

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION
ORDER R5-2024-0019

AMENDING
ORDER R5-2020-0051-001
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT
CA0083861

AEROJET ROCKETDYNE, INC.
GROUNDWATER EXTRACTION AND TREATMENT SYSTEMS,
ARGET, GET E/F, GET HA, GET J, GET KA, GET LA, GET LB, GET AB
WHITE ROCK GET, SAILOR BAR PARK GET, GOLDEN STATE WATER WELLS
AND LOW THREAT DISCHARGES
SACRAMENTO COUNTY

FINDINGS

The California Regional Water Quality Control Board, Central Valley Region, (hereafter Central Valley Water Board) finds that:

1. On 16 October 2020, the Central Valley Water Board adopted Waste Discharge Requirements Order R5-2020-0051 (NPDES CA0079901) for Aerojet Rocketdyne, Inc., Groundwater Extraction and Treatment Systems, ARGET, GET E/F, GET HA, GET J, GET KA, GET LA, GET LB, GET AB, White Rock GET, Sailor Bar GET, Golden State Water Wells and Low-Threat Discharges, Sacramento County amended by Order R5-2021-0002 and replaced by Order R5-2020-0051-001 on 18 February 2021. For the purposes of this Order, Aerojet Rocketdyne Inc. is referred to as “Discharger” and the various treatment systems are referred to as “Facilities”. This Order amends Order R5-2020-0051-001 as summarized in Findings 2 and 3.
2. In a letter dated 11 July 2022, the Discharger described modifications needed to incorporate an additional discharge and discharge location associated with Golden State Water Company supply well Arden Cordova 25 (AC-25) and modify the place of treatment and discharge for existing well AC-6. These changes are in response to detections of low concentrations of perchlorate and trichloroethylene (TCE) found in the water produced by AC-6. AC-25 replaces AC-6 and provides treatment for perchlorate, and AC-6 was connected to Groundwater Extraction and Treatment system KA (GET KA) to help serve as plume control. When AC-6 was connected to GET KA, discharge at Discharge Point 013 ceased and monitoring at Monitoring Point M-013 was discontinued. Modifications to Order R5-2020-0051-001 are made to incorporate changes to AC-6 and the construction of the replacement water supply well AC-25.
3. This Order also includes corrections to minor grammatical and typographical errors throughout Order R5-2020-0051-001 where necessary.
4. Issuance of this Order is exempt from the provisions of the California Environmental Quality Act (Pub. Resources Code, § 21000 et seq.) (“CEQA”) pursuant to Water Code section 13389, since the adoption or modification of a NPDES permit for an existing source is statutorily exempt and this Order only serves to implement a NPDES permit. (*Pacific Water Conditioning Ass’n, Inc. v. Discharger Council of Discharger of Riverside* (1977) 73 Cal.App.3d 546, 555-556.). Issuance of this Order is also exempt

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from the provisions of CEQA in accordance with California Code of Regulations (CCR), title 14, section 15321, subdivision (a)(2).

5. The Central Valley Water Board has notified the Discharger and interested agencies and persons of its intent to amend Waste Discharge Requirements for this discharge and has provided them with an opportunity to submit their written views and recommendations.

BOARD ACTION
IT IS HEREBY ORDERED THAT:

Effective 15 July 2024, Waste Discharge Requirements Order R5-2020-0051-001 (NPDES CA0083861) is amended as shown in items 1 through 31 below.

1. The Order number is changed from R5-2020-0051-001 to R5-2020-0051-002 throughout the Order.
2. **Cover Page.** Modify the last paragraph to the text shown below:

I, PATRICK PULUPA, Executive Officer, do hereby certify that this Order with all attachments is a full, true, and correct copy of the Order adopted by the California Regional Water Quality Control Board, Central Valley Region, on 16 October 2020, and amended by Order R5-2021-0002 on 18 February 2021 and by Order R5-2024-0019 on **19 April 2024**.

3. **Table 3. Discharge Locations.** Revise Table 3. Discharge Locations as shown below. Only sections of the table with changes are shown.

Table 3. Discharge Locations

Discharge Point	Effluent Description	Discharge Point Latitude (North)	Discharge Point Longitude (West)	Receiving Water
Outfall 004	Treated Groundwater from GET KA and AC-25	38°, 36', 07" N	121°, 19', 02" W	Drainage Ditch to American River

4. **Waste Discharge Requirements, Section I. FACILITY INFORMATION.** Modify the table in Section I as shown below. Only sections of the table with changes are shown.

