

**STATE OF ARIZONA
AQUIFER PROTECTION PERMIT NO. P-100794
PLACE ID 1105, LTF 66014
SIGNIFICANT AMENDMENT**

1.0 AUTHORIZATION

In compliance with the provisions of Arizona Revised Statutes (A.R.S.) Title 49, Chapter 2, Articles 1, 2 and 3, Arizona Administrative Code (A.A.C.) Title 18, Chapter 9, Articles 1 and 2, A. A. C. Title 18, Chapter 11, Article 4 and amendments thereto, and the conditions set forth in this permit, the Arizona Department of Environmental Quality (ADEQ) hereby authorizes the U.S. Army Garrison Yuma, to operate the U.S. Army Garrison Yuma – Kofa Firing Range Sewage Lagoons, located near Yuma, Arizona, in Yuma County, over groundwater of the Lower Gila basin, in Township 07 S, Range 20 W, Section 06, N½ of the Gila and Salt River Baseline and Meridian.

This permit becomes effective on the date of the Water Quality Division Director's signature and shall be valid for the life of the facility (operational, closure, and post-closure periods) unless suspended or revoked pursuant to A.A.C. R18-9-A213. The permittee shall construct, operate and maintain the permitted facilities:

1. Following all the conditions of this permit including the design and operational information documented or referenced below, and
2. Such that Aquifer Water Quality Standards (AWQS) are not violated at the applicable point(s) of compliance (POC) set forth below or if an AWQS for a pollutant has been exceeded in an aquifer at the time of permit issuance, that no additional degradation of the aquifer relative to that pollutant and as determined at the applicable POC occurs as a result of the discharge from the facility.

1.1 PERMITTEE INFORMATION

Facility Name: U.S. Army Garrison Yuma – Kofa Firing Range Sewage Lagoons
Facility Address: U.S. Army Garrison Yuma
IMYM-PWE
301 C. Street
Yuma, AZ 85365-9498
County: Yuma
Permittee: U.S. Army Garrison Yuma
Permittee Address: IMYM-PWE
301 C. Street
Yuma, AZ 85365-9498
Annual Registration Fee Flow Rate: 29,250 gallons per day (gpd)
Facility Contact: Donnett Brown
Emergency Phone No.: (928) 328-2754
Latitude/Longitude: 32° 51 '02" N/114° 21' 10" W
Legal Description: Township 07 S, Range 20 W, Section 06, N½ of the Gila and Salt River Baseline and Meridian.

1.2 AUTHORIZING SIGNATURE

Trevor Baggiore, Director, Water Quality Division
Arizona Department of Environmental Quality

Signed this _____ day of _____, 2020

THIS AMENDED PERMIT SUPERCEDES ALL PREVIOUS PERMITS

2.0 SPECIFIC CONDITIONS [A.R.S. §§ 49-203(4), 49-241(A)]

2.1 Facility / Site Description [A.R.S. § 49-243(K)(8)]

The permittee is authorized to operate a Secondary Wastewater Treatment Facility (WWTF) with the capacity to treat an annual average of 29,250 gallons per day (gpd) of domestic sewage including an industrial component consisting of small amounts of water from air conditioners, evaporative coolers and treated vehicle wash down water.

Existing WWTF

The existing facility consists of two (2) lined facultative and two (2) evaporation sewage lagoons (the lagoon system) and treats an annual average of 19,500 gallons per day (gpd) of domestic sewage including small amounts of water from air conditioners, evaporative coolers and treated vehicle wash down water. The facultative / evaporation sewage lagoons are lined with a 60-mil high density polyethylene (HDPE) liner with approximately eighteen inches of compacted soil on top of the liner to protect the liner during sludge removal. The synthetic material attains a permeability of 1×10^{-7} cm/sec or slower.

Upgraded WWTF

The WWTF may increase the design flows to 29,250 gpd upon completing upgrades at the plant and submitting the Engineer’s Certificate of Completion (ECOC) per Section 3.0, Compliance Schedule, Items 3.1 and 3.2. The treatment process consists of the existing two (2) lined facultative and two (2) evaporation sewage lagoons (the lagoon system) and one additional facultative lagoon and one evaporation sewage lagoon.

The new facultative and evaporation sewage lagoons shall be constructed with two (2) Linear Low Density PolyEthylene-Reinforced (LLDPE-R) liners with a leak detection and control systems installed beneath the new lagoons. Approximately eighteen inches of compacted soil will be placed on top of the liner to protect the liner during sludge removal. Effluent shall be disposed of by evaporation.

The depth to groundwater at the KFR lagoons is approximately 175 feet below ground surface (bgs). Groundwater flow is generally to the southwest toward the Colorado River.

Permit Amendment

ADEQ has reviewed and approved this amendment to add one additional facultative lagoon and one additional evaporation lagoon with leak detection and control systems to the existing sewage treatment facility. The upgrades will increase the treatment capability of the facility from 19,500 gpd to 29,250 gpd, and increase the closure cost from \$100,000.00 to \$203,000.00.

The site includes the following permitted discharging facilities:

Discharging Facility	Latitude	Longitude
Facultative Ponds		
Facultative Pond 1	32° 51' 07.94" N	114° 21' 12.76" W
Facultative Pond 2	32° 51' 06.87" N	114° 21' 10.64" W
Facultative Pond 3	32° 51' 05.98" N	114° 21' 08.79" W
Evaporation Ponds		
Evaporation Pond 1	32° 51' 05.66" N	114° 21' 14.17" W
Evaporation Pond 2	32° 51' 04.71" N	114° 21' 12.17" W
Evaporation Pond 3	32° 51' 03.78" N	114° 21' 10.24" W

Annual Registration Fee [A.R.S. § 49-242 and A.A.C. R18-14-104]

The annual registration fee for this permit is payable to ADEQ each year. The permitted flow for fee calculation is 29,250 gallons per day (gpd).

Financial Capability [A.R.S. § 49-243(N) and A.A.C. R18-9-A203]

The permittee has demonstrated financial capability under A.R.S. § 49-243(N) and A.A.C. R18-9-A203. The Groundwater Protection Value Stream approved the closure costs of \$203,000.00. The financial capability was demonstrated through A.A.C. R18-9-A203(B)(1) and (2).

2.2 Best Available Demonstrated Control Technology (BADCT)

[A.R.S. § 49-243(B) and A.A.C. R18-9-A202(A)(5)]

The facility shall be designed, constructed, operated, and maintained to meet the treatment performance criteria for existing facilities as specified in Arizona Administrative Code R18-9-B205.

All industrial hookups and other non-residential hookups to the treatment system shall be authorized according to the applicable federal, state or local regulations.

2.2.1 Engineering Design

The new facultative and evaporation sewage lagoons were designed as per the design report prepared, signed and dated (sealed) by MWH Americas, Inc, dated 2010.

The facility was designed and constructed according to plans approved by the ADEQ APP & Reuse Unit.

2.2.1.1 Engineering Design New Facultative and Evaporation Sewage Lagoons

The evaporation ponds are constructed in accordance with ADEQ approved plans containing the following design:

2.2.1.1.1 The subgrade consists of six inches of $\frac{3}{4}$ minus bedding compacted to 95 percent of maximum dry density according to the Standard Proctor Test.

