

Central Valley Regional Water Quality Control Board

10 August 2016

Daniel Sanchez
Water Quality Manager
Pacific Gas and Electric Company
6111 Bollinger Canyon Road, 3rd Floor, 3140C
San Ramon, CA 94583

CERTIFIED MAIL
91 7199 9991 7035 8420 0865

NOTICE OF APPLICABILITY (NOA); LIMITED THREAT GENERAL WASTE DISCHARGE REQUIREMENTS ORDER R5-2013-0073-01; PG&E LINE 407, R-300, PHASE 2 NATURAL GAS PIPELINE PROJECT, SUTTER AND YOLO COUNTIES

Our office received a Report of Waste Discharge application on 10 March 2016 from Pacific Gas and Electric Company (hereinafter Discharger), for discharge of treated groundwater to surface water. Based on the application packet and subsequent information submitted by the Discharger, staff has determined that the project meets the required conditions for approval under the General Order for Limited Threat Discharges of Treated/Untreated Groundwater from Cleanup Sites, Wastewater from Superchlorination Projects, and Other Limited Threat Wastewaters to Surface Water (Limited Threat General Order). This project is hereby assigned Limited Threat General Order R5-2013-0073-047 and National Pollutant Discharge Elimination System (NPDES) Permit No. CAG995002. Please reference your Limited Threat General Order number, **R5-2013-0073-047**, in your correspondence and submitted documents.

The enclosed Limited Threat General Order may also be viewed at the following web address: http://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/general_orders/r5-2013-0073-01.pdf. You are urged to familiarize yourself with the contents of the entire document. The Limited Threat General Order prescribes mandatory discharge monitoring and reporting requirements. The project activities shall be operated in accordance with the requirements contained in this NOA and the Limited Threat General Order.

CALIFORNIA TOXICS RULE / STATE IMPLEMENTATION POLICY MONITORING

The Limited Threat General Order incorporates the requirements of the California Toxics Rule (CTR) and the State Water Resources Control Board's (State Water Board), *Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California*, 2005, also known as the State Implementation Policy (SIP). Screening levels for CTR and other constituents of concern are found in Attachment B of the Limited Threat General Order. Review of your influent water quality data in comparison to the screening values, showed reasonable potential for the discharge to cause or contribute to an exceedance of water quality objectives in the receiving waters for selenium. The Limited Threat General Order contains effluent limitations for selenium, which are also contained in this NOA. However, your proposed treatment system addresses the water quality concern by reducing selenium concentrations below water quality objectives; therefore, the Project qualifies for the Limited Threat General Order.

Knight's Landing Ridge Cut and Tule Canal are listed on the Clean Water Act 303(d) List of impaired water bodies. Knight's Landing Ridge Cut is listed for boron, dissolved oxygen, and salinity. Tule Canal is listed for boron, Escherichia coliform organisms, fecal coliform organisms, and salinity. However, Total Maximum Daily Loads (TMDLs) have not yet been established for these receiving waters and constituents. Therefore, no additional 303(d) based effluent limitations or monitoring requirements are included in this NOA (R5-2013-0073-01-047) for discharges to these water bodies.

PROJECT DESCRIPTION

The Discharger is replacing approximately 72,280 feet (13.7 miles) of natural gas pipeline for Line 407 with new 30-inch line to improve operability of its natural gas transmission pipelines. The Project is planned to proceed as follows:

- 1) Western end of the Project begins approximately half a mile west of County Road 98.
- 2) The Project then proceeds east to County Road 98,
- 3) Then south along County Road 98 for 150 feet,
- 4) Then east along County Road 16A for approximately one mile,
- 5) Then south along County Road 99A for approximately half a mile.
- 6) Then east along County Road 17 where it crosses under the Knights Landing Ridge Cut,
- 7) Then continuing east through agricultural fields, where it will cross beneath the Tule Canal and continues east through agricultural fields for about nine miles,
- 8) Then the Project continues north along an irrigation ditch for about a mile,
- 9) Followed by proceeding east along County Road 16 for about one and quarter miles and then crossing under the Sacramento River.
- 10) The Project continues on the east side of the Sacramento River to Riego Road, continues parallel to it for approximately one mile.
- 11) The Project terminates at the northeast corner of the intersection of Riego Road and Power Line Road.

