Revised Near Field Receptors used in RSPP Modeling Analysis

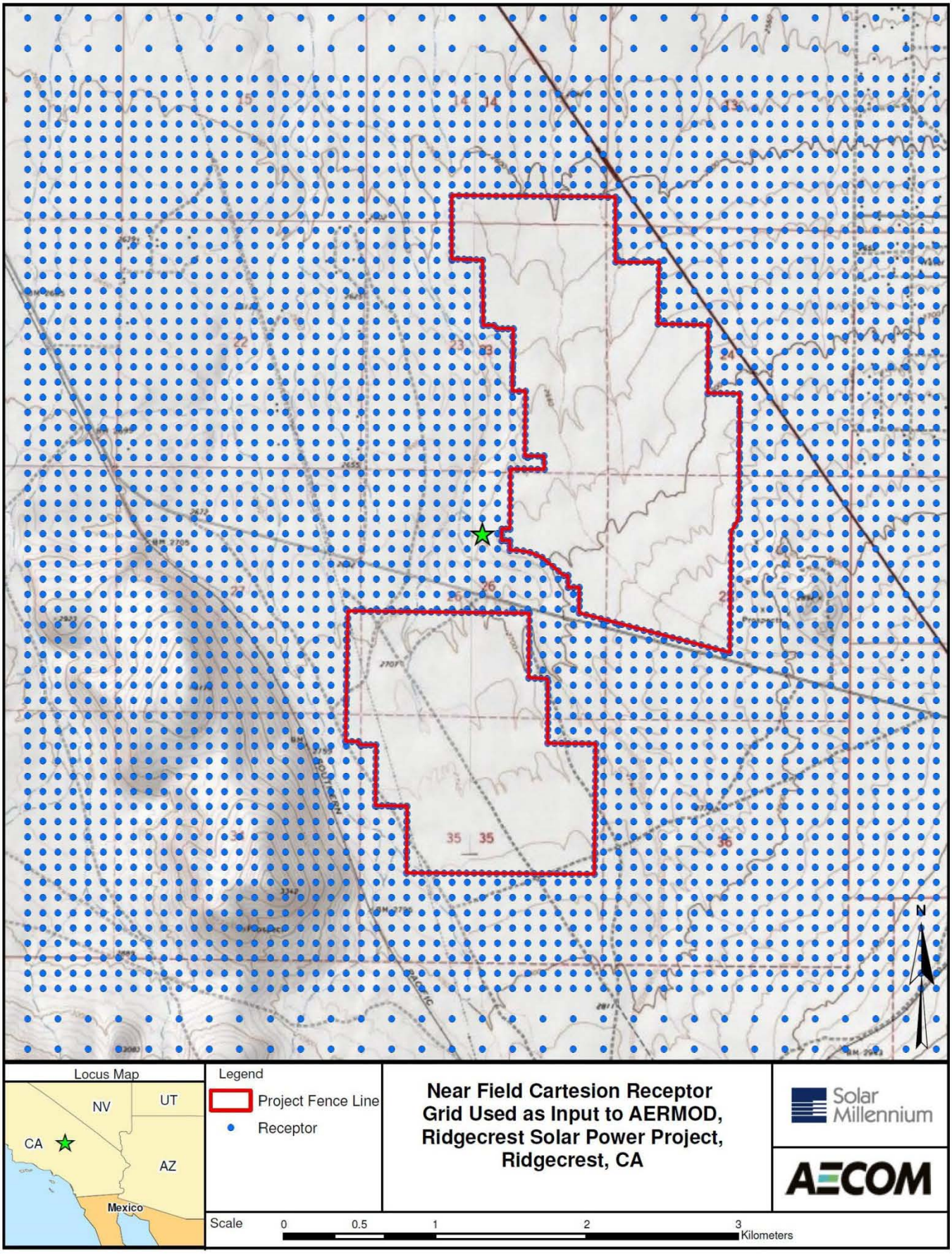


Figure DR-AIR-6-5 Revised Far Field Receptors used in RSPP Modeling Analysis

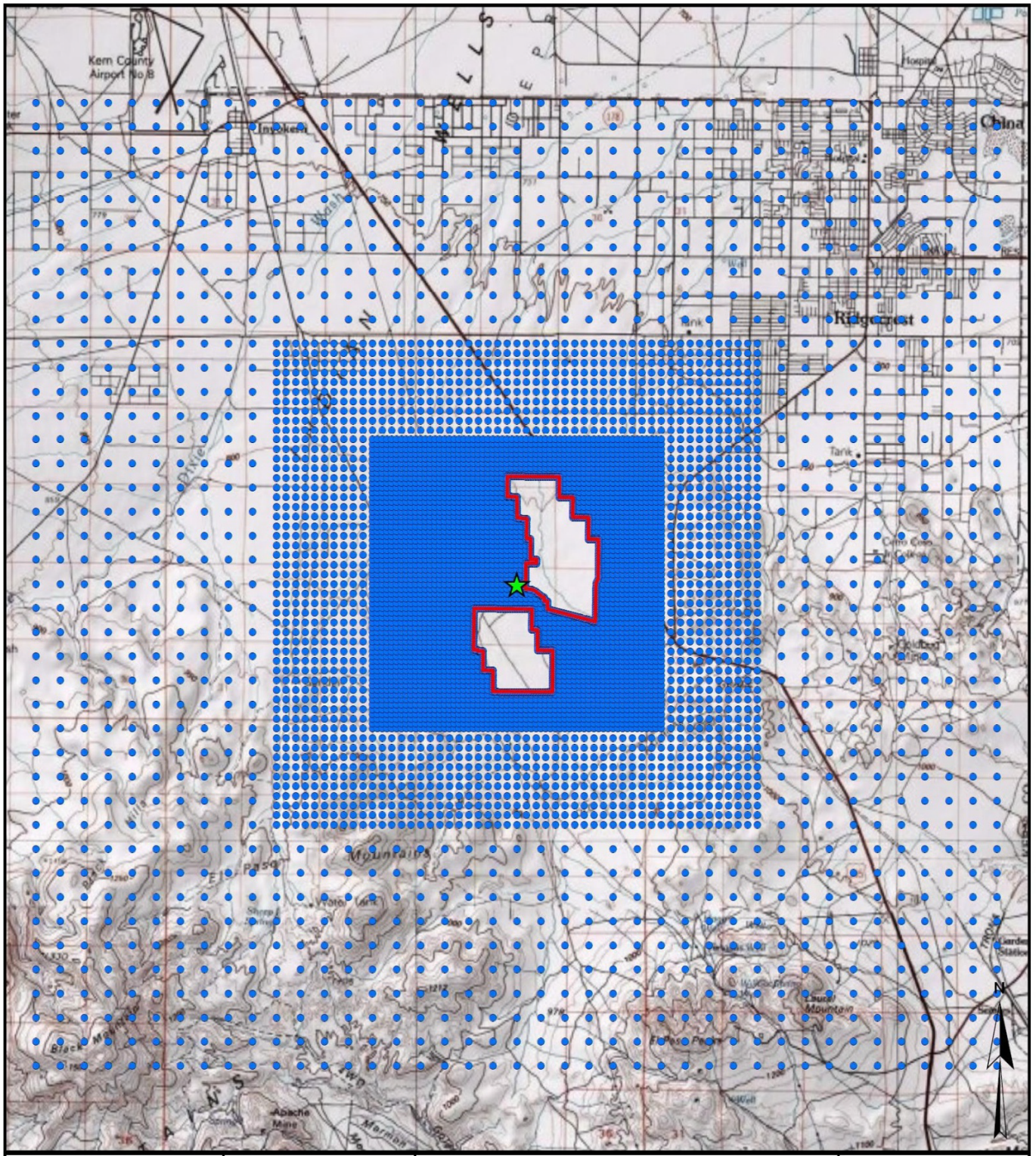
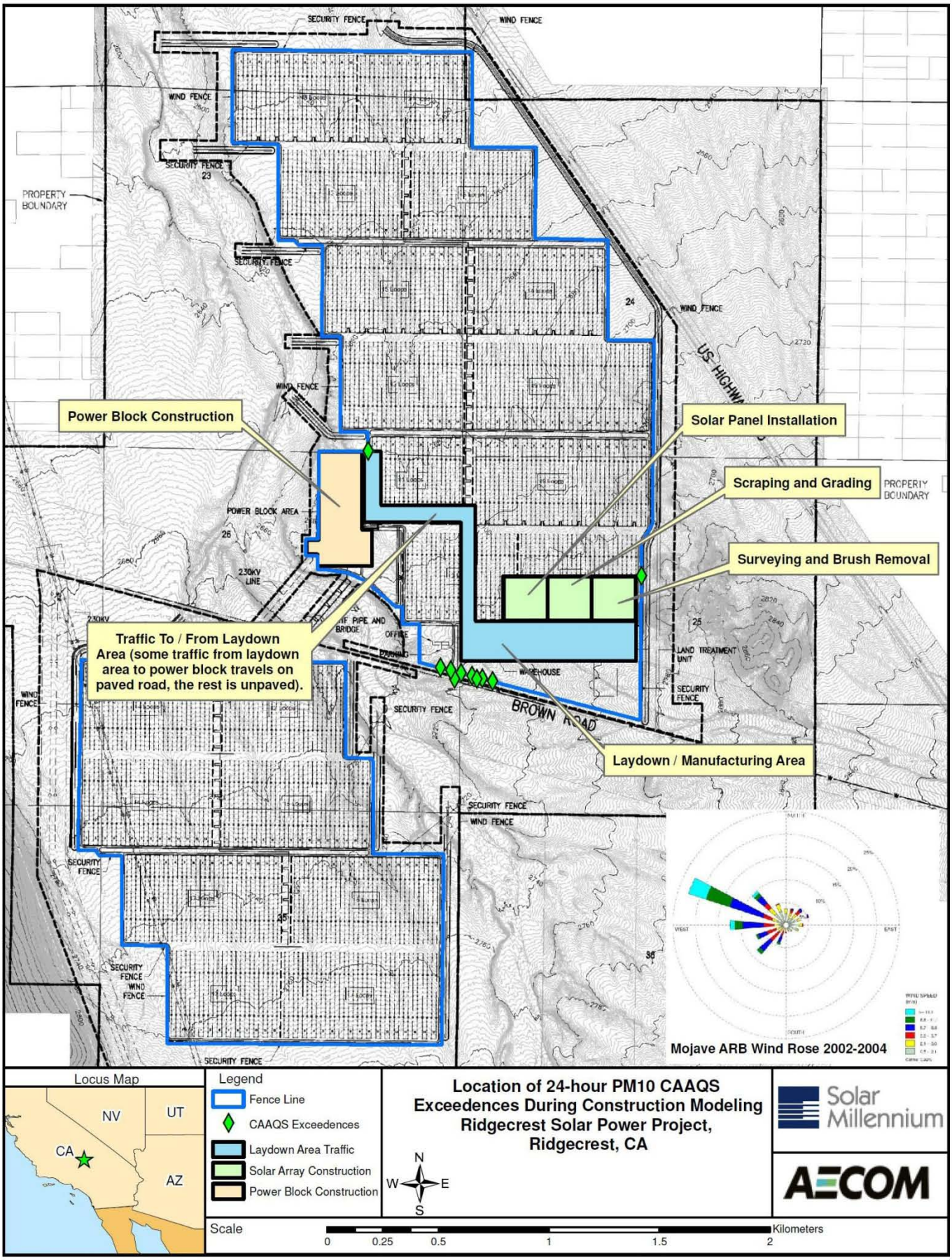


Figure DR-AIR-6-6 Location of Construction Modeling PM10 24-Hour CAAQS Exceedences

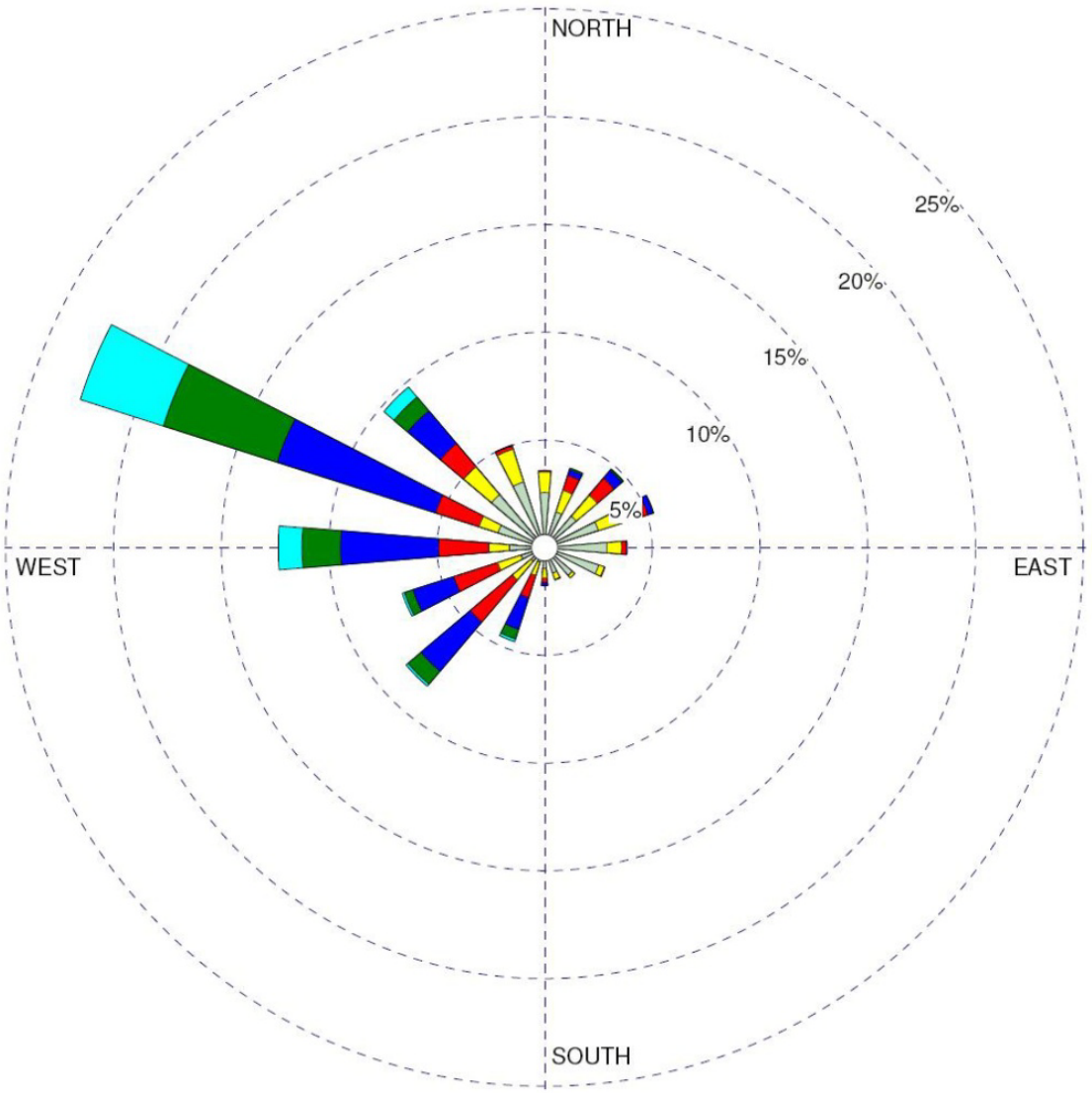


WIND ROSE PLOT:

Mojave ARB Monitoring Station, Mojave, CA
2002-2004 Wind Rose

DISPLAY:

Wind Speed
Direction (blowing from)



WIND SPEED
(m/s)

- >= 11.1
- 8.8 - 11.1
- 5.7 - 8.8
- 3.6 - 5.7
- 2.1 - 3.6
- 0.5 - 2.1

Calms: 0.92%

DATA PERIOD:

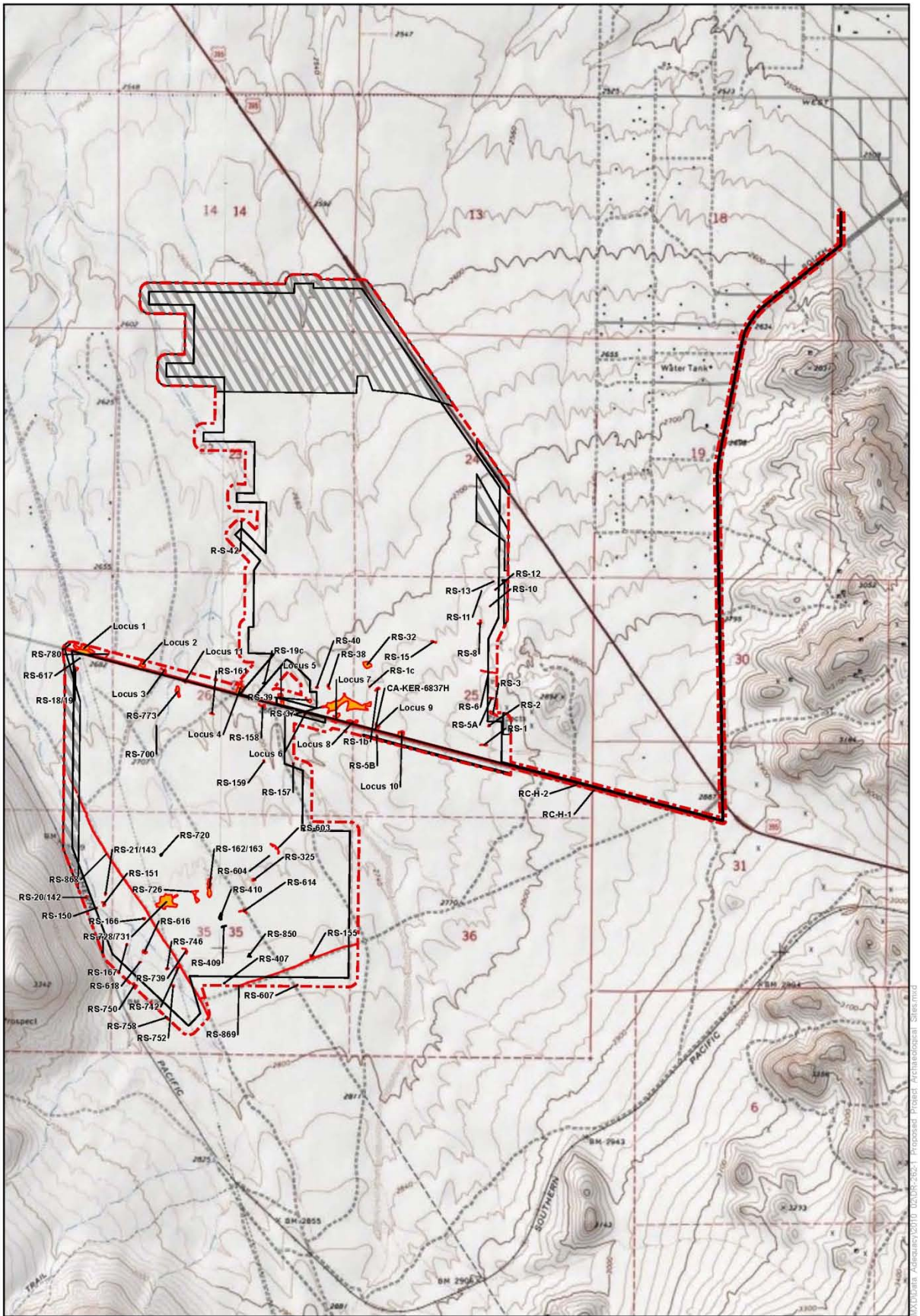
2002 2003 2004
Jan 1 - Dec 31
00:00 - 23:00

CALM WINDS:	TOTAL COUNT:
0.92%	**26304 hrs.**
AVG. WIND SPEED:	DATE:
5.03 m/s	**8/24/2009**

Cultural Resources

Ridgecrest Solar Power Project

Solar Millennium LLC



Map Location

Legend

- Project Disturbance Area
- CEC Buffer
- Area of Disturbance Not Currently Surveyed

Archaeological Site

- Historic
- Prehistoric

Source: USGS 7.5' Quadrangles Inyokern (1972) and Ridgecrest South (1973); AECOM 2009

1 inch = 2,000 feet

0 2,000 4,000 Feet

Ridgecrest Solar Power Project

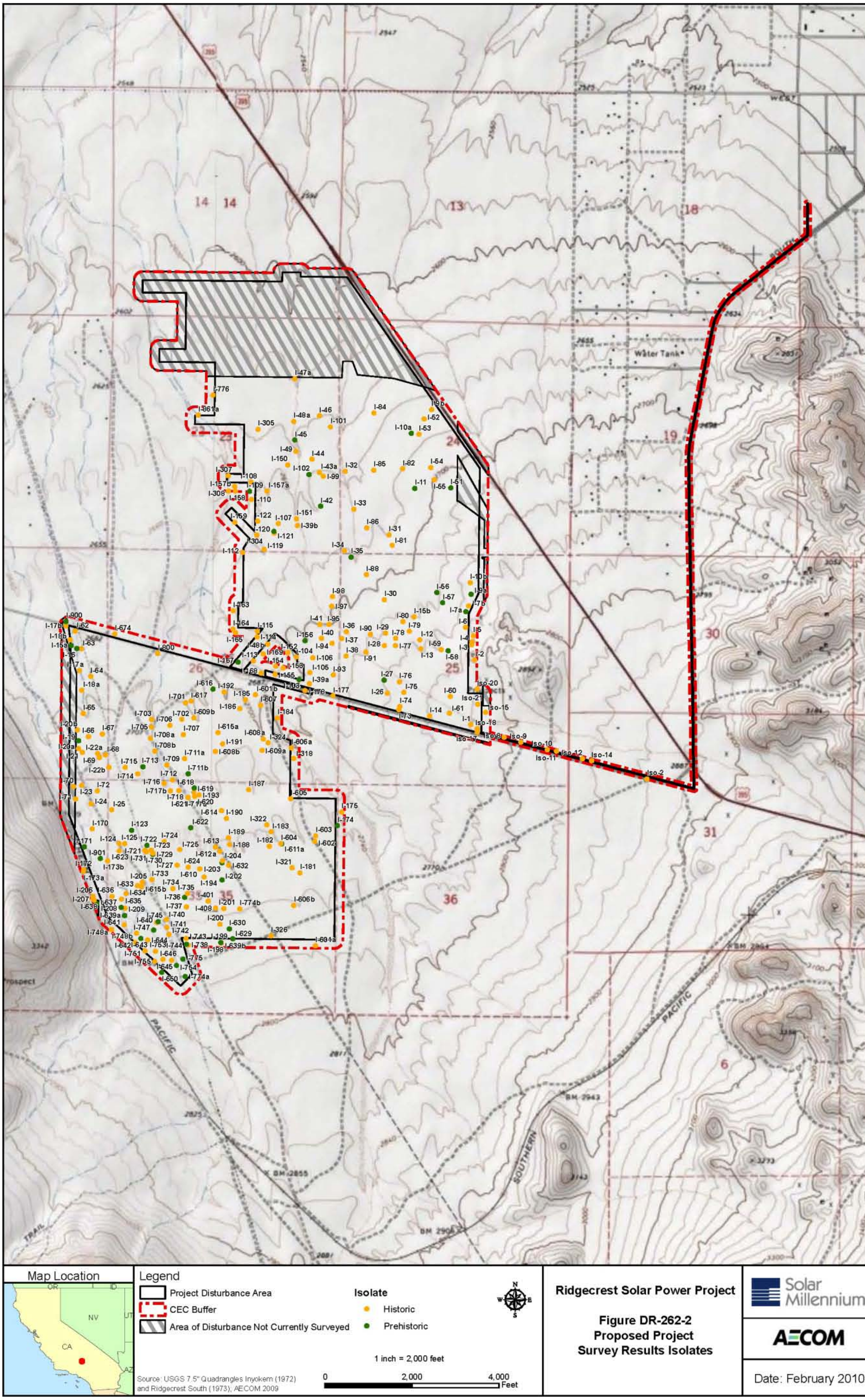
Figure DR-262-1
Proposed Project
Archeological Sites

Solar Millennium

AECOM

Date: February 2010

V:\Projects\Solar Millennium\RSPP\MXD\Data Adequacy\2010 02\DR-262-1 Proposed Project Archaeological Sites.mxd


Water Tank
PACIFIC
SOUTHERN
TRAIL
Prospect
Map Location
OR
ID
NV
UT
CA
AZ
Legend
Project Disturbance Area
CEC Buffer
Area of Disturbance Not Currently Surveyed
Isolate
Historic
Prehistoric
1 inch = 2,000 feet
0
2,000
4,000
Feet
Source: USGS 7.5" Quadrangles Inyokern (1972) and Ridgecrest South (1973); AECOM 2009
Ridgecrest Solar Power Project
Figure DR-262-2
Proposed Project
Survey Results Isolates
Solar Millennium
AECOM
Date: February 2010

Floodplain

Ridgecrest Solar Power Project

Solar Millennium LLC

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures.** Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 11. The **horizontal datum** was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum.** For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, MD 20910-3282

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713-3242,** or visit its website at http://www.ngs.noaa.gov/.