Facility Design Flows	ARGET – 5.04 million gallons per day (mgd) – Discharge 001, Outfall 001 GET E/F – 11.52 mgd – Discharge 002, Outfall 001 GET HA – 3.9 mgd – Discharge 004, Outfall 005 and/or 006 GET J – 6.75 mgd – Discharge 005, Outfall 001 GET KA– 5.11 mgd – Discharge 007, Outfall 004 GET LA – 2.88 mgd – Discharge 008, Outfall 002 GET LB – 1.44 mgd – Discharge 009, Outfall 002 Sailor Bar Pond – 0.58 mgd – Discharge 010, Outfall 007 AC-25 – 1.3 mgd – Discharge 020, Outfall 004 AC-18 – 2.59 mgd - Discharge 014, Outfall 006 GET AB – 5.76 mgd- Discharge 016, Outfall 001 White Rock GET – 2.88 mgd-Discharge 017, Outfall 001 and/or Outfall 010 Cooling Tower 20019, - 0.0008 mgd - Discharge 019, Outfall 001
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5. **Waste Discharge Requirements, Section II. FINDINGS.** Add the following description to the end of Section II.A

Modifications in the Permit Revision

On 11 July 2022, the Discharger requested modifications to this permit to add discharges associated with new Golden State supply well AC-25 and remove the discharges associated with well AC-6. Golden State Well AC-25 was constructed to provide Golden State with an additional drinking water source that they believe will not contain TCE and will contain lower concentrations of perchlorate compared to AC-6. Additionally, unlike at AC-6, there is sufficient space near AC-25 to install TCE treatment units in the future, if needed. The ion exchange system at AC-6 was relocated to AC-25 and use of AC-6 as a supply well has ceased. AC-6 was connected to GET KA to serve as a plume containment extraction well, and an ion exchange system was installed at GET KA for treatment of perchlorate. AC-25 discharges associated with well startup, well shutdown, and ion exchange system rinses will discharge to the storm drain under Discharge Point 012 at Outfall 004. Subsequent discharges that are not during well startup and shutdown are covered under Discharge Point 020 at Outfall 004 and monitored at Monitoring Location 020.

When AC-6 was connected to GET KA, discharges under Discharge Point 013 ceased and monitoring at MINFL and Monitoring Location 013 was discontinued. GET KA will continue to discharge at Outfall 004 inclusive of the water from AC-6.

6. **Waste Discharge Requirements, Section II. FINDINGS.** Modify the table in section II.H as shown below. Only sections of the table with changes are shown.

Discharge Point	Receiving Water Name	Beneficial Use(s)
007, 008, 009, 012, and 020	American River	Existing: MUN, AGR, REC-1, REC-2, WARM, COLD, MIGR, SPWN, WILD.

7. **Waste Discharge Requirements, Section IV. EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS.** Revise the text in Section IV.A as shown.

Discharge Points 001, 002, 004, 005, 007, 008, 009, 010, 012, 014, 016, 017, 019, 020 (Discharge Points 003, 006, 011, 013, 015, and 018 are no longer used)

8. **Waste Discharge Requirements, Section IV. EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS.** Revise the information in Section IV.A.13 as shown.

The discharge of purge water and aquifer test water from monitor wells, extraction wells, and supply wells, including the intermittent start-up and shut-down discharges, and ion exchange rinses associated with Arden Cordova Wells AC-25, and AC-18 shall maintain compliance with the following effluent limitations with compliance measured at Monitoring Point M-012, as described in the attached Monitoring and Reporting Program (Attachment E):

9. **Waste Discharge Requirements, Section IV. EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS.** Replace the information in Section IV.A.14 as shown.

This Discharge Point is no longer used as all extracted groundwater from AC-6 is sent to GET KA (Discharge Point 007).

10. **Waste Discharge Requirements, Section IV. EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS.** Add Section IV.A.21 as shown below.

21. Final Effluent Limitations - Discharge Point 020

The Discharger shall maintain compliance with the following effluent limitations for the AC-25 Facility at Discharge Point 020, except for start-up and shut-down discharges and ion exchange resin rinsing that have final effluent limits assigned under Discharge Point 12, with compliance measured at Monitoring Location M-020 as described in the Monitoring and Reporting Program, Attachment E:

