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AERA

June 11, 2015

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JUN 16 2015
RWQCB-CVR
FRESNO, CALIF.

Ronald Holcomb
Central Valley Region
Water Quality Control Board
1685 East E Street
Fresno, CA 93706

SUBJECT: INFORMATION REQUESTED BY SECTION 13267 ORDER
LOST HILLS OIL FIELD

Dear Mr. Holcomb:

In a letter dated April 1, 2015, the Regional Water Quality Control Board (RWQCB) requested laboratory analyses of locations previously identified by RWQCB staff and an inventory of other potential discharge locations not previously identified. The attached report prepared by Amec Foster Wheeler Environment & Infrastructure, Inc. includes the requested information covering Aera Energy LLC's (Aera) operations within the Lost Hills Oil Field.

Aera has provided as much information as possible within the short timeframe specified by the RWQCB. Existing equipment databases were queried and experienced personnel were engaged to prepare the inventory. Even taking into account these measures, it is possible that some minor discharge locations were overlooked.

In addition, Aera continues to install new or modify existing equipment that could be classified as a potential discharge point. Pressure relief valves are needed to protect personnel and equipment from catastrophic failures or a new steam injection well, approved by the Division of Oil, Gas and Geothermal Resources, may be drilled to support existing operations. Aera understands that the RWQCB is re-evaluating the regulatory framework that encompasses this type of equipment. When the evaluation is complete, the attached report may need to be supplemented to include added discharge locations or delete locations that have been abandoned.

The sampling of the fluids has been proceeding expeditiously. However, many of the locations do not contain fluids or sufficient fluids to collect the required samples. Where fluids are available, extensive safety planning must be implemented in order to ensure

the well-being of the personnel performing the work. Further, some of the laboratory methods requested by the RQWCB take several weeks to complete. Accordingly, laboratory analytical results will be submitted as they are received by Aera.

If you have any questions or require additional information, please contact Ron Chambers at (661) 665-5641 or John Haley at (661) 665-5279.

CERTIFICATION:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

W. D. Anderson
Vice President
Belridge Asset

cc: Ron Chambers, Aera
John Haley, Aera
William Pipes, Amec
Alex Olsen, Amec

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June 11, 2015

Project FR15160780

Mr. John Haley
Aera Energy LLC
10000 Ming Avenue
Bakersfield, California 93311

Subject: **Technical Report – Potential Discharges to Land, Lost Hills Oil Field**
Aera Energy LLC, Kern County, California

Dear Mr. Haley:

Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), is pleased to provide this technical report to Aera Energy LLC (Aera), presenting the sampling and analytical results for the recent review of potential discharges to land conducted at the Lost Hills Oil Field in Kern County, California. The sampling was conducted to comply with the Central Valley Regional Water Quality Control Board's (RWQCB) Section 13267 Order (Order) dated April 1, 2015 (Appendix A). The Order requested that potential discharges of wastewater to land be identified and where possible analytical results of wastewater samples collected be submitted in a technical report to the RWQCB by June 15, 2015.

DISCHARGE LOCATIONS

The RWQCB Order identified three impoundments in the Lost Hills Oil Field that are operated by Aera. In addition to the impoundments listed in the Order, Aera has identified an additional 727 potential discharge points within the Lost Hills Oil Field. An inventory list, provided by Aera, of potential discharge points with their intended use is included in Appendix B. The locations of each discharge point are shown on Figures 1 through 13 included in Appendix B.

WASTEWATER SAMPLING

Of the 730 potential discharge points identified, Aera was able to collect samples from 4. Samples could not be collected from the majority of the discharge points due to the locations being dry, the locations are only used during an emergency (i.e pressure relief valve), the discharge point was not in operation, or samples could not be collected safely (e.g. high temperatures associated with steam). Aera is in the process of collecting samples as conditions allow and evaluating the potential for collecting representative samples from the remaining locations with Amec Foster Wheeler.

The following paragraphs describe the sampling method and analysis.

Sampling Method

Wastewater samples were collected by BC Laboratories Inc. (BC Labs), of Bakersfield, California, under direct contract with Aera on May 26, 2015. Wastewater samples were collected by slowly lowering a new clean disposable bailer or a new clean dipping cup into the liquid and then decanting the sample into the appropriate containers.

Amec Foster Wheeler Environment & Infrastructure, Inc.
1281 East Alluvial Avenue, Suite 101
Fresno, California 93720-2659
USA
Tel (559) 264-2535
Fax (559) 264-7431
www.amecfw.com

Sample Analysis

The wastewater samples were delivered to BC Labs for chemical analysis. Wastewater samples were labeled with pertinent information including sample identification, the date and time the samples were collected, and the name of the individual collecting the sample. The samples collected for laboratory analysis were transported in ice-cooled chests under chain-of-custody procedures.

Samples were analyzed for the analytes listed in Attachment B of the Order. The analytes and analytical methods are summarized in Table 1.

ANALYTICAL RESULTS

Analytical results for the samples collected are summarized in Tables 2 through 5. The analytical reports and chain-of-custody documentation are provided in Appendix C. Sample BL1773 was collected on June 11, 2015. The analytical results for this sample will be submitted in an addendum to this report upon receipt of the results.

General Chemistry

General chemistry results are summarized in Table 2.

Total Metals

Total metals results are summarized in Table 3.

Radionuclides

Radionuclide analytical results are summarized in Table 4.

Volatile Organic Compounds, Polynuclear Aromatic Hydrocarbons, and Total Petroleum Hydrocarbons

The Volatile Organic Compounds (VOCs), Polynuclear Aromatic Hydrocarbons (PAHs), and Total Petroleum Hydrocarbons results are summarized in Table 5. Only the detected VOCs and PAHs are summarized in this table.

CERTIFICATION

This letter was prepared by Amec Foster Wheeler staff under the supervision of the Professional Geologist whose seal and signature appear hereon. The findings, recommendations, specifications, or professional opinions presented in this letter were prepared in accordance with generally accepted professional geologic practices and within the scope of this project. No other warranty, express or implied, is provided.

Amec Foster Wheeler is pleased to be of service to Aera. Please call if you have any questions or require additional information.

Sincerely yours,
Amec Foster Wheeler Environment & Infrastructure, Inc.

Alex O. Olsen Jr., PG
Senior Geologist

PROFESSIONAL GEOLOGIST
Alex O. Olsen
No. 8932
STATE OF CALIFORNIA

Attachments:

Table 1 – Summary of Chemical Analysis
Table 2 – Analytical Results – General Chemistry
Table 3 – Analytical Results – Total Metals
Table 4 – Analytical Results - Radionuclides
Table 5 – Analytical Results – Volatile Organic Compounds, Polynuclear Aromatic Hydrocarbons, and Total Petroleum Hydrocarbons
Appendix A – April 1, 2015, California Water Code Directive Pursuant to Section 13267
Appendix B – Inventory List and Lost Hills Potential Discharge Location Points
Appendix C – Analytical Reports and Chain-of-Custody Documentation

cc: Ron Chambers, Aera Energy LLC

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TABLE 1

SUMMARY OF CHEMICAL ANALYSIS

Aera Lost Hills Discharge Sampling
Lost Hills Oil Field, Kern County, California

Constituents	Analytical Method[1]
Volatile Organic Compounds	
Benzene	EPA-8260B
Ethylbenzene	EPA-8260B
Toluene	EPA-8260B
Total Xylenes	EPA-8260B
Polynuclear Aromatic Hydrocarbons	
Acenaphthene	EPA-8270C-SIM
Acenaphthylene	EPA-8270C-SIM
Anthracene	EPA-8270C-SIM
Benzo[a]anthracene	EPA-8270C-SIM
Benzo[b]fluoranthene	EPA-8270C-SIM
Benzo[k]fluoranthene	EPA-8270C-SIM
Benzo[a]pyrene	EPA-8270C-SIM
Benzo[g,h,i]perylene	EPA-8270C-SIM
Chrysene	EPA-8270C-SIM
Dibenzo[a,h]anthracene	EPA-8270C-SIM
Fluoranthene	EPA-8270C-SIM
Fluorene	EPA-8270C-SIM
Indeno[1,2,3-cd]pyrene	EPA-8270C-SIM
Naphthalene	EPA-8270C-SIM
Phenanthrene	EPA-8270C-SIM
Pyrene	EPA-8270C-SIM
Metals	
Total Antimony	EPA-6010B
Total Arsenic	EPA-6010B
Total Barium	EPA-6010B
Total Beryllium	EPA-6010B
Total Cadmium	EPA-6010B
Total Chromium	EPA-6010B
Total Cobalt	EPA-6010B
Total Copper	EPA-6010B
Total Lead	EPA-6010B
Total Mercury	EPA-7470A

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TABLE 1

SUMMARY OF CHEMICAL ANALYSIS

Constituents	Analytical Method[1]
Metals (continued)	
Total Molybdenum	EPA-6010B
Total Nickel	EPA-6010B
Total Selenium	EPA-6010B
Total Silver	EPA-6010B
Total Thallium	EPA-6010B
Total Vanadium	EPA-6010B
Total Zinc	EPA-6010B
Hexavalent Chromium	EPA-7196
Total Boron	EPA-6010B
Total Iron	EPA-6010B
Total Lithium	EPA-6010B
Total Strontium	EPA-6010B
Total Calcium	EPA-6010B
Total Magnesium	EPA-6010B
Total Manganese	EPA-6010B
Total Sodium	EPA-6010B
Total Potassium	EPA-6010B
Radionuclides	
Gross Alpha	EPA-00-02
Radium 226	EPA-903.1
Radium 228	EPA-904.0
Total Recoverable Uranium	EPA-200.8
General Chemistry	
Bromide	EPA-300.0
Chloride	EPA-300.0
Nitrate as NO3	EPA-300.0
Sulfate	EPA-300.0
Alkalinity	EPA-310.1
Total Dissolved Solids	EPA-160.1
Other	
Total Petroleum Hydrocarbons, Crude Oil	EPA-8015B

1. "--" = not applicable, EPA = Environmental Protection Agency, and SM = Standard Method.

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TABLE 2

ANALYTICAL RESULTS - GENERAL CHEMISTRY

Aera Lost Hills Discharge Sampling
Lost Hills Oil Field, Kern County, California

			Analyte and Result[1]								
Sample ID[2]	Discharge Location	Sample Date	Bicarbonate Alkalinity as $CaCO_3$	Carbonate Alkalinity as $CaCO_3$	Hydroxide Alkalinity as $CaCO_3$	Total Alkalinity as $CaCO_3$	Bromide	Chloride	Nitrate as NO_3	Sulfate	Total Dissolved Solids @ 180 °C
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
BL1776	Primary TVR Scrubber Drain Pot	05/26/15	250	53	ND	300	23	4,700	ND	710	9,400
BL1786	F-3009 Apron Drain Vault	05/26/15	810	ND	ND	810	21	3,900	ND	11 J	8,400
BL1794	LOGS Line Catch Basin	05/26/15	2,900	420	ND	3300	66	9,800	ND	62	20,000

1. $CaCO_3$ = calcium carbonate, mg/L = milligrams per liter, NO_3 = Nitrogen, s.u. = standard pH units, °C = degrees Celsius, µmhos/cm = micromhos per centimeter, ND = not detected, J = trace or estimated concentration with a value greater than the method detection limit but less than the practical quantitation limit.
2. Sample locations are shown on Figure 6 in Appendix B.

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TABLE 3

ANALYTICAL RESULTS
TOTAL METALS

Aera Lost Hills Discharge Sampling
Lost Hills Oil Field, Kern County, California

Sample ID[2]	Discharge Location	Sample Date	Analyte and Result[1]																										
			Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Hexavalent Chromium	Cobalt	Copper	Iron	Lead	Lithium	Manganese	Magnesium	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Strontium	Thallium	Vanadium	Zinc
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
BL1776	Primary TVR Scrubber Drain Pot	05/26/15	ND	ND	0.73	ND	13	ND	260	ND	ND	ND	0.0059 J	1.4	ND	1.5	0.26	190	ND	ND	ND	57	0.068 J	ND	2,700	6.2	ND	ND	0.016 J
BL1786	F-3009 Apron Drain Vault	05/26/15	ND	ND	0.97	ND	24	ND	140	0.014 J	ND	0.0055 J	0.066	28	ND	1.9	1.5	36	0.00014 J	0.0068 J	0.074	85	ND	ND	2,600	2.5	ND	0.044	0.18 J
BL1794	LOGS Line Catch Basin	05/26/15	ND	ND	2.2	ND	63	ND	47	ND	ND	ND	ND	16	ND	5.8	0.25	71	0.00012 J	0.039 J	0.069 J	240	ND	ND	6,700	1.7	ND	0.062 J	0.17 J

1. µg/L = micrograms per liter, mg/L = milligrams per liter, ND = not detected, J = trace or estimated concentration with a value greater than the method detection limit but less than the practical quantitation limit.
2. Sample locations are shown on Figure 6 in Appendix B.

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TABLE 4

ANALYTICAL RESULTS - RADIONUCLIDES

Aera Lost Hills Discharge Sampling
Lost Hills Oil Field, Kern County, California

Sample ID[2]	Discharge Location	Sample Date	Analyte and Result[1]			
			Gross Alpha	Radium 226	Radium 228	Total Recoverable Uranium
			pCi/L	pCi/L	pCi/L	pCi/L
BL1776	Primary TVR Scrubber Drain Pot	05/26/15	ND	10.60	4.16	1.3 J
BL1786	F-3009 Apron Drain Vault	05/26/15	ND	3.42	6.25	2.0 J
BL1794	LOGS Line Catch Basin	05/26/15	ND	8.07	4.76	4.3 J

1. pCi/L = picocuries per liter, ND = not detected, J = trace or estimated concentration with a value greater than the **method detection limit** but less than the practical quantitation limit.
2. Sample locations are shown on Figure 6 in Appendix B.

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TABLE 5

ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS, POLYNUCLEAR AROMATIC HYDROCARBONS, AND TOTAL PETROLEUM HYDROCARBONS

Aera Lost Hills Discharge Sampling
Lost Hills Oil Field, Kern County, California

			Analyte and Result[1]											
			Volatile Organic Compounds				Polynuclear Aromatic Hydrocarbons							
Sample ID[2]	Discharge Location	Sample Date	Benzene	Ethylbenzene	Toluene	Xylenes,Total	Acenaphthene	Acenaphthylene	Benzo[a]anthracene	Chrysene	Fluorene	Naphthalene	Phenanthrene	Total Petroleum Hydrocarbons - Crude Oil
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
BL1776	Primary TVR Scrubber Drain Pot	05/26/15	<0.083	<0.098	<0.093	<0.36	<0.27	<0.23	<0.13	<0.11	<0.15	<0.38	<0.11	14,000
BL1786	F-3009 Apron Drain Vault	05/26/15	0.57	0.97	1.3	5	0.43 J	<0.24	0.34 J	0.34 J	2.2	1.3	3.1	410,000
BL1794	LOGS Line Catch Basin	05/26/15	12	9.5	2.8	40	7.8	4.0	<0.13	<0.11	1.0	2.4	0.50	27,000

1. µg/L = micrograms per liter, mg/L = milligrams per liter, < = less than the method detection limit (MDL), J = trace or estimated concentration with a value greater than the MDL but less than the practical quantitation limit.
2. Sample locations are shown on Figure 6 in Appendix B.

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APPENDIX A

April 1, 2015, California Water Code Directive Pursuant to Section 13267

CALIFORNIA
Water Boards

Central Valley Regional Water Quality Control Board

1 April 2015

Megan Graves
Aera Energy LLC
10000 Ming Avenue
Bakersfield, CA 93389

CERTIFIED MAIL
7014 3490 0001 7023 0025

CALIFORNIA WATER CODE DIRECTIVE PURSUANT TO SECTION 13267. You are legally obligated to respond to this Order. Please read this Order carefully.

Aera Energy LLC (hereafter Discharger) has been identified as the owner or operator of petroleum production wastewater disposal ponds (ponds). A list of the ponds (and the leases and oil fields where they are located) that the California Regional Water Quality Control Board, Central Valley Region (Central Valley Water Board) identifies as under your control is presented in Attachment A. Ponds for the disposal of wastewater generated during the course of petroleum production have the potential to affect the quality of groundwater (a water of the State). Groundwater underlying the areas where your ponds are located have beneficial uses as identified in the Water Quality Control Plan for the Tulare Lake Basin (Basin Plan).

This order requires the collection and analysis of wastewater samples collected from each of the ponds listed in Attachment A to characterize the discharge. Each sample is to be analyzed for each of the constituents listed in Attachment B. These data are needed to comprehensively characterize wastewater in each pond and provide data needed to evaluate the threat to the quality of waters of the State. If more than one pond is connected in series (i.e., one pond drains directly to the next with no other source of inflow) then only the upstream pond must be sampled. This order is not intended to require the collection of duplicative data. If during the 12 months (one year) prior to the date of this order, samples required by this order have been analyzed from one or more of the ponds for the required constituents, that data can be submitted for the appropriate order requirements.

This order also requires Discharger to identify any discharge(s) of oil field wastewater to land that is not identified in Attachment A. Discharger must also collect and analyze wastewater samples in accordance with Attachment B from any additionally identified discharge to characterize the discharge.

The Central Valley Water Board's authority to require technical reports derives from Section 13267 of the California Water Code, which specifies, in part, that:

(b) A regional Board ... in connection with any action relating to any plan or requirement authorized by this division, may investigate the quality of any waters of the State within its region.

(b)(1) In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, or is suspected of having discharged or discharging, or who proposes to discharge waste within its region, or any citizen or domiciliary, or political agency or entity of this state who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge, waste outside of its region that could affect the quality of waters within its region shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefit to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports, and shall identify the evidence that supports requiring that person to provide the reports.

The Central Valley Water Board is concerned about the potential impacts to water quality posed by the discharge of oil field produced waters in surface ponds. The technical information and reports required by this order are necessary to assess the potential threat to water quality. The need to understand the potential impacts to water quality justify the need for the information and reports required by this order. Based on the nature and possible consequences of the discharges of waste, the burden of providing the required information, including the reporting costs, bears a reasonable relationship to the need for the report, and the benefits to be obtained. Discharger is required to submit this information and reports because it is the operator of the ponds listed in Attachment A of this order.

The unauthorized discharge of waste containing oil field waste constituents to land, including unlined ponds, may result in the degradation of water quality and creates or threatens to create, a condition of pollution in groundwater. Significant concentrations of salinity (measured as TDS and EC), significant contributors to salinity such as chloride and sulfate, and boron are present in oil field wastewater. Other potential constituents such as, but not limited to, metals, radionuclides, and organic compounds pose a threat to water quality. The concentrations of these waste constituents in wastewater being discharged needs to be known to evaluate the threat. In addition, all locations where these discharges are occurring needs to be known.

Underlying groundwater can be degraded if mixed with oil field wastewater. Elevated concentrations of oil field waste constituents could impair the groundwater for municipal and domestic supply and agricultural supply uses.

Under the prescribed authority of California Water Code section 13267, the Central Valley Water Board directs Discharger to:

1. **By 15 June 2015**, submit a technical report containing the following information:

   A. Identification of any discharges of oil field produced waters to land, including but not limited to ponds, since April of 2014 that are not listed in Attachment A;

   B. Collect representative samples of wastewater within each of the ponds. Samples must be analyzed in accordance with the water quality analysis and reporting requirements contained in Attachment B to this Order;[1]

   If a representative sample cannot feasibly be collected from one or more of the sources discharging to a surface impoundment(s), then a comment will need to be added to the technical report required by this Order demonstrating that collection of a representative sample from a specific source is not feasible within the required timeframe, and propose an alternative sampling procedure and expeditious time schedule for obtaining a representative sample for each source. Alternative sampling procedures and time schedules are subject to approval by the Assistant Executive Officer of the Central Valley Regional Water Quality Control Board.

   C. All available information for each of the surface impoundment(s), including dimensions (i.e., length, width, and depth), latitude and longitude, Assessor's Parcel Numbers of the lease, duration of the discharge (in months), and the volume of wastewater discharged per year.

   D. A location map that includes the following information:

      i. All surface impoundment(s) at the Facility,
      ii. Include the boundary lines for all leases at the Facility, and
      iii. Legend with the name of the surface impoundment(s).

2. **By 15 April 2015**, Discharger needs to contact Dane S. Johnson of this office at (559) 445-5525 if you have received this Order and cannot collect the required samples.

[1] All previously obtained analytical data for oil field produced wastewater samples collected at the Facility, if any, with a description of the source and location for each analysis may be submitted in the alternative for re-running tests if the sample(s) was collected and analyzed within 12 months (one year) of the date of this order.

The technical report required by this Order must be submitted to the attention of:

Ronald Holcomb
Central Valley Water Board
1685 E Street
Fresno, CA 93706

Based on the information submitted in the technical report, additional information or action may be required.

With the report required by this Order, Discharger shall provide under penalty of perjury under the laws of California a "Certification" statement to the Central Valley Water Board. The "Certification" shall include the following signed statement:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

The Central Valley Water Board reserves the right to issue a Notice of Violation or pursue enforcement for Discharger's activities after reviewing the documentation provided in response to this Order.

The Technical Report is to be signed and stamped by a California Professional Engineer (Registered as a Civil Engineer) or a registered California Professional Geologist. Any laboratory analyses shall be performed by an analytical laboratory certified by the State of California for the analyses performed. Submissions pursuant to this Order shall include a statement by Discharger, or an authorized representative of Discharger, certifying (as described above) that the information submitted is true, complete, and accurate.

The failure to furnish the required report, or the submission of a substantially incomplete report or false information, is a misdemeanor, and may result in additional enforcement actions being taken against Discharger, including issuance of an Administrative Civil Liability Complaint pursuant to California Water Code section 13268. Liability may be imposed pursuant to California Water Code section 13268 in an amount not to exceed one thousand dollars ($1,000) for each day in which the violation occurs. All discharges to unpermitted ponds should cease pending review and submission of the technical information sought by this order.

Any person aggrieved by this action of the Central Valley Water Board may petition the State Water Resources Control Board (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 p.m., within 30 days after the date of this directive, except that if the thirtieth day following the date of this directive falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at: www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

If you have any questions regarding this matter, please contact Doug Patteson of this office at (559) 445-5577 or at doug.patteson@waterboards.ca.gov.

Clay L. Rodgers

Clay L. Rodgers
Assistant Executive Officer

cc: Julie Macedo, Office of Enforcement, State Water Resources Control Board, Sacramento
Mike Toland, California Division of Oil, Gas, and Geothermal Resources, Bakersfield

ATTACHMENT A

The following table contains the names of oil fields and lease(s) and the corresponding number of ponds that the Central Valley Water Board has identified as active and under your control:

OPERATOR	OIL FIELD	LEASE	NO. OF PONDS
Aera Energy LLC	Belridge, North		1
	Belridge, North	Belridge A	1
	Belridge, South	Aera Energy	20
		Belridge V	3
	Coalinga	CMS-Aztec	2
		Penn-Zier	7
		Sec26	9
	Lost Hills	Lost Hills One	1
		Lost Hills Two	2
	Midway-Sunset	Fulton	1
		Lockwood	1
		Moco 35	3
		National USL	2
		Section 8	1
		Shale 14	1
		Vedder	1
		W & S	1
		Wier	2

ATTACHMENT B

Water Quality Analysis

Wastewater samples collected from the ponds shall be analyzed by a laboratory certified by the Environmental Laboratory Accreditation Program using currently applicable United States Environmental Protection Agency-approved analytical methods for water for the following:

A. Total dissolved solids;

B. Metals listed in California Code of Regulations, title 22, section 66261.24. subdivision (a)(2)(A);

C. Benzene, toluene, ethylbenzene, and xylenes;

D. Total petroleum hydrocarbons as crude oil;

E. Polynuclear aromatic hydrocarbons (including acenaphthene, acenaphthylene, anthracene, benzo[a]anthracene, benzo[b]fluoranthene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, fluorine, indeno[1,2,3-cd]pyrene, naphthalene, phenanthrene, and pyrene);

F. Radionuclides listed under California Code of Regulations, title 22, Table 64442;

G. Major and minor cations (including sodium, potassium, magnesium, and calcium);

H. Major and minor anions (including nitrate, chloride, sulfate, carbonate, bicarbonate, and bromide);

I. Trace elements (including lithium, strontium, boron, iron, and manganese).

Reporting Requirements

Water Quality information shall be submitted in a technical report that includes at a minimum:

A. Site plan(s) with the location(s) of where the samples were collected;

B. A description of how the samples, representative of the pond contents, were collected;

Table(s) of analytical results organized by pond number with the data also submitted electronically as an Excel spreadsheet.

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APPENDIX B

Inventory List and Lost Hills Potential Discharge Location Points

Aera Energy LLC - Lost Hills Oil Field
Potential Discharge Locations

Short Identifier	Map Page Number	Field	Lease	Description/Name	Location	RWQCB Name	Sec.	T	R	BM	Latitude	Longitude	APN	Potential Fluid	L	W	D	Construction	Status	Number of Discharge Points	Additional Comments	Intended Use	Volume Discharged [bbl/yr]	Category
BL146	6	Lost Hills	Lost Hills I	LH1 Wtr Plt Secondary Containment	LH1 Wtr Plt Secondary Containment	N/A	4	27S	21E	MD	35.61352	-119.72417	069-111-11	Oil & Water										Secondary Containment
BL149	4	Lost Hills	Lost Hills II	LH2 Wtr Plt Secondary Containment	LH2 Wtr Plt Secondary Containment	N/A	4	26S	21E	MD	35.65001	-119.74593	058-110-13	Oil & Water										Secondary Containment
BL150	4	Lost Hills	Lost Hills II	S-111 LH2 Emergency Pond	S-111 LH2 Emergency Pond	Lost Hills 2, Pond 1	19	26S	21E	MD	35.64968	-119.74438	058-110-13	Oil & Water	140	100		HDPE	Active			Oil and Water Sludge		Emer. Basin
BL151	4	Lost Hills	Lost Hills II	SB-101 Sand Basin	SB-101 Sand Basin	Lost Hills 2, Pond 2	19	26S	21E	MD	35.64941	-119.74639	058-110-13	Oil & Water	50	43	7	Concrete	Active			Sand basin to separate solids from produced fluids		Sand pit/basin
BL243	4	Lost Hills	SOGO	CVR TRAP 104	LOST HILLS	N/A	18	26S	21E	MD	35.65401	-119.75228	058-110-13	Condensate CVR				Earthen	Active	1	PRV pointed to sky or ground	Relief System 2"	0	PRV
BL244	4	Lost Hills	SOGO	CVR TRAP 105	LOST HILLS	N/A	18	26S	21E	MD	35.65389	-119.75122	058-110-26	Condensate CVR				Earthen	Active	1	PRV pointed to sky or ground	Relief System 2"	0	PRV
BL245	4	Lost Hills	Bankline	CVR TRAP 106	LOST HILLS	N/A	19	26S	21E	MD	35.65726	-119.75134	058-110-26	Condensate CVR				Earthen	Active	1	PRV pointed to sky or ground	Relief System 2"	0	PRV
BL246	4	Lost Hills	Bankline	CVR TRAP 108	LOST HILLS	N/A	19	26S	21E	MD	35.65876	-119.75186	058-110-26	Condensate CVR				Earthen	Active	1	PRV pointed to sky or ground	Relief System 2"	0	PRV
BL247	3	Lost Hills	SOGO	CVR TRAP 109	LOST HILLS	N/A	18	26S	21E	MD	35.66074	-119.75394	058-110-50	Condensate CVR				Earthen	Active	1	PRV pointed to sky or ground	Relief System 2"	0	PRV
BL248	3	Lost Hills	SOGO	CVR TRAP 114	LOST HILLS	N/A	18	26S	21E	MD	35.66340	-119.75752	058-110-50	Condensate CVR				Earthen	Active	1	PRV pointed to sky or ground	Relief System 4"	0	PRV
BL249	3	Lost Hills	SOGO	CVR TRAP 122	LOST HILLS	N/A	18	26S	21E	MD	35.66694	-119.75776	058-110-01	Condensate CVR				Concrete	Active	1	PRV pointed to sky or ground	Relief System 3"	0	PRV
BL250	3	Lost Hills	SOGO	CVR TRAP 124	LOST HILLS	N/A	18	26S	21E	MD	35.66823	-119.75622	058-110-01	Condensate CVR				Concrete	Active	1	PRV pointed to sky or ground	Relief System 3"	0	PRV
BL251	3	Lost Hills	SOGO	CVR TRAP 123	LOST HILLS	N/A	18	26S	21E	MD	35.67273	-119.76031	058-110-01	Condensate CVR				Concrete	Active	1	PRV pointed to sky or ground	Relief System 3"	0	PRV
BL252	2	Lost Hills	Lost Hills II	CVR TRAP 116	LOST HILLS	N/A	13	26S	21E	MD	35.67271	-119.76122	057-220-62	Condensate CVR				Concrete	Active	1	PRV pointed to sky or ground	Relief System 2"	0	PRV
BL253	1	Lost Hills	Theta	CVR TRAP 126	LOST HILLS	N/A	12	26S	21E	MD	35.67487	-119.76585	057-202-36	Condensate CVR				Concrete	Active	1	PRV pointed to sky or ground	Relief System 2"	0	PRV
BL254	2	Lost Hills	Lost Hills II	CVR TRAP 118	LOST HILLS	N/A	13	26S	21E	MD	35.67191	-119.76626	057-220-62	Condensate CVR				Earthen	Active	1	PRV pointed to sky or ground	Relief System 2"	0	PRV
BL255	1	Lost Hills	United	CVR TRAP 120	LOST HILLS	N/A	12	26S	21E	MD	35.67532	-119.77218	057-202-58	Condensate CVR				Earthen	Active	1	PRV pointed to sky or ground	Relief System 2"	0	PRV
BL256	2	Lost Hills	Section 13	CVR TRAP 121	LOST HILLS	N/A	12	26S	21E	MD	35.66623	-119.76957	057-220-54	Condensate CVR				Concrete	Active	1	PRV pointed to sky or ground	Relief System 3"	0	PRV
BL257	2	Lost Hills	Lost Hills C	CVR TRAP 117	LOST HILLS	N/A	13	26S	21E	MD	35.66864	-119.76661	057-220-40	Condensate CVR				Earthen	Active	1	PRV pointed to sky or ground	Relief System 2"	0	PRV
BL258	2	Lost Hills	Lost Hills II	LH3 DRAIN VESSEL	LOST HILLS	N/A	13	26S	21E	MD	35.67025	-119.76680	057-220-62	Condensate CVR				Earthen	Active	1	PRV pointed to sky or ground	Relief System 1/1/2"	0	PRV
BL259	2	Lost Hills	Lost Hills II	LH3 SUCTION SCRUBBER VESSEL	LOST HILLS	N/A	19	26S	21E	MD	35.67020	-119.76675	057-220-62	Condensate CVR				Earthen	Active	1	PRV pointed to sky or ground	Relief System 2"	0	PRV
BL260	2	Lost Hills	Lost Hills II	LH3 COMPRESSOR DISCHARGE A	LOST HILLS	N/A	19	26S	21E	MD	35.67018	-119.76675	057-220-62	Condensate CVR				Metal	Active	1	PRV pointed to sky or ground	Relief System 2"	0	PRV
BL261	2	Lost Hills	Lost Hills II	LH3 COMPRESSOR DISCHARGE B	LOST HILLS	N/A	19	26S	21E	MD	35.67018	-119.76675	057-220-62	Condensate CVR				Metal	Active	1	PRV pointed to sky or ground	Relief System 2"	0	PRV
BL262	2	Lost Hills	Lost Hills II	LH3 FF VESSEL	LOST HILLS	N/A	19	26S	21E	MD	35.67002	-119.76675	057-220-62	Condensate CVR				Concrete	Active	1	PRV pointed to sky or ground	Relief System 2"	0	PRV
BL263	2	Lost Hills	Lost Hills II	CVR TRAP 111	LOST HILLS	N/A	13	26S	21E	MD	35.66003	-119.76662	057-220-12	Condensate CVR				Concrete	Active	1	PRV pointed to sky or ground	Relief System 2"	0	PRV
BL264	2	Lost Hills	Lost Hills II	CVR TRAP 113	LOST HILLS	N/A	13	26S	21E	MD	35.66218	-119.76114	057-220-12	Condensate CVR				Concrete	Active	1	PRV pointed to sky or ground	Relief System 2"	0	PRV
BL265	4	Lost Hills	Belridge	401 COMPRESSOR DRAIN PIT	LOST HILLS	N/A	19	26S	21E	MD	35.65873	-119.75312	058-110-13	Condensate CVR				Concrete	Active	1	-	DRAIN FLUIDS FROM COMPRESSOR	0	Drain Pit
BL267	4	Lost Hills	Lost Hills II	401 RELIEF DEFUSHER	LOST HILLS	N/A	19	26S	21E	MD	35.65873	-119.75231	058-110-13	Condensate CVR				Earthen	Active	6	PRV pointed to sky or ground	Relief 5ystem 401 SETTING	0	PRV
BL736	2	Lost Hills	Lost Hills II	WM04 Drain pit	WM04	N/A	13	26S	20E	MD	35.66303	-119.76296	057-220-54	Oil & Water	10'	15'	3'	Concrete	Active	2		(2) Pump drains on 2 skids @ 10'x15'x3'	<5	Drain Pit
BL737	2	Lost Hills	Lost Hills II	WM04 Drain pit	WM04	N/A	13	26S	20E	MD	35.66340	-119.76291	057-220-54	Oil & Water	4'	4'	3'	Concrete	Active	1		PRV relief in emergency conditions (Gas blow down).	<1	PRV
BL738	3	Lost Hills	Lost Hills Gov't	WM03 Drain pit	WM03	N/A	18	26S	21E	MD	35.66080	-119.75845	058-110-50	Oil & Water	10'	15'	3'	Concrete	Active	2		(2) Pump drains on 2 skids @ 10'x15'x3'	<5	Drain Pit
BL739	3	Lost Hills	Lost Hills Gov't	WM03 Drain pit	WM03	N/A	18	26S	21E	MD	35.66097	-119.75833	058-110-50	Oil & Water	4'	4'	3'	Concrete	Active	1		PRV relief in emergency conditions (Gas blow down).	<1	PRV
BL740	4	Lost Hills	Lost Hills II	2T-41 Drain pit	2T-41	N/A	19	26S	21E	MD	35.65648	-119.75507	058-110-13	Oil & Water	2'	2'	1'	Concrete	Active	2		(2) Pump drains on 2 skids @ 2'x2'x1'	<5	Drain Pit
BL741	4	Lost Hills	Lost Hills II	2T-41 Drain pit	2T-41	N/A	19	26S	21E	MD	35.65618	-119.75526	058-110-13	Oil & Water	4'	4'	3'	Concrete	Active	1		PRV relief in emergency conditions (Gas blow down).	<1	PRV
BL742	4	Lost Hills	Lost Hills II	WM02 Drain pit	WM02	N/A	19	26S	21E	MD	35.64918	-119.75093	058-110-13	Oil & Water	2'	2'	1'	Concrete	Active	2		(2) Pump drains on 2 skids @ 2'x2'x1'	<5	Drain Pit
BL743	4	Lost Hills	Lost Hills II	WM02 Drain pit	WM02	N/A	19	26S	21E	MD	35.64944	-119.75085	058-110-13	Oil & Water	3'	1'	6"	Concrete	Active	1		PRV relief in emergency conditions (Gas blow down).	<1	PRV
BL744	6	Lost Hills	Lost Hills II	L150 Catch basin	L150	N/A	4	27S	21E	MD	35.61326	-119.72161	069-111-12	Oil & Water	6"	3"	1.5"	Earthen	Active	2		(2)PRV relief in emergency conditions.	<1	PRV
BL745	6	Lost Hills	Lost Hills II	L143 Catch basin	L143	N/A	4	27S	21E	MD	35.61266	-119.72002	069-111-12	Oil & Water	11'	7'	1.5'	Earthen	Active	2		(2)PRV relief in emergency conditions.	<1	PRV
BL746	6	Lost Hills	Lost Hills II	L140 Catch basin	L140	N/A	4	27S	21E	MD	35.61277	-119.71922	069-111-12	Oil & Water	11'	7'	1.5'	Earthen	Active	2		(2)PRV relief in emergency conditions.	<1	PRV
BL747	6	Lost Hills	Lost Hills II	L148 Catch basin	L148	N/A	4	27S	21E	MD	35.61124	-119.72264	069-111-12	Oil & Water	6'	2'	1'	Earthen	Active	1		PRV relief in emergency conditions.	<1	PRV
BL748	6	Lost Hills	Lost Hills II	L149 Catch basin	L149	N/A	4	27S	21E	MD	35.60952	-119.71940	069-111-12	Oil & Water	4'	3'	1'	Earthen	Active	2		(2)PRV relief in emergency conditions.	<1	PRV
BL749	6	Lost Hills	Lost Hills II	L152 Catch basin	L152	N/A	4	27S	21E	MD	35.60612	-119.72319	069-111-12	Oil & Water	11'	9'	2'	Earthen	Active	1		PRV relief in emergency conditions.	<1	PRV
BL750	6	Lost Hills	Lost Hills II	L147 Catch basin	L147	N/A	4	27S	21E	MD	35.60298	-119.72302	069-111-12	Oil & Water	10'	10'	2'	Earthen	Active	2		(2)PRV relief in emergency conditions.	<1	PRV

