California Energy Commission
DOCKETED
08-AFC-8A
TN # 67318
SEP 26 2012

HYDROGEN ENERGY CALIFORNIA (08-AFC-8A)

Data Response Workshop

Participation Information, Agenda and Figures to be used during the workshop

September 27, 2012

9:30 A.M.

California Energy Commission

2nd Floor Fishbowl

1516 9th Street

Sacramento, CA 95814

WebEx call in toll free number: 1-866-469-3239

Access Code: 924 062 111

Meeting Password: meeting@930

REMOTE ATTENDANCE FOR THE

HECA Staff Workshop on September 27, 2012

You may participate in this workshop through WebEx, the Energy Commission's online meeting service. Presentations will appear on your computer screen, and you may listen to audio via your computer or telephone. Please be aware that the meeting may be recorded.

1. COMPUTER LOG-ON WITH A DIRECT PHONE NUMBER:

- Please go to https://energy.webex.com and enter: **924 062 111**
- When prompted, enter your information and **meeting@930**

After you login, a prompt will appear on-screen for you to provide **your** phone number.
In the **Number box**, type your area code and phone number and click **OK**.
You will receive a call back on your phone for the audio portion of the meeting.

2. COMPUTER LOG-ON FOR CALLERS WITH AN EXTENSION PHONE NUMBER, ETC:

- Please go to https://energy.webex.com and enter: **924 062 111** and **meeting@930**
- *After you login, a prompt will ask for your phone number. Click "**CANCEL**."*
- *Instead call **1-866-469-3239**. When prompted, enter: **924 062 111** and your unique Attendee ID number which is listed in the top left area of your computer screen after you login.*

3. TELEPHONE ONLY (NO COMPUTER ACCESS):

- *Call **1-866-469-3239** and when prompted enter: **924 062 111***

If you have difficulty joining the meeting, please call the WebEx Technical Support number at **1-866-229-3239.** To see if your computer is compatible, visit [http://support.webex.com/support/systemrequirements.html]. Please be aware that the meeting's WebEx audio and on-screen activity may be recorded.

Agenda
HECA 08-AFC-8A Data Response Workshop
September 27, 2012
9:30 a.m.

Lunch Break: 12:00 p.m. to 12:30 p.m.

Call in from the CA Department of Fish and Game 1:00 p.m. (Biological Resources)

Call in from Occidental Petroleum of Elk Hills, 3:00 p.m. (AQ/GHG/EOR/Sequestration)

- **Introductions, Webex and workshop procedures**
- **Project Description:** Brief Summary
- **Air Quality, Greenhouse Gas, Enhanced Oil Recovery (GHG/EOR)**
- **Community Resources: Land Use, Traffic and Transportation, Noise, Visual, Socioeconomics, Cultural Resources, Alternatives**
- **Soils and Water (w/o GHG)**
- **Power Plant Efficiency/Reliability**
- **Transmission System Engineering**
- **Biology, Soils and Water (not GHG/EOR), Waste Management, Traffic & Transportation (pertaining to Biological resource analysis)**
- **Continuation of Air Quality, Greenhouse Gas and Enhanced Oil Recovery (GHG/EOR)**
- **Public Health, Hazardous Materials Management, Worker Safety & Fire Protection**
- **Other Technical Issue Discussions**
- **Public Comments / Questions**
- **Note: Many of the topics are of interest to several technical disciplines. This cross-over in questions and responses is expected.**

Data Response Workshop:
PURPOSE

- The purpose of the workshop is to allow staff, the applicant, intervenors, interested agencies, and the public to discuss several technical disciplines related to the HECA Amended Application for Certification, filed on May 2, 2012, including but not limited to: Air Quality, Greenhouse Gas, Carbon Capture and Storage, Land Use, Biology, Cultural Resources, Noise, Socioeconomics, Traffic & Transportation, Health and Safety, Hazardous Materials, Visual Resources and other topics as needed.

- The data response workshop is to provide CEC staff, intervenors and others to request data information, questions, inquire to the status of requested information and to provide clarification in regards to the applicants responses to the data requests received to date.

- Note that the applicant has filled extensions and objections to the data requests in which, CEC staff, Intervenors and others will be requested to focus on the data responses received to date, request clarification and indicate additional data information needs.

Data Requests and Responses Received to Date

- Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR) Data Requests #1 - 4. Dated: March 16, 2012.
- Responses to CEC Comments on the Modeling Protocol Supplement. Dated March 20, 2012.
- Association of Irritated Residents (AIR) Data Request. Dated: March 23, 2012.
- Association of Irritated Residents Questions Re Modeling Protocol Supplement. Dated March 23, 2012.
- Applicant's Objections to March 16, 2012 Data Requests. Dated April 6, 2012.
- Applicant's Notice regarding Staff's March 16, 2012 Data Requests. Dated May 29, 2012.
- Applicant's Response to California Energy Commission Staff's Data Requests #51-55. Dated June 6, 2012.
- Staff's Data Requests, A1 through A123. Dated July 20, 2012.
- Sierra Club's Data Requests Set No 1. Posted August 3, 2012.
- Staff's Data Requests, A124 Through A180. Dated September 6, 2012.
- Applicant's Objections and Requests for Additional Time to Respond to Sierra Clubs Data Requests Set #1. Posted: September 18, 2012.
- Applicants Responses to Sierra Club Data Requests #1. Posted: September 18, 2012.
- Transmittal Letter regarding Applicants Responses to CEC Data Requests Set 1. Posted: September 18, 2012.
- Applicants Responses to CEC Data Requests Set One (30 -Day Extension). Posted: September 24, 2012.