Base map information shown on this FIRM was derived from USDA -Farm Service Agency -Aerial Photography Field Office dated 2005 and from U.S. Geological Survey Digital Orthophoto Quadrangles produced at a scale of 1:12,000 from photography dated 1992 or later.

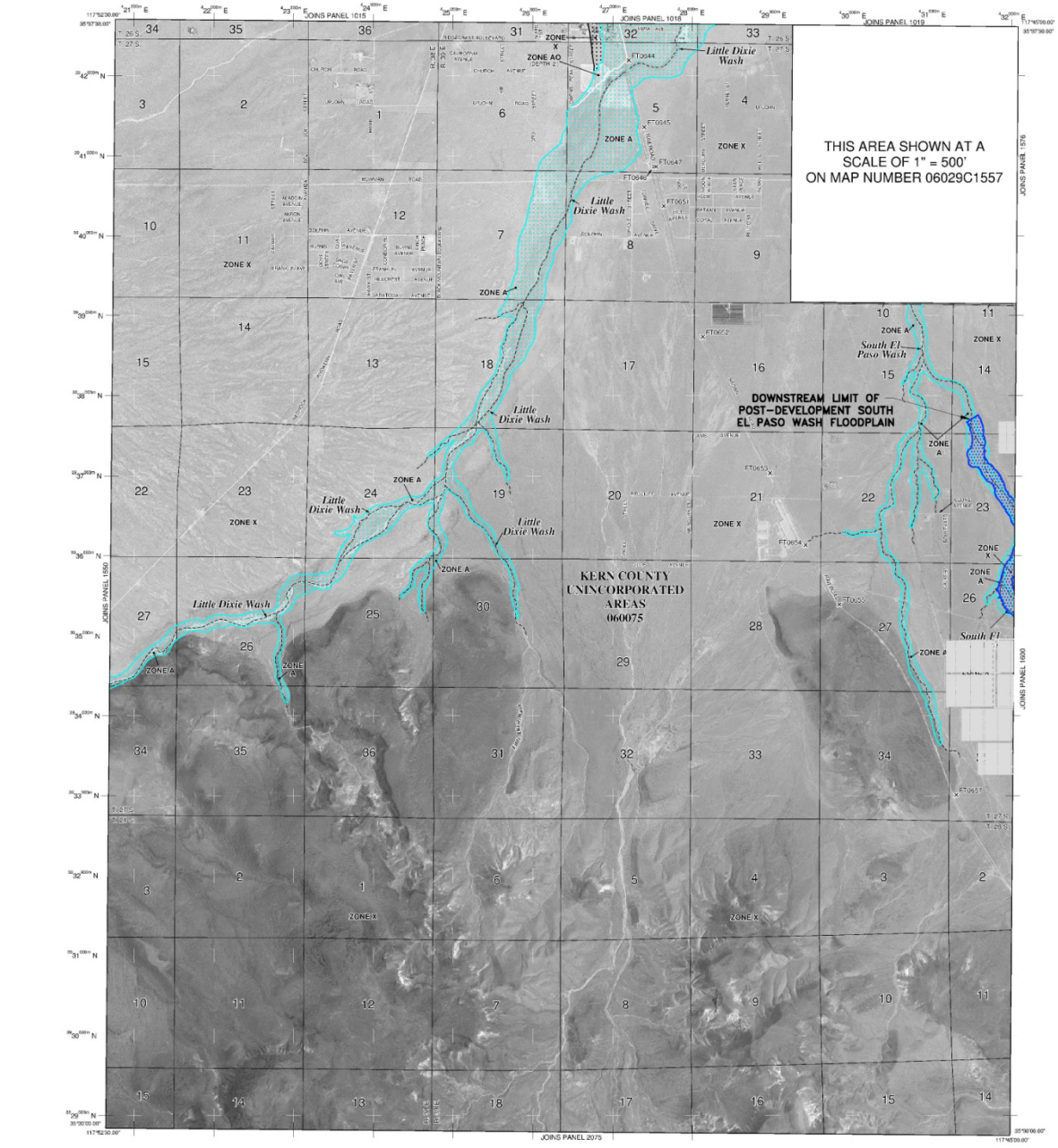
This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the *Flood Insurance Study report (which contains authoritative hydraulic data)* may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a *Flood Insurance Study* report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at http://www.msc.fema.gov/.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1-877-FEMA MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/.



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include: Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood.

- ZONE A — No Base Flood Elevations determined.
- ZONE AE — Base Flood Elevations determined.
- ZONE AH — Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO — Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR — Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99 — Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V — Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE — Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

- ZONE X — Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

- ZONE X — Areas determined to be outside the 0.2% annual chance floodplain.
- ZONE D — Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988 (NAVD 88)

- A — A — Cross section line
- 23 — 23 — Transect line
- 97°07'30", 32°22'30" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
- 4275000mN — 1000-meter Universal Transverse Mercator grid ticks, zone 11
- 6000000 M — 5000-foot grid ticks: California State Plane coordinate system, V zone (FIPSZONE 0405), Lambert Conformal Conic
- DX5510 — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 — River Mile

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
September 26, 2008
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 2000'
1000 0 2000 4000 FEET
600 0 600 1200 METERS

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 1575E

FIRM
FLOOD INSURANCE RATE MAP
KERN COUNTY, CALIFORNIA
AND INCORPORATED AREAS

PANEL 1575 OF 4125
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
KERN COUNTY	060075	1575	E

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
06029C1575E

EFFECTIVE DATE
SEPTEMBER 26, 2008

Federal Emergency Management Agency

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures.** Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 11. The **horizontal datum** was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum.** For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, MD 20910-3282

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713-3242,** or visit its website at http://www.ngs.noaa.gov/.

Base map information shown on this FIRM was derived from USDA - Farm Service Agency - Aerial Photography Field Office dated 2005 and from U.S. Geological Survey Digital Orthophoto Quadrangles produced at a scale of 1:12,000 from photography dated 1992 or later.

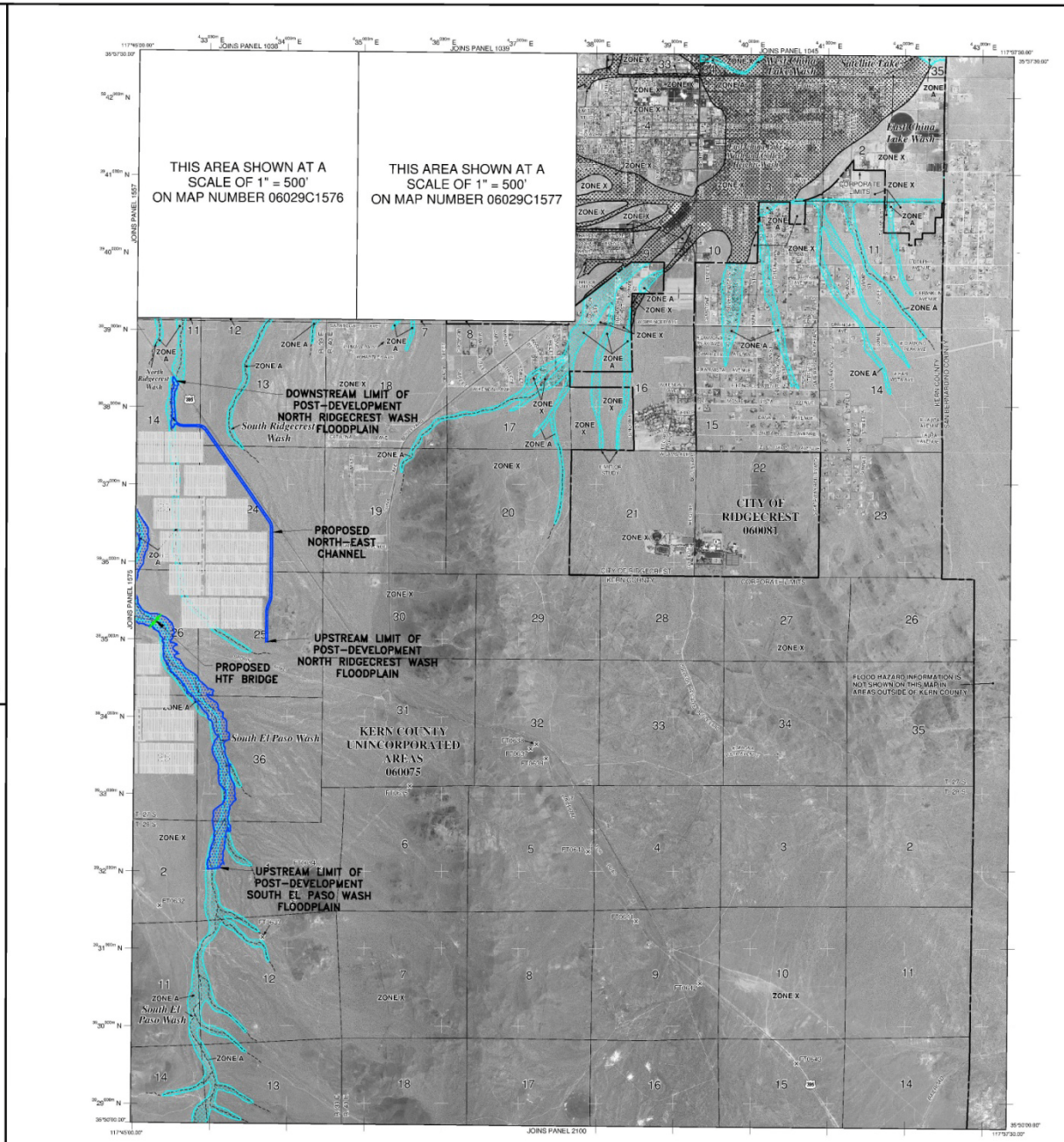
This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables *in the Flood Insurance Study report (which contains authoritative hydraulic data)* may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, *a Flood Insurance Study report,* and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at http://www.msc.fema.gov/.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1-877-FEMA MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/.



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- **ZONE A** No Base Flood Elevations determined.
- **ZONE AE** Base Flood Elevations determined.
- **ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- **ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- **ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- **ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- **ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- **ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

- **ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

- **ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
- **ZONE D** Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- 513 Base Flood Elevation line and value; elevation in feet*
- (EL. 987) Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988 (NAVD 88)

- A — A Cross section line
- 23 — 23 Transect line
- 97°07'30", 32°22'30" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
- 4275000mN 1000-meter Universal Transverse Mercator grid ticks, zone 11
- 6000000 M 5000-foot grid ticks: California State Plane coordinate system, V zone (FIPSZONE 0405), Lambert Conformal Conic
- DX5510 Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 River Mile

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
September 26, 2008
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 2000'
1000 0 2000 4000 FEET
600 0 600 1200 METERS

NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 1600E

FIRM
FLOOD INSURANCE RATE MAP
KERN COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1600 OF 4125
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
KERN COUNTY	060075	1600	E
RIDGECREST, CITY OF	060081	1600	E

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
06029C1600E
EFFECTIVE DATE
SEPTEMBER 26, 2008

Federal Emergency Management Agency

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures.** Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 11. The **horizontal datum** was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum.** For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, MD 20910-3282

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713-3242,** or visit its website at http://www.ngs.noaa.gov/.

Base map information shown on this FIRM was derived from USDA - Farm Service Agency - Aerial Photography Field Office dated 2005 and from U.S. Geological Survey Digital Orthophoto Quadrangles produced at a scale of 1:12,000 from photography dated 1992 or later.

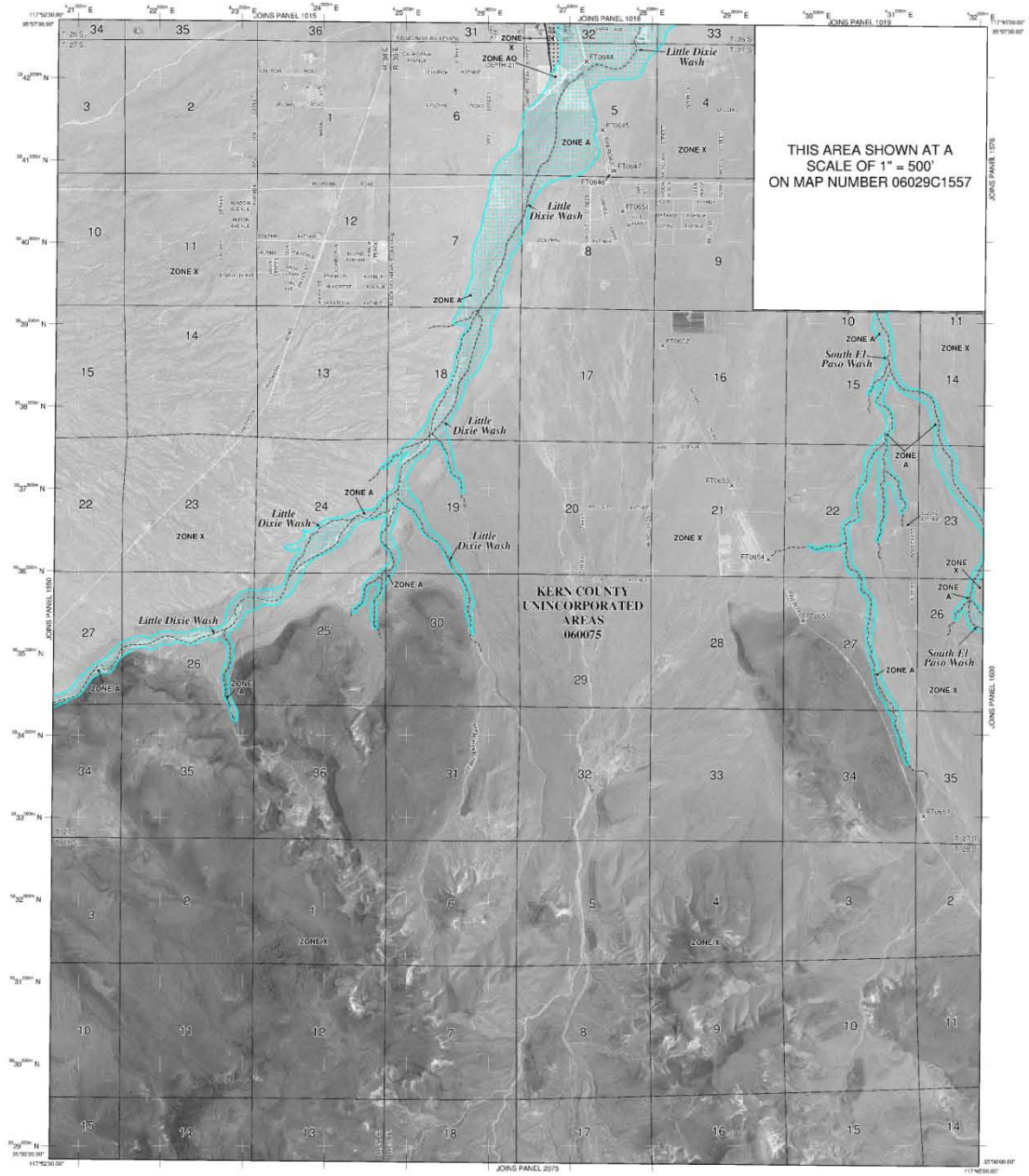
This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables *in the Flood Insurance Study report (which contains authoritative hydraulic data)* may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a *Flood Insurance Study* report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at http://www.msc.fema.gov/.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1-877-FEMA MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/.



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- **ZONE A** — No Base Flood Elevations determined.
- **ZONE AE** — Base Flood Elevations determined.
- **ZONE AH** — Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- **ZONE AO** — Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- **ZONE AR** — Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- **ZONE A99** — Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- **ZONE V** — Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- **ZONE VE** — Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

- **ZONE X** — Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

- **ZONE X** — Areas determined to be outside the 0.2% annual chance floodplain.
- **ZONE D** — Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988 (NAVD 88)

- A — A — Cross section line
- 23 — 23 — Transect line
- 97°07'30", 32°22'30" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
- 4275000mN — 1000-meter Universal Transverse Mercator grid ticks, zone 11
- 6000000 M — 5000-foot grid ticks: California State Plane coordinate system, V zone (FIPSZONE 0405), Lambert Conformal Conic
- DX5510 — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 — River Mile

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
September 26, 2008
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 2000'
1000 0 2000 4000 FEET
300 0 600 1200 METERS

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 1575E

FIRM
FLOOD INSURANCE RATE MAP
KERN COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1575 OF 4125
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
KERN COUNTY	060075	1575	E

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
06029C1575E
EFFECTIVE DATE
SEPTEMBER 26, 2008

Federal Emergency Management Agency

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0 North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 11. The **horizontal datum** was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, MD 20910-3282

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) **713-3242,** or visit its website at http://www.ngs.noaa.gov/.

Base map information shown on this FIRM was derived from USDA--Farm Service Agency --Aerial Photography Field Office dated 2005 and from U.S. Geological Survey Digital Orthophoto Quadrangles produced at a scale of 1:12,000 from photography dated 1992 or later.

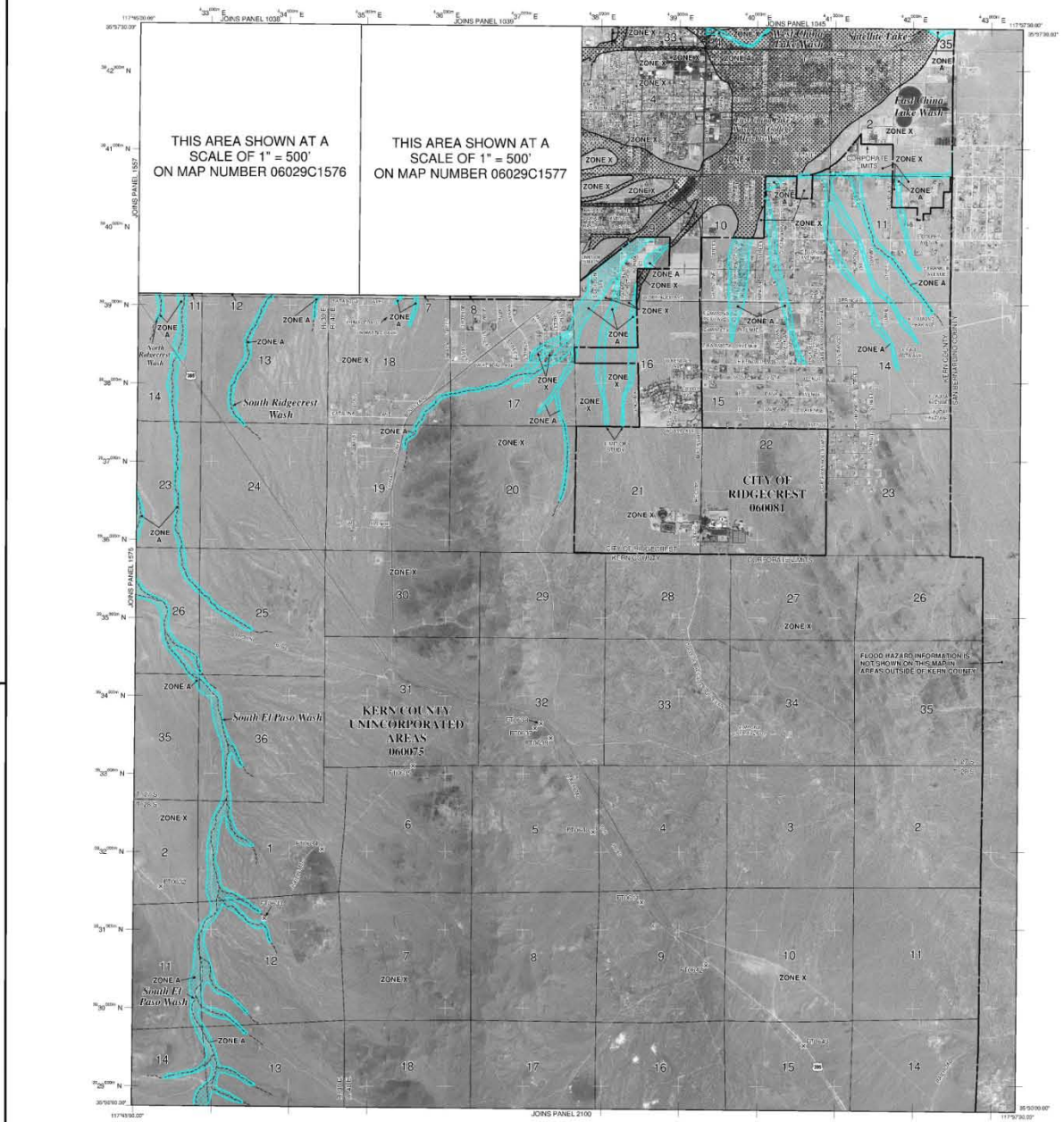
This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at http://www.msc.fema.gov/.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1-877-FEMA MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/.