Please see Attachment A for a figure depicting the locations of all 14 discharge locations and the proposed location of 13.7 miles of natural gas pipeline installation described above.

The new pipeline will be installed using open trench installation techniques, jack and bore pits, and horizontal direction drilling. The Discharger is also applying to discharge to land under Statewide General Order 2003-0003-DWQ. It is anticipated that the dewatering of the bore pit excavations and trenches to surface water will be necessary if there is not enough capacity to discharge to land. The estimated flow rate is approximately 0.15 to 1.6 million gallons per day depending on the discharge location. It is anticipated that dewatering will begin on or after the issuance of the NOA and may be required intermittently until 1 January 2017 to complete construction.

The Discharger will place sediment screens in the dewatering wells or in the bottom of the trench to limit soil particulates in the excavation groundwater. The groundwater will then be conveyed via temporary PVC pipeline to a series of settling tanks staged as needed along the pipeline alignment to allow for sedimentation. Settled groundwater will be pumped through green sand particulate filters and then activated carbon filtration. Organically modified zeolite or another specialized media will be used as the final unit process for trace metals and selenium removal.

Due to the length of the project, fourteen surface water discharge points (EFF-001 through EFF-014) will be necessary. The two discharge locations in Sutter County, on the North Drainage Canal, will discharge to the Sacramento River. The twelve discharge locations in Yolo County on various irrigation channels will discharge to Knight's Landing Ridge Cut and Tule Canal, which eventually discharge to

the Sacramento River. The discharge locations are listed in Table E-1 below and Attachment A to this NOA is a schematic of the pipeline location showing the discharge points and monitoring points.

EFFLUENT LIMITATIONS

Effluent limitations are specified in Section V, Effluent Limitations and Discharge Specifications, of the Limited Threat General Order. The following effluent limitations are applicable to this discharge and are contained in Section V. A and B of the Limited Threat General Order:

A. Effluent Limitations – Applicable to All Limited Threat Discharges

1. Priority Pollutants and Constituents of Concern

Parameter	Units	Effluent Limitations	
		Average Monthly	Maximum Daily
Selenium	µg/L	4.1	8.2

2. Acute Whole Effluent Toxicity. Survival of aquatic organisms in 96-hour bioassays of undiluted waste for all limited threat discharges shall be no less than:

- a. 70%, minimum for any one bioassay; and
- b. 90%, median for any three consecutive bioassays.

B. Effluent Limitations – Limited Threat Discharge to Specific Waterbodies

4. The pH of all limited threat discharges within the Sacramento and San Joaquin River Basins (except Goose Lake) shall at all times be within the range of 6.5 and 8.5.

MONITORING AND REPORTING

Monitoring and reporting requirements are contained in Attachment E of the Limited Threat General Order. The Discharger is required to comply with the following specific monitoring and reporting requirements for the effluent in accordance with Attachment E of the Limited Threat General Order.

Monitoring Locations – The Discharger shall monitor the effluent and receiving water at the specified locations and report the dates, times, and discharge volumes, at each location in the monitoring reports, as follows:

Table E-1. Monitoring Station Locations

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
001	EFF-001	A location where a representative sample of the effluent can be collected prior to discharging to Irrigation Channel to Knight's Landing Ridge Cut (38° 44' 6.30" N, 121° 45' 1.67" W) APN 027-280-005, Yolo County.