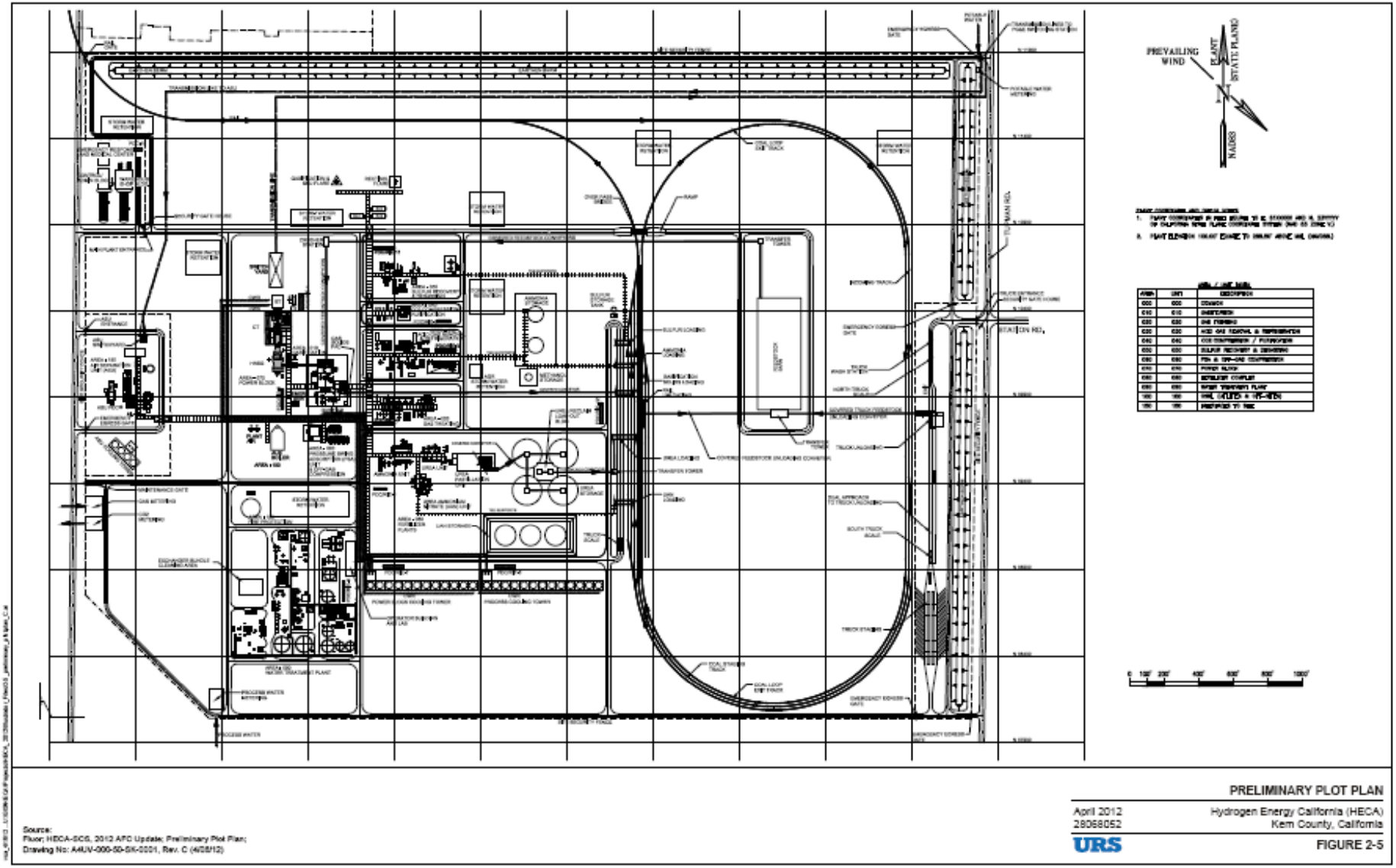
PROJECT SITE: PROJECT RENDERING

April 2012
28068052

Hydrogen Energy California (HECA)
Kern County, California

URS

FIGURE 2-2



PRELIMINARY PLOT PLAN

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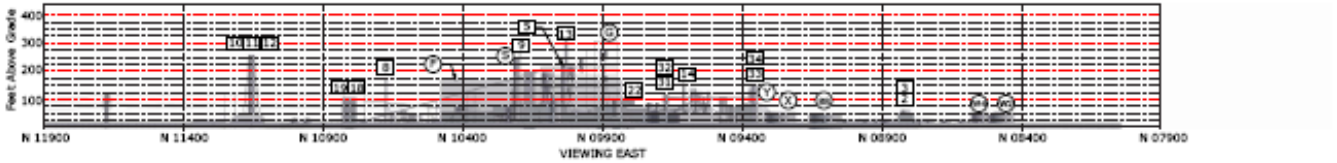
FIGURE 2-5

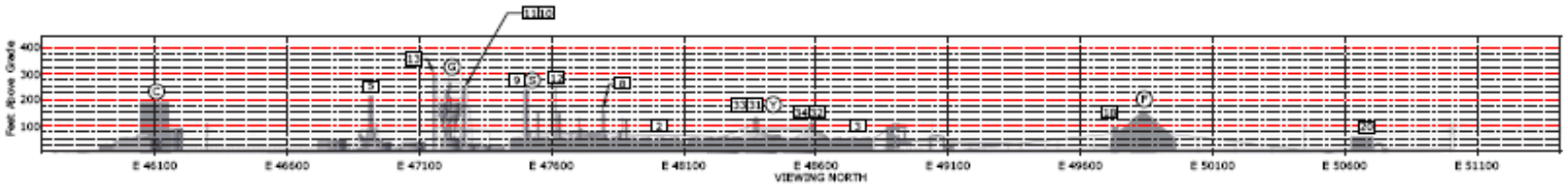
Source:
Plot: HECA-SCS, 2012 AFC Update; Preliminary Plot Plan;
Drawing No: A4UV-000-50-SK-0001, Rev. C (4/25/12)

