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February 17, 2010

Commissioner Anthony Eggert, Presiding Member
Vice Chair James D. Boyd, Associate Member
Mr. Craig Hoffman, Project Manager
Abengoa Mojave Solar Project (09-AFC-5)
California Energy Commission
1516 Ninth Street
Sacramento, CA 95814

DOCKET	
09-AFC-5	
DATE	<u>FEB 17 2010</u>
RECD.	<u>FEB 17 2010</u>

Re: Abengoa Mojave Solar Project (09-AFC-5): Revised Figures for the Second Supplemental Written Response to Data Request Set 1B (Nos. 1-86) for Water Resources

Dear Commissioners Eggert and Boyd:

Abengoa Solar Inc. ("the Applicant") hereby files these revised figures for the second supplemental written response to Data Request Set 1B for Water Resources. A rotation in the coordinate system for the MODFLOW output caused the project boundary to appear shifted on the map. The rotation error was fixed and the figures revised to show the proper location of the project boundary. Please replace the figures docketed yesterday with the attached revised figures.

Thank you for your time and consideration of this matter.

Sincerely,



Christopher T. Ellison
Shane E. Conway
Attorneys for Abengoa Solar Inc.

Attachment

STATE OF CALIFORNIA

Energy Resources Conservation
and Development Commission

Application for Certification for the **ABENGOA**)
MOJAVE SOLAR POWER PLANT)
)
)
_____)

Docket No. 09-AFC-5

PROOF OF SERVICE

I, Karen A. Mitchell, declare that on February 17, 2010, I served the attached *Revised Figures for the Second Supplemental Written Response to Data Request Set 1B (Nos. 1-86) for Water Resources* via electronic mail and United States Mail to all parties on the attached service list.

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



Karen A. Mitchell



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 **ABENGOA MOJAVE**
SOLAR POWER PLANT

Docket No. 09-AFC-5
PROOF OF SERVICE
(Revised 2/9/2010)

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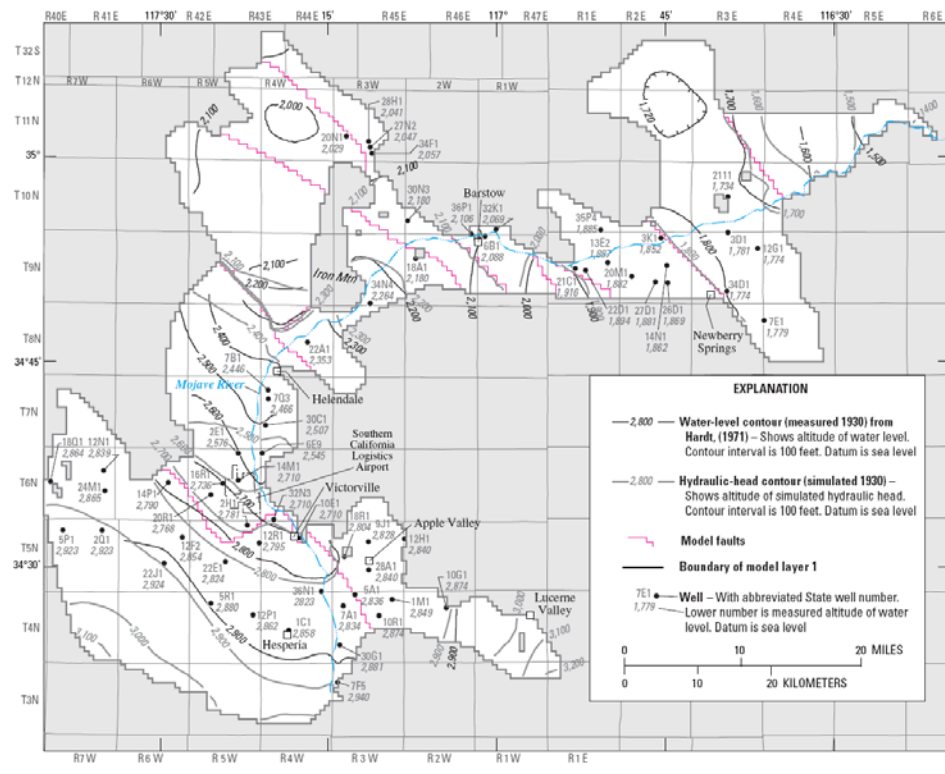
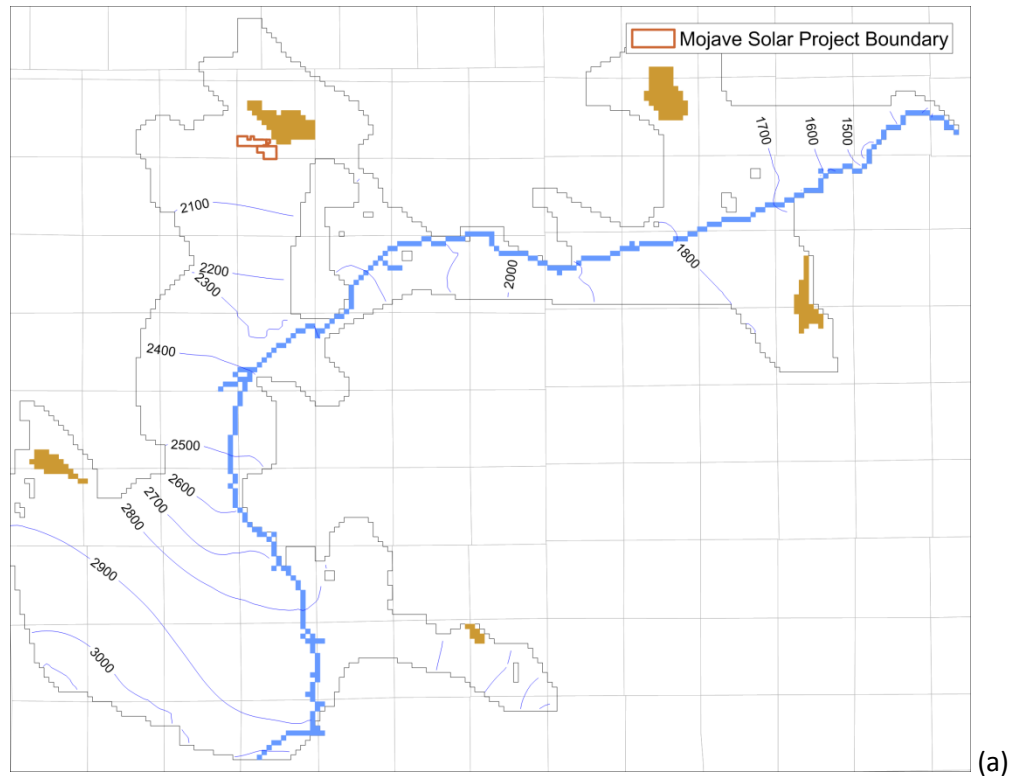
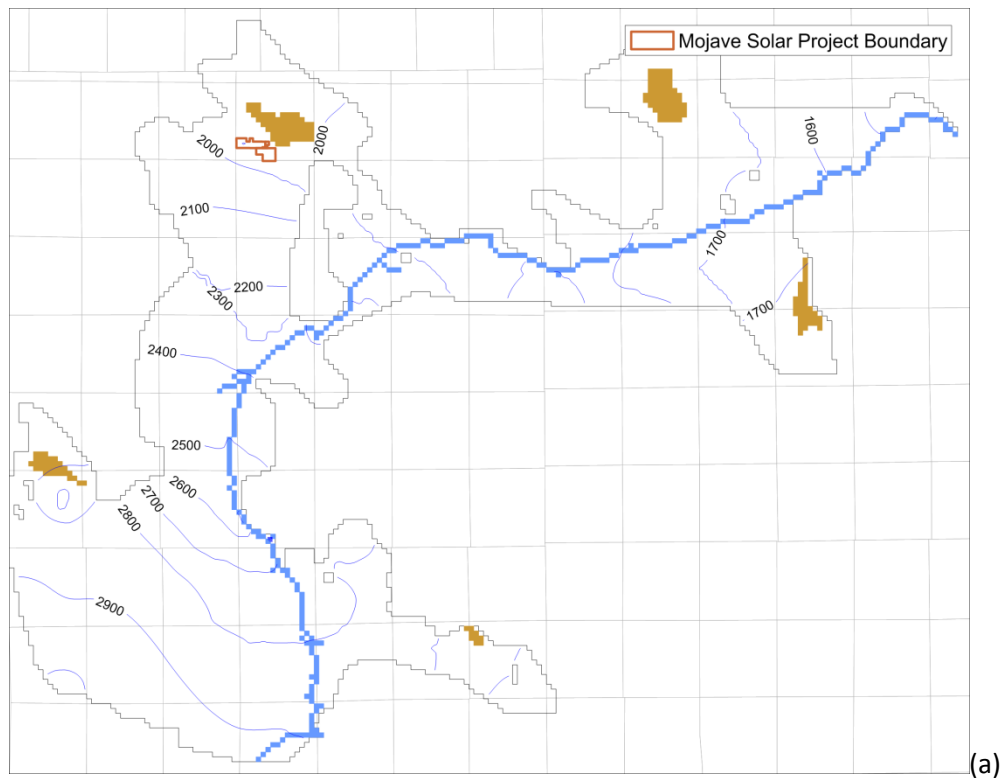
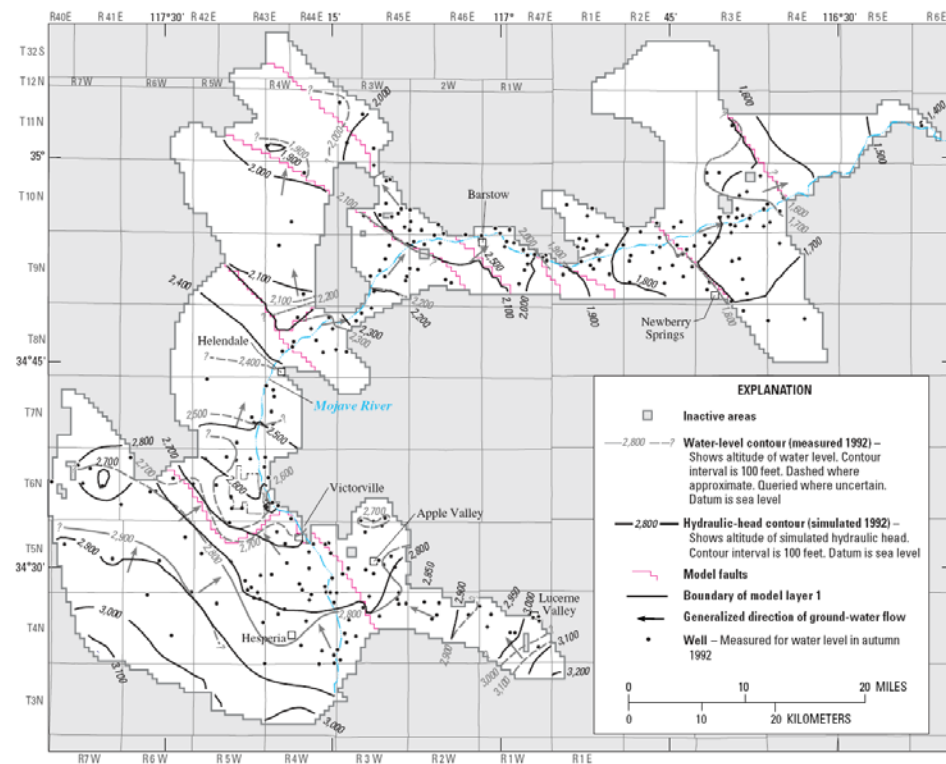