2.2.1.1.2 The liner system of the new ponds consists of two (2) Linear Low Density PolyEthylene-Reinforced (LLDPE-R) liners. The lower liner is a 40 mil LLDPE-R liner with a 40 mil LLDPE-R upper liner that is covered with eight to four inches of concrete to provide protection for the liner during sludge removal. A Leakage Collection and Removal System (LCRS) will be installed to collect any leaks.

2.2.1.1.3 The LCRS consists of a 0.2-inch drainage geonet, a perforated collection pipe and a collection sump. The drainage layer shall be placed at a minimum 0.5 % slope to the collection sump and shall achieve a hydraulic conductivity of 1×10^{-2} cm/sec or greater. Solution from the LCRS will be directed to the collection sump for extraction and leakage monitoring.

2.2.1.1.4 Each collection sump will be frequently monitored and when fluid is present, a pump will be installed that is sufficiently sized to evacuate fluids from the sump. Solution evacuated from the sump will be returned to the pond(s). A flow meter will be used to quantify volumes of fluid evacuated.

2.2.1.1.5 All materials used in the construction of the lagoons are compatible with the solutions discharged into them.

2.2.2 Site-specific Characteristics

Not Applicable.

2.2.3 Pre-operational Requirements

Prior to initiating the facultative and evaporation sewage lagoons, the permittee shall submit a construction report along with sealed as-built drawings for the facultative and evaporation lagoons along with QA/QC documentation to confirm that the two ponds were constructed in accordance with the design report, engineering plans and specifications per the Section 3.0, Compliance Schedule #1 and #2.

2.2.4 Operational Requirements

1. The permittee shall maintain a copy of the up-to-date operations and maintenance manual at the treatment facility site at all times; the manual shall be available upon request during inspections by ADEQ personnel.
2. The pollution control structures shall be inspected for the items listed in Section 4.2, Table III Facility Inspection (Operational Monitoring).
3. If any damage of the pollution control structures is identified during inspection, proper repair procedures shall be performed. All repair procedures and materials used shall be documented in the facility log book as per Section 2.7.2 and reported to ADEQ in the event of a violation or exceedance as per Section 2.7.3.

2.2.5 Reclaimed Water Classification

[A.A.C. R18-9-703(C)(2)(a), A.A.C. R18-11-303 through 307]

Not Required.

2.2.6 Certified Area-wide Water Quality Management Plan Conformance

[A.A.C. R18-9-A201(B)(6)(a)]

Facility operations must conform to the approved Certified Area-wide Water Quality Management Plan according to the 208 consistency determination in place at the time of permit issuance.

2.3 Discharge Limitations [A.R.S. §§ 49-201(14), 49-243 and A.A.C. R18-9-A205 (B)]

1. The permittee is authorized to operate the WWTF with a maximum average annual flow of 0.02925 mgd.
2. The permittee shall operate and maintain all permitted facilities to prevent unauthorized discharges pursuant to A.R.S. § 49-201(12) resulting from failure or bypassing of applicable BADCT.
3. Specific discharge limitations are listed in Section 4.2, Tables IA-1 or IA-2.

2.4 Point of Compliance (POC) [A.R.S. § 49-244]

The non-hazardous Points of Compliance (POC) have been established at the following locations:

POC #	POC Location	Latitude	Longitude
POC # 1 (Conceptual)	Adjacent to the Sewage Lagoons – Northeast Side	32° 51' 03" N	114° 21' 10" W
POC # 2 (Conceptual)	Adjacent to the Sewage Lagoons – Southwest Side	32° 51' 3.94"N	114° 21' 18.66"W

The POC is conceptual; groundwater monitoring is not required at the POCs at permit issuance. The Director may designate additional points of compliance if information on groundwater gradients or groundwater usage indicates the need.

2.5 Monitoring Requirements [A.R.S. § 49-243(K)(1), A.A.C. R18-9-A206(A)]

Unless otherwise specified in this permit, all monitoring required in this permit shall continue for the duration of the permit, regardless of the status of the facility. Unless otherwise provided, monitoring shall commence the first full monitoring period following permit issuance. All sampling, preservation and holding times shall be in accordance with currently accepted standards of professional practice. Trip blanks, equipment blanks and duplicate samples shall also be obtained, and Chain-of-Custody procedures shall be followed, in accordance with currently accepted standards of professional practice. Copies of laboratory analyses and Chain-of-Custody forms shall be maintained at the permitted facility. Upon request, these documents shall be made immediately available for review by ADEQ personnel.

2.5.1 Pre-Operational Monitoring

Not required under the terms of this permit.

2.5.2 Discharge Monitoring

Routine Discharge Monitoring shall include the Discharge Rate of influent flows and representative samples of the wastewater be collected at the point of discharge to the sewage lagoons per Section 4.2, Tables IA-1 or IA-2.

2.5.3 Facility / Operational Monitoring

At a minimum, permitted facilities shall be inspected for performance levels listed in Section 4.2, Table III. If damage is identified during an inspection that could cause or contribute to an unauthorized discharge pursuant to A.R.S. § 49-201(12), proper repairs shall be promptly performed. Results of these inspections and monitoring activities shall be documented and maintained at the facility location for at least 10 years, and as required by Section 2.7.2 of this permit.

2.5.4 Groundwater Monitoring and Sampling Protocols

Groundwater monitoring is not required under the terms of this permit.

2.5.5 Surface Water Monitoring and Sampling Protocols

Routine surface water monitoring is not required under the terms of this permit.

2.5.6 Analytical Methodology

All samples collected for compliance monitoring shall be analyzed using Arizona state-approved methods. If no state-approved method exists, then any appropriate EPA-approved method shall be used. Regardless of the method used, the detection limits must be sufficient to determine compliance with the regulatory limits of the parameters specified in this permit. If all methods have detection limits higher than the applicable limit, the permittee shall follow the applicable contingency requirements of Section 2.6 and may propose "other actions" including amending the permit to set higher limits. Analyses shall be performed by a laboratory licensed by the Arizona Department of Health Services, Office of Laboratory Licensure and Certification unless exempted under A.R.S. § 36-495.02. For results to be considered valid, all analytical work shall meet quality control standards specified in the approved methods. A list of Arizona state-certified laboratories can be obtained at the address below:

Arizona Department of Health Services
Office of Laboratory Licensure and Certification
250 North 17th Avenue
Phoenix, Arizona 85007
Phone: (602) 364-0720

2.5.7 Installation and Maintenance of Monitoring Equipment

Monitoring equipment required by this permit shall be installed and maintained so that representative samples required by the permit can be collected. If new groundwater wells are determined to be necessary, the construction details shall be submitted to the Groundwater Protection Value Stream for approval prior to installation and the permit shall be amended to include any new monitoring points.

2.6 Contingency Plan Requirements

[A.R.S. § 49-243(K)(3), (K)(7) and A.A.C. R18-9-A204 and R18-9-A205]

2.6.1 General Contingency Plan Requirements

At least one copy of this permit and the approved contingency and emergency response plan submitted in attachment C, of this amendment application received on November 2019 and shall be maintained at the location where day-to-day decisions regarding the operation of the facility are made. The permittee shall be aware of and follow the contingency and emergency plan.