Notes:
1) Identifiers are same as shown in Figure 2-36, Preliminary Emissions Sources Plot Plan

COORDINATE AND DATUM NOTES

1. COORDINATES IN FEET EQUATE TO PLANT CORDINATES SHOWN ON FIGURE 2-36 PRELIMINARY EMMISSIONS SOURCES PLOT PLAN
2. PLANT ELEVATION 100.00' EQUATE TO 288.50' ABOVE MSL (NAVD88.)
3. ACCURACY/TOLERANCE OF EMISSION POINT(S) COORDINATES ARE WITHIN A 50 FOOT RADIUS OF SOURCE POINT NOTED.
4. LOCATION OF EMISSION POINTS ARE SUBJECT TO COMPLETION OF DETAILED DESIGN BY LICENSORS AND EQUIPMENT SUPPLIERS.
5. SEE SHEETS 2 THROUGH 9 FOR INFORMATION ON COMPOSITION AND FLOW RATE FROM EACH SOURCE.
6. EMISSION POINT IS SHOWN FOR INFORMATION ONLY. ZERO EMISSIONS ARE EXPECTED DURING STEADY STATE OPERATION.





Notes:
1) Identifiers are same as shown in Figure 2-36, Preliminary Emissions Sources Plot Plan

PROJECT ELEVATIONS

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Kern County, California

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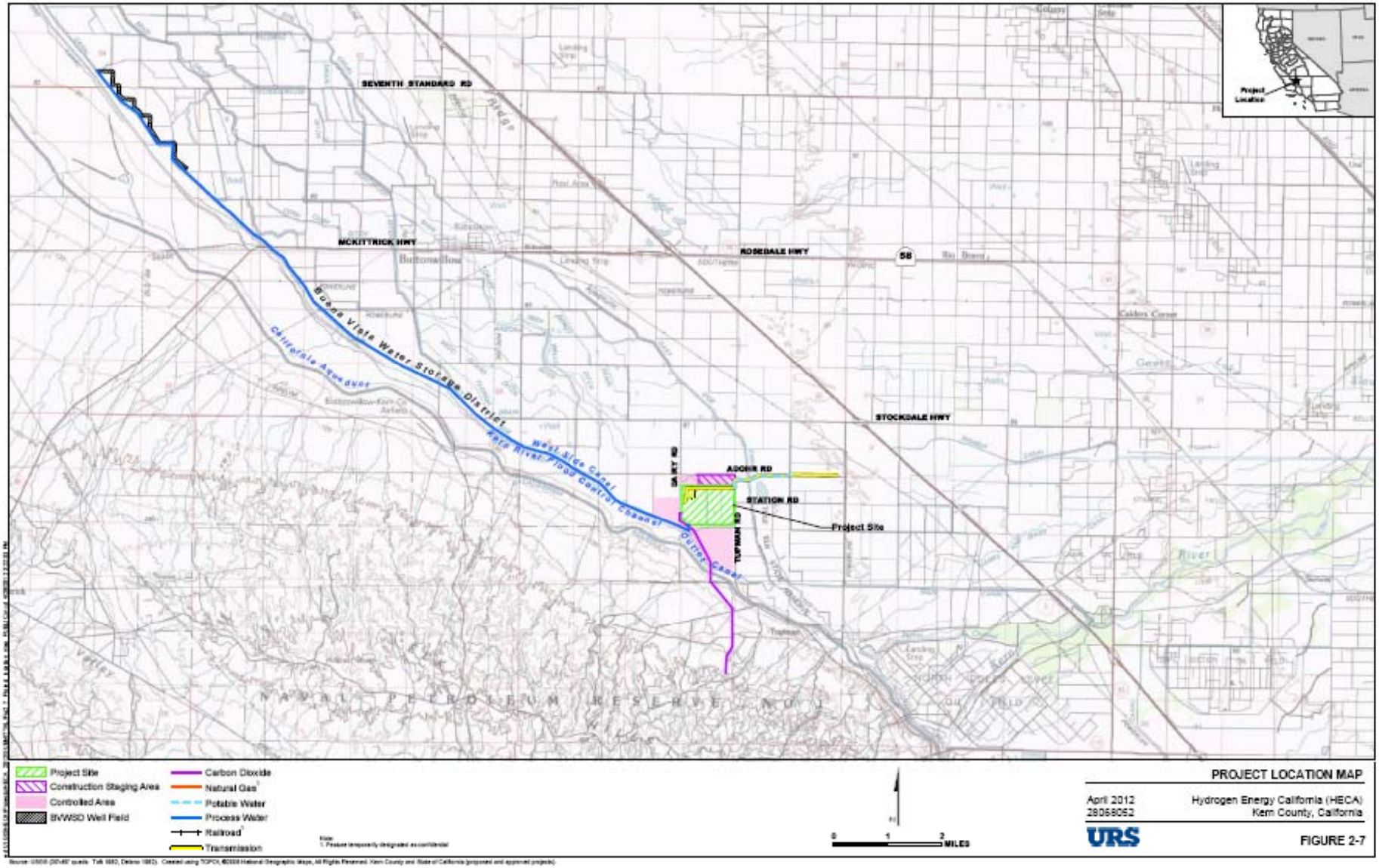
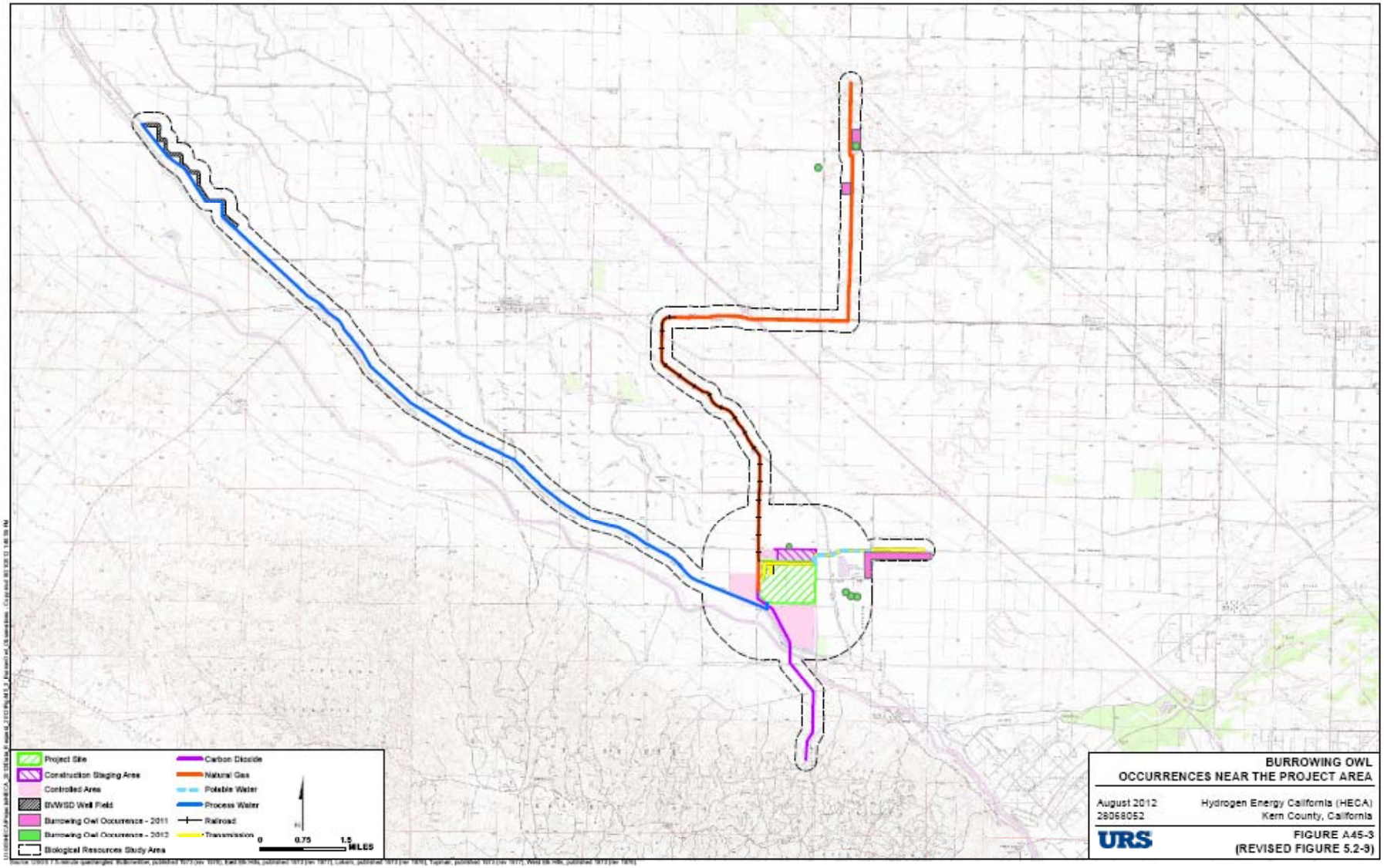
FIGURE 2-6


