

**STATE OF ARIZONA
SIGNIFICANT AMENDMENT TO
AQUIFER PROTECTION PERMIT NO. P- 105903
PLACE ID 2940, LTF 38295**

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, Evergreen Maintenance Center, Inc. is hereby authorized to operate the Evergreen Maintenance Center, Aircraft Paint Stripping Rack located on the Pinal Air Park, Marana, Arizona, over groundwater of the Avra Valley Basin of the Tucson Active Management Area, in the SW¹/₄ of the NE¹/₄of the SE¹/₄, Section 33, Township 10 South, Range 10 East of the Gila and Salt River Base Line 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: Evergreen Maintenance Center (EMC) Aircraft Paint Stripping Rack (APSR)

Permittee:	Mailing Address:	Facility's Street Address:
Evergreen Maintenance Center, Inc.	Evergreen Maintenance Center, Inc. Pinal Air Park Marana, Arizona 85653	Evergreen Maintenance Center, Inc. Pinal Air Park Marana, Arizona 85653

Facility Contact: Michael Michels, Director QA/QC (520) 682-4181

Emergency Telephone Number: (520) 682-4181 Michael Michels

Latitude: 32° 30' 20" North

Longitude: 111° 19' 00" West

Legal Description: SE1/4, NW1/4, SE1/4 of Section 33, Township 10 South, Range 10 East of the Gila and Salt River Baseline and Meridian

1.2 AUTHORIZING SIGNATURE

Joan Card, Director
Water Quality Division
Arizona Department of Environmental Quality
Signed this ____ day of _____, 2009

THIS AMENDMENT SUPERSEDES ALL PREVIOUS AMENDMENTS

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 site currently occupied by the EMC has been used as an aircraft facility since 1942. EMC, acquired a lease for the site in 1975 and has operated the air center since that time. Site activities include maintenance, testing, and repair of commercial aircraft. A part of the operation consists of stripping and repainting aircraft. The Aircraft Paint Stripping Rack (APSR), was placed in operation in 1988, and is currently used to wash and remove paint from aircraft. Approximately 20 aircraft per year, from 1988 to 1998, were stripped of paint at this facility. The process employed during the 1988 to 1998 period generally consisted of dissolving paint off aircraft using dichloromethane. An average stripping operation included approximately 440 gallons of dichloromethane-based stripper, 75 gallons of A-C brightener, 80 gallons of urethane paint and chromate containing primer, and 50 gallons of chromic acid (e.g., Alodine). This effluent stream was passed through the treatment facility adjacent to the APSR.

From 1998 to the present, a paint-stripping product containing formic acid, benzol alcohol, and mineral oil has been used exclusively on the APSR. The typical effluent stream from the stripping of an aircraft includes approximately 440 gallons of formic acid paint stripper, 70 gallons of A-C brightener, 80 gallons of urethane paint, 50 gallons of chromic acid, and 50 gallons of Alodine. From 1998 to the present, the average number of aircraft stripped at the facility has been approximately 6 per year.

Approximately 60 aircrafts per year are washed and degreased on the APSR using a degreasing agent known as Astromat orange. Astromat orange has been used exclusively at the facility for degreasing since 1990. EMC management, through the APSR Manager’s memo of August 6, 2001, has strictly forbidden the use of chlorinated solvents at the APSR.

The APSR consists of a 12-inch thick concrete pad with an 8-inch concrete curb surrounding the work area. Process solutions are removed from the transmission line sump using a pump with a suction line placed in the sump. There are four holding tanks on site, with an aggregate capacity in excess of 70,000 gallons. Process solutions pumped from the sump are placed into one of these four holding tanks, depending on the remaining capacity. The same process is used for solutions removed for the LDRS. LDRS solutions are also placed in the same holding tanks. When holding tanks reach 90 percent capacity, an Arizona-certified industrial wastewater hauler is employed to empty the tanks and haul the waste off-site. Samples of the wastewater indicate that it is industrial waste water.