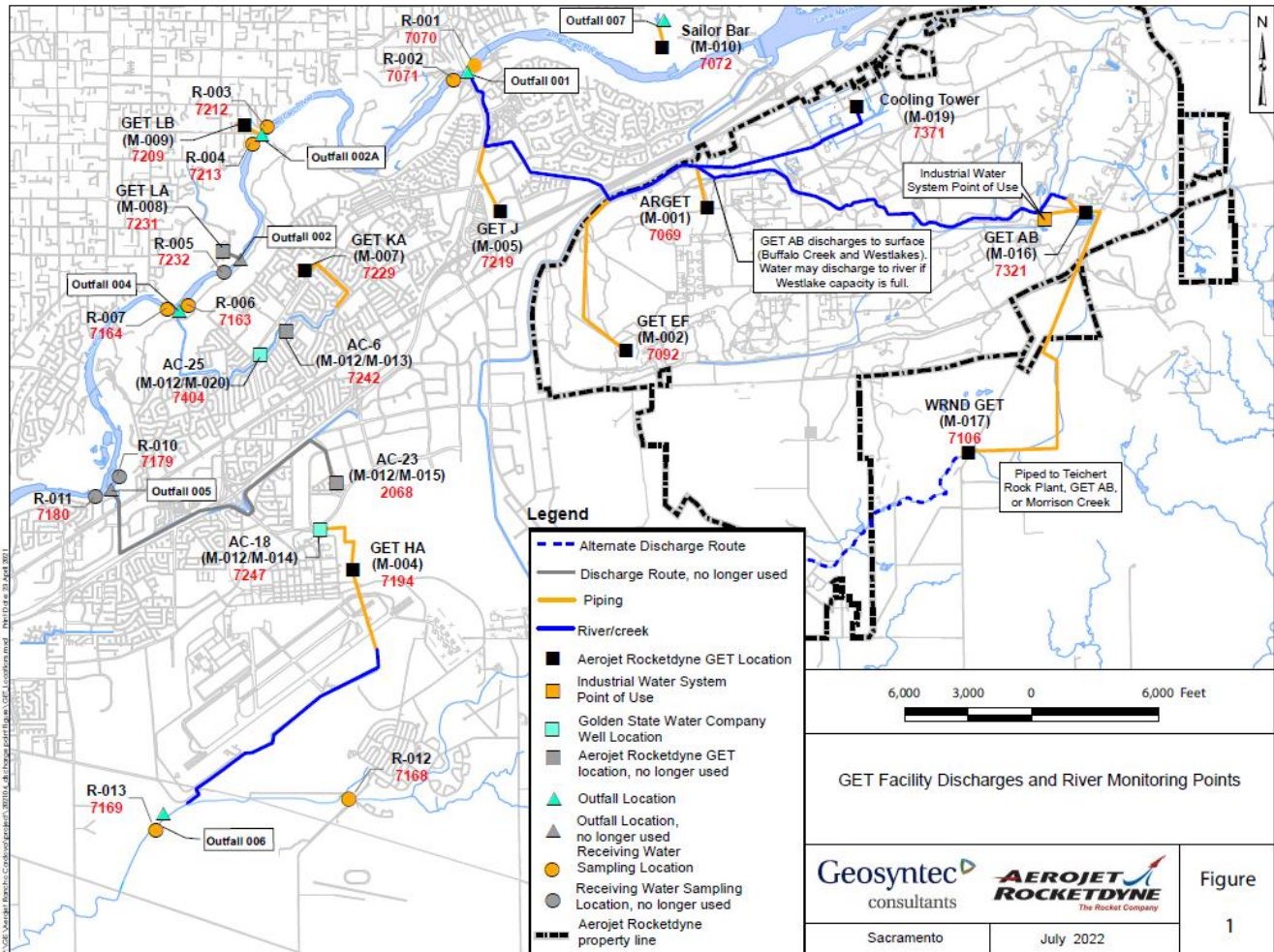
- a. The Discharger shall maintain compliance with the effluent limitations specified in Table 16:

Table 16. Effluent Limitations

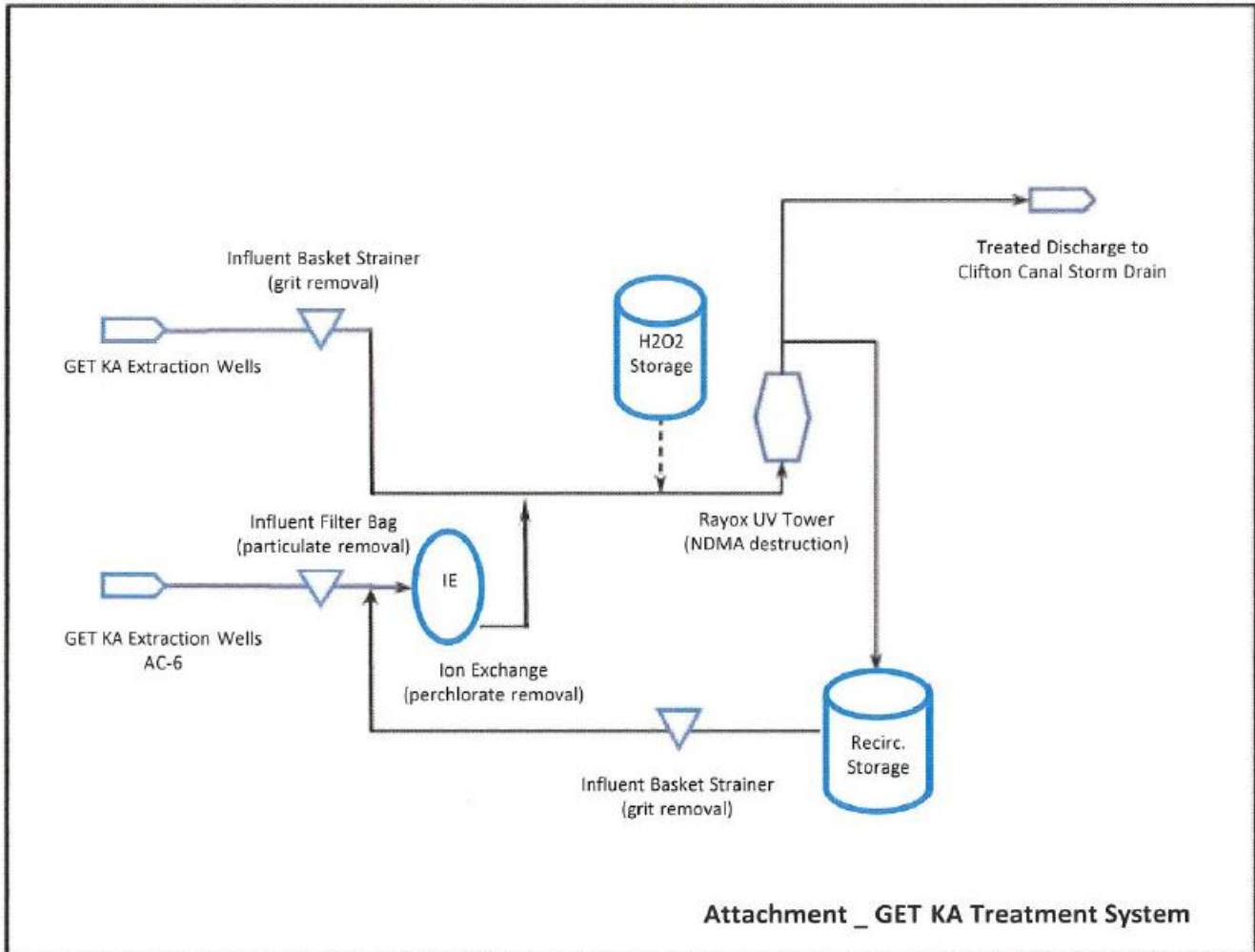
Parameters	Units	Average Monthly	Maximum Daily
Flow – Discharge 020	mgd	1.3	1.3
Trichloroethylene	µg/L	0.5	0.7
Trichloroethylene	lbs/day	0.0046	0.0064
Tetrachloroethylene	µg/L	5.0	5.0
Tetrachloroethylene	lbs/day	0.046	0.046
Perchlorate	µg/L	4	6
Perchlorate [1]	lbs/day	0.036	0.055
Chloroform	µg/L	3	5
Chloroform	lbs/day	0.028	0.046

[1] When perchlorate treatment system is being used the limit is 4 µg/L, otherwise it is 6 µg/L.