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- **ZONE A** No Base Flood Elevations determined.
- **ZONE AE** Base Flood Elevations determined.
- **ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- **ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- **ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- **ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- **ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- **ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

- **ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

- **ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
- **ZONE D** Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988 (NAVD 88)

- A — A — Cross section line
- 23 — 23 — Transect line
- 97°07'30", 32°22'30" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
- 4275000mN — 1000-meter Universal Transverse Mercator grid ticks, zone 11
- 6000000 M — 5000-foot grid ticks: California State Plane coordinate system, V zone (FIPSZONE 0405), Lambert Conformal Conic
- DX5510 — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 — River Mile

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
September 26, 2008
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 2000'
1000 0 2000 4000 FEET
600 0 600 1200 METERS

NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 1600E

FIRM
FLOOD INSURANCE RATE MAP
KERN COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1600 OF 4125
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
KERN COUNTY	060075	1600	E
RIDGECREST, CITY OF	060081	1600	E

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
06029C1600E

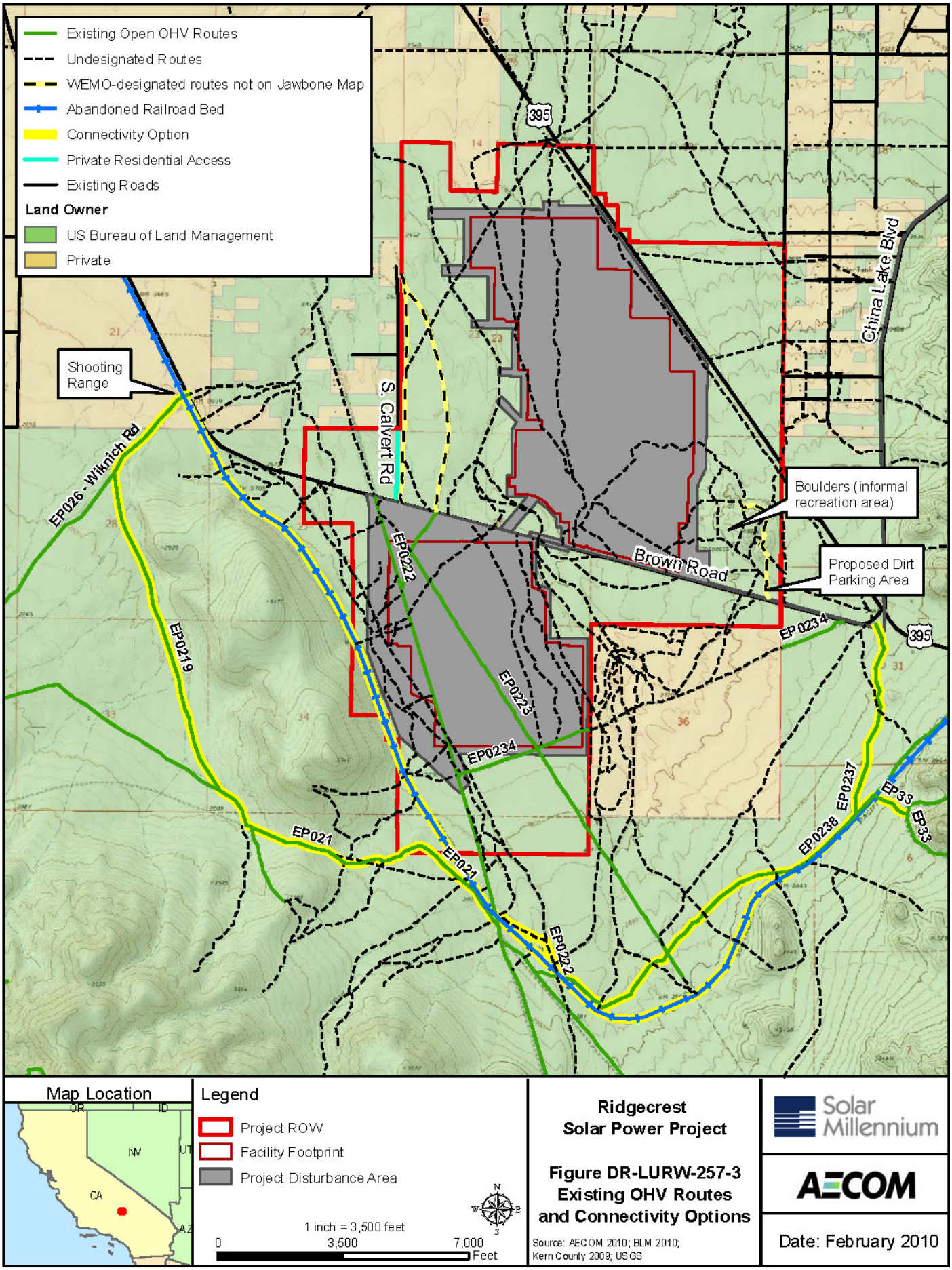
EFFECTIVE DATE
SEPTEMBER 26, 2008

Federal Emergency Management Agency

LURW

Ridgecrest Solar Power Project

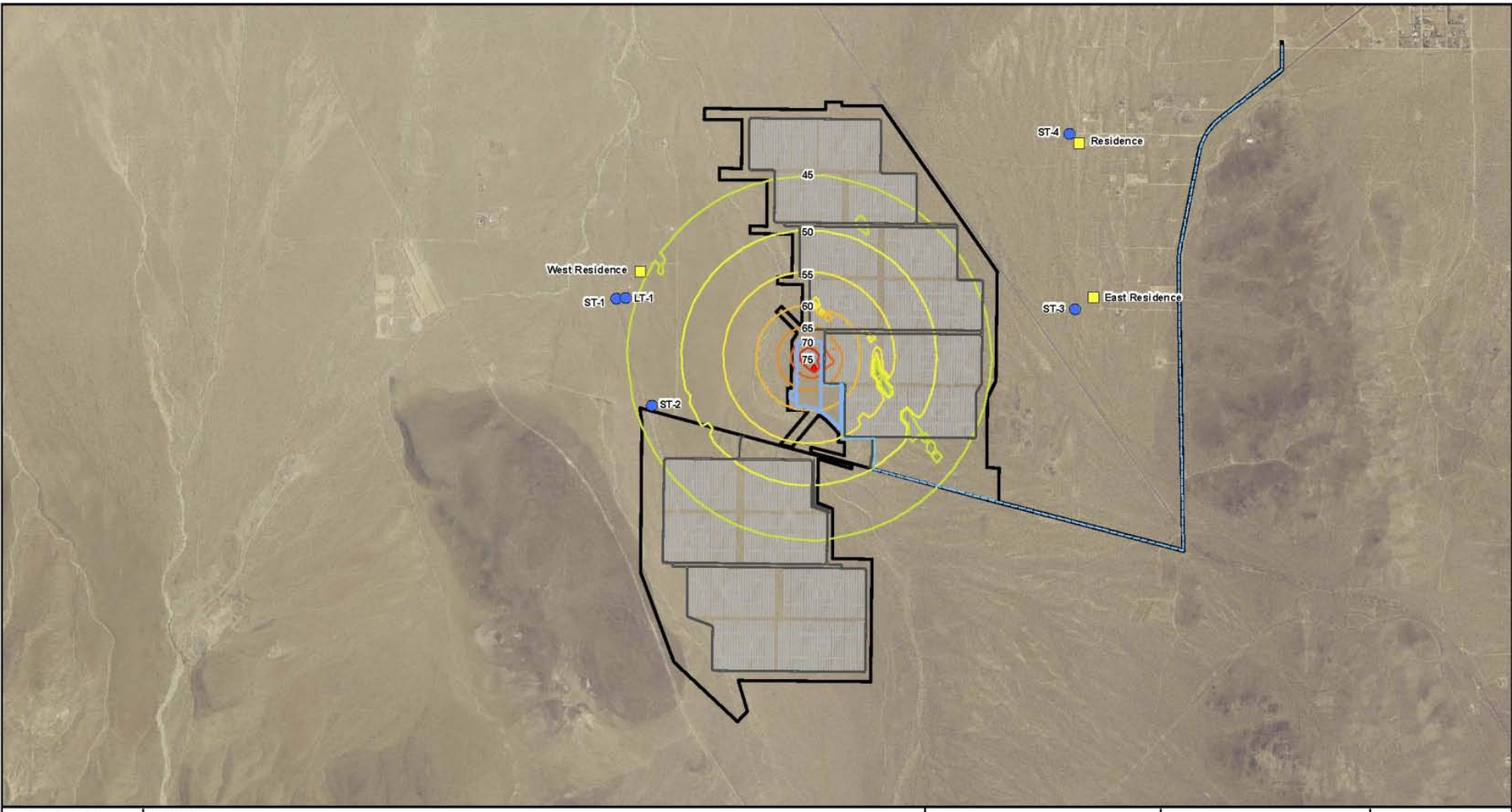
Solar Millennium LLC


Existing Open OHV Routes
Undesignated Routes
WEMO-designated routes not on Jawbone Map
Abandoned Railroad Bed
Connectivity Option
Private Residential Access
Existing Roads
Land Owner
US Bureau of Land Management
Private
395
China Lake Blvd
Shooting Range
S. Calvert Rd
EP026 - Wiknich Rd
EP0222
Brown Road
Boulders (informal recreation area)
Proposed Dirt Parking Area
EP0234
EP0219
EP0223
EP021
EP024
EP0237
EP33
EP0238
Map Location
OR
ID
NV
UT
CA
AZ
Legend
Project ROW
Facility Footprint
Project Disturbance Area
N
W
E
S
1 inch = 3,500 feet
0
3,500
7,000
Feet
Ridgecrest
Solar Power Project
Figure DR-LURW-257-3
Existing OHV Routes
and Connectivity Options
Source: AECOM 2010; BLM 2010;
Kern County 2009; USGS
Solar Millennium
AECOM
Date: February 2010

Noise

Ridgecrest Solar Power Project

Solar Millennium LLC



Map Location

Legend

- Disturbance Area
- Facilities Layout
- Solar Loops
- Power Block
- Water Line Route
- Residence
- Noise Measurement Location

Noise Contours

- 45 dBA Leq
- 50 dBA Leq
- 55 dBA Leq
- 60 dBA Leq
- 65 dBA Leq
- 70 dBA Leq
- 75 dBA Leq
- 80 dBA Leq

Source: NAIP 2005; CNDDB 2009; AECOM 2009; EDAW 2009

N
W
E
S

1 inch = 2,500 feet

0 2,500 5,000 Feet

Ridgecrest Solar Power Project

Figure 5.8-1
Noise Measurement Locations and Noise Contours

Solar Millennium

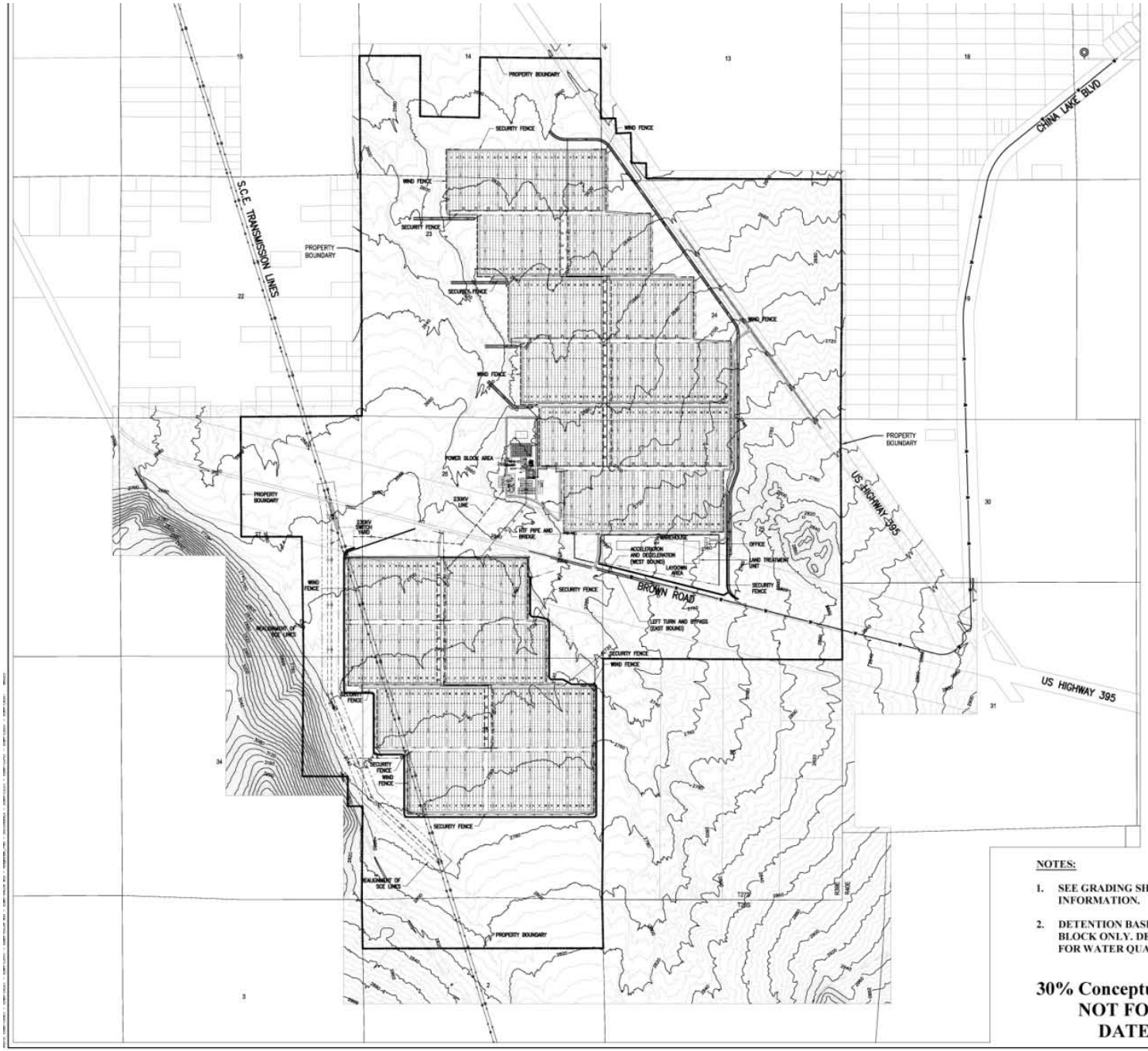
AECOM

Date: February 2010

Site & Grading Plan

Ridgecrest Solar Power Project

Solar Millennium LLC



NOTES:

1. **SEE GRADING SHEETS 4-7 FOR DETAILED INFORMATION.**
2. **DETENTION BASIN IS PROVIDED AT POWER BLOCK ONLY. DETENSION BASIN IS PROVIDED FOR WATER QUALITY PURPOSES.**

30% Conceptual Engineering Plans
NOT FOR CONSTRUCTION
DATED: February 10, 2010

AECOM
5001 E. Commercenter Dr.
Bakersfield, Ca 93309
Phone 661.325.7253
www.aecom.com

Designed: W. BLACK
Checked: W. BLACK
Drawn: K. S. BEDFORD
Record Drawing by/date:

Revisions:
#	DATE	DESCRIPTION

Prepared for:
Solar Millennium LLC

LEGEND:

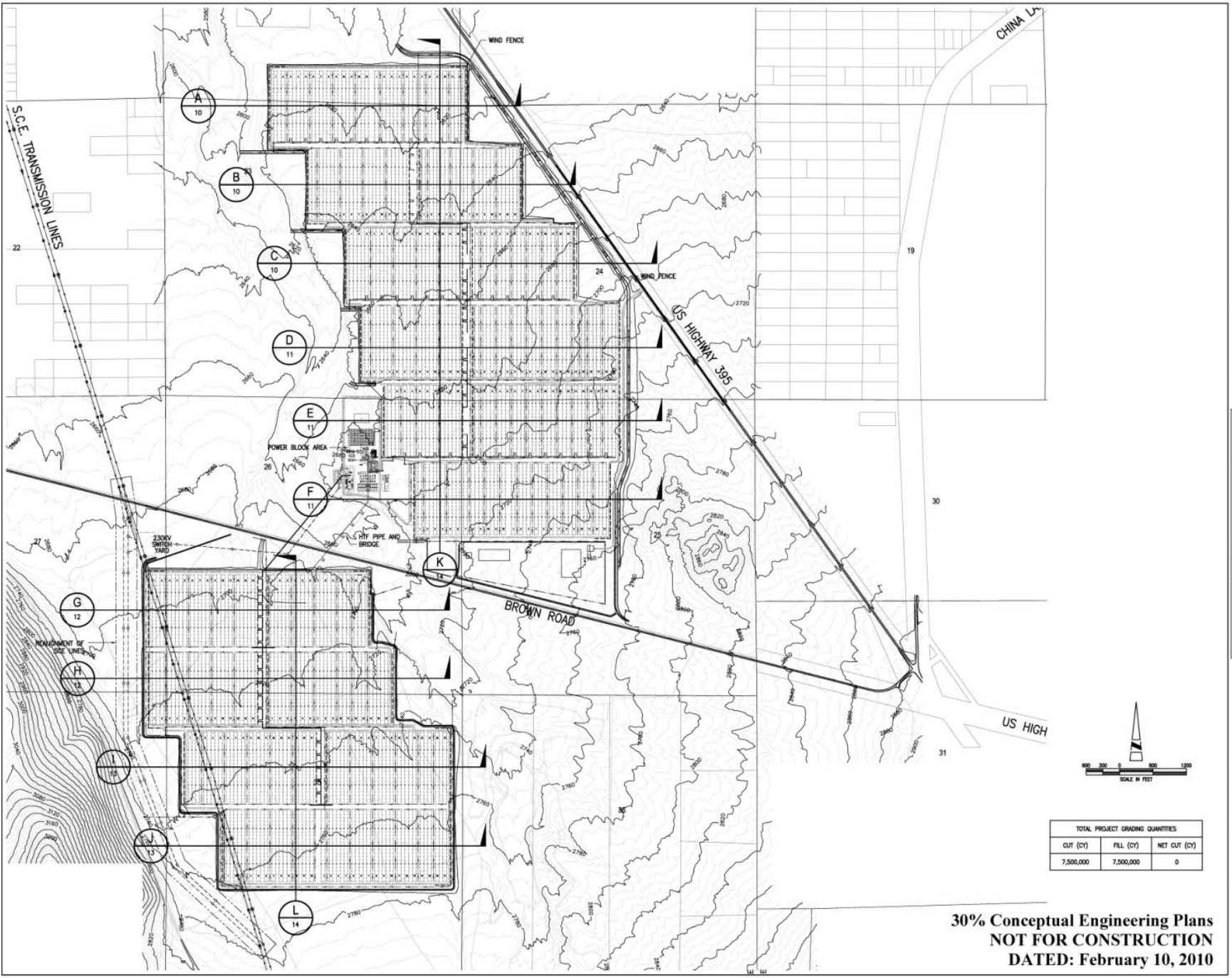
- SOLAR FIELD PARABOLIC TROUGH
- BALANCE OF PLANT FACILITIES
- PROPOSED ACCESS ROAD (PAVED)
- PROPOSED ACCESS ROAD (GRAVEL)
- RAILROAD
- PROPOSED GAS
- PROPOSED WATER
- PROPOSED TELEPHONE
- PROPOSED ELECTRIC
- EXISTING ELECTRIC
- PROPOSED SECURITY FENCE
- PROPOSED WIND FENCE
- EXISTING CONTOURS (10 FOOT INTERVALS)
- PROPOSED DRAINAGE CHANNEL/FLOW DIRECTIO
- EXISTING INTERMITTENT DRAINAGE CHANNEL
- SITE BOUNDARY
- HEADER PIPING
- ACCELERATION LANE

Ridgecrest Solar Power Project

Kern County, California

Preliminary Site Plan

Date: 02/10/10
Sheet: 03 of 34



TOTAL PROJECT GRADING QUANTITIES		
CUT (CY)	FILL (CY)	NET CUT (CY)
7,500,000	7,500,000	0

30% Conceptual Engineering Plans
NOT FOR CONSTRUCTION
DATED: February 10, 2010

AECOM
5001 E. Commercenter Dr.
Bakersfield, Ca 93309
Phone 661.326.7253
www.aecom.com

Designed: W. BLACK
Checked: W. BLACK
Drawn: K. S. BEDFORD
Record Drawing by/date:

Revisions
#	DATE	DESCRIPTION

Prepared for:
Solar Millennium LLC

LEGEND:
- SOLAR FIELD PARABOLIC TROUGH
- BALANCE OF PLANT FACILITIES
- PROPOSED ACCESS ROAD (PAVED)
- PROPOSED ACCESS ROAD (GRAVEL)
- RAILROAD
- PROPOSED GAS
- PROPOSED WATER
- PROPOSED TELEPHONE
- PROPOSED ELECTRIC
- EXISTING ELECTRIC
- PROPOSED SECURITY FENCE
- PROPOSED WIND FENCE
- EXISTING CONTOURS (10 FOOT INTERVALS)
- PROPOSED DRAINAGE CHANNEL/FLOW DIRECTION
- EXISTING INTERMITTENT DRAINAGE CHANNEL
- SITE BOUNDARY
- HEADER PIPING
- ACCELERATION LANE

SCALE IN FEET

Ridgecrest Solar Power Project

Kern County, California

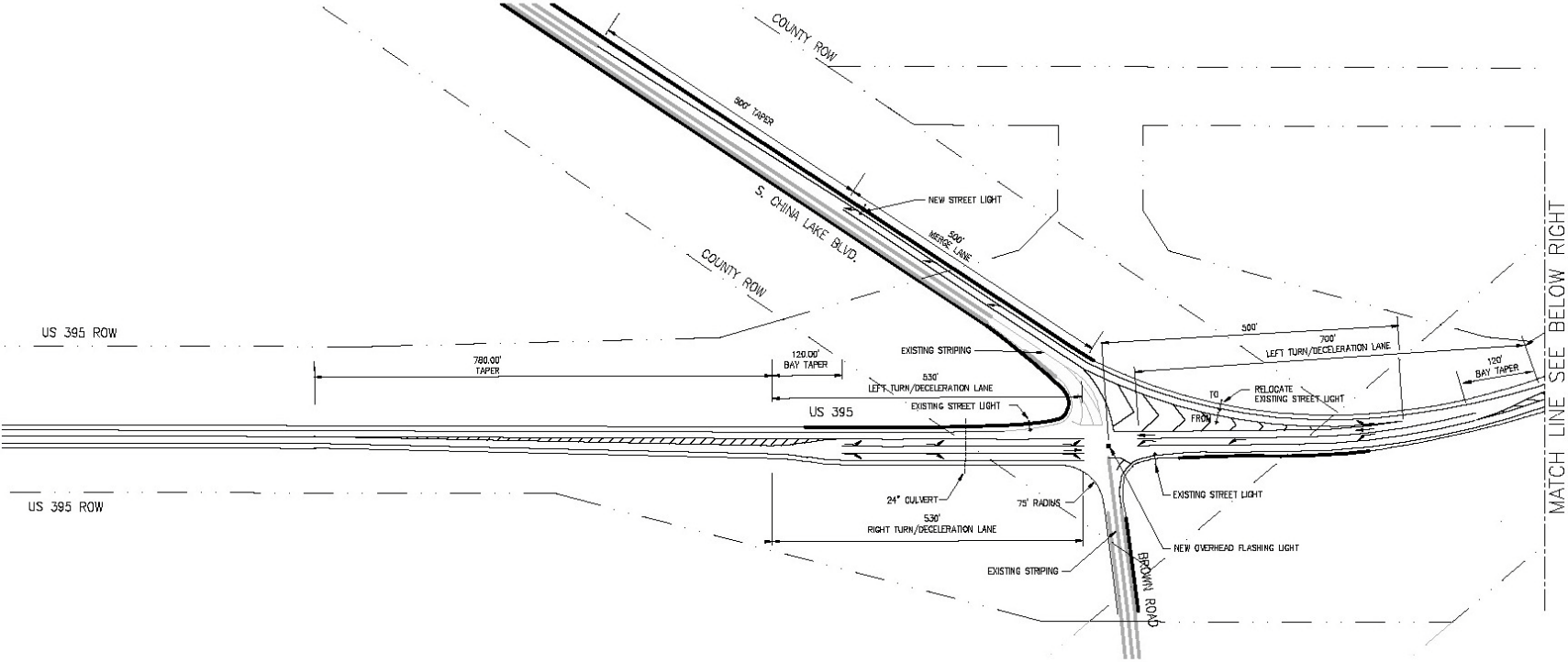
Preliminary Overall Grading Plan

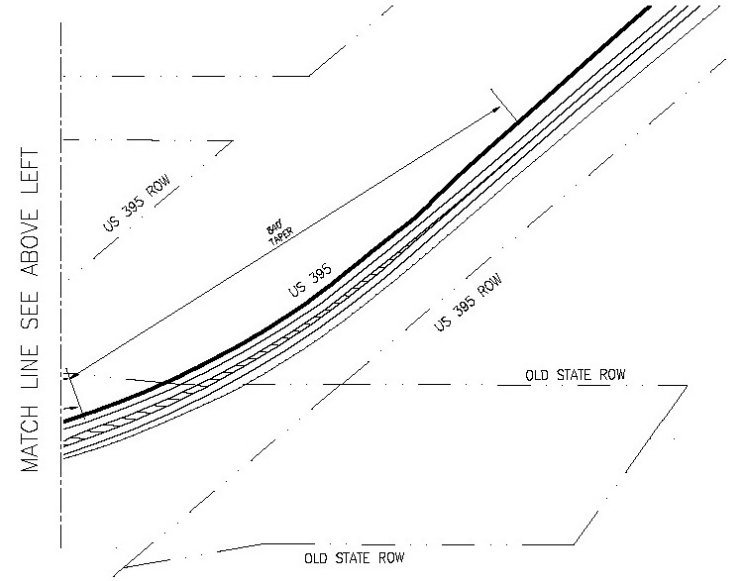
Date: 02/10/10
Sheet: 04 of 34

Traffic

Ridgecrest Solar Power Project

Solar Millennium LLC





IMPROVEMENTS

ADD:

NB LEFT TURN LANE ON US 395
SB LEFT TURN LANE ON US 395
SB RIGHT TURN LANE ON US 395
MERGE LANE OF EB CHINA LAKE BLVD
NEW FLASHING SIGNAL
ONE NEW STREET LIGHT
ONE STREETLIGHT TO BE RELOCATED

BASIS OF DESIGN
70 MPH DESIGN SPEED

DECELERATION LANE

ASSUMES 70 MPH DESIGN SPEED WITH 10 MPH REDUCTION PRIOR TO ENTERING TURN LANE (CALTRANS HIGHWAY DESIGN MANUAL, SECTION 405.2).