Figure B-1. Comparison of steady-state model results for 1931: (a) from the updated model in Groundwater Vistas; (b) from Stamos et al. (2001).



(a)



(b)

Figure B-2. Comparison of transient model results for 1992: (a) from the updated model in Groundwater Vistas; (b) from Stamos et al. (2001).

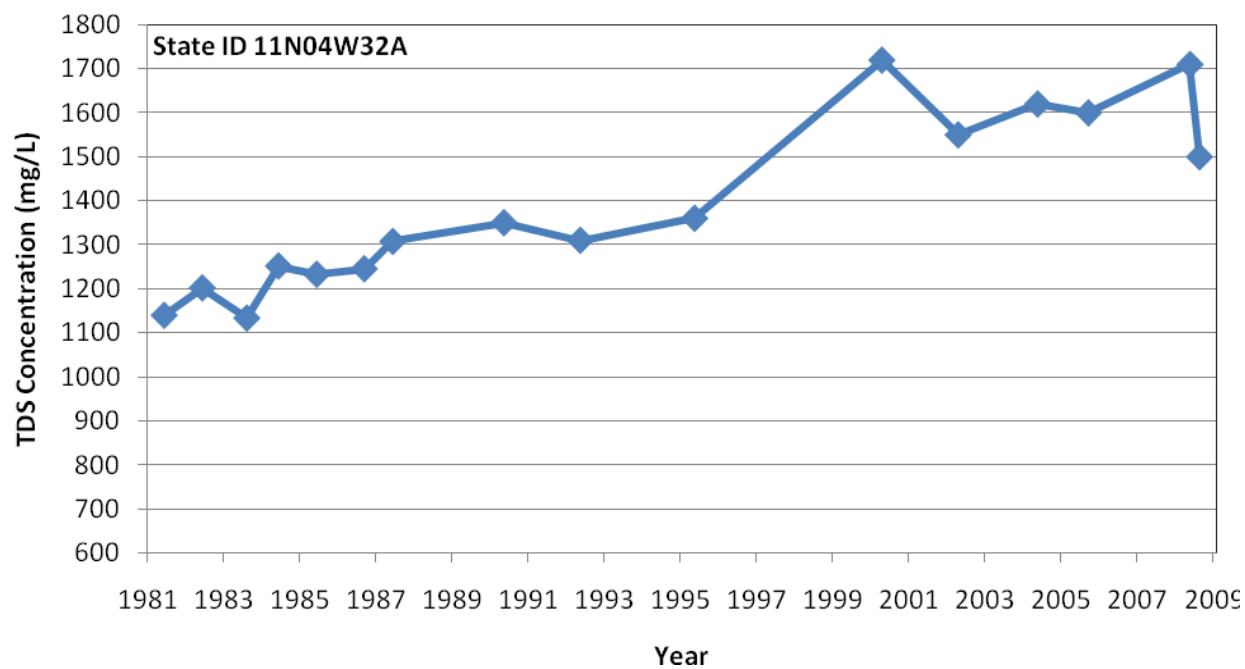


Figure 21-3. Total dissolved solids concentrations (mg/L) for well 11N04W32A that is near the Abengoa Solar Energy Project proposed wells.