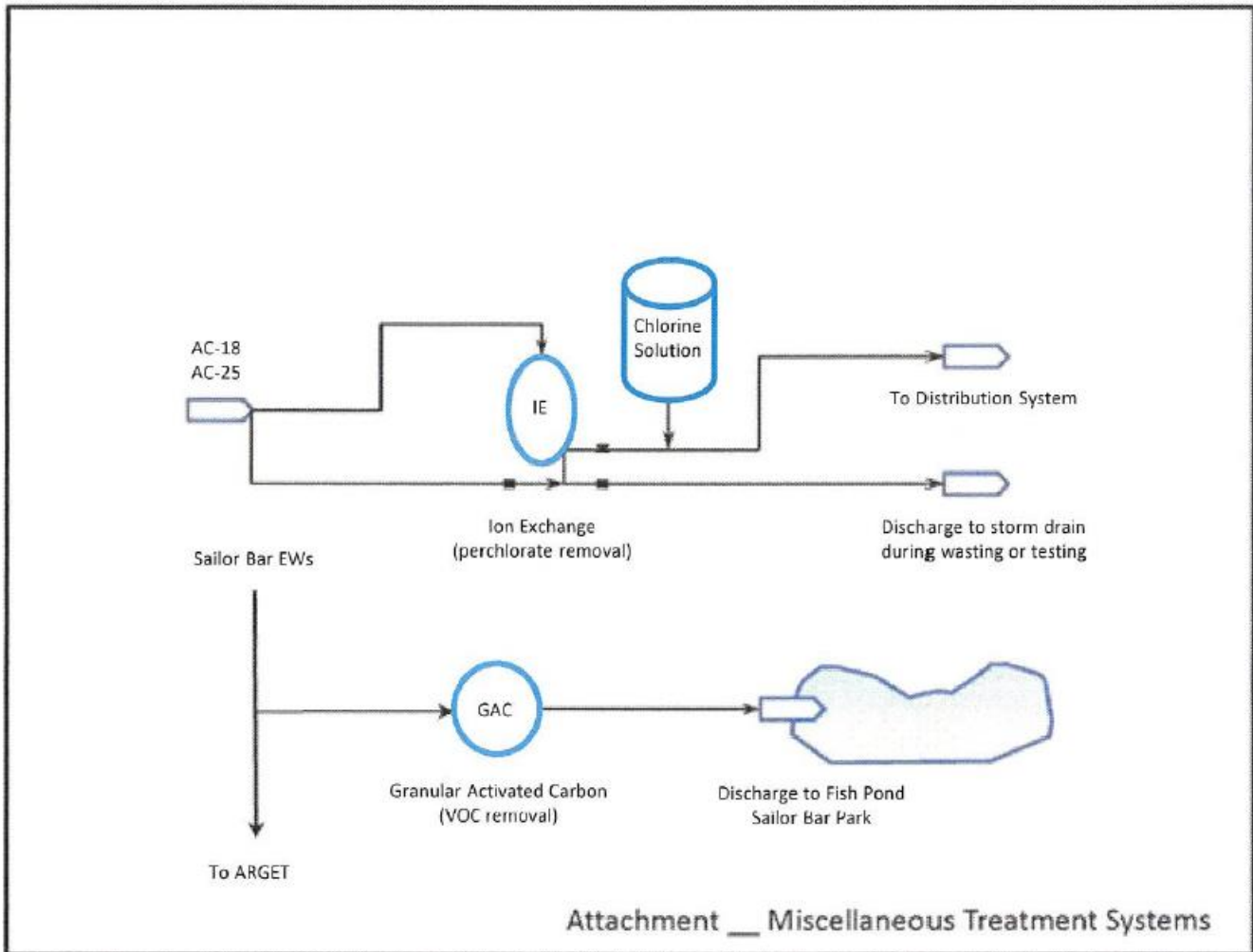
11. **ATTACHMENT B – MAPS.** Replace Attachment B-1. Discharge and GET Locations with the figure shown below.



12. **ATTACHMENT C – FLOW SCHEMATICS.** Replace Attachment C-5. GET KA Treatment System with the figure shown below.



13. **ATTACHMENT C – FLOW SCHEMATICS.** Replace Attachment C-10. Miscellaneous Treatment Systems with the figure shown below.



14. **Attachment E – Monitoring and Reporting Program, Section II. MONITORING LOCATIONS.** Modify Table E-1. Monitoring Station Locations as shown below. Only sections of the table with changes are shown.

Table E-1. Monitoring Station Locations

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
013	M-013	No longer used
020	M-020	Effluent from AC-25 Well System
--	MINFL	No longer used
--	MINFQ	Influent to AC-25 Well System

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
--	R-006	R-006 (upstream) on American River from discharge water from long term GET KA (Discharge 007) and AC-25 (Discharge 020) into American River at Latitude 38°, 36', 07" N, Longitude 121°, 19', 02" W
--	R-007	R-007 (downstream) on American River from discharge water from long term GET KA (Discharge 007) and AC-25 (Discharge 020) into American River at Latitude 38°, 36', 07" N, Longitude 121°, 19', 02" W

15. **Attachment E – Monitoring and Reporting Program, Section III. INFLUENT MONITORING REQUIREMENTS.** Revise the text in Section III.D as shown below.

D. Locations MINFE, MINFG, MINFH, MINFI, MINFQ, and MINFP

- The Discharger shall monitor the influent to GET J, GET KA, GET LA, GET LB, AC-25 well system, and White Rock GET at MINFE, MINFG, MINFH, MINFI, MINFQ, and MINFP, respectively, as follows in Table E-4:

16. **Attachment E – Monitoring and Reporting Program, Section IV. EFFLUENT MONITORING REQUIREMENTS.** Remove Section IV.I, Monitor Location M-013, and renumber the subsections as needed.

17. **Attachment E – Monitoring and Reporting Program, Section IV. EFFLUENT MONITORING REQUIREMENTS.** Add Section IV.M as shown below.

M. Monitor Location M-020

- The Discharger shall monitor the AC-25 Well System M-020 in accordance with Table E-17:

Table E-17. Effluent Monitoring

Pollutant Parameter	Units	Sample Type	Minimum Sampling Frequency
Flow	MGD	Meter	Continuous
pH	standard units	Grab	Monthly
Volatile organics	µg/L	Grab	Monthly
Perchlorate	µg/L	Grab	Monthly
N-nitrosodimethylamine	ng/L	Grab	Monthly
Temperature	°F/°C	Grab	Monthly
Dissolved oxygen	mg/L	Grab	Monthly

Pollutant Parameter	Units	Sample Type	Minimum Sampling Frequency
Electrical Conductivity @ 25°Celsius	µmhos/cm	Grab	Monthly
Turbidity	NTU	Grab	Monthly

Sampling for n-nitrosodimethylamine begins following detection in the influent.