ASSUMES WIDENING OF HIGHWAY WEST OF CENTERLINE. AND S. CHINA LAKE BLVD. EAST OF CENTERLINE.

DESIGN STANDARD
CALTRANS HIGHWAY DESIGN MANUAL

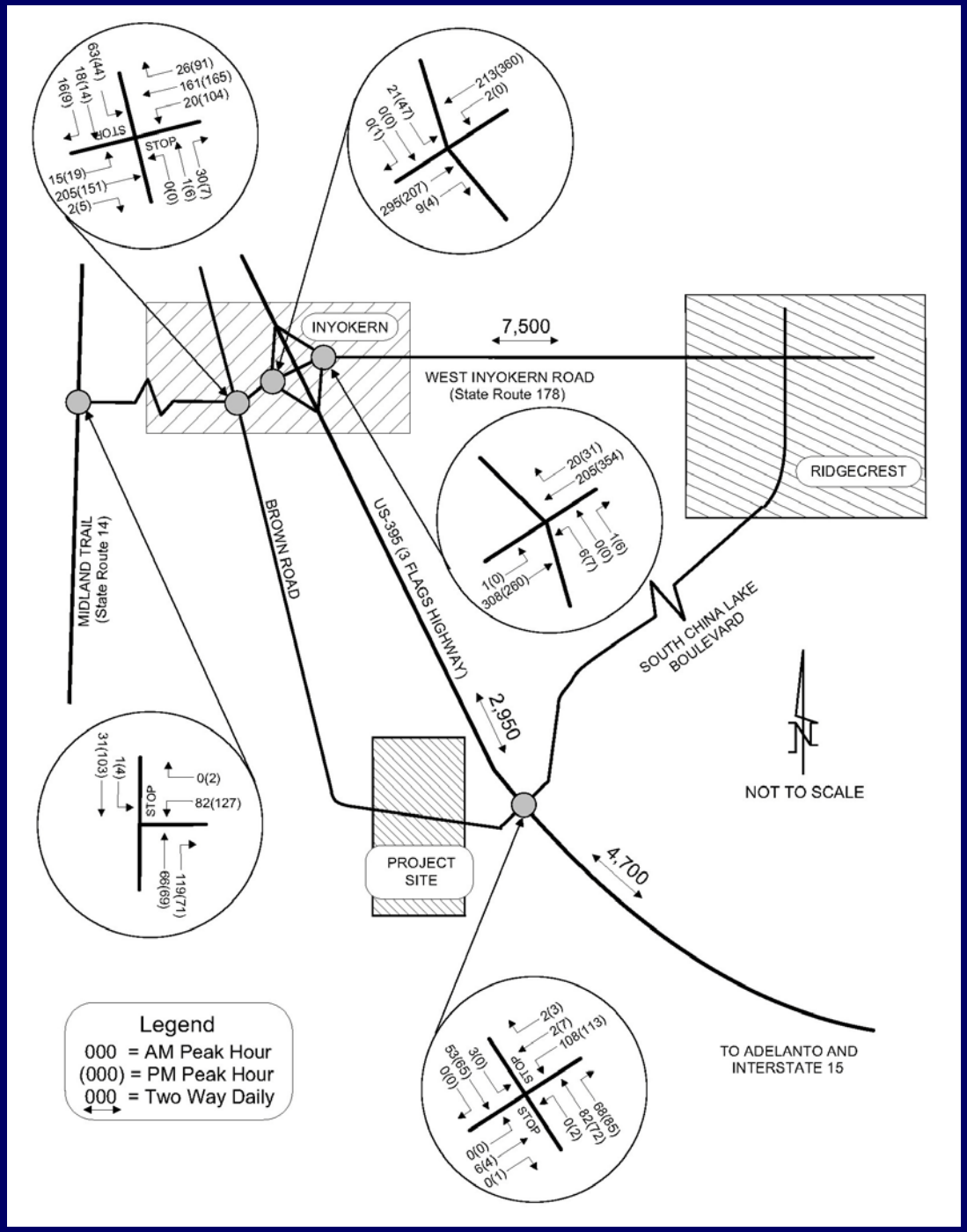
AECOM

Solar Millennium LLC

Ridgecrest Solar Power Project

Kern County, California

U.S. 395 INTERSECTION REDESIGN


INYOKERN
7,500
WEST INYOKERN ROAD
(State Route 178)
RIDGECREST
MIDLAND TRAIL
(State Route 14)
BROWN ROAD
US-395 (3 FLAGS HIGHWAY)
SOUTH CHINA LAKE
BOULEVARD
2,950
4,700
PROJECT
SITE
NOT TO SCALE
TO ADELANTO AND
INTERSTATE 15
STOP
63(44)
18(14)
16(9)
26(91)
161(165)
20(104)
15(19)
205(151)
2(5)
0(0)
1(6)
30(7)
21(47)
0(0)
9(1)
213(360)
2(0)
295(207)
9(4)
20(31)
205(354)
1(0)
308(260)
6(7)
0(0)
1(6)
31(103)
1(4)
0(2)
82(127)
66(69)
119(71)
2(3)
2(7)
108(113)
53(65)
0(0)
3(0)
88(85)
82(72)
0(2)
0(0)
6(4)
0(1)
Legend
000 = AM Peak Hour
(000) = PM Peak Hour
000 = Two Way Daily

Visual Resources

Ridgecrest Solar Power Project

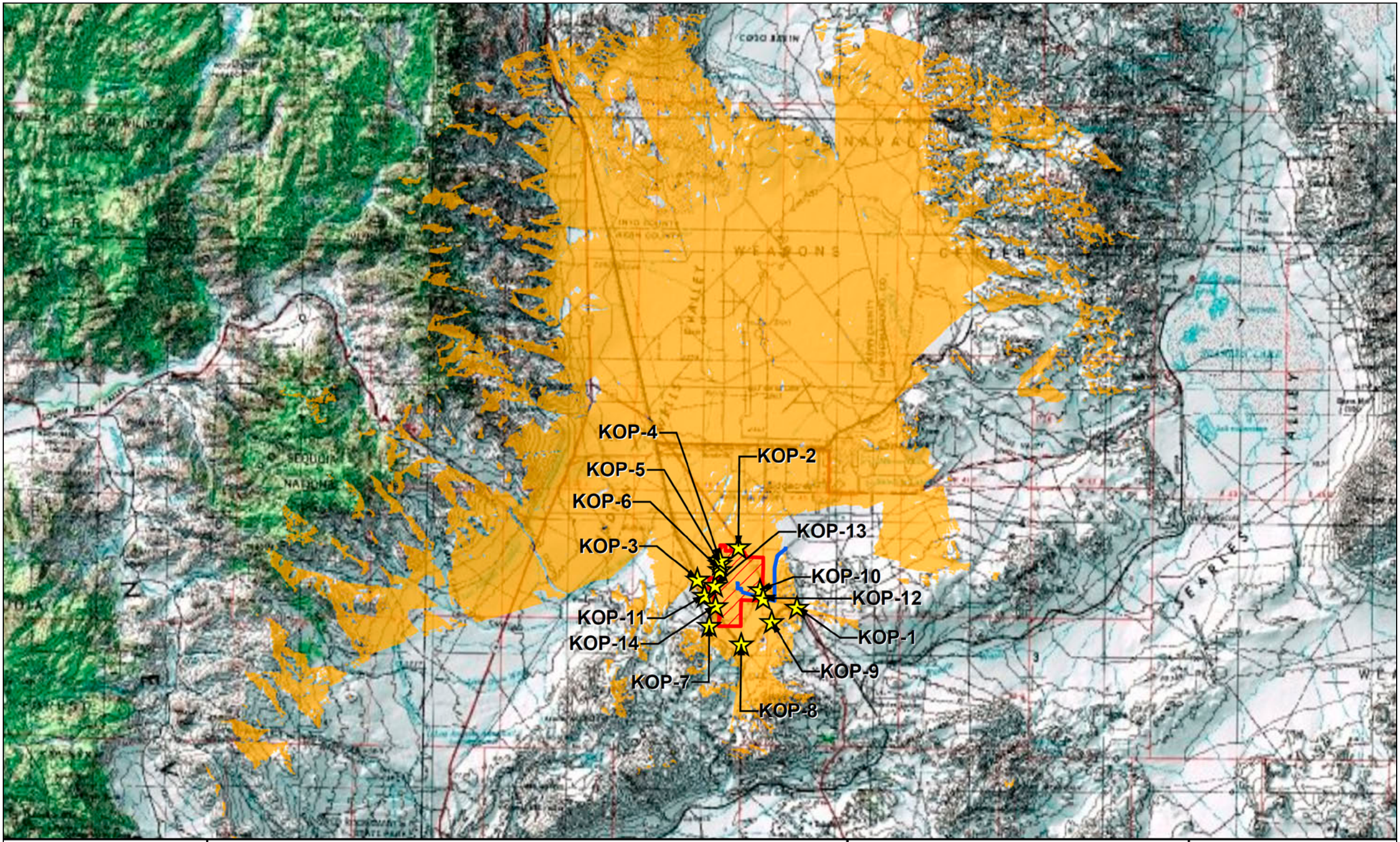
Solar Millennium LLC

Visual Resources

KOP Simulations

Ridgecrest Solar Power Project

Solar Millennium LLC



Map Location

Legend

- Project Right-of-Way
- Water Line
- Project Visible

1 inch equals 6.5 miles

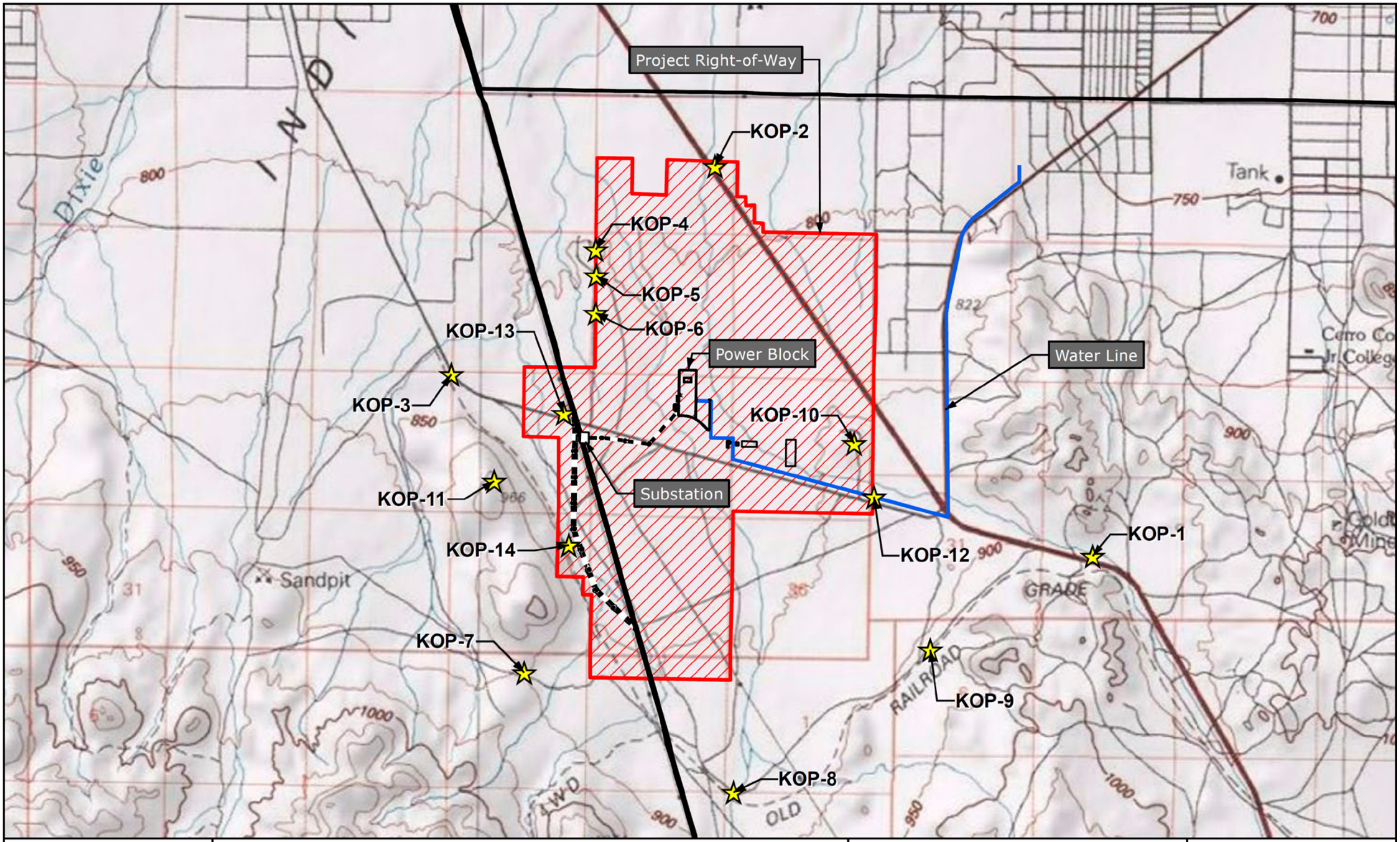
0 3.25 6.5 13 Miles

Ridgecrest Solar Power Project
Figure 5.15-1
Regional Visibility of the Plant Site

Solar Millennium

AECOM

Date: January 2010



Ridgecrest Solar Power Project
Figure 5.15-2
Project Site and
Key Observation Points

Solar Millennium

AECOM

Date: January 2010

Figure 5.15-5a – View from KOP-1 U.S. Highway 395 Northbound of RSPP Site-Existing Condition

Figure 5.15-5b – View from KOP-1 U.S. Highway 395 Northbound of RSPP Site-Simulated Condition

Figure 5.15-6a – View from KOP-2 U.S. Highway 395 Southbound of RSPP Site-Existing Condition

Figure 5.15-6b – View from KOP-2 U.S. Highway 395 Southbound of RSPP Site-Simulated Condition

Figure 5.15-7a – View from KOP-3 Brown Road of RSPP Site-Existing Condition

Figure 5.15-7b – View from KOP-3 Brown Road of RSPP Site-Simulated Condition

Figure 5.15-8a – View from KOP-4 Northern Residence on Calvert Blvd of RSPP Site-Existing Condition

Figure 5.15-8b – View from KOP-4 Northern Residence on Calvert Blvd of RSPP Site-Simulated Condition

Figure 5.15-9a – View from KOP-5 Middle Residence on Calvert Blvd of RSPP Site-Existing Condition

Figure 5.15-9b – View from KOP-5 Middle Residence on Calvert Blvd of RSPP Site-Simulated Condition

Figure 5.15-10a – View from KOP-6 Residence on Clone Avenue of RSPP Site-Existing Condition

Figure 5.15-10b – View from KOP-6 Residence on Clone Avenue of RSPP Site-Simulated Condition

Figure 5.15-11a – View from KOP-7 BLM Recreation Road of RSPP Site-Existing Condition

Figure 5.15-11b – View from KOP-7 BLM Recreation Road of RSPP Site-Simulated Condition

Figure 5.15-12a – View from KOP-8 Railroad Bed Bike Trail (South) of RSPP Site-Existing Condition

Figure 5.15-12b – View from KOP-8 Railroad Bed Bike Trail (South) of RSPP Site-Simulated Condition

Figure 5.15-13a – View from KOP-9 Railroad Bed Bike Trail (Southeast) of RSPP Site-Existing Condition

Figure 5.15-13b – View from KOP-9 Railroad Bed Bike Trail (Southeast) of RSPP Site-Simulated Condition

Figure 5.15-14a – View from KOP-10 BLM Recreation Area of RSPP Site-Existing Condition

Figure 5.15-14b – View from KOP-10 BLM Recreation Area of RSPP Site-Simulated Condition

Figure 5.15-15a – View from KOP-11 BLM Ridgeline (West) of RSPP Site-Existing Condition

Figure 5.15-15b – View from KOP-11 BLM Ridgeline (West) of RSPP Site-Simulated Condition

Figure 5.15-16a – View from KOP-12 Brown Road Westbound of RSPP Site-Existing Condition

Figure 5.15-16b – View from KOP-12 Brown Road Westbound of RSPP Site-Simulated Condition

Figure 5.15-17a – View from KOP-13 Brown Road Eastbound of RSPP Site-Existing Condition

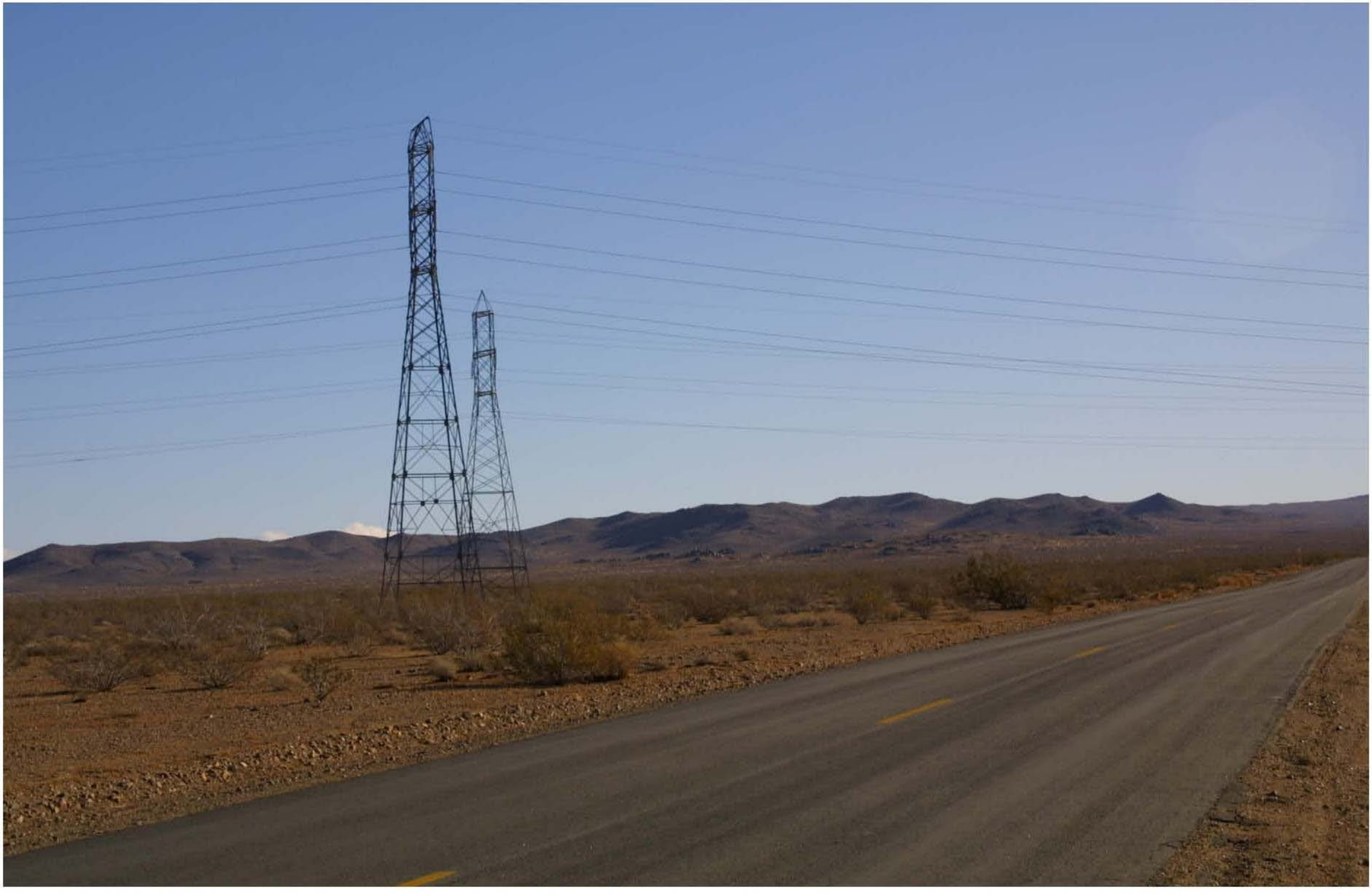


Figure 5.15-17b – View from KOP-13 Brown Road Eastbound of RSPP Site-Simulated Condition

