



Central Valley Regional Water Quality Control Board

15 December 2020

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WATER CODE 13383 ORDER, NAUTILUS DATA TECHNOLOGIES – DATA STORAGE FACILITY PROJECT, WASTE DISCHARGE REQUIREMENTS ORDER R5-2016-0076-040, SAN JOAQUIN COUNTY

The California Regional Water Quality Control Board, Central Valley Region (Central Valley Water Board) finds the following:

1. **Responsible Party.** Nautilus Data Technologies (Discharger) owns the Data Storage Facility (Facility), located at the Port of Stockton in the City of Stockton, San Joaquin County.
2. **San Joaquin River.** Discharge at the Facility is anticipated to begin December 2020. The Facility will discharge to the San Joaquin River, a water of the United States, within the Sacramento-San Joaquin Delta. The Central Valley Water Board’s Water Quality Control Plan for the Sacramento River and San Joaquin River Basins designates the following beneficial uses for the Sacramento-San Joaquin Delta: Municipal and Domestic Supply (MUN), Agricultural Supply (AGR), Industrial Process Supply (PROC), Industrial Service Supply (IND), Water Contact Recreation (REC-1), Non-contact Water Recreation (REC-2), Warm Freshwater Habitat (WARM), Cold Freshwater Habitat (COLD), Migration of Aquatic Organisms (MIGR), Spawning, Reproduction, and/or Early Development (SPWN), Wildlife Habitat (WILD), and Navigation (NAV).
3. **Limited Threat Discharges to Surface Waters General Order.** The Facility is regulated under the National Pollutant Discharge Elimination System (NPDES) General Order for Waste Discharge Requirements for Limited Threat Discharges to Surface Water (Limited Threat General Order), Order R5-2016-0076-01, enrollee number R5-2016-0076-040. The Central Valley Water Board issued the Notice of Applicability (NOA) on 24 January 2019.
4. **Water Code Section 13383.** Under Water Code section 13383, subdivision (a), the regional board “may establish monitoring, inspection, entry, reporting, and recordkeeping requirements . . . for any person who discharges, or proposes to discharge, to navigable waters” The regional board “may require any person subject to this section to establish and maintain monitoring equipment or methods,

KARL E. LONGLEY ScD, P.E., CHAIR | PATRICK PULUPA, ESQ., EXECUTIVE OFFICER

including, where appropriate, biological monitoring methods, sample effluent as prescribed, and provide other information as may be reasonably required.” (Water Code, § 13383, subd. (b); see also 33 U.S.C. § 1318(a); 40 C.F.R. § 122.41(h)).

- 5. Duty to Provide Information.** The Limited Threat General Order contains standard provisions, Attachment B, section V.A, that requires the Discharger to “. . . furnish to the Central Valley Water Board, State Water Board, or U.S. EPA within a reasonable time, any information which the Central Valley Water Board, State Water Board, or U.S. EPA may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order or to determine compliance with this Order. Upon request, the Discharger shall also furnish to the Central Valley Water Board, State Water Board, or U.S. EPA copies of records required to be kept by this Order.”

Furthermore, the Limited Threat General Order contains a receiving water limitation, section VII.A.3, that states the discharge shall not cause the receiving water “. . . to contain biostimulatory substances which promote aquatic growths in concentrations that cause nuisance or adversely affect beneficial uses.”, and , Special Provisions section IX.A.2.e requires, “All Dischargers authorized to discharge under this General Order shall take all reasonable steps to minimize any adverse effects to waters of the State or users of those waters resulting from any discharge or disposal in violation of this General Order. Reasonable steps shall include such accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying discharge or sludge use or disposal.” Elevated temperature is a factor that is known to contribute to harmful algal blooms, which have occurred in the San Joaquin River in the vicinity of the discharge as discussed in Finding 8, below.