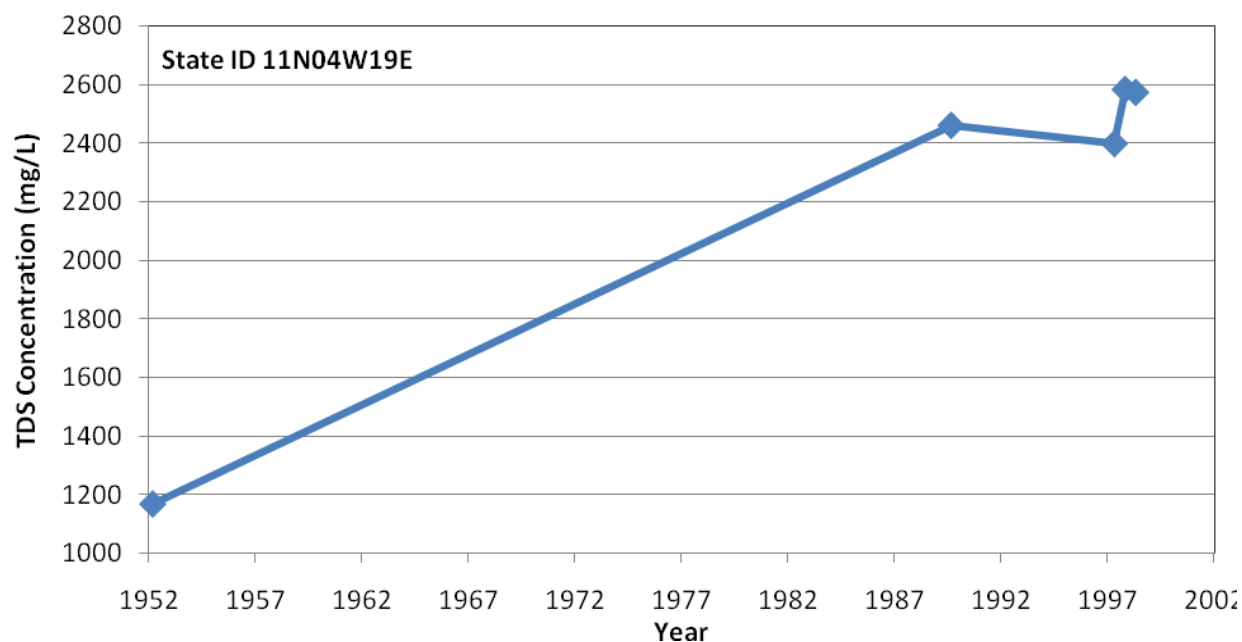


Figure 21-4. Total dissolved solids concentrations (mg/L) for well 11N04W19E that is near the Abengoa Solar Energy Project proposed wells.

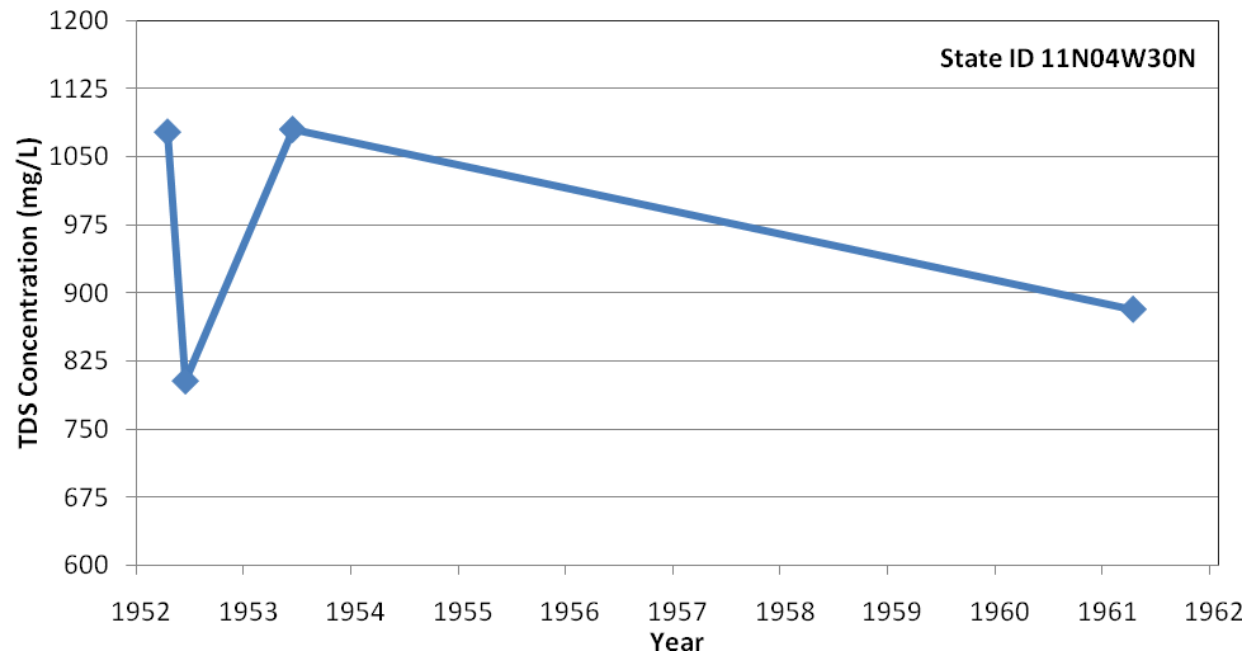


Figure 21-5. Total dissolved solids concentrations (mg/L) for well 11N04W30N that is near the Abengoa Solar Energy Project proposed wells.