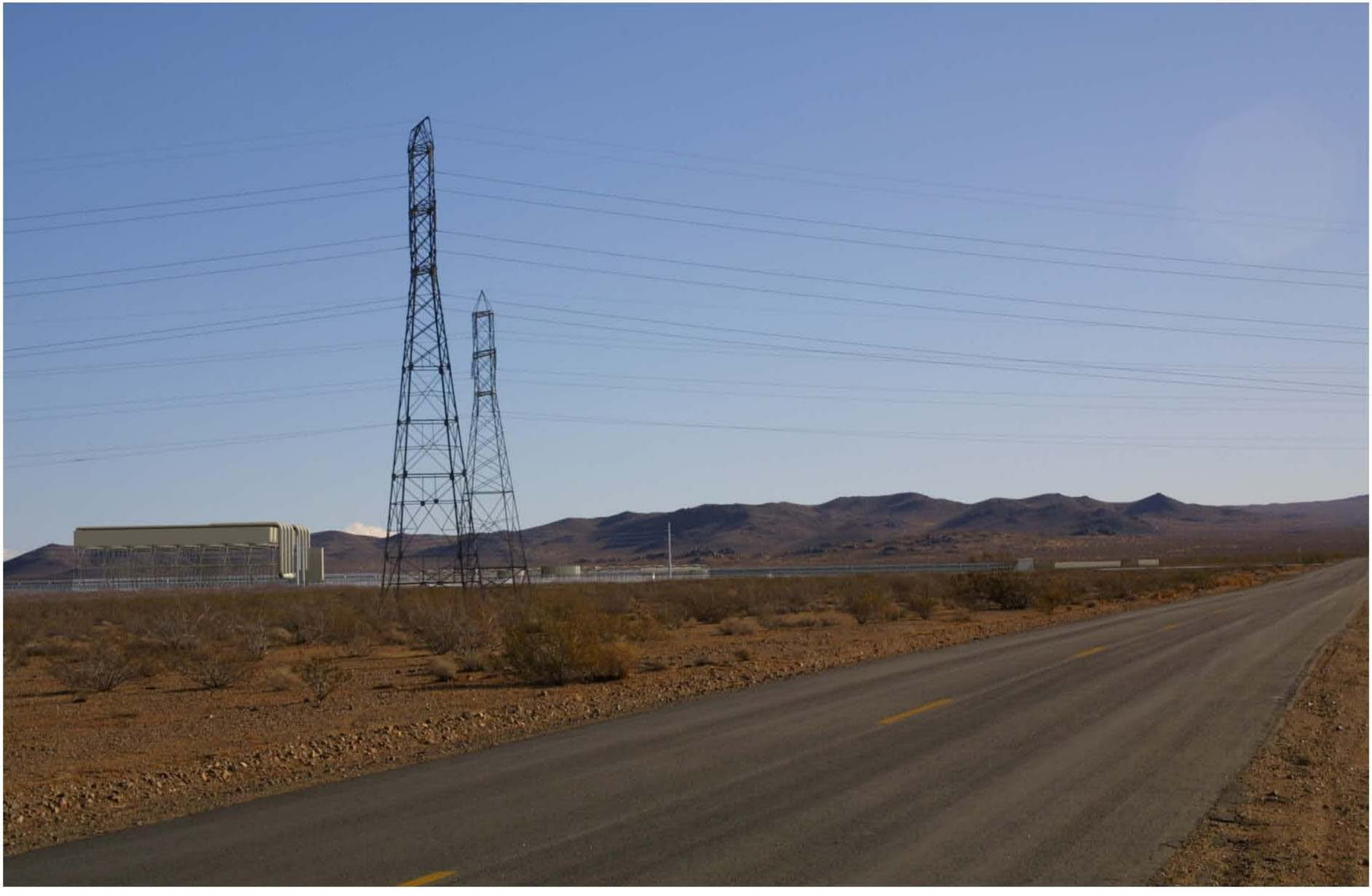


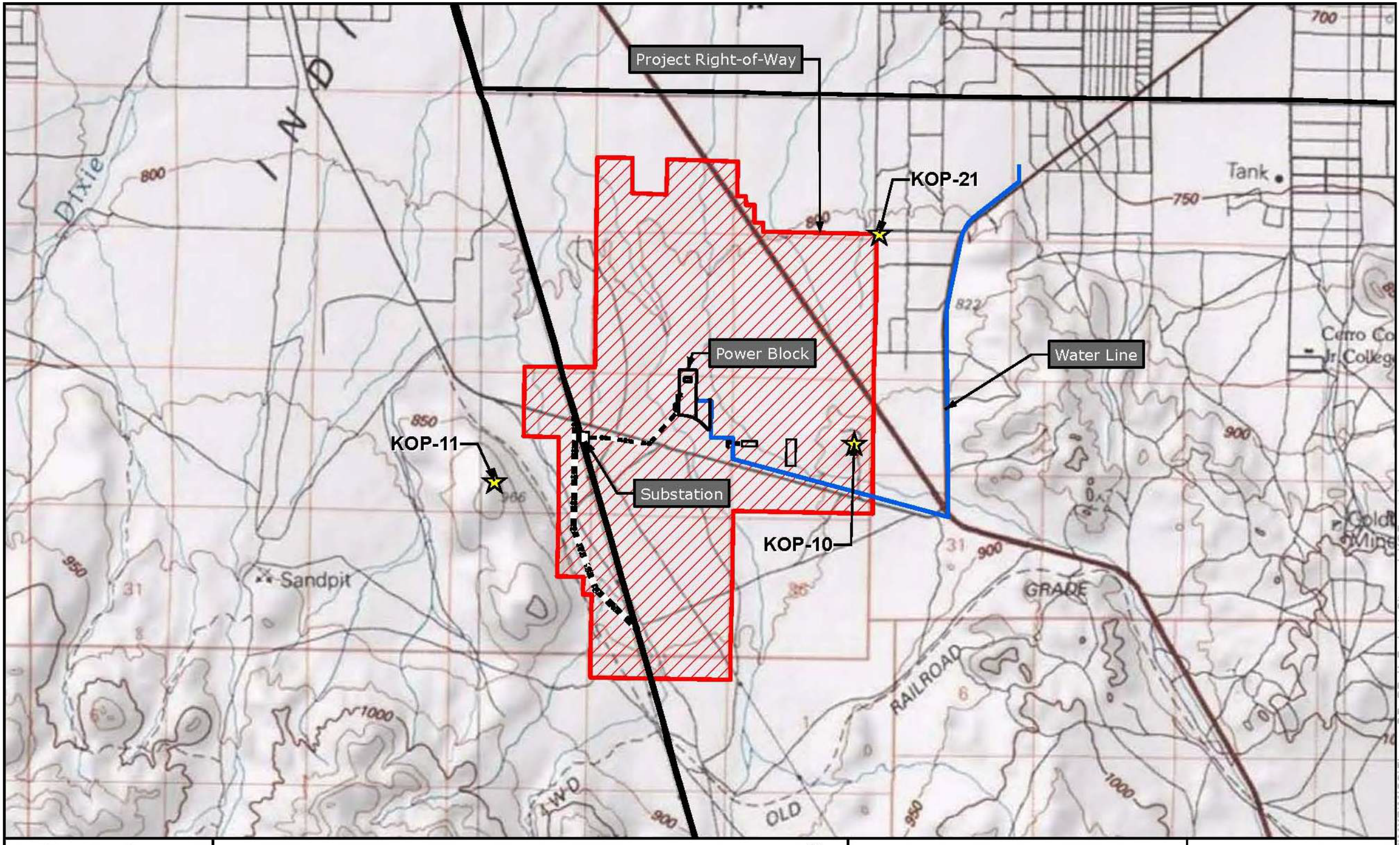
Figure 5.15-18a – View from KOP-14 Railroad Bed Bike Trail (West) of RSPP Site-Existing Condition

Figure 5.15-18b – View from KOP-14 Railroad Bed Bike Trail (West) of RSPP Site-Simulated Condition

Night Simulations

Ridgecrest Solar Power Project

Solar Millennium LLC



Ridgecrest Solar Power Project
Figure B&R DR-1j
Project Site and
Key Observation Points

Solar Millennium

AECOM

Date: April 2010

Figure B&R No.2 DR-1a View from KOP-10 Rocky Recreational Site near Intersection of 395 and Brown Road Night Site-Existing Condition

Figure B&R No.2 DR-1b View from KOP-10 Rocky Recreational Site near Intersection of 395 and Brown Road Night Simulated Condition

Figure B&R No.2 DR-1c View from KOP-10 Rocky Recreational Site near Intersection of 395 and Brown Road Night Simulated Condition

Figure B&R No.2 DR-1d View from KOP-11 Elevated Ridgeline on BLM land west of RSPP Site-Existing Condition

Figure B&R No.2 DR-1e View from KOP-11 Elevated Ridgeline on BLM land west of RSPP Simulated Condition

Figure B&R No.2 DR-1f View from KOP-11 Elevated Ridgeline on BLM land west of RSPP Simulated Condition

Figure B&R No.2 DR-1g View from KOP-21 Residential Location on the Elevated Ridge Northeast of RSPP Site-Existing Condition

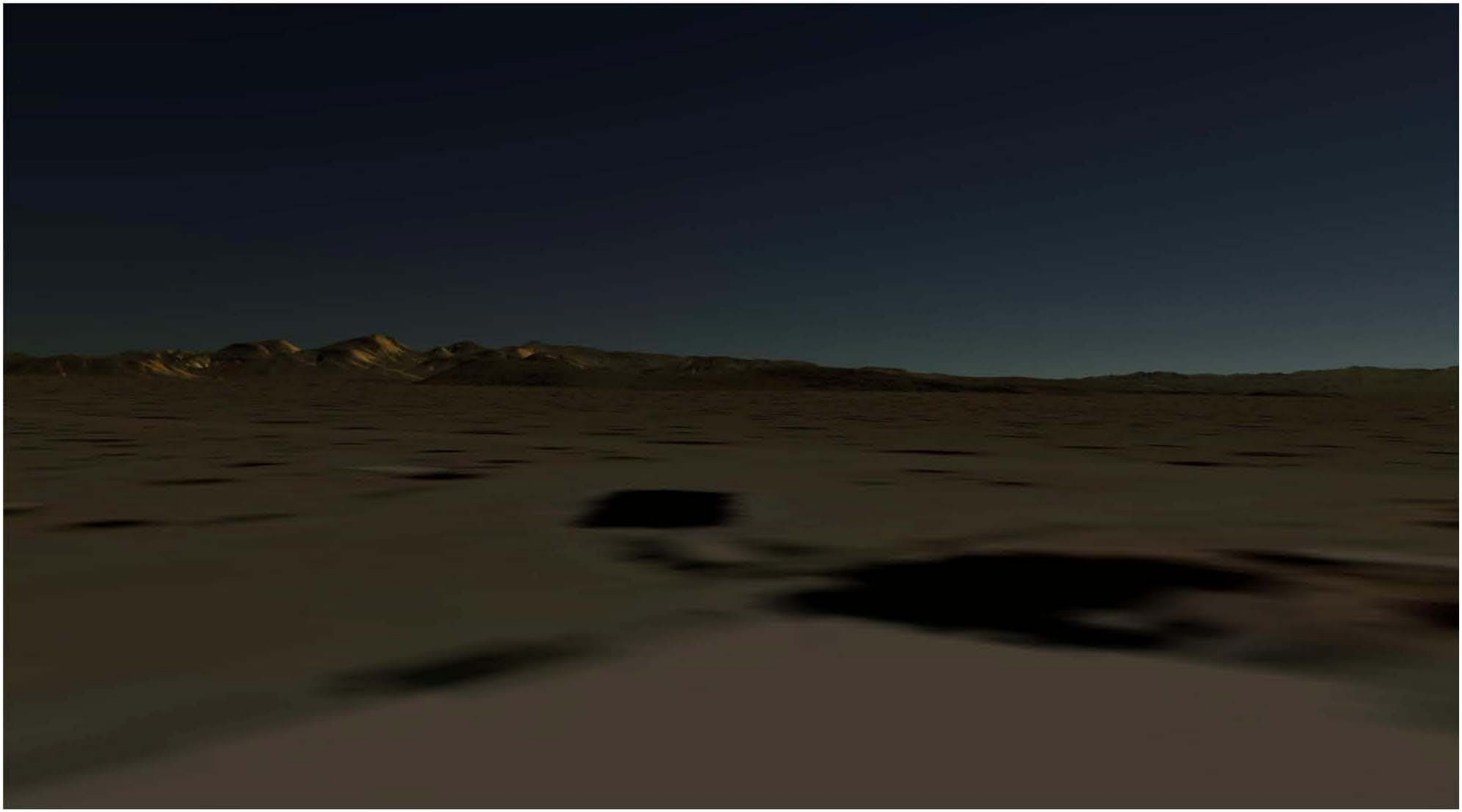


Figure B&R No.2 DR-1h View from KOP-21 Residential Location on the Elevated Ridge Northeast of RSPP Night Existing Condition

Figure B&R No.2 DR-1i View from KOP-21 Residential Location on the Elevated Ridge Northeast of RSPP Simulated Condition

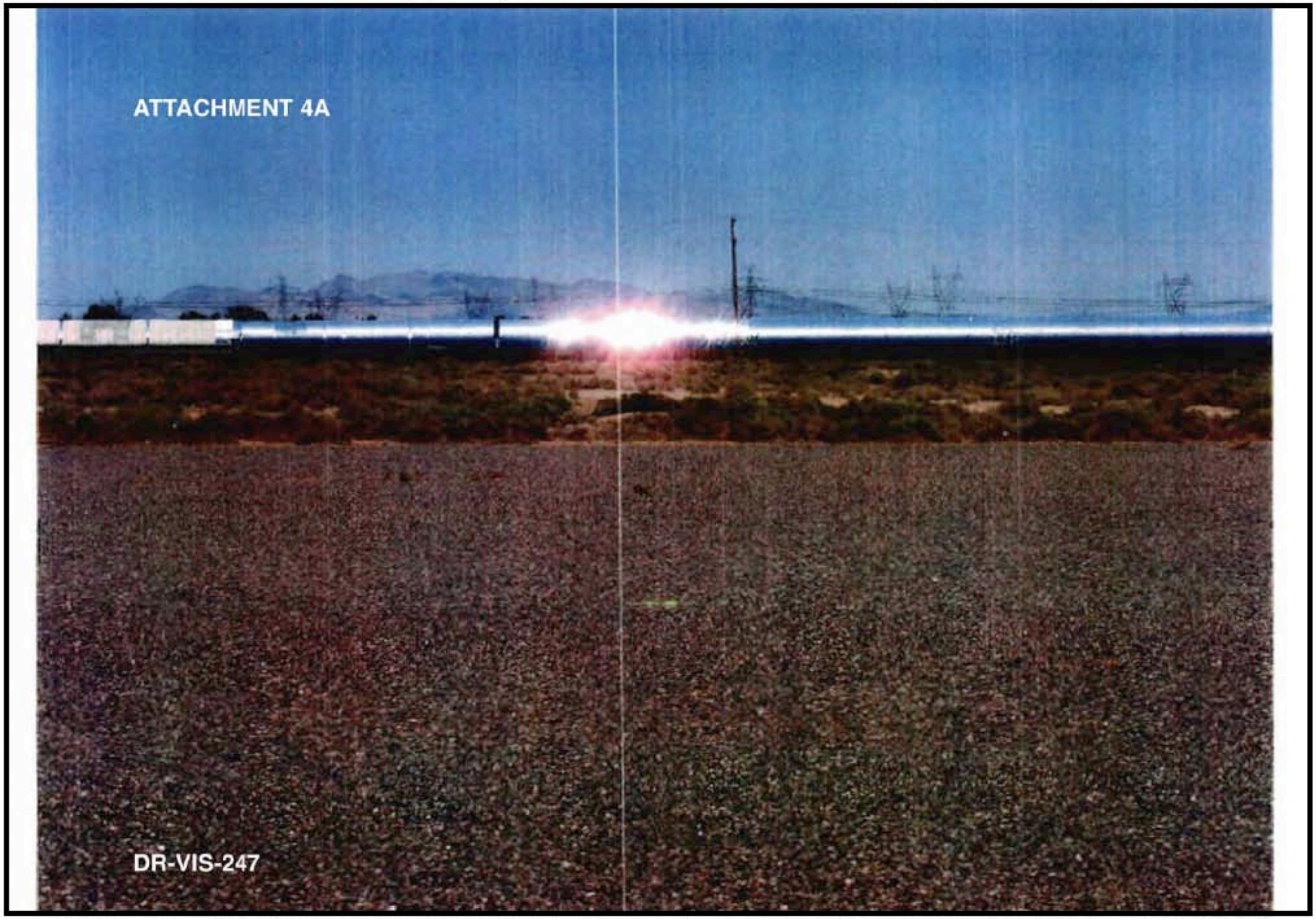
Kramer Junction

Ridgecrest Solar Power Project

Solar Millennium LLC

ATTACHMENT 4A

Blythe Solar Power Project - Example of Glint off of the Kramer Juction SEGS Project (Ground Level View)



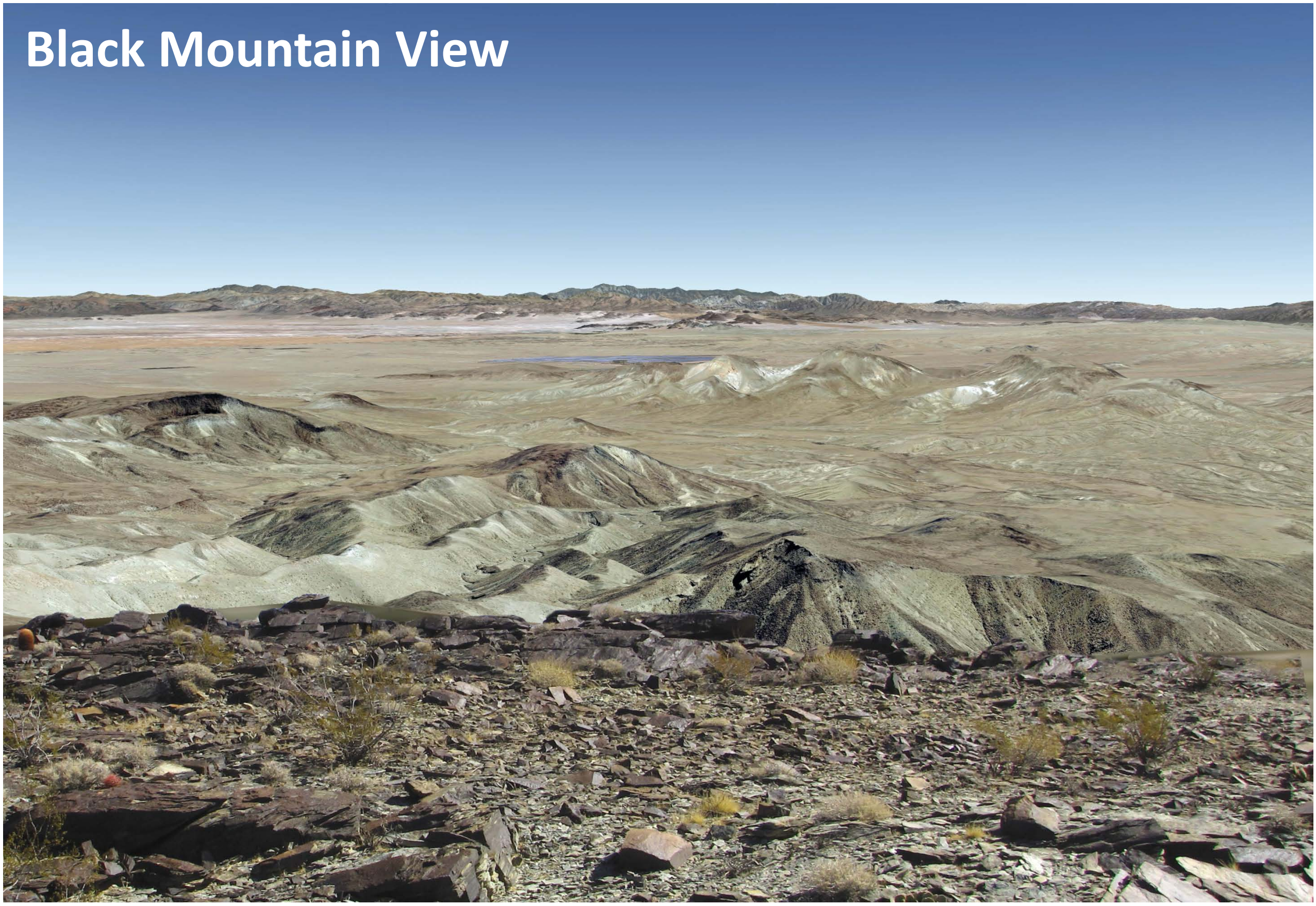
CALIFORNIA ENERGY COMMISSION - SITING, TRANSMISSION AND ENVIRONMENTAL PROTECTION DIVISION, MARCH 2010

SOURCE: Michael Clayton & Associates

Kramer Junction

Photo by AECOM

Black Mountain View



California Energy Commission Workshop

Water Offset Mitigation Plan

Ridgecrest Solar Power Project

April 23, 2009

Solar Millennium LLC

Project Description

Proposed Water Use

- Construction – 1,500 af over construction period
  - Construction period: 2.33 years (28 months)
  - 450 acre-feet (af) of groundwater per year
- Operational – 150 af per year (afy)
  - Project Life: 30 years
  - Total volume of 4,500 af over 30 year life of project.
- Indian Wells Valley Water District (IWVWD) will supply water service to the Project.

Solar Millennium LLC

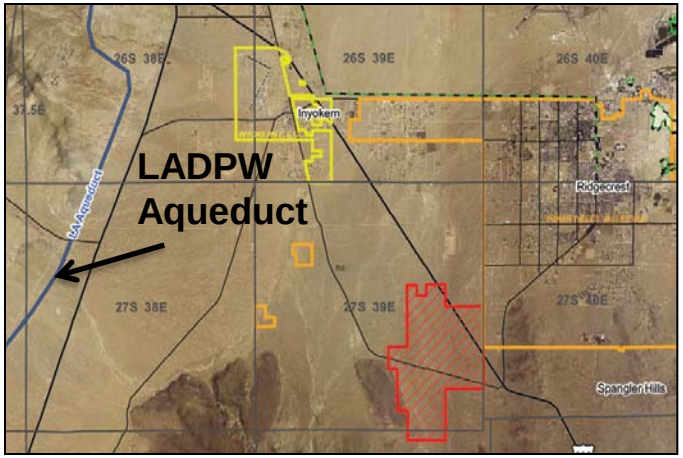
Proposed Water Mitigation Plan

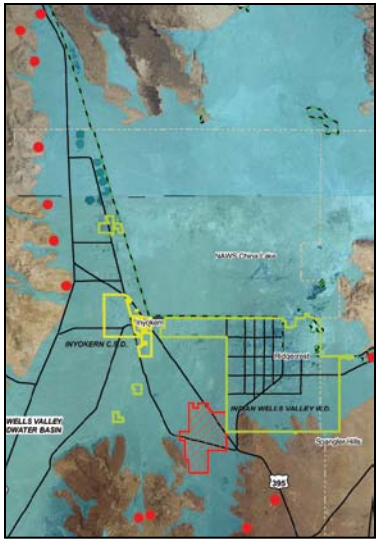
- **Offset Volume Required Per Year**
  - 215 afy
  - Based on amortization of construction water volume over the 30 year life of Project
- **Approach to Identification of Feasible Options**
  - Identification of Potential Options
  - Feasibility Assessment
  - Implementability

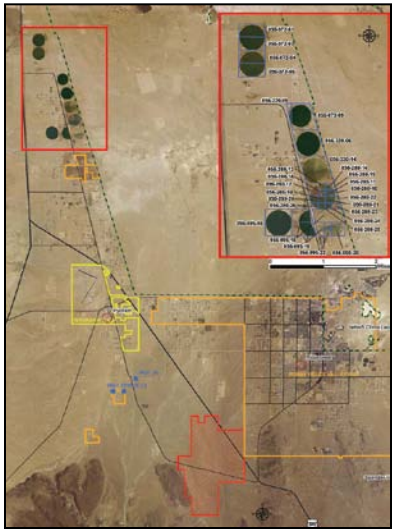
Solar Millennium LLC

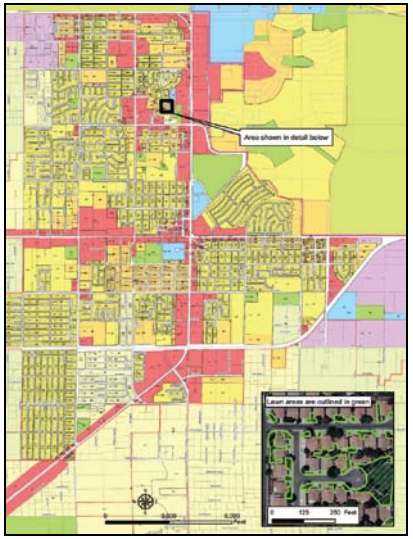
Potential Options Considered

- Low-Flow Irrigation
- Artificial Turf Replacement
- Tamarisk Removal
- Agricultural Land Fallowing
- Xeriscaping (Cash for Grass)
- Construction Water from LADPW Aqueduct









Solar Millennium LLC

Feasibility of Water Mitigation Options

Criteria Used in the Feasibility Study

- Could the option provide the full offset volume of water?
- Could the option be implemented at the start of construction?
- Could the option upon implementation offset the full volume of Project water use or would there be a phase-in period such that only after a period of time the full offset volume would be realized?