Aera Energy LLC - Lost Hills Oil Field
Potential Discharge Locations

Short Identifier	Map Page Number	Field	Lease	Description/Name	Location	RWQCB Name	Sec.	T	R	BM	Latitude	Longitude	APN	Potential Fluid	L	W	D	Construction	Status	Number of Discharge Points	Additional Comments	Intended Use	Volume Discharged (bbl/yr)	Category
BL751	6	Lost Hills	Lost Hills II	L151 Group vessel PRV	L151	N/A	4	27S	21E	MD	35.61366	-119.71903	069-111-12	Oil & Water	_	_	_	Earthen	Active	2		PRV relief in emergency conditions to atmosphere.	<1	PRV
BL752	7	Lost Hills	_	L840 Group vessel PRV	L840	N/A	8	27S	21E	MD	35.59407	-119.72538	069-112-12	Oil & Water	_	_	_	Earthen	Active	1		PRV relief in emergency conditions to atmosphere.	<1	PRV
BL753	8	Lost Hills	Carlton Investments	L940 Group vessel PRV	L940	N/A	9	27S	21E	MD	35.58942	-119.71507	069-112-31	Oil & Water	_	_	_	Earthen	Inactive	1		PRV relief in emergency conditions to atmosphere.	<1	PRV
BL754	8	Lost Hills	Carlton Investments	L941 Gas scrubber PRV	L941	N/A	9	27S	21E	MD	35.59045	-119.71130	069-112-31	Oil & Water	_	_	_	Earthen	Inactive	1		PRV relief in emergency conditions to atmosphere.	<1	PRV
BL755	8	Lost Hills	Carlton Investments	L941 Group Vessel PRV	L941	N/A	9	27S	21E	MD	35.59075	-119.71133	069-112-31	Oil & Water	_	_	_	Earthen	Active	1		PRV relief in emergency conditions to atmosphere.	<1	PRV
BL756	9	Lost Hills	_	L1540 Catch basin	L1540	N/A	15	27S	21E	MD	35.57892	-119.69782	069-120-34	Oil & Water	29'	30'	3'	Earthen	Active	1		PRV relief in emergency conditions.	<1	PRV
BL757	12	Lost Hills	_	L2340 Catch basin	L2340	N/A	23	27S	21E	MD	35.56802	-119.68743	069-120-10	Oil & Water	11'	6'	2'	Earthen	Active	1		PRV relief in emergency conditions.	<1	PRV
BL776	5	Lost Hills	Lost Hill I	Well# 176B-5	176B-5	N/A	5	27S	21E	MD	35.60583	-119.73098	069-111-09	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL777	5	Lost Hills	Lost Hill I	Well# 187B-5	187B-5	N/A	5	27S	21E	MD	35.60404	-119.72881	069-111-09	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL778	5	Lost Hills	Lost Hill I	Well# 189B-5	189B-5	N/A	5	27S	21E	MD	35.60339	-119.72769	069-111-09	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL779	5	Lost Hills	Lost Hill I	Well# 198B-5	198B-5	N/A	5	27S	21E	MD	35.60252	-119.72664	069-111-09	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL780	6	Lost Hills	Lost Hill I	Well# 113-4	113-4	N/A	4	27S	21E	MD	35.61113	-119.72412	069-111-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL781	6	Lost Hills	Lost Hill I	Well# 186A-4	186A-4	N/A	4	27S	21E	MD	35.60668	-119.72112	069-111-12	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL782	6	Lost Hills	Lost Hill I	Well# 187A-4	187A-4	N/A	4	27S	21E	MD	35.60474	-119.72112	069-111-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL783	6	Lost Hills	Lost Hill I	Well# 179A-4	179A-4	N/A	4	27S	21E	MD	35.60143	-119.72351	069-111-12	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL784	6	Lost Hills	Lost Hill I	Well # 161-4	161-4	N/A	4	27S	21E	MD	35.61393	-119.72481	069-111-11	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL785	6	Lost Hills	Lost Hill I	Well# 643-4	643-4	N/A	4	27S	21E	MD	35.61357	-119.72239	069-111-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL786	6	Lost Hills	Lost Hill I	Well# 511-4	511-4	N/A	4	27S	21E	MD	35.61092	-119.71775	069-111-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL787	7	Lost Hills	Rasario	Well# I242-8	I242-8	N/A	8	27S	21E	MD	35.59734	-119.73433	069-112-12	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL788	7	Lost Hills	Rasario	Well# A244-8	A244-8	N/A	8	27S	21E	MD	35.59477	-119.73524	069-112-12	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL789	7	Lost Hills	Rasario	Well# A263-8	A263-8	N/A	8	27S	21E	MD	35.59600	-119.73126	069-112-12	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL790	7	Lost Hills	Rasario	Well# A264-8	A264-8	N/A	8	27S	21E	MD	35.59471	-119.73081	069-112-12	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL791	7	Lost Hills	Rasario	Well# A273-8	A273-8	N/A	8	27S	21E	MD	35.59603	-119.72890	069-112-12	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL792	7	Lost Hills	Rasario	Well# A256-8	A256-8	N/A	8	27S	21E	MD	35.59108	-119.73303	069-112-36	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL793	7	Lost Hills	Rasario	Well# A267-8	A267-8	N/A	8	27S	21E	MD	35.58938	-119.73115	069-112-36	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL794	7	Lost Hills	Rasario	Well# A277-8	A277-8	N/A	8	27S	21E	MD	35.58943	-119.72886	069-112-36	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL795	7	Lost Hills	Rasario	Well# A276-8	A276-8	N/A	8	27S	21E	MD	35.59114	-119.72856	069-112-36	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL796	7	Lost Hills	Rasario	Well# A286-8	A286-8	N/A	8	27S	21E	MD	35.59114	-119.72622	069-112-36	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL797	7	Lost Hills	Rasario	Well# A287-8	A287-8	N/A	8	27S	21E	MD	35.58933	-119.72630	069-112-36	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL798	8	Lost Hills	Mercantile	Well# 33-9	33-9	N/A	9	27S	21E	MD	35.59178	-119.72168	069-112-20	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL799	8	Lost Hills	Mercantile	Well# 165-9	165-9	N/A	9	27S	21E	MD	35.58879	-119.71730	069-112-20	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL800	8	Lost Hills	Mercantile	Well# 162-9	162-9	N/A	9	27S	21E	MD	35.58867	-119.72188	069-112-20	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL801	8	Lost Hills	Mercantile	Well# 124-9	124-9	N/A	9	27S	21E	MD	35.58821	-119.72282	069-112-20	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL802	8	Lost Hills	Mercantile	Well# 135-9	135-9	N/A	9	27S	21E	MD	35.58740	-119.72104	069-112-20	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL803	8	Lost Hills	Mercantile	Well# 146-9	146-9	N/A	9	27S	21E	MD	35.58695	-119.71968	069-112-20	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL804	8	Lost Hills	Mercantile	Well# 31-9	31-9	N/A	9	27S	21E	MD	35.59352	-119.72194	069-112-20	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL805	8	Lost Hills	Mercantile	Well# 32-9	32-9	N/A	9	27S	21E	MD	35.59284	-119.72150	069-112-20	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar

Aera Energy LLC - Lost Hills Oil Field

Potential Discharge Locations

Short Identifier	Map Page Number	Field	Lease	Description/Name	Location	RWQCB Name	Sec.	T	R	BM	Latitude	Longitude	APN	Potential Fluid	L	W	D	Construction	Status	Number of Discharge Points	Additional Comments	Intended Use	Volume Discharged [bbl/yr]	Category
BL806	8	Lost Hills	Mercantile	Well# 41-9	41-9	N/A	9	27S	21E	MD	35.59347	-119.72026	069-112-20	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL807	8	Lost Hills	Mercantile	Well# 51-9	51-9	N/A	9	27S	21E	MD	35.59371	-119.71872	069-112-20	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL808	8	Lost Hills	Mercantile	Well# 41A-9	41A-9	N/A	9	27S	21E	MD	35.59269	-119.71938	069-112-20	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL809	8	Lost Hills	Mercantile	Well# 51A-9	51A-9	N/A	9	27S	21E	MD	35.59288	-119.71820	069-112-20	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL810	8	Lost Hills	Mercantile	Well# 61-9	61-9	N/A	9	27S	21E	MD	35.59351	-119.71720	069-112-20	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL811	8	Lost Hills	Mercantile	Well# 151-9	151-9	N/A	9	27S	21E	MD	35.59322	-119.71724	069-112-20	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL812	8	Lost Hills	Mercantile	Well# 61A-9	61A-9	N/A	9	27S	21E	MD	35.59272	-119.71725	069-112-20	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL813	8	Lost Hills	E.L.Martin	Well# ELM9-9	ELM9-9	N/A	9	27S	21E	MD	35.59367	-119.71345	069-112-27	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL814	8	Lost Hills	E.L.Martin	Well# ELM6-9	ELM6-9	N/A	9	27S	21E	MD	35.59365	-119.71277	069-112-27	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL815	8	Lost Hills	E.L.Martin	Well# ELM8-9	ELM8-9	N/A	9	27S	21E	MD	35.59356	-119.71232	069-112-27	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL816	8	Lost Hills	E.L.Martin	Well# ELM7-9	ELM7-9	N/A	9	27S	21E	MD	35.59358	-119.71147	069-112-27	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL817	8	Lost Hills	Carlton Investments	Well# CI121-9	CI121-9	N/A	9	27S	21E	MD	35.59079	-119.71501	069-112-31	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL818	8	Lost Hills	Carlton Investments	Well# CIA13-9	CIA13-9	N/A	9	27S	21E	MD	35.58865	-119.71558	069-112-31	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL819	8	Lost Hills	Carlton Investments	Well# CIA23-9	CIA23-9	N/A	9	27S	21E	MD	35.58867	-119.71365	069-112-31	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL820	8	Lost Hills	Carlton Investments	Well# CIA43-9	CIA43-9	N/A	9	27S	21E	MD	35.58872	-119.71065	069-112-31	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL821	8	Lost Hills	Carlton Investments	Well# CI142-9	CI142-9	N/A	9	27S	21E	MD	35.58942	-119.71172	069-112-31	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL822	8	Lost Hills	Carlton Investments	Well# CI132-9	CI132-9	N/A	9	27S	21E	MD	35.59027	-119.71213	069-112-31	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL823	8	Lost Hills	Carlton Investments	Well# CIA42-9	CIA42-9	N/A	9	27S	21E	MD	35.59016	-119.71190	069-112-31	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL824	8	Lost Hills	Carlton Investments	Well# CI151-9	CI151-9	N/A	9	27S	21E	MD	35.59050	-119.71035	069-112-31	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL825	8	Lost Hills	Carlton Investments	Well# CI146-9	CI146-9	N/A	9	27S	21E	MD	35.59118	-119.71190	069-112-31	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL826	8	Lost Hills	Carlton Investments	Well# CIA31-9	CIA31-9	N/A	9	27S	21E	MD	35.59117	-119.71240	069-112-31	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL827	8	Lost Hills	Carlton Investments	Well# CIA21-9	CIA21-9	N/A	9	27S	21E	MD	35.59170	-119.71408	069-112-31	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL828	8	Lost Hills	Carlton Investments	Well# CI-I130-9	CI-I130-9	N/A	9	27S	21E	MD	35.59198	-119.71340	069-112-31	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL829	8	Lost Hills	Carlton Investments	Well# CI140-9	CI140-9	N/A	9	27S	21E	MD	35.59165	-119.71096	069-112-31	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL830	2	Lost Hills	Lost Hills III	Well# LH4059-13	LH4059-13	N/A	13	26S	20E	MD	35.67193	-119.76728	057-220-62	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL831	2	Lost Hills	Lost Hills III	Well#4084-13	LH4084-13	N/A	13	26S	20E	MD	35.67128	-119.76680	057-220-62	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL832	2	Lost Hills	Lost Hills III	Well# LH4132-13	LH4132-13	N/A	13	26S	20E	MD	35.67046	-119.76601	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL833	2	Lost Hills	Lost Hills III	Well# LH4314-13	LH4134-13	N/A	13	26S	20E	MD	35.67055	-119.76734	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL834	2	Lost Hills	Lost Hills III	Well# LH4136-13	LH4136-13	N/A	13	26S	20E	MD	35.67055	-119.76832	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL835	2	Lost Hills	Lost Hills III	Well# LH4088-13	LH4088-13	N/A	13	26S	20E	MD	35.67122	-119.76988	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL836	2	Lost Hills	Lost Hills III	Well# LH56-13	LH56-13	N/A	13	26S	20E	MD	35.67114	-119.77013	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL837	2	Lost Hills	Lost Hills III	Well# LH4086-13	LH4086-13	N/A	13	26S	20E	MD	35.67124	-119.76880	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL838	2	Lost Hills	Lost Hills III	Well# LH60-13	LH60-13	N/A	13	26S	20E	MD	35.67065	-119.76805	057-220-62	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL839	2	Lost Hills	Lost Hills III	Well# LH4064-13	LH4064-13	N/A	13	26S	20E	MD	35.67204	-119.77042	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL840	2	Lost Hills	Lost Hills III	Well# LH8066-13	LH8066-13	N/A	13	26S	20E	MD	35.67185	-119.77080	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL841	2	Lost Hills	Lost Hills III	Well# LH4037-13	LH4037-13	N/A	13	26S	20E	MD	35.67261	-119.76898	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL842	2	Lost Hills	Lost Hills III	Well# LH4014-13	LH4014-13	N/A	13	26S	20E	MD	35.67330	-119.77049	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL843	2	Lost Hills	Lost Hills III	Well# LH8116-13	LH8116-13	N/A	13	26S	20E	MD	35.67325	-119.77105	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL844	2	Lost Hills	Lost Hills III	Well# LH4015-13	LH4015-13	N/A	13	26S	20E	MD	35.67327	-119.77145	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar

Aera Energy LLC - Lost Hills Oil Field
Potential Discharge Locations

Short Identifier	Map Page Number	Field	Lease	Description/Name	Location	RWQCB Name	Sec.	T	R	BM	Latitude	Longitude	APN	Potential Fluid	L	W	D	Construction	Status	Number of Discharge Points	Additional Comments	Intended Use	Volume Discharged [bbl/yr]	Category
BL845	1	Lost Hills	United	Well# UN8014-12	UN8014-12	N/A	12	26S	20E	MD	35.67368	-119.77089	057-202-58	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL846	1	Lost Hills	United	Well# UN8012-12	UN8012-12	N/A	12	26S	20E	MD	35.67439	-119.77133	057-202-58	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL847	1	Lost Hills	United	Well# UN8011-12	UN8011-12	N/A	12	26S	20E	MD	35.67496	-119.77177	057-202-58	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL848	1	Lost Hills	United	Well# UN8009-12	UN8009-12	N/A	12	26S	20E	MD	35.67541	-119.77226	057-202-58	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL849	1	Lost Hills	United	Well# UN8008-12	UN8008-12	N/A	12	26S	20E	MD	35.67556	-119.77287	057-202-58	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL850	1	Lost Hills	United	Well# UN8013-12	UN8013-12	N/A	12	26S	20E	MD	35.67458	-119.77258	057-202-58	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL851	1	Lost Hills	United	Well# UN8015-12	UN8015-12	N/A	12	26S	20E	MD	35.67355	-119.77185	057-202-58	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL852	2	Lost Hills	Lost Hills III	Well# LH8041-13	LH8041-13	N/A	13	26S	20E	MD	35.67274	-119.77198	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL853	2	Lost Hills	Lost Hills III	Well# LH8065-13	LH8065-13	N/A	13	26S	20E	MD	35.67199	-119.77130	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL854	2	Lost Hills	Lost Hills III	Well# LH2115-13	LH2115-13	N/A	13	26S	20E	MD	35.67123	-119.77138	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL855	2	Lost Hills	Lost Hills III	Well# LH8089-13	LH8089-13	N/A	13	26S	20E	MD	35.67120	-119.77093	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL856	2	Lost Hills	Lost Hills III	Well# LH2066-13	LH2066-13	N/A	13	26S	20E	MD	35.67173	-119.77242	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL857	2	Lost Hills	Lost Hills III	Well# LH2067-13	LH2067-13	N/A	13	26S	20E	MD	35.67212	-119.77291	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL858	2	Lost Hills	Lost Hills III	Well# LH2116-13	LH2116-13	N/A	13	26S	20E	MD	35.67120	-119.77262	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL859	2	Lost Hills	Lost Hills III	Well# LH2141-13	LH2141-13	N/A	13	26S	20E	MD	35.67023	-119.77240	057-220-62	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL860	2	Lost Hills	Lost Hills III	Well# LH21-13	LH21-13	N/A	13	26S	20E	MD	35.67147	-119.77397	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL861	2	Lost Hills	Lost Hills III	Well# LH2068-13	LH2068-13	N/A	13	26S	20E	MD	35.67239	-119.77419	057-220-62	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL862	2	Lost Hills	Lost Hills III	Well# LH2020-13	LH2020-13	N/A	13	26S	20E	MD	35.67299	-119.77456	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL863	2	Lost Hills	Lost Hills III	Well# LH2018-13	LH2018-13	N/A	13	26S	20E	MD	35.67314	-119.77337	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL864	2	Lost Hills	Lost Hills III	Well# LH2140-13	LH2140-13	N/A	13	26S	20E	MD	35.67032	-119.77130	057-220-62	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL865	2	Lost Hills	Lost Hills III	Well# LH8114-13	LH8114-13	N/A	13	26S	20E	MD	35.67063	-119.77044	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL866	2	Lost Hills	Lost Hills III	Well# LH8138-13	LH8138-13	N/A	13	26S	20E	MD	35.67009	-119.77006	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL867	2	Lost Hills	Lost Hills III	Well# LH4082-13	LH4082-13	N/A	13	26S	20E	MD	35.67111	-119.76517	057-220-62	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL868	2	Lost Hills	Lost Hills III	Well# LH4057-13	LH4057-13	N/A	13	26S	20E	MD	35.67190	-119.76589	057-220-62	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL869	2	Lost Hills	Lost Hills III	Well# LH4130-13	LH4130-13	N/A	13	26S	20E	MD	35.67032	-119.76439	057-220-62	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL870	2	Lost Hills	Lost Hills III	Well# LC8163-13	LC8163-13	N/A	13	26S	20E	MD	35.66945	-119.76960	057-220-40	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL871	2	Lost Hills	Lost Hills III	Well# LC26-13	LC26-13	N/A	13	26S	20E	MD	35.66875	-119.76967	057-220-40	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL872	2	Lost Hills	Lost Hills C	Well# LC27-13	LC27-13	N/A	13	26S	20E	MD	35.66843	-119.76953	057-220-40	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL873	2	Lost Hills	Lost Hills C	Well# LC25-13	LC25-13	N/A	13	26S	20E	MD	35.66844	-119.76911	057-220-40	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL874	2	Lost Hills	Lost Hills C	Well# LC24-R-13	LC24-R-13	N/A	13	26S	20E	MD	35.66896	-119.76931	057-220-40	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL875	2	Lost Hills	Lost Hills C	Well# LC28-13	LC28-13	N/A	13	26S	20E	MD	35.66959	-119.76902	057-220-40	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL876	2	Lost Hills	Lost Hills C	Well# LC8162-13	LC8162-13	N/A	13	26S	20E	MD	35.66931	-119.76858	057-220-40	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL877	2	Lost Hills	Lost Hills C	Well# LC14-13	LC14-13	N/A	13	26S	20E	MD	35.66893	-119.76824	057-220-40	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL878	2	Lost Hills	Lost Hills C	Well# LC29-13	LC29-13	N/A	13	26S	20E	MD	35.66875	-119.76875	057-220-40	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL879	2	Lost Hills	Lost Hills C	Well# LC22-13	LC22-13	N/A	13	26S	20E	MD	35.66847	-119.76842	057-220-40	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL880	2	Lost Hills	Lost Hills C	Well# LC30-13	LC30-13	N/A	13	26S	20E	MD	35.66844	-119.76800	057-220-40	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL881	2	Lost Hills	Lost Hills C	Well# LC4210-13	LC4210-13	N/A	13	26S	20E	MD	35.66866	-119.76741	057-220-40	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL882	2	Lost Hills	Lost Hills C	Well# LC8209-13	LC8209-13	N/A	13	26S	20E	MD	35.66846	-119.76697	057-220-40	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL883	2	Lost Hills	Lost Hills C	Well# LC4161-13	LC4161-13	N/A	13	26S	20E	MD	35.66953	-119.76783	057-220-40	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL884	2	Lost Hills	Lost Hills C	Well# LC8160-13	LC8160-13	N/A	13	26S	20E	MD	35.66972	-119.76764	057-220-40	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL885	2	Lost Hills	Lost Hills C	Well# LC4208-13	LC4208-13	N/A	13	26S	20E	MD	35.66851	-119.76654	057-220-40	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL886	2	Lost Hills	Lost Hills C	Well# LC4182-13	LC4182-13	N/A	13	26S	20E	MD	35.66916	-119.76610	057-220-40	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar

Aera Energy LLC - Lost Hills Oil Field
Potential Discharge Locations

Short Identifier	Map Page Number	Field	Lease	Description/Name	Location	RWQCB Name	Sec.	T	R	BM	Latitude	Longitude	APN	Potential Fluid	L	W	D	Construction	Status	Number of Discharge Points	Additional Comments	Intended Use	Volume Discharged [bbl/yr]	Category
BL887	2	Lost Hills	Lost Hills C	Well# LC4207-13	LC4207-13	N/A	13	26S	20E	MD	35.66847	-119.76540	057-220-40	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL888	2	Lost Hills	Lost Hills C	Well# LC4206-13	LC4206-13	N/A	13	26S	20E	MD	35.66849	-119.76455	057-220-40	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL889	2	Lost Hills	Lost Hills C	Well# LC4178-13	LC4178-13	N/A	13	26S	20E	MD	35.66910	-119.76312	057-220-40	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL890	2	Lost Hills	Lost Hills C	Well# LC4155-13	LC4155-13	N/A	13	26S	20E	MD	35.66968	-119.76363	057-220-40	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL891	2	Lost Hills	Lost Hills C	Well# LC4157-13	LC4157-13	N/A	13	26S	20E	MD	35.66983	-119.76523	057-220-40	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL892	2	Lost Hills	Lost Hills II	Well# LT1-B-13	LT1-B-13	N/A	13	26S	20E	MD	35.66260	-119.76126	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL893	2	Lost Hills	Lost Hills II	Well# L46R-B-13	L46R-B-13	N/A	13	26S	20E	MD	35.66247	-119.76197	057-220-12	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL894	2	Lost Hills	Lost Hills II	Well# LE1-b-13	LE1-B-13	N/A	13	26S	20E	MD	35.66250	-119.76205	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL895	2	Lost Hills	Lost Hills II	Well# L47-B-13	L47-B-13	N/A	13	26S	20E	MD	35.66214	-119.76245	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL896	2	Lost Hills	Lost Hills II	Well# L45-B-13	L45-B-13	N/A	13	26S	20E	MD	35.66249	-119.76275	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL897	2	Lost Hills	Lost Hills II	Well# LE2-B-13	LE2-B-13	N/A	13	26S	20E	MD	35.66248	-119.76290	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL898	2	Lost Hills	Lost Hills II	Well# L50-B-13	L50-B-13	N/A	13	26S	20E	MD	35.66263	-119.76379	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL899	2	Lost Hills	Lost Hills II	Well# LT3-b-13	LT3-B-13	N/A	13	26S	20E	MD	35.66250	-119.76548	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL900	2	Lost Hills	Lost Hills II	Well# L52-b-13	L52-B-13	N/A	13	26S	20E	MD	35.66259	-119.76587	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL901	2	Lost Hills	Lost Hills II	Well# LT4-B-13	LT4-B-13	N/A	13	26S	20E	MD	35.66245	-119.76623	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL902	2	Lost Hills	Lost Hills II	Well# L53-B-13	L53-B-13	N/A	13	26S	20E	MD	35.66258	-119.76697	057-220-12	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL903	2	Lost Hills	Lost Hills II	Well# L42-B-13	L42-B-13	N/A	13	26S	20E	MD	35.66242	-119.76752	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL904	2	Lost Hills	Lost Hills II	Well# L54-B-13	L54-B-13	N/A	13	26S	20E	MD	35.66256	-119.76804	057-220-12	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL905	2	Lost Hills	Lost Hills II	Well# LE7-B-13	LE7-B-13	N/A	13	26S	20E	MD	35.66169	-119.76681	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL906	2	Lost Hills	Lost Hills II	Well# LE12-B-13	LE12-B-13	N/A	13	26S	20E	MD	35.66107	-119.76717	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL907	2	Lost Hills	Lost Hills II	Well# LE10-B-13	LE10-B-13	N/A	13	26S	20E	MD	35.66114	-119.76460	057-220-12	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL908	2	Lost Hills	Lost Hills II	Well# LT14-B-13	LT14-B-13	N/A	13	26S	20E	MD	35.66114	-119.76449	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL909	2	Lost Hills	Lost Hills II	Well# LE5-B-13	LE5-B-13	N/A	13	26S	20E	MD	35.66179	-119.76408	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL910	2	Lost Hills	Lost Hills II	Well# LEI14B-13	LEI14B-13	N/A	13	26S	20E	MD	35.66093	-119.76122	057-220-12	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL911	2	Lost Hills	Lost Hills II	Well# LE4-B-13	LE4-B-13	N/A	13	26S	20E	MD	35.66183	-119.76332	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL912	2	Lost Hills	Lost Hills II	Well# LT7-B-13	LT7-B-13	N/A	13	26S	20E	MD	35.66182	-119.76322	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL913	2	Lost Hills	Lost Hills II	Well# LT13-B-13	LT13-B-13	N/A	13	26S	20E	MD	35.66129	-119.76280	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL914	2	Lost Hills	Lost Hills II	Well# LE9-B-13	LE9-B-13	N/A	13	26S	20E	MD	35.66127	-119.76288	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL915	2	Lost Hills	Lost Hills II	Well# LE8-B-13	LE8-B-13	N/A	13	26S	20E	MD	35.66121	-119.76196	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL916	2	Lost Hills	Lost Hills II	Well# LT12-B-13	LT12-B-13	N/A	13	26S	20E	MD	35.66124	-119.76189	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL917	2	Lost Hills	Lost Hills II	Well# LT11-B-13	LT11-B-13	N/A	13	26S	20E	MD	35.66128	-119.76128	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL918	2	Lost Hills	Lost Hills II	Well# LT6-B-13	LT6-B-13	N/A	13	26S	20E	MD	35.66181	-119.76137	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL919	2	Lost Hills	Lost Hills II	Well# L36R-B-13	L36R-B-13	N/A	13	26S	20E	MD	35.66041	-119.76168	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL920	2	Lost Hills	Lost Hills II	Well# LE17-B-13	LE17-B-13	N/A	13	26S	20E	MD	35.66008	-119.76130	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL921	2	Lost Hills	Lost Hills II	Well# LT22-B-13	LT22-B-13	N/A	13	26S	20E	MD	35.66000	-119.76130	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL922	2	Lost Hills	Lost Hills II	Well# LT23-B-13	LT23-B-13	N/A	13	26S	20E	MD	35.66002	-119.76185	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL923	2	Lost Hills	Lost Hills II	Well# LE18-B-13	LE18-B-13	N/A	13	26S	20E	MD	35.66001	-119.76195	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL924	2	Lost Hills	Lost Hills II	Well# LT24-B-13	LT24-B-13	N/A	13	26S	20E	MD	35.66001	-119.76266	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL925	2	Lost Hills	Lost Hills II	Well# LE19-B-13	LE19-B-13	N/A	13	26S	20E	MD	35.66004	-119.76274	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL926	2	Lost Hills	Lost Hills II	Well# LE14-B-13	LE14-B-13	N/A	13	26S	20E	MD	35.66053	-119.76413	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL927	2	Lost Hills	Lost Hills II	Well# LT25-B-13	LT25-B-13	N/A	13	26S	20E	MD	35.65994	-119.76447	057-220-12	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL928	2	Lost Hills	Lost Hills II	Well# LE20-B-13	LE20-B-13	N/A	13	26S	20E	MD	35.65989	-119.76456	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar

Aera Energy LLC - Lost Hills Oil Field

Potential Discharge Locations

Short Identifier	Map Page Number	Field	Lease	Description/Name	Location	RWQCB Name	Sec.	T	R	BM	Latitude	Longitude	APN	Potential Fluid	L	W	D	Construction	Status	Number of Discharge Points	Additional Comments	Intended Use	Volume Discharged [bbl/yr]	Category
BL929	2	Lost Hills	Lost Hills II	Well# LE21-B-13	LE21-B-13	N/A	13	26S	20E	MD	35.65985	-119.76538	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL930	2	Lost Hills	Lost Hills II	Well# LE15-B-13	LE15-B-13	N/A	13	26S	20E	MD	35.66046	-119.76585	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL931	2	Lost Hills	Lost Hills II	Well# LE16-B-13	LE16-B-13	N/A	13	26S	20E	MD	35.66046	-119.76670	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL932	2	Lost Hills	Lost Hills II	Well# LE22-B-13	LE22-B-13	N/A	13	26S	20E	MD	35.65979	-119.76709	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL933	2	Lost Hills	Lost Hills II	Well# LS8-B-13	LS8-B-13	N/A	13	26S	20E	MD	35.65950	-119.76664	057-220-12	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL934	2	Lost Hills	Lost Hills II	Well# LE25-B-13	LE25-B-13	N/A	13	26S	20E	MD	35.65932	-119.76580	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL935	2	Lost Hills	Lost Hills II	Well# LE26-B-13	LE26-B-13	N/A	13	26S	20E	MD	35.65931	-119.76666	057-220-12	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL936	2	Lost Hills	Lost Hills II	Well# LS7-B-13	LS7-B-13	N/A	13	26S	20E	MD	35.65912	-119.76465	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL937	2	Lost Hills	Lost Hills II	Well# L24-B-13	L24-B-13	N/A	13	26S	20E	MD	35.66234	-119.76411	057-220-12	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL938	2	Lost Hills	Lost Hills II	Well# LT31-B-13	LT31-B-13	N/A	13	26S	20E	MD	35.65924	-119.76398	057-220-12	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL939	2	Lost Hills	Lost Hills II	Well# LT30-B-13	LT30-B-13	N/A	13	26S	20E	MD	35.65921	-119.76315	057-220-12	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL940	2	Lost Hills	Lost Hills II	Well# LT29-B-13	LT29-B-13	N/A	13	26S	20E	MD	35.65923	-119.76219	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL941	2	Lost Hills	Lost Hills II	Well# LS5-B-13	LS5-B-13	N/A	13	26S	20E	MD	35.65917	-119.76202	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL942	2	Lost Hills	Lost Hills II	Well# L41-B-13	L41-B-13	N/A	13	26S	20E	MD	35.65957	-119.76121	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL943	2	Lost Hills	Lost Hills II	Well# LT28-B-13	LT28-B-13	N/A	13	26S	20E	MD	35.65944	-119.76122	057-220-12	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL944	2	Lost Hills	Lost Hills II	Well# LE23-B-13	LE23-B-13	N/A	13	26S	20E	MD	35.65936	-119.76120	057-220-12	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL945	4	Lost Hills	Lost Hills II	Well# L811-19	L811-19	N/A	19	26S	21E	MD	35.65651	-119.75995	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL946	4	Lost Hills	Lost Hills II	Well# L812-19	L812-19	N/A	19	26S	21E	MD	35.65651	-119.75928	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL947	4	Lost Hills	Lost Hills II	Well# L8100-19	L8100-19	N/A	19	26S	21E	MD	35.65683	-119.76063	058-110-13	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL948	4	Lost Hills	Lost Hills II	Well# L807-19	L807-19	N/A	19	26S	21E	MD	35.65733	-119.76075	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL949	4	Lost Hills	Lost Hills II	Well# L804-19	L804-19	N/A	19	26S	21E	MD	35.65829	-119.76077	058-110-13	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL950	4	Lost Hills	Lost Hills II	Well# L802-19	L802-19	N/A	19	26S	21E	MD	35.65891	-119.75953	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL951	4	Lost Hills	Lost Hills II	Well# LT-427-19	LT-427-19	N/A	19	26S	21E	MD	35.65892	-119.75915	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL952	4	Lost Hills	Lost Hills II	Well# LT-431-19	LT-431-19	N/A	19	26S	21E	MD	35.65883	-119.75787	058-110-13	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL953	4	Lost Hills	Lost Hills II	Well# LT-428-19	LT-428-19	N/A	19	26S	21E	MD	35.65892	-119.75631	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL954	4	Lost Hills	Lost Hills II	Well# LT-352-19	LT-352-19	N/A	19	26S	21E	MD	35.65891	-119.75552	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL955	4	Lost Hills	Lost Hills II	Well# L4016-19	L4016-19	N/A	19	26S	21E	MD	35.65875	-119.75423	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL956	4	Lost Hills	Lost Hills II	Well# L4040-19	L4040-19	N/A	19	26S	21E	MD	35.65860	-119.75389	058-110-13	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL957	4	Lost Hills	Lost Hills II	Well# L406S-19	L406S-19	N/A	19	26S	21E	MD	35.65766	-119.75391	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL958	4	Lost Hills	Lost Hills II	Well# LT-337r-19	LT-337r-19	N/A	19	26S	21E	MD	35.65734	-119.75339	058-110-13	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL959	4	Lost Hills	Lost Hills II	Well# L332R-19	L332R-19	N/A	19	26S	21E	MD	35.65874	-119.75512	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL960	4	Lost Hills	Lost Hills II	Well# L336R-19	L336R-19	N/A	19	26S	21E	MD	35.65742	-119.75461	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL961	4	Lost Hills	Lost Hills II	Well# LT-350-19	LT-350-19	N/A	19	26S	21E	MD	35.65808	-119.75497	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL962	4	Lost Hills	Lost Hills II	Well# LT-335R-19	LT-335R-19	N/A	19	26S	21E	MD	35.65813	-119.75596	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL963	4	Lost Hills	Lost Hills II	Well# L810-19	L810-19	N/A	19	26S	21E	MD	35.65830	-119.75843	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL964	4	Lost Hills	Lost Hills II	Well# L806R-19	L806R-19	N/A	19	26S	21E	MD	35.65819	-119.75929	058-110-13	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL965	4	Lost Hills	Lost Hills II	Well# L219-19	L219-19	N/A	19	26S	21E	MD	35.65843	-119.75985	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL966	4	Lost Hills	Lost Hills II	Well# L805-19	L805-19	N/A	19	26S	21E	MD	35.65829	-119.76003	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL967	4	Lost Hills	Lost Hills II	Well# L808-19	L808-19	N/A	19	26S	21E	MD	35.65746	-119.76007	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL968	4	Lost Hills	Lost Hills II	Well# L222-19	L222-19	N/A	19	26S	21E	MD	35.65682	-119.75874	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL969	4	Lost Hills	Lost Hills II	Well# L4073-19	L4073-19	N/A	19	26S	21E	MD	35.65768	-119.75924	058-110-13	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL970	4	Lost Hills	Lost Hills II	Well# L814-19	L814-19	N/A	19	26S	21E	MD	35.65756	-119.75846	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar

Aera Energy LLC - Lost Hills Oil Field

Potential Discharge Locations

Short Identifier	Map Page Number	Field	Lease	Description/Name	Location	RWQCB Name	Sec.	T	R	BM	Latitude	Longitude	APN	Potential Fluid	L	W	D	Construction	Status	Number of Discharge Points	Additional Comments	Intended Use	Volume Discharged [bbl/yr]	Category
BL971	4	Lost Hills	Lost Hills II	Well# L81S-19	L81S-19	N/A	19	26S	21E	MD	35.65746	-119.75768	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL972	4	Lost Hills	Lost Hills II	Well# L349R-19	L349R-19	N/A	19	26S	21E	MD	35.65679	-119.75463	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL973	4	Lost Hills	Lost Hills II	Well# LT-318R-19	LT-318R-19	N/A	19	26S	21E	MD	35.65620	-119.75445	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL974	4	Lost Hills	Lost Hills II	Well# L816-19	L816-19	N/A	19	26S	21E	MD	35.65625	-119.75767	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL975	4	Lost Hills	Lost Hills II	Well# L309R-19	L309R-19	N/A	19	26S	21E	MD	35.65557	-119.75419	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL976	4	Lost Hills	Lost Hills II	Well# LT-354-19	LT-354-19	N/A	19	26S	21E	MD	35.65578	-119.75359	058-110-13	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL977	4	Lost Hills	Lost Hills II	Well# LT-353-19	LT-353-19	N/A	19	26S	21E	MD	35.65509	-119.75356	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL978	4	Lost Hills	Lost Hills II	Well# L99-19	L99-19	N/A	19	26S	21E	MD	35.65403	-119.75697	058-110-13	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL979	4	Lost Hills	Lost Hills II	Well# L297-19	L297-19	N/A	19	26S	21E	MD	35.64705	-119.74445	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL980	4	Lost Hills	Lost Hills II	Well# L206-19	L206-19	N/A	19	26S	21E	MD	35.64838	-119.75642	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL981	4	Lost Hills	Lost Hills II	Well# L277-19	L277-19	N/A	19	26S	21E	MD	35.64683	-119.74748	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL982	4	Lost Hills	Lost Hills II	Well# L267-19	L267-19	N/A	19	26S	21E	MD	35.64552	-119.74932	058-110-13	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL983	4	Lost Hills	Lost Hills II	Well# L266-19	L266-19	N/A	19	26S	21E	MD	35.64760	-119.75089	058-110-13	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL984	4	Lost Hills	Bankline	Well# BK4211-19	BK4211-19	N/A	19	26S	21E	MD	35.65439	-119.75103	058-110-26	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL985	4	Lost Hills	Bankline	Well# BK4162-19	BK4162-19	N/A	19	26S	21E	MD	35.65517	-119.75116	058-110-26	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL986	4	Lost Hills	Bankline	Well# BK4136-19	BK4136-19	N/A	19	26S	21E	MD	35.65588	-119.75099	058-110-26	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL987	4	Lost Hills	Bankline	Well# BK4112-19	BK4112-19	N/A	19	26S	21E	MD	35.65641	-119.75159	058-110-26	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL988	4	Lost Hills	Lost Hills II	Well# L4138-19	L4138-19	N/A	19	26S	21E	MD	35.65610	-119.75229	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL989	4	Lost Hills	Lost Hills II	Well# L411S-19	L411S-19	N/A	19	26S	21E	MD	35.65647	-119.75314	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL990	4	Lost Hills	Lost Hills II	Well# L4063-19	L4063-19	N/A	19	26S	21E	MD	35.65758	-119.75230	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL991	4	Lost Hills	Lost Hills II	Well# L4038-19	L4038-19	N/A	19	26S	21E	MD	35.65822	-119.75232	058-110-13	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL992	3	Lost Hills	West Gov't	Well# G1-8XR2-18	G1-8XR2-18	N/A	18	26S	21E	MD	35.66383	-119.75950	058-110-50	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL993	3	Lost Hills	West Gov't	Well# G5-12A-18	G5-12A-18	N/A	18	26S	21E	MD	35.65984	-119.75371	058-110-50	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL994	3	Lost Hills	West Gov't	Well# G24R-18	G24R-18	N/A	18	26S	21E	MD	35.66290	-119.75871	058-110-50	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL995	3	Lost Hills	West Gov't	Well# G15R-18	G15R-18	N/A	18	26S	21E	MD	35.66057	-119.75900	058-110-50	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL996	3	Lost Hills	West Gov't	Well# G2-12D-18	G2-12D-18	N/A	18	26S	21E	MD	35.66015	-119.76049	058-110-50	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL997	3	Lost Hills	West Gov't	Well# G2-10D-18	G2-10D-18	N/A	18	26S	21E	MD	35.66111	-119.76023	058-110-50	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL998	3	Lost Hills	West Gov't	Well# G1-8A-18	G1-8A-18	N/A	18	26S	21E	MD	35.66363	-119.76068	058-110-50	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL999	3	Lost Hills	West Gov't	Well# G1-7C-18	G1-7C-18	N/A	18	26S	21E	MD	35.66480	-119.76083	058-110-50	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1000	3	Lost Hills	West Gov't	Well# G44R-18	G44R-18	N/A	18	26S	21E	MD	35.65942	-119.75619	058-110-50	Oil & Water	6'	6'	6'	Metal	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1003	8	Lost Hills	Carlton Investments	Well# CI137-9	CI137-9	N/A	9	27S	21E	MD	35.59063	-119.71309	069-112-31	Oil & Water	6'	6'	6'	Metal	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1004	11	Lost Hills	JD Martin	Well# A553-21	A553-21	N/A	21	27S	21E	MD	35.56766	-119.71536	069-130-32	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1005	11	Lost Hills	JD Martin	Well# E523-21	E523-21	N/A	21	27S	21E	MD	35.56715	-119.72205	069-130-33	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1006	11	Lost Hills	JD Martin	Well# A515-21	A515-21	N/A	21	27S	21E	MD	35.56382	-119.72419	069-130-30	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1007	11	Lost Hills	JD Martin	Well# E545-21	E545-21	N/A	21	27S	21E	MD	35.56307	-119.71791	069-130-33	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1008	11	Lost Hills	JD Martin	Well# E566-21	E566-21	N/A	21	27S	21E	MD	35.56195	-119.71319	069-130-31	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1009	11	Lost Hills	JD Martin	Well# A581-21	A581-21	N/A	21	27S	21E	MD	35.57142	-119.70874	069-130-29	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1010	9	Lost Hills	Christensen	Well# A143-15	A143-15	N/A	15	27S	21E	MD	35.58211	-119.69982	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1011	9	Lost Hills	Christensen	Well# A133-15	A133-15	N/A	15	27S	21E	MD	35.58212	-119.70204	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1012	9	Lost Hills	Christensen	Well# A123-15	A123-15	N/A	15	27S	21E	MD	35.58212	-119.70427	069-120-34	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1013	9	Lost Hills	Christensen	Well# A113-15	A113-15	N/A	15	27S	21E	MD	35.58212	-119.70648	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1014	9	Lost Hills	Christensen	Well# A114R-15	A114R-15	N/A	15	27S	21E	MD	35.58047	-119.70619	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar

Aera Energy LLC - Lost Hills Oil Field
Potential Discharge Locations

Short Identifier	Map Page Number	Field	Lease	Description/Name	Location	RWQCB Name	Sec.	T	R	BM	Latitude	Longitude	APN	Potential Fluid	L	W	D	Construction	Status	Number of Discharge Points	Additional Comments	Intended Use	Volume Discharged [bbl/yr]	Category
BL1015	9	Lost Hills	Christensen	Well# A124-15	A124-15	N/A	15	27S	21E	MD	35.58035	-119.70425	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1016	9	Lost Hills	Christensen	Well# A134-15	A134-15	N/A	15	27S	21E	MD	35.58035	-119.70203	069-120-34	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1017	9	Lost Hills	Christensen	Well# A144-15	A144-15	N/A	15	27S	21E	MD	35.58038	-119.69983	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1018	9	Lost Hills	Christensen	Well# I124-15	I124-15	N/A	15	27S	21E	MD	35.57949	-119.70422	069-120-34	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1019	9	Lost Hills	Christensen	Well# I105-15	I105-15	N/A	15	27S	21E	MD	35.57870	-119.70728	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1020	9	Lost Hills	Christensen	Well# A115-15	A115-15	N/A	15	27S	21E	MD	35.57859	-119.70647	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1021	9	Lost Hills	Christensen	Well# A135-15	A135-15	N/A	15	27S	21E	MD	35.57860	-119.70204	069-120-34	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1022	9	Lost Hills	Christensen	Well# A145-15	A145-15	N/A	15	27S	21E	MD	35.57859	-119.69985	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1023	9	Lost Hills	Christensen	Well# A136-15	A136-15	N/A	15	27S	21E	MD	35.57672	-119.70203	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1024	9	Lost Hills	Christensen	Well# I137-15	I137-15	N/A	15	27S	21E	MD	35.57607	-119.70033	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1025	9	Lost Hills	Christensen	Well# A117R-15	A117R-15	N/A	15	27S	21E	MD	35.57559	-119.70636	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1026	9	Lost Hills	Christensen	Well# A147-15	A147-15	N/A	15	27S	21E	MD	35.57500	-119.69985	069-120-34	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1027	9	Lost Hills	Christensen	Well# I128-15	I128-15	N/A	15	27S	21E	MD	35.57406	-119.70249	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1028	9	Lost Hills	Christensen	Well# A138-15	A138-15	N/A	15	27S	21E	MD	35.57315	-119.70202	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1029	9	Lost Hills	Christensen	Well# A148-15	A148-15	N/A	15	27S	21E	MD	35.57318	-119.69984	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1030	9	Lost Hills	Christensen	Well# I148-15	I148-15	N/A	15	27S	21E	MD	35.57435	-119.69775	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1031	9	Lost Hills	Christensen	Well# A168-15	A168-15	N/A	15	27S	21E	MD	35.57325	-119.69544	069-120-34	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1032	9	Lost Hills	Christensen	Well# A178-15	A178-15	N/A	15	27S	21E	MD	35.57290	-119.69322	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1033	9	Lost Hills	Christensen	Well# A188-15	A188-15	N/A	15	27S	21E	MD	35.57326	-119.69100	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1034	9	Lost Hills	Christensen	Well# A187-15	A187-15	N/A	15	27S	21E	MD	35.57510	-119.69075	069-120-34	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1035	9	Lost Hills	Christensen	Well# A177-15	A177-15	N/A	15	27S	21E	MD	35.57509	-119.69293	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1036	9	Lost Hills	Christensen	Well# A167-15	A167-15	N/A	15	27S	21E	MD	35.57509	-119.69543	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1037	9	Lost Hills	Christensen	Well# I147-15	I147-15	N/A	15	27S	21E	MD	35.57608	-119.69793	069-120-34	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1038	9	Lost Hills	Christensen	Well# A156-15	A156-15	N/A	15	27S	21E	MD	35.57679	-119.69762	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1039	9	Lost Hills	Christensen	Well# I156-15	I156-15	N/A	15	27S	21E	MD	35.57781	-119.69586	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1040	9	Lost Hills	Christensen	Well# A166-15	A166-15	N/A	15	27S	21E	MD	35.57676	-119.69542	069-120-34	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1041	9	Lost Hills	Christensen	Well# A185-15	A185-15	N/A	15	27S	21E	MD	35.57898	-119.69058	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1042	9	Lost Hills	Christensen	Well# A165-15	A165-15	N/A	15	27S	21E	MD	35.57877	-119.69546	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1043	9	Lost Hills	Christensen	Well# A155-15	A155-15	N/A	15	27S	21E	MD	35.57811	-119.69767	069-120-34	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1044	9	Lost Hills	Christensen	Well# A154-15	A154-15	N/A	15	27S	21E	MD	35.58038	-119.69763	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1045	9	Lost Hills	Christensen	Well# I136-15	I136-15	N/A	15	27S	21E	MD	35.57772	-119.70120	069-120-34	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1046	9	Lost Hills	Christensen	Well# I146-15	I146-15	N/A	15	27S	21E	MD	35.57741	-119.69926	069-120-34	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1047	9	Lost Hills	Christensen	Well# I116-15	I116-15	N/A	15	27S	21E	MD	35.57766	-119.70425	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1048	9	Lost Hills	Christensen	Well# I106-15	I106-15	N/A	15	27S	21E	MD	35.57705	-119.70728	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1049	9	Lost Hills	Christensen	Well# A126-15	A126-15	N/A	15	27S	21E	MD	35.57678	-119.70425	069-120-34	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1050	9	Lost Hills	Christensen	Well# A146-15	A146-15	N/A	15	27S	21E	MD	35.57732	-119.69920	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1051	9	Lost Hills	Christensen	Well# I127-15	I127-15	N/A	15	27S	21E	MD	35.57568	-119.70273	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1052	9	Lost Hills	Christensen	Well# A137-15	A137-15	N/A	15	27S	21E	MD	35.57497	-119.70203	069-120-34	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1053	9	Lost Hills	Christensen	Well# A128-15	A128-15	N/A	15	27S	21E	MD	35.57315	-119.70424	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1054	9	Lost Hills	Christensen	Well# A174-15	A174-15	N/A	15	27S	21E	MD	35.58073	-119.69260	069-120-34	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1055	10	Lost Hills	JD Martin	Well# A916-14	A916-14	N/A	14	27S	21E	MD	35.57689	-119.68856	069-120-32	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1056	10	Lost Hills	JD Martin	Well# A927-14	A927-14	N/A	14	27S	21E	MD	35.57516	-119.68658	069-120-32	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar

Aera Energy LLC - Lost Hills Oil Field

Potential Discharge Locations

Short Identifier	Map Page Number	Field	Lease	Description/Name	Location	RWQCB Name	Sec.	T	R	BM	Latitude	Longitude	APN	Potential Fluid	L	W	D	Construction	Status	Number of Discharge Points	Additional Comments	Intended Use	Volume Discharged [bbl/yr]	Category
BL1057	10	Lost Hills	JD Martin	Well# A917-14	A917-14	N/A	14	27S	21E	MD	35.57516	-119.68855	069-120-32	Oil & Water	6'	6'	6'	Concrete	Active	2		Production capture during stuffing box failure.	<2	Well Cellar
BL1058	12	Lost Hills	JD Martin	Well# A624-23	A624-23	N/A	23	27S	21E	MD	35.56603	-119.68616	069-120-10	Oil & Water	6'	6'	6'	Concrete	Inactive	3		Production capture during stuffing box failure.	<3	Well Cellar
BL1059	12	Lost Hills	JD Martin	Well# A644-23	A644-23	N/A	23	27S	21E	MD	35.56604	-119.68160	069-120-10	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1060	12	Lost Hills	JD Martin	Well# A615-23	A615-23	N/A	23	27S	21E	MD	35.56423	-119.68837	069-120-10	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1061	12	Lost Hills	JD Martin	Well# A625-23	A625-23	N/A	23	27S	21E	MD	35.56423	-119.68600	069-120-10	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1062	12	Lost Hills	JD Martin	Well# A635-23	A635-23	N/A	23	27S	21E	MD	35.56425	-119.68402	069-120-10	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1063	12	Lost Hills	JD Martin	Well# A655-23	A655-23	N/A	23	27S	21E	MD	35.56420	-119.67901	069-120-10	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1064	12	Lost Hills	JD Martin	Well# A656-23	A656-23	N/A	23	27S	21E	MD	35.56245	-119.67930	069-120-10	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1065	12	Lost Hills	JD Martin	Well# A626-23	A626-23	N/A	23	27S	21E	MD	35.56238	-119.68657	069-120-10	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1066	12	Lost Hills	JD Martin	Well# A627-23	A627-23	N/A	23	27S	21E	MD	35.56042	-119.68560	069-120-10	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1067	12	Lost Hills	JD Martin	Well# A637-23	A637-23	N/A	23	27S	21E	MD	35.56074	-119.68386	069-120-10	Oil & Water	6'	6'	6'	Concrete	Inactive	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1068	12	Lost Hills	JD Martin	Well# A628-23	A628-23	N/A	23	27S	21E	MD	35.55822	-119.68572	069-120-10	Oil & Water	6'	6'	6'	Concrete	Active	1		Production capture during stuffing box failure.	<1	Well Cellar
BL1200	4	Lost Hills	Lost Hill Two	Blow down pit	Gens LH	N/A	19	26S	21E	MD	35.65799	-119.75243	058-110-13	Steam	10	10	6	Concrete	Active	12		Generator Blowdown 401A-L	4	Blowdown pit
BL1201	4	Lost Hills	Lost Hill Two	Trunkline Blowdown	Gens LH	N/A	19	26S	21E	MD	35.65698	-119.75211	058-110-13	Steam					Active	1		Depressurization of Line	< 1	Blowdown
BL1202	4	Lost Hills	Lost Hill Two	Trunkline Blowdown	Gens LH	N/A	19	26S	21E	MD	35.65870	-119.75231	058-110-13	Steam					Active	1		Depressurization of Line	< 1	Blowdown
BL1203	2	Lost Hills	Lost Hill Two	Trunkline Blowdown	LH	N/A	19	26S	21E	MD	35.66547	-119.76522	057-220-54	Steam					Active	1		Depressurization of Line	< 1	Blowdown
BL1204		Lost Hills	WEST GOVERNMENT	Trunkline Blowdown	LH	N/A	18	26S	21E	MD				Steam					Active	1		Depressurization of Line	< 1	Blowdown
BL1205	2	Lost Hills	WEST GOVERNMENT	Trunkline Blowdown	LH	N/A	18	26S	21E	MD	35.66610	-119.76661	057-220-53	Steam					Active	1		Depressurization of Line	< 1	Blowdown
BL1206	2	Lost Hills	WEST GOVERNMENT	Trunkline Blowdown	LH	N/A	18	26S	21E	MD	35.66660	-119.76831	057-220-54	Steam					Active	1		Depressurization of Line	< 1	Blowdown
BL1207		Lost Hills	WEST GOVERNMENT	Trunkline Blowdown	LH	N/A	18	26S	21E	MD				Steam					Active	1		Depressurization of Line	< 1	Blowdown
BL1208		Lost Hills	WEST GOVERNMENT	Trunkline Blowdown	LH	N/A	18	26S	20E	MD				Steam					Active	1		Depressurization of Line	< 1	Blowdown
BL1209		Lost Hills	THEDA OIL & LAND CO	Trunkline Blowdown	LH	N/A	12	26S	20E	MD				Steam					Active	1		Depressurization of Line	< 1	Blowdown
BL1210		Lost Hills	THEDA OIL & LAND CO	Trunkline Blowdown	LH	N/A	12	26S	20E	MD				Steam					Active	1		Depressurization of Line	< 1	Blowdown
BL1211		Lost Hills	Lost Hills Two	Trunkline Blowdown	LH	N/A	19	26S	21E	MD				Steam					Active	1		Depressurization of Line	< 1	Blowdown
BL1212		Lost Hills	Lost Hills C	Trunkline Blowdown	LH	N/A	13	26S	20E	MD				Steam					Active	1		Depressurization of Line	< 1	Blowdown
BL1213	4	Lost Hills	Lost Hill Two	401A Gen	LH	N/A	19	26S	21E	MD	35.65845	-119.75305	058-110-13	Steam					Active	4		Pressure Relief valves x2 and 1inch bleed valves x2	< 1	PRV
BL1214	4	Lost Hills	Lost Hill Two	401B Gen	LH	N/A	19	26S	21E	MD	35.65833	-119.75306	058-110-13	Steam					Active	4		Pressure Relief valves x2 and 1inch bleed valves x2	< 1	PRV
BL1215	4	Lost Hills	Lost Hill Two	401C Gen	LH	N/A	19	26S	21E	MD	35.65821	-119.75355	058-110-13	Steam					Active	4		Pressure Relief valves x2 and 1inch bleed valves x2	< 1	PRV
BL1216	4	Lost Hills	Lost Hill Two	401D Gen	LH	N/A	19	26S	21E	MD	35.65809	-119.75306	058-110-13	Steam					Active	4		Pressure Relief valves x2 and 1inch bleed valves x2	< 1	PRV
BL1217	4	Lost Hills	Lost Hill Two	401E Gen	LH	N/A	19	26S	21E	MD	35.65795	-119.75305	058-110-13	Steam					Active	4		Pressure Relief valves x2 and 1inch bleed valves x2	< 1	PRV
BL1218	4	Lost Hills	Lost Hill Two	401F Gen	LH	N/A	19	26S	21E	MD	35.65784	-119.75305	058-110-13	Steam					Active	5		Pressure Relief valves x2, 1inch bleed valves x2, and wheatley pump bleed	< 1	PRV
BL1219	4	Lost Hills	Lost Hill Two	401G Gen	LH	N/A	19	26S	21E	MD	35.65772	-119.75305	058-110-13	Steam					Active	5		Pressure Relief valves x2, 1inch bleed valves x2, and wheatley pump bleed	< 1	PRV
BL1220	4	Lost Hills	Lost Hill Two	401H Gen	LH	N/A	19	26S	21E	MD	35.65759	-119.75305	058-110-13	Steam					Active	4		Pressure Relief valves x2 and 1inch bleed valves x2	< 1	PRV
BL1221	4	Lost Hills	Lost Hill Two	401I Gen	LH	N/A	19	26S	21E	MD	35.65747	-119.75305	058-110-13	Steam					Active	4		Pressure Relief valves x2 and 1inch bleed valves x2	< 1	PRV
BL1222	4	Lost Hills	Lost Hill Two	401J Gen	LH	N/A	19	26S	21E	MD	35.65734	-119.75305	058-110-13	Steam					Active	4		Pressure Relief valves x2 and 1inch bleed valves x2	< 1	PRV
BL1223	4	Lost Hills	Lost Hill Two	401K Gen	LH	N/A	19	26S	21E	MD	35.65784	-119.75324	058-110-13	Steam					Active	4		Pressure Relief valves x2 and 1inch bleed valves x2	< 1	PRV
BL1224	4	Lost Hills	Lost Hill Two	401L Gen	LH	N/A	19	26S	21E	MD	35.65772	-119.75324	058-110-13	Steam					Active	4		Pressure Relief valves x2 and 1inch bleed valves x2	< 1	PRV
BL1225		Lost Hills	Lost Hills C	7696 Splitter	LH	N/A	13	26S	20E	MD				Steam					Active	12		Energy Control Bleed Points x12	< 1	Blowdown
BL1226	2	Lost Hills	Lost Hills C	LH3E01-SS (Splitter)	LH	N/A	13	26S	20E	MD	35.67299	-119.76336	057-220-62	Steam					Active	25		Energy Control Bleed Points x25	< 1	Blowdown
BL1227		Lost Hills	Lost Hills C	LH3T01-SS (Splitter)	LH	N/A	13	26S	20E	MD				Steam					Active	12		Energy Control Bleed Points x12	< 1	Blowdown
BL1228	1	Lost Hills	Lost Hills C	STOL40-03 (Splitter)	LH	N/A	12	26S	20E	MD	35.67449	-119.76763	057-202-36	Steam					Active	16		Energy Control Bleed Points x16	< 1	Blowdown
BL1229	1	Lost Hills	Lost Hills C	STOL40-04 (Splitter)	LH	N/A	12	26S	20E	MD	35.67399	-119.76642	057-202-36	Steam					Active	16		Energy Control Bleed Points x16	< 1	Blowdown
BL1230		Lost Hills	Lost Hills C	LC9188-13	LC9188-13	N/A	13	26S	20E	MD	35.44479	-119.68628		Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector

Aera Energy LLC - Lost Hills Oil Field

Potential Discharge Locations

Short Identifier	Map Page Number	Field	Lease	Description/Name	Location	RWQCB Name	Sec.	T	R	BM	Latitude	Longitude	APN	Potential Fluid	L	W	D	Construction	Status	Number of Discharge Points	Additional Comments	Intended Use	Volume Discharged [bbl/yr]	Category
BL1231	2	Lost Hills	Lost Hills 3	LH3167-13	LH3167-13	N/A	13	26S	20E	MD	35.66988	-119.77271	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1232	2	Lost Hills	Lost Hills 3	LH5126R-13	LH5126R-13	N/A	13	26S	20E	MD	35.67029	-119.76135	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1233	3	Lost Hills	WEST GOVERNMENT	G5271-18	G5271-18	N/A	18	26S	21E	MD	35.66783	-119.75747	058-110-01	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1234	3	Lost Hills	PARAMOUNT LAND CO	G5148-18	G5148-18	N/A	18	26S	21E	MD	35.67042	-119.75903	058-110-01	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1235	2	Lost Hills	Lost Hills C	LC5153R-13	LC5153R-13	N/A	13	26S	20E	MD	35.66960	-119.76254	057-220-40	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1236	4	Lost Hills	Lost Hills II	L5064R-19	L5064R-19	N/A	19	26S	21E	MD	35.65818	-119.75332	058-110-13	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1237	2	Lost Hills	Lost Hills C	LC5158R-13	LC5158R-13	N/A	13	26S	20E	MD	35.66977	-119.76597	057-220-40	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1238	3	Lost Hills	WEST GOVERNMENT	G5174R-18	G5174R-18	N/A	18	26S	21E	MD	35.66989	-119.76008	058-110-01	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1239	3	Lost Hills	WEST GOVERNMENT	G5299-18	G5299-18	N/A	18	26S	21E	MD	35.66666	-119.75964	058-110-01	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1240	2	Lost Hills	Lost Hills 3	LH5129-13	LH5129-13	N/A	13	26S	20E	MD	35.67022	-119.76354	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1241	2	Lost Hills	Lost Hills C	LC5179-13	LC5179-13	N/A	13	26S	20E	MD	35.66893	-119.76369	057-220-40	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1242	3	Lost Hills	WEST GOVERNMENT	G5242-18	G5242-18	N/A	18	26S	21E	MD	35.66802	-119.75526	058-110-01	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1243	2	Lost Hills	SUPERIOUR COURT OF C	MD3266A-13	MD3266A-13	N/A	13	26S	20E	MD	35.66730	-119.77196	057-220-54	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1244	2	Lost Hills	SUPERIOUR COURT OF C	MD508R-13	MD508R-13	N/A	13	26S	20E	MD	35.66462	-119.76667	057-220-54	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1245	2	Lost Hills	Lost Hills 3	LH3065R-13	LH3065R-13	N/A	13	26S	20E	MD	35.67193	-119.77202	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1246	2	Lost Hills	SUPERIOUR COURT OF C	MD3240-13	MD3240-13	N/A	13	26S	20E	MD	35.66804	-119.77108	057-220-54	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1247	2	Lost Hills	Lost Hills 3	LH5008-13	LH5008-13	N/A	13	26S	20E	MD	35.67320	-119.76654	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1248	2	Lost Hills	Lost Hills 3	LH5135R-13	LH5135R-13	N/A	13	26S	20E	MD	35.67027	-119.76762	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1249	3	Lost Hills	WEST GOVERNMENT	G3-10A-18	G3-10A-18	N/A	18	26S	21E	MD	35.66197	-119.75636	058-110-50	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1250	2	Lost Hills	Lost Hills 3	LH3165R-13	LH3165R-13	N/A	13	26S	20E	MD	35.67000	-119.77136	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1251	2	Lost Hills	SUPERIOUR COURT OF C	MD3313A-13	MD3313A-13	N/A	13	26S	20E	MD	35.66601	-119.77005	057-220-54	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1252	2	Lost Hills	Lost Hills 3	LH5105R-13	LH5105R-13	N/A	13	26S	20E	MD	35.67104	-119.76395	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1253	3	Lost Hills	WEST GOVERNMENT	G5221-18	G5221-18	N/A	18	26S	21E	MD	35.66889	-119.75763	058-110-01	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1254	3	Lost Hills	WEST GOVERNMENT	G9550-18	G9550-18	N/A	18	26S	21E	MD	35.66121	-119.76071	058-110-50	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1255	4	Lost Hills	Lost Hills II	L5041-19	L5041-19	N/A	19	26S	21E	MD	35.65819	-119.75448	058-110-13	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1256	3	Lost Hills	WEST GOVERNMENT	G5292-18	G5292-18	N/A	18	26S	21E	MD	35.66691	-119.75501	058-110-01	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1257	4	Lost Hills	Lost Hills II	L9074-19	L9074-19	N/A	19	26S	21E	MD	35.65788	-119.75958	058-110-13	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1258	2	Lost Hills	Lost Hills C	LC3190D-13	LC3190D-13	N/A	13	26S	20E	MD	35.66903	-119.77138	057-220-40	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1259	3	Lost Hills	WEST GOVERNMENT	G5274-18	G5274-18	N/A	18	26S	21E	MD	35.66758	-119.75978	058-110-01	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1260	2	Lost Hills	Lost Hills 2B	L38-BR-13	L38-BR-13	N/A	13	26S	20E	MD	35.66264	-119.76138	057-220-12	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1261	3	Lost Hills	WEST GOVERNMENT	G5250-18	G5250-18	N/A	18	26S	21E	MD	35.66801	-119.76073	058-110-01	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1262	2	Lost Hills	SUPERIOUR COURT OF C	MD322-13	MD322-13	N/A	13	26S	20E	MD	35.66322	-119.76117	057-220-54	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1263	4	Lost Hills	BANKLINE	BK5137R-19	BK5137R-19	N/A	19	26S	21E	MD	35.65569	-119.75188	058-110-26	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1264	1	Lost Hills	United	UN9012R-12	UN9012R-12	N/A	12	26S	20E	MD	35.67449	-119.77208	057-202-58	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1265	2	Lost Hills	Lost Hills 3	LH3118R-13	LH3118R-13	N/A	13	26S	20E	MD	35.67092	-119.77334	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1266	2	Lost Hills	SUPERIOUR COURT OF C	MD521R-13	MD521R-13	N/A	13	26S	20E	MD	35.66756	-119.76668	057-220-54	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1267	1	Lost Hills	THEDA OIL & LAND CO	TOL5538-12	TOL5538-12	N/A	12	26S	20E	MD	35.67560	-119.76975	057-202-36	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1268	2	Lost Hills	Lost Hills C	LC5179A-13	LC5179A-13	N/A	13	26S	20E	MD	35.66898	-119.76371	057-220-40	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1269	3	Lost Hills	WEST GOVERNMENT	G4-10B-18	G4-10B-18	N/A	18	26S	21E	MD	35.66159	-119.75564	058-110-50	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1270	3	Lost Hills	PARAMOUNT LAND CO	G5098-18	G5098-18	N/A	18	26S	21E	MD	35.67152	-119.75922	058-110-01	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1271	2	Lost Hills	SUPERIOUR COURT OF C	MD3364A-13	MD3364A-13	N/A	13	26S	20E	MD	35.66500	-119.77065	057-220-54	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1272	2	Lost Hills	Lost Hills 3	LH5133-13	LH5133-13	N/A	13	26S	20E	MD	35.67053	-119.76675	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1273	3	Lost Hills	PARAMOUNT LAND CO	G5075-18	G5075-18	N/A	18	26S	21E	MD	35.67203	-119.76043	058-110-01	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1274	3	Lost Hills	PARAMOUNT LAND CO	G5050-18	G5050-18	N/A	18	26S	21E	MD	35.67308	-119.76061	058-110-01	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector

Aera Energy LLC - Lost Hills Oil Field

Potential Discharge Locations

Short Identifier	Map Page Number	Field	Lease	Description/Name	Location	RWQCB Name	Sec.	T	R	BM	Latitude	Longitude	APN	Potential Fluid	L	W	D	Construction	Status	Number of Discharge Points	Additional Comments	Intended Use	Volume Discharged (bbl/yr)	Category
BL1275	2	Lost Hills	Lost Hills 3	LH5005-13	LH5005-13	N/A	13	26S	20E	MD	35.67337	-119.76423	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1276	2	Lost Hills	UPERIOUR COURT OF C	MD3264A-13	MD3264A-13	N/A	13	26S	20E	MD	35.66746	-119.77095	057-220-54	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1277	2	Lost Hills	Lost Hills C	LC5158R1-13	LC5158R1-13	N/A	13	26S	20E	MD	35.66971	-119.76595	057-220-40	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1278	2	Lost Hills	Lost Hills 3	LH5052R-13	LH5052R-13	N/A	13	26S	20E	MD	35.67248	-119.76189	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1279	2	Lost Hills	UPERIOUR COURT OF C	MD307R-13	MD307R-13	N/A	13	26S	20E	MD	35.66760	-119.76320	057-220-54	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1280	1	Lost Hills	THEDA OIL & LAND CO	TOL5585-12	TOL5585-12	N/A	12	26S	20E	MD	35.67457	-119.76738	057-202-36	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1281	1	Lost Hills	THEDA OIL & LAND CO	TOL5613-12	TOL5613-12	N/A	12	26S	20E	MD	35.67362	-119.76971	057-202-36	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1282	4	Lost Hills	BANKLINE	BK5187-19	BK5187-19	N/A	19	26S	21E	MD	35.65455	-119.75152	058-110-26	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1283	4	Lost Hills	Lost Hills II	L9024R1-19	L9024R1-19	N/A	19	26S	21E	MD	35.65858	-119.75977	058-110-13	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1284	4	Lost Hills	Lost Hills II	L6-12BR-19	L6-12BR-19	N/A	19	26S	21E	MD	35.65912	-119.75341	058-110-13	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1285	3	Lost Hills	WEST GOVERNMENT	G5224-18	G5224-18	N/A	18	26S	21E	MD	35.66873	-119.76001	058-110-01	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1286	3	Lost Hills	WEST GOVERNMENT	G5370-18	G5370-18	N/A	18	26S	21E	MD	35.66550	-119.75726	058-110-50	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1287	2	Lost Hills	UPERIOUR COURT OF C	MD3289A-13	MD3289A-13	N/A	13	26S	20E	MD	35.66672	-119.77050	057-220-54	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1288	2	Lost Hills	Lost Hills 3	LH5128R-13	LH5128R-13	N/A	13	26S	20E	MD	35.67070	-119.76264	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1289	2	Lost Hills	Lost Hills C	LC5176-13	LC5176-13	N/A	13	26S	20E	MD	35.66918	-119.76124	057-220-40	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1290	2	Lost Hills	Lost Hills C	LC5156-13	LC5156-13	N/A	13	26S	20E	MD	35.66964	-119.76448	057-220-40	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1291	3	Lost Hills	WEST GOVERNMENT	G5295-18	G5295-18	N/A	18	26S	21E	MD	35.66670	-119.75739	058-110-01	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1292	3	Lost Hills	WEST GOVERNMENT	G5193-18	G5193-18	N/A	18	26S	21E	MD	35.66958	-119.75661	058-110-01	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1293	2	Lost Hills	Lost Hills 3	LHTO35-13	LHTO35-13	N/A	13	26S	20E	MD	35.67263	-119.76797	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1294	2	Lost Hills	Lost Hills 3	LH5081R-13	LH5081R-13	N/A	13	26S	20E	MD	35.67169	-119.76491	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1295	1	Lost Hills	THEDA OIL & LAND CO	TOL5561-12	TOL5561-12	N/A	12	26S	20E	MD	35.67510	-119.76850	057-202-36	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1296	1	Lost Hills	THEDA OIL & LAND CO	TOL5610-12	TOL5610-12	N/A	12	26S	20E	MD	35.67369	-119.76768	057-202-36	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1297	2	Lost Hills	Lost Hills 3	LH5083-13	LH5083-13	N/A	13	26S	20E	MD	35.67118	-119.76596	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1298	3	Lost Hills	WEST GOVERNMENT	G5171-18	G5171-18	N/A	18	26S	21E	MD	35.66984	-119.75778	058-110-01	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1299	2	Lost Hills	Lost Hills 3	LH3072-13	LH3072-13	N/A	13	26S	20E	MD	35.67179	-119.77641	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1300	3	Lost Hills	WEST GOVERNMENT	G5300-18	G5300-18	N/A	18	26S	21E	MD	35.66714	-119.76077	058-110-01	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1301	2	Lost Hills	Lost Hills C	LC9164-13	LC9164-13	N/A	13	26S	20E	MD	35.66951	-119.77023	057-220-40	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1302	3	Lost Hills	WEST GOVERNMENT	G5318R-18	G5318R-18	N/A	18	26S	21E	MD	35.66626	-119.75600	058-110-50	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1303	3	Lost Hills	WEST GOVERNMENT	G2-9BR-18	G2-9BR-18	N/A	18	26S	21E	MD	35.66326	-119.75811	058-110-50	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1304	3	Lost Hills	WEST GOVERNMENT	G5219-18	G5219-18	N/A	18	26S	21E	MD	35.66852	-119.75634	058-110-01	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1305	3	Lost Hills	WEST GOVERNMENT	G2-11B-18	G2-11B-18	N/A	18	26S	21E	MD	35.66072	-119.76008	058-110-50	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1306	3	Lost Hills	WEST GOVERNMENT	G1-6D-18	G1-6D-18	N/A	18	26S	21E	MD	35.66602	-119.76076	058-110-50	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1307	3	Lost Hills	PARAMOUNT LAND CO	G5125-18	G5125-18	N/A	18	26S	21E	MD	35.67104	-119.76029	058-110-01	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1308	2	Lost Hills	Lost Hills 3	LH5032-13	LH5032-13	N/A	13	26S	20E	MD	35.67264	-119.76525	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1309	3	Lost Hills	WEST GOVERNMENT	G5297-18	G5297-18	N/A	18	26S	21E	MD	35.66715	-119.75870	058-110-01	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1310	3	Lost Hills	WEST GOVERNMENT	G5-12BR-18	G5-12BR-18	N/A	18	26S	21E	MD	35.66006	-119.75423	058-110-50	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1311	1	Lost Hills	United	UN9014R-12	UN9014R-12	N/A	12	26S	20E	MD	35.67369	-119.77140	057-202-58	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1312	2	Lost Hills	Lost Hills C	LC3247R-13	LC3247R-13	N/A	13	26S	20E	MD	35.66893	-119.77233	057-220-40	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1313	2	Lost Hills	Lost Hills C	LC5183R1-13	LC5183R1-13	N/A	13	26S	20E	MD	35.66918	-119.76705	057-220-40	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1314	2	Lost Hills	Lost Hills C	LC5208R-13	LC5208R-13	N/A	13	26S	20E	MD	35.66875	-119.76627	057-220-40	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1315	1	Lost Hills	THEDA OIL & LAND CO	TOL5588-12	TOL5588-12	N/A	12	26S	20E	MD	35.67451	-119.76975	057-202-36	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1316	4	Lost Hills	Lost Hills II	L5139A-19	L5139A-19	N/A	19	26S	21E	MD	35.65595	-119.75297	058-110-13	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1317	3	Lost Hills	WEST GOVERNMENT	G5198-18	G5198-18	N/A	18	26S	21E	MD	35.66937	-119.75883	058-110-01	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1318	3	Lost Hills	WEST GOVERNMENT	G5247-18	G5247-18	N/A	18	26S	21E	MD	35.66817	-119.75868	058-110-01	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector

Aera Energy LLC - Lost Hills Oil Field
Potential Discharge Locations

Short Identifier	Map Page Number	Field	Lease	Description/Name	Location	RWQCB Name	Sec.	T	R	BM	Latitude	Longitude	APN	Potential Fluid	L	W	D	Construction	Status	Number of Discharge Points	Additional Comments	Intended Use	Volume Discharged [bbl/yr]	Category
BL1319	2	Lost Hills	Lost Hills 3	LH5078-13	LH5078-13	N/A	13	26S	20E	MD	35.67185	-119.76269	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1320	3	Lost Hills	WEST GOVERNMENT	G5392-18	G5392-18	N/A	18	26S	21E	MD	35.66481	-119.75472	058-110-50	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1321	2	Lost Hills	Lost Hills 3	LH5055-13	LH5055-13	N/A	13	26S	20E	MD	35.67235	-119.76390	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1322	2	Lost Hills	Lost Hills 3	LH5058R-13	LH5058R-13	N/A	13	26S	20E	MD	35.67206	-119.76657	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1323	3	Lost Hills	PARAMOUNT LAND CO	G5120-18	G5120-18	N/A	18	26S	21E	MD	35.67112	-119.75808	058-110-01	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1324	3	Lost Hills	WEST GOVERNMENT	G4-12BR-18	G4-12BR-18	N/A	18	26S	21E	MD	35.65927	-119.75482	058-110-50	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1325	3	Lost Hills	WEST GOVERNMENT	G5366-18	G5366-18	N/A	18	26S	21E	MD	35.66538	-119.75362	058-110-50	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1326	2	Lost Hills	Lost Hills 3	LH52R-13	LH52R-13	N/A	13	26S	20E	MD	35.67163	-119.77016	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1327	3	Lost Hills	WEST GOVERNMENT	G5322-18	G5322-18	N/A	18	26S	21E	MD	35.66621	-119.75832	058-110-50	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1328	1	Lost Hills	THEDA OIL & LAND CO	TOL5608-12	TOL5608-12	N/A	12	26S	20E	MD	35.67405	-119.76617	057-202-36	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1329	3	Lost Hills	WEST GOVERNMENT	G1-8R-18	G1-8R-18	N/A	18	26S	21E	MD	35.66462	-119.76018	058-110-50	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1330	2	Lost Hills	Lost Hills 3	LH5012-13	LH5012-13	N/A	13	26S	20E	MD	35.67311	-119.76939	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1331	2	Lost Hills	Lost Hills 3	LH9112R-13	LH9112R-13	N/A	13	26S	20E	MD	35.67086	-119.76929	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1332	2	Lost Hills	Lost Hills 3	LH5002-13	LH5002-13	N/A	13	26S	20E	MD	35.67346	-119.76187	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1333	2	Lost Hills	UPERIOUR COURT OF C	MD3340A-13	MD3340A-13	N/A	13	26S	20E	MD	35.66581	-119.77109	057-220-54	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1334	4	Lost Hills	Lost Hills II	L5189-19	L5189-19	N/A	19	26S	21E	MD	35.65472	-119.75300	058-110-13	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1335	2	Lost Hills	Lost Hills C	LC5202R-13	LC5202R-13	N/A	13	26S	20E	MD	35.66856	-119.76241	057-220-40	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1336	3	Lost Hills	WEST GOVERNMENT	G5368-18	G5368-18	N/A	18	26S	21E	MD	35.66525	-119.75584	058-110-50	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1337	2	Lost Hills	Lost Hills 3	LH48-13	LH48-13	N/A	13	26S	20E	MD	35.67290	-119.77077	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1338	2	Lost Hills	UPERIOUR COURT OF C	MD3290A-13	MD3290A-13	N/A	13	26S	20E	MD	35.66652	-119.77150	057-220-54	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1339	2	Lost Hills	Lost Hills C	LCTO211-13	LCTO211-13	N/A	13	26S	20E	MD	35.66868	-119.76992	057-220-40	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1340	3	Lost Hills	WEST GOVERNMENT	G1-12D-18	G1-12D-18	N/A	18	26S	21E	MD	35.65947	-119.76005	058-110-50	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1341	2	Lost Hills	Lost Hills 3	LH3068-13	LH3068-13	N/A	13	26S	20E	MD	35.67176	-119.77324	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1342	2	Lost Hills	UPERIOUR COURT OF C	MD3241-13	MD3241-13	N/A	13	26S	20E	MD	35.66811	-119.77213	057-220-54	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1343	2	Lost Hills	Lost Hills C	LC5181R-13	LC5181R-13	N/A	13	26S	20E	MD	35.66915	-119.76523	057-220-40	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1344	2	Lost Hills	Lost Hills 3	LH5131R-13	LH5131R-13	N/A	13	26S	20E	MD	35.67052	-119.76547	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1345	1	Lost Hills	THEDA OIL & LAND CO	TOL5611-12	TOL5611-12	N/A	12	26S	20E	MD	35.67402	-119.76851	057-202-36	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1346	3	Lost Hills	WEST GOVERNMENT	G2-8A-18	G2-8A-18	N/A	18	26S	21E	MD	35.66453	-119.75781	058-110-50	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1347	2	Lost Hills	UPERIOUR COURT OF C	MD313R-13	MD313R-13	N/A	13	26S	20E	MD	35.66367	-119.76189	057-220-54	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1348	2	Lost Hills	Lost Hills 3	LH5076-13	LH5076-13	N/A	13	26S	20E	MD	35.67141	-119.76144	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1349	2	Lost Hills	Lost Hills 3	LH3034-13	LH3034-13	N/A	13	26S	20E	MD	35.67268	-119.77353	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1350	2	Lost Hills	Lost Hills 3	LH5028R-13	LH5028R-13	N/A	13	26S	20E	MD	35.67288	-119.76290	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1351	2	Lost Hills	UPERIOUR COURT OF C	MD308R-13	MD308R-13	N/A	13	26S	20E	MD	35.66767	-119.76197	057-220-54	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1352	2	Lost Hills	Lost Hills 2B	LEI12B-13	LEI12B-13	N/A	13	26S	20E	MD	35.65986	-119.76627	057-220-12	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1353	3	Lost Hills	WEST GOVERNMENT	G5342-18	G5342-18	N/A	18	26S	21E	MD	35.66579	-119.75486	058-110-50	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1354	2	Lost Hills	Lost Hills C	LC9210-13	LC9210-13	N/A	13	26S	20E	MD	35.66899	-119.76762	057-220-40	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1355	2	Lost Hills	UPERIOUR COURT OF C	MD310-13	MD310-13	N/A	13	26S	20E	MD	35.66576	-119.76215	057-220-54	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1356	2	Lost Hills	Lost Hills 3	LH3116-13	LH3116-13	N/A	13	26S	20E	MD	35.67078	-119.77180	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1357	2	Lost Hills	Lost Hills C	LC9161-13	LC9161-13	N/A	13	26S	20E	MD	35.66984	-119.76828	057-220-40	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1358	2	Lost Hills	Lost Hills 3	LH5081R1-13	LH5081R1-13	N/A	13	26S	20E	MD	35.67165	-119.76504	057-220-62	Steam					Active	6		Pressure Relief valves x1 and 2 inch bleed valves x3	< 1	Steam Injector
BL1700	2	Lost Hills	LH 13	LH Cogen 13 Unit #6	Cogen 13	N/A	13	26S	20E	MD	35.66563	-119.76683	057-220-54	Produced Water				Other	Active	4		To relieve pressure		PRV
BL1701	2	Lost Hills	LH 13	LH Cogen 13 Unit #5	Cogen 13	N/A	13	26S	20E	MD	35.66577	-119.76689	057-220-53	Produced Water				Other	Active	4		To relieve pressure		PRV
BL1702	2	Lost Hills	LH 13	LH Cogen 13 Unit #4	Cogen 13	N/A	13	26S	20E	MD	35.66592	-119.76695	057-220-53	Produced Water				Other	Active	4		To relieve pressure		PRV