Any AL exceedance, or violation of an AQL, DL, or other permit condition shall be reported to ADEQ following the reporting requirements in Section 2.7.3, unless more specific reporting requirements are set forth in Section 2.6.2 through 2.6.5 below.

Some contingency actions involve verification sampling. Verification sampling shall consist of the first follow-up sample collected from a location that previously indicated a violation or the exceedance of an AL. Collection and analysis of the verification sample shall use the same protocols and test methods to analyze for the pollutant or pollutants that exceeded an AL or violated an AQL or DL. The permittee is subject to enforcement action for the failure to comply with any contingency actions in this permit. Where verification sampling is specified in this permit, it is the option of the permittee to perform such sampling. If verification sampling is not conducted within the timeframe allotted, ADEQ and the permittee shall presume the initial sampling result to be confirmed as if verification sampling had been conducted. The permittee is responsible for compliance with contingency plans relating to the exceedance of an AL or violation of a DL, AQL or any other permit condition.

2.6.2 Exceeding of Alert Levels and Performance Levels

2.6.2.1 Exceeding of Performance Levels Set for Operational Conditions

1. For freeboard operational performance levels, the permittee shall comply with the requirements as specified in Section 4.2, Table III (Facility Inspections) to prevent the overtopping of an impoundment or sludge drying bed. If an impoundment or sludge drying bed is overtopped, the permittee shall follow the requirements in Section 2.6.5.3 and the reporting requirements of Section 2.7.3.
2. If another operational performance level set in Section 4.2, Table III has been exceeded, the permittee shall:
 - a. Notify the Groundwater Protection Value Stream within five days of becoming aware of the exceedance.
 - b. Submit a written report within 30 days after becoming aware of the exceedance. The report shall document all of the following:
 - (1) A description of the exceedance and its cause;
 - (2) the period of the exceedance, including exact date(s) and time(s), if known, and the anticipated time period during which the exceedance is expected to continue;
 - (3) any action taken or planned to mitigate the effects of the exceedance or spill, or to eliminate or prevent recurrence of the exceedance or spill;
 - (4) any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an AWQS; and
 - (5) any malfunction or failure of pollution control devices or other equipment or process.
3. The facility is no longer on alert status once the operational indicator no longer indicates

that the performance level is being exceeded. The permittee shall, however, complete all tasks necessary to return the facility to its pre-alert operating condition.

2.6.2.2 Exceeding of Alert Levels (ALs) Set for Discharge Monitoring

1. If an AL set in Section 4.2, Tables IA-1 or IA-2 has been exceeded, the permittee shall immediately investigate to determine the cause. The investigation shall include the following:
 - a. Inspection, testing, and assessment of the current condition of all treatment or pollutant discharge control systems that may have contributed to the exceedance;
 - b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences; and
 - c. If the investigation procedures indicated in (a) and (b) above fail to reveal the cause of the exceedance, the permittee shall sample individual waste streams composing the wastewater for the parameters in question, if necessary to identify the cause of the exceedance.
2. The permittee shall initiate actions identified in the approved contingency plan referenced in Section 5.0 and specific contingency measures identified in Section 2.6 to resolve any problems identified by the investigation which may have led to an AL exceedance. To implement any other corrective action the permittee shall obtain prior approval from ADEQ according to Section 2.6.6.
3. Within 30 days after an AL exceedance, the permittee shall submit the laboratory results to the Groundwater Protection Value Stream, along with a summary of the findings of the investigation, the cause of the exceedance, and actions taken to resolve the problem.
4. Upon review of the submitted report, the Department may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions or other actions.

2.6.2.2.1. Exceeding Permit Flow Limit

1. If the AL for average monthly flow in Section 4.2, Tables IA-1 or IA-2 has been exceeded, the permittee shall submit an application for an APP amendment to expand the treatment facility or submit a report detailing the reasons that expansion is not necessary.
2. Acceptance of the report instead of an application for expansion requires ADEQ approval.

2.6.2.3 Exceeding of Alert Levels Set for the Leak Collection and Removal System

2.6.2.3.1. Alert Level 1 (AL1) Set for Leakage Rate in Leak Collection and Removal System (LCRS)

If the AL1 for the leakage rate in the Wastewater Collection sump specified in Section 4.2, Table IB has been exceeded, the permittee shall:

- a. Increase monitoring in sump to daily until rate is below AL1.
- b. Assess the cause of excess fluid in the sump through testing or a liner evaluation as necessary to correct the exceedances such that the daily rate of fluid collected in the sump is below AL1.
- c. Within 5 days of discovery, notify Groundwater Protection Value Stream in accordance with Section 2.7.3 (Permit Violation and AL Status Reporting).

- d. Within 30 days of discovery, submit a written report documenting the steps taken to correct the AL exceedance (if any were necessary) to the ADEQ Groundwater Value Stream according to Section 2.7.3(2).

2.6.2.2.2. Alert Level 2 (AL2) Set for Set for Leakage Rate in Leak Collection and Removal System (LCRS)

If the AL2 for the leakage rate in the Wastewater Collection sump specified in Section 4.2, Table I-B has been exceeded, the permittee shall:

- a. Within 5 days of discovery, notify Groundwater Protection Value Stream in accordance with Section 2.7.3 (Permit Violation and AL Status Reporting).
- b. Within 10 days of discovery, collect a sump sample for analysis to compare with waste characterization for the Pond to determine if water in sump is due to liner leakage.
- c. Immediately cease or reduce discharge to the pond, whichever is necessary to correct the exceedance.
- d. Within 15 days of discovery, assess the condition of the liner system using visual methods, electrical leak detection, or other methods as applicable.
- e. Within 30 days of exceeding the AL2, submit a report to ADEQ's Groundwater Protection Value Stream as specified in Section 2.7.3 (Permit Violation and AL Status Reporting). The report shall address problems identified from the assessment of the liner system, source of the fluid, and any other actions taken to minimize the future occurrences. The report shall include the results of the liner evaluation, methods used to locate the leak, the repair procedures implemented to restore the liner to optimal operational status, and other information necessary to ensure that future occurrence of the incidence will be minimized. ADEQ may request additional action if necessary to address problems identified from the assessment of the liner system and other applicable repair procedures.
- f. Within 30 days of exceeding the AL2, submit for approval to ADEQ's Groundwater Protection Value Stream, a corrective action plan to address problems identified from the assessment of the liner system if problems are not corrected in Item (e) above. At the direction of ADEQ, the permittee shall implement the approved plan.
- g. Within 30 days of completion of corrective actions and no later than 90 days after receiving approval to implement the corrective action plan, submit to ADEQ's Groundwater Protection Value Stream, a written report as specified in Section 2.6.6 (Corrective Actions).
- h. The facility is no longer on alert status once the operational indicator no longer indicates that the AL2 is being exceeded. The permittee shall, however, complete all tasks necessary to return the facility to its pre-alert operating condition.