002	EFF-002	A location where a representative sample of the effluent can be collected prior to discharging to Irrigation Channel to Knight's Landing Ridge Cut (38° 44' 5.01" N, 121° 42' 38.69" W) APN 057-080-001, Yolo County.
003	EFF-003	A location where a representative sample of the effluent can be collected prior to discharging to Irrigation Channel to Knight's Landing Ridge Cut (38° 44' 6.73" N, 121° 41' 4.02" W) APN 057-080-004, Yolo County.
004	EFF-004	A location where a representative sample of the effluent can be collected prior to discharging to Irrigation Channel to Unnamed Slough to Knight's Landing Ridge Cut (38° 44' 5.01" N, 121° 40' 19.13" W) APN 057-070-003, Yolo County.
005	EFF-005	A location where a representative sample of the effluent can be collected prior to discharging to Irrigation Channel to Unnamed Slough to Knight's Landing Ridge Cut (38° 44' 4.34" N, 121° 39' 39.98" W) APN 057-070-002, Yolo County.
006	EFF-006	A location where a representative sample of the effluent can be collected prior to discharging to Irrigation Channel to Unnamed Slough to Knight's Landing Ridge Cut (38° 44' 5.52" N, 121° 39' 32.89" W) APN 057-100-016, Yolo County.
007	EFF-007	A location where a representative sample of the effluent can be collected prior to discharging to Irrigation Channel to Tule Canal (38° 44' 8.68" N, 121° 37' 59.70" W) APN 057-060-011, Yolo County.
008	EFF-008	A location where a representative sample of the effluent can be collected prior to discharging to Tule Canal (38° 44' 5.47" N, 121° 37' 59.59" W) APN 057-060-011, Yolo County.
009	EFF-009	A location where a representative sample of the effluent can be collected prior to discharging to Irrigation Channel to Tule Canal (38° 44' 10.86" N, 121° 37' 9.51" W) APN 057-060-011, Yolo County.
010	EFF-010	A location where a representative sample of the effluent can be collected prior to discharging to Irrigation Channel to Tule Canal (38° 44' 30.05" N, 121° 37' 9.55" W) APN 057-060—005, Yolo County.
011	EFF-011	A location where a representative sample of the effluent can be collected prior to discharging to Irrigation Channel to Tule Canal (38° 44' 41.47" N, 121° 37' 9.50" W) APN 057-060-003, Yolo County.

012	EFF-012	A location where a representative sample of the effluent can be collected prior to discharging to Irrigation Channel to Tule Canal (38° 44' 56.62" N, 121° 37' 4.29" W) APN 057-050-002, Yolo County.
013	EFF-013	A location where a representative sample of the effluent can be collected prior to discharging to North Drainage Canal to Sacramento River (38° 44' 58.18" N, 121° 34' 51.24" W) Sutter County.
014	EFF-014	A location where a representative sample of the effluent can be collected prior to discharging to North Drainage Canal to Sacramento River (38° 44' 58.98" N, 121° 34' 35.23" W) Sutter County.
001	RSW-001U	Receiving Water, approximately 50 feet upstream from the point of discharge for EFF-001.
001	RSW-001D	Receiving Water, approximately 50 feet downstream from the point of discharge for EFF-001.
002	RSW-002U	Receiving Water, approximately 50 feet upstream from the point of discharge for EFF-002.
002	RSW-002D	Receiving Water, approximately 50 feet downstream from the point of discharge for EFF-002.
003	RSW-003U	Receiving Water, approximately 50 feet upstream from the point of discharge for EFF-003.
003	RSW-003D	Receiving Water, approximately 50 feet downstream from the point of discharge for EFF-003.
004	RSW-004U	Receiving Water, approximately 50 feet upstream from the point of discharge for EFF-004.
004	RSW-004D	Receiving Water, approximately 50 feet downstream from the point of discharge for EFF-004.
005	RSW-005U	Receiving Water, approximately 50 feet upstream from the point of discharge for EFF-005.
005	RSW-005D	Receiving Water, approximately 50 feet downstream from the point of discharge for EFF-005.
006	RSW-006U	Receiving Water, approximately 50 feet upstream from the point of discharge for EFF-006.
006	RSW-006D	Receiving Water, approximately 50 feet downstream from the point of discharge for EFF-006.
007	RSW-007U	Receiving Water, approximately 50 feet upstream from the point of discharge for EFF-007.
007	RSW-007D	Receiving Water, approximately 50 feet downstream from the point of discharge for EFF-007.