SEVENTH STANDARD RD
MCKITTRICK HWY
ROSEDALE HWY
58
STOCKDALE HWY
ADOBE RD
STATION RD
OILFIELD RD
TUPMAN RD
Project Site
Buena Vista Water Storage District
California Aqueduct
West Side Canal
Kern River Flood Control Channel
Outlet Canal
NAVAL PETROLEUM RESERVE NO. 1
Project Location
Project Site
Construction Staging Area
Controlled Area
BVWSD Well Field
Carbon Dioxide
Natural Gas[1]
Potable Water
Process Water
Railroad[1]
Transmission
Note:
1. Feature temporarily designated as confidential
0
1
2
MILES
PROJECT LOCATION MAP
April 2012
28066052
Hydrogen Energy California (HECA)
Kern County, California
URS
FIGURE 2-7



BURROWING OWL
OCCURRENCES NEAR THE PROJECT AREA

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28058052

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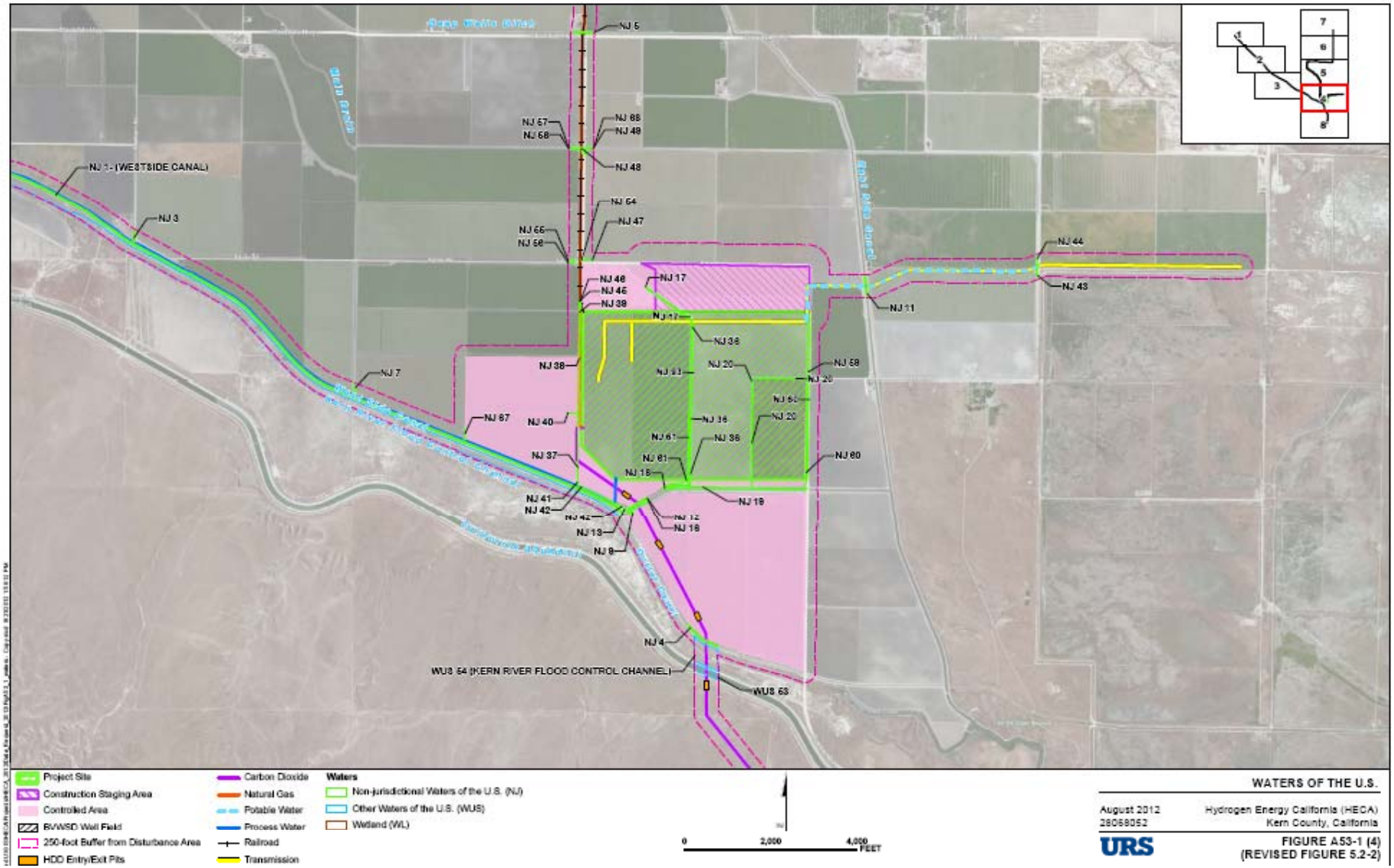
FIGURE A45-3
(REVISED FIGURE 5.2-9)



WATERS OF THE U.S.

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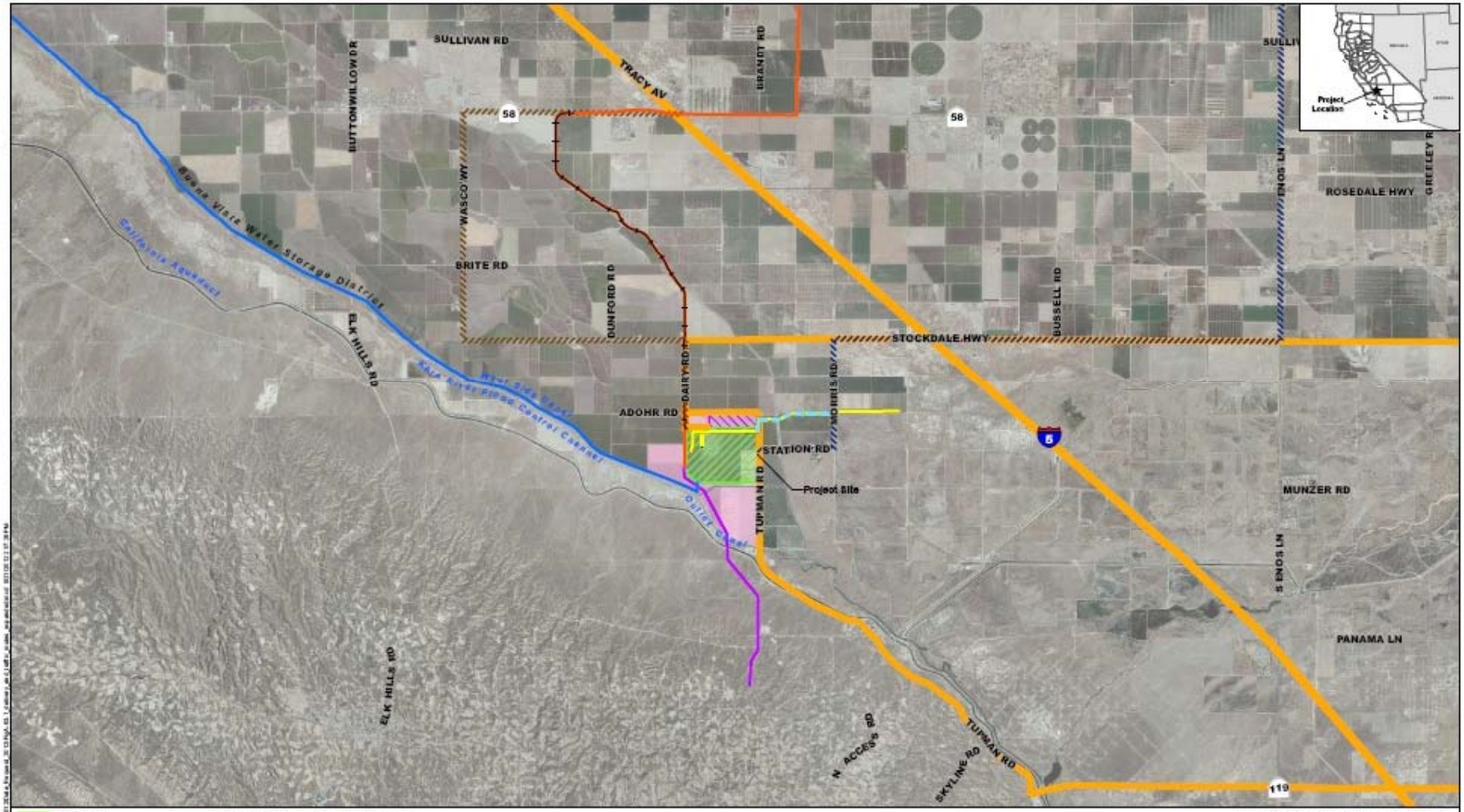
FIGURE A53-1 (4)
(REVISED FIGURE 5.2-2)