Aera Energy LLC - Lost Hills Oil Field

Potential Discharge Locations

Short Identifier	Map Page Number	Field	Lease	Description/Name	Location	RWQCB Name	Sec.	T	R	BM	Latitude	Longitude	APN	Potential Fluid	L	W	D	Construction	Status	Number of Discharge Points	Additional Comments	Intended Use	Volume Discharged [bbl/yr]	Category
BL1703	2	Lost Hills	LH 13	LH Cogen 13	Cogen 13	N/A	13	26S	20E	MD	35.66601	-119.76693	057-220-53	Produced Water	100	4	4	Concrete	Active	3	In the event valve leak water will flow into corridor and out to the field north of the facility	Corridor		Other
BL1704	2	Lost Hills	LH 13	Cogen 13 T-200 Blowdown tank	Cogen 13	N/A	13	26S	20E	MD	35.66677	-119.76696	057-220-54	Steam				Metal	Active	1		to receive cogen blow downs.		Blowdown pit
BL1705	2	Lost Hills	LH 13	LH 13 Tank F-104	LH 13	N/A	13	26S	20E	MD	35.66499	-119.76370	057-220-54	Produced Water	150'	46'	1'	Concrete	Active			To capture produced water in the event water spills from tank or associated equipment		Drain Pad
BL1706	2	Lost Hills	LH 13	4 produced water pumps	LH 13	N/A	13	26S	20E	MD	35.66507	-119.76358	057-220-54	Produced Water	35'	33	6"	Concrete	Active	4		Capture fluids from pumps		Drain Pad
BL1707	2	Lost Hills	LH 13	Manway on Tank F-104	LH 13	N/A	13	26S	20E	MD	35.66497	-119.76361	057-220-54	Produced Water	5'6"	4	3'6"	Concrete	Active	1	Located on East side of tank	Capture fluids when manway is removed		Drain Pit
BL1708	2	Lost Hills	LH 13	S-108	LH 13	N/A	13	26S	20E	MD	35.66504	-119.76371	057-220-54	Produced Water				Concrete	Active	1	Located just North of Tank	4' circumference		Other
BL1709	2	Lost Hills	LH 13	Overflow catch basin	LH 13	N/A	13	26S	20E	MD	35.66491	-119.76371	057-220-54	Produced Water	5'	5'	4'	Concrete	Active	1	Located on West side of tank	capture produced water in the event thank overflows		Drain Pit
BL1711	2	Lost Hills	LH 13	Pig receiver catch basin	LH 13	N/A	13	26S	20E	MD	35.66484	-119.76388	057-220-54	Produced Water	4'	4'	3'	HDPE	Active	1	Located West of tank	Catch fluid during piggging		Drain Pit
BL1713	6	Lost Hills	LH 1	Buried Scrubber	LH 1 CS	N/A	4	27S	21E	MD	35.60776	-119.72309	069-111-12	Oil & Water	30'	5'			Active	1	Scrubber (V-6)	Receive oil/water/gas		Other
BL1714	6	Lost Hills	LH 1	Buried Scrubber Pump Pads P-7A	LH 1 CS	N/A	4	27S	21E	MD	35.60775	-119.72303	069-111-12	Oil & Water	4	2	1	Concrete	Active	1		Capture fluid leaking from pump		Drain Pad
BL1715	6	Lost Hills	LH 1	Buried Scrubber Pump Pads P-7B	LH 1 CS	N/A	4	27S	21E	MD	35.60775	-119.72303	069-111-12	Oil & Water	4	2	1	Concrete	Active	1		Capture fluid leaking from pump		Drain Pad
BL1716	6	Lost Hills	LH 1	V13 Bleeder	LH 1 CS	N/A	4	27S	21E	MD	35.60778	-119.72294	069-111-12	Oil & Water	12'	9"	33"	Concrete	Active	1		Capture fluid from pump		Secondary Containment
BL1717	6	Lost Hills	LH 1	Containment Condensate Pumps V-7	LH 1 CS	N/A	4	27S	21E	MD	35.60769	-119.72342	069-111-12	Oil & Water	12'	7'	5"	Concrete	Active	1		Capture fluid from pump		Drain Pad
BL1720	4	Lost Hills	LH 2	Pit (EHP)	N of office	N/A	19	26S	21E	MD	35.64987	-119.74670	058-110-13	Produced Water	4'	4'	2'	Concrete	Active	1	Discharge to ground	Emergency Capture for F-303 spill		Drain Pit
BL1721	4	Lost Hills	LH 2	Containment HP Pump P-305	P-305	N/A	19	26S	21E	MD	35.65009	-119.74654	058-110-13	Produced Water	7'	18'	6"	Concrete	Active	1	Discharge to ground	Capture Produced Water		Drain Pad
BL1722	4	Lost Hills	LH 2	Containment HP Pump P-305A	P-305A	N/A	19	26S	21E	MD	35.65024	-119.74689	058-110-13	Produced Water	7'	18'	6"	Concrete	Inactive	1	Discharge to ground	Capture Produced Water		Drain Pad
BL1723	4	Lost Hills	LH 2	Containment HP Pump P-305C	P-305C	N/A	19	26S	21E	MD	35.65018	-119.74685	058-110-13	Produced Water	7'	18'	6"	Concrete	Active	1	Discharge to ground	Capture Produced Water		Drain Pad
BL1724	4	Lost Hills	LH 2	Secondary Containment Tank F-113	Tank F-113	N/A	19	26S	21E	MD	35.65011	-119.74684	058-110-13	Produced Water	86'	53'	3'	Gunite	Active	1	Discharge to ground	Emergency Capture for F-113 spill		Secondary Containment
BL1725	4	Lost Hills	LH 2	Pit inside tank F-113 containment	Tank F-113	N/A	19	26S	21E	MD	35.65021	-119.74671	058-110-13	Produced Water	3'	3'	3'	Concrete	Active	1	Discharge to ground	Pig launcher capture		Drain Pit
BL1728	4	Lost Hills	LH 2	Pit	N of heaters	N/A	19	26S	21E	MD	35.65000	-119.74596	058-110-13	Produced Water	4'	4'	3'	Concrete	Active	1	Discharge to ground	Emergency Capture		Drain Pit
BL1729	4	Lost Hills	LH 2	Containment for Lh2 LACT	L2 LACT	N/A	19	26S	21E	MD	35.64951	-119.74561	058-110-13	Oil & Water	26'	8'	6"	Concrete	Active	1	Discharge to sand basin listed in 1757	Capture Oil		Drain Pad
BL1730	4	Lost Hills	LH 2	Secondary Containment for Oil tanks	L2H2 Oil Plant	N/A	19	26S	21E	MD	35.64968	-119.74561	058-110-13	Oil & Water	174'	144'	14"	Concrete	Active	1	Discharge to sand basin listed in 1757	Capture Oil		Secondary Containment
BL1731	4	Lost Hills	LH 2	Secondary containment for transfer pumps	G-101A &G-101B	N/A	19	26S	21E	MD	35.64961	-119.74560	058-110-13	Oil & Water	19'	10.5'	6"	Concrete	Active	1	Discharge to sand basin listed in 1757	Capture Oil		Drain Pad
BL1732	4	Lost Hills	LH 2	Pit on Tank F-103	Tank F-103	N/A	19	26S	21E	MD	35.64947	-119.74562	058-110-13	Oil & Water	4'	3'	1'	Concrete	Active	1	Discharge to sand basin listed in 1757	Capture Oil		Drain Pit
BL1735	4	Lost Hills	LH 2	Pit on Tank F-104	Tank F-104	N/A	19	26S	21E	MD	35.64955	-119.74565	058-110-13	Oil & Water	4'	33'	1'	Concrete	Active	1	Discharge to sand basin listed in 1757	Capture Oil		Drain Pit
BL1737	4	Lost Hills	LH 2	Secondary Containment for SOGO LACT	SOGO LACT	N/A	19	26S	21E	MD	35.64920	-119.74551	058-110-13	Oil & Water	36'	6	6"	Concrete	Active			Capture Oil & Water		Drain Pad
BL1738	4	Lost Hills	LH 2	Manway vault for Tank F-106	F-106	N/A	19	26S	21E	MD	35.64929	-119.74557	058-110-13	Oil & Water	6'	5'	4'	Concrete	Active	1		Capture Oil & Water		Drain Pit
BL1739	4	Lost Hills	LH 2	Apron Vault for Tank F-106	F-106	N/A	19	26S	21E	MD	35.64936	-119.74583	058-110-13	Oil & Water	4'	2'	1'	Concrete	Active	1	Discharges into Sand Basin	Capture Oil & Water		Drain Pit
BL1741	4	Lost Hills	LH 2	SOGO Pump Secondary Containment	SOGO Pumps	N/A	19	26S	21E	MD	35.64938	-119.74551	058-110-13	Oil & Water	18'	9'	6"	Concrete	Inactive			Capture Oil & Water		Drain Pad
BL1742	4	Lost Hills	LH 2	Apron Vault for Tank F-105	F-105	N/A	19	26S	21E	MD	35.64932	-119.74568	058-110-13	Oil & Water	4'	2'	1'	Concrete	Active	3	Discharges into Sand Basin	Capture Oil & Water		Drain Pit
BL1744	4	Lost Hills	LH 2	Apron Vault for Tank F-102	F-102	N/A	19	26S	21E	MD	35.64940	-119.74577	058-110-13	Oil & Water	4'	2'	1'	Concrete	Active	1	Discharges into Sand Basin	Capture Oil & Water		Drain Pit
BL1745	4	Lost Hills	LH 2	Manway Vault for Tank F-102	F-102	N/A	19	26S	21E	MD	35.64941	-119.74583	058-110-13	Oil & Water	5'	5'	4'	Concrete	Active	1		Capture Oil & Water		Drain Pit
BL1746	4	Lost Hills	LH 2	Manway Vault for Tank F-108	F-108	N/A	19	26S	21E	MD	35.64938	-119.74593	058-110-13	Oil & Water	5'	2'	2'	Concrete	Active	2		Capture Oil & Water		Drain Pit
BL1747	4	Lost Hills	LH 2	Manway Vault for Tank F-109	F-109	N/A	19	26S	21E	MD	35.64920	-119.74580	058-110-13	Oil & Water	5'	2'	2'	Concrete	Active	1		Capture Oil & Water		Drain Pit
BL1748	4	Lost Hills	LH 2	SOGO Pump Secondary Containment	SOGO Pumps	N/A	19	26S	21E	MD	35.64922	-119.74571	058-110-13	Oil & Water	8'	8'	6'	Concrete	Active			Capture Oil & Water		Drain Pad
BL1751	4	Lost Hills	LH 2	Primary TVR Secondary Containment	Primary Tank TVR	N/A	19	26S	21E	MD	35.64886	-119.74564	058-110-13	Oil & Water	24'	8'	6"	Concrete	Active			Capture Oil & Water		Drain Pad
BL1752	4	Lost Hills	LH 2	Secondary Containment for Wemco's M-102A & M-102B	LH 2 Wemco's	N/A	19	26S	21E	MD	35.64927	-119.74627	058-110-13	Oil & Water	64'	40'	1'	Earthen	Active			Capture Oil & Water		Drain Pad
BL1753	4	Lost Hills	LH 2	Secondary Containment to Wemco Pumps	LH 2 Wemco's	N/A	19	26S	21E	MD	35.64921	-119.74647	058-110-13	Oil & Water	30'	6'	6"	Concrete	Active			Capture Oil & Water		Drain Pad
BL1754	4	Lost Hills	LH 2	Containment for Wemco's M-102A	LH 2 Wemco's	N/A	19	26S	21E	MD	35.64932	-119.74625	058-110-13	Oil & Water	30'	6'	6'	Concrete	Active			Capture Oil & Water		Drain Pad
BL1755	4	Lost Hills	LH 2	Containment for back-up TVR	Back-up TVR	N/A	19	26S	21E	MD	35.64922	-119.74612	058-110-13	Oil & Water	18'	12'	6'	Concrete	Active			Capture Oil & Water		Drain Pad
BL1756	4	Lost Hills	LH 2	Containment Basin for Tanks F-107A & F-107 B	Tanks F-107A & F-107B	N/A	19	26S	21E	MD	35.64929	-119.74626	058-110-13	Oil & Water	36'	18'	20'	Concrete	Active			Capture Oil & Water		Secondary Containment
BL1758	4	Lost Hills	LH 2	Containment for pumps G-313A & G-313B	LH 2 WP	N/A	19	26S	21E	MD	35.64899	-119.74722	058-110-13	Oil & Water	10'	8'	1	Concrete				Capture Produced Water		Drain Pad
BL1759	4	Lost Hills	LH 2	Containment for Pump G-312	LH 2 WP	N/A	19	26S	21E	MD	35.64928	-119.74671	058-110-13	Produced Water				Concrete				Capture Produced Water		Drain Pad

Aera Energy LLC - Lost Hills Oil Field

Potential Discharge Locations

Short Identifier	Map Page Number	Field	Lease	Description/Name	Location	RWQCB Name	Sec.	T	R	BM	Latitude	Longitude	APN	Potential Fluid	L	W	D	Construction	Status	Number of Discharge Points	Additional Comments	Intended Use	Volume Discharged [bbl/yr]	Category
BL1760	4	Lost Hills	LH 2	Tank F-309 Containment	LH 2 WP	N/A	19	26S	21E	MD	35.64928	-119.74681	058-110-13	Produced Water		6-8'	1'	Concrete	Active		Containment is all around the tank	Capture Produced Water		Secondary Containment
BL1761	4	Lost Hills	LH 2	Containment for MF Pumps 314A & 314B	LH 2 WP	N/A	19	26S	21E	MD	35.64911	-119.74722	058-110-13	Produced Water	25'	20'	4"	Concrete	Active			Capture Produced Water		Drain Pad
BL1762	4	Lost Hills	LH 2	Containment for walnut shell filters D-301A, D-301B, D-301C	LH 2 WP	N/A	19	26S	21E	MD	35.64928	-119.74689	058-110-13	Produced Water	36'	20'	18"	Concrete	Active			Capture Produced Water		Drain Pad
BL1763	4	Lost Hills	LH 2	Containment for WAC filters D-305A, D-305B, D-305C	LH 2 WP	N/A	19	26S	21E	MD	35.64970	-119.74699	058-110-13	Produced Water	36'	20'	18'	Concrete	Active			Capture Produced Water		Drain Pad
BL1764	4	Lost Hills	LH 2	Containment for tank F-308	LH 2 WP	N/A	19	26S	21E	MD	35.64979	-119.74699	058-110-13	Produced Water	40'	35'	4'	Concrete	Active			Capture Produced Water		Secondary Containment
BL1767	4	Lost Hills	LH 2	Containment for pumps which serve Tank F-304	LH 2 WP	N/A	19	26S	21E	MD	35.64950	-119.74657	058-110-13	Produced Water	12'	10'	1'	Concrete	Active			Capture Produced Water		Drain Pad
BL1768	4	Lost Hills	LH 2	Manway Vault for tank F-304	LH 2 WP	N/A	19	26S	21E	MD	35.64936	-119.74680	058-110-13	Produced Water	4'	4'	1	Concrete	Active			Capture Produced Water		Drain Pit
BL1770	4	Lost Hills	LH 2	Containment for Wemco's M-102B	Wemco 102A	N/A	19	26S	21E	MD	35.64932	-119.74625	058-110-13	Oil & Water	30'	6'	6'	Concrete	Active			Capture Oil & Water		Drain Pad
BL1771	4	Lost Hills	LH 2	LH 2 White Mountain	LH 2	N/A	19	26S	21E	MD	35.64936	-119.74487	058-110-13	Produced Water	470'	460'		Earthen	Active		This area stores the material that settles out in the water plant clarifier tnaks	Capture Produced Water		Other
BL1772	6	Lost Hills	LH 1	FWKO meter bleed	LH 1	N/A	4	27S	21E	MD	35.61321	-119.72439	069-111-11	Oil & Water	1/2" val				Active		1/2" valve on 3/8" tubing	fluid is drained to the ground		Other
BL1773	6	Lost Hills	LH 1	LH 1 Sand Basin	LH 1	Lost Hills 1 Sand Basin	4	27S	21E	MD	35.61329	-119.72444	069-111-11	Oil & Water	35'	22	7	Concrete	Active			Sand basin to separate solids from produced fluids		Sand pit/basin
BL1774	6	Lost Hills	LH 1	Facility Catch Basin mainly used for to catch rain water	LH 1	N/A	4	27S	21E	MD	35.61329	-119.72395	069-111-11	Oil & Water	2'	2'	3'	Concrete	Active			Capture Oil & water		Drain Pit
BL1775	6	Lost Hills	LH 1	LH 1 Primary TVR skid containment	LH 1	N/A	4	27S	21E	MD	35.61350	-119.72401	069-111-11	Oil & Water	32'	14'	6"	Concrete	Active			Capture Oil & water		Drain Pad
BL1776	6	Lost Hills	LH 1	Primary TVR scrubber drain pot which drains to sand basin	LH 1	N/A	4	27S	21E	MD	35.61356	-119.72407	069-111-11	Oil & Water	2.5' dia.			Metal	Active	2		Capture Oil & water		Drain Pit
BL1777	6	Lost Hills	LH 1	LH 1 Back-up TVR skid containment	LH 1	N/A	4	27S	21E	MD	35.61337	-119.72404	069-111-11	Oil & Water	24'	16'	4'	Concrete	Active			Capture Oil & water		Drain Pad
BL1778	6	Lost Hills	LH 1	Back-up TVR drain pot	LH 1	N/A	4	27S	21E	MD	35.61333	-119.72411	069-111-11	Oil & Water	2.5'	2	2	Concrete	Active	1		Capture Oil & water		Drain Pit
BL1779	6	Lost Hills	LH 1	Pumps 301-A & P-301B containment - drains to sand basin	LH 1	N/A	4	27S	21E	MD	35.61341	-119.72399	069-111-11	Produced Water	18'	18'	6'	Concrete	Active	6		Capture Oil & water		Drain Pad
BL1780	6	Lost Hills	LH 1	Tank F-3004 apron drain - drains to sand basin	LH 1	N/A	4	27S	21E	MD	35.61384	-119.72424	069-111-11	Oil & Water	3'	3'	2'	Metal	Active	3		Capture Oil & water		Drain Pit
BL1781	6	Lost Hills	LH 1	Tank F-3005 apron drain - drains to sand basin	LH 1	N/A	4	27S	21E	MD	35.61364	-119.72469	069-111-11	Oil & Water	3'	3'	22'	Metal	Active	2		Capture Oil & water		Drain Pit
BL1782	6	Lost Hills	LH 1	containment for bottom pumps 3004 & 3005 - drains to sand basin	LH 1	N/A	4	27S	21E	MD	35.61359	-119.72439	069-111-11	Oil & Water	21'	9'	4"	Concrete	Active	2		Capture Oil & water		Drain Pad
BL1783	6	Lost Hills	LH 1	Bleeder pots next to pumps 3004 & 3005	LH 1	N/A	4	27S	21E	MD	35.61358	-119.72433	069-111-11	Oil & Water	2.5' dia.			Metal	Active	1		Capture Oil & water		Other
BL1784	6	Lost Hills	LH 1	Secondary containment around LH 1 facility	LH 1	N/A	4	27S	21E	MD	35.61369	-119.72472	069-111-11	Oil & Water	450'	360'	18"	Earthen	Active			Capture Oil & water		Secondary Containment
BL1785	6	Lost Hills	LH 1	F-3009 Tank Overflow Line	LH 1	N/A	4	27S	21E	MD	35.61406	-119.72422	069-111-11	Oil & Water	8" Dia				Active	1		Capture Oil & water		Other
BL1786	6	Lost Hills	LH 1	F-3009 Apron drain valult	LH 1	N/A	4	27S	21E	MD	35.61405	-119.72417	069-111-11	Oil & Water	7'	2'	3'	Concrete	Active	1		Capture Oil & water		Drain Pit
BL1787	6	Lost Hills	LH 1	Tank F-3009 & F-3010 pump pad Containment	LH 1	N/A	4	27S	21E	MD	35.61383	-119.72419	069-111-11	Oil & Water	12'	8'	4"	Concrete	Active	4		Capture Oil & water		Drain Pad
BL1788	6	Lost Hills	LH 1	Tank F-3010 apron drain vault	LH 1	N/A	4	27S	21E	MD	35.61390	-119.72394	069-111-11	Oil & Water	4'	4'	4'	Concrete	Active	1		Capture Oil & Water		Drain Pit
BL1789	6	Lost Hills	LH 1	LACT Pump Skid containment	LH 1	N/A	4	27S	21E	MD	35.61366	-119.72388	069-111-11	Oil & Water	27'	9'	6'	Concrete	Active	8		Capture Oil & Water		Drain Pad
BL1790	6	Lost Hills	LH 1	LH 1 Oil Shipping Pumps	LH 1	N/A	4	27S	21E	MD	35.61352	-119.72393	069-111-11	Oil & Water	10'	3'	3"	Concrete	Active	12		Capture Oil & Water		Drain Pad
BL1791	6	Lost Hills	LH 1	G-3002 pump pad containment	LH 1	N/A	4	27S	21E	MD	35.61330	-119.72366	069-111-11	Produced Water	15'	10'	6"	Concrete	Active	5		Capture Oil & Water		Drain Pad
BL1792	6	Lost Hills	LH 1	G-3002 Pumps A-D pump pad containment	LH 1	N/A	4	27S	21E	MD	35.61347	-119.72363	069-111-11	Produced Water	39'	10'	6"	Concrete	Active	20		Capture Oil & Water		Drain Pad
BL1793	6	Lost Hills	LH 1	Pig Laucher/Catcher Basin for produced water Mercantile line	LH 1	N/A	4	27S	21E	MD	35.61323	-119.72342	069-111-11	Produced Water	8'	2'	1	Concrete	Active	1		Capture Oil & Water		Drain Pad
BL1794	6	Lost Hills	LH 1	12" Pig launcher LOGS line catch basin	LH 1	N/A	4	27S	21E	MD	35.61290	-119.72373	069-111-12	Oil & Water	5'	5'	4'	Concrete	Active	1		Capture Oil & Water		Drain Pad
BL1795	6	Lost Hills	LH 1	CS-7 Drain Pad on compressor setting. Drains to T-3	LH 1 CS	N/A	4	27S	21E	MD	35.60716	-119.72315	069-111-12	Oil & Water	60'	20'	18"	Concrete	Active	2		Capture Oil & Water		Drain Pad
BL1796	6	Lost Hills	LH 1	T-3 Drain Pit - Drains to orange scrubber	LH 1 CS	N/A	4	27S	21E	MD	35.60731	-119.72338	069-111-12	Oil & Water	4/	4'	?	Metal	Active	3		Capture Oil & Water		Drain Pit
BL1797	6	Lost Hills	LH 1	Containment for Compressor CS-5 Drains to T-3	LH 1 CS	N/A	4	27S	21E	MD	35.60742	-119.72348	069-111-12	Oil & Water	24'	20'	18"	Concrete	Active	2		Capture Oil & Water		Drain Pad
BL1798	6	Lost Hills	LH 1	Containment for Compressor CS-6 Drains to T-3	LH 1 CS	N/A	4	27S	21E	MD	35.60719	-119.72305	069-111-12	Oil & Water	24'	20'	18"	Concrete	Active	1		Capture Oil & Water		Drain Pad
BL2701	6	Lost Hills	Lost hills 1	LH01 P-100 pumps	P-100 pumps LH01	N/A	4	27S	21E	MD	35.61318	-119.72394	069-111-11	Produced Water	50'	22'	6"	Gunite	Active	38		Well Water Injection	< 5 barrels	Drain Pad
BL2702	6	Lost Hills	Lost hills 1	LH01 P-100 Pump Supply Relief valve	LH01	N/A	4	27S	21E	MD	35.61326	-119.72309	069-111-12	Produced Water					Active	2		Inlet supply line	< 1 barrel	PRV
BL2703	6	Lost Hills	Lost hills 1	8123D-4	LH01	N/A	4	27S	21E	MD	35.61333	-119.72290	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2704	6	Lost Hills	Lost hills 1	8042-4	LH01	N/A	4	27S	21E	MD	35.61507	-119.71859	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2710	6	Lost Hills	Lost hills 1	8117B-4	LH01	N/A	4	27S	21E	MD	35.61329	-119.71893	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector

Aera Energy LLC - Lost Hills Oil Field

Potential Discharge Locations

Short Identifier	Map Page Number	Field	Lease	Description/Name	Location	RWQCB Name	Sec.	T	R	BM	Latitude	Longitude	APN	Potential Fluid	L	W	D	Construction	Status	Number of Discharge Points	Additional Comments	Intended Use	Volume Discharged [bbl/yr]	Category
BL2712	6	Lost Hills	Lost hills 1	8319-4	LH01	N/A	4	27S	21E	MD	35.60855	-119.72048	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 Barrel	Water Injector
BL2713	6	Lost Hills	Lost hills 1	8242-4	LH01	N/A	4	27S	21E	MD	35.61043	-119.71886	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 Barrel	Water Injector
BL2714	6	Lost Hills	Lost hills 1	8323A-4	LH01	N/A	4	27S	21E	MD	35.60853	-119.72319	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 Barrel	Water Injector
BL2715	6	Lost Hills	Lost hills 1	8190C-4	LH01	N/A	4	27S	21E	MD	35.61149	-119.71758	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 Barrel	Water Injector
BL2718	6	Lost Hills	Lost hills 1	8325-4	LH01	N/A	4	27S	21E	MD	35.60845	-119.72483	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2721	6	Lost Hills	Lost hills 1	8190B-4	LH01	N/A	4	27S	21E	MD	35.61173	-119.71782	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2722	5	Lost Hills	Lost hills 1	8501-5	LH01	N/A	4	27S	21E	MD	35.60399	-119.72535	069-111-09	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2725	6	Lost Hills	Lost hills 1	8045A-4	LH01	N/A	4	27S	21E	MD	35.61524	-119.72125	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2727	6	Lost Hills	Lost hills 1	8199-4	LH01	N/A	4	27S	21E	MD	35.61154	-119.72415	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 BARREL	Water Injector
BL2741	6	Lost Hills	lost hills 1	8421A-4	LH01	N/A	4	27S	21E	MD	35.60617	-119.72162	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2742	6	Lost Hills	lost hills 1	8447A-4	LH01	N/A	4	27S	21E	MD	35.60537	-119.72322	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2743	6	Lost Hills	lost hills 1	8289A-4	LH01	N/A	4	27S	21E	MD	35.60899	-119.71728	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2745	6	Lost Hills	lost hills 1	8522-4	LH01	N/A	4	27S	21E	MD	35.60390	-119.72283	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2747	6	Lost Hills	lost hills 1	8498-4	LH01	N/A	4	27S	21E	MD	35.60442	-119.72330	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2748	6	Lost Hills	lost hills 1	8074D-4	LH01	N/A	4	27S	21E	MD	35.61434	-119.72430	069-111-11	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2749	6	Lost Hills	lost hills 1	8099A-4	LH01	N/A	4	27S	21E	MD	35.61399	-119.72349	069-111-11	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2750	6	Lost Hills	lost hills 1	8120C-4	LH01	N/A	4	27S	21E	MD	35.61324	-119.72125	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2751	6	Lost Hills	lost hills 1	8265B-4	LH01	N/A	4	27S	21E	MD	35.60984	-119.71793	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2752	6	Lost Hills	lost hills 1	8350A-4	LH01	N/A	4	27S	21E	MD	35.60796	-119.72469	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2753	6	Lost Hills	lost hills 1	8047A-4	LH01	N/A	4	27S	21E	MD	35.61502	-119.72281	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2754	6	Lost Hills	lost hills 1	8247C-4	LH01	N/A	4	27S	21E	MD	35.60975	-119.72279	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2755	6	Lost Hills	lost hills 1	8298C-4	LH01	N/A	4	27S	21E	MD	35.60890	-119.72318	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2756	6	Lost Hills	lost hills 1	8090A-4	LH01	N/A	4	27S	21E	MD	35.61382	-119.71784	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2757	6	Lost Hills	lost hills 1	8168B-4	LH01	N/A	4	27S	21E	MD	35.61209	-119.72011	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2758	6	Lost Hills	lost hills 1	8219A-4	LH01	N/A	4	27S	21E	MD	35.61046	-119.72063	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2759	6	Lost Hills	lost hills 1	8165A-4	LH01	N/A	4	27S	21E	MD	35.61199	-119.71793	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2760	6	Lost Hills	lost hills 1	8120B-4	LH01	N/A	4	27S	21E	MD	35.61309	-119.72117	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2761	6	Lost Hills	lost hills 1	8038-4	LH01	N/A	4	27S	21E	MD	35.61466	-119.71667	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2764	6	Lost Hills	lost hills 1	8014A-4	LH01	N/A	4	27S	21E	MD	35.61516	-119.71730	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2765	6	Lost Hills	lost hills 1	8217B-4	LH01	N/A	4	27S	21E	MD	35.61137	-119.71904	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2766	6	Lost Hills	lost hills 1	8292B-4	LH01	N/A	4	27S	21E	MD	35.60894	-119.71929	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2767	6	Lost Hills	lost hills 1	8125A-4	LH01	N/A	4	27S	21E	MD	35.61309	-119.72490	069-111-11	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2768	6	Lost Hills	lost hills 1	8371C-4	LH01	N/A	4	27S	21E	MD	35.60728	-119.72186	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2769	6	Lost Hills	lost hills 1	8374B-4	LH01	N/A	4	27S	21E	MD	35.60749	-119.72437	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2770	6	Lost Hills	lost hills 1	8374C-4	LH01	N/A	4	27S	21E	MD	35.60734	-119.72403	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2771	6	Lost Hills	lost hills 1	8423A-4	LH01	N/A	4	27S	21E	MD	35.60661	-119.72316	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2772	6	Lost Hills	lost hills 1	8472A-4	LH01	N/A	4	27S	21E	MD	35.60488	-119.72298	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2773	6	Lost Hills	lost hills 1	8093D-4	LH01	N/A	4	27S	21E	MD	35.61393	-119.71991	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2774	6	Lost Hills	lost hills 1	8139A-4	LH01	N/A	4	27S	21E	MD	35.61282	-119.71688	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2775	6	Lost Hills	lost hills 1	8271C-4	LH01	N/A	4	27S	21E	MD	35.60946	-119.72189	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2776	6	Lost Hills	lost hills 1	8265C-4	LH01	N/A	4	27S	21E	MD	35.60945	-119.71766	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2777	6	Lost Hills	lost hills 1	8150A-4	LH01	N/A	4	27S	21E	MD	35.61238	-119.72488	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2778	6	Lost Hills	lost hills 1	8349A-4	LH01	N/A	4	27S	21E	MD	35.60777	-119.72441	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2779	6	Lost Hills	lost hills 1	8449A-4	LH01	N/A	4	27S	21E	MD	35.60557	-119.72431	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector

Aera Energy LLC - Lost Hills Oil Field

Potential Discharge Locations

Short Identifier	Map Page Number	Field	Lease	Description/Name	Location	RWQCB Name	Sec.	T	R	BM	Latitude	Longitude	APN	Potential Fluid	L	W	D	Construction	Status	Number of Discharge Points	Additional Comments	Intended Use	Volume Discharged [bbl/yr]	Category
BL2780	6	Lost Hills	lost hills 1	8193B-4	LH01	N/A	4	27S	21E	MD	35.61165	-119.71990	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2781	6	Lost Hills	lost hills 1	8047B-4	LH01	N/A	4	27S	21E	MD	35.61485	-119.72268	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2782	6	Lost Hills	lost hills 1	8048-4	LH01	N/A	4	27S	21E	MD	35.61498	-119.72291	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2783	6	Lost Hills	lost hills 1	8068B-4	LH01	N/A	4	27S	21E	MD	35.61414	-119.72023	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2784	6	Lost Hills	lost hills 1	8147C-4	LH01	N/A	4	27S	21E	MD	35.61258	-119.72295	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2785	6	Lost Hills	lost hills 1	8198C-4	LH01	N/A	4	27S	21E	MD	35.61111	-119.72323	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2786	6	Lost Hills	lost hills 1	8142A-4	LH01	N/A	4	27S	21E	MD	35.61263	-119.71865	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2787	6	Lost Hills	lost hills 1	8166A-4	LH01	N/A	4	27S	21E	MD	35.61227	-119.71843	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2788	6	Lost Hills	lost hills 1	8098A-4	LH01	N/A	4	27S	21E	MD	35.61386	-119.72353	069-111-11	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2789	6	Lost Hills	lost hills 1	8044B-4	LH01	N/A	4	27S	21E	MD	35.61504	-119.72086	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2790	6	Lost Hills	lost hills 1	8021-4	LH01	N/A	4	27S	21E	MD	35.61554	-119.72162	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2791	6	Lost Hills	lost hills 1	8268B-4	LH01	N/A	4	27S	21E	MD	35.60964	-119.72002	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2792	6	Lost Hills	lost hills 1	8117A-4	LH01	N/A	4	27S	21E	MD	35.61344	-119.71925	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2793	6	Lost Hills	lost hills 1	8198B-4	LH01	N/A	4	27S	21E	MD	35.61136	-119.72395	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2794	6	Lost Hills	lost hills 1	8093C-4	LH01	N/A	4	27S	21E	MD	35.61364	-119.71983	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2795	6	Lost Hills	lost hills 1	8071C-4	LH01	N/A	4	27S	21E	MD	35.61407	-119.72193	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2796	6	Lost Hills	lost hills 1	8071B-4	LH01	N/A	4	27S	21E	MD	35.61485	-119.72240	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2797	6	Lost Hills	lost hills 1	8247B-4	LH01	N/A	4	27S	21E	MD	35.61029	-119.72287	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2798	6	Lost Hills	lost hills 1	451-4	LH01	N/A	4	27S	21E	MD	35.61448	-119.72029	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2799	6	Lost Hills	lost hills 1	8290A-4	LH01	N/A	4	27S	21E	MD	35.60934	-119.71749	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2800	6	Lost Hills	lost hills 1	8445A-4	LH01	N/A	4	27S	21E	MD	35.60560	-119.72152	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2801	6	Lost Hills	lost hills 1	8320C-4	LH01	N/A	4	27S	21E	MD	35.60868	-119.72056	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2802	6	Lost Hills	lost hills 1	8123C-4	LH01	N/A	4	27S	21E	MD	35.61365	-119.72330	069-111-11	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2803	6	Lost Hills	lost hills 1	8214B-4	LH01	N/A	4	27S	21E	MD	35.61107	-119.71709	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2804	6	Lost Hills	lost hills 1	8214C-4	LH01	N/A	4	27S	21E	MD	35.61136	-119.71740	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2805	6	Lost Hills	lost hills 1	8241B-4	LH01	N/A	4	27S	21E	MD	35.61027	-119.71803	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2806	6	Lost Hills	lost hills 1	8193C-4	LH01	N/A	4	27S	21E	MD	35.61139	-119.71960	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2807	6	Lost Hills	lost hills 1	8495A-4	LH01	N/A	4	27S	21E	MD	35.60471	-119.72166	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2808	6	Lost Hills	lost hills 1	8090B-4	LH01	N/A	4	27S	21E	MD	35.61364	-119.71757	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2809	6	Lost Hills	lost hills 1	8091A-4	LH01	N/A	4	27S	21E	MD	35.61412	-119.71820	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2810	6	Lost Hills	lost hills 1	8292C-4	LH01	N/A	4	27S	21E	MD	35.60930	-119.71969	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2811	6	Lost Hills	lost hills 1	8425A-4	LH01	N/A	4	27S	21E	MD	35.60605	-119.72490	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2812	6	Lost Hills	lost hills 1	8144D-4	LH01	N/A	4	27S	21E	MD	35.61252	-119.72076	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2813	6	Lost Hills	lost hills 1	8095A-4	LH01	N/A	4	27S	21E	MD	35.61354	-119.72124	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2814	6	Lost Hills	lost hills 1	8298D-4	LH01	N/A	4	27S	21E	MD	35.60901	-119.72410	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2815	6	Lost Hills	lost hills 1	8042A-4	LH01	N/A	4	27S	21E	MD	35.61513	-119.71928	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2816	6	Lost Hills	lost hills 1	8222A-4	LH01	N/A	4	27S	21E	MD	35.61060	-119.72288	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2817	6	Lost Hills	lost hills 1	8171B-4	LH01	N/A	4	27S	21E	MD	35.61227	-119.72192	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2818	6	Lost Hills	lost hills 1	8239A-4	LH01	N/A	4	27S	21E	MD	35.61043	-119.71686	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2819	6	Lost Hills	lost hills 1	8314A-4	LH01	N/A	4	27S	21E	MD	35.60864	-119.71711	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2820	6	Lost Hills	lost hills 1	8174D-4	LH01	N/A	4	27S	21E	MD	35.61191	-119.72424	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2821	6	Lost Hills	lost hills 1	8346-4	LH01	N/A	4	27S	21E	MD	35.60743	-119.72211	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2822	5	Lost Hills	lost hills 1	8427A-5	LH01	N/A	4	27S	21E	MD	35.60527	-119.72604	069-111-09	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2823	6	Lost Hills	lost hills 1	8473-4	LH01	N/A	4	27S	21E	MD	35.60500	-119.72418	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector

Aera Energy LLC - Lost Hills Oil Field

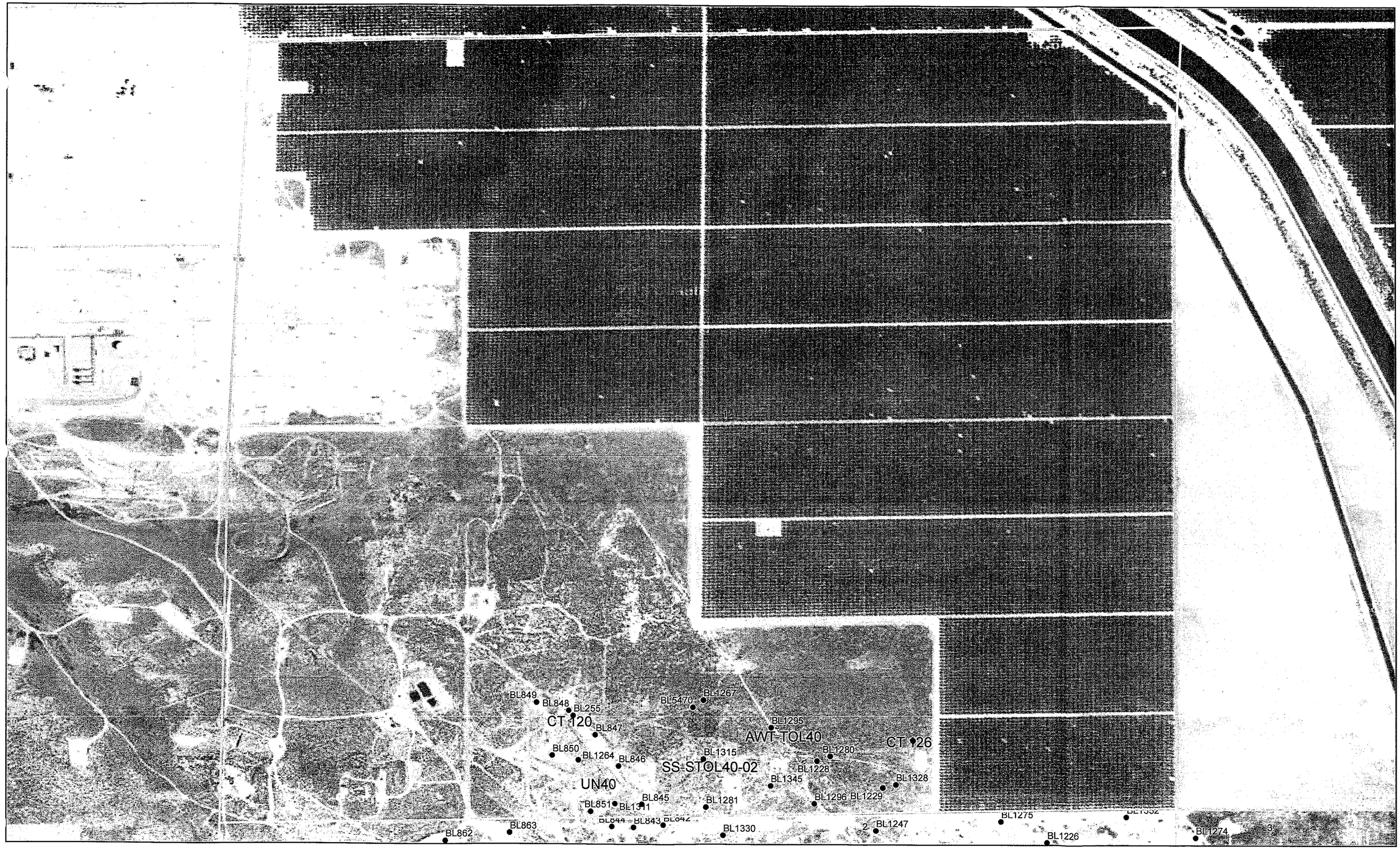
Potential Discharge Locations

Short Identifier	Map Page Number	Field	Lease	Description/Name	Location	RWQCB Name	Sec.	T	R	BM	Latitude	Longitude	APN	Potential Fluid	L	W	D	Construction	Status	Number of Discharge Points	Additional Comments	Intended Use	Volume Discharged [bbl/yr]	Category
BL2824	6	Lost Hills	lost hills 1	8295D-4	LH01	N/A	4	27S	21E	MD	35.60937	-119.72179	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2825	6	Lost Hills	lost hills 1	8317-4	LH01	N/A	4	27S	21E	MD	35.60870	-119.71908	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2826	6	Lost Hills	lost hills 1	8271B-4	LH01	N/A	4	27S	21E	MD	35.60971	-119.72212	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2827	6	Lost Hills	lost hills 1	8015B-4	LH01	N/A	4	27S	21E	MD	35.61556	-119.71770	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2828	6	Lost Hills	lost hills 1	8066B-4	LH01	N/A	4	27S	21E	MD	35.61498	-119.71837	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2829	6	Lost Hills	lost hills 1	8015A-4	LH01	N/A	4	27S	21E	MD	35.61545	-119.71746	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2830	6	Lost Hills	lost hills 1	8546A-4	LH01	N/A	4	27S	21E	MD	35.60335	-119.72207	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2831	6	Lost Hills	lost hills 1	8114C-4	LH01	N/A	4	27S	21E	MD	35.61334	-119.71734	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2832	6	Lost Hills	lost hills 1	8243A-4	LH01	N/A	4	27S	21E	MD	35.61008	-119.72028	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2833	6	Lost Hills	lost hills 1	8241A-4	LH01	N/A	4	27S	21E	MD	35.61040	-119.71853	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2834	6	Lost Hills	lost hills 1	8196A-4	LH01	N/A	4	27S	21E	MD	35.61176	-119.72184	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2835	6	Lost Hills	lost hills 1	8347A-4	LH01	N/A	4	27S	21E	MD	35.60849	-119.72202	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2836	6	Lost Hills	lost hills 1	8398A-4	LH01	N/A	4	27S	21E	MD	35.60669	-119.72323	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2837	6	Lost Hills	lost hills 1	8144C-4	LH01	N/A	4	27S	21E	MD	35.61285	-119.72099	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2838	6	Lost Hills	lost hills 1	8147B-4	LH01	N/A	4	27S	21E	MD	35.61321	-119.72285	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2839	6	Lost Hills	lost hills 1	8096A-4	LH01	N/A	4	27S	21E	MD	35.61395	-119.72177	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2840	6	Lost Hills	lost hills 1	8044C-4	LH01	N/A	4	27S	21E	MD	35.61477	-119.72057	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2841	6	Lost Hills	lost hills 1	8066A-4	LH01	N/A	4	27S	21E	MD	35.61436	-119.71848	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2842	6	Lost Hills	lost hills 1	8220C-4	LH01	N/A	4	27S	21E	MD	35.61085	-119.72121	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2843	6	Lost Hills	lost hills 1	8020A-4	LH01	N/A	4	27S	21E	MD	35.61551	-119.72151	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2844	6	Lost Hills	lost hills 1	8114D-4	LH01	N/A	4	27S	21E	MD	35.61281	-119.71701	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2846	6	Lost Hills	lost hills 1	8138B-4	LH01	N/A	4	27S	21E	MD	35.61276	-119.71676	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2847	6	Lost Hills	lost hills 1	8141B-4	LH01	N/A	4	27S	21E	MD	35.61235	-119.71863	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2848	6	Lost Hills	lost hills 1	8169B-4	LH01	N/A	4	27S	21E	MD	35.61217	-119.72032	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2849	6	Lost Hills	lost hills 1	8195B-4	LH01	N/A	4	27S	21E	MD	35.61134	-119.72164	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2850	6	Lost Hills	lost hills 1	8217C-4	LH01	N/A	4	27S	21E	MD	35.61082	-119.71909	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2851	6	Lost Hills	lost hills 1	8220D-4	LH01	N/A	4	27S	21E	MD	35.61119	-119.72137	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2852	6	Lost Hills	lost hills 1	8223B-4	LH01	N/A	4	27S	21E	MD	35.61073	-119.72328	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2853	6	Lost Hills	lost hills 1	8268C-4	LH01	N/A	4	27S	21E	MD	35.60958	-119.71982	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2854	6	Lost Hills	lost hills 1	8274B-4	LH01	N/A	4	27S	21E	MD	35.60936	-119.72410	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2856	6	Lost Hills	lost hills 1	8322B-4	LH01	N/A	4	27S	21E	MD	35.60848	-119.72305	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2857	6	Lost Hills	lost hills 1	8249A-4	LH01	N/A	4	27S	21E	MD	35.60983	-119.72431	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2858	6	Lost Hills	lost hills 1	8573A-4	LH01	N/A	4	27S	21E	MD	35.60249	-119.72341	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2859	6	Lost Hills	lost hills 1	8017C-4	LH01	N/A	4	27S	21E	MD	35.61551	-119.71945	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2860	6	Lost Hills	lost hills 1	8039A-4	LH01	N/A	4	27S	21E	MD	35.61498	-119.71685	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2861	6	Lost Hills	lost hills 1	8050A-4	LH01	N/A	4	27S	21E	MD	35.61475	-119.72494	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2862	6	Lost Hills	lost hills 1	8068C-4	LH01	N/A	4	27S	21E	MD	35.61444	-119.72038	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2863	6	Lost Hills	lost hills 1	8171C-4	LH01	N/A	4	27S	21E	MD	35.61180	-119.72191	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL2864	6	Lost Hills	lost hills 1	8244B-4	LH01	N/A	4	27S	21E	MD	35.61035	-119.72051	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL5464	4	Lost Hills	Lost Hills Two	Steam Splitter LT201	Lost Hills	N/A	19	26S	21E	MD	35.65681	-119.75291	058-110-13	Steam					Active	12		12 blow down points used for energy control	< 1	Blowdown
BL5465	3	Lost Hills	Lost Hills Two	Steam Splitter L2BO3	Lost Hills	N/A	19	26S	21E	MD	35.66057	-119.75895	058-110-50	Steam					Active	12		12 blow down points used for energy control	< 1	Blowdown
BL5466	2	Lost Hills	Lost Hills Three	Steam Splitter L3E01	Lost Hills	N/A	13	26S	20E	MD	35.67011	-119.76525	057-220-62	Steam					Active	12		12 blow down points used for energy control	< 1	Blowdown
BL5467		Lost Hills	Lost Hills Three	Steam Splitter L3T01	Lost Hills	N/A	13	26S	20E	MD				Steam					Active	12		12 blow down points used for energy control	< 1	Blowdown
BL5468	2	Lost Hills	Lost Hills Martin-Dudley	Steam Splitter LMDO1	Lost Hills	N/A	13	26S	20E	MD	35.66767	-119.76196	057-220-54	Steam					Active	12		12 blow down points used for energy control	< 1	Blowdown

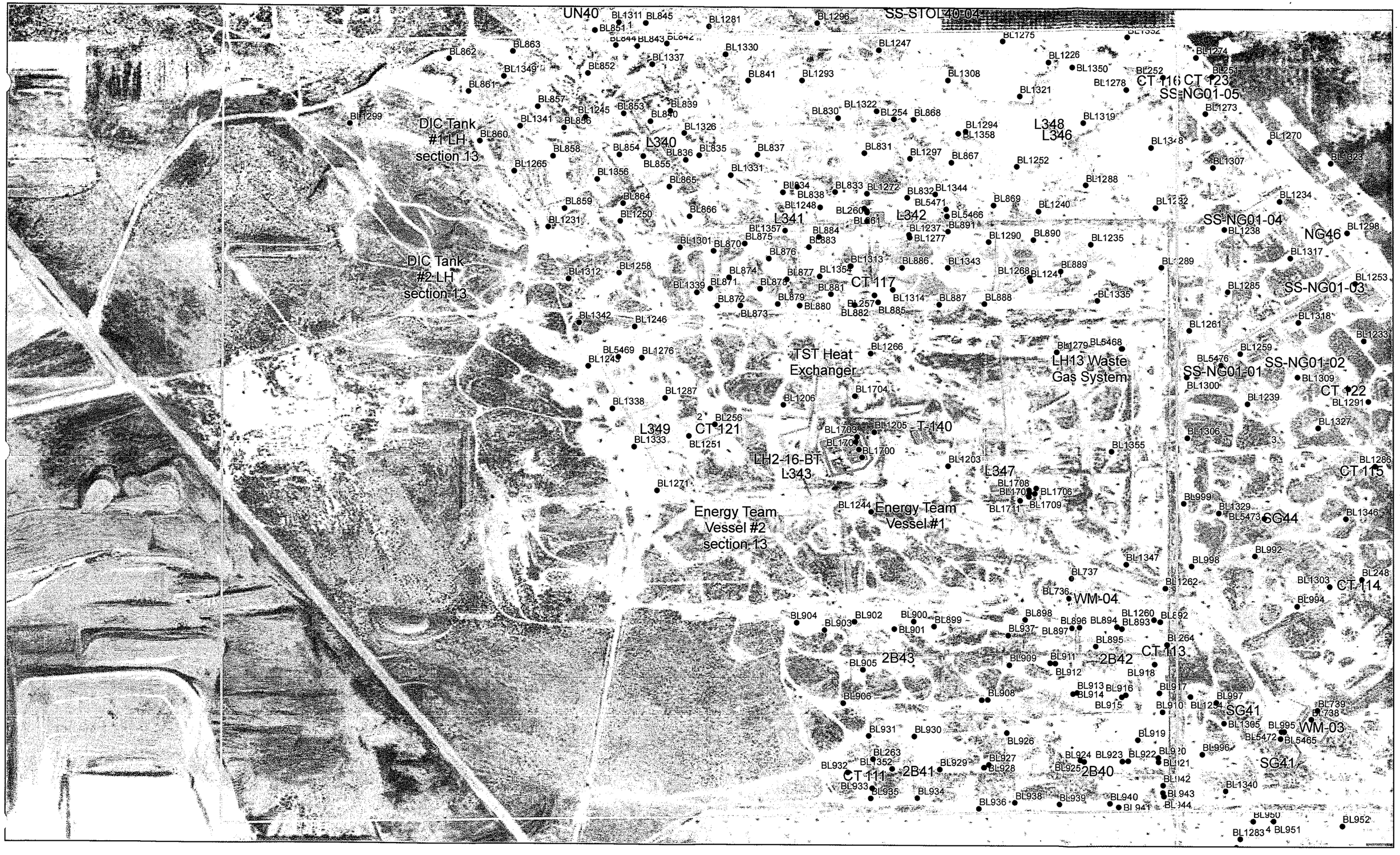
Aera Energy LLC - Lost Hills Oil Field

Potential Discharge Locations

Short Identifier	Map Page Number	Field	Lease	Description/Name	Location	RWQCB Name	Sec.	T	R	BM	Latitude	Longitude	APN	Potential Fluid	L	W	D	Construction	Status	Number of Discharge Points	Additional Comments	Intended Use	Volume Discharged [bbl/yr]	Category
BL5469	2	Lost Hills	Lost Hills Martin-Dudley 02	Steam Splitter LMDO2	Lost Hills	N/A	13	26S	20E	MD	35.66747	-119.77139	057-220-54	Steam					Active	12		12 blow down points used for energy control	< 1	Blowdown
BL5470	1	Lost Hills	Lost Hills TOL40	Steam Splitter LHTOL-40	Lost Hills	N/A	13	26S	20E	MD	35.67547	-119.76995	057-202-58	Steam					Active	12		12 blow down points used for energy control	< 1	Blowdown
BL5471	2	Lost Hills	Lost Hills L3E01	Steam Splitter L3E01	Lost Hills	N/A	13	26S	20E	MD	35.67024	-119.76527	057-220-62	Steam					Active	12		12 blow down points used for energy control	< 1	Blowdown
BL5472	3	Lost Hills	South Government 1 (south)	Steam Splitter SGSS01	Lost Hills	N/A	18	26S	21E	MD	35.66044	-119.75902	058-110-50	Steam					Active	12		12 blow down points used for energy control	< 1	Blowdown
BL5473	3	Lost Hills	South Government 2 (North)	Steam Splitter SGSS02	Lost Hills	N/A	18	26S	21E	MD	35.66453	-119.75932	058-110-50	Steam					Active	12		12 blow down points used for energy control	< 1	Blowdown
BL5474	3	Lost Hills	South Government 3 (East)	Steam Splitter SGSS03	Lost Hills	N/A	18	26S	21E	MD	35.66071	-119.75448	058-110-50	Steam					Active	12		12 blow down points used for energy control	< 1	Blowdown
BL5475	4	Lost Hills	Lost Hills Manual Injectors	Steam Splitter LHMAN	Lost Hills	N/A	18	26S	21E	MD	35.65912	-119.75392	058-110-13	Steam					Active	12		12 blow down points used for energy control	< 1	Blowdown
BL5476	3	Lost Hills	North Government 1 Sec.18	Steam Splitter NGSS01	Lost Hills	N/A	18	26S	21E	MD	35.66737	-119.76014	058-110-01	Steam					Active	12		12 blow down points used for energy control	< 1	Blowdown
BL5477	3	Lost Hills	Lost Hills NGSS02	Steam Splitter NGSS02	Lost Hills	N/A	18	26S	21E	MD	35.66522	-119.75387	058-110-50	Steam					Active	12		12 blow down points used for energy control	< 1	Blowdown
BL6801	6	Lost Hills	lost hills 1	8274A-4	LH01	N/A	4	27S	21E	MD	35.60965	-119.72424	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector
BL6802	6	Lost Hills	lost hills 1	8371B-4	LH01	N/A	4	27S	21E	MD	35.60745	-119.72207	069-111-12	Produced Water					Active	4		Well - Water Injection	< 1 barrel	Water Injector