Solar Millennium LLC

Summary of Feasibility Study

Offset Option	Potential Water Savings	Capable of Fully Meeting Project Water Supply (215 afy)	Option Implementable at the Start of Construction	Potential Offset Option
Low-Flow Irrigation	Minimal	No	Yes	Option retained for future consideration. Possibly implemented through "cash for grass", as it is a subset of that program.
Artificial Turf	~12.5 afy	No	No	Option not being retained for consideration.
Tamarisk Removal	0.28 afy per tree	No	Yes	Option retained for future consideration as needed to supplement primary options.
LADPW Aqueduct	1,500 afy	Yes	Uncertain	**LADPW will not allow.**
Fallowing of Ag Land	215 afy	Yes	Yes	**Option included in Plan as a primary option**
Xeriscaping (Cash for Grass)	215 afy	Yes	Yes	**Option included in Plan as a primary option.**

Solar Millennium LLC

Feasibility Study

Options for Further Evaluation

- Agricultural Land Fallowing
- Xeriscaping (Cash for Grass)

Conclusions

- Options being carried forward have the potential to completely offset the water supply needed by the Project.
- Feasible options can be implemented in a reasonable timeframe following initiation of construction activities.
- Low-flow irrigation, and tamarisk removal suitable for only a portion of the required offset. (These options may be considered in the future to supplement primary options.)
- LADPW will not allow diversion from the aqueduct for construction water.
- Artificial turf not considered feasible.

Agricultural Fallowing Option

Available Agricultural Land for Potential Fallowing

- More than 970 acres of farmland north of Inyokern (12 to 16 miles north of Project)
- Program would focus on alfalfa crops grown by Brown Road Farming

Acreage Need to Meet Offset Volume

- 42 acres
  - Assumes water rate of 5.1 afy/acre to cultivate alfalfa.
  - 42 acres = 4% of the more that 970 acres of alfalfa grown in Basin.

Approach to Implementation

- Meet with landowner(s) to determine willingness to participate in program.
- Establish “water factor per acre” to determine acreage of land need to obtain offset volume.
- Develop contracts/lease agreements with property owner.
- IWVWD would administer the program.

Solar Millennium LLC

Xeriscaping

- **Approach to Estimating Volume**
  - Assuming 56 gallons per square foot can be saved by conversion (SNWA, 2005).
  - An estimated 29 acres of turf will need to be converted to obtain 215 afy of water offsets.
  - Assuming 2,000 square feet per residence, about 625 homes would need to participate in program.
  - Digital aerial photos used to estimate natural turf lawns within the City of Ridgecrest.
- **Available Residential Acreage – 347 acres**
- **Potential Commercial Acreage – 138 acres**
- **Approach to Implementation**
  - Program will be modeled after the AWAC Cash for Grass Program.
  - Project would offer financial incentives to the property owners within the City to convert their landscape.
  - The administration and monitoring of the implementation would be performed by the IWV Water District.
  - Schedule for implementation is planned following receipt of license from the CEC and coincident with the initiation of Project construction.

Conclusions

- **Options Being Pursued**
  - Agricultural Land Fallowing
  - Xeriscaping (Cash for Grass)
- **Options Being Retained for Future Consideration or to Supplement**
  - Low-Flow Irrigation
  - Tamarisk Removal

Solar Millennium LLC

DESERT TORTOISE

RIDGECREST SOLAR POWER PROJECT

Solar Millennium LLC

Available Desert Tortoise Density Estimates on Localized Sites in The Western Mojave Desert

Sites were generally small, 1 km^2 or 1 mi^2, unless noted. All sites were expected to be occupied by desert tortoises based on habitat

Site		#Adults/km^2		Time or Time Span for Estimates[1]	Reference
		Time 1	Time 2		
USGS Plots	DTNA Interior Plot	92.0	5.0	1979, **1982**, 1988, 1992 **1996,** 2002	BLM (2005), Berry (2003)
	DTNA Interpretive Center	69.9	18.1	**1979**, 1985, 1989, **1993,** 2002	BLM (2005), Berry (2003)
	Fremont Valley	44.8	12.7	**1981**, 1987, **1991**, 2001, 2007	BLM (2005), Jones (2008)
	Fremont Peak	27.0	1.9	**1980,** 1985, 1989, **1993**, 2001, 2007	BLM (2005), Jones (2008)
	Kramer Hills	44.0	13.1	1980, **1982**, 1987, 1991, **1995**, 2007	BLM (2005), Jones (2008)
	Lucerne Valley	35.9	25.1	**1980**, 1986, 1990, **1994**, 2005	BLM (2005), Jones (2008)
	Johnson Valley	26.6	6.2	**1980**, 1986, 1990, **1994**, 2008	BLM (2005)
	Stoddard Valley	47.9		1981, **1987**, 1991	BLM (2005)
Fort Irwin Expansion Project	MT-1	28.0		1999	Karl (1999)
	NL-1	10.0		1999	Karl (1999)
	Plot 1	14.0		2001	Karl (2002a)
	Plot 2	5.0		2001	Karl (2002a)
	Plot 3	0+		2001	Karl (2002a)
	Plot 4	7.7		2001	Karl (2002a)
	Plot 5	7.0		2001	Karl (2002a)
	Plot 6	5.0		2001	Karl (2002a)
	Plot 8	10.8-12.0		2001, 2002	Karl (2002a, b)
	Plot 9	13.2-13.9		2002	Karl (2002b)

(continued)

1. The years listed are all the years that each site was studied. The years in **bold** type are those presented in the previous columns of tortoise density, with the (a) first bold-font year in the list representing the year with the highest historic density and the second bold-font year representing the most recent available data. Note that while the sites may have been surveyed in years subsequent to the most recent year in bold type, density data for adult tortoises are not available.

Available Desert Tortoise Density Estimates on Localized Sites in The Western Mojave Desert (continued)

Sites were generally small, 1 km^2 or 1 mi^2, unless noted. All sites were expected to be occupied by desert tortoises based on habitat

Site		#Adults/km^2		Time or Time Span for Estimates[1]	Reference
		Time 1	Time 2		
MCAGCC Land Acquisition Project	Johnson Valley Plot 1	7.8		2009	B. Henen, NREA, pers. comm.
	Johnson Valley Plot 2	6.0		2009	B. Henen, NREA, pers. comm.
	Johnson Valley Plot 3	12.5		2009	B. Henen, NREA, pers. comm.
	Twentynine Palms Plot 4	10.6		2009	B. Henen, NREA, pers. comm.
	Cadiz Valley Plot 5	5.0		2009	B. Henen, NREA, pers. comm.
	Cadiz Valley Plot 6	0.0		2009	B. Henen, NREA, pers. comm.
	Johnson Valley Plot 7	4.0		2009	B. Henen, NREA, pers. comm.
	Emerson Lake	3.0		2009	B. Henen, NREA, pers. comm.
	Acorn	10.6		2009	B. Henen, NREA, pers. comm.
Larger Sites	Fort Irwin: Southern Expansion Area Clearance – 32 km^2	7.2		2006-7	A. Walde, pers. comm.
	Hyundai Motor America Mojave Test Track – 18.3 km^2	1.5		2004	Karl (2004b)

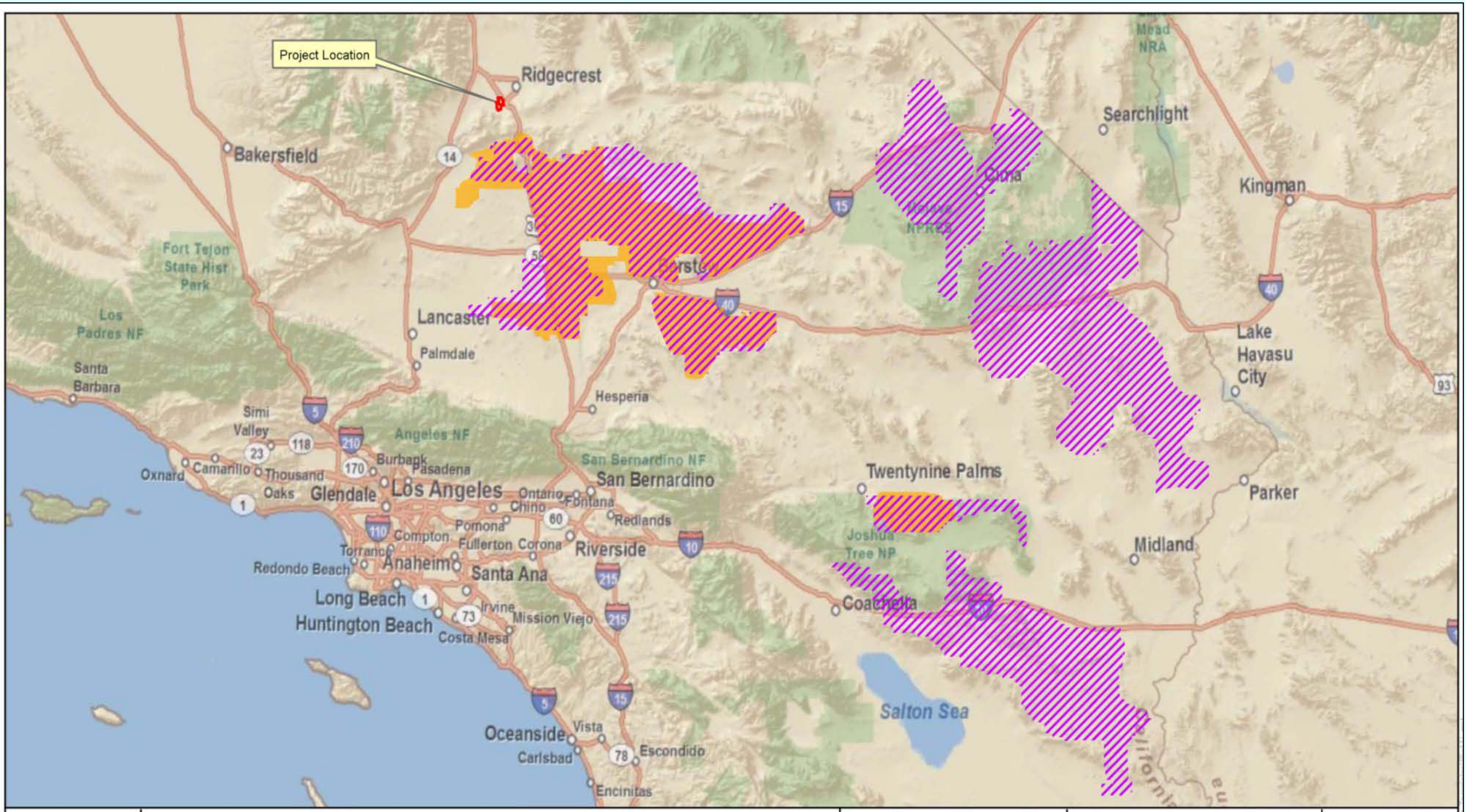
1. The years listed are all the years that each site was studied. The years in **bold** type are those presented in the previous columns of tortoise density, with the (a) first bold-font year in the list representing the year with the highest historic density and the second bold-font year representing the most recent available data. Note that while the sites may have been surveyed in years subsequent to the most recent year in bold type, density data for adult tortoises are not available.

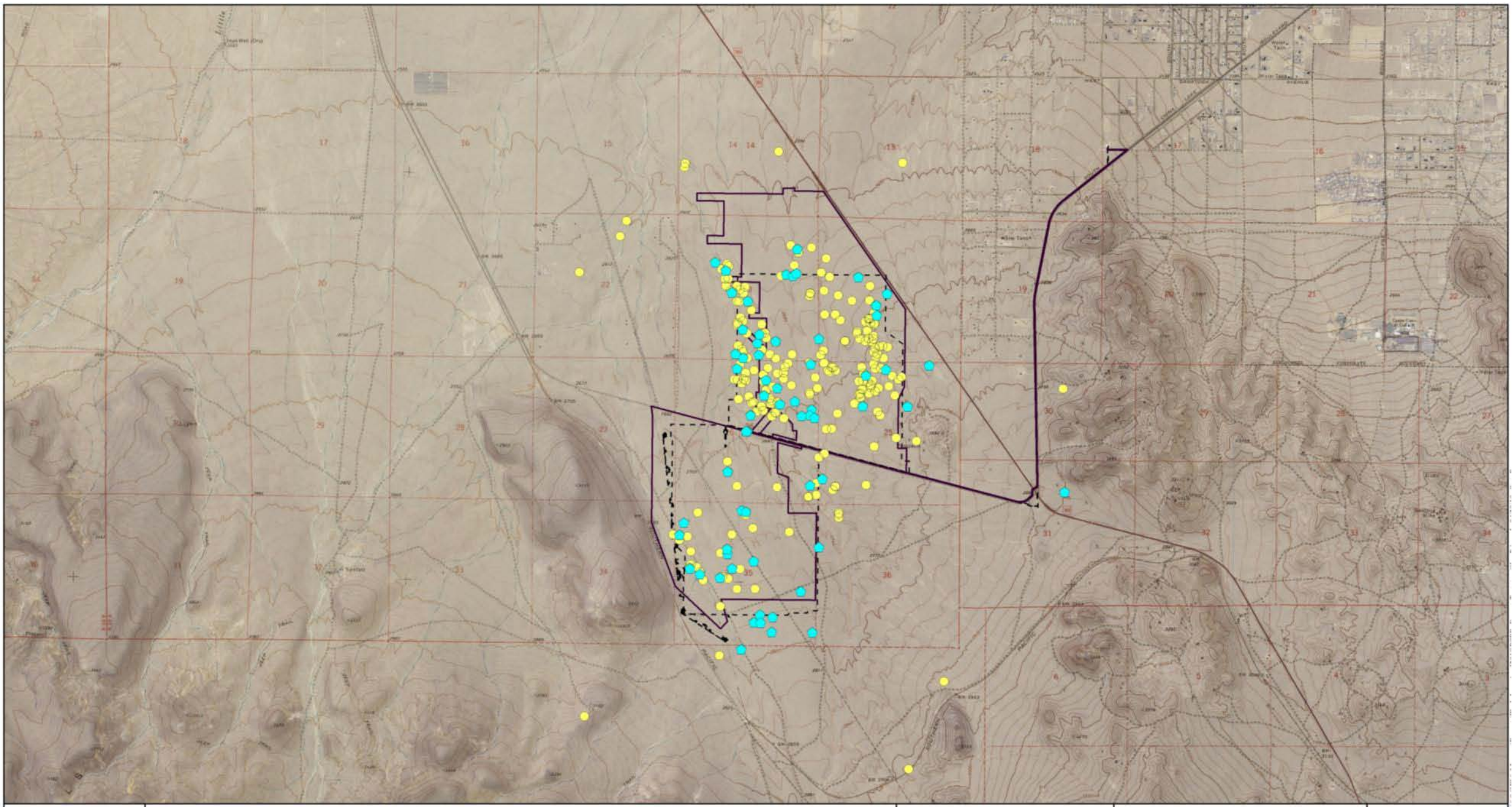
Broad sampling strata used to estimate tortoise density in the federally listed portion of the species range

All but the last sampling stratum are USFWS LDS sampling strata.
Major strata are in bold font, followed by monitoring strata within each major stratum.
Size of each stratum is shown.

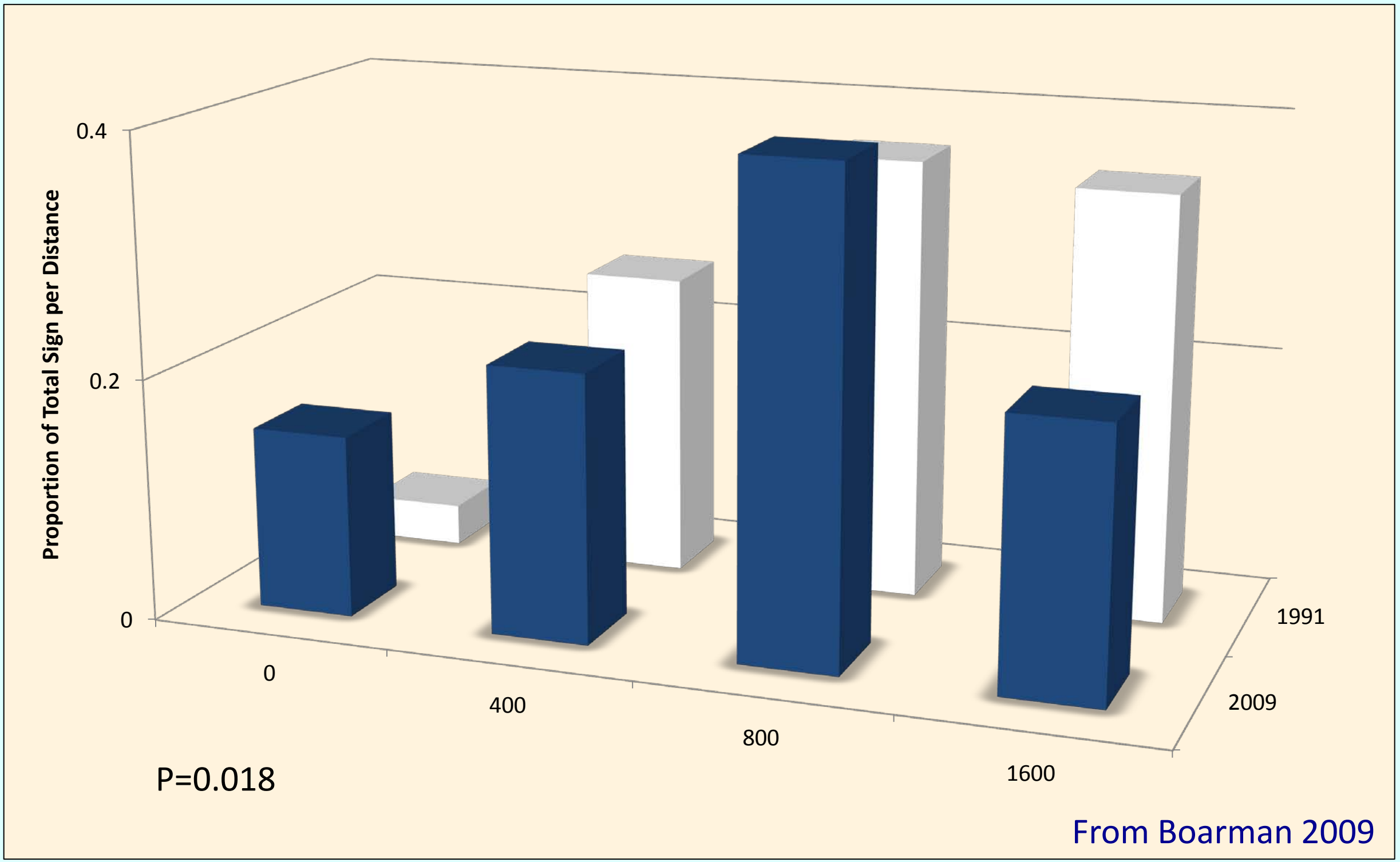
Sampling Stratum	#Adults/ km²	Sampling Unit Size (km²)	Date	Source
West Mojave RU[1]	**4.7**	**9298.0**	2007	USFWS (2009b)
5 sampling strata within the RU used for calculating RU values	2.4-8.2	608-3447	2007	USFWS (2009b)
Eastern Mojave RU	**5.8**	**6681.0**	2007	USFWS (2009b)
3 sampling strata within the RU used for calculating RU values	4.2-6.6	1862-2567		
Northeastern RU	**1.7**	**4917.0**	2007	USFWS (2009b)
4 sampling strata within the RU used for calculating RU values	1.2-3.3	968.0		
Eastern Colorado RU	**5.0**	**4263.0**	2007	USFWS (2009b)
3 sampling strata within the RU used for calculating RU values	4.5-7.1	755-3509		
Northern Colorado	**4.6**	**4038.0**	2007	USFWS (2009b)
Upper Virgin River	**14.9**	**114.0**	2007	McLuckie et al (2008) in USFWS (2009)
Fort Irwin: Southern Expansion Area	**6.8**	**32**	2001-2	(Karl 2002)
32, one km2 sampling units	>0-25.1	1		

1. RU = Recovery Unit


Project Location
Ridgecrest
Bakersfield
Searchlight
Mead NRA
Kingman
Fort Tejon State Hist Park
Los Padres NF
Lancaster
Palmdale
Hesperia
Lake Havasu City
Santa Barbara
Simi Valley
Angeles NF
San Bernardino NF
San Bernardino
Twentynine Palms
Parker
Oxnard
Camarillo
Thousand Oaks
Glendale
Los Angeles
Ontario
Chino
Fontana
Redlands
Pomona
Compton
Fullerton
Corona
Riverside
Joshua Tree NP
Midland
Torrance
Redondo Beach
Anaheim
Santa Ana
Long Beach
Irvine
Mission Viejo
Huntington Beach
Costa Mesa
Coachella
Salton Sea
Oceanside
Vista
Carlsbad
Escondido
Encinitas
Map Location
OR
ID
NV
UT
CA
AZ
Legend
Project Area
Desert Tortoise Critical Habitat (USFWS)
WEMO DWMA
Source: ESRI; USFWS; BLM; AECOM
N
W
E
S
1 inch = 24 miles
0
24
48
Miles
Ridgecrest Solar Power Project
Regional and Local DT Connectivity
Date: January 2010


Map Location
OR
ID
NV
UT
CA
AZ
Legend
Reconfigured Project Disturbance Area
Previous Site Configuration
Desert Tortoise Observations
Tortoise
Burrow
Source: NAIP 2005; AECOM 2010; CNDDB 2009
N
W
E
S
1 inch = 3,500 feet
0
3,500
7,000
Feet
Ridgecrest Solar Power Project
2009 Desert Tortoise Observations
AECOM
Date: May 2010