18. **Attachment F – Fact Sheet, Section I. PERMIT INFORMATION.** Modify Table F-1. Facility Information as shown below. Only sections of the table with changes are shown.

Table F-1. Facility Information

Facility Permitted Flow:	ARGET – 5.04 mgd, GET E/F – 11.52 mgd, GET HA – 3.9 mgd, GET J – 6.75 mgd, GET KA– 5.11 mgd, GET LA – 2.88 mgd, GET LB – 1.44 mgd, AC-25 – 1.3 mgd, AC-18 – 2.59 mgd, GET AB – 5.76 mgd, White Rock GET – 2.88, Cooling Tower 20019 - 0.0008 mgd, Sailor Bar Pond - 0.58 mgd
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19. **Attachment F – Fact Sheet, Section I. PERMIT INFORMATION.** Revise the first paragraph of Section I.A as shown below.
- A.** The Aerojet Rocketdyne, Inc. (hereinafter Discharger) is the owner and operator of ARGET, GET E/F, GET HA, GET J, GET KA, GET LA, GET LB, Sailor Bar Pond Treatment System, GET AB and White Rock GET (hereinafter Facilities), groundwater treatment systems. Golden State is the owner and operator of AC-18 Well System and AC-25 Well System.
20. **Attachment F – Fact Sheet, Section II. FACILITY DESCRIPTION.** Revise the text in Section II.A.9 as shown below.
- 9. Purge and Aquifer Test Waters (Discharge 012).** The Discharger develops and purges wells prior to sampling and conducts aquifer tests on extraction/supply wells to determine aquifer characteristics to allow GET systems to be designed. These activities take place over vast areas on and off the Discharger’s property. The purge water is generally low in volume (100’s – 5,000 gallons) and is provided treatment prior to discharge. Treatment is provided on the discharges to remove the pollutants of concern. If treatment is not practical, the water is contained and discharged through the sanitary sewer system with the Discharger’s wastewater discharge permit with the Sacramento Regional County Sanitation District (SRCSD). In addition to these well discharges, low volumes of water are discharged from two wellhead treatment systems described below in Discharges 014 and 020 during replacement of the ion exchange resin and during well start-up and shutdown. The discharges

occur infrequently and depend on the concentration of perchlorate in the influent to the treatment system which affects the useable life of the resin.

21. **Attachment F – Fact Sheet, Section II. FACILITY DESCRIPTION.** Remove the text in Section II.A.10, AC-6 (Discharge 013), and renumber the subsections as needed.
22. **Attachment F – Fact Sheet, Section II. FACILITY DESCRIPTION.** Revise the text in Section II.A.11 as shown below.
 11. **AC-18 (Discharge 014).** Golden State’s water supply well AC-18 on International Drive in Rancho Cordova has been found to contain perchlorate. Perchlorate removal using ion-exchange has been added to AC-18 well site. This well will only be operated on-demand and so the discharge to the storm drain will only occur during well startup and shutdown to minimize pressure issues within the distribution system.
23. **Attachment F – Fact Sheet, Section II. FACILITY DESCRIPTION.** Add Section II.A.14 as shown below.
 14. **AC-25 (Discharge 020).** Golden State’s water supply well AC-6 on Dolecetto Drive in Rancho Cordova was found to contain perchlorate and low concentrations of TCE. AC-6 is not designed to treat TCE and there is not sufficient space within the well compound to add the additional treatment necessary to remove TCE. To maintain an adequate and reliable water supply, AC-25 was constructed in a nearby location where only low level concentrations of perchlorate in groundwater are expected. The new AC-25 well location was reviewed by the State Water Resources Control Board, Division of Drinking Water (DDW) and found to be acceptable per a letter from DDW dated 18 May 2022. As part of the development of the AC-25 well, the existing perchlorate treatment system located at the AC-6 site was relocated to the AC-25 site and the use of AC-6 as a water supply well has ceased. AC-6 has been connected to the GET KA collection system and operation of AC-6 will continue which will help serve plume containment. GET KA will continue to discharge, inclusive of water from AC-6, at Discharge Point 007 and effluent will be monitored at Monitoring Location M-007, with the treated effluent discharged to the American River via Outfall 004. AC-25 discharges that are not during well startup, well shutdown, or ion exchange system rinses may be discharged to the storm drain under Discharge 20. The permitted discharge flow for well AC-25 under Discharge 20 is 1.3 mgd. Separately, AC-25 discharges to the storm drain under Discharge Point 012 may occur with well startup and shutdown activities and ion exchange system rinses.
24. **Attachment F – Fact Sheet, Section II. FACILITY DESCRIPTION.** Modify Table F-2. Discharge Points and Receiving Waters as shown below. Only sections of the table with changes are shown.