2.6.3 Discharge Limit Violation

1. If a DL set in Section 4.2, Tables IA-1 or IA-2 has been violated, the permittee shall immediately investigate to determine the cause of the violation. The investigation shall include the following:
 - a. Inspection, testing, and assessment of the current condition of all treatment or pollutant discharge control systems that may have contributed to the violation;
 - b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences;
 - c. If the investigation procedures indicated in (a) and (b) above fail to reveal the cause of the violation, the permittee shall sample individual waste streams composing the wastewater for the parameters in violation, as necessary to identify the cause of the violation.

The permittee also shall submit a report according to Section 2.7.3, which includes a summary of the findings of the investigation, the cause of the violation, and actions taken to resolve the problem. The permittee shall consider and ADEQ may require corrective action that may include control of the source of discharge, cleanup of affected soil, surface water or

groundwater, notification of downstream or downgradient users who may be directly affected by the violation, and mitigation of the impact of pollutants on existing uses of the aquifer. Corrective actions shall either be specifically identified in this permit, included in an ADEQ-approved contingency plan, or separately approved according to Section 2.6.6.

2. Upon review of the submitted report, the Department may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions, or other actions.

2.6.4 Aquifer Quality Limit Violation

Not applicable - Groundwater monitoring is not required under this permit.

2.6.5 Emergency Response and Contingency Requirements for Unauthorized Discharges pursuant to A.R.S. § 49-201(12) and pursuant to A.R.S. § 49-241

2.6.5.1 Duty to Respond

The permittee shall act immediately to correct any condition resulting from a discharge pursuant to A.R.S. § 49-201(12) if that condition could pose an imminent and substantial endangerment to public health or the environment.

2.6.5.2 Discharge of Hazardous Substances or Toxic Pollutants

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of suspected hazardous substances (A.R.S. § 49-201(19)) or toxic pollutants (A.R.S. § 49-243(I)) on the facility site, the permittee shall promptly isolate the area and attempt to identify the discharged material. The permittee shall record information, including name, nature of exposure and follow-up medical treatment, if necessary, on persons who may have been exposed during the incident. The permittee shall notify the Groundwater Protection Value Stream within 24 hours of discovering the discharge of hazardous material which (a) has the potential to cause an AWQS or AQL exceedance, or (b) could pose an endangerment to public health or the environment.

2.6.5.3 Discharge of Non-hazardous Materials

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of non-hazardous materials from the facility, the permittee shall promptly attempt to cease the discharge and isolate the discharged material. Discharged material shall be removed and the site cleaned up as soon as possible. The permittee shall notify the Groundwater Protection Value Stream within 24 hours of discovering the discharge of non-hazardous material which has the potential to cause an AQL exceedance or could pose an endangerment to public health or the environment.

2.6.5.4 Reporting Requirements

The permittee shall submit a written report for any unauthorized discharges reported under Sections 2.6.5.2 and 2.6.5.3 to the Groundwater Protection Value Stream within 30 days of the discharge or as required by subsequent ADEQ action. The report shall summarize the event, including any human exposure, and facility response activities and include all information specified in Section 2.7.3. If a notice is issued by ADEQ subsequent to the discharge notification, any additional information requested in the notice shall also be submitted within the time frame specified in the notice. Upon review of the submitted report, ADEQ may require additional monitoring or corrective actions.

2.6.6 Corrective Actions

Specific contingency measures identified in Section 2.6 have already been approved by ADEQ and do not require written approval to implement.

With the exception of emergency response actions taken under Section 2.6.5, the permittee shall obtain written approval from the Groundwater Protection Value Stream prior to implementing a

corrective action to accomplish any of the following goals in response to exceedance of an AL or violation of an AQL, DL, or other permit condition:

1. Control of the source of an unauthorized discharge;
2. Soil cleanup;
3. Cleanup of affected surface waters;
4. Cleanup of affected parts of the aquifer;
5. Mitigation to limit the impact of pollutants on existing uses of the aquifer.

Within 30 days of completion of any corrective action, the operator shall submit to the Groundwater Protection Value Stream, a written report describing the causes, impacts, and actions taken to resolve the problem.

2.7 Reporting and Recordkeeping Requirements

[A.R.S. § 49-243(K)(2) and A.A.C. R18-9-A206(B) and R18-9-A207]

2.7.1 Self-Monitoring Report Form

1. The permittee shall complete the Self-Monitoring Reporting Forms (SMRFs) provided by ADEQ, and submit the completed report through the myDEQ online reporting system.
2. The permittee shall complete the SMRF to the extent that the information reported may be entered on the form. If no information is required during a reporting period, the permittee shall enter “not required” on the form, include an explanation.
3. The tables contained in Section 4.2 list the monitoring parameters and the frequencies for reporting results on the SMRF:
 - Table IA-1, Routine Discharge Monitoring (up to 0.0195 mgd)
 - Table IA-2, Routine Discharge Monitoring (over 0.0195 mgd)

The parameters listed in the above-identified tables from Section 4.2 are the only parameters for which SMRF reporting is required.

2.7.2 Operation Inspection / Log Book Recordkeeping

A signed copy of this permit shall be maintained at all times at the location where day-to-day decisions regarding the operation of the facility are made. A log book (paper copies, forms, or electronic data) of the inspections and measurements required by this permit shall be maintained at the location where day-to-day decisions are made regarding the operation of the facility. The log book shall be retained for ten years from the date of each inspection, and upon request, the permit and the log book shall be made immediately available for review by ADEQ personnel. The information in the log book shall include, but not be limited to, the following information as applicable:

1. Name of inspector;
2. Date and time inspection was conducted;
3. Condition of applicable facility components;
4. Any damage or malfunction, and the date and time any repairs were performed;
5. Documentation of sampling date and time; and
6. Any other information required by this permit to be entered in the log book.
7. Monitoring records for each measurement shall comply with A.A.C. R18-9-A206(B)

2.7.3 Permit Violation and Alert Level Status Reporting

1. The permittee shall notify the Groundwater Protection Value Stream in writing within five days (except as provided in Section 2.6.5) of becoming aware of a violation of any permit condition, discharge limitation, or of an AL exceedance.

2. The permittee shall submit a written report to the Groundwater Protection Value Stream within 30 days of becoming aware of the violation of any permit condition, AQL, or DL. The report shall document all of the following:
 - a. Identification and description of the permit condition for which there has been a violation and a description of the cause;
 - b. The period of violation including exact date(s) and time(s), if known, and the anticipated time period during which the violation is expected to continue;
 - c. Any corrective action taken or planned to mitigate the effects of the violation, or to eliminate or prevent a recurrence of the violation;
 - d. Any monitoring activity or other information, which indicates that any pollutants would be reasonably expected to cause a violation of an AWQS;
 - e. Proposed changes to the monitoring which include changes in constituents or increased frequency of monitoring; and
 - f. Description of any malfunction or failure of pollution control devices or other equipment or processes.

2.7.4 Operational, Other or Miscellaneous Reporting

The permittee shall record the information requested in Section 4.2, Table III in the facility log book as per Section 2.7.2, and report to ADEQ any violations or exceedances as per Section 2.7.3.