- 6. Water Quality Control Plan for Control of Temperature in the Coastal and Interstate Waters and Enclosed Bays and Estuaries of California (Thermal Plan).** The Thermal Plan includes specific temperature water quality objectives and definitions for coastal, interstate waters, enclosed bays, and estuaries in California. All discharges to these waters need to comply with the requirements in the Thermal Plan. The Thermal Plan characterizes cooling water and industrial process water used for the purpose of transporting waste heat, like that from the Facility, as a thermal waste and the Sacramento-San Joaquin Delta as an estuary. Therefore, discharges from the Facility need to comply with the water quality objectives in the Thermal Plan for thermal waste discharges to estuaries.

The Thermal Plan includes that new thermal waste discharges to estuaries shall not exceed a maximum temperature of 86° Fahrenheit, shall not exceed 4° Fahrenheit above the ambient receiving water temperature, and allows for additional limitations, when necessary, to assure protection of beneficial uses. Monitoring, in addition to the monitoring required in the NOA, is needed to assess compliance with the Thermal Plan.

- 7. Potential Liability for Noncompliance.** Pursuant to Water Code section 13385, any person who violates a requirement established pursuant to section 13383 may be subject to an administrative civil liability up to \$10,000 for each day in which the violation occurs. The Central Valley Water Board may also seek judicially imposed civil liabilities up to \$25,000 for each day in which the violation occurs.

8. Need for Additional Water Quality Monitoring.

- a. **Harmful Algal Blooms.** Harmful Algal Bloom (HAB) outbreaks in the San Joaquin River, at and around the Facility’s point of discharge, have been known to occur from April through October. Monitoring, in addition to monitoring required in the NOA, is needed at this location to evaluate the effects of the discharge on HABs. Neither the State Water Resources Control Board (State Water Board) or Central Valley Water Board have a HAB monitoring program in place. The State Water Board has a response system when HABs are reported by the public. Central Valley Water Board staff will then sample for cyanotoxins such as microcystins, anatoxin-a, and/or saxitoxins at the reported location but do not conduct follow up samples under the reporting and response system. Central Valley Water Board staff has sampled the San Joaquin River, near the Facility, for cyanobacteria and cyanotoxins several times since 2019 due to reported outbreaks by the public.

California has established recreational human and animal health trigger levels, shown below in Table 1, for microcystins and anatoxin-a. Monitoring for these cyanotoxins using established analytical methods and comparing the results to established human and animal health trigger levels will allow the Discharger to proactively respond operationally as needed. In addition, monitoring for saxitoxin may provide valuable data to establish future action triggers. Therefore, this Order requires sampling for microcystins, anatoxin-a and saxitoxin.

Table 1 – Algae Action Triggers

| Criteria | No Advisory | Caution (Tier 1) | Warning (Tier 2) | Danger (Tier 3) |
|--------------------|--------------------|-------------------------|-------------------------|------------------------|
| Total Microcystins | < 0.8 µg/L | 0.8 µg/L | 6 µg/L | 20 µg/L |
| Anatoxin-a | Non-detect | Detected | 20 µg/L | 90 µg/L |

- 1. Action levels are met when one or more criteria are met.
 - 2. Microcystins refers to the sum of all measured Microcystin congeners.
 - 3. Must use an analytical method that detects ≤ 1µg/L Anatoxin-a.
- b. **Temperature.** Additional temperature monitoring is needed as discussed herein. Temperature requirements are included in the Discharger’s California State Land Commissions Lease Amendment (CSLC Lease Amendment) stemming from the Discharger’s 2016 temperature model which indicates a 0.2-degree Fahrenheit maximum increase 500-feet from the point of discharge. Furthermore, the Discharger’s 2016 temperature model is not suited to predict a possible zone of influence around the Facility where it could possibly intake its own thermal discharge. Temperature monitoring, in addition to monitoring in the NOA, is needed to:
 - i. Better understand the Facility’s thermal discharge effects;
 - ii. Evaluate the intake, effluent, and ambient conditions;
 - iii. Verify the 2016 temperature modeling results provided by the Discharger in the NOI;
 - iv. Assess compliance with the CSLC Lease Amendment and;
 - v. Assess compliance with the Thermal Plan.