The site includes the following permitted discharging facility:

Facility	Latitude	Longitude
Aircraft Stripping Rack	32° 30' 20" North	111° 19' 00" West

Annual Registration Fee [A.R.S. § 49-242(D)]

The Annual Registration Fee for this permit is established by A.R.S. § 49-242(D) and is payable to ADEQ each year. The design flow is 70,000 gallons per day.

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 permittee shall maintain financial capability throughout the life of the facility. The estimated closure and post-closure cost is \$377,214 and \$161,621, respectively. The financial assurance mechanism was demonstrated through A.A.C. R18-9-A203(C)(2).

2.2 Best Available Demonstrated Control Technology [A.R.S. § 49-243(B) and A.A.C. R18-9-A202 (A) (5)]

The EMC aircraft wash/paint stripping operation process solutions are pumped immediately into four above ground storage tanks. The original drain system installed in 1988 was replaced in 2007 with the addition of a leak detection and recovery system (LDRS). Process solutions enter the main transmission line, which is paired with a perforated head reduction line to reduce the head on the primary liner. Both of these lines discharge into a watertight sump. Process water is removed from the sump, using a pump with a suction line placed in the sump, and is placed into one of the four holding tanks, depending on the remaining capacity. Process solutions are also pumped from the LDRS that is located below the main transmission lines (below the primary liner) but inside of secondary containment. Solutions recovered from the LDRS are also placed in the same holding tanks. The wastewater is shipped via truck off-site storage by an Arizona certified industrial water hauler. Chlorinated solvents are no longer used on the paint stripping rack.

2.2.1 Engineering Design

The APSR is a 250 foot by 240 foot by 12-inch-thick concrete pad with an 8-inch concrete curb surrounding the work area. The joints in the pad are sealed with a chemically resistant epoxy resin. The concrete pad is underlain by 3 inches of compacted white silica sand, which is underlain by dual 20-mil High Density Polyethylene (HDPE) liners. The HDPE liners were constructed over a 3 foot compacted sub-base. A soil gas monitoring system is in place underneath the HDPE liners.

The original drain and transmission system for the APSR pad was removed and replaced with a new slotted drain, new transmission system and LDRS in December 2007. The slotted drain is encased in concrete that is tied into the existing pad with 1.25-inch-diameter dowels, which are 20 inches long, at a spacing of 15 inches on center. Below the drain and transmission system, 2 new 40-mil HDPE liners were installed and welded to the existing 20-mil HDPE liners below the existing pad. A 4-inch HDPE perforated pipe was installed between the 2 new 40-mil HDPE liners as part of the LDRS. The new slotted drain was designed to collect and convey process solution to a catch basin where it enters a 12-inch PVC transmission pipe to flow to the collection sump.

Both the slotted drain and transmission line are paired with an underlying, slotted, 4-inch pipe that also discharges to the collection sump. The 4-inch slotted pipe is located directly on top of the primary 40 mil HDPE liner and serves to reduce head on the primary HDPE liner. The LDRS standpipe is located inside of the former treatment compound and is protected by a traffic-rated vault adjacent to the collections sump to allow monitoring, removal, and sampling of any liquids present in the LDRS.

An over spray area extends 60 feet beyond the perimeter of the APSR pad. The over spray area has approximately 3 to 4 feet of compacted fill placed on top of a single 20-mil HDPE liner. The edge of the overspray area consists of a berm used to route storm water around the facility. Any precipitation falling in the over spray area accumulates and re-evaporates. The over spray area liner is configured vertically along the edge of the concrete pad such that any water accumulating in the over spray area cannot migrate under the pad, or into the containment system.

2.2.2 Site-specific Characteristics

Site characteristics are not a part of BADCT for this facility. The depth to ground water under the site is approximately 180 feet below ground surface.

2.2.3 Pre-operational Requirements

Prior to installation of the liner, the lining contractor and construction manager inspected and verified that the subgrade had a continuous smooth surface that was free of protrusions of rocks or sharp objects, and that proper compaction was achieved. The field service representative provided written certification to ADEQ that the installation of the liner system was performed in accordance with the manufacturer's recommendation and industry standards.