2.7.5 Reporting Location

Through the myDEQ portal accessible on the ADEQ website at:

<http://www.azdeq.gov/welcome-mydeq>

All other documents required by this permit to be submitted to the Groundwater Protection Value Stream shall be directed to:

Arizona Department of Environmental Quality
Groundwater Protection Value Stream
Mail Code 5415B-3
1110 West Washington Street
Phoenix, Arizona 85007
Phone (602) 771-4999

2.7.6 Reporting Deadline

The following table lists the quarterly report due dates:

Monitoring conducted during quarter:	Quarterly Report due by:
January-March	April 30
April-June	July 30
July-September	October 30
October-December	January 30

2.7.7 Changes to Facility Information in Section 1.0

The Groundwater Protection Value Stream shall be notified within ten days of any change of facility information including Facility Name, Permittee Name, Mailing or Street Address, Facility Contact Person, or Emergency Telephone Number.

2.8 Temporary Cessation [A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A209(A)]

The permittee shall give written notice to the Groundwater Protection Value Stream before ceasing operation of the facility for a period of 60 days or greater. The permittee shall take the following measures upon temporary cessation:

1. If applicable, direct the wastewater flows from the facility to another state-approved wastewater treatment facility;
2. Correct the problem that caused the temporary cessation of the facility; and
3. Notify the Groundwater Protection Value Stream with a monthly facility status report describing the activities conducted on the treatment facility to correct the problem.
4. Submittal of Self-Monitoring Report Forms (SMRFs) is still required; report “temporary cessation” in the comment section.

At the time of notification, the permittee shall submit for ADEQ approval a plan for maintenance of discharge control systems and for monitoring during the period of temporary cessation. Immediately following ADEQ approval, the permittee shall implement the approved plan. If necessary, ADEQ shall amend permit conditions to incorporate conditions to address temporary cessation. During the period of temporary cessation, the permittee shall provide written notice to the Groundwater Protection Value Stream of the operational status of the facility every three years. If the permittee intends to permanently cease operation of any facility, the permittee shall submit closure notification, as set forth in Section 2.9 below.

2.9 Closure [A.R.S. §§ 49-243(K)(6), 49-252 and A.A.C. R18-9-A209(B)]

For a facility addressed under this permit, the permittee shall give written notice of closure to the Groundwater Protection Value Stream of the intent to cease operation without resuming activity for which the facility was designed or operated. Submittal of SMRFs is still required; report “closure in process” in the comment section.

2.9.1 Closure Plan

Within 90 days following notification of closure, the permittee shall submit for approval to the Groundwater Protection Value Stream, a closure plan which meets the requirements of A.R.S. § 49-252 and A.A.C. R18-9-A209(B)(3).

If the closure plan achieves clean-closure immediately, ADEQ shall issue a letter of approval to the permittee. If the closure plan contains a schedule for bringing the facility to a clean-closure configuration at a future date, ADEQ may incorporate any part of the schedule as an amendment to this permit.

2.9.2 Closure Completion

Upon completion of closure activities, the permittee shall give written notice to the Groundwater Protection Value Stream indicating that the approved closure plan has been implemented fully and providing supporting documentation to demonstrate that clean-closure has been achieved (soil sample results, verification sampling results, groundwater data, as applicable). If clean-closure has been achieved, ADEQ shall issue a letter of approval to the permittee at that time. If any of the following conditions apply, the permittee shall follow the terms of post-closure stated in this permit:

1. Clean-closure cannot be achieved at the time of closure notification or within one year thereafter under a diligent schedule of closure actions;
2. Further action is necessary to keep the facility in compliance with the AWQS at the applicable POC;
3. Continued action is required to verify that the closure design has eliminated discharge to the extent intended;
4. Remediation or mitigation measures are necessary to achieve compliance with Title 49, Ch. 2; and
5. Further action is necessary to meet property use restrictions.

2.10 Post-closure [A.R.S. §§ 49-243(K)(6), 49-252 and A.A.C. R18-9 A209(C)]

Post-closure requirements shall be established based on a review of facility closure actions and will be subject to review and approval by the Groundwater Protection Value Stream.

In the event clean-closure cannot be achieved pursuant to A.R.S. § 49-252, the permittee shall submit for approval to the Groundwater Protection Value Stream a post-closure plan that addresses post-closure maintenance and monitoring actions at the facility. The post-closure plan shall meet all requirements of A.R.S. §§ 49-201(30) and 49-252 and A.A.C. R18-9-A209(C). Upon approval of the post-closure plan, this permit shall be amended, or a new permit shall be issued to incorporate all post-closure controls and monitoring activities of the post-closure plan.

2.10.1 Post-Closure Plan

A specific post-closure plan may be required upon the review of the closure plan.

2.10.2 Post-Closure Completion

Not required at the time of permit issuance.

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3.0 COMPLIANCE SCHEDULE [A.R.S. § 49-243(K)(5) and A.A.C. R18-9-A208]

Unless otherwise indicated, for each compliance schedule item listed below, the permittee shall submit the required information to the Groundwater Protection Value Stream.

No.	Description	Due by:	Permit Amendment Required?
3.1	Permittee shall submit a construction report along with sealed as-built drawings for the Facultative Lagoon along with QA/QC documentation to confirm that the two ponds were constructed in accordance with the design report, engineering plans and specifications.	Within 30 days of completion of construction.	No
3.2	Permittee shall submit a construction report along with sealed as-built drawings for the Evaporation Lagoon along with QA/QC documentation to confirm that the two ponds were constructed in accordance with the design report, engineering plans and specifications.	Within 30 days of completion of construction.	No

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4.0 TABLES OF MONITORING REQUIREMENTS

4.1 PRE-OPERATIONAL MONITORING (OR CONSTRUCTION REQUIREMENTS)

Not applicable at permit issuance

4.2 COMPLIANCE (or OPERATIONAL) MONITORING

TABLE IA-1:	Routine Discharge Monitoring (up to 0.195 mgd)
TABLE IA-2:	Routine Discharge Monitoring (above 0.195 mgd)
TABLE IB:	Leakage Collection and Removal System Monitoring
TABLE III:	Facility Inspections Monitoring

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4.2 COMPLIANCE (or OPERATIONAL) MONITORING

TABLE IA-1
ROUTINE DISCHARGE MONITORING – Existing Facility – up to 0.195 mgd

Sampling Point Number	Sampling Point Identification			Latitude	Longitude
1	Discharge to the evaporation ponds			32° 51' 02" N	114° 21' 10" W
Parameter	AL ¹	DL ²	Units	Sampling Frequency	Reporting Frequency
Total Flow: Daily ³	Not Established ⁴	Not Established	mgd ⁵	Daily ⁶	Quarterly
Total Flow: Average Annual	Not Established	0.0195	mgd	Annually ⁷	Quarterly
Total Nitrogens: 5-sampling rolling geometric mean.	Not Established	Not Established	mg/l	Monthly ⁹	Quarterly
Nitrate-Nitrite as N	Not Established	Not Established	mg/l	Monthly	Quarterly
Total Kjeldahl Nitrogen (TKN)	Not Established	Not Established	mg/l	Monthly	Quarterly

¹AL = Alert Level

²DL = Discharge Limit

³Total flow is measured in million gallons per day (MGD)

⁴Not Established = Monitoring required but no limits have been specified at time of permit issuance.