- c. **Plan of Operations.** A Plan of Operations is necessary to establish measures that can be taken to minimize the effects of the discharge when HAB outbreaks occur, if there are violations of the Limited Threat General Order receiving water limitations, or violations of the Thermal Plan provisions. For example, the Plan of Operations is needed for when HAB concentrations at the monitoring locations in Attachment A are at or above the “Caution (Tier 1)” levels in Table 1 above and when there is an exceedance of a water quality objective in the Thermal Plan, specifically, when the temperature of the discharge exceeds 4° Fahrenheit above the ambient receiving water temperature and when the temperature of the discharge exceeds 86° Fahrenheit.
9. **Additional Water Quality Monitoring.** This Order includes a Monitoring and Reporting Program (MRP) as Attachment A that requires monitoring and reporting, in addition to the monitoring and reporting in the NOA, to evaluate HABs, track compliance with CSLC Lease Amendment temperature requirements, evaluate/verify the 2016 temperature modeling conclusions, and assess compliance with the Thermal Plan.
10. **Delegated Authority.** This Order is issued under authority delegated to the Central Valley Water Board’s Executive Officer pursuant to Resolution R5-2018-0057 and Water Code section 13223.

IT IS HEREBY ORDERED that, pursuant to Water Code section 13383, the Discharger shall comply with the following monitoring and reporting requirements set forth below:

- I. **Plan of Operations.** The Discharger shall submit a Plan of Operations that includes actions that can be taken to minimize the effects of the discharge on the receiving water when HAB outbreaks occur, (e.g., cyanotoxin concentrations exceed action levels shown on Table 1, above), violations of the Thermal Plan provisions (e.g., the temperature of the discharge exceeds 4° Fahrenheit above the ambient receiving water temperature or the temperature of the discharge exceeds 86° Fahrenheit), and/or the discharge violates an effluent limitation or receiving water limitation required in the NOA. The Plan of Operations shall be submitted to the Central Valley Water Board by **31 January 2021**.
- II. **Monitoring and Reporting Program.** The Discharger shall comply with monitoring and reporting requirements set forth in Attachment A.
- III. **Effective Date.** This Order is effective immediately and remains in effect until rescinded by the Executive Officer.
- IV. **Right to Petition.** Persons aggrieved by this Central Valley Water Board action may petition the State Water Board for review in accordance with Water Code section 13320, and California Code of Regulations, title 23, section 2050 et seq. The State Water Board must receive the petition by 5pm on the 30th day after the date of this Order, except that if the 30th day falls on a Saturday, Sunday or State holiday, in which case the petition must be received by the State Water Board by 5pm on the next business day. Laws and regulations applicable to filing petitions are available online at the

following [website](#):

(http://www.waterboards.ca.gov/public_notices/petitions/water_quality). Copies will also be provided upon request.

Patrick Pulupa
Executive Officer

Date Signed

Attachment:

Attachment A – Monitoring and Reporting Program

cc: Kari Holmes, Central Valley Water Board, Rancho Cordova (via email only)
Katie Chamberlin, Anchor QEA, LLC, San Francisco (via email only)
Michael MacWilliams, Anchor QEA, LLC, San Francisco (via email only)
Robert Brian Bugsch, State Lands Commission, Sacramento (via email only)
Tracie Glaves, San Joaquin Delta Neighborhood Watch (via email only)

Attachment A – Monitoring and Reporting Program

I. GENERAL MONITORING PROVISIONS

- A.** All samples shall be taken at the monitoring locations specified below. Monitoring locations shall not be changed without notification to and the approval of the Central Valley Water Board.
- B.** Final effluent samples shall be taken downstream of the discharge works where a representative sample may be obtained prior to mixing with the receiving waters. Samples shall be collected at such a point and in such a manner to ensure a representative sample of the discharge.
- C.** Analyses of any material required by this Order or the NOA shall be conducted by a laboratory accredited for such analyses by the State Water Resources Control Board (State Water Board), Division of Drinking Water (DDW), in accordance with the provision of Water Code section 13176. Laboratories that perform sample analyses must be identified in all monitoring reports submitted to the Central Valley Water Board. Data generated from field measurements such as dissolved oxygen, turbidity, and temperature are exempt pursuant to Water Code Section 13176. A manual containing the steps followed in this program for any field measurements such as dissolved oxygen, turbidity, and temperature must be kept onsite in the facility laboratory and shall be available for inspection by Central Valley Water Board staff. The Discharger must demonstrate sufficient capability (qualified and trained employees, properly calibrated and maintained field instruments, etc.) to adequately perform these field measurements. The Quality Assurance-Quality Control Program must conform to U.S. EPA guidelines or to procedures approved by the Central Valley Water Board.
- D.** All monitoring instruments and devices used by the Discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary, at least yearly, to ensure their continued accuracy. All measurement devices shall be calibrated at least once per year to ensure continued accuracy of the devices.
- E.** Monitoring results, including noncompliance, shall be reported at intervals and in a manner specified in this Order.
- F.** Laboratory analytical methods shall be sufficiently sensitive in accordance with the Sufficiently Sensitive Methods Rule (SSM Rule) specified under 40 C.F.R. 122.21(e)(3) and 122.44(i)(1)(iv). A U.S. EPA-approved analytical method is sufficiently sensitive for pollutant/parameter where:
- The method minimum level (ML) is at or below the applicable water quality objective for the receiving water, or;
 - The method ML is above the applicable water quality objective for the receiving water but the amount of the pollutant/parameter in the discharge is high enough that the method detects and quantifies the level of the pollutant/parameter, or;
 - The method ML is above the applicable water quality objective for the receiving water, but the ML is the lowest of the 40 C.F.R. 136 U.S. EPA-approved analytical methods for the pollutant/parameter.
- G.** The Discharger shall file with the Central Valley Water Board technical reports on self-monitoring performed according to the detailed specifications contained in this Order.
- H.** The results of all monitoring required by this Order shall be reported to the Central

Valley Water Board and shall be submitted in such a format as to allow direct comparison with the limitations and requirements of the NOA and this Order.

II. MONITORING LOCATIONS

The Discharger shall establish the monitoring locations listed in Table A-1 to demonstrate compliance with the effluent limitations, discharge specifications, and other requirements in the NOA and this Order. The approximate locations identified in Table A-1 below include the latitude and longitude for the required monitoring stations.

Table A-1. Monitoring Locations

| Station ID | Monitoring Location Description |
|-------------------|---|
| INF-001 | At, or adjacent to, influent piping before San Joaquin River water enters cooling system. Approximate Location 37.96497, -121.3683 |
| EFF-001 | At, or adjacent to, effluent piping where representative sample of effluent can be taken prior to discharging to the San Joaquin River. Approximate Location 37.96547, -121.3689 |
| RSW-001 | Located 500 feet downstream from EFF-001. Approximate Location 37.967, -121.370 |
| RSW-002 | Located at the SJC continuous monitoring station operated by the Department of Water Resources (DWR). Approximate Location 37.982, -121.386 |
| ALG-001 | Located at confluence of Stockton Deep Water Channel and San Joaquin River. Approximate Location 37.95, -121.336 |
| ALG-002 | Located at the San Joaquin River at Louis Park station sampled by Central Valley Water Board. Approximate Location 37.956, -121.347 |
| ALG-003 | Located at the RRI continuous monitoring station operated by DWR. Approximate Location 37.963, -121.365 |
| ALG-004 | Located 250 feet downstream of EFF-001. Approximate Location 37.9661, -121.3692 |
| ALG-005 | Located at the San Joaquin River at Buckley Cove station sampled by Central Valley Water Board. Approximate Location 37.972, -121.374 |
| ALG-006 | Located 3 miles downstream of EFF-001. Approximate Location 37.991, -121.407 |

III. INFLUENT MONITORING REQUIREMENTS

A. Monitoring Location INF-001

1. The Discharger shall monitor influent to the Facility at Monitoring Location INF-001 as specified in Table A-2 and the subsequent testing requirements below:

Table A-2. Influent Monitoring

| Parameter | Units | Sample Type | Sampling Frequency |
|-------------|-------|-------------|--------------------|
| Temperature | °F | Meter | Continuous |

2. Table A-2 Testing Requirements. The Discharger shall comply with the following testing requirements when monitoring for the parameters described in Table A-2:
 - a. **Temperature.** Influent temperature shall be measured continuously and tracked as 15-minute running averages. The daily average, and highest and lowest 15-minute averages each day shall be reported. The raw data shall be available upon request by Central Valley Water Board staff.

IV. EFFLUENT MONITORING REQUIREMENTS

A. Monitoring Location EFF-001

1. The Discharger shall monitor the discharge at Monitoring Location EFF-001 as specified in Table A-3 and the subsequent testing requirements. If there was no discharge to receiving water during the designated monitoring period, monitoring is not required for that period. If there was no discharge, the Discharger shall so state in the self-monitoring report (SMR).

Table A-3. Effluent Monitoring

| Parameter | Units | Sample Type | Sampling Frequency |
|-------------|-------|-------------|--------------------|
| Temperature | °F | Meter | Continuous |

2. Table A-3 Testing Requirements. The Discharger shall comply with the following testing requirements when monitoring for the parameters described in Table A-3:
 - a. **Temperature.** Effluent temperature shall be measured continuously and tracked as 15-minute running averages. The daily average, and highest and lowest 15-minute averages each day shall be reported. The raw data shall be available upon request by Central Valley Water Board staff.

V. RECEIVING WATER MONITORING REQUIREMENTS

A. Monitoring Locations RSW-001, RSW-002, ALG-001, ALG-002, ALG-003, ALG-004, ALG-005, and ALG-006

1. The Discharger shall monitor at Monitoring Locations RSW-001, RSW-002, ALG-001, ALG-002, ALG-003, ALG-004, ALG-005, and ALG-006 as specified in Table A-4 and the subsequent testing requirements. If there was no discharge to receiving water during the designated monitoring period, monitoring is not required for that period. If there was no discharge, the Discharger shall so state in the SMR.

Table A-4. Receiving Water Monitoring

| Parameter | Units | Sample Type | Monitoring Location | Sampling Frequency |
|-------------|-------|-------------|--|--------------------|
| Temperature | °F | Grab | RSW-001, ALG-001, ALG-002, ALG-004, ALG-005, ALG-006 | 1/Week, see Note d |

| Parameter | Units | Sample Type | Monitoring Location | Sampling Frequency |
|---------------------|-------|---------------|---|----------------------|
| Temperature | °F | Meter | RSW-002, ALG-003 | Continuous Note a |
| Turbidity | NTU | Grab | ALG-001, ALG-002, ALG-004, ALG-005, ALG-006 | See Note c |
| Dissolved Oxygen | mg/L | Grab | ALG-001, ALG-002, ALG-004, ALG-005, ALG-006 | See Note c |
| Total Microcystins | µg/L | Notes b and h | ALG-001, ALG-002, ALG-004, ALG-005, ALG-006 | See Note c |
| Anatoxin-a | µg/L | Notes b and h | ALG-001, ALG-002, ALG-004, ALG-005, ALG-006 | See Note c |
| Saxitoxin | µg/L | Notes b and h | ALG-001, ALG-002, ALG-004, ALG-005, ALG-006 | See Note c |
| Total Chlorophyll a | µg/L | Notes b and h | ALG-001, ALG-002, ALG-004, ALG-005, ALG-006 | See Note c |

2. Table A-4 Testing Requirements. The Discharger shall comply with the following testing requirements when monitoring for the parameters described in Table A-4:
- a. Physical sampling for temperature is not required at DWR Station RRI (ALG-003) or DWR Station SJC (RSW-002). The Discharger shall report data from the California Data Exchange Center (CDEC) database, if available.
 - b. **Total Microcystins, Anatoxin-a, Total Chlorophyll a, and Saxitoxin.** Per the recommendations in the Surface Water Ambient Monitoring Program (SWAMP) Standard Operating Procedures - Water Sample Collection for Toxin Analysis (SWAMP 2017), collection of a “surface water grab” is required and an additional sample type shall be collected to characterize the greatest risk of exposure when the following is observed:
 - i. If visible scum is observed, then a surface scum sample shall be collected;
 - ii. If visible detached or attached algal mats are observed then an algal mat sample shall be collected and;
 - iii. If monitoring an open water area, then a depth integrated sample shall be collected.

The Discharger shall provide rationale for the sample type in the cover letter. Samples shall be analyzed using the measure of total fraction of toxins which includes free toxins in dissolved water and any toxins contained within cyanobacteria cells or particulates (SWAMP 2017).

- c. **Turbidity, Dissolved Oxygen, Total Chlorophyll a, Total Microcystins, Anatoxin-1, and Saxitoxin.** Shall be analyzed 2/Month from 1 April through 31 October, 1/Month otherwise.
 - d. The Discharger may submit a temperature monitoring plan to verify the results of the 2016 temperature model. Upon the temperature monitoring plan's approval by the Executive Officer, the temperature monitoring frequency for monitoring locations RSW-001, ALG-001, ALG-002, ALG-004, ALG-005, ALG-006 would be reduced to be consistent with Note c.
 - e. A grab sample is defined as an individual discrete sample collected over a period of time not exceeding 15 minutes. It can be taken manually, using a pump, scoop, vacuum, or other suitable device.
 - f. A hand-held field meter may be used for temperature, dissolved oxygen, and turbidity, provided the meter utilizes a U.S. EPA-approved algorithm/method and is calibrated and maintained in accordance with the manufacturer's instructions. A calibration and maintenance log for each meter used for monitoring required by this Monitoring and Reporting Program shall be maintained at the Facility.
 - g. Due to the tidal nature of the receiving water, the direction of flow in the San Joaquin River shall be recorded at the time of sampling to ascertain which location is "upstream" or "downstream" of the Facility's discharge.
 - h. The Discharger has requested the use of Field Methods, such as test strips, to be used for preliminary identification of water samples that might contain cyanotoxins to determine if the samples must be analyzed using approved laboratory methods for quantifying Total Microcystins, Anatoxin-a, Saxitoxin, and Total Chlorophyll a. Upon written Executive Officer approval of a Preliminary Screening Plan, when samples do not contain cyanotoxins determined through the Field Methods per the approved Preliminary Screening Plan, further laboratory analysis of Total Microcystins, Anatoxin-a, Saxitoxin, and Total Chlorophyll a is not required.
3. When sampling the San Joaquin River at monitoring locations RSW-001, RSW-002, ALG-001, ALG-002, ALG-003, ALG-004, ALG-005, and ALG-006 per Table A-4 the Discharger shall conduct observations of the conditions in the San Joaquin River at the monitoring locations. A log shall be kept of the presence or absence of the following receiving water conditions:
- a. Floating or suspended matter;
 - b. Discoloration;
 - c. Bottom deposits;
 - d. Aquatic life;
 - e. Visible films, sheens, or coatings;
 - f. Fungi, slimes, or objectionable growths; and
 - g. Potential nuisance conditions.

Notes on receiving water conditions shall be summarized in the SMR.

VI. REPORTING REQUIREMENTS

A. Self-Monitoring Reports (SMRs)

1. All documents, including SMRs, written notifications, and documents submitted to comply with this Order, the NOA, and the Limited Threat General Order, should be submitted to the NPDES Permitting Unit and Compliance and Enforcement Unit, as shown below. Attention to Armando Martinez (Permitting) and Jon Rohrbough (Compliance and Enforcement). Mr. Martinez can be reached by phone at (916) 464-4617 and by [email](mailto:Armando.Martinez@waterboards.ca.gov) at Armando.Martinez@waterboards.ca.gov. Mr. Rohrbough can be reached at by phone at (916) 464-4822 or by [email](mailto:Jon.Rohrbough@waterboards.ca.gov) at Jon.Rohrbough@waterboards.ca.gov. We have transitioned to a paperless office, therefore, please convert all documents to a searchable Portable Document Format (pdf) and [email](mailto:centralvalleysacramento@waterboards.ca.gov) them to centralvalleysacramento@waterboards.ca.gov. Include both Mr. Martinez and Mr. Rohrbough in all SMRs submitted. Please include the following information in the email:
 - Attention: NPDES Permitting Section and Compliance and Enforcement Section;
 - Discharger: Nautilus Data Technologies;
 - Facility: Data Storage Facility;
 - County: San Joaquin County; and
 - CIWQS place ID: 846597
2. Documents that are 50 megabytes or larger must be transferred to a DVD, or flash drive and mailed to our office, attention "ECM Mailroom-NPDES". Include the attached Monitoring Report Transmittal Form as the first page of each SMR.
3. The Discharger shall report in the SMR the results for all monitoring specified in this Order under sections III through V. The Discharger shall submit SMRs including the results of all required monitoring using U.S. EPA-approved test methods or other test methods specified in this Order in the reporting frequency specified in Table A-5. SMRs are to include all new monitoring results obtained since the last SMR was submitted. If the Discharger monitors any parameter more frequently than required by this Order, the results of this monitoring shall be included in the reporting of the data submitted in the SMR.
4. The Discharger shall report in the monthly SMR whether concentrations for microcystins and/or anatoxin-a, at any Monitoring Location identified in Table A-4, are at or exceed the "Caution (Tier 1)" concentrations in Table 1 of the Order, if the temperature of the discharge exceeded 4° Fahrenheit above the ambient receiving water temperature, or if the temperature of the discharge exceeded 86° Fahrenheit, or any other violations of the Thermal Plan. The Discharger shall report how the Plan of Operations was implemented to minimize the impact of the discharge.
5. Monitoring periods and reporting for all required monitoring shall begin immediately and be completed according to the following:

Table A-5. Monitoring Periods and Reporting Schedule

| Sampling Frequency | Monitoring Period | SMR Due Date |
|---------------------------|--|--|
| Continuous | All | Submit with monthly SMR |
| 1/Week | Sunday through Saturday | Submit with monthly SMR |
| 1/Month | 1st day of calendar month through last day of calendar month | First day of second calendar month following month of sampling |
| 2/Month | 1st day of calendar month through last day of calendar month | First day of second calendar month following month of sampling |

6. The Discharger shall submit SMRs in accordance with the following requirements:
 - a. The Discharger shall arrange all reported data in a tabular format. The data shall be summarized to clearly illustrate whether the facility is operating in compliance with interim and/or final effluent limitations.
 - b. The Discharger shall attach a cover letter to the SMR. The information contained in the cover letter shall clearly identify violations of the waste discharge requirements; discuss corrective actions taken or planned; and the proposed time schedule for corrective actions. Identified violations must include a description of the requirement that was violated and a description of the violation.
 - c. The Discharger shall attach final laboratory reports for all contracted, commercial laboratories, including quality assurance/quality control information, with all its SMRs for which sample analyses were performed. Bench sheets are not required but should be available upon request by Central Valley Water Board staff.