Documentation of the central drain system and the LDRS reconstruction activities were provided to ADEQ. These documents included the EMC Site Characterization Report, along with As-Built drawings received February 12, 2008, and the EMC, APSR Improvement Plans, Specifications and

Contract Documents, were received on May 12, 2008. Both documents were prepared by Water Management Consultants, Inc. Lastly, the EMC, APSR Improvement Civil Work Submittal, prepared by INNOVA Environmental Engineering, was received by ADEQ on May 6, 2008.

2.2.4 Operational Requirements

The pollution control structures shall be inspected for the items listed in Section 4.2, Table 3. A log of these inspections shall be kept at the facility for 10 years from the date of each inspection, available for review by ADEQ personnel.

If any damage of the pollution control structures is identified during inspection, proper repair procedures shall be performed immediately. All repair procedures and sealing material(s) used shall be documented on the Self-monitoring Report Form (SMRF) and submitted quarterly to ADEQ, Water Quality Compliance Section, Data Unit.

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

Authorized material discharged shall be limited to the process solutions generated from aircraft paint stripping and washing operations. The process solutions shall be handled in a manner such that no discharge to the vadose zone and degradation of the groundwater under the facility occurs. Discharge is only authorized to the surface of the paint stripping rack.

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

The POC is located in the upper aquifer at the following location:

POC	Descriptive Location	Latitude	Longitude
MW-1	Northwest of the APSR	32° 30' 20" N	111° 19' 02" W

Groundwater monitoring is required in accordance with Section 4.2, Table 2.

The Director may designate additional POCs, 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)]

All monitoring required in this permit shall continue for the duration of the permit, regardless of the status of the facility. 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. The permittee shall consult the most recent version of the ADEQ Quality Assurance Project Plan (QAPP) and EPA 40 CFR PART 136 for guidance in this regard. 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 Discharge Monitoring

The applicant shall collect a representative fluid sample from the LDRS at the APSR on a quarterly basis for 1 year. The sample shall be collected within 24 hours after the use of the aircraft stripping paint rack. The discharge characterization samples shall be analyzed for the parameters listed in Section 4.2, Table 1.

The results of this discharge characterization shall be calculation of an LDRS flow rate, LDRS operating water levels, and identification of the chemicals contained in typical process solutions. These results shall be submitted to the Groundwater Section, Technical Support Unit as specified in the permit Compliance Schedule. Because of the wide variation in the concentration of the various constituents in typical process solutions, water quality Alert Levels cannot be set for LDRS solution. Rather, chemical characterization is performed for the purposes of identifying the chemicals that could potentially migrate to groundwater, and therefore, should be monitored in the groundwater POC well.

2.5.2 Facility / Operational Monitoring

Operational monitoring shall be conducted as required in Section 4.2 Table 3.

If any damage of the monitoring equipment is identified during an inspection, proper repair procedures shall be performed. All repair procedures and material(s) used shall be documented in the annual report required under Section 2.7.4.

2.5.3 Groundwater Monitoring and Sampling Protocols

Static water levels shall be measured in monitoring wells and recorded prior to sampling. Wells shall be purged of at least three borehole volumes or until field parameters (pH, temperature, and conductivity) are stable, whichever represents the greater volume. If evacuation results in the well going dry, the well shall be allowed to recover to 80 percent of the original borehole volume or for 24 hours, whichever is shorter, prior to sampling. If after 24 hours there is not sufficient water for sampling, the well shall be recorded as dry for the monitoring event. An explanation for reduced pumping volumes, a record of the volume pumped, and modified sampling procedures shall be reported and submitted with the SMRF.

2.5.3.1 Compliance Groundwater Monitoring for POC Wells

Annual compliance groundwater monitoring in each POC well is required. The applicant shall analyze groundwater samples for the parameters listed in Section 4.2, Table 2. Compliance groundwater monitoring shall continue for the life of the facility.

2.5.3.2 POC Well Replacement

In the event that one or more of the designated POC wells should become unusable or inaccessible due to damage, a decrease in water levels, or any other event, a replacement POC well shall be constructed and installed within 90 days upon approval by ADEQ.