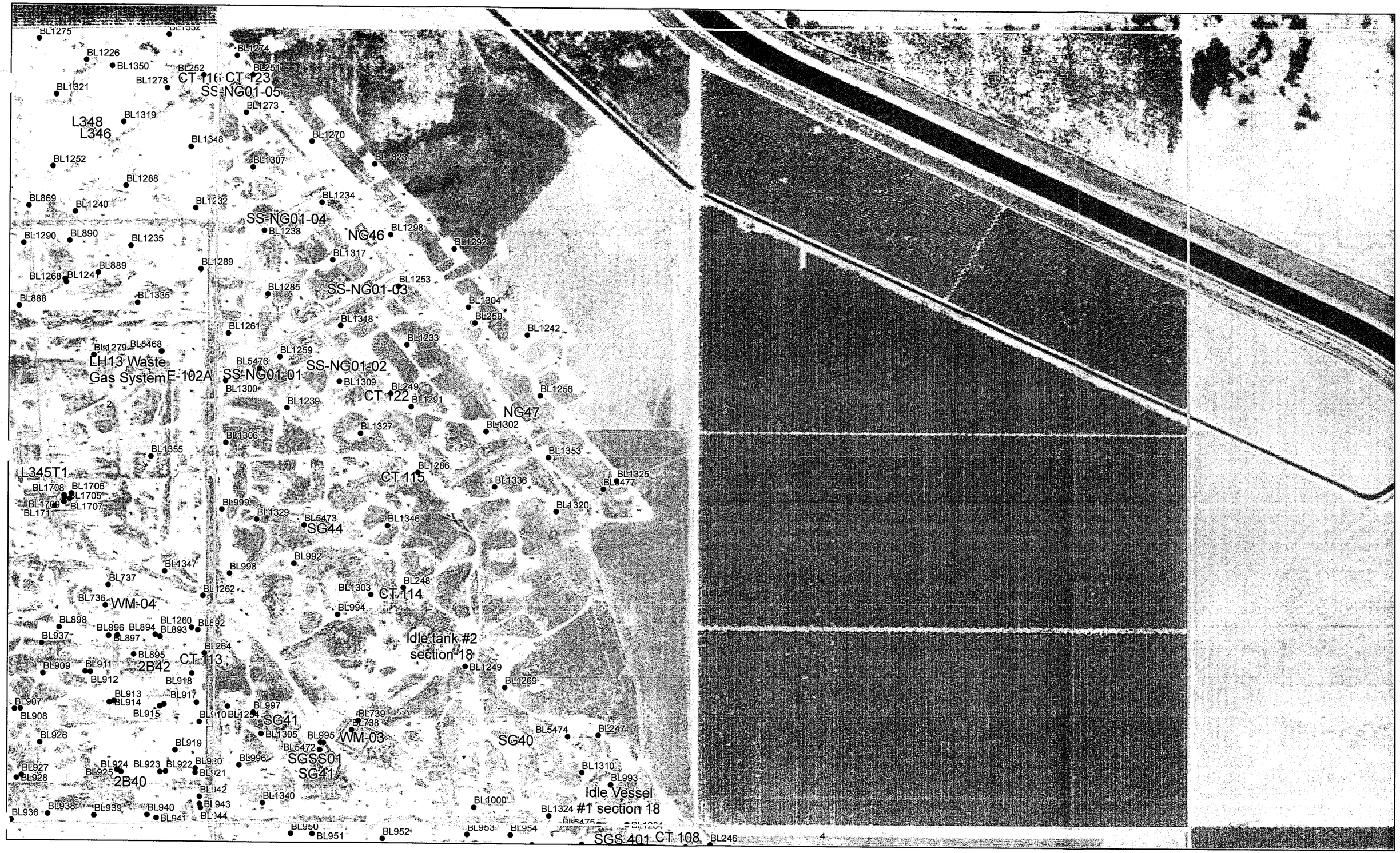


CAERA Lost Hills Potential Discharge Location Points 12, T26S, R20E

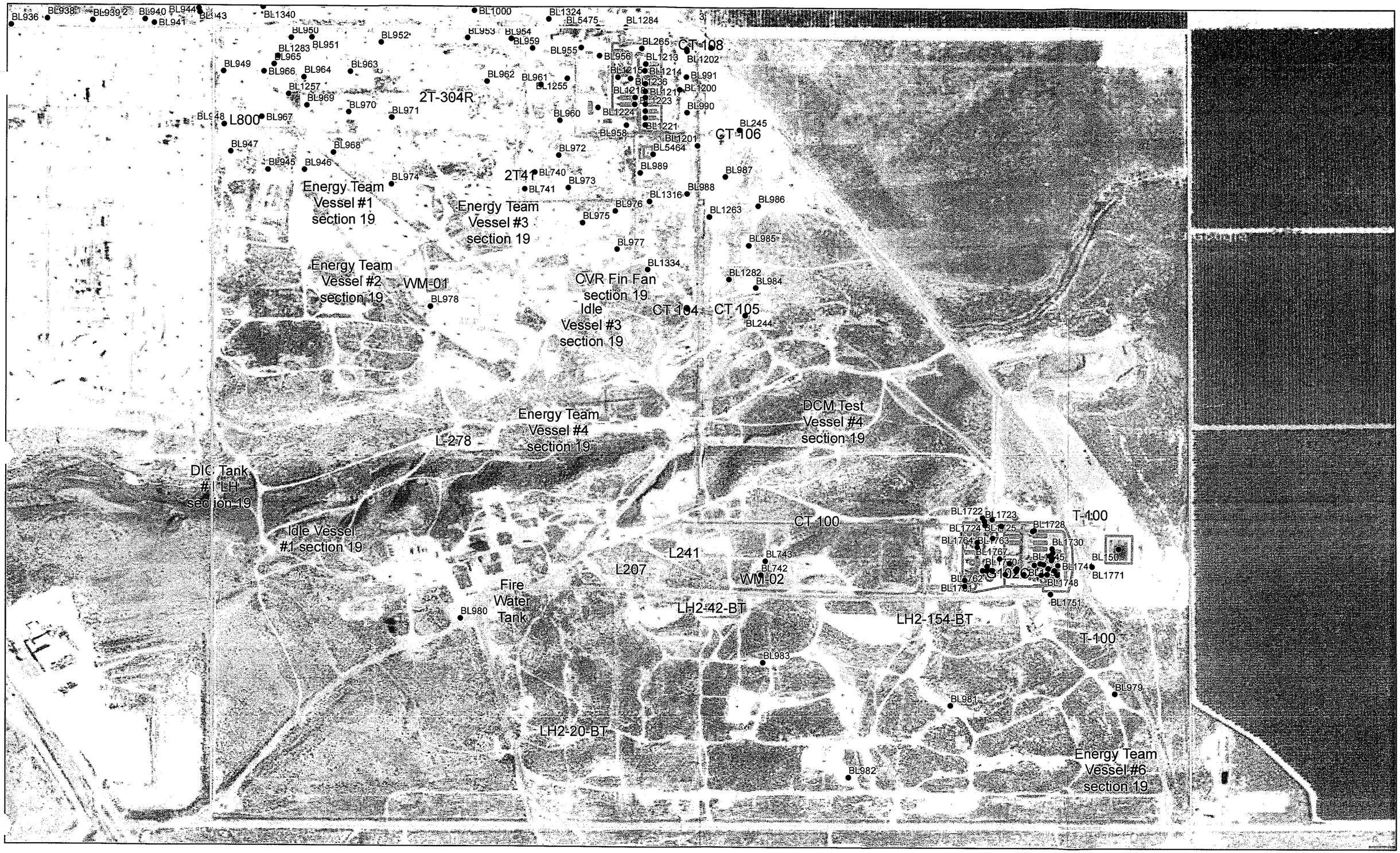


AERA Lost Hills Potential Discharge Location Points 13, T26S, R20E

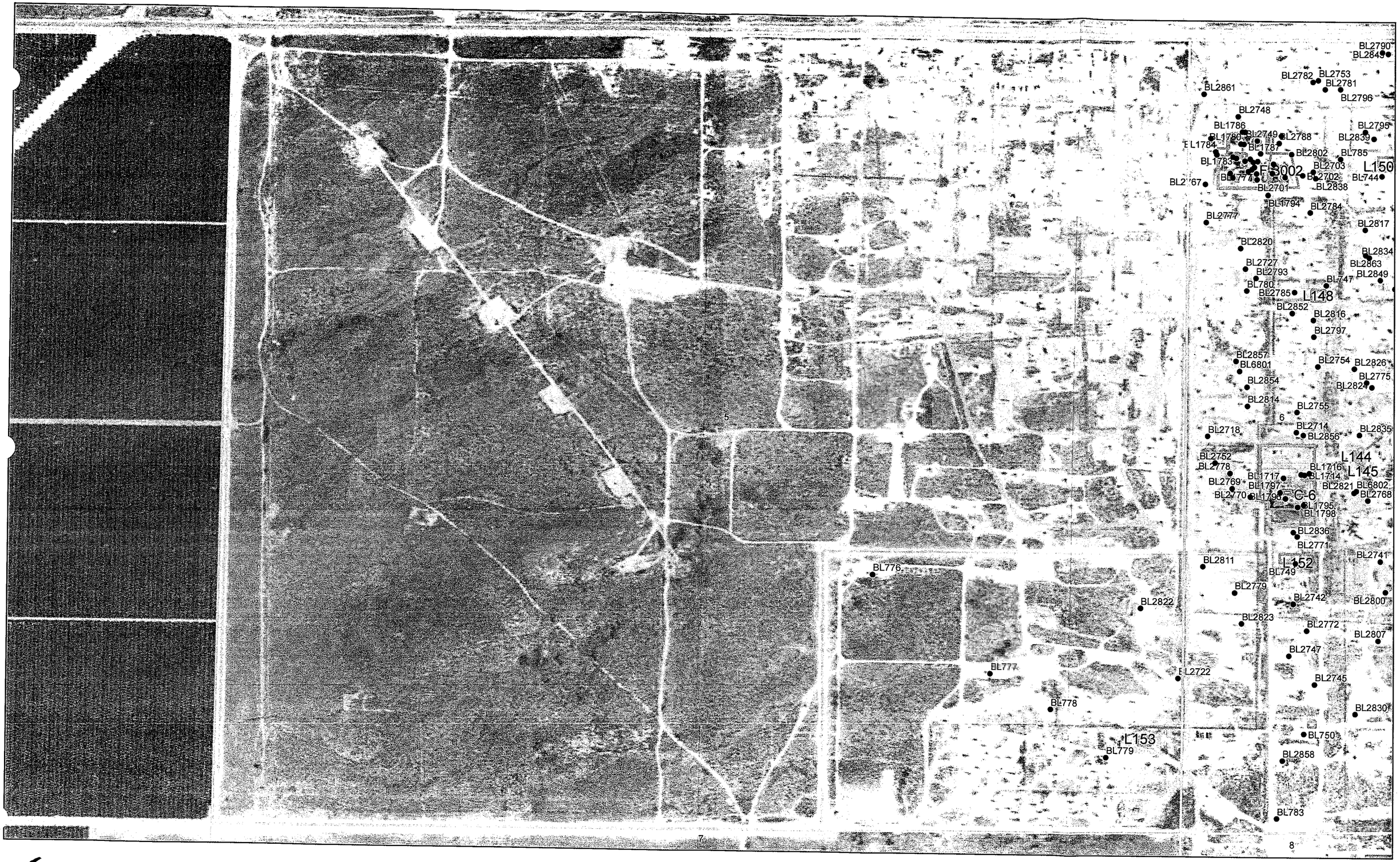
MAP PAGE 2



AERA Lost Hills Potential Discharge Location Points 18, T26S, R21E



AERA Lost Hills Potential Discharge Location Points 19, T26S, R21E

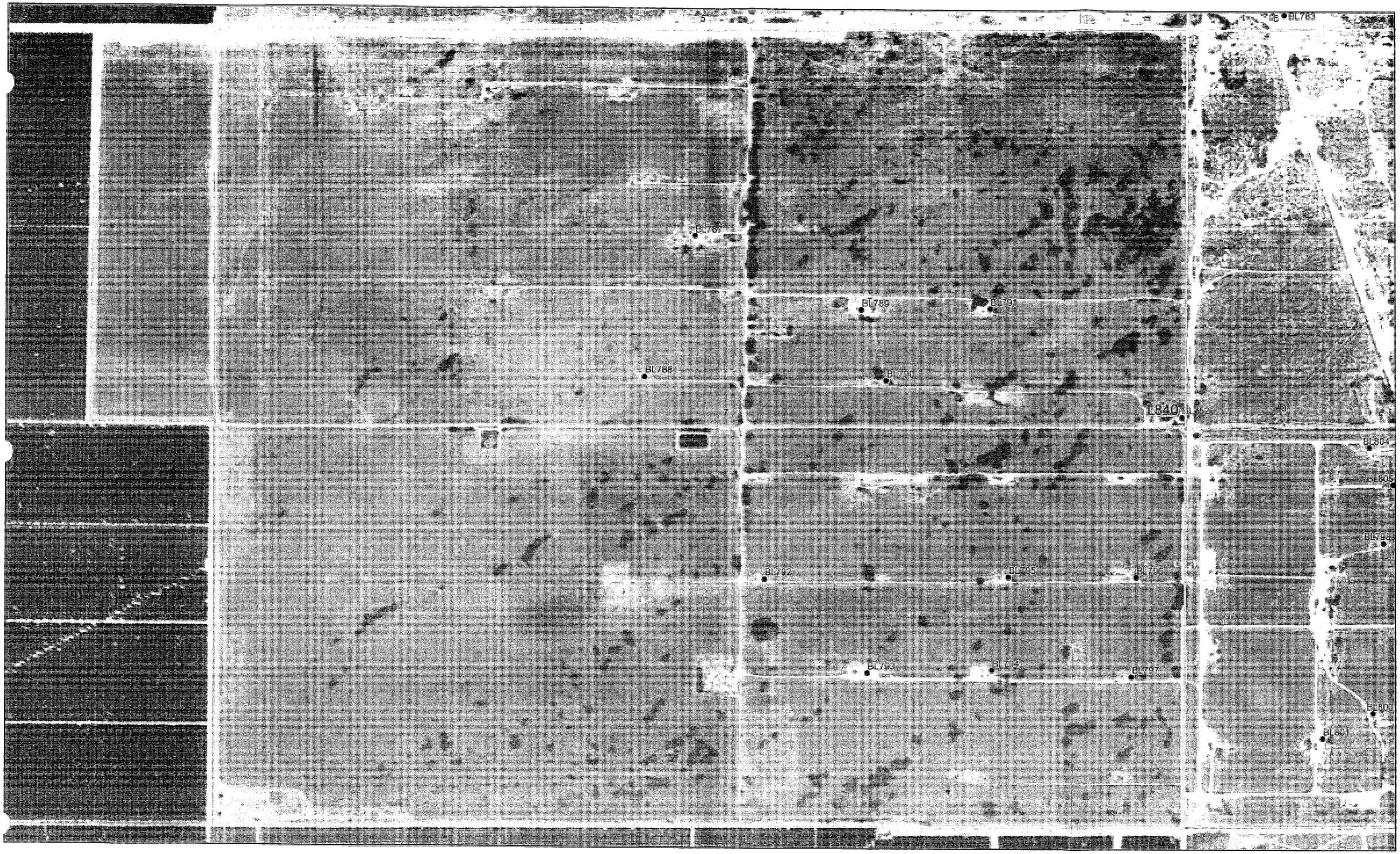


AERA Lost Hills Potential Discharge Location Points 5, T27S, R21E

MAP PAGE 5

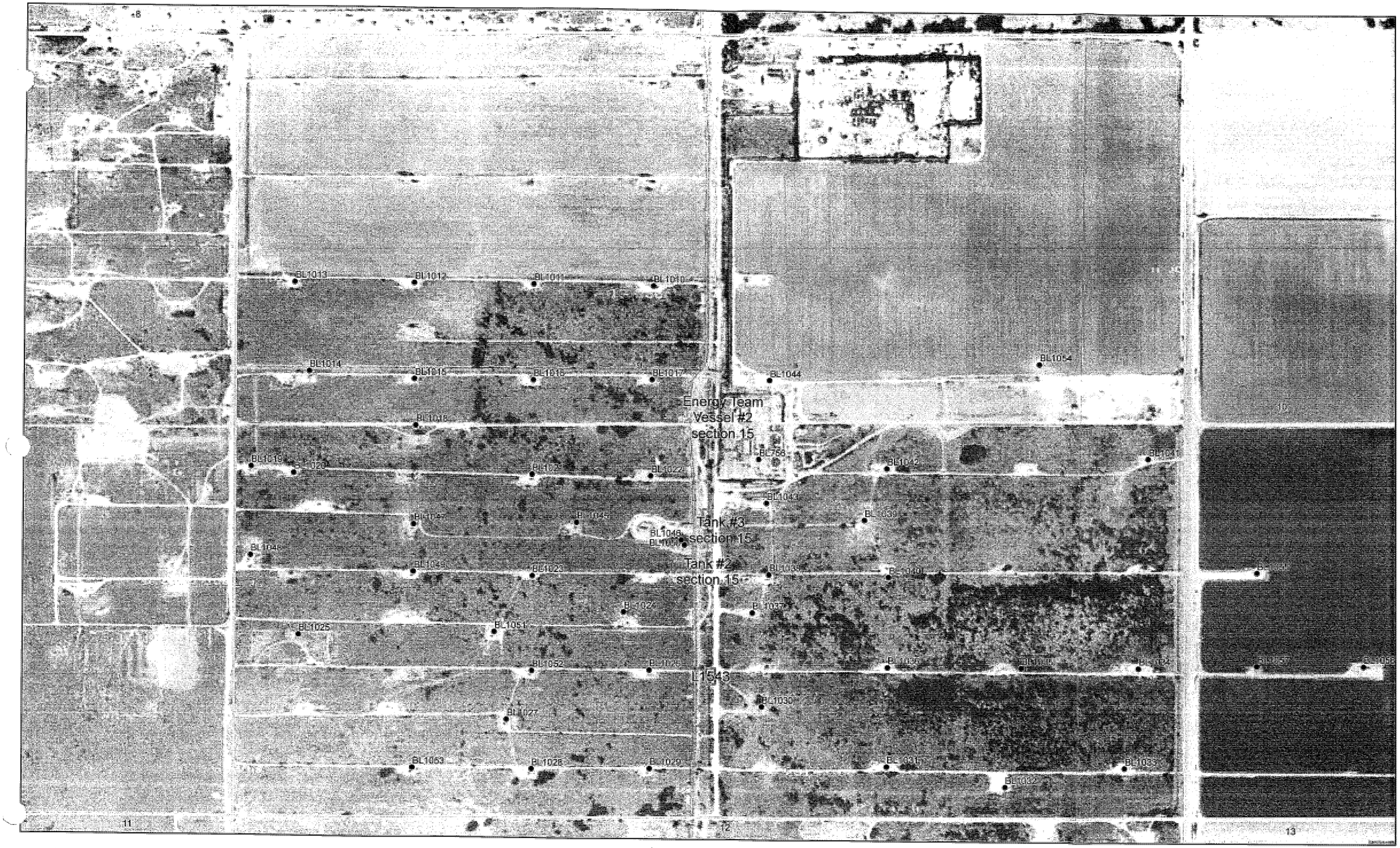
AERA Lost Hills Potential Discharge Location Points 4, T27S, R21E

MAP PAGE 6

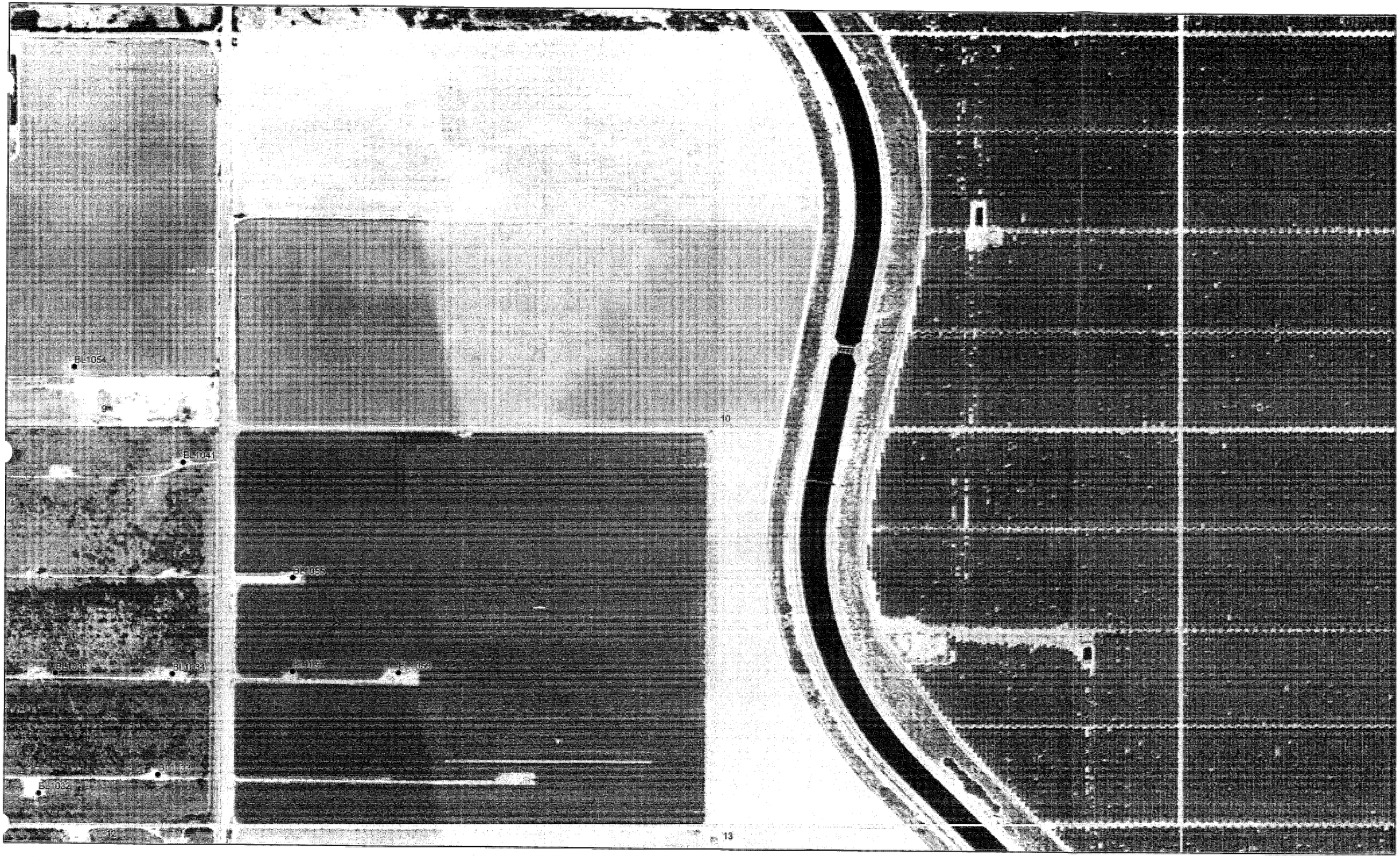


WAERA Lost Hills Potential Discharge Location Points 8, T27S, R21E

AERA. Lost Hills Potential Discharge Location Points 9, T27S, R21E

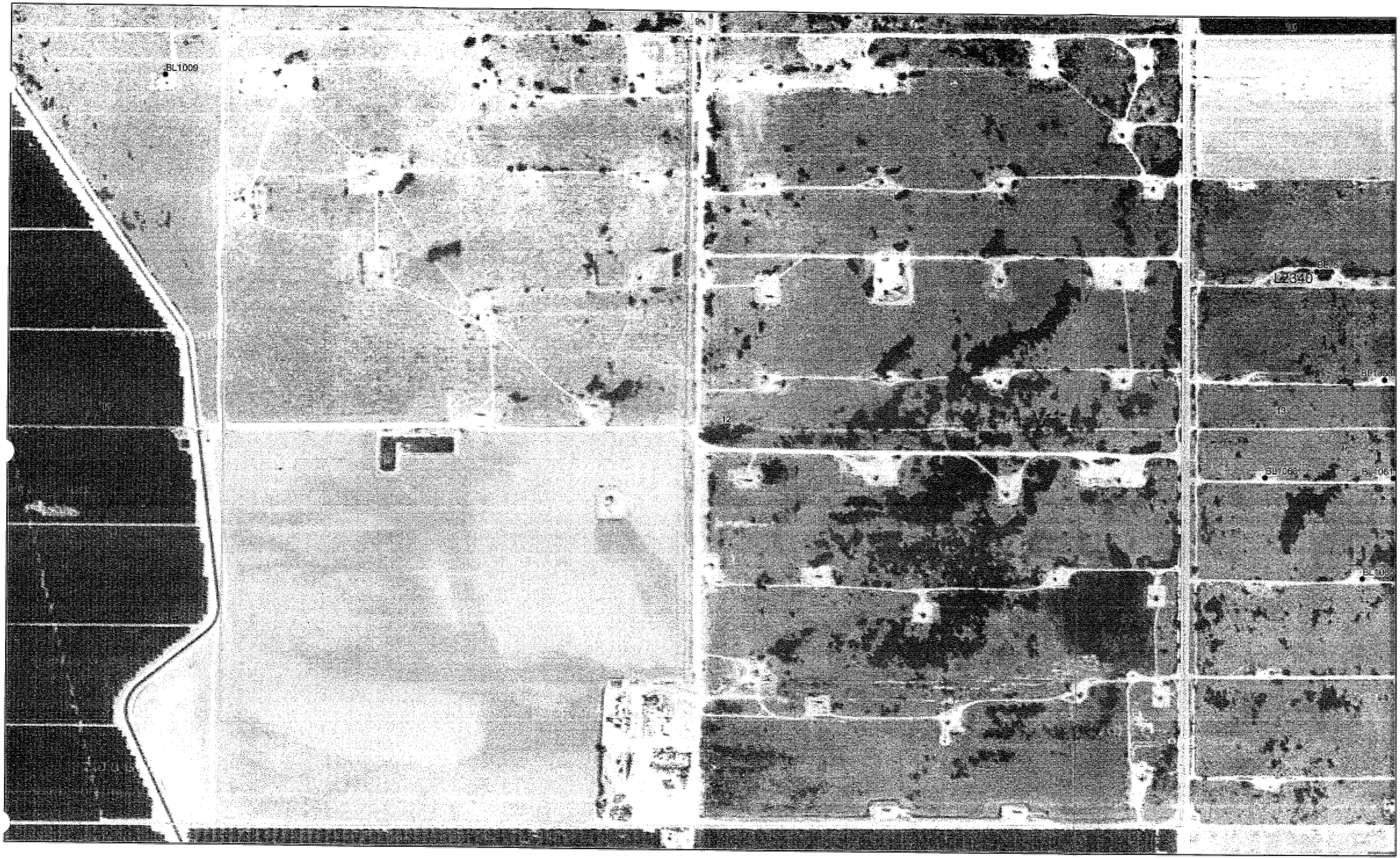


CAERA. Lost Hills Potential Discharge Location Points 15, T27S, R21E

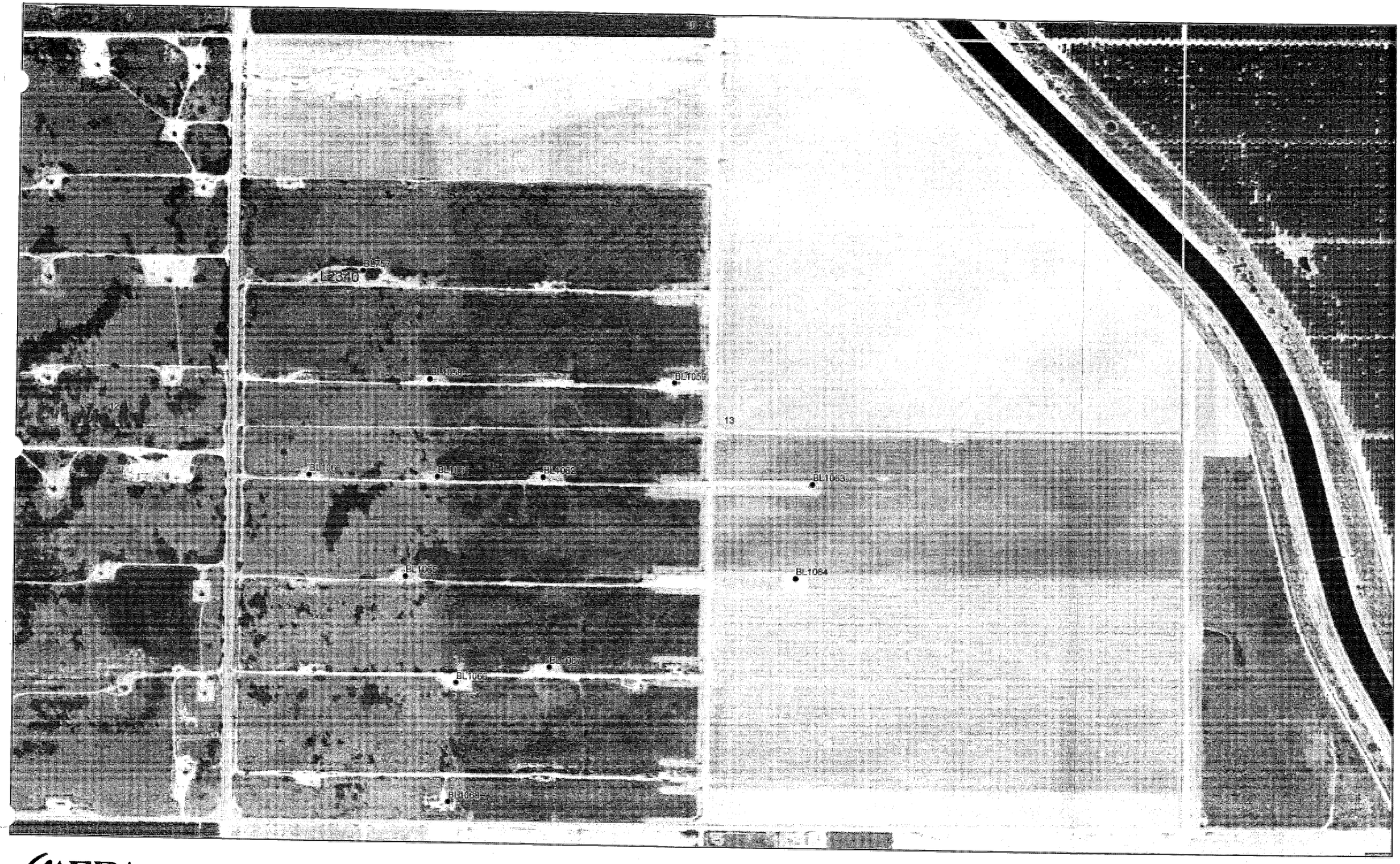


AERA. Lost Hills Potential Discharge Location Points 14, T27S, R21E

AERA Lost Hills Potential Discharge Location Points 21, T27S, R21E



AERA Lost Hills Potential Discharge Location Points 22, T27S, R21E



AERA Lost Hills Potential Discharge Location Points 23, T27S, R21E

amec foster wheeler

APPENDIX C

Analytical Reports and Chain-of-Custody Documentation

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 06/11/2015

Rod Bowyer

Aera Energy
10000 Ming Ave
Bakersfield, CA 93311

Client Project:	DOW
BCL Project:	Oilfield Produced Water Pond Testing
BCL Work Order:	1512692
Invoice ID:	B205457

Enclosed are the results of analyses for samples received by the laboratory on 5/26/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerrie S. Vaughan

Contact Person: Kerrie Vaughan
Client Services

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

BC Laboratories, Inc.

Chain of Custody Form

RUSH!

Page 1 of 1

Report To:
Client: Aera
Attn: Rod Bowyer
Street Address:
City, State, Zip:
Phone: Fax:
Email Address:
Work Order #: 15-12692

Project #:
Project Name:
Sampler(s): J. Enriquez

Analysis Requested

Please refer to the back of this page for completion instructions and method legend.

Comments:

Sample #	Description	Date Sampled	Time Sampled	See Attached	Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Turnaround # of work days*	Notes
-1	BL 1786 DOW LH 1	5/26/15	1338	X					X		5	2
-2	BL 1776 DOW LH 1	↓	1415	X					X		5	3
-3	BL 1794 DOW LH 1	↓	1509	X					X		5	4

Are there any tests with holding times less than or equal to 48 hours? ☐ Yes ☐ No

* Standard Turnaround = 10 work days

CN SHORT HOLDING TIME
Cr^{+6} NO_2 NO_3 OP SS
DO Cl_2 BOD MBAS COT

CHK BY DISTRIBUTION
SUB-OUT ☐

Billing ☐ Same as above
Client:
Address:
City: State Zip
Attn:
PO#:

EDF Required? Geotracker ☐ Yes ☐ No
Send Copy to State of CA? (EDT) ☐ Yes ☐ No

Global ID (Needed for EDF)
System # (Needed for EDT) 1634

Relinquished By	Date	Time	Received By	Date	Time
1. Enriquez	5/26/15	1634	1. MMB	5/26	1640
2.			2.		
3.			3.		

BC Laboratories, Inc. – 4100 Atlas Ct. – Bakersfield, CA 93308 – 661.327.4911 – Fax: 661.327.1918 – www.bclabs.com

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Chain of Custody and Cooler Receipt Form for 1512692 Page 3 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 15-12692

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: DE Thermometer ID: 208

Temperature: (A) 4.4 °C / (C) 4.5 °C

Date/Time 5/26/15 ~~1634~~ 1640

Analyst Init MNB ~~1640~~ MNB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		C	C							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS		DEF	DEF							
PT INORGANIC CHEMICAL METALS		G	G							
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL		AB	AB							
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M		~~G~~ H	~~G~~ H							
QT AMBER 8270		F	F							
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____
Sample Numbering Completed By: KIB Date/Time: 5/26/15 1701 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC)
A = Actual / C = Corrected

›era Energy 10000 Ming Ave Bakersfield, CA 93311	**Reported:** 06/11/2015 10:21 Project: Oilfield Produced Water Pond Testing Project Number: DOW Project Manager: Rod Bowyer

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1512692-01	**COC Number:**	---	**Receive Date:**	05/26/2015 16:34
	Project Number:	---	**Sampling Date:**	05/26/2015 13:38
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BL1786 DOW LH1	**Lab Matrix:**	Water
	Sampled By:	Juan Enriquez	**Sample Type:**	Wastewater
1512692-02	**COC Number:**	---	**Receive Date:**	05/26/2015 16:34
	Project Number:	---	**Sampling Date:**	05/26/2015 14:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BL1776 DOW LH1	**Lab Matrix:**	Water
	Sampled By:	Juan Enriquez	**Sample Type:**	Wastewater
1512692-03	**COC Number:**	---	**Receive Date:**	05/26/2015 16:34
	Project Number:	---	**Sampling Date:**	05/26/2015 15:09
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BL1794 DOW LH1	**Lab Matrix:**	Water
	Sampled By:	Juan Enriquez	**Sample Type:**	Wastewater

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ɜra Energy
10000 Ming Ave
Bakersfield, CA 93311

Reported: 06/11/2015 10:21
Project: Oilfield Produced Water Pond Testing
Project Number: DOW
Project Manager: Rod Bowyer

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID: 1512692-01 | **Client Sample Name:** BL1786 DOW LH1, 5/26/2015 1:38:00PM, Juan Enriquez

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	**0.43**	**ug/L**	**0.50**	**0.28**	**EPA-8270C-SIM**	ND	J	1
Acenaphthylene	ND	ug/L	0.50	0.24	EPA-8270C-SIM	ND		1
Anthracene	ND	ug/L	0.50	0.085	EPA-8270C-SIM	ND		1
Benzo[a]anthracene	**0.34**	**ug/L**	**0.50**	**0.13**	**EPA-8270C-SIM**	ND	J	1
Benzo[b]fluoranthene	ND	ug/L	0.50	0.20	EPA-8270C-SIM	ND		1
Benzo[k]fluoranthene	ND	ug/L	0.50	0.26	EPA-8270C-SIM	ND		1
Benzo[a]pyrene	ND	ug/L	0.50	0.13	EPA-8270C-SIM	ND		1
Benzo[g,h,i]perylene	ND	ug/L	0.50	0.22	EPA-8270C-SIM	ND		1
Chrysene	**0.34**	**ug/L**	**0.50**	**0.11**	**EPA-8270C-SIM**	ND	J	1
Dibenzo[a,h]anthracene	ND	ug/L	0.50	0.22	EPA-8270C-SIM	ND		1
Fluoranthene	ND	ug/L	0.50	0.060	EPA-8270C-SIM	ND		1
Fluorene	**2.2**	**ug/L**	**0.50**	**0.15**	**EPA-8270C-SIM**	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.50	0.22	EPA-8270C-SIM	ND		1
Naphthalene	**1.3**	**ug/L**	**0.50**	**0.38**	**EPA-8270C-SIM**	ND		1
Phenanthrene	**3.1**	**ug/L**	**0.50**	**0.11**	**EPA-8270C-SIM**	ND		1
Pyrene	ND	ug/L	0.50	0.11	EPA-8270C-SIM	ND		1
Nitrobenzene-d5 (Surrogate)	110	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	73.9	%	50 - 120 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	87.2	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C-SIM	05/27/15	05/28/15 21:09	MK1	MS-B4	5	BYE2442

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Reported: 06/11/2015 10:21
Project: Oilfield Produced Water Pond Testing
Project Number: DOW
Project Manager: Rod Bowyer

Water Analysis (General Chemistry)

BCL Sample ID: 1512692-01 | **Client Sample Name:** BL1786 DOW LH1, 5/26/2015 1:38:00PM, Juan Enriquez

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Calcium	**140**	**mg/L**	**0.40**	**0.060**	**EPA-6010B**	0.11	**A07**	1
Total Magnesium	**36**	**mg/L**	**0.20**	**0.076**	**EPA-6010B**	0.14	**A07**	1
Total Sodium	**2600**	**mg/L**	**2.0**	**0.20**	**EPA-6010B**	ND	**A07**	1
Total Potassium	**85**	**mg/L**	**4.0**	**0.52**	**EPA-6010B**	ND	**A07**	1
Bicarbonate Alkalinity as CaCO3	**810**	**mg/L**	**8.2**	**8.2**	**EPA-310.1**	ND		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	EPA-310.1	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	EPA-310.1	ND		2
Total Alkalinity as CaCO3	**810**	**mg/L**	**8.2**	**8.2**	**EPA-310.1**	ND		2
Bromide	**21**	**mg/L**	**5.0**	**1.8**	**EPA-300.0**	ND	**A07**	3
Chloride	**3900**	**mg/L**	**25**	**3.0**	**EPA-300.0**	ND	**A07**	3
Nitrate as NO3	ND	mg/L	22	3.9	EPA-300.0	ND	A07	3
Sulfate	**11**	**mg/L**	**50**	**5.0**	**EPA-300.0**	ND	**J,A07**	3
Total Dissolved Solids @ 180 C	**8400**	**mg/L**	**500**	**500**	**EPA-160.1**	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	05/29/15	06/02/15 07:54	ARD	PE-OP3	4	BYE2558
2	EPA-310.1	05/27/15	05/27/15 20:05	RML	MET-1	2	BYE2218
3	EPA-300.0	05/26/15	05/27/15 11:52	TMS	IC5	50	BYE2224
4	EPA-160.1	05/28/15	05/28/15 11:00	CAD	MANUAL	50	BYE2350

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Reported: 06/11/2015 10:21
Project: Oilfield Produced Water Pond Testing
Project Number: DOW
Project Manager: Rod Bowyer

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1512692-02 | **Client Sample Name:** BL1776 DOW LH1, 5/26/2015 2:15:00PM, Juan Enriquez

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND	Z1	1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260B	ND	Z1	1
Toluene	ND	ug/L	0.50	0.093	EPA-8260B	ND	Z1	1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260B	ND	Z1	1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260B	ND	Z1	1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260B	ND	Z1	1
1,2-Dichloroethane-d4 (Surrogate)	121	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	96.6	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	108	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	05/28/15	05/29/15 23:36	JPT	MS-V13	1	BYE2464

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›era Energy	**Reported:** 06/11/2015 10:21
ı0000 Ming Ave	Project: Oilfield Produced Water Pond Testing
Bakersfield, CA 93311	Project Number: DOW
	Project Manager: Rod Bowyer

Total Petroleum Hydrocarbons

BCL Sample ID: 1512692-02 | **Client Sample Name:** BL1776 DOW LH1, 5/26/2015 2:15:00PM, Juan Enriquez

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Crude Oil	**14000**	**ug/L**	**5000**	**1400**	**EPA-8015B/FFP**	ND	**A01**	1
Tetracosane (Surrogate)	71.6	%	37 - 134 (LCL - UCL)		EPA-8015B/FFP		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	05/27/15	05/28/15 12:34	MWB	GC-13	10	BYE2353

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Reported: 06/11/2015 10:21
Project: Oilfield Produced Water Pond Testing
Project Number: DOW
Project Manager: Rod Bowyer

Metals Analysis

BCL Sample ID: 1512692-02 | **Client Sample Name:** BL1776 DOW LH1, 5/26/2015 2:15:00PM, Juan Enriquez

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	10	3.5	EPA-7196		A07	1
Total Antimony	ND	ug/L	400	34	EPA-6010B	500000	A07	2
Total Arsenic	ND	ug/L	200	31	EPA-6010B	500000	A07	2
Total Barium	**730**	**ug/L**	**40**	**14**	**EPA-6010B**	10000000	**A07**	2
Total Beryllium	ND	ug/L	40	2.0	EPA-6010B	75000	A07	2
Total Boron	**13**	**mg/L**	**0.40**	**0.052**	**EPA-6010B**		**A07**	2
Total Cadmium	ND	ug/L	40	4.4	EPA-6010B	100000	A07	2
Total Chromium	ND	ug/L	40	4.4	EPA-6010B	2500000	A07	2
Total Cobalt	ND	ug/L	200	5.2	EPA-6010B	8000000	A07	2
Total Copper	**5.9**	**ug/L**	**40**	**4.4**	**EPA-6010B**	2500000	**J,A07**	2
Total Iron	**1.4**	**mg/L**	**0.20**	**0.12**	**EPA-6010B**		**A07**	2
Total Lead	ND	ug/L	200	16	EPA-6010B	1000000	A07	2
Total Lithium	**1.5**	**mg/L**	**0.080**	**0.025**	**EPA-6010B**		**A07**	2
Total Manganese	**0.26**	**mg/L**	**0.040**	**0.016**	**EPA-6010B**		**A07**	2
Total Mercury	ND	ug/L	0.20	0.033	EPA-7470A	20000		3
Total Molybdenum	ND	ug/L	200	4.8	EPA-6010B	3500000	A07	2
Total Nickel	ND	ug/L	40	8.0	EPA-6010B	2000000	A07	2
Total Selenium	**68**	**ug/L**	**400**	**60**	**EPA-6010B**	100000	**J,A07**	2
Total Silver	ND	ug/L	40	7.6	EPA-6010B	500000	A07	2
Total Strontium	**6.2**	**mg/L**	**0.040**	**0.0040**	**EPA-6010B**		**A07**	2
Total Thallium	ND	ug/L	400	96	EPA-6010B	700000	A07	2
Total Vanadium	ND	ug/L	40	8.8	EPA-6010B	2400000	A07	2
Total Zinc	**16**	**ug/L**	**200**	**9.2**	**EPA-6010B**	5000000	**J,A07**	2
Total Recoverable Uranium	**1.3**	**pCi/L**	**6.7**	**0.67**	**EPA-200.8**		**J,A07**	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/27/15	05/27/15 08:14	TDC	KONE-1	5	BYE2265
2	EPA-6010B	05/29/15	06/02/15 07:56	ARD	PE-OP3	4	BYE2558
3	EPA-7470A	05/27/15	05/28/15 11:10	MEV	CETAC1	1	BYE2304
4	EPA-200.8	06/02/15	06/02/15 16:22	GPD	PE-EL2	10	BYF0170

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Reported: 06/11/2015 10:21
Project: Oilfield Produced Water Pond Testing
Project Number: DOW
Project Manager: Rod Bowyer

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID: 1512692-03 | **Client Sample Name:** BL1794 DOW LH1, 5/26/2015 3:09:00PM, Juan Enriquez