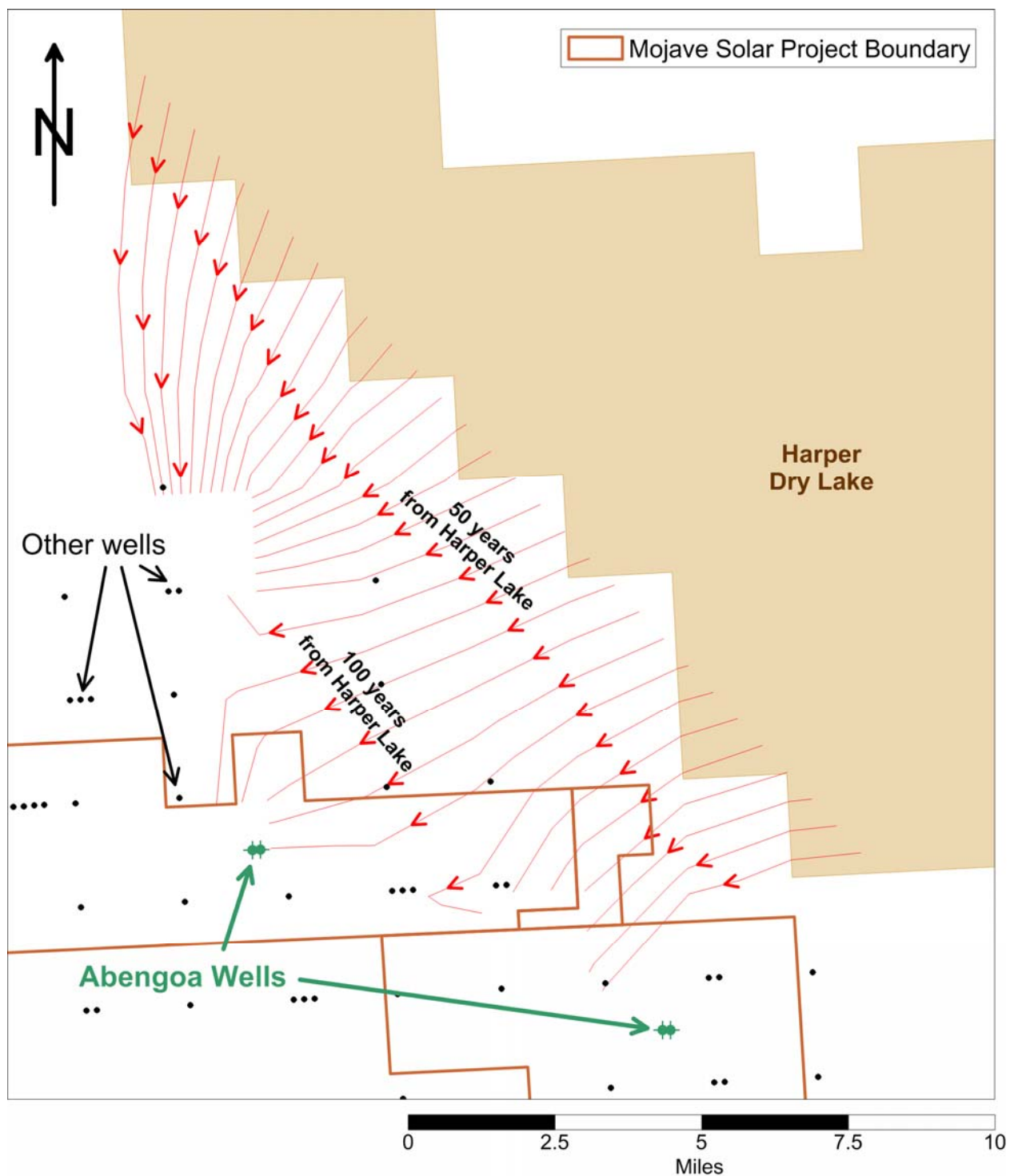


Figure 23A-1(a). Pathlines originating from Harper Dry Lake (yellow area) to Abengoa Solar Energy Project proposed wells. Model simulation dev1 (calibrated model).

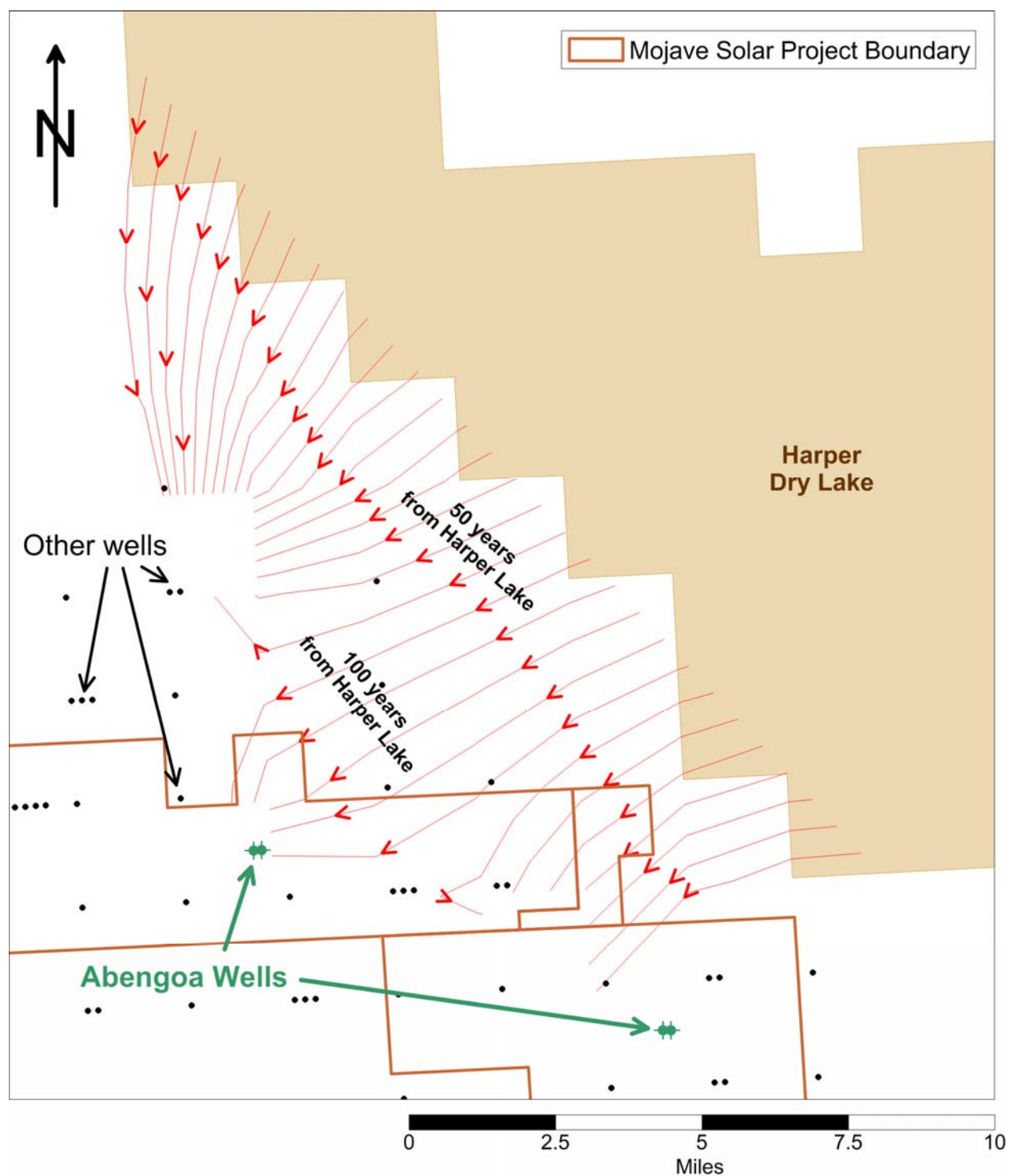


Figure 23A-1(b). Pathlines originating from Harper Dry Lake (yellow area) to Abengoa Solar Energy Project proposed wells. Model simulation dev1-hi-k (increased transmissivity in Harper Valley).