2.5.4 Soil Gas Monitoring

The soil gas monitoring requirement has been removed from the permit based on the results of the site characterization and liner repair performed in December 2007. Soil gas monitoring for the past 5 years has shown the presence of chlorinated solvent and other hydrocarbons at concentrations that, when converted to soil concentrations, are well below the corresponding residential Soil Remediation Levels.

2.5.5 Surface Water Monitoring and Sampling Protocols

Surface water monitoring is not a requirement 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. Analyses shall be performed by a laboratory licensed by the Arizona Department of Health Services, Office of Laboratory Licensure and Certification. 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, AZ 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 soil gas monitoring probes and or groundwater wells are determined to be necessary, the construction details shall be submitted to the ADEQ GWS 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 Considerations

At least one copy of the approved contingency and emergency response plan(s) submitted in the application referenced in Section 2.6.5 of this permit 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 plans.

Any alert level (AL) that is exceeded or any violation of an aquifer quality limit (AQL), discharge limits (DL), or other permit condition shall be reported to ADEQ following the reporting requirements in Section 2.7.3.

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 that an AL has been exceeded. 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. The permittee is subject to enforcement action for the failure to comply with any 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 has 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

2.6.2.1 Exceedance of Action Leakage Rate for Impoundments

At a minimum, the permittee shall initiate the following actions within three (3) days of becoming aware of an exceedance of the action leakage rate (ALR) set in Section 4.2, Table 1. All information shall be recorded in a log book as described in Section 2.7.2.

The permittee shall:

1. Pump out all fluid collected in the LDRS to reduce head on the liner system;
2. Quantify and record the amount of fluid pumped from the LDRS on a daily basis until the leakage rate is no longer exceeded;
3. Assess the potential for migration of liquids out of the containment system; and,
4. Submit the results of the assessment, the cause of the exceedance and actions taken to resolve the problem in the report under Section 2.7.3.

2.6.2.2 Exceedance of Rapid and Large Leakage Rates

Additional response actions based on rapid and large leakage rate (RLL) limits set in Section 4.2, Tables 1 shall include the following:

1. Notify the ADEQ Water Quality Compliance Section, within 24 hours of becoming aware of the exceedance,
2. Pump out all fluid in the LDRS, and
3. Monitor and pump out all fluid collected in the LDRS twice-daily while the APSR is being used.

Within 30 days of a confirmed RLL exceedance, the permittee shall submit a written report to the Compliance Section. The written report shall include a description of the exceedance and its potential causes, the period of exceedance and the anticipated time period during which the exceedance is expected to continue, and a description of any actions taken or planned to be taken to eliminate or prevent recurrence of the exceedance and to mitigate the impacts of the exceedance. Upon approval of the ADEQ, GWS the permittee shall initiate the actions necessary to mitigate the impacts of the exceedance.

2.6.2.3 Exceeding of Alert Levels for Discharge Monitoring

The permit requires discharge characterization however ALs for quality of the process solutions will not be required at this time due to the double-lined leak detection system currently installed at the site. The submittal of the discharge characterization results and the ALs for the flow and operational water level requirements shall be submitted as part of the Compliance Schedule of this permit.

2.6.2.4 Exceeding of Alert Levels in Groundwater Monitoring

2.6.2.4.1 Alert Levels for Indicator Parameters

1. If an AL for an indicator parameter set in Section 4.2, Table 2 has been exceeded, the permittee may sample for the complete set of pollutants listed in Section 4.2, Table 2 at the frequency specified in that Table 2.
2. The permittee shall continue testing for this set of pollutants until all indicator parameters have remained below the AL for four consecutive sampling events.