⁵mgd = million gallons per day

⁶Flow shall be measured using a continuous recording flow meter which totals the flow daily.

⁷Annually = Calculated value = Average of daily flows in a year.

⁸Total Nitrogen = Nitrate as N + Nitrite as N + Total Kjeldahl Nitrogen.

⁹A 5-Month Geometric Mean of the results of the 5 most recent samples

4.2 COMPLIANCE (or OPERATIONAL) MONITORING

TABLE IA-1
ROUTINE DISCHARGE MONITORING (continued)

Parameter	AL	DL	Units	Sampling Frequency	Reporting Frequency
Metals (Total)¹⁰:					
Antimony	0.006	NE ¹¹	mg/l	Quarterly	Quarterly
Arsenic	0.05	NE	mg/l	Quarterly	Quarterly
Barium	2.00	NE	mg/l	Quarterly	Quarterly
Beryllium	0.004	NE	mg/l	Quarterly	Quarterly
Cadmium	0.005	NE	mg/l	Quarterly	Quarterly
Chromium	0.1	NE	mg/l	Quarterly	Quarterly
Cyanide (as free cyanide)	0.2	NE	mg/l	Quarterly	Quarterly
Fluoride	10.6	NE	mg/l	Quarterly	Quarterly
Lead	0.05	NE	mg/l	Quarterly	Quarterly
Mercury	0.002	NE	mg/l	Quarterly	Quarterly
Nickel	0.1	NE	mg/l	Quarterly	Quarterly
Selenium	0.05	NE	mg/l	Quarterly	Quarterly
Thallium	0.002	NE	mg/l	Quarterly	Quarterly

¹⁰ If four consecutive samples result in non-detect, the permittee may request reduction to yearly sampling or elimination of sampling for that constituent

¹¹ NE=Not Established = Monitoring required but no limits have been specified at time of permit issuance.

4.2 TABLES OF MONITORING REQUIREMENTS

TABLE IA-1
ROUTINE DISCHARGE MONITORING (continued)

Parameter	AL	DL	Units	Sampling Frequency	Reporting Frequency
Volatile Organic Compounds (VOCs) ¹²:					
Benzene	0.005	NE ¹³	mg/l	Semi-Annually	Semi-Annually
Carbon tetrachloride	0.005	NE	mg/l	Semi-Annually	Semi-Annually
o-Dichlorobenzene	0.6	NE	mg/l	Semi-Annually	Semi-Annually
para-Dichlorobenzene	0.075	NE	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloroethane	0.005	NE	mg/l	Semi-Annually	Semi-Annually
1,1-Dichloroethylene	0.007	NE	mg/l	Semi-Annually	Semi-Annually
cis-1,2-Dichloroethylene	0.07	NE	mg/l	Semi-Annually	Semi-Annually
trans-1,2-Dichloroethylene	0.1	NE	mg/l	Semi-Annually	Semi-Annually
Dichloromethane	0.005	NE	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloropropane	0.005	NE	mg/l	Semi-Annually	Semi-Annually
Ethylbenzene	0.7	NE	mg/l	Semi-Annually	Semi-Annually
Hexachlorobenzene	0.001	NE	mg/l	Semi-Annually	Semi-Annually
Hexachlorocyclopentadiene	0.05	NE	mg/l	Semi-Annually	Semi-Annually
Monochlorobenzene	0.1	NE	mg/l	Semi-Annually	Semi-Annually
Styrene	0.1	NE	mg/l	Semi-Annually	Semi-Annually
Tetrachloroethylene	0.005	NE	mg/l	Semi-Annually	Semi-Annually
Toluene	1.0	NE	mg/l	Semi-Annually	Semi-Annually
Trihalomethanes (total) ¹⁴	0.1	NE	mg/l	Semi-Annually	Semi-Annually
1,1,1-Trichloroethane	0.2	NE	mg/l	Semi-Annually	Semi-Annually
1,2,4 - Trichlorobenzene	0.07	NE	mg/l	Semi-Annually	Semi-Annually
1,1,2 - Trichloroethane	0.005	NE	mg/l	Semi-Annually	Semi-Annually
Trichloroethylene	0.005	NE	mg/l	Semi-Annually	Semi-Annually
Vinyl Chloride	0.002	NE	mg/l	Semi-Annually	Semi-Annually
Xylenes (Total)	10.0	NE	mg/l	Semi-Annually	Semi-Annually

¹² If four consecutive samples result in non-detect, the permittee may request reduction to yearly sampling or elimination of sampling for that constituent

¹³ NE=Not Established = Monitoring required but no limits have been specified at time of permit issuance.

¹⁴Total Trihalomethanes are comprised of Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane.

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE IA-1
ROUTINE DISCHARGE MONITORING (continued)

Parameter	AL	DL	Units	Sampling Frequency	Reporting Frequency
Other Parameters¹⁵:					
Total Organic Halogens	Reserved ¹⁶	NE ¹⁷	mg/l	Semi-Annually	Semi-Annually
Bis(2-Ethyl)phthalate	Reserved	NE	mg/l	Semi-Annually	Semi-Annually
Phenol	Reserved	NE	mg/l	Semi-Annually	Semi-Annually
4-Methylphenol	Reserved	NE	mg/l	Semi-Annually	Semi-Annually
Acetone	Reserved	NE	mg/l	Semi-Annually	Semi-Annually
Total Organic Halogens	Reserved	NE	mg/l	Semi-Annually	Semi-Annually

¹⁵ If four consecutive samples result in non-detect, the permittee may request reduction to yearly sampling or elimination of sampling for that constituent

¹⁶ Reserved means if an AWQS is adopted by rule by the Arizona Department of Environmental Quality, that limit will replace "Reserved" in this permit.

¹⁷ NE=Not Established = Monitoring required but no limits have been specified at time of permit issuance.

4.2 COMPLIANCE (or OPERATIONAL) MONITORING

TABLE IA-218
ROUTINE DISCHARGE MONITORING – Updated Facility – Over 0. 0195 mgd

Sampling Point Number	Sampling Point Identification			Latitude	Longitude
1	Discharge to the evaporation ponds			32° 51' 02" N	114° 21' 10" W
Parameter	AL ¹⁹	DL ²⁰	Units	Sampling Frequency	Reporting Frequency
Total Flow: Daily ²¹	Not Established ²²	Not Established	mgd ²³	Daily ²⁴	Quarterly
Total Flow: Average Annual	Not Established	0.02925	mgd	Annually ²⁵	Quarterly
Total Nitrogen ²⁶ : 5-sampling rolling geometric mean.	Not Established	Not Established	mg/l	Monthly ²⁷	Quarterly
Nitrate-Nitrite as N	Not Established	Not Established	mg/l	Monthly	Quarterly
Total Kjeldahl Nitrogen (TKN)	Not Established	Not Established	mg/l	Monthly	Quarterly

¹⁸ Commence monitoring under this Table upon ADEQ approval of Compliance Schedule items 3.1 and 3.2 in Section 3.0 of the Permit.