Proportion of Sign Increased Near Fenced Highway

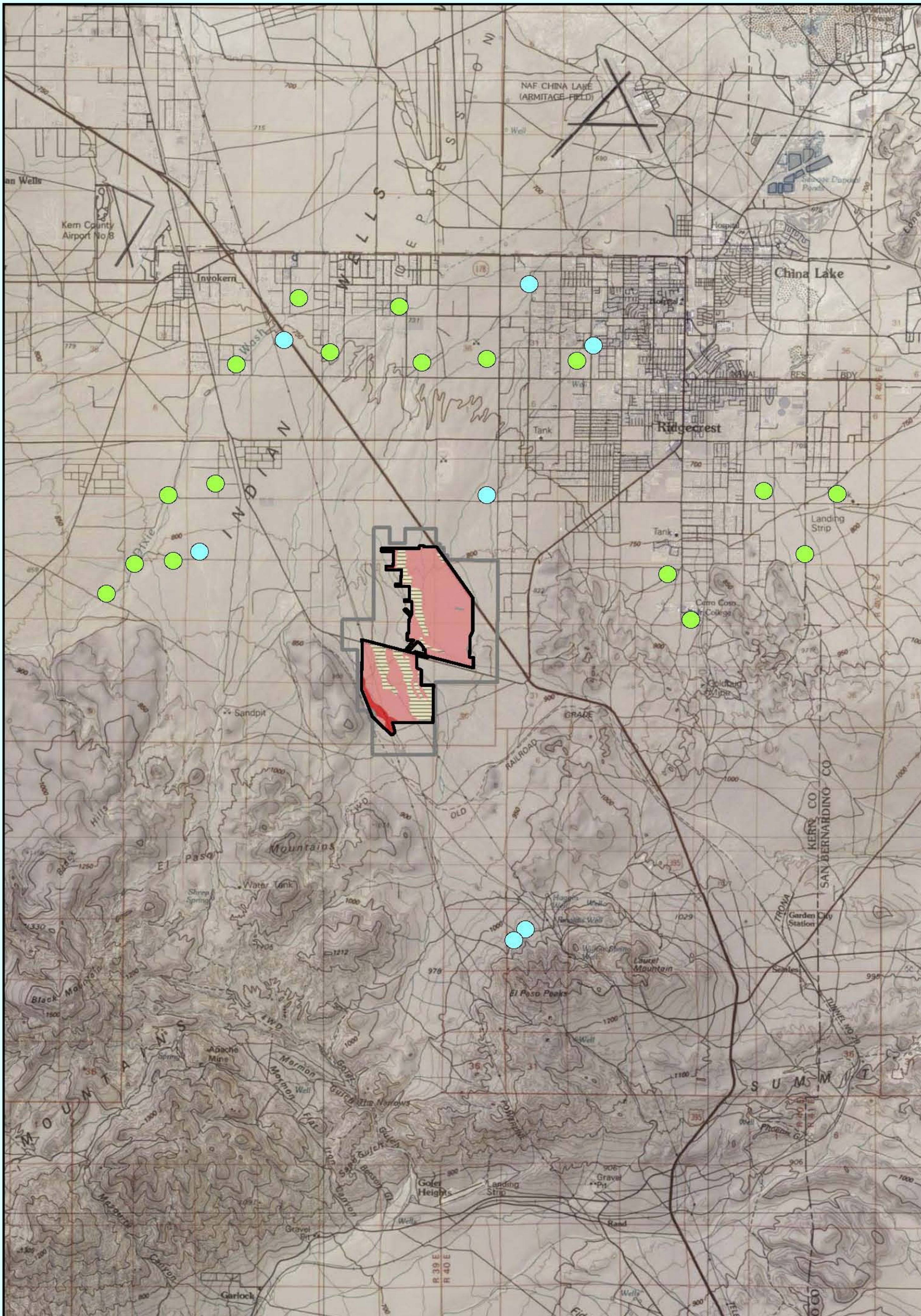


From Boarman 2009

Mohave Ground Squirrel

Ridgecrest Solar Power Project

Solar Millennium LLC



Map Location

Legend

MGS Occurance

- Prior to 1988
- 1988 to Present
- Disturbance Area

Habitat Quality

Mohave Ground Squirrel

- High - Desert Washes and Adjacent High Diversity Creosote Bush
- Medium - Low Diversity Creosote Bush
- Low - Monotypic Creosote Bush
- Unsuitable - Rocky Terrain
- ROW

1 inch = 2 miles

0 1.5 3 Miles

Ridgecrest Solar Power Project
Responses to 12/22/09
Data Request

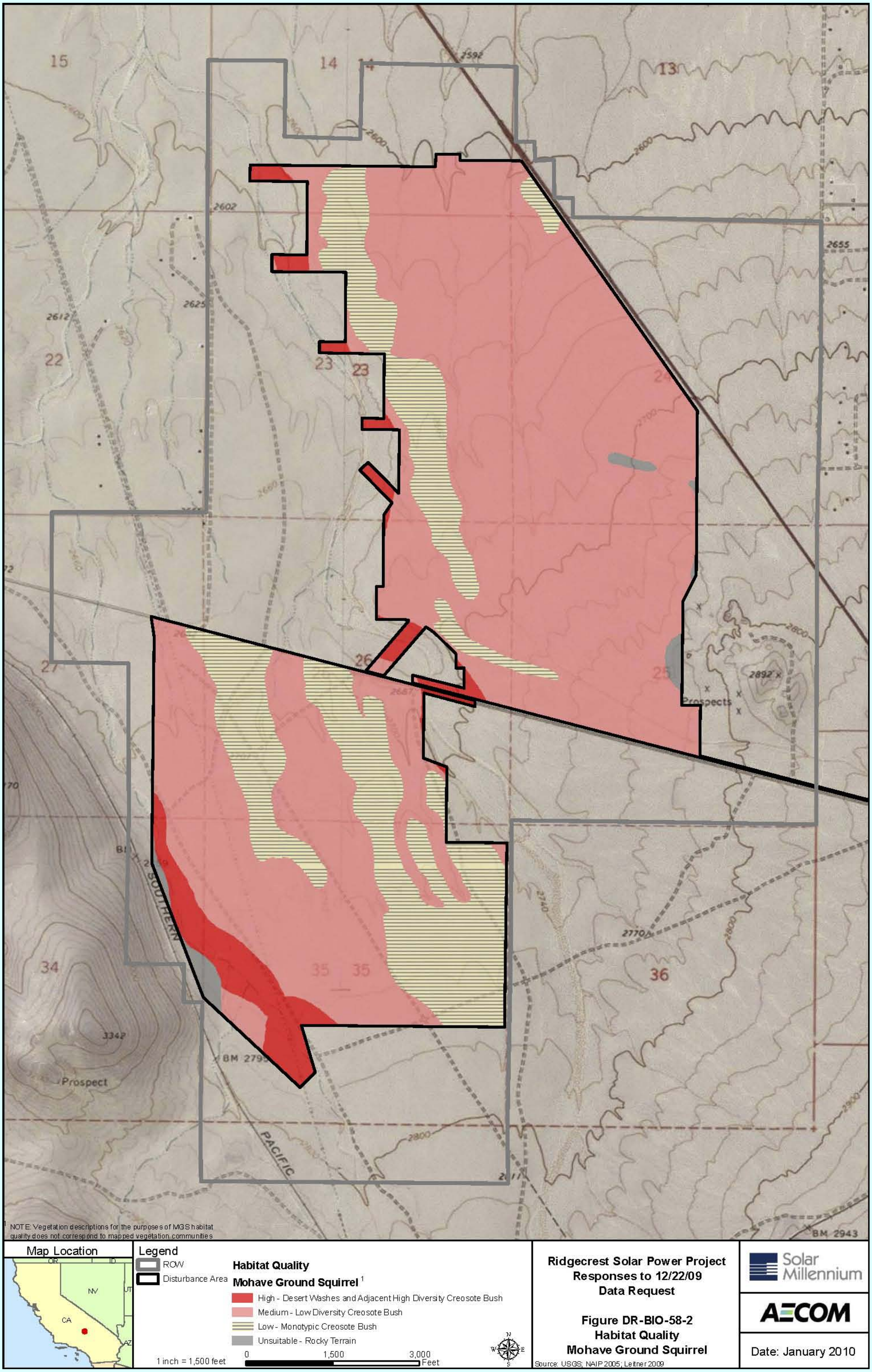
Figure DR-BIO-58-1
Overview Mohave Ground Squirrel
Records within 5 Miles of ROW

Source: USGS; NAIP 2005; CNDDB; Leitner 2009

Solar Millennium

AECOM

Date: January 2010



15
14
13
22
23
24
27
26
25
34
35
36
2592
2600
2602
2625
2612
2655
2700
2680
2687
2800
2892
Prospects
BM 2795
Prospect
3342
SOUTHERN
PACIFIC
2740
2770
2900
2811
BM 2943
¹ NOTE: Vegetation descriptions for the purposes of MGS habitat quality does not correspond to mapped vegetation communities
Map Location
OR
ID
NV
UT
CA
AZ
Legend
ROW
Disturbance Area
Habitat Quality
Mohave Ground Squirrel [1]
High - Desert Washes and Adjacent High Diversity Creosote Bush
Medium - Low Diversity Creosote Bush
Low - Monotypic Creosote Bush
Unsuitable - Rocky Terrain
1 inch = 1,500 feet
0
1,500
3,000
Feet
Source: USGS; NAIP 2005; Leitner 2009

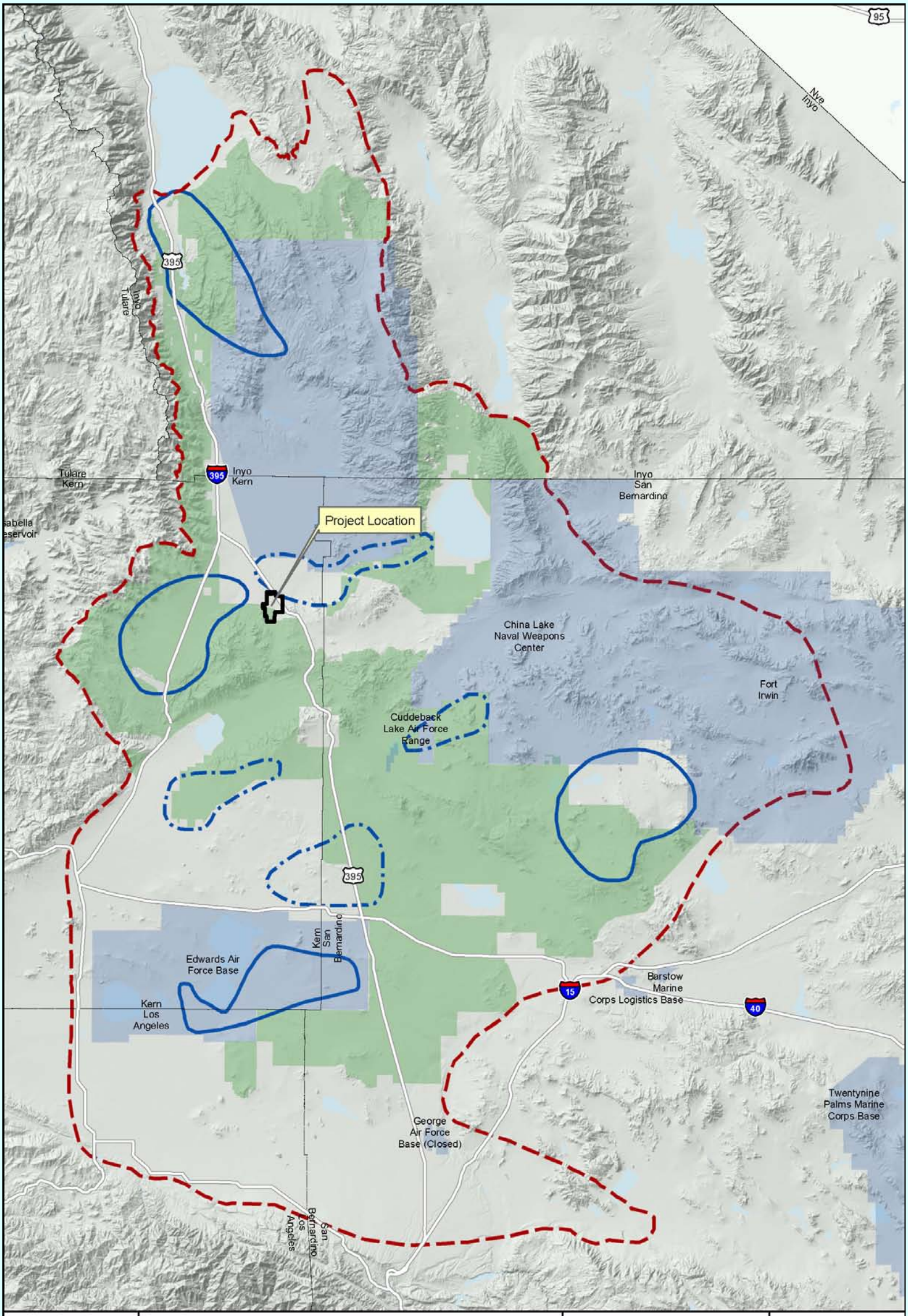
Ridgecrest Solar Power Project
Responses to 12/22/09
Data Request

Figure DR-BIO-58-2
Habitat Quality
Mohave Ground Squirrel

Solar Millennium

AECOM

Date: January 2010

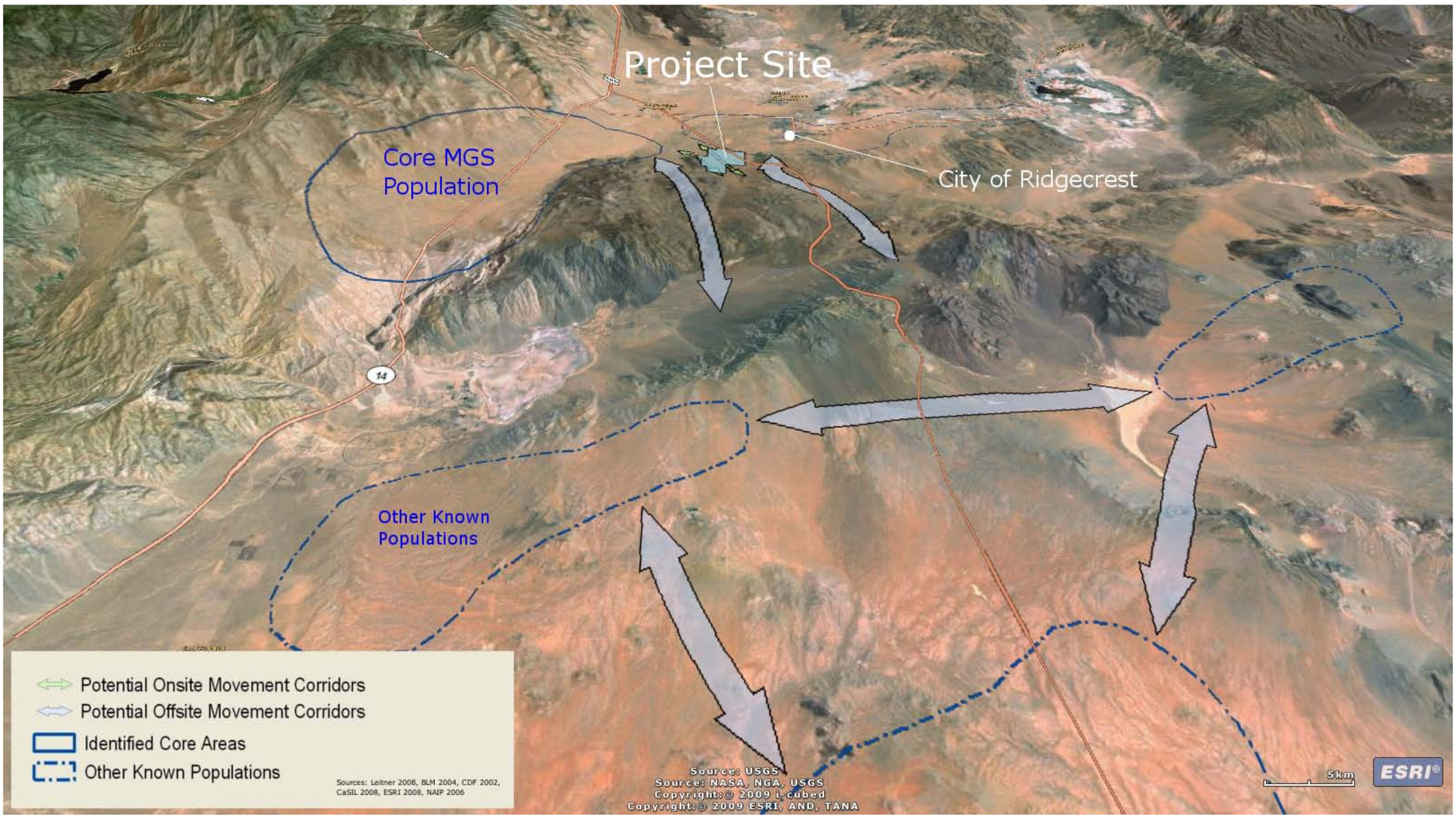

95
Nye
Inyo
395
Inyo
Tulare
Tulare
Kern
Inyo
Kern
395
Project Location
Inyo
San
Bernardino
China Lake
Naval Weapons
Center
Fort
Irwin
Cuddeback
Lake Air Force
Range
395
Kern
San
Bernardino
Edwards Air
Force Base
Kern
Los
Angeles
Barstow
Marine
Corps Logistics Base
15
40
Twentynine
Palms Marine
Corps Base
George
Air Force
Base (Closed)
Los
Angeles
San
Bernardino
Map Location
OR
ID
NV
UT
CA
AZ
Legend
Mohave Ground Squirrel Range
Identified Core Areas
Other Known Populations
West Mojave Plan MGS Conservation Area
1 inch = 60,000 feet
0
30,000
60,000
120,000
Feet
N
W
E
S
Ridgecrest Solar Power Project
Responses to 12/22/09
Data Request
Figure DR-58-3
Mohave Ground Squirrel
Conservation
Source: Leitner 2008, BLM 2004, CaSIL 2008, ESRI 2008
Solar
Millennium
AECOM
Date: January 2010

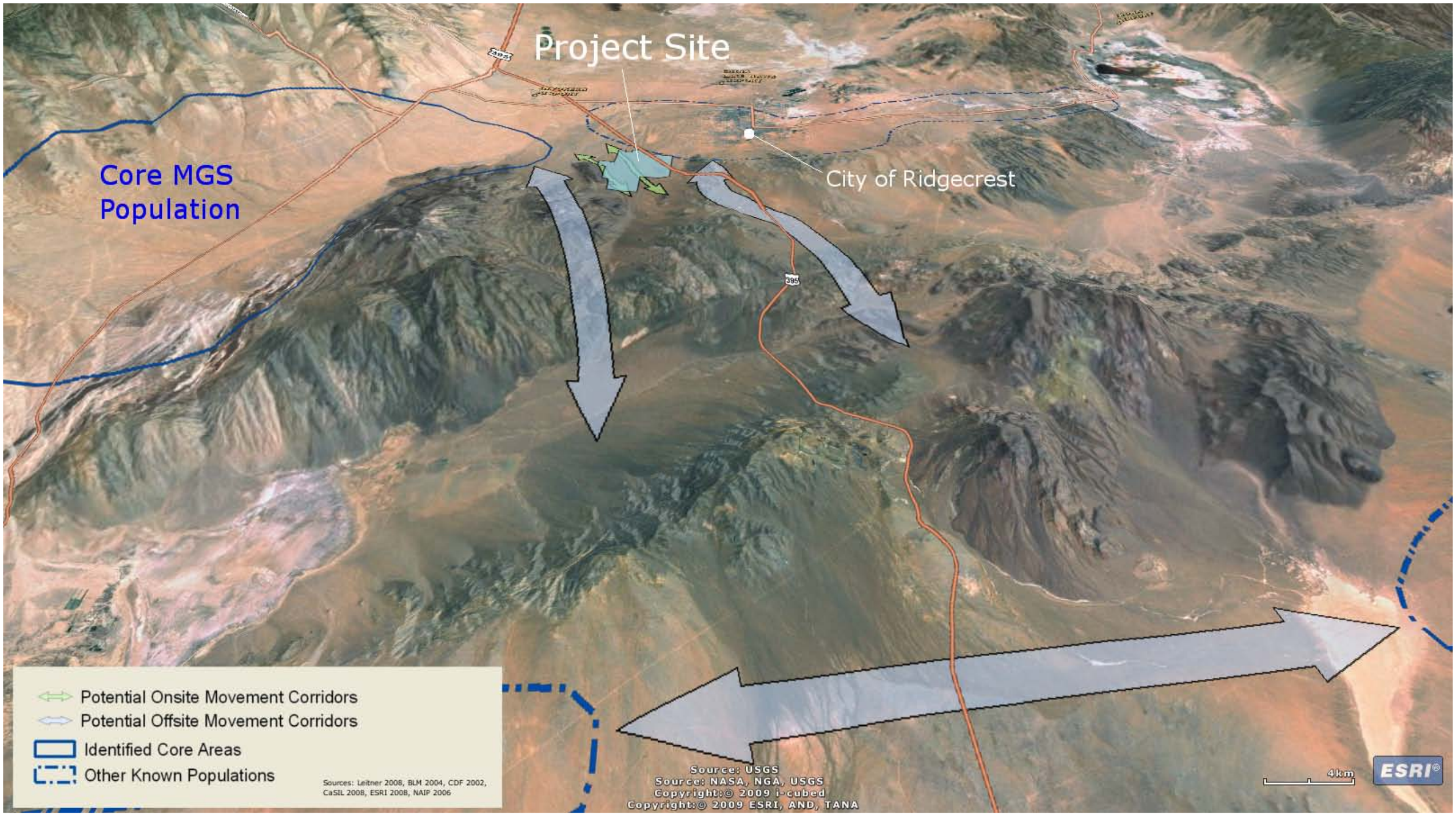
Mohave Ground Squirrel

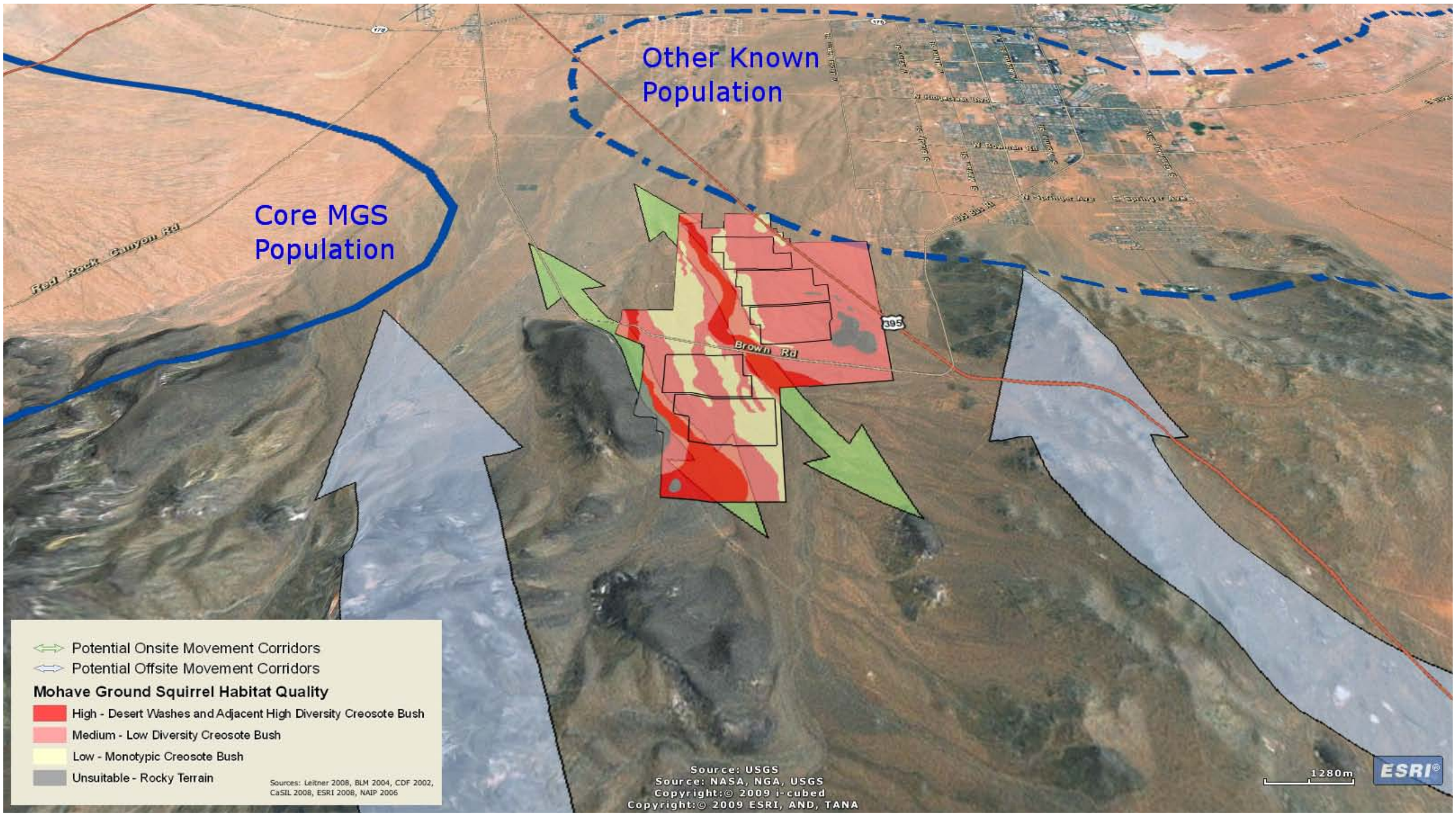
❑ Movement Corridors

RIDGECREST SOLAR POWER PROJECT

Solar Millennium LLC


Project Site
City of Ridgecrest
Core MGS Population
Other Known Populations
14
Potential Onsite Movement Corridors
Potential Offsite Movement Corridors
Identified Core Areas
Other Known Populations
Sources: Leitner 2008, BLM 2004, CDF 2002, CaSIL 2008, ESRI 2008, NAIP 2006
Source: USGS
Source: NASA, NGA, USGS
Copyright:© 2009 i-cubed
Copyright:© 2009 ESRI, AND, TANA
5km
ESRI®