DELIVERY AND TRAFFIC ROUTES

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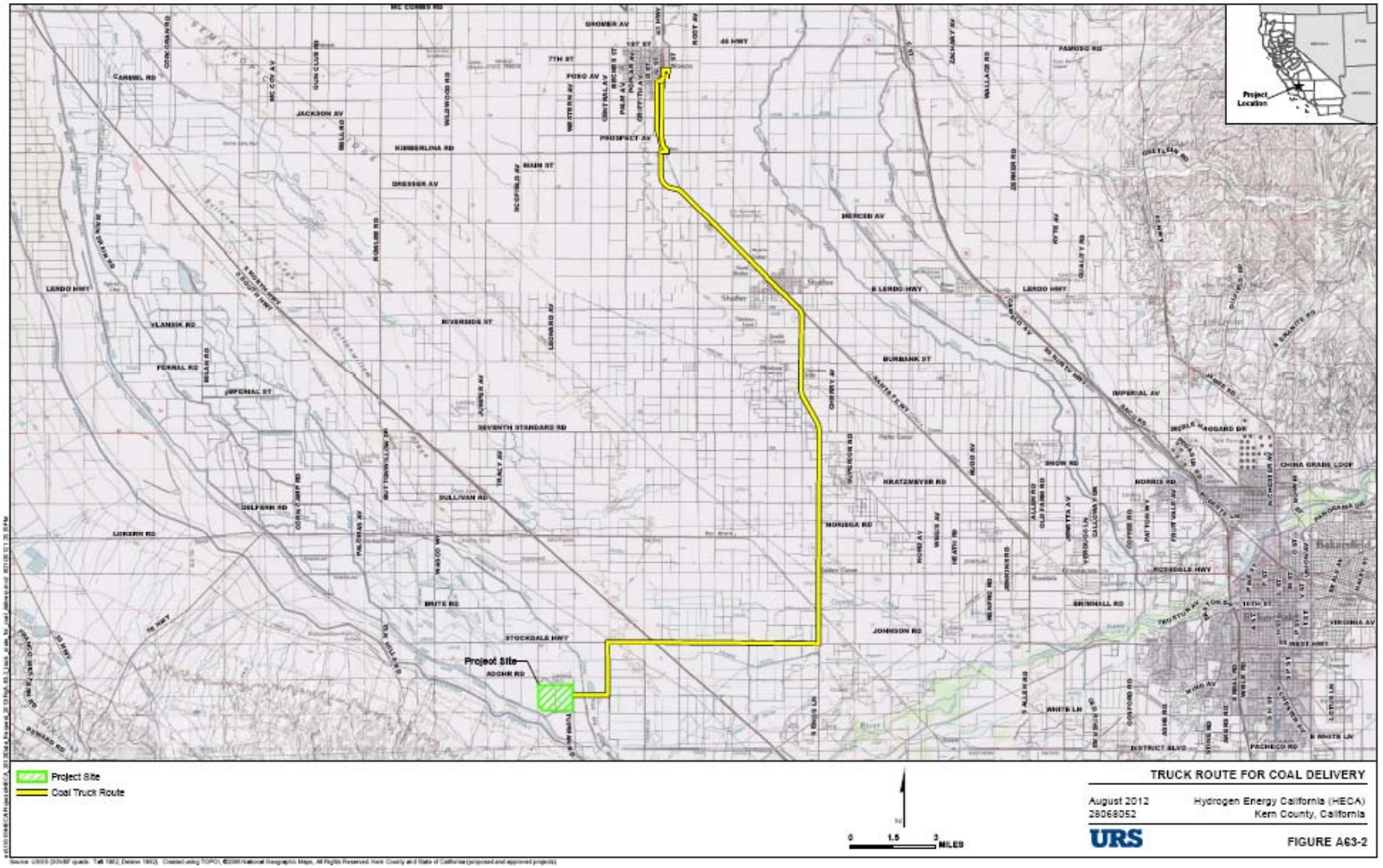
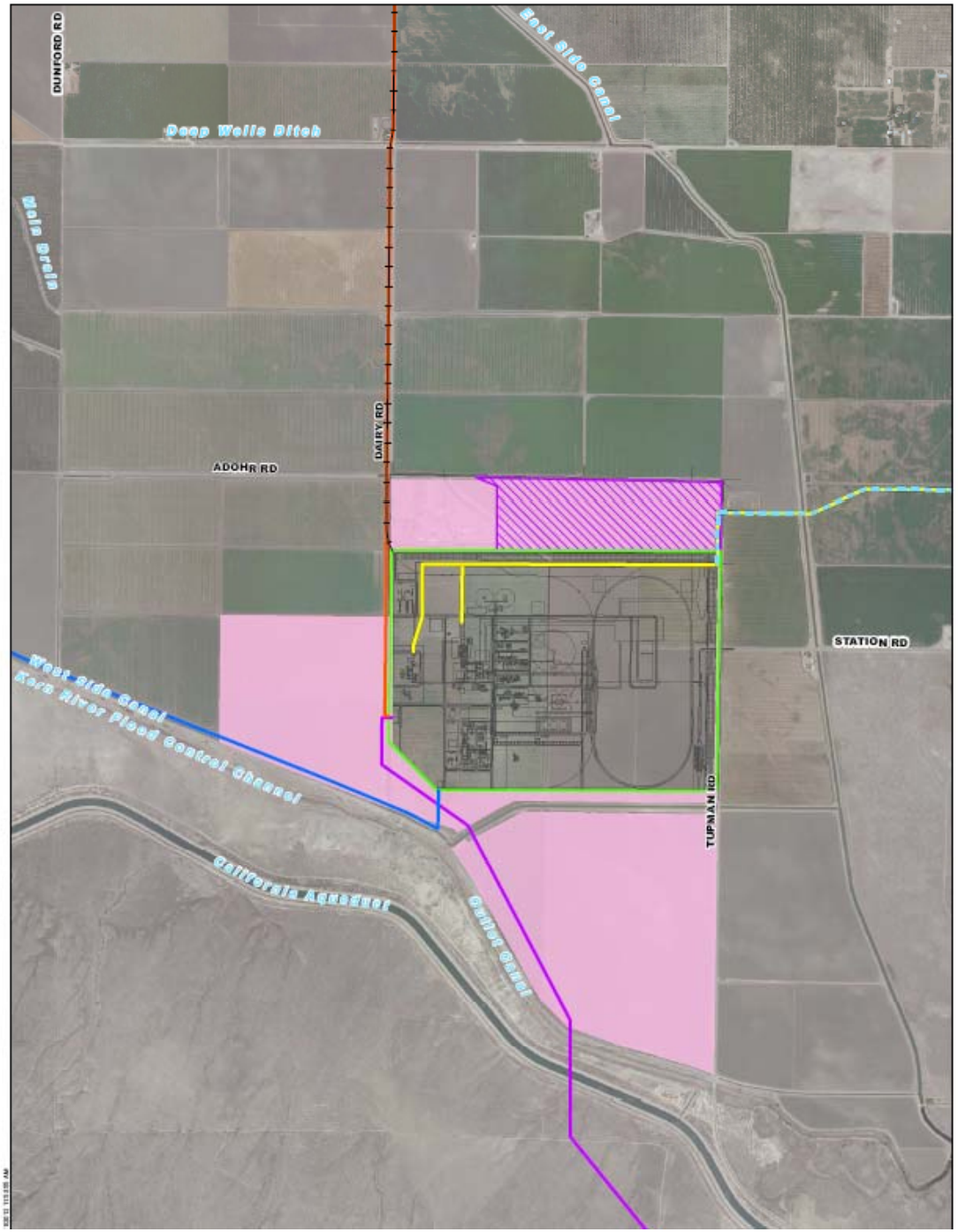
FIGURE A63-1