Table F-2. Discharge Points and Receiving Waters

Discharge Point	Effluent Description	Discharge Point Latitude (North)	Discharge Point Longitude (West)	Receiving Water
Outfall 004	Treated Groundwater from GET KA and AC-25	38°, 36', 07" N	121°, 19', 02" W	Drainage Ditch to American River

25. **Attachment F – Fact Sheet, Section II. FACILITY DESCRIPTION.** Revise the text in the first sentence of Section II.C.3 as shown below.

3. Treated groundwater is discharged from Discharges 001, 002, 005, 016, 017 and 019 to Buffalo Creek (tributary to the American River), from Discharges 004, 014 and 017 to Morrison Creek (tributary to the Sacramento River), from Discharges 007, 008, 009, and 020 to drainage channels to the American River, and from Discharge 010 to a pond in Sailor Bar Park (see table on cover page), waters of the United States and part of the Sacramento-San Joaquin Delta (Delta) within the American River and Sacramento River watersheds.

26. **Attachment F – Fact Sheet, Section III. APPLICABLE PLANS, POLICIES, AND REGULATIONS.** Modify Table F-5. Beneficial Uses as shown below. Only sections of the table with changes are shown.

Table F-5 – Beneficial Uses

Discharge Point	Receiving Water Name	Beneficial Use(s)
007,008, 009, 012, and 020	American River	<u>Existing:</u> MUN, AGR, REC-1, REC-2, WARM, COLD, MIGR, SPWN, WILD.

27. **Attachment F – Fact Sheet, Section IV. RATIONALE FOR EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS.** Revise the text in Section IV.B.2.a as shown below.

- a. **Flow.** A technology-based effluent limitation for flow is established in this Order to monitor the performance of the groundwater treatment systems from the standpoint of volumes being treated. The maximum daily flow rates in previous Order R5-2011-0088 were based on the designed flows and are retained in this Order. This Order contains a maximum daily and long term average effluent limitations of 5.04 mgd for ARGET, 11.52 mgd for GET E/F, 3.9 mgd for GET HA, 6.75 mgd for GET J, 5.11 mgd for GET KA, 2.88 mgd for GET LA, 1.44 mgd for GET LB, 5.76 mgd for GET AB, 2.88 mgd for White Rock GET, 0.58 mgd for Sailor Bar Park Well, 1.3 mgd for AC-25, and 2.59 mgd for AC-18 based on the maximum daily effluent flows reported in Aerojet’s RWD. In accordance with 40 CFR Section 122.45, this Order includes mass effluent limitations based on the long-term average effluent flows listed above and reported in the Discharger’s RWD.

28. **Attachment F – Fact Sheet, Section IV. RATIONALE FOR EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS.** Revise the first sentence of Section IV.B.2.b as shown below.

b. **Perchlorate.** The monthly average effluent limitation for perchlorate is established at 4 µg/L, a value that the Discharger, utilizing commercially available technology at ARGET, GET AB, GET HA, GET J and AC-25, has shown to be capable of technically and economically meeting on a consistent basis.

29. **Attachment F – Fact Sheet, Section IV. RATIONALE FOR EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS.** Revise the text in the second paragraph of Section IV.B.2.d as shown below.

Carbon adsorption and ultraviolet light are not entirely effective on the removal of chloroform at low concentrations. GET J, GET HA, AC-25, and Well 4665 have low influent concentrations of chloroform (approximately 1 µg/L for GET J, AC-25, and Well 4665; approximately 0.55 µg/L for GET HA). Removal of chloroform by GAC is expensive. As an example, relying on removal of chloroform to 0.5 µg/L by carbon increases the cost of operating GET J by over \$500,000 per year. The effluent limit for chloroform for GET J is set at 3 µg/L which will meet the WQBEL for chloroform of 1.1 µg/L in Buffalo Creek as it mixes with the effluents from GETs E/F and ARGET. The average monthly effluent limit for chloroform for AC-25 is also 3 µg/L as it will mix with the effluent from GET KA in the drainage channel to the American River. The chloroform average monthly effluent limit from GET HA is set at 2 µg/L as it mixes with the effluent from GET HB in the drainage channel to Morrison Creek.

30. **Attachment F – Fact Sheet, Section IV. RATIONALE FOR EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS.** Modify Table F-7. Summary of Technology-based Effluent Limitations as shown below. Only sections of the table and table notes with changes are shown.