Project Site
City of Ridgecrest
Core MGS Population
395
Potential Onsite Movement Corridors
Potential Offsite Movement Corridors
Identified Core Areas
Other Known Populations
Sources: Leitner 2008, BLM 2004, CDF 2002, CaSIL 2008, ESRI 2008, NAIP 2006
Source: USGS
Source: NASA, NGA, USGS
Copyright:© 2009 i-cubed
Copyright:© 2009 ESRI, AND, TANA
4km
ESRI®

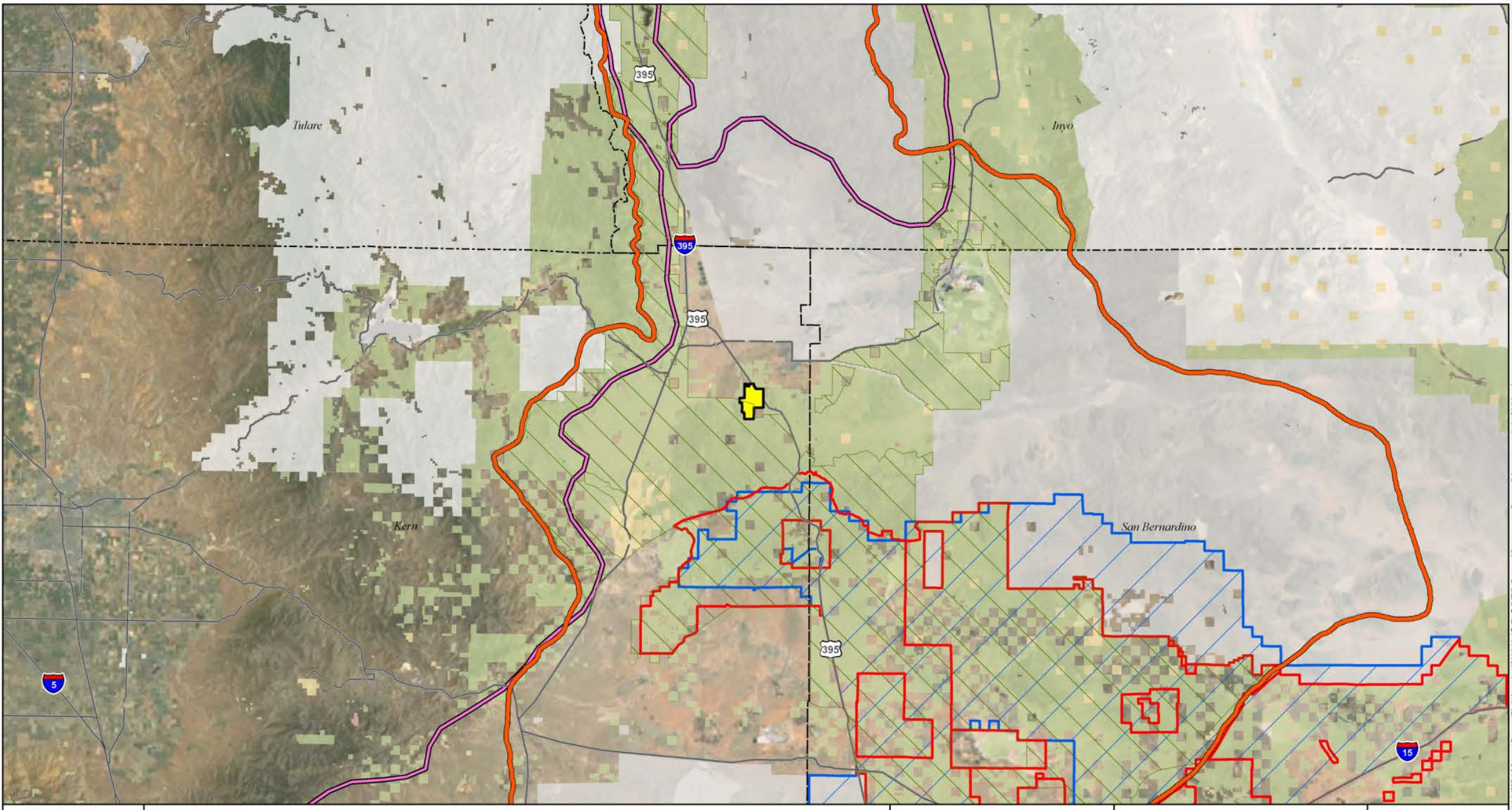

Other Known Population
Core MGS Population
Red Rock Canyon Rd
Brown Rd
395
Potential Onsite Movement Corridors
Potential Offsite Movement Corridors
Mohave Ground Squirrel Habitat Quality
High - Desert Washes and Adjacent High Diversity Creosote Bush
Medium - Low Diversity Creosote Bush
Low - Monotypic Creosote Bush
Unsuitable - Rocky Terrain
Sources: Leitner 2008, BLM 2004, CDF 2002, CaSIL 2008, ESRI 2008, NAIP 2006
Source: USGS
Source: NASA, NGA, USGS
Copyright:© 2009 i-cubed
Copyright:© 2009 ESRI, AND, TANA
1280m
ESRI

MITIGATION

- Measures
- Ratios
- Performance Criteria
- Net Effects to Functions and Values

RIDGECREST SOLAR POWER PROJECT

Solar Millennium LLC



Map Location

Legend

- Ridgecrest Solar Power Plant
- Desert Tortoise Range (DFG)
- Desert Wildlife Management Area
- Tortoise Critical Habitat
- Mohave Ground Squirrel Range (BLM)
- Mohave Ground Squirrel Conservation Area (BLM)

Land Management Data (BLM)

- Bureau of Land Management
- Other Federal Agencies
- Local Government
- Military
- State
- Unclassified/Private (shown as open aerial)

Source: NAIP 2005; AECOM 2010

N W E S

0 10 20 Miles

Ridgecrest Solar Power Project
Habitat Mitigation and Monitoring Plan

Figure 7
Regional Map of Conservation Priorities

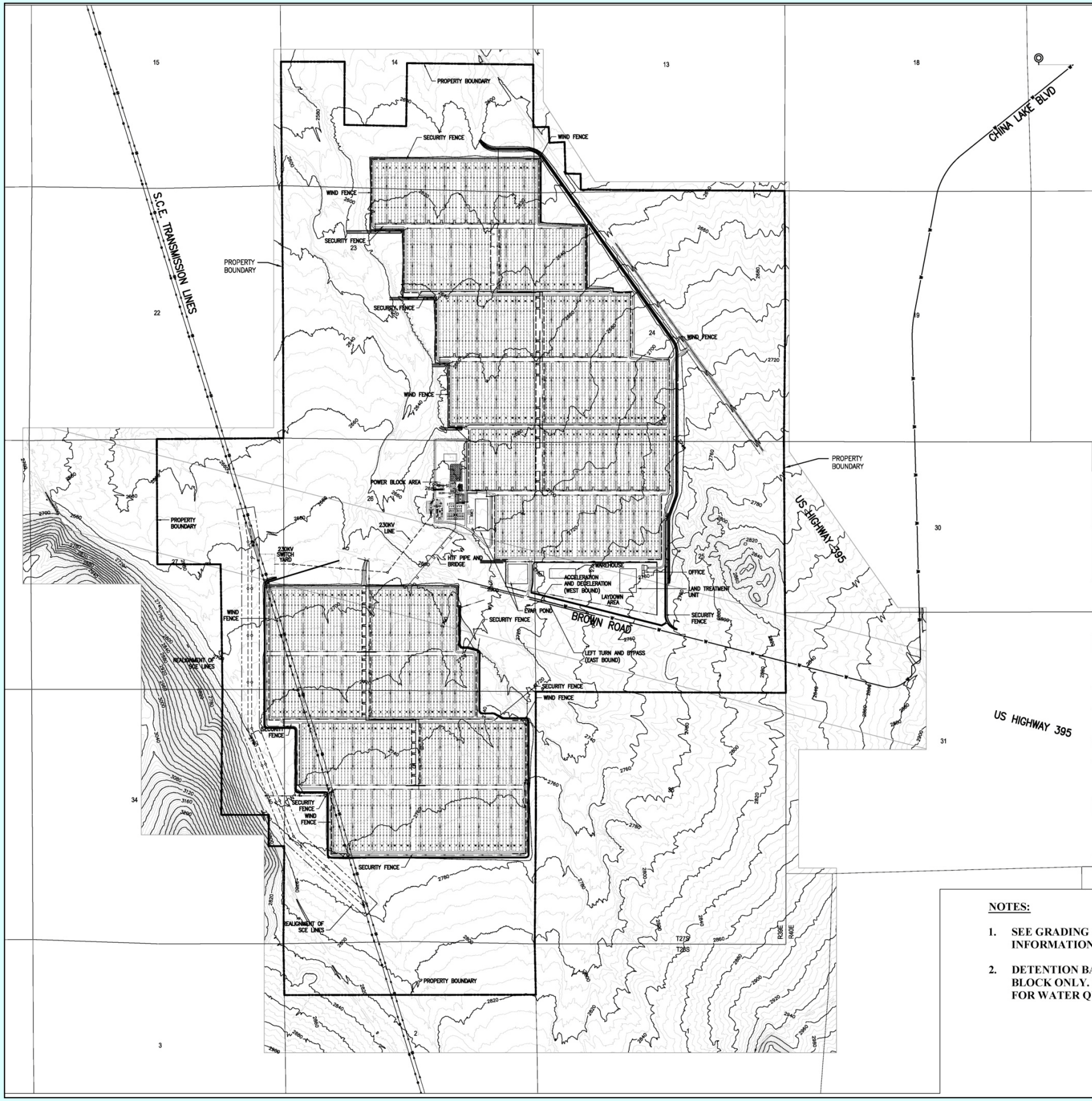
AECOM

Date: February 2010

Evaporation Ponds

Ridgecrest Solar Power Project

Solar Millennium LLC



NOTES:

1. SEE GRADING SHEETS 4-7 FOR DETAILED INFORMATION.
2. DETENTION BASIN IS PROVIDED AT POWER BLOCK ONLY. DETENSION BASIN IS PROVIDED FOR WATER QUALITY PURPOSES.

AECOM
5001 E. Commercenter Dr.
Bakersfield, Ca 93309
Phone 661.325.7253
www.aecom.com

REGISTERED PROFESSIONAL ENGINEER
WILLIAM CHARLES BLACK
No. C31465
EXP. 12-31-10
CIVIL
STATE OF CALIFORNIA

Designed:	W. BLACK
Checked:	W. BLACK
Drawn:	K. S. BEDFORD
Record Drawing by/date:	

Revisions:

#	DATE	DESCRIPTION

Prepared for:

Solar Millennium LLC

LEGEND:

- SOLAR FIELD PARABOLIC TROUGH
- BALANCE OF PLANT FACILITIES
- PROPOSED ACCESS ROAD (PAVED)
- PROPOSED ACCESS ROAD (GRAVEL)
- RAILROAD
- PROPOSED GAS
- PROPOSED WATER
- PROPOSED TELEPHONE
- PROPOSED ELECTRIC
- EXISTING ELECTRIC
- PROPOSED SECURITY FENCE
- PROPOSED WIND FENCE
- EXISTING CONTOURS (10 FOOT INTERVALS)
- PROPOSED DRAINAGE CHANNEL/FLOW DIRECTION
- EXISTING INTERMITTENT DRAINAGE CHANNEL
- SITE BOUNDARY
- HEADER PIPING
- ACCELERATION LANE

Ridgecrest Solar Power Project

Kern County, California

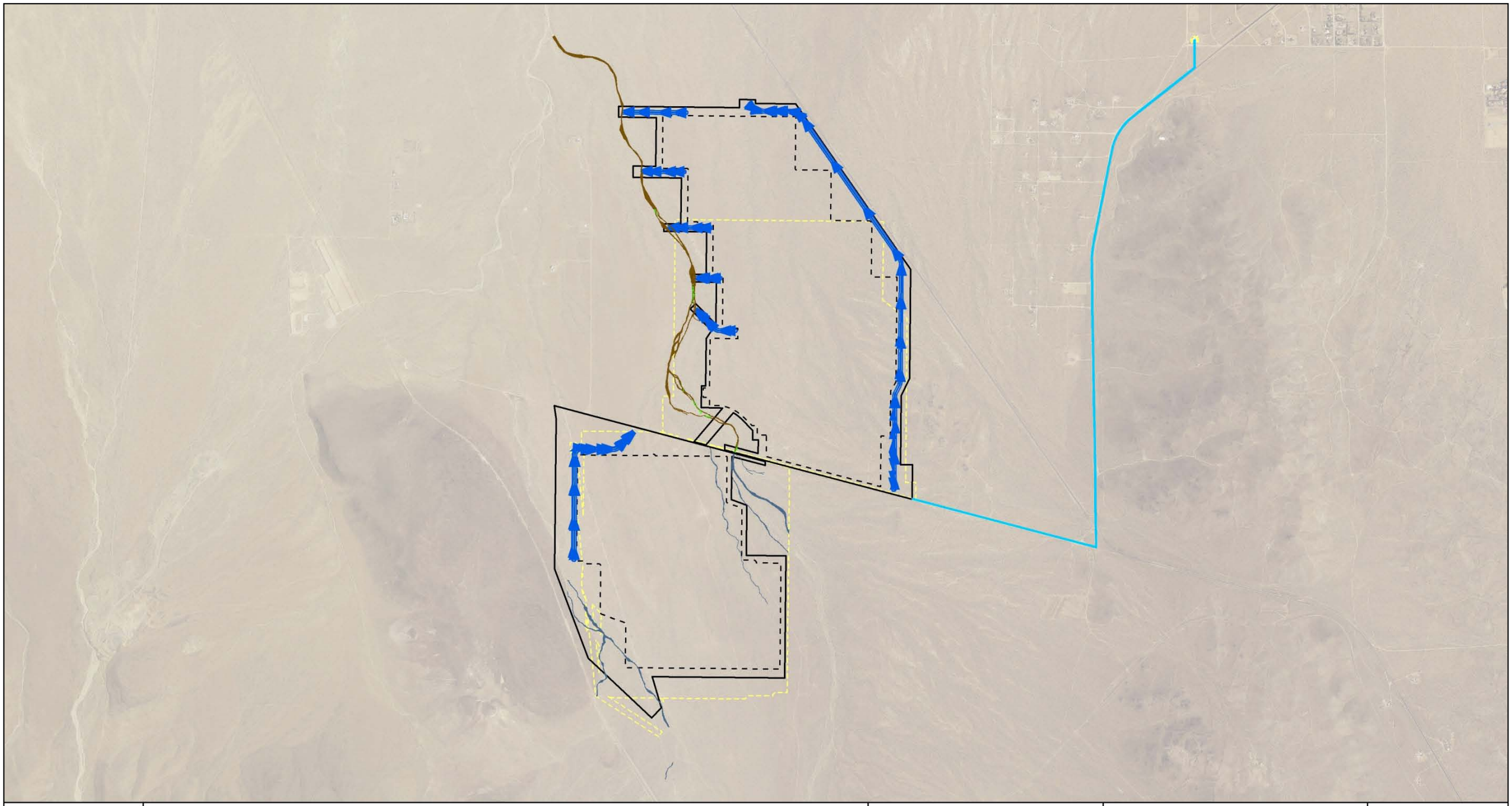
Preliminary Site Plan

Date: 02/10/10
Sheet: 03 of 34

Streambed Alteration Agreement

Ridgecrest Solar Power Project

Solar Millennium LLC



Ridgecrest Solar Power Project
Responses to 12/22/09
Data Request

Figure DR-BIO-65-3
Jurisdictional Waters of the State and Rerouted Drainages Overview

Solar Millennium

AECOM

Date: January 2010

BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION OF THE STATE OF CALIFORNIA
1516 NINTH STREET, SACRAMENTO, CA 95814
1-800-822-6228 – WWW.ENERGY.CA.GOV

APPLICATION FOR CERTIFICATION
For the *RIDGECREST SOLAR POWER PROJECT*

Docket No. 09-AFC-9

PROOF OF SERVICE
(Revised 4/30/2010)

APPLICANT
Billy Owens
Director, Project Development
Solar Millenium
1625 Shattuck Avenue, Suite 270
Berkeley, CA 94709-1161
owens@solarmillennium.com

Alice Harron
Senior Director, Project Development
1625 Shattuck Avenue, Suite 270
Berkeley, CA 94709-1161
harron@solarmillennium.com

Elizabeth Copley
AECOM Project Manager
2101 Webster Street, Suite 1900
Oakland, CA 94612
elizabeth.copley@aecom.com

Scott Galati
Galati/Blek, LLP
455 Capitol Mall, Suite 350
Sacramento, CA 95814
sgalati@gb-llp.com

Peter Weiner
Matthew Sanders
Paul, Hastings, Janofsky & Walker LLP
55 2nd Street, Suite 2400-3441
San Francisco, CA 94105
peterweiner@paulhastings.com
matthewsanders@paulhastings.com

INTERVENORS
California Unions for Reliable Energy (CURE)
Tanya A. Gulesserian
Elizabeth Klebaner
Marc D. Joseph
Adams Broadwell Joseph & Cardozo
601 Gateway Boulevard, Suite 1000
South San Francisco, CA 94080
tgulesserian@adamsbroadwell.com
eklebaner@adamsbroadwell.com

Desert Tortoise Council
Sidney Silliman
1225 Adriana Way
Upland, CA 91784
gssilliman@csupomona.edu

Basin and Range Watch
Laura Cunningham & Kevin Emmerich
P.O. Box 70
Beatty, NV 89003
bluerockiguana@hughes.net

Western Watersheds Project
Michael J. Connor, Ph.D.
California Director
P.O. Box 2364
Reseda, CA 91337-2364
mjconnor@westernwatersheds.org

*Kern Crest Audubon Society
Terri Middlemiss & Dan Burnett
P.O. Box 984
Ridgecrest, CA 93556
catbird4@earthlink.net
imdanburnett@verizon.net

*Center for Biodiversity
Ileene Anderson
Public Lands Desert Director
PMB 447, 8033 Sunset Boulevard
Los Angeles, CA 90046
ianderson@biologicaldiversity.org

*Center for Biodiversity
Lisa T. Belenky, Senior Attorney
351 California Street, Suite 600
San Francisco, CA 94104
lbelenky@biologicaldiversity.org

INTERESTED AGENCIES
California ISO
E-mail Preferred
e-recipient@caiso.com

Janet Eubanks, Project Manager,
U.S. Department of the Interior
Bureau of Land Management
California Desert District
22835 Calle San Juan de los Lagos
Moreno Valley, California 92553
Janet_Eubanks@ca.blm.gov

ENERGY COMMISSION
JAMES D. BOYD
Vice Chair and Presiding Member
jboyd@energy.state.ca.us

ANTHONY EGGERT
Commissioner and Associate Member
aeggert@energy.state.ca.us

Kourtney Vaccaro
Hearing Officer
kvaccaro@energy.state,ca.us

*indicates change

Eric Solorio
Project Manager
esolorio@energy.state.ca.us

Tim Olson
Advisor to Commissioner Boyd
tolson@energy.state.ca.us

Jared Babula
Staff Counsel
jbabula@energy.state.ca.us

Jennifer Jennings
Public Adviser
publicadviser@energy.state.ca.us

DECLARATION OF SERVICE

I, Elizabeth Copley, declare that on May 10, 2010, I served and filed copies of the attached Ridgecrest Solar Power Project (Docket No. 09-AFC-9) CEC Staff Workshop Solar Millennium PowerPoint Presentations. The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service list, located on the web page for this project at:

[http://www.energy.ca.gov/sitingcases/solar_millennium_ridgecrest].

The documents have been sent to both the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit, in the following manner:

(*Check all that Apply*)

For service to all other parties:

X sent electronically to all email addresses on the Proof of Service list;

_ by personal delivery;

_ by delivering on this date, for mailing with the United States Postal Service with first-class postage thereon fully prepaid, to the name and address of the person served, for mailing that same day in the ordinary course of business; that the envelope was sealed and placed for collection and mailing on that date to those addresses **NOT** marked "email preferred."

AND

For filing with the Energy Commission:

X sending an original paper copy and one electronic copy, mailed and emailed Respectively, to the address below (preferred method);

OR

__ depositing in the mail an original and 12 paper copies, as follows:

CALIFORNIA ENERGY COMMISSION
Attn: Docket No. 09-AFC-9
1516 Ninth Street, MS-4
Sacramento, CA 95814-5512
docket@energy.state.ca.us

I declare under penalty of perjury that the foregoing is true and correct.