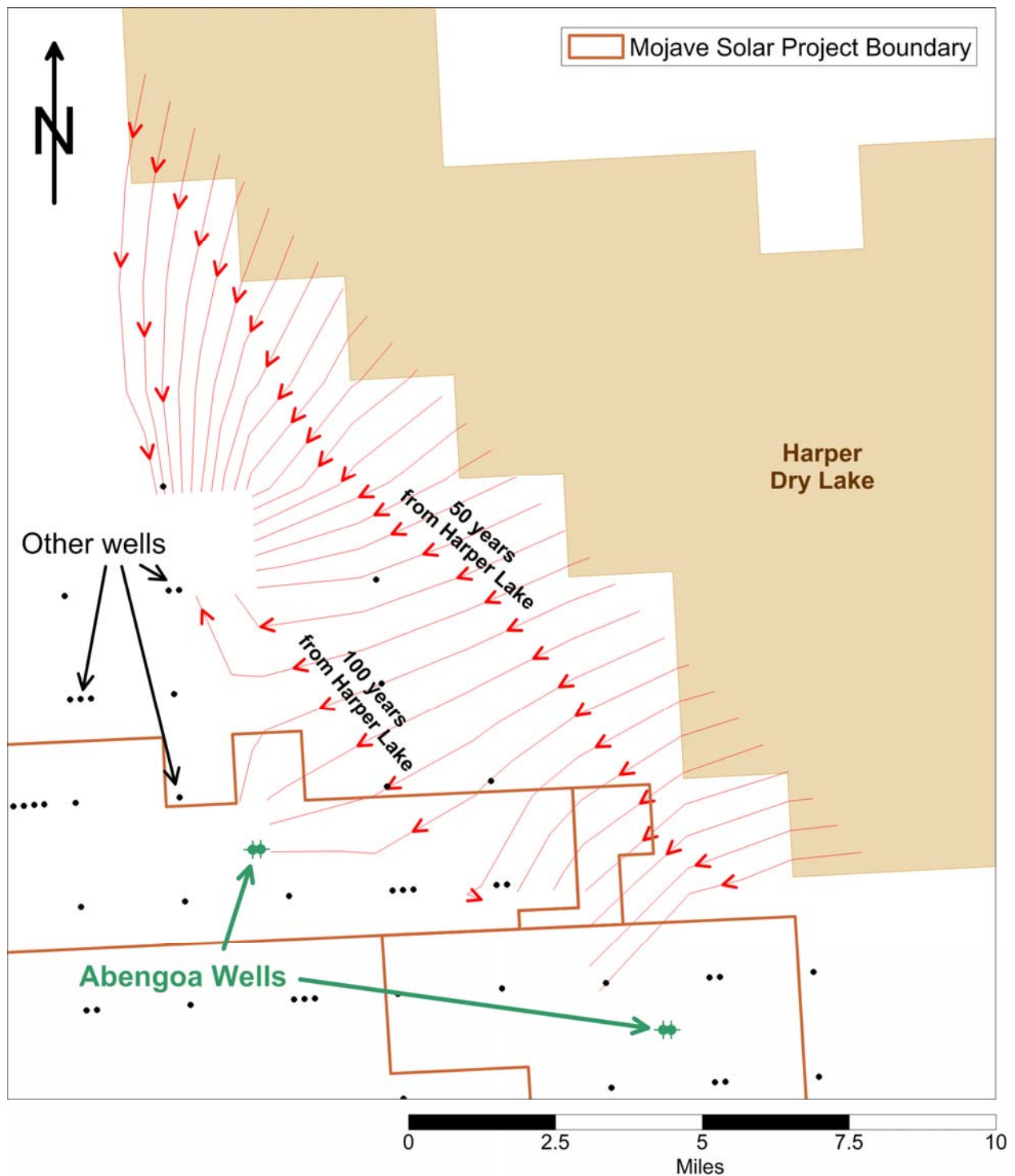


Figure 23A-1(c). Pathlines originating from Harper Dry Lake (yellow area) to Abengoa Solar Energy Project proposed wells. Model simulation dev2 (calibrated model with 10% increased Harper Valley pumping).

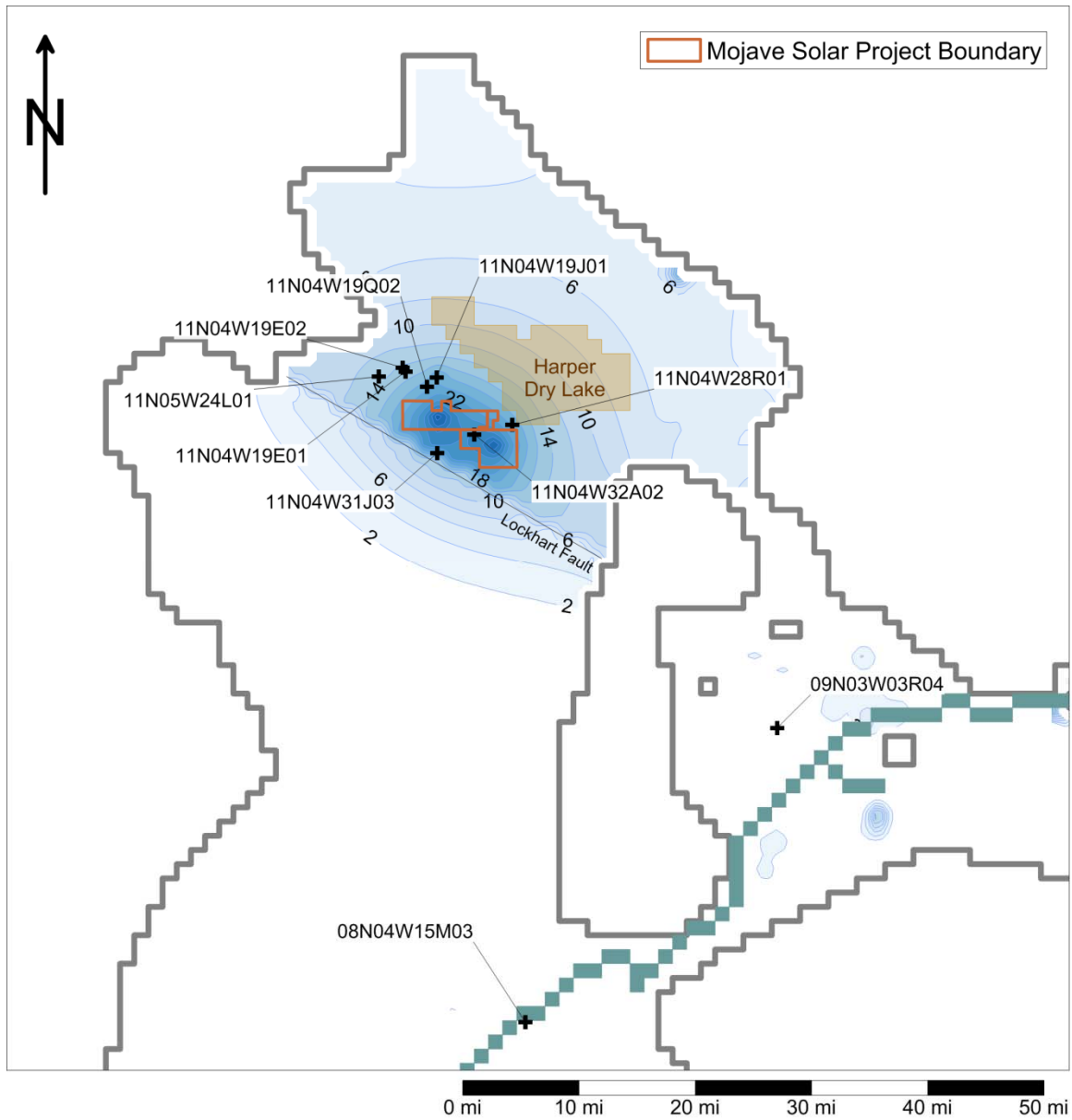


Figure 31-3(a). Water-level declines in 2042 for the 'dev1' case (calibrated model with all Abengoa wells pumping). The decline is compared to the calibrated model without the Abengoa wells.