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	**7.8**	**ug/L**	**0.50**	**0.27**	**EPA-8270C-SIM**	ND		1
Acenaphthylene	**4.0**	**ug/L**	**0.50**	**0.23**	**EPA-8270C-SIM**	ND		1
Anthracene	ND	ug/L	0.50	0.084	EPA-8270C-SIM	ND		1
Benzo[a]anthracene	ND	ug/L	0.50	0.13	EPA-8270C-SIM	ND		1
Benzo[b]fluoranthene	ND	ug/L	0.50	0.20	EPA-8270C-SIM	ND		1
Benzo[k]fluoranthene	ND	ug/L	0.50	0.25	EPA-8270C-SIM	ND		1
Benzo[a]pyrene	ND	ug/L	0.50	0.13	EPA-8270C-SIM	ND		1
Benzo[g,h,i]perylene	ND	ug/L	0.50	0.21	EPA-8270C-SIM	ND		1
Chrysene	ND	ug/L	0.50	0.11	EPA-8270C-SIM	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	0.50	0.22	EPA-8270C-SIM	ND		1
Fluoranthene	ND	ug/L	0.50	0.059	EPA-8270C-SIM	ND		1
Fluorene	**1.0**	**ug/L**	**0.50**	**0.15**	**EPA-8270C-SIM**	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.50	0.22	EPA-8270C-SIM	ND		1
ɜphthalene	**2.4**	**ug/L**	**0.50**	**0.38**	**EPA-8270C-SIM**	ND		1
Phenanthrene	**0.50**	**ug/L**	**0.50**	**0.11**	**EPA-8270C-SIM**	ND		1
Pyrene	ND	ug/L	0.50	0.11	EPA-8270C-SIM	ND		1
Nitrobenzene-d5 (Surrogate)	63.0	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	49.1	%	50 - 120 (LCL - UCL)		EPA-8270C-SIM		S09	1
p-Terphenyl-d14 (Surrogate)	101	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C-SIM	05/27/15	05/28/15 22:02	MK1	MS-B4	4.950	BYE2442

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Reported: 06/11/2015 10:21
Project: Oilfield Produced Water Pond Testing
Project Number: DOW
Project Manager: Rod Bowyer

Water Analysis (General Chemistry)

BCL Sample ID: 1512692-03 | **Client Sample Name:** BL1794 DOW LH1, 5/26/2015 3:09:00PM, Juan Enriquez

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Calcium	**47**	**mg/L**	**2.0**	**0.30**	**EPA-6010B**	0.54	**A07**	1
Total Magnesium	**71**	**mg/L**	**1.0**	**0.38**	**EPA-6010B**	0.72	**A07**	1
Total Sodium	**6700**	**mg/L**	**10**	**1.0**	**EPA-6010B**	ND	**A07**	1
Total Potassium	**240**	**mg/L**	**20**	**2.6**	**EPA-6010B**	ND	**A07**	1
Bicarbonate Alkalinity as CaCO3	**2900**	**mg/L**	**8.2**	**8.2**	**EPA-310.1**	ND		2
Carbonate Alkalinity as CaCO3	**420**	**mg/L**	**8.2**	**8.2**	**EPA-310.1**	ND		2
Hydroxide Alkalinity as CaCO3	ND	mg/L	8.2	8.2	EPA-310.1	ND		2
Total Alkalinity as CaCO3	**3300**	**mg/L**	**8.2**	**8.2**	**EPA-310.1**	ND		2
Bromide	**66**	**mg/L**	**5.0**	**1.8**	**EPA-300.0**	ND	**A07**	3
Chloride	**9800**	**mg/L**	**25**	**3.0**	**EPA-300.0**	ND	**A07**	3
Nitrate as NO3	ND	mg/L	22	3.9	EPA-300.0	ND	A07	3
Sulfate	**62**	**mg/L**	**50**	**5.0**	**EPA-300.0**	ND	**A07**	3
Total Dissolved Solids @ 180 C	**20000**	**mg/L**	**1000**	**1000**	**EPA-160.1**	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	05/29/15	06/01/15 18:51	ARD	PE-OP3	20	BYE2558
2	EPA-310.1	05/27/15	05/27/15 20:55	RML	MET-1	2	BYE2219
3	EPA-300.0	05/26/15	05/27/15 03:47	OLH	IC5	50	BYE2224
4	EPA-160.1	05/28/15	05/28/15 11:00	CAD	MANUAL	100	BYE2350

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Reported: 06/11/2015 10:21
Project: Oilfield Produced Water Pond Testing
Project Number: DOW
Project Manager: Rod Bowyer

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYE2194						
Benzene	BYE2194-BLK1	ND	ug/L	0.50	0.083	
Ethylbenzene	BYE2194-BLK1	ND	ug/L	0.50	0.098	
Toluene	BYE2194-BLK1	ND	ug/L	0.50	0.093	
Total Xylenes	BYE2194-BLK1	ND	ug/L	1.0	0.36	
p- & m-Xylenes	BYE2194-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BYE2194-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BYE2194-BLK1**	**85.6**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BYE2194-BLK1**	**94.3**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BYE2194-BLK1**	**92.4**	%	**80 - 120 (LCL - UCL)**		
QC Batch ID: BYE2464						
Benzene	BYE2464-BLK1	ND	ug/L	0.50	0.083	
Ethylbenzene	BYE2464-BLK1	ND	ug/L	0.50	0.098	
Toluene	BYE2464-BLK1	ND	ug/L	0.50	0.093	
Total Xylenes	BYE2464-BLK1	ND	ug/L	1.0	0.36	
p- & m-Xylenes	BYE2464-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BYE2464-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BYE2464-BLK1**	**95.4**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BYE2464-BLK1**	**96.8**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BYE2464-BLK1**	**97.7**	%	**80 - 120 (LCL - UCL)**		

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Reported: 06/11/2015 10:21
Project: Oilfield Produced Water Pond Testing
Project Number: DOW
Project Manager: Rod Bowyer

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYE2194	Used client sample: N										
Benzene	MS	1511019-54	ND	23.380	25.000	ug/L		93.5		70 - 130	
	MSD	1511019-54	ND	23.190	25.000	ug/L	0.8	92.8	20	70 - 130	
Toluene	MS	1511019-54	ND	23.410	25.000	ug/L		93.6		70 - 130	
	MSD	1511019-54	ND	24.120	25.000	ug/L	3.0	96.5	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1511019-54	ND	8.8100	10.000	ug/L		88.1		75 - 125	
	MSD	1511019-54	ND	8.6700	10.000	ug/L	1.6	86.7		75 - 125	
Toluene-d8 (Surrogate)	MS	1511019-54	ND	9.6700	10.000	ug/L		96.7		80 - 120	
	MSD	1511019-54	ND	9.8000	10.000	ug/L	1.3	98.0		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1511019-54	ND	9.8400	10.000	ug/L		98.4		80 - 120	
	MSD	1511019-54	ND	9.9900	10.000	ug/L	1.5	99.9		80 - 120	
QC Batch ID: BYE2464	Used client sample: N										
Benzene	MS	1511019-62	ND	22.140	25.000	ug/L		88.6		70 - 130	
	MSD	1511019-62	ND	25.800	25.000	ug/L	15.3	103	20	70 - 130	
Toluene	MS	1511019-62	ND	23.270	25.000	ug/L		93.1		70 - 130	
	MSD	1511019-62	ND	25.200	25.000	ug/L	8.0	101	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1511019-62	ND	9.7000	10.000	ug/L		97.0		75 - 125	
	MSD	1511019-62	ND	11.090	10.000	ug/L	13.4	111		75 - 125	
Toluene-d8 (Surrogate)	MS	1511019-62	ND	10.140	10.000	ug/L		101		80 - 120	
	MSD	1511019-62	ND	10.350	10.000	ug/L	2.0	104		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1511019-62	ND	9.9800	10.000	ug/L		99.8		80 - 120	
	MSD	1511019-62	ND	10.010	10.000	ug/L	0.3	100		80 - 120	

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Reported: 06/11/2015 10:21
Project: Oilfield Produced Water Pond Testing
Project Number: DOW
Project Manager: Rod Bowyer

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYE2442										
Acenaphthene	BYE2442-BS1	LCS	0.88317	1.0000	ug/L	88.3		60 - 110		
Acenaphthylene	BYE2442-BS1	LCS	0.98214	1.0000	ug/L	98.2		60 - 120		
Anthracene	BYE2442-BS1	LCS	1.0562	1.0000	ug/L	106		60 - 130		
Benzo[a]anthracene	BYE2442-BS1	LCS	0.71276	1.0000	ug/L	71.3		60 - 130		
Benzo[b]fluoranthene	BYE2442-BS1	LCS	0.59310	1.0000	ug/L	59.3		50 - 130		
Benzo[k]fluoranthene	BYE2442-BS1	LCS	0.97553	1.0000	ug/L	97.6		60 - 120		
Benzo[a]pyrene	BYE2442-BS1	LCS	1.1276	1.0000	ug/L	113		60 - 120		
Benzo[g,h,i]perylene	BYE2442-BS1	LCS	1.1096	1.0000	ug/L	111		40 - 120		
Chrysene	BYE2442-BS1	LCS	0.95571	1.0000	ug/L	95.6		60 - 110		
Dibenzo[a,h]anthracene	BYE2442-BS1	LCS	0.84934	1.0000	ug/L	84.9		40 - 120		
Fluoranthene	BYE2442-BS1	LCS	0.66433	1.0000	ug/L	66.4		60 - 120		
ɔrene	BYE2442-BS1	LCS	1.0071	1.0000	ug/L	101		60 - 120		
Indeno[1,2,3-cd]pyrene	BYE2442-BS1	LCS	1.1538	1.0000	ug/L	115		40 - 130		
Naphthalene	BYE2442-BS1	LCS	0.83270	1.0000	ug/L	83.3		60 - 110		
Phenanthrene	BYE2442-BS1	LCS	0.68613	1.0000	ug/L	68.6		60 - 120		
Pyrene	BYE2442-BS1	LCS	1.9096	1.0000	ug/L	191		50 - 125		L01
Nitrobenzene-d5 (Surrogate)	BYE2442-BS1	LCS	3.2409	4.0000	ug/L	81.0		40 - 130		
2-Fluorobiphenyl (Surrogate)	BYE2442-BS1	LCS	3.5495	4.0000	ug/L	88.7		50 - 120		
p-Terphenyl-d14 (Surrogate)	BYE2442-BS1	LCS	5.7635	4.0000	ug/L	144		40 - 130		S09

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ra Energy
10000 Ming Ave
Bakersfield, CA 93311

Reported: 06/11/2015 10:21
Project: Oilfield Produced Water Pond Testing
Project Number: DOW
Project Manager: Rod Bowyer

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYE2442	Used client sample: N										
p-Terphenyl-d14 (Surrogate)	MS	1511019-58	ND	4.8523	4.0000	ug/L		121		40 - 130	
	MSD	1511019-58	ND	5.6422	4.0000	ug/L	15.1	141		40 - 130	S09

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›era Energy	**Reported:** 06/11/2015 10:21
ı0000 Ming Ave	Project: Oilfield Produced Water Pond Testing
Bakersfield, CA 93311	Project Number: DOW
	Project Manager: Rod Bowyer

Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYE2353										
TPH - Diesel (FFP)	BYE2353-BS1	LCS	2105.0	2500.0	ug/L	84.2		52 - 128		
Tetracosane (Surrogate)	BYE2353-BS1	LCS	88.435	100.00	ug/L	88.4		37 - 134		

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ɜra Energy
10000 Ming Ave
Bakersfield, CA 93311

Reported: 06/11/2015 10:21
Project: Oilfield Produced Water Pond Testing
Project Number: DOW
Project Manager: Rod Bowyer

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYE2218						
Bicarbonate Alkalinity as CaCO3	BYE2218-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BYE2218-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BYE2218-BLK1	ND	mg/L	4.1	4.1	
Total Alkalinity as CaCO3	BYE2218-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BYE2219						
Bicarbonate Alkalinity as CaCO3	BYE2219-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BYE2219-BLK1	ND	mg/L	4.1	4.1	
Hydroxide Alkalinity as CaCO3	BYE2219-BLK1	ND	mg/L	4.1	4.1	
Total Alkalinity as CaCO3	BYE2219-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BYE2224						
Bromide	BYE2224-BLK1	ND	mg/L	0.10	0.035	
ʼoride	BYE2224-BLK1	ND	mg/L	0.50	0.061	
Nitrate as NO3	BYE2224-BLK1	ND	mg/L	0.44	0.078	
Sulfate	BYE2224-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BYE2350						
Total Dissolved Solids @ 180 C	BYE2350-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BYE2558						
Total Calcium	**BYE2558-BLK1**	**0.026983**	**mg/L**	**0.10**	**0.015**	**J**
Total Magnesium	**BYE2558-BLK1**	**0.036182**	**mg/L**	**0.050**	**0.019**	**J**
Total Sodium	BYE2558-BLK1	ND	mg/L	0.50	0.051	
Total Potassium	BYE2558-BLK1	ND	mg/L	1.0	0.13	

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10000 Ming Ave
Bakersfield, CA 93311

Reported: 06/11/2015 10:21
Project: Oilfield Produced Water Pond Testing
Project Number: DOW
Project Manager: Rod Bowyer

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYE2218	Used client sample: N										
Bicarbonate Alkalinity as CaCO3	DUP	1512664-02	318.87	316.13		mg/L	0.9		10		
Carbonate Alkalinity as CaCO3	DUP	1512664-02	ND	ND		mg/L			10		
Hydroxide Alkalinity as CaCO3	DUP	1512664-02	ND	ND		mg/L			10		
Total Alkalinity as CaCO3	DUP	1512664-02	318.87	316.13		mg/L	0.9		10		
QC Batch ID: BYE2219	Used client sample: N										
Bicarbonate Alkalinity as CaCO3	DUP	1512717-01	118.05	118.21		mg/L	0.1		10		
Carbonate Alkalinity as CaCO3	DUP	1512717-01	ND	ND		mg/L			10		
Hydroxide Alkalinity as CaCO3	DUP	1512717-01	ND	ND		mg/L			10		
Total Alkalinity as CaCO3	DUP	1512717-01	118.05	118.21		mg/L	0.1		10		
QC Batch ID: BYE2224	Used client sample: Y - Description: BL1786 DOW LH1, 05/26/2015 13:38										
Bromide	DUP	1512692-01	20.800	21.050		mg/L	1.2		10		
	MS	1512692-01	20.800	134.19	101.01	mg/L		112		80 - 120	
	MSD	1512692-01	20.800	135.51	101.01	mg/L	1.0	114	10	80 - 120	
Chloride	DUP	1512692-01	3905.2	3912.4		mg/L	0.2		10		
	MS	1512692-01	3905.2	6503.1	2525.3	mg/L		103		80 - 120	
	MSD	1512692-01	3905.2	6530.3	2525.3	mg/L	0.4	104	10	80 - 120	
Nitrate as NO3	DUP	1512692-01	ND	ND		mg/L			10		
	MS	1512692-01	ND	1155.7	1117.9	mg/L		103		80 - 120	
	MSD	1512692-01	ND	1161.3	1117.9	mg/L	0.5	104	10	80 - 120	
Sulfate	DUP	1512692-01	11.000	10.700		mg/L	2.8		10		J
	MS	1512692-01	11.000	5004.3	5050.5	mg/L		98.9		80 - 120	
	MSD	1512692-01	11.000	5039.3	5050.5	mg/L	0.7	99.6	10	80 - 120	
QC Batch ID: BYE2350	Used client sample: N										
Total Dissolved Solids @ 180 C	DUP	1512609-01	1090.0	1070.0		mg/L	1.9		10		
QC Batch ID: BYE2558	Used client sample: N										
Total Calcium	DUP	512253-01RE'	27.445	27.664		mg/L	0.8		20		
	MS	512253-01RE'	27.445	38.097	10.000	mg/L		107		75 - 125	
	MSD	512253-01RE'	27.445	37.729	10.000	mg/L	1.0	103	20	75 - 125	
Total Magnesium	DUP	**1512253-01RE1**	**20.918**	**20.913**		**mg/L**	**0.0**		**20**		
	MS	**1512253-01RE1**	**20.918**	**32.972**	**10.000**	**mg/L**		**121**		**75 - 125**	
	MSD	**1512253-01RE1**	**20.918**	**33.763**	**10.000**	**mg/L**	**2.4**	**128**	**20**	**75 - 125**	**Q03**
Total Sodium	DUP	**1512253-01RE1**	**368.87**	**369.18**		**mg/L**	**0.1**		**20**		
	MS	**1512253-01RE1**	**368.87**	**401.61**	**10.000**	**mg/L**		**327**		**75 - 125**	**A03**
	MSD	**1512253-01RE1**	**368.87**	**400.34**	**10.000**	**mg/L**	**0.3**	**315**	**20**	**75 - 125**	**A03**

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ɜra Energy
10000 Ming Ave
Bakersfield, CA 93311

Reported: 06/11/2015 10:21
Project: Oilfield Produced Water Pond Testing
Project Number: DOW
Project Manager: Rod Bowyer

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYE2265						
Hexavalent Chromium	BYE2265-BLK1	ND	ug/L	2.0	0.70	
QC Batch ID: BYE2304						
Total Mercury	BYE2304-BLK1	ND	ug/L	0.20	0.033	
QC Batch ID: BYE2513						
Total Mercury	**BYE2513-BLK1**	**0.035000**	**ug/L**	**0.20**	**0.033**	**J**
QC Batch ID: BYE2558						
Total Antimony	BYE2558-BLK1	ND	ug/L	100	8.5	
Total Arsenic	BYE2558-BLK1	ND	ug/L	50	7.8	
Total Barium	BYE2558-BLK1	ND	ug/L	10	3.5	
Total Beryllium	BYE2558-BLK1	ND	ug/L	10	0.50	
Total Boron	**BYE2558-BLK1**	**0.044526**	**mg/L**	**0.10**	**0.013**	**J**
ɜl Cadmium	BYE2558-BLK1	ND	ug/L	10	1.1	
Total Chromium	BYE2558-BLK1	ND	ug/L	10	1.1	
Total Cobalt	BYE2558-BLK1	ND	ug/L	50	1.3	
Total Copper	BYE2558-BLK1	ND	ug/L	10	1.1	
Total Iron	BYE2558-BLK1	ND	mg/L	0.050	0.030	
Total Lead	BYE2558-BLK1	ND	ug/L	50	4.0	
Total Lithium	BYE2558-BLK1	ND	mg/L	0.020	0.0062	
Total Manganese	BYE2558-BLK1	ND	mg/L	0.010	0.0040	
Total Molybdenum	BYE2558-BLK1	ND	ug/L	50	1.2	
Total Nickel	BYE2558-BLK1	ND	ug/L	10	2.0	
Total Selenium	BYE2558-BLK1	ND	ug/L	100	15	
Total Silver	BYE2558-BLK1	ND	ug/L	10	1.9	
Total Strontium	BYE2558-BLK1	ND	mg/L	0.010	0.0010	
Total Thallium	BYE2558-BLK1	ND	ug/L	100	24	
Total Vanadium	BYE2558-BLK1	ND	ug/L	10	2.2	
Total Zinc	**BYE2558-BLK1**	**3.6444**	**ug/L**	**50**	**2.3**	**J**
QC Batch ID: BYF0170						
Total Recoverable Uranium	BYF0170-BLK1	ND	pCi/L	0.67	0.067	

era Energy
,0000 Ming Ave
Bakersfield, CA 93311

Reported: 06/11/2015 10:21
Project: Oilfield Produced Water Pond Testing
Project Number: DOW
Project Manager: Rod Bowyer

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYE2265	Used client sample: Y - Description: Well #7311 C-2, API #04030-52556, 05/26/2015 09:04										
Hexavalent Chromium	DUP	1512695-01	28.790	28.710		ug/L	0.3		10		
	MS	1512695-01	28.790	497.62	526.32	ug/L		89.1		85 - 115	
	MSD	1512695-01	28.790	491.37	526.32	ug/L	1.3	87.9	10	85 - 115	
QC Batch ID: BYE2304	Used client sample: N										
Total Mercury	DUP	1510960-01	ND	ND		ug/L			20		
	MS	1510960-01	ND	1.0025	1.0000	ug/L		100		70 - 130	
	MSD	1510960-01	ND	1.0000	1.0000	ug/L	0.2	100	20	70 - 130	
QC Batch ID: BYE2513	Used client sample: N										
Total Mercury	DUP	1512608-11	0.037500	0.042500		ug/L	12.5		20		J
	MS	1512608-11	0.037500	1.0500	1.0000	ug/L		101		70 - 130	
	MSD	1512608-11	0.037500	1.0050	1.0000	ug/L	4.4	96.8	20	70 - 130	
QC Batch ID: BYE2558	Used client sample: N										
al Antimony	DUP	512253-01RE'	ND	ND		ug/L			20		
	MS	512253-01RE'	ND	435.67	400.00	ug/L		109		75 - 125	
	MSD	512253-01RE'	ND	434.07	400.00	ug/L	0.4	109	20	75 - 125	
Total Arsenic	DUP	512253-01RE'	ND	ND		ug/L			20		
	MS	512253-01RE'	ND	213.67	200.00	ug/L		107		75 - 125	
	MSD	512253-01RE'	ND	215.31	200.00	ug/L	0.8	108	20	75 - 125	
Total Barium	DUP	512253-01RE'	106.18	107.53		ug/L	1.3		20		
	MS	512253-01RE'	106.18	558.60	400.00	ug/L		113		75 - 125	
	MSD	512253-01RE'	106.18	572.79	400.00	ug/L	2.5	117	20	75 - 125	
Total Beryllium	DUP	512253-01RE'	ND	ND		ug/L			20		
	MS	512253-01RE'	ND	206.83	200.00	ug/L		103		75 - 125	
	MSD	512253-01RE'	ND	209.14	200.00	ug/L	1.1	105	20	75 - 125	
Total Boron	DUP	512253-01RE'	1.4120	1.4452		mg/L	2.3		20		
	MS	512253-01RE'	1.4120	2.4886	1.0000	mg/L		108		75 - 125	
	MSD	512253-01RE'	1.4120	2.5614	1.0000	mg/L	2.9	115	20	75 - 125	
Total Cadmium	DUP	512253-01RE'	ND	ND		ug/L			20		
	MS	512253-01RE'	ND	216.19	200.00	ug/L		108		75 - 125	
	MSD	512253-01RE'	ND	220.53	200.00	ug/L	2.0	110	20	75 - 125	
Total Chromium	DUP	512253-01RE'	ND	ND		ug/L			20		
	MS	512253-01RE'	ND	207.32	200.00	ug/L		104		75 - 125	
	MSD	512253-01RE'	ND	208.19	200.00	ug/L	0.4	104	20	75 - 125	
Total Cobalt	DUP	512253-01RE'	ND	ND		ug/L			20		
	MS	512253-01RE'	ND	209.43	200.00	ug/L		105		75 - 125	
	MSD	512253-01RE'	ND	212.76	200.00	ug/L	1.6	106	20	75 - 125	

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era Energy
0000 Ming Ave
Bakersfield, CA 93311

Reported: 06/11/2015 10:21
Project: Oilfield Produced Water Pond Testing
Project Number: DOW
Project Manager: Rod Bowyer

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYF0170	Used client sample: N										
Total Recoverable Uranium	DUP	1512725-01	0.12194	0.12529		pCi/L	2.7		20		J
	MS	1512725-01	0.12194	28.265	26.800	pCi/L		105		70 - 130	
	MSD	1512725-01	0.12194	27.979	26.800	pCi/L	1.0	104	20	70 - 130	

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BSK Associates Engineers & Laboratories

A5E2300

General: Project Manager-Kerrie Vaughan

Case Narrative

Project and Report Details		Invoice Details	
Client:	BC Laboratories	**Invoice To:**	BC Laboratories
Report To:	Kerrie Vaughan	**Invoice Attn:**	Kerrie Vaughan
Project #:	1512692	**Project PO#:**	-
Received:	5/27/2015 - 16:14		
Report Due:	6/02/2015		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt °C: 3.5

Containers Intact
COC/Labels Agree
Received On Wet Ice
Packing Material - Bubble Wrap
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Kerrie Vaughan	FINAL.RPT	

A5E2300 FINAL 06022015 1653
Printed: 06/02/2015
QA-RP-0001-10 Final.rpt

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Page 2 of 10

BSK Associates Engineers & Laboratories

A5E2300

General: Project Manager-Kerrie Vaughan

1512692

Certificate of Analysis

Sample ID: A5E2300-02
Sampled By: Client
Sample Description: 1512692-02

Sample Date - Time: 05/26/15 - 14:15
Matrix: Water
Sample Type: Grab

BSK Associates Fresno

Radiological

Analyte	Method	Result	Units	Batch	Prepared	Analyzed	Qual
Gross Alpha	EPA 00-02	ND	pCi/L	A505865	05/28/15	06/01/15	
1.65 Sigma Uncertainty		0.191	±				
MDA95		536	pCi/L				

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BSK Associates Engineers & Laboratories

A5E2300

General: Project Manager-Kerrie Vaughan

BSK Associates Fresno

Radiological Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 00-02 - Quality Control											
Batch: A505865										Prepared: 05/28/2015	
Prep Method: EPA 00-02										Analyst: SAB	
Blank (A505865-BLK1)											
1.65 Sigma Uncertainty	ND		±							06/01/15	
Gross Alpha	ND	3	pCi/L							06/01/15	
MDA95	ND	0.00	pCi/L							06/01/15	
Blank Spike (A505865-BS1)											
Gross Alpha	26.3	3	pCi/L	30		88	80-120			06/01/15	
Blank Spike Dup (A505865-BSD1)											
Gross Alpha	27.3	3	pCi/L	30		91	80-120	4	50	06/01/15	
Matrix Spike (A505865-MS1), Source: A5E1879-01											
Gross Alpha	87.9	3	pCi/L	120	ND	73	70-130			06/01/15	
Matrix Spike (A505865-MS2), Source: A5E1950-01											
Gross Alpha	102	3	pCi/L	120	7.15	79	70-130			06/01/15	
Matrix Spike Dup (A505865-MSD1), Source: A5E1879-01											
Gross Alpha	102	3	pCi/L	120	ND	85	70-130	15	50	06/01/15	
Matrix Spike Dup (A505865-MSD2), Source: A5E1950-01											
Gross Alpha	96.1	3	pCi/L	120	7.15	74	70-130	6	50	06/01/15	

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A5E2300

05272015

BCLab4911

Turnaround: Standard
Due Date: 06/02/2015

BC Laboratories

Printed: 05/2 Page 8 of 10
Page 1 of 1

A5E2300 05/27/2015
BCLab4911 4

BSK Associates SR-FL-0002-13

Sample Integrity

BSK Bottles: Yes (No) Page 1 of 1

COC Info				
Was temperature within range? Chemistry ≤ 6°C Micro < 10°C	(Yes) No NA	Were correct containers and preservatives received for the tests requested?	(Yes) No NA
If samples were taken today, is there evidence that chilling has begun?	Yes No (NA)	Were there bubbles in the VOA vials? (Volatiles Only)	Yes No (NA)
Did all bottles arrive unbroken and intact?	(Yes) No	Was a sufficient amount of sample received?	(Yes) No
Did all bottle labels agree with COC?	(Yes) No	Do samples have a hold time <72 hours?	Yes (No)
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No (NA)	Was PM notified of discrepancies? PM: By/Time:	Yes No (NA)

Bottles Received — "–" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?	1-3					
Bact $Na_2S_2O_3$	—	—						
None (P) White Cap	—	—						
Cr6 (P) Bl. Green Label $NH_4OH(NH_4)_2SO_4$ DW	Cl pH > 8	Y N						
Cr6 (P) Pink Label Hex Chrome Buffer DW	pH 9-9.5	Y N						
Cr6 (P) Pink Label Hex Chrome Buffer WW	pH 9.3-9.7	Y N						
HNO_3 (P) Red Cap	—	—	1e					
H_2SO_4 (P) or (AG) Yellow Cap/Label	pH < 2	Y N						
NaOH (P) Green Cap	Cl, pH >10	Y N						
NaOH + ZnAc (P)	pH > 9	Y N						
Dissolved Oxygen 300ml (g)	—	—						
None (AG) 508/8081/8082, 625, 632/8321, 815, 8270								
HCl (AG) Lt. Blue Label O&G, Diesel	—	—						
Na_2O_3S+HCl (AG) Lt. Pink Label 525								
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—						
$Na_2S_2O_3$ (AG) Blue Label 547,515,548,THM,524	—	—						
$Na_2S_2O_3$ (CG) Blue Label 504, 505	—	—						
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH < 3	Y N						
NH_4Cl (AG) Purple Label 552	—	—						
EDA (AG) Brown Label DBPs								
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—						
Buffer pH 4 (CG)	—	—						
None (CG)	—	—						
H_3PO_4 (CG) Salmon Label								
Other:								
Asbestos 1Liter Plastic w/ Foil	—	—						
Low Level Hg / Metals Double Baggie	—	—						
Bottled Water	—	—						
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						

(C2) 5/27/15

Split		Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
	S P				S P			
	S P				S P			

Comments

Labeled by: JH @ 17:27 Labels checked by: AR @1729 RUSH Paged by: _____

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Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 1512692
Pace Project No.: 30149170

Pennsylvania Certification IDs
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: PA014572014-4
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 1512692
Pace Project No.: 30149170

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30149170001	1512692-01	EPA 903.1	JC2	1
		EPA 904.0	JLW	1
30149170002	1512692-02	EPA 903.1	JC2	1
		EPA 904.0	JLW	1
30149170003	1512692-03	EPA 903.1	JC2	1
		EPA 904.0	JLW	1

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PROJECT NARRATIVE

Project: 1512692
Pace Project No.: 30149170

Method: EPA 904.0
Description: 904.0 Radium 228
Client: BC Laboratories
Date: June 11, 2015

General Information:
3 samples were analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 1512692
Pace Project No.: 30149170

QC Batch: RADC/24678 Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0 Analysis Description: 904.0 Radium 228
Associated Lab Samples: 30149170001, 30149170002, 30149170003

METHOD BLANK: 902268 Matrix: Water
Associated Lab Samples: 30149170001, 30149170002, 30149170003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.0174 ± 0.281 (0.657) C:91% T:90%	pCi/L	06/08/15 13:17	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 1512692
Pace Project No.: 30149170

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Act - Activity
Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

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Sample Condition Upon Receipt

Pace Analytical

Client Name: BC Project# 30149170

Courier: ☐ Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____
Tracking #: 1Z9W37601683608603
Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no Biological Tissue is Frozen: Yes No
Packing Material: Bubble Wrap ___ Bubble Bags ___ None ___ Other _____
Thermometer Used N/A Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun
Cooler Temp.: Observed Temp.: N/A °C Correction Factor: N/A °C Final Temp: N/A °C
Date and initials of person examining contents: ARM 5/28/15
Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☑Yes ☐No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☑No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. No date/time on sample bottles.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13. Added 1mL HNO3 to sample 003. pH<2. ARM. 5/28/15 1115.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☑No ☐N/A	Initial when completed ARM Lot # of added preservative DL15-0433
exceptions: VOA, coliform, TOC, O&G, Phenols	☐Yes ☑No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: Carmen Serrio **Date:** 5/28/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

J:\QAQC\Master\Document Management\Sample Mgt\SCURF\FALLC003-09 SCUR Front 3March2015 Page 12 of 13

Aera Energy 10000 Ming Ave Bakersfield, CA 93311	**Reported:** 06/11/2015 10:21 Project: Oilfield Produced Water Pond Testing Project Number: DOW Project Manager: Rod Bowyer

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A01	Detection and quantitation limits are raised due to sample dilution.
A03	The sample concentration is more than 4 times the spike level.
A07	Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
A17	Surrogate not reportable due to sample dilution.
L01	The Laboratory Control Sample Water (LCSW) recovery is not within laboratory established control limits.
Q03	Matrix spike recovery(s) is(are) not within the control limits.
S09	The surrogate recovery on the sample for this compound was not within the control limits.
Z1	[50uL of antifoamer added to sample voa]

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