¹⁹AL = Alert Level

²⁰DL = Discharge Limit

²¹Total flow is measured in million gallons per day (MGD)

²²Not Established = Monitoring required but no limits have been specified at time of permit issuance.

²³mgd = million gallons per day

²⁴Flow shall be measured using a continuous recording flow meter which totals the flow daily.

²⁵Annually = Calculated value = Average of daily flows in a year.

²⁶Total Nitrogen = Nitrate as N + Nitrite as N + Total Kjeldahl Nitrogen.

²⁷A 5-Month Geometric Mean of the results of the 5 most recent samples

4.2 COMPLIANCE (or OPERATIONAL) MONITORING

TABLE IA-2
ROUTINE DISCHARGE MONITORING (continued)

Parameter	AL	DL	Units	Sampling Frequency	Reporting Frequency
Metals (Total)²⁸:					
Antimony	0.006	NE ²⁹	mg/l	Quarterly	Quarterly
Arsenic	0.05	NE	mg/l	Quarterly	Quarterly
Barium	2.00	NE	mg/l	Quarterly	Quarterly
Beryllium	0.004	NE	mg/l	Quarterly	Quarterly
Cadmium	0.005	NE	mg/l	Quarterly	Quarterly
Chromium	0.1	NE	mg/l	Quarterly	Quarterly
Cyanide (as free cyanide)	0.2	NE	mg/l	Quarterly	Quarterly
Fluoride	10.6	NE	mg/l	Quarterly	Quarterly
Lead	0.05	NE	mg/l	Quarterly	Quarterly
Mercury	0.002	NE	mg/l	Quarterly	Quarterly
Nickel	0.1	NE	mg/l	Quarterly	Quarterly
Selenium	0.05	NE	mg/l	Quarterly	Quarterly
Thallium	0.002	NE	mg/l	Quarterly	Quarterly

²⁸ If four consecutive samples result in non-detect, the permittee may request reduction to yearly sampling or elimination of sampling for that constituent

²⁹ NE=Not Established = Monitoring required but no limits have been specified at time of permit issuance.

4.2 TABLES OF MONITORING REQUIREMENTS

TABLE IA-2
ROUTINE DISCHARGE MONITORING (continued)

Parameter	AL	DL	Units	Sampling Frequency	Reporting Frequency
Volatile Organic Compounds (VOCs) ³⁰:					
Benzene	0.005	NE ³¹	mg/l	Semi-Annually	Semi-Annually
Carbon tetrachloride	0.005	NE	mg/l	Semi-Annually	Semi-Annually
o-Dichlorobenzene	0.6	NE	mg/l	Semi-Annually	Semi-Annually
para-Dichlorobenzene	0.075	NE	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloroethane	0.005	NE	mg/l	Semi-Annually	Semi-Annually
1,1-Dichloroethylene	0.007	NE	mg/l	Semi-Annually	Semi-Annually
cis-1,2-Dichloroethylene	0.07	NE	mg/l	Semi-Annually	Semi-Annually
trans-1,2-Dichloroethylene	0.1	NE	mg/l	Semi-Annually	Semi-Annually
Dichloromethane	0.005	NE	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloropropane	0.005	NE	mg/l	Semi-Annually	Semi-Annually
Ethylbenzene	0.7	NE	mg/l	Semi-Annually	Semi-Annually
Hexachlorobenzene	0.001	NE	mg/l	Semi-Annually	Semi-Annually
Hexachlorocyclopentadiene	0.05	NE	mg/l	Semi-Annually	Semi-Annually
Monochlorobenzene	0.1	NE	mg/l	Semi-Annually	Semi-Annually
Styrene	0.1	NE	mg/l	Semi-Annually	Semi-Annually
Tetrachloroethylene	0.005	NE	mg/l	Semi-Annually	Semi-Annually
Toluene	1.0	NE	mg/l	Semi-Annually	Semi-Annually
Trihalomethanes (total) ³²	0.1	NE	mg/l	Semi-Annually	Semi-Annually
1,1,1-Trichloroethane	0.2	NE	mg/l	Semi-Annually	Semi-Annually
1,2,4 - Trichlorobenzene	0.07	NE	mg/l	Semi-Annually	Semi-Annually
1,1,2 - Trichloroethane	0.005	NE	mg/l	Semi-Annually	Semi-Annually
Trichloroethylene	0.005	NE	mg/l	Semi-Annually	Semi-Annually
Vinyl Chloride	0.002	NE	mg/l	Semi-Annually	Semi-Annually
Xylenes (Total)	10.0	NE	mg/l	Semi-Annually	Semi-Annually

³⁰ If four consecutive samples result in non-detect, the permittee may request reduction to yearly sampling or elimination of sampling for that constituent

³¹ NE=Not Established = Monitoring required but no limits have been specified at time of permit issuance.

³²Total Trihalomethanes are comprised of Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane.

4.2 TABLES OF MONITORING REQUIREMENTS

TABLE IA-2
ROUTINE DISCHARGE MONITORING (continued)

Parameter	AL	DL	Units	Sampling Frequency	Reporting Frequency
Other Parameters³³:					
Total Organic Halogens	Reserved ³⁴	NE ³⁵	mg/l	Semi-Annually	Semi-Annually
Bis(2-Ethyl)phthalate	Reserved	NE	mg/l	Semi-Annually	Semi-Annually
Phenol	Reserved	NE	mg/l	Semi-Annually	Semi-Annually
4-Methylphenol	Reserved	NE	mg/l	Semi-Annually	Semi-Annually
Acetone	Reserved	NE	mg/l	Semi-Annually	Semi-Annually
Total Organic Halogens	Reserved	NE	mg/l	Semi-Annually	Semi-Annually

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³³ If four consecutive samples result in non-detect, the permittee may request reduction to yearly sampling or elimination of sampling for that constituent

³⁴ Reserved means if an AWQS is adopted by rule by the Arizona Department of Environmental Quality, that limit will replace "Reserved" in this permit.

³⁵ NE=Not Established = Monitoring required but no limits have been specified at time of permit issuance.

4.2 COMPLIANCE (or OPERATIONAL) MONITORING

TABLE IB
LEAK COLLECTION REMOVAL SYSTEM MONITORING - Log Book³⁶- No SMRFs

LCRS Sump	Parameter	AL1 ³⁷ (gpd)	AL2 ³⁸ (gpd)	Monitoring ³⁹ Method	Monitoring Frequency	Latitude	Longitude
Facultative Pond 3	Liquid Pumped ⁴⁰	113	3,614	Automated Flow Meter	Weekly	32°51'5.98"N	114°21'8.79"W
Evaporation Pond 3	Liquid Pumped	27	865	Automated Flow Meter	Weekly	32°51'3.78"N	114°21'10.24"W

³⁶ The permittee shall record the inspection performance levels in a log book as per Section 2.7.2 and report any exceedances as per Section 2.6.2.2. In the case of an exceedance, identify which structure exceeds the performance level in the log book. No SMRFs.

³⁷ AL#1= Exceedance in Alert Level #1. The permittee shall place into action the requirements presented in 2.6.2.2.1. Exceedance of an AL is not a violation. If no event occurred, the Permittee shall state the fact in the Log Book.