Project Location
Project Site
Coal Truck Route
0 1.5 3 MILES
TRUCK ROUTE FOR COAL DELIVERY
August 2012
28068052
Hydrogen Energy California (HECA)
Kern County, California
URS
FIGURE A63-2


DUNFORD RD
Deep Wells Ditch
East Side Canal
Main Drain
DAIRY RD
ADOHR RD
STATION RD
West Side Canal
Kern River Flood Control Channel
TUPMAN RD
California Aqueduct
Buena Canal

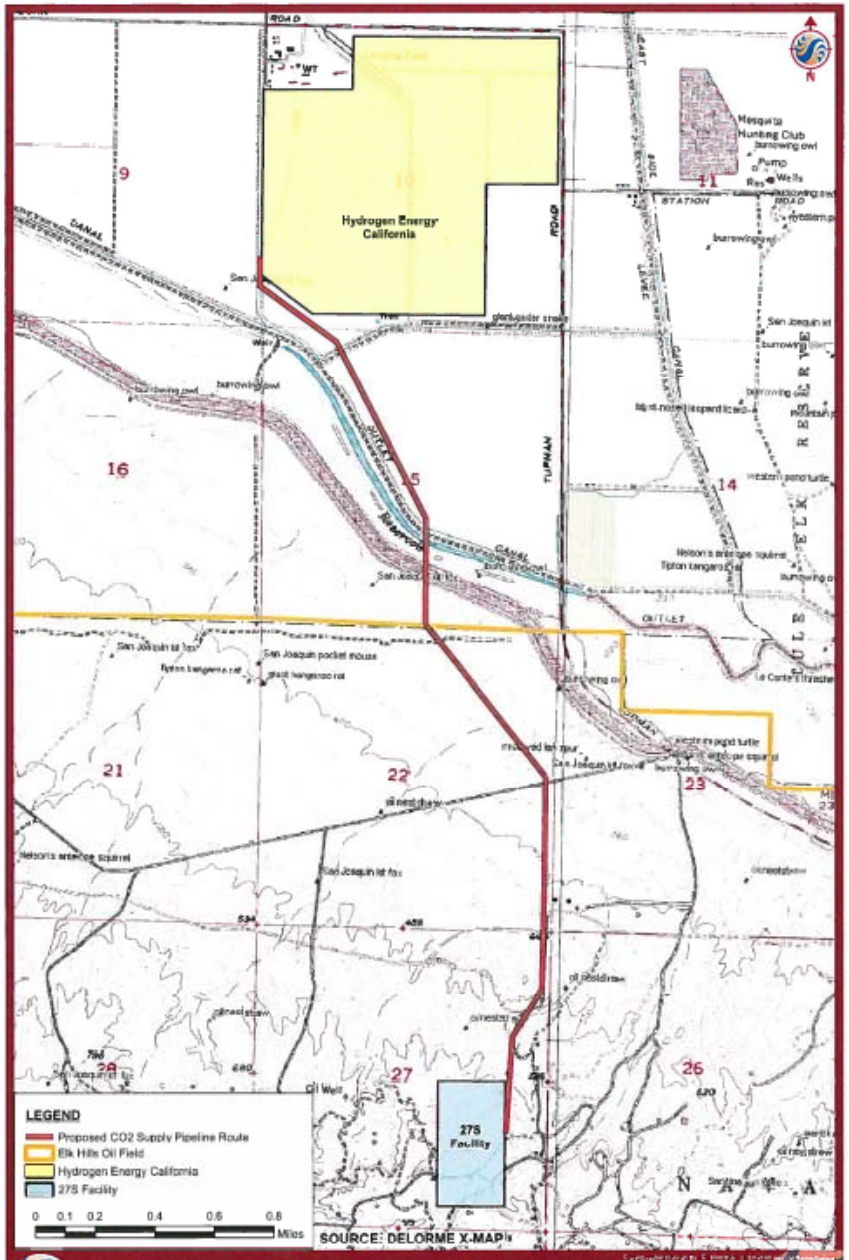
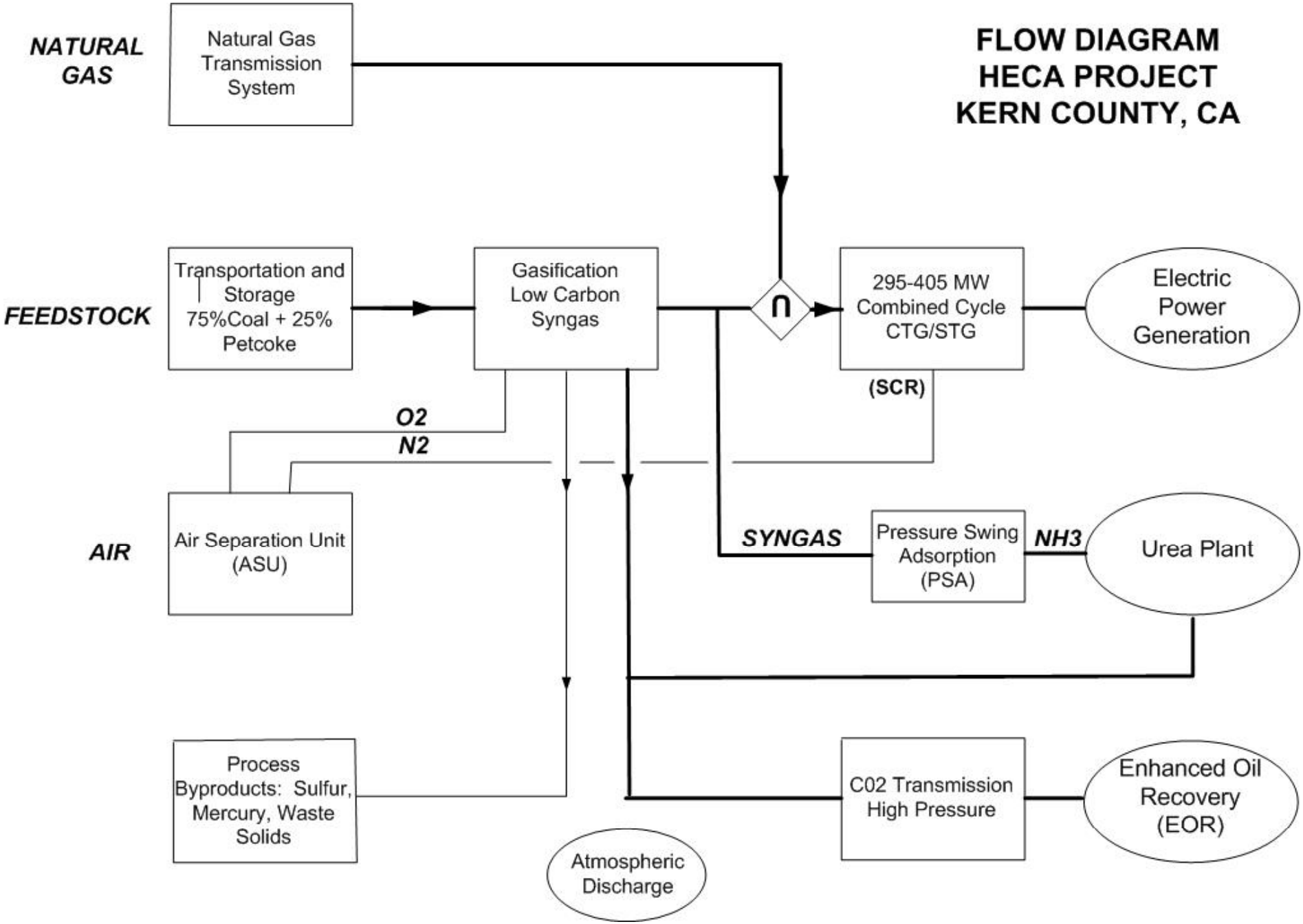


Figure 3
California Natural Diversity Database Map
DEHI CO2 EOR Project - Supplemental Environmental Assessment


FLOW DIAGRAM
HECA PROJECT
KERN COUNTY, CA
NATURAL GAS
Natural Gas Transmission System
FEEDSTOCK
Transportation and Storage 75%Coal + 25% Petcoke
Gasification Low Carbon Syngas
295-405 MW Combined Cycle CTG/STG
Electric Power Generation
(SCR)
O2
N2
AIR
Air Separation Unit (ASU)
SYNGAS
Pressure Swing Adsorption (PSA)
NH3
Urea Plant
Process Byproducts: Sulfur, Mercury, Waste Solids
Atmospheric Discharge
C02 Transmission High Pressure
Enhanced Oil Recovery (EOR)