**Summary of Technology-based Effluent Limitations
 Discharge Point Nos. 001, 002, 004, 005, 007, 008, 009, 010,
 014, 015, 016, and 017, and 020**

Table F-7. Summary of Technology-based Effluent Limitations

Parameter	Units	Effluent Limitations Monthly Average	Effluent Limitations Daily Maximum
Golden State AC-25 Flow	mgd	1.3	1.3
GET HA, GET J, AC-25 Chloroform	µg/L	3	5

Table F-7 Notes:

1. 1,2-dichloroethane has a WQBEL, listed below, that is more stringent than the 0.5 µg/L listed on this table. GET E/F has an effluent limit of 1.5 for TCE and cis-1,2-DCE. Chloroform has an average monthly effluent limit of 3 µg/L for GET J and AC-25 and an average monthly effluent limit of 2 µg/L for GET HA.

31. **Attachment F – Fact Sheet, Section IV. RATIONALE FOR EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS.** Modify Table F-11. Summary of Final Effluent Limitations, as shown below.

Table F-11. Summary of Final Effluent Limitations

Parameter	Units	Effluent Limitations Avg Monthly/Daily Max	Basis ¹
Flow – Discharge 001	mgd	AMEL 5.04 MDEL 5.04	DC
Flow – Discharge 002	mgd	AMEL 11.52 MDEL 11.52	DC
Flow – Discharge 004	mgd	AMEL 3.9 MDEL 3.9	DC
Flow – Discharge 005	mgd	AMEL 6.75 MDEL 6.75	DC
Flow – Discharge 007	mgd	AMEL 5.11 MDEL 5.11	DC
Flow – Discharge 008	mgd	AMEL 2.88 MDEL 2.88	DC
Flow – Discharge 009	mgd	AMEL 1.44 MDEL 1.44	DC
Flow – Discharge 010	mgd	AMEL 0.58 MDEL 0.58	DC
Flow – Discharge 014	mgd	AMEL 2.59 MDEL 2.59	DC
Flow – Discharge 016	mgd	AMEL 5.76 MDEL 5.76	DC
Flow – Discharge 017	mgd	AMEL 2.88 MDEL 2.88	DC
Flow – Discharge 019	mgd	AMEL 0.0009 MDEL 0.0009	DC
Flow – Discharge 020	mgd	AMEL 1.3 MDEL 1.3	DC
Volatile Organic Contaminants	µg/L	AMEL 0.5 MDEL 0.7	ML
Trichloroethylene–Discharge 002	µg/L	AMEL 1.5 MDEL 1.5	BP

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Parameter	Units	Effluent Limitations Avg Monthly/Daily Max	Basis1
cis-1,2-dichlorethylene -Discharge 002	µg/L	AMEL 1.5 MDEL 1.5	BP
Chloroform – Discharges 005 and 020	µg/L	AMEL 3.0 MDEL 5.0	BP
Chloroform – Discharge 004	µg/L	AMEL 2 MDEL 5	BP
1,4-Dioxane -	µg/L	AMEL 4 MDEL 6	ML, BP
1,2-Dichloroethane	µg/L	AMEL 0.38 MDEL 0.5	BP
N-nitrosodimethylamine – Discharges 001, 002	µg/L	AMEL 0.002 MDEL 0.010	ML
N-nitrosodimethylamine Discharges 005, 007, 008, 009	µg/L	AMEL 0.007 MDEL 0.007	PF, BP
N-nitrosodimethylamine Discharges 016,017	µg/L	AMEL 0.003 MDEL 0.007	PF, BP
Perchlorate	µg/L	AMEL 4 MDEL 6	ML
Perchlorate – Discharge 002	µg/L	AMEL 6 MDEL 10	PF, BP
Acetaldehyde	µg/L	AMEL 5 MDEL 5	BP
Formaldehyde	µg/L	AMEL 50 MDEL 50	BP
Acrylamide	µg/L	AMEL 0.05 MDEL 0.05	BP
Chlorine Residual	mg/L	AMEL 0.01 MDEL 0.02	NAWQC
pH	Standard units	Instantaneous Max 8.5 Instantaneous Min 6.5	BP
Acute Toxicity	% survival	See footnote 2	BP
Chronic Toxicity	TUc	No toxicity – 1	BP

Any person aggrieved by this action of the Central Valley Water Board may petition the State Water Board to review the action in accordance with CWC 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., 30 days after the date that this Order becomes final, except that if the thirtieth day following the date that this Order becomes final falls on a Saturday, Sunday, or state holiday (including mandatory furlough days), the petition must be received by the State Water Board by 5:00 p.m. on the next business day.

[Links to the laws and regulations applicable to filing petitions](#)

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(http://www.waterboards.ca.gov/public_notices/petitions/water_quality) may be found on the Internet or will be provided upon request.

I, PATRICK PULUPA, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Central Valley Region, on 19 April 2024.

PATRICK PULUPA, Executive Officer