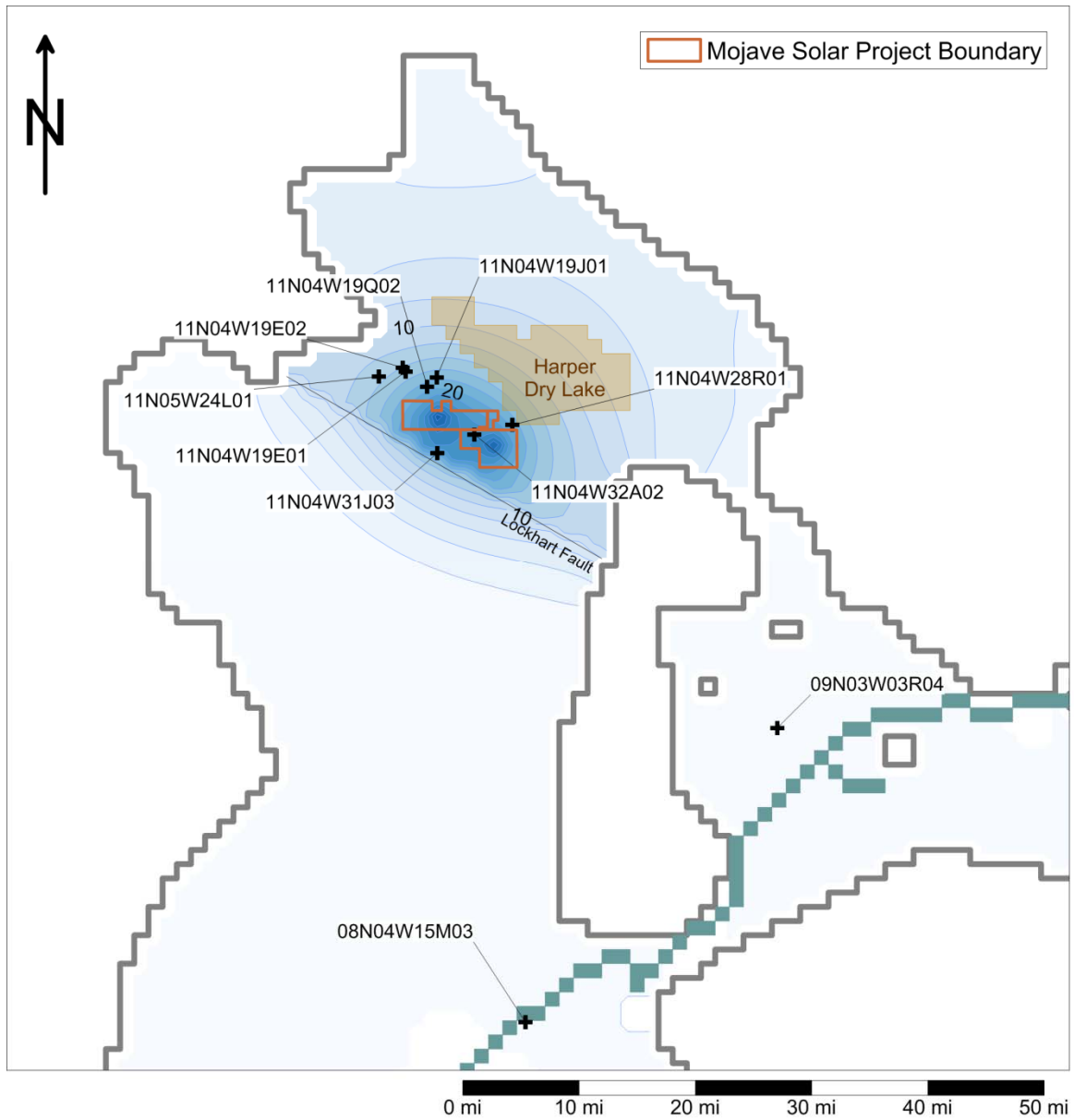


Figure 31-3(b). Water-level declines in 2042 for the 'dev1-hi-s' case (all Abengoa wells pumping with storage coefficient increased by 25%). The decline is compared to the comparable model without the Abengoa wells.