008	RSW-008U	Receiving Water, approximately 50 feet upstream from the point of discharge for EFF-008.
008	RSW-008D	Receiving Water, approximately 50 feet downstream from the point of discharge for EFF-008.
009	RSW-009U	Receiving Water, approximately 50 feet upstream from the point of discharge for EFF-009.
009	RSW-009D	Receiving Water, approximately 50 feet downstream from the point of discharge for EFF-009.
010	RSW-0010U	Receiving Water, approximately 50 feet upstream from the point of discharge for EFF-010.
010	RSW-0010D	Receiving Water, approximately 50 feet downstream from the point of discharge for EFF-010.
011	RSW-0011U	Receiving Water, approximately 50 feet upstream from the point of discharge for EFF-011.
011	RSW-0011D	Receiving Water, approximately 50 feet downstream from the point of discharge for EFF-011.
012	RSW-0012U	Receiving Water, approximately 50 feet upstream from the point of discharge for EFF-012.
012	RSW-0012D	Receiving Water, approximately 50 feet downstream from the point of discharge for EFF-012.
013	RSW-0013U	Receiving Water, approximately 50 feet upstream from the point of discharge for EFF-013.
013	RSW-0013D	Receiving Water, approximately 50 feet downstream from the point of discharge for EFF-013.
014	RSW-0014U	Receiving Water, approximately 50 feet upstream from the point of discharge for EFF-014.
014	RSW-0014D	Receiving Water, approximately 50 feet downstream from the point of discharge for EFF-014.

Effluent Monitoring – When discharging to surface water, the Discharger shall monitor the effluent at EFF-001 through EFF-014, as appropriate, as follows:

Table E-2. Effluent Monitoring

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Total Flow	MGD	Estimate	1/Day	1,2
Electrical Conductivity @ 25 °C	µmhos/cm	Grab	2/Month	1,2
pH	standard units	Grab	2/Month	1,2
Dissolved Oxygen	mg/L	Grab	2/Month	1,2
Chlorine, Total Residual	mg/L	Grab	1/Discharge Event	1,2,7
Hardness, Total (as CaCO ₃)	mg/L	Grab	2/Month	1,2

Selenium	µg/L	Grab	2/Month	1
Acute Toxicity	% survival	Grab	1/Project Term ³	--

- ¹ Pollutants shall be analyzed using the analytical methods described in 40 CFR Part 136 or by methods approved by the Central Valley Water Board or the State Water Board.
- ² For priority pollutant constituents without effluent limitations, the detection limits shall be equal to or less than the lowest ML published in Appendix 4 of the SIP. A hand-held field meter may be used, provided the meter utilizes a USEPA-approved algorithm/method and is calibrated and maintained in accordance with the manufacturer's instructions. A calibration and maintenance log for each meter used for monitoring required by this Monitoring and Reporting Program shall be maintained at the Facility.
- ³ Acute toxicity testing shall be conducted within 3 months of initiation of discharge and shall be analyzed using EPA-821-R-02-012, Fifth Edition. The test species shall be fathead minnows (*Pimephales promelas*).
- ⁷ Total chlorine residual must be monitored with a method sensitive to and accurate at a reporting level of 0.08 mg/L.

Receiving Water Monitoring - When discharging to surface water, the Discharger shall monitor the receiving water at RSW-001U and RSW-001D through RSW-014U and RSW-014D, as appropriate, as follows:

Table E-3. Receiving Water Monitoring Requirements

Parameter	Units	Sample Type	Monitoring Frequency	Required Analytical Test Method
Dissolved Oxygen	mg/L	Grab	2/Month	^{1,3}
Hardness	mg/L	Grab	2/Month	^{1,3}
pH	standard units	Grab	2/Month	^{1,3}

- ¹ Pollutants shall be analyzed using the analytical methods described in 40 CFR Part 136 or by methods approved by the Central Valley Water Board or the State Water Board.
- ³ A hand-held field meter may be used, provided the meter utilizes a USEPA-approved algorithm/method and is calibrated and maintained in accordance with the manufacturer's instructions. A calibration and maintenance log for each meter used for monitoring required by this Monitoring and Reporting Program shall be maintained at the Facility.