2.6.2.4.2 Alert Levels for Pollutants with Numeric Aquifer Water Quality Standards

1. If an AL for a pollutant set in Section 4.2, Table 2 has been exceeded, the permittee may conduct verification sampling within 5 days of becoming aware of an AL being exceeded. The permittee may use the results of another sample taken between the date of the last sampling event and the date of receiving the result as verification.
2. If verification sampling confirms the AL being exceeded or if the permittee opts not to perform verification sampling, then the permittee shall increase the frequency of monitoring to monthly. In addition, the permittee shall immediately initiate an investigation of the cause of the AL being exceeded, including inspection of all discharging units and all related pollution control devices, review of any operational and maintenance practices that might have resulted in an unexpected discharge, and hydrologic review of groundwater conditions including upgradient water quality.
3. 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 being exceeded. To implement any other corrective action the permittee shall obtain prior approval from ADEQ according to Section 2.6.6. Alternatively, the permittee may submit a technical demonstration, subject to written approval by the Groundwater Section, that although an AL is exceeded, pollutants are not reasonably expected to cause a violation of an AQL. The demonstration may propose a revised AL or monitoring frequency for approval in writing by the Groundwater Section.
4. Within 30 days after confirmation of an AL being exceeded, the permittee

shall submit the laboratory results to the Water Quality Compliance Section along with a summary of the findings of the investigation, the cause of the AL being exceeded, and actions taken to resolve the problem.

5. Upon review of the submitted report, the Department may amend the permit to require additional monitoring, increased frequency of monitoring, or other actions.
6. The increased monitoring required as a result of ALs being exceeded may be reduced to quarterly, if the results of six, sequential, sampling events demonstrate that no parameters exceed the AL.
7. If the increased monitoring required as a result of an AL exceedance continues for more than six, sequential, sampling events, the permittee shall submit a second report documenting an investigation of the continued AL exceedance within 30 days of the receipt of laboratory results of the sixth sampling event.

2.6.3 Discharge Limitations (DL) Violations

2.6.3.1 Liner Failure, Containment Structure Failure, or Unexpected Loss of Fluid

In the event of liner failure, containment structure failure, or unexpected loss of fluid such that process solutions are discharged to the ground surface or to the vadose zone, the permittee shall take the following actions:

1. As soon as practicable, cease all activities on the APSR as necessary to prevent any further releases to the environment.
2. Within 24 hours of discovery, notify ADEQ Water Quality Compliance Section.
3. Within 5 days of discovery of a failure that resulted in a release to the subsurface, collect representative samples of the fluid remaining in the LDRS, analyze sample(s) according to Section 4.2, Table 1 and report in accordance with Section 2.7.3 (Permit Violation and AL Status Reporting). Within 30 days of the incident, submit a copy of the analytical results to ADEQ Water Quality Compliance Section and Groundwater Section.
4. Within 15 days of discovery, initiate an evaluation to determine the cause for the incident. Identify the circumstances that resulted in the failure and assess the condition of the surface of the concrete APSR pad. Implement corrective actions as necessary to resolve the problems identified in the evaluation. Seal any cracks in the concrete with chemically resistant epoxy. Initiate repairs to any, system, structure, or other component as needed to restore proper functioning of the APSR. The permittee shall not resume discharging to the surface of the APSR until repairs are performed. Repair procedures, methods, and materials used to restore the system(s) to proper operating condition shall be described in the facility log/recordkeeping file and available for ADEQ review.
5. As soon as practicable, take remedial actions to prevent further releases to the subsurface and/or to perform repairs. Record in the facility log/recordkeeping file the amount of fluid removed from the LDRS, a description of the removal method, and other disposal arrangements. The facility log/recordkeeping file shall be maintained according to Section 2.7.2 (Operation Inspection / Log/Recordkeeping File).
6. Within 30 days of discovery of the incident, submit a report to ADEQ as specified in Section 2.7.3 (Permit Violation and AL Status Reporting). Include a description of the actions performed in Subsections 1 through 5 listed above. Upon review of the report, ADEQ may request additional monitoring or remedial actions.
7. Within 60 days of discovery, conduct an assessment of the impacts to the subsoil and/or groundwater resulting from the incident. If soil or groundwater are impacted such that it could cause or contribute to an exceedance of an AQL at the applicable point of compliance, submit to ADEQ, for approval, a corrective action plan to address such impacts, including identification of remedial actions and/or monitoring, and a schedule for completion of activities. At the direction of ADEQ, the permittee shall implement

the approved plan.