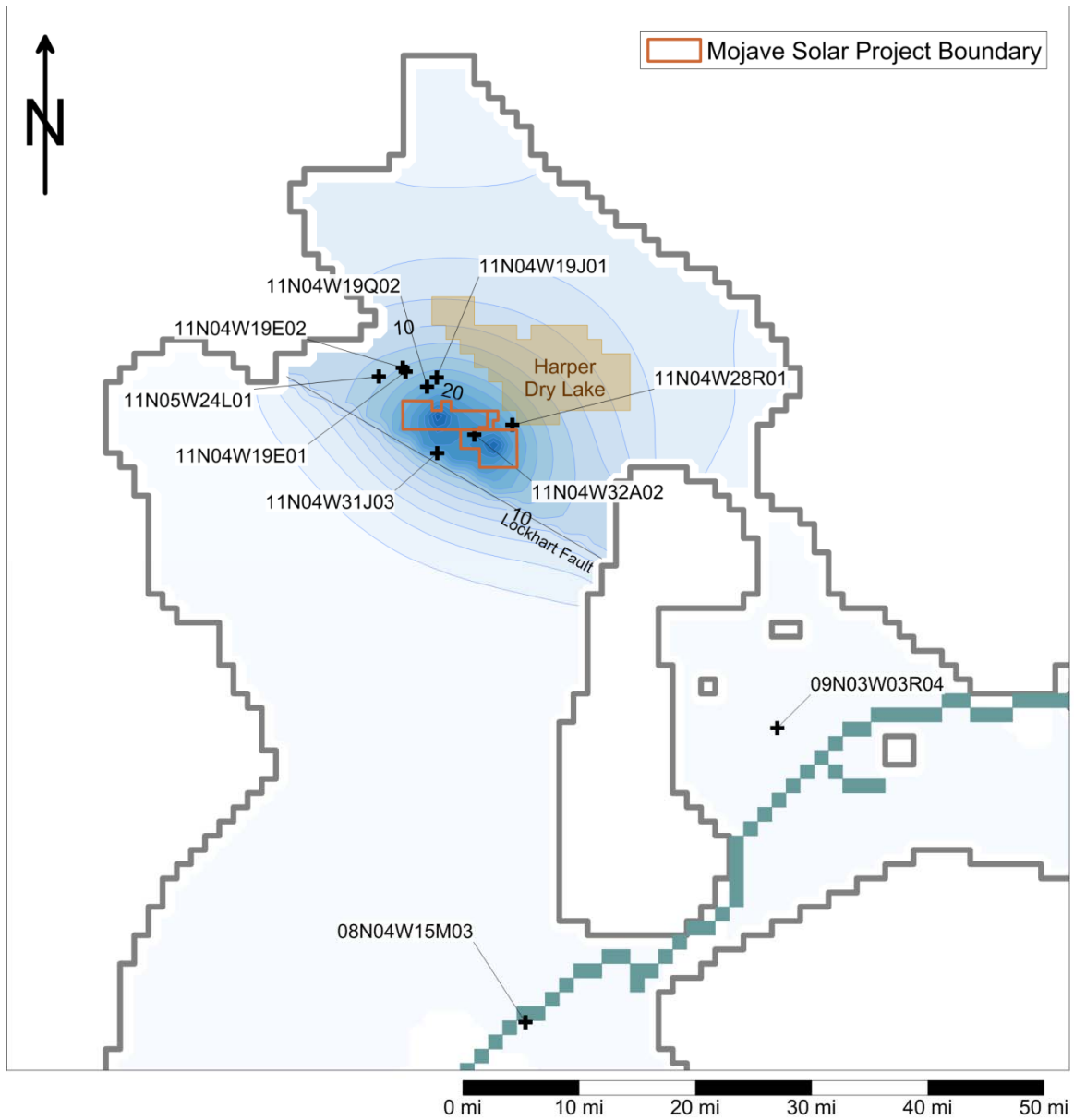


Figure 31-3(c). Water-level declines in 2042 for the 'dev1-lo-s' case (all Abengoa wells pumping with storage coefficient decreased by 25%). The decline is compared to the comparable model without the Abengoa wells.

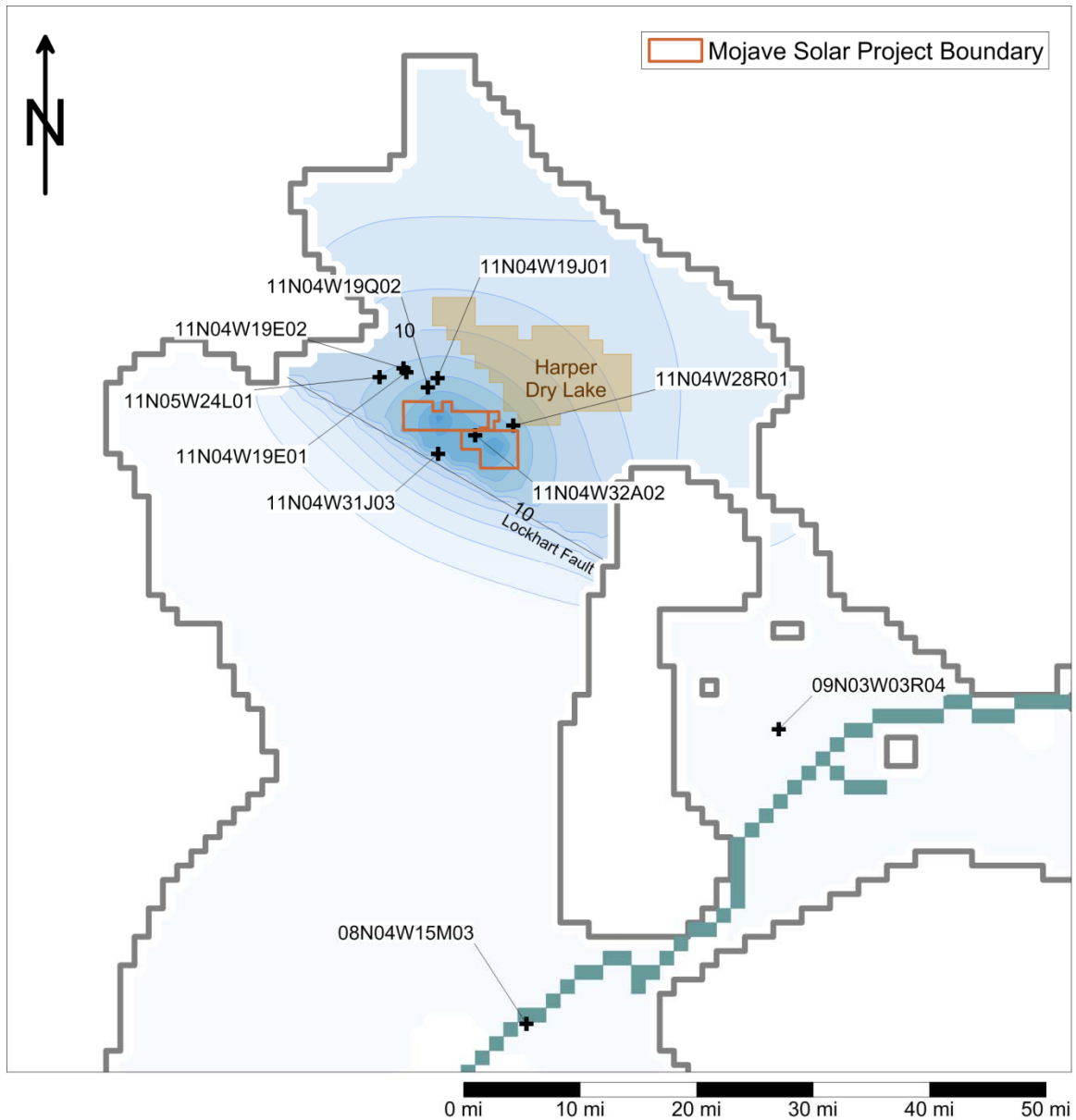


Figure 31-3(d). Water-level declines in 2042 for the 'dev1-hi-k' case (all Abengoa wells pumping with transmissivity increased by 50%). The decline is compared to the comparable model without the Abengoa wells.