Monitoring Report Submittals - Monitoring in accordance with the Limited Threat General Order shall begin upon initiation of discharge. The Discharger shall identify the discharge dates, times, locations, and discharge volumes in the monitoring reports. Monitoring reports shall be submitted to the Central Valley Water Board on a quarterly basis, beginning with the Third Quarter 2016. This report shall be submitted by 1 November 2016. If monitoring samples were not obtained within 24 hours of initiation of the discharge, the Discharger must document the reasons in the corresponding monitoring report. If the discharge has not begun there is no need to monitor. However, a monitoring report must be submitted stating that there has been no discharge. Table E-4, below, summarizes the monitoring report due dates required under the Limited Threat General Order. Quarterly monitoring reports must be submitted until your coverage is formally terminated in accordance with the Limited Threat General Order, even if there is no discharge during the reporting quarter.

Table E-4. Monitoring Periods and Reporting Schedule

Sampling Frequency	Monitoring Period Begins On...	Quarterly Report Due Date
1/Day, 1/Week, 1/Month, 2/Month, 1/Quarter	1 st Day of Discharge	1 May (1 Jan – 31 Mar) 1 Aug (1 Apr – 30 Jun) 1 Nov (1 Jul – 30 Sep) 1 Feb, of following year (1 Oct – 31 Dec)

GENERAL INFORMATION AND REQUIREMENTS

The Discharger must notify Central Valley Water Board staff within 24 hours of having knowledge of 1) the start of each new discharge, 2) noncompliance, and 3) when the discharge ceases. The Central Valley Water Board shall be notified immediately if any effluent limit violation is observed during implementation of the project.

Discharge of material other than what is described in the application is prohibited. The required annual fee (as specified in the annual billing you will receive from the State Water Resources Control Board) shall be submitted until this NOA is officially terminated. You must notify this office in writing when the discharge regulated by the Limited Threat General Order is no longer necessary. If a timely written request is not received, the Discharger will be required to pay additional annual fees as determined by the State Water Resources Control Board.

ENFORCEMENT

Failure to comply with the Limited Threat General Order may result in enforcement actions, which could include civil liability. Effluent limitation violations are subject to a Mandatory Minimum Penalty (MMP) of \$3,000 per violation. In addition, late monitoring reports may be subject to MMPs or discretionary penalties of up to \$1,000 per day late. When discharges do not occur during a quarterly report monitoring period, the Discharger must still submit a quarterly monitoring report indicating that no discharge occurred to avoid being subject to enforcement actions.

COMMUNICATION

Now that your NOA has been approved, the Board's Compliance and Enforcement section will take over management of your case. Genevieve Sparks is your point of contact for any questions about your NOA. If you find it necessary to make a change to your permitted operations, Ms. Sparks will direct you to the appropriate Permitting staff. You may contact Ms. Sparks at (916) 464-4821 or Genevieve.Sparks@waterboards.ca.gov.

All documents, including monitoring reports, response to inspections, written notifications, and documents submitted to comply with this NOA and the Limited Threat General Order, should be submitted to the NPDES Compliance unit. We are transitioning to a paperless office, therefore, please convert all documents to a searchable Portable Document Format (pdf) and email them to centralvalleysacramento@waterboards.ca.gov. Please also include the Discharger name, facility name, county, and CIWQS Place ID# 822973 in the body of the email. Documents that are 50 megabytes or larger must be transferred to a DVD, or flash drive and mailed to our office, attention "ECM Mailroom-NPDES". Please include the attached Monitoring Report Transmittal Form as the first page of each monitoring report.

Any person aggrieved by this action of the Central Valley Water Board may petition the State Water Board to review the action in accordance with California Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Board must receive the petition by 5:00 pm, 30 days after the date of this NOA, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State

Daniel Sanchez
Water Quality Manager
PG&E Line 407, R-300, Phase 2 Natural Gas Pipeline Project

- 9 -

10 August 2016

Water Board by 5:00 pm. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at:
http://www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