8. Within 30 days of completion of corrective actions, submit to ADEQ, a written report as specified in section 2.6.6 (Corrective Actions).
9. Upon review of the report, ADEQ 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

1. If an AQL set in Section 4.2, Table 2- has been exceeded, the permittee may conduct verification sampling within 5 days of becoming aware of an AQL being exceeded. The permittee may use the results of another sample taken between the date of the last sampling event and the date of receiving the result as verification.
2. If verification sampling confirms that the AQL is violated for any parameter or if the permittee opts not to perform verification sampling, then the permittee shall increase the frequency of monitoring to monthly. In addition, the permittee shall immediately initiate an evaluation for the cause of the violation, including inspection of all discharging units and all related pollution control devices, and review of any operational and maintenance practices that might have resulted in unexpected discharge.

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. A verified exceedance of an AQL will be considered a violation unless the permittee demonstrates within 30 days that the exceedance was not caused or contributed to by pollutants discharged from the facility. Unless the permittee has demonstrated that the exceedance was not caused or contributed to by pollutants discharged from the facility, 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, 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.

3. Upon review of the submitted report, the Department may amend the permit to require additional monitoring, increased frequency of monitoring, or other actions.
4. The permittee shall notify any downstream or downgradient users who may be directly affected by the discharge.

2.6.5 Emergency Response and Contingency Requirements for Spills and Unauthorized Discharges

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 ADEQ Water Quality Compliance Section at (602) 771-4497, within 24 hours upon discovering the discharge of hazardous material which: a) has the potential to cause an AWQS or AQL to be exceeded; 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 ADEQ Water Quality Compliance Section at (602) 771-4497 within 24 hours upon discovering the discharge of non-hazardous material which: a) has the potential to cause an AQL to be exceeded; or b) 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 ADEQ 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 that 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 Part 2.6 and actions identified in the approved contingency plan referenced in Part 5.0 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 Section prior to implementing a corrective action to accomplish any of the following goals in response to exceeding 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; and/or
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 ADEQ Water Quality Compliance Section, 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 Forms

1. The permittee shall complete the SMRFs provided by ADEQ, and submit them to the Water Quality Compliance Section, Data Unit.
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 quarter, the permittee shall enter "not required" on the SMRF and submit the report to ADEQ. The permittee shall use the format devised by ADEQ.
3. The tables contained in Section 4.2 list the parameters to be monitored and the frequency for reporting the results of groundwater compliance monitoring. Monitoring methods shall be recorded on the SMRFs.
4. In addition to the SMRF, the information contained in Section 2.7.2 shall be included for exceeding an AL or violation of an AQL, DL, or any other permit condition being reported in the current reporting period.

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 shift 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;
6. Any other information required by this permit to be entered in the log book, and
7. Monitoring records for each measurement shall comply with R18-9 A206(B)(2).

2.7.3 Permit Violation and Alert Level Status Reporting

1. The permittee shall notify the Water Quality Compliance Section 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 Alert Level being exceeded. A copy of this notification shall also be submitted to the Groundwater Section, Industrial and Drywell Unit.
2. The permittee shall submit a written report to the Water Quality Compliance Section and copy the Groundwater Section within 30 days of becoming aware of the violation of any permit condition or discharge limitation. 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 its 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 Aquifer Water Quality Standard.
 - e. Proposed changes to the monitoring which include changes in constituents or increased frequency of monitoring.
 - 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 submit an annual report in narrative and/or tabular form to ADEQ Water Quality Compliance Section and copy the Groundwater Section that briefly summarizes the status of compliance under this permit. The report shall identify any contingency actions taken, violations of this permit, or any Alert Levels or Discharge Limitations that have been exceeded; shall summarize the findings of the wastewater containment structure monitoring identified in Section 4.2, TABLE 3 and specifically requested by permit condition to be submitted in the annual report. The annual report is to be submitted by March 31st of each year to cover activities from January 1 through December 31st of the previous year.