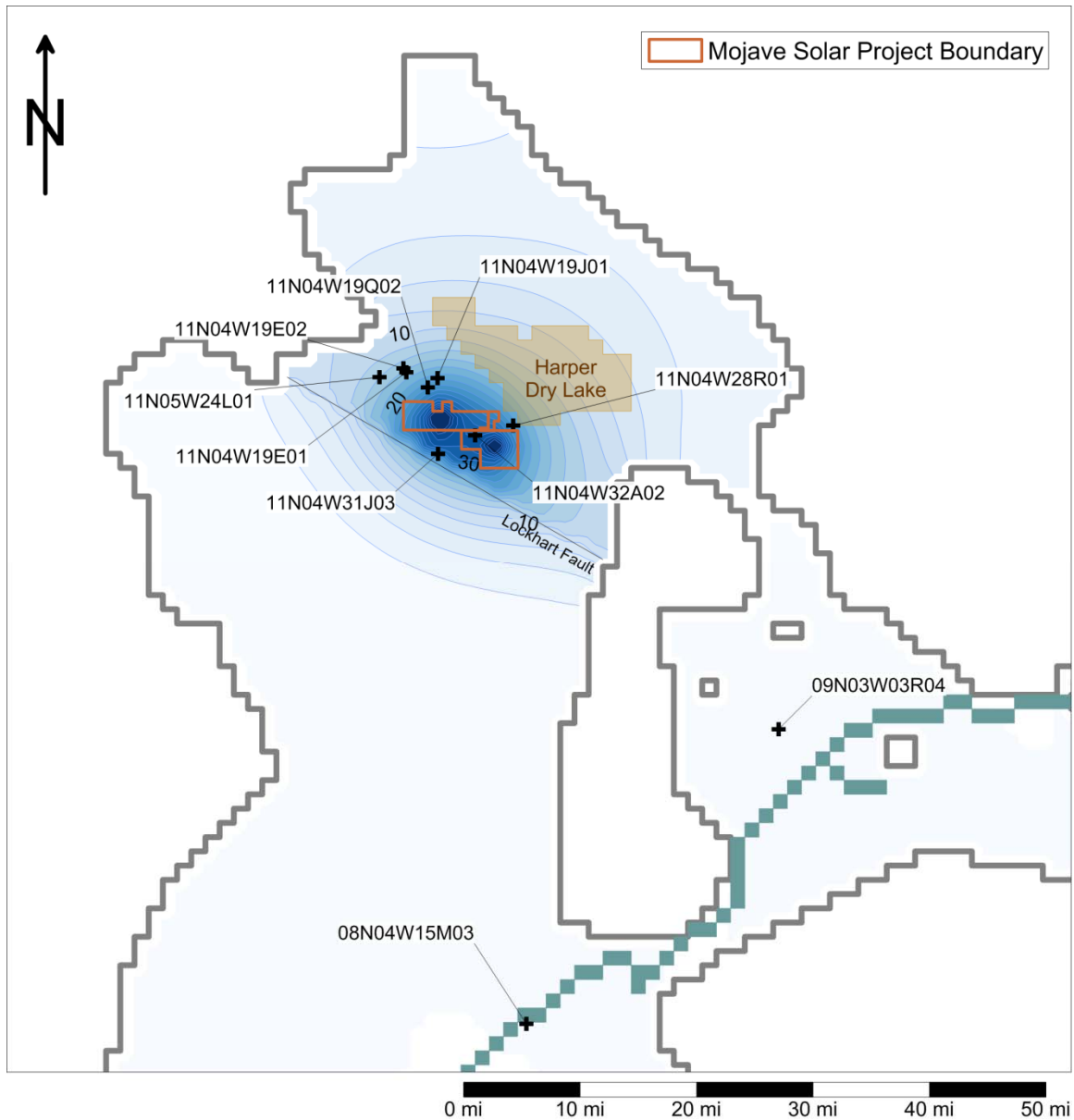


Figure 31-3(e). Water-level declines in 2042 for the 'dev1-lo-k' case (all Abengoa wells pumping with transmissivity decreased by 50%). The decline is compared to the comparable model without the Abengoa wells.

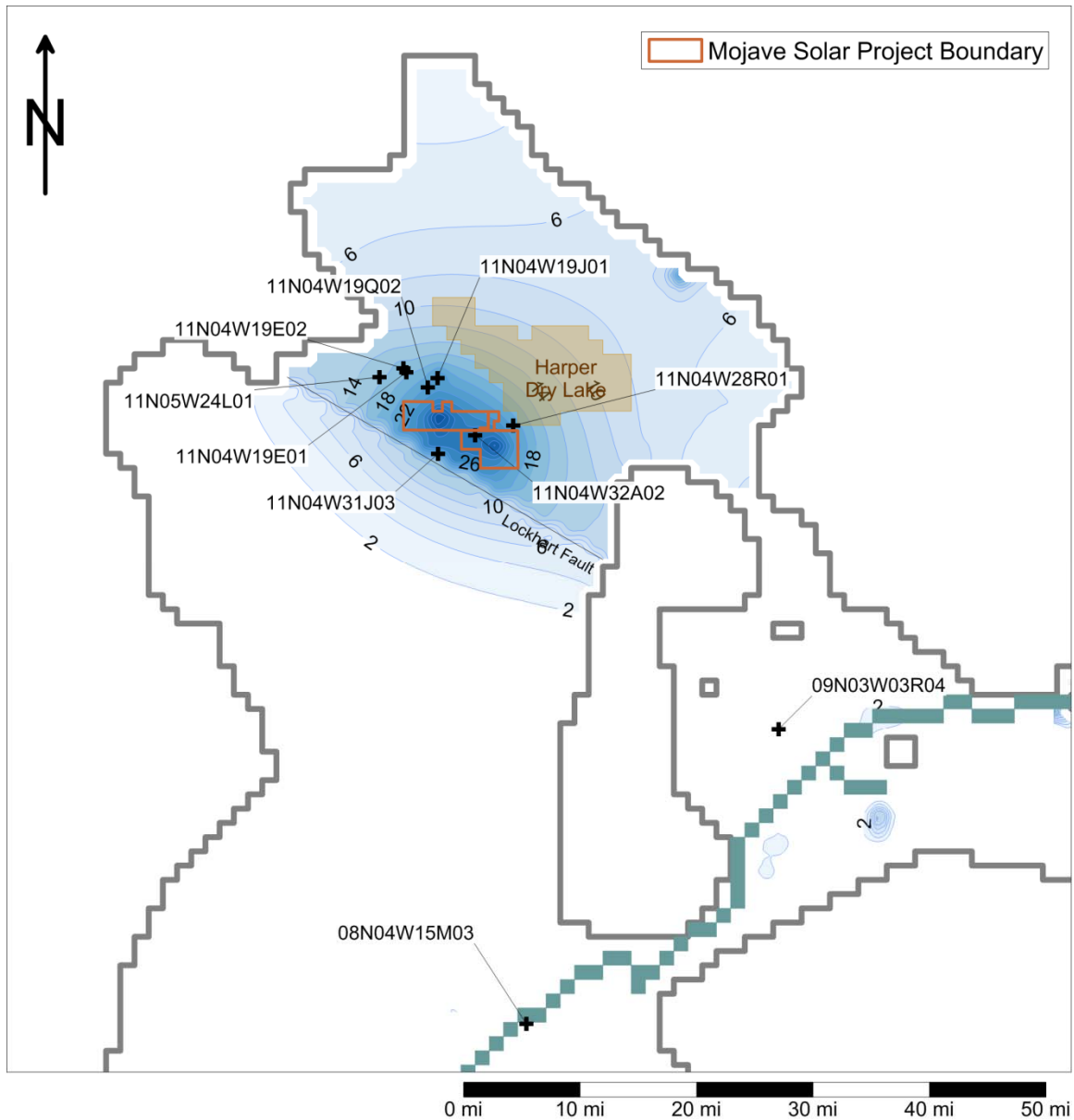


Figure 31-3(f). Water-level declines in 2042 for the 'dev2' case (all Abengoa wells pumping with all other HVGB pumping increased by 10% after 2010). The decline is compared to the calibrated model without the Abengoa wells.