Original Signed by Nichole Morgan for

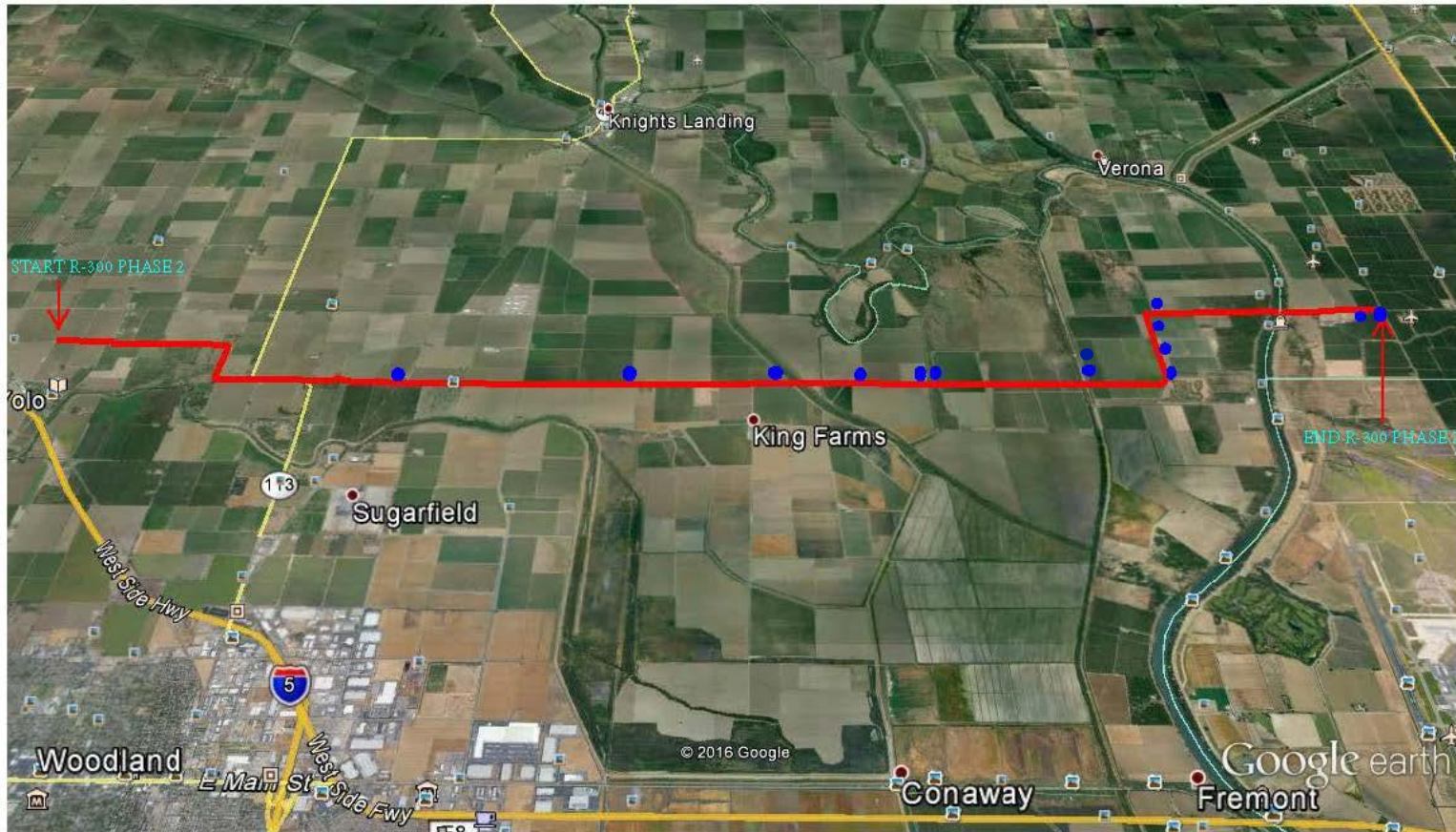
Pamela C. Creedon
Executive Officer

Enclosures: General Order R5-2013-0073-01 (Discharger only)
Monitoring Report Transmittal Form (Discharger only)

cc: David Smith, U.S. EPA, Region IX, San Francisco (email only)
Phil Isorena, Division of Water Quality, State Water Board, Sacramento (email only)

ATTACHMENT A
PG&E R-300, LINE 407 PHASE 2 NATURAL GAS PIPELINE PROJECT, YOLO AND SUTTER COUNTIES
DISCHARGE POINTS 001 THROUGH 014

PG&E R-300, Line 407 Phase 2 Natural Gas Pipeline Project
Yolo and Sutter Counties, CA



● Proposed Discharge Locations