2.7.5 Reporting Location

All SMRFs shall be submitted to:

Arizona Department of Environmental Quality
Water Quality Compliance Section, Data Unit
Mail Code: 5415B-1

1110 W. Washington Street
Phoenix, AZ 85007
Phone (602) 771-4513

All documents required by this permit to be submitted to the Water Quality Compliance Section shall be directed to:

Water Quality Compliance Section
Mail Code: 5415B-1
1110 W. Washington Street
Phoenix, AZ 85007
Phone (602) 771-4497

All documents required by this permit to be submitted to the Groundwater Section shall be directed to:

Arizona Department of Environmental Quality
Groundwater Section
Mail Code: 5415B-3
1110 W. Washington Street
Phoenix, AZ 85007
Phone (602) 771-4428

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

The following table lists the annual report due date:

Monitoring conducted during:	Annual Report due by:
January-December	March 31 (of following year)

2.7.7 Changes to Facility Information in Section 1.0

The Groundwater Section and Water Quality Compliance Section shall be notified within 10 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 Water Quality Compliance Section upon ceasing operation of the facility for a period of 60 days or greater. 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's approval, the permittee shall implement the approved plan. If necessary, ADEQ shall amend permit conditions to incorporate conditions to address temporary cessation. If the facility will cease operation for greater than three years, 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 Water Quality Compliance Section of the permittee's intent to cease operation without resuming activity for which the facility was designed or operated.

2.9.1 Closure Plan

Within 90 days following notification of closure, the permittee shall submit for approval to the Groundwater Section, a detailed Closure Plan which meets the requirements of A.R.S. § 49-252 and A.A.C. R18-9-A209(B)(3)(a). Furthermore, the plan shall address the following:

1. The approximate quantities and the chemical, biological, and physical characteristics of the materials to be removed from the facility;
2. The destination of the materials to be removed from the facility and an indication that placement of the materials at that destination is approved;
3. The approximate quantities and the chemical, biological, and physical characteristics of the materials that will remain at the facility;
4. The methods to be used to treat any materials remaining at the facility;
5. The methods to be used to control the discharge of pollutants from the facility;
6. Any limitations on future land or water uses created as a result of the facility's operations or closure activities;
7. The methods to be used to secure the facility;
8. An estimate of the cost of closure; and
9. A schedule for implementation of the closure plan and the submission of a post-closure plan.

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 Section 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 aquifer water quality standards at the applicable point of compliance;
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;
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 Section.

In the event clean closure cannot be achieved pursuant to A.R.S. § 49-252, the permittee shall submit for approval to the Groundwater Section 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.

DRAFT

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

For each compliance schedule item listed below, the permittee shall submit the required information, including a cover letter that lists the compliance schedule items, to the Groundwater Section. A copy of the cover letter must also be submitted to the Water Quality Compliance Section, Data Unit.

Compliance Item	Completion/Submittal Date	Comments
The permittee shall complete the required well installation as referenced in Section 2.5.3.1.	Submitted on March 15, 2006	Completed
Two copies of the well installation report and the groundwater gradient determination for the site as referenced in Section 2.5.3.1 shall be submitted to the ADEQ, Water Quality Compliance Section for review.	Submitted on March 15, 2006	Completed
The permittee shall submit tabulated ambient water quality data as required in Section 4.2, TABLE 3.	Submitted on March 15, 2006	Completed
Upon completion of seven quarterly ambient water quality-sampling periods, the permittee shall submit a report which includes statistical calculation of the data.	Submitted on March 15, 2006	Completed
Submission of the emergency response plan.	Submitted on March 15, 2006	Completed
Submit a proposal to ADEQ for establishing Alert Levels and Aquifer Quality Limits for groundwater monitoring based upon the ambient water quality data submitted.	Submitted on March 15, 2006	Completed
Submit SCR and liner repair	Submitted on February 28, 2008	Completed
Submit the results of the discharge characterization for water quality and the calculation of alert levels for LDRS liquid flow rate.	Within 12 months of permit issuance	The submittal of the results must include a discussion of the LDRS design volume as it relates to the flow rate and water level alert levels.
Notification to ADEQ if chlorinated solvents will be	30 days prior to use of chlorinated solvents at the site	Resume soil gas sampling prior to use of any chlorinated solvents for aircraft

Compliance Item	Completion/Submittal Date	Comments
used at the site and initiation of soil gas sampling.		painting stripping and/or washing. A permit amendment will be required to set alert levels, discharge limitations, contingency actions, sampling tables and all other applicable permit conditions for soil gas monitoring.

DRAFT

4.0 TABLES OF MONITORING REQUIREMENTS

4.1 PRE-OPERATIONAL MONITORING (or CONSTRUCTION REQUIREMENTS)

This Section is not applicable to this permit.

4.2 COMPLIANCE (or OPERATIONAL) MONITORING

Table 1 - Discharge Characterization – Effluent Monitoring

Table 2 - Groundwater Quality Monitoring

Table 3 - Operational Inspections/Monitoring

DRAFT

TABLE 1
APSR LEAK DETECTION AND REMOVAL SYSTEM - DISCHARGE POINT

Sampling Point Number	Monitoring Location	Latitude	Longitude
001	LDRS Standpipe	32° 30' 21.12" North	111° 18' 57.56" West

Parameter	Action Leakage Rate (ALR)	Rapid and Large Leakage Rate (RLL)	Analytical Method	Monitoring Frequency	Reporting Frequency
LDRS					
Rate Pumped	Reserved ¹	2700 gallons per day	Meter/Calc.	Daily	Quarterly

TABLE 1
APSR LEAK DETECTION AND REMOVAL SYSTEM – DISCHARGE CHARACTERIZATION

Parameter	Units	Sampling Frequency	Reporting Frequency
pH	mg/L ²	Quarterly	Annually
Specific Conductivity	mg/L	Quarterly	Annually
Temperature	mg/L	Quarterly	Annually
Antimony	mg/L	Quarterly	Annually
Arsenic	mg/L	Quarterly	Annually
Barium	mg/L	Quarterly	Annually
Beryllium	mg/L	Quarterly	Annually
Cadmium	mg/L	Quarterly	Annually
Calcium	mg/L	Quarterly	Annually
Chromium	mg/L	Quarterly	Annually
Fluoride	mg/L	Quarterly	Annually
Iron	mg/L	Quarterly	Annually
Lead	mg/L	Quarterly	Annually
Magnesium	mg/L	Quarterly	Annually
Nickel	mg/L	Quarterly	Annually
Selenium	mg/L	Quarterly	Annually
Silver	mg/L	Quarterly	Annually
Sodium	mg/L	Quarterly	Annually

1 - To be determined based on Section 3.0 Compliance Schedule that requires the calculation for the alert levels for LDRS liquid flow rate

2 - Milligrams per liter

Note: If no event (i.e. washing, stripping or rainfall) report “no discharge” for that day

TABLE 1 APSR LEAK DETECTION AND REMOVAL SYSTEM – DISCHARGE CHARACTERIZATION			
Parameter	Units	Sampling Frequency	Reporting Frequency
Thallium	mg/L	Quarterly	Annually
Mercury	mg/L	Quarterly	Annually
Chloride	mg/L	Quarterly	Annually
Sulfate	mg/L	Quarterly	Annually
Nitrogen, Kjeldahl, Total	mg/L	Quarterly	Annually
Nitrate-Nitrite (As N)	mg/L	Quarterly	Annually
Nitrate (As N)	mg/L	Quarterly	Annually
Total Nitrogen	mg/L	Quarterly	Annually
Oil & Grease	mg/L	Quarterly	Annually
Phenolics, Total Recoverable	mg/L	Quarterly	Annually
Alkalinity, Phenolphthalein (As CaCO ₃)	mg/L	Quarterly	Annually
Total Dissolved Solids	mg/L	Quarterly	Annually
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	Quarterly	Annually
Alkalinity, Carbonate (As CaCO ₃)	mg/L	Quarterly	Annually
Alkalinity, Hydroxide (As CaCO