³⁸ AL#2 = Exceedance in Alert Level #2. The permittee shall place into action the requirements presented in 2.6.2.2.2. Exceedance of an AL is not a violation. If no event occurred, the Permittee shall state the fact in the Log Book.

³⁹ LCRS inspection and leakage quantification shall be performed while the impoundment is “in use” (when fluids are present in the impoundment and/or LCRS). Evacuation of fluids in the sump shall be performed as necessary for accurate monitoring and effective operation of the collection system. Routine analysis of sump fluids is not required. However, characterization of sump fluids is required as a contingency action in Section 2.6.

⁴⁰ The “Liquid Pumped” value to be reported is the amount of liquid pumped from the LCRS sump in gpd.

4.2 COMPLIANCE (or OPERATIONAL) MONITORING

TABLE III
FACILITY INSPECTION - LOG BOOK⁴¹

Pollution Control Structure/Parameter	Performance Level	Inspection Frequency
Pond Freeboard	Minimum of two (2) feet	Weekly
Pond Fluid Level	No unexpected or sudden loss	Weekly and after a significant storm or other natural disaster
Upper Liner Integrity	No visible tears, punctures, cracks, deformities, or other damage due to sunlight, wind, weather, debris, vegetation, animals, or other adverse conditions	Weekly and after a significant storm or other natural disaster
Berm Integrity	No visible structural damage, breach, erosion of embankments, or seepage	Weekly and after a significant storm or other natural disaster
Leak Collection and Removal System (LCRS)	No obstruction in the inspection sump, fluid level maintained below sump capacity, pump(s) maintained in good operational condition	Weekly and after a significant storm or other natural disaster
Flow Meter, Solution-Level Sensor, Chart Recorder, or other measuring device	Maintained for operational conditions	Weekly

⁴¹ The permittee shall record the inspection performance levels in a log book as per Section 2.7.2 and report any violations or exceedances as per Section 2.7.3. In the case of an exceedance, identify which structure exceeds the performance level in the log book.

5.0 REFERENCES AND PERTINENT INFORMATION

The terms and conditions set forth in this permit have been developed based upon the information contained in the following, which are on file with the Department:

1. APP Application dated: August 19, 2019
2. Contingency Plan, dated: November 26, 2019
3. Final Engineering Memo dated: February 4, 2020
4. Final Hydrologist Memo dated: January 22, 2020
5. Financial Review Memo dated: NA
6. Public Notice date: NA

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6.0 NOTIFICATION PROVISIONS

6.1 Annual Registration Fees

The permittee is notified of the obligation to pay an Annual Registration Fee to ADEQ. The Annual Registration Fee is based on the amount of daily influent or discharge of pollutants in gallons per day (gpd) as established by A.R.S. § 49-242.

6.2 Duty to Comply [A.R.S. §§ 49-221 through 263]

The permittee is notified of the obligation to comply with all conditions of this permit and all applicable provisions of Title 49, Chapter 2, Articles 1, 2 and 3 of the Arizona Revised Statutes, Title 18, Chapter 9, Articles 1 through 4, and Title 18, Chapter 11, Article 4 of the Arizona Administrative Code. Any permit non-compliance constitutes a violation and is grounds for an enforcement action pursuant to Title 49, Chapter 2, Article 4 or permit amendment, suspension, or revocation.

6.3 Duty to Provide Information [A.R.S. §§ 49-243(K)(2) and 49-243(K)(8)]

The permittee shall furnish to the Director, or an authorized representative, within a time specified, any information which the Director may request to determine whether cause exists for amending or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

6.4 Compliance with Aquifer Water Quality Standards [A.R.S. §§ 49-243(B)(2) and 49-243(B)(3)]

The permittee shall not cause or contribute to a violation of an Aquifer Water Quality Standard (AWQS) at the applicable point of compliance (POC) for the facility. Where, at the time of issuance of the permit, an aquifer already exceeds an AWQS for a pollutant, the permittee shall not discharge that pollutant so as to further degrade, at the applicable point of compliance for the facility, the water quality of any aquifer for that pollutant.

6.5 Technical and Financial Capability [A.R.S. §§ 49-243(K)(8) and 49-243(N) and A.A.C. R18-9-A202(B) and R18-9-A203(E) and (F)]

The permittee shall have and maintain the technical and financial capability necessary to fully carry out the terms and conditions of this permit. Any bond, insurance policy, trust fund, or other financial assurance mechanism provided as a demonstration of financial capability in the permit application, pursuant to A.A.C. R18-9-A203(C), shall be in effect prior to any discharge authorized by this permit and shall remain in effect for the duration of the permit.

6.6 Reporting of Bankruptcy or Environmental Enforcement [A.A.C. R18-9-A207(C)]

The permittee shall notify the Director within five days after the occurrence of any one of the following:

1. the filing of bankruptcy by the permittee; or
2. the entry of any order or judgment not issued by the Director against the permittee for the enforcement of any environmental protection statute or rule.

6.7 Monitoring and Records [A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A206]

The permittee shall conduct any monitoring activity necessary to assure compliance with this permit, with the applicable water quality standards established pursuant to A.R.S. §§ 49-221 and 49-223 and §§ 49-241 through 49-252.

6.8 Inspection and Entry [A.R.S. §§ 49-1009, 49-203(B), and 49-243(K)(8)]

In accordance with A.R.S. §§ 41-1009 and 49-203(B), the permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to enter and inspect the facility as reasonably necessary to ensure compliance with Title 49, Chapter 2, Article 3 of the Arizona Revised Statutes, and Title 18, Chapter 9, Articles 1 through 4 of the Arizona Administrative Code and the terms and conditions of this permit.

6.9 Duty to Modify [A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A211]

The permittee shall apply for and receive a written amendment before deviating from any of the designs or operational practices authorized by this permit.

**6.10 Permit Action: Amendment, Transfer, Suspension, and Revocation
[A.R.S. §§ 49-201, 49-241 through 251, A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213]**

This permit may be amended, transferred, suspended, or revoked for cause, under the rules of the Department. The permittee shall notify the Groundwater Protection Value Stream in writing within 15 days after any change in the owner or operator of the facility. The notification shall state the permit number, the name of the facility, the date of property transfer, and the name, address, and phone number where the new owner or operator can be reached. The operator shall advise the new owner or operators of the terms of this permit and the need for permit transfer in accordance with the rules.

7.0 ADDITIONAL PERMIT CONDITIONS

7.1 Other Information [A.R.S. § 49-243(K)(8)]

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application or submitted incorrect information in a permit application or in any report to the Director, the permittee shall promptly submit the correct facts or information.

**7.2 Severability
[A.R.S. §§ 49-201, 49-241 through 251, A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213]**

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. The filing of a request by the permittee for a permit action does not stay or suspend the effectiveness of any existing permit condition.

7.3 Permit Transfer

This permit may not be transferred to any other person except after notice to and approval of the transfer by the Department. No transfer shall be approved until the applicant complies with all transfer requirements as specified in A.A.C. R18-9-A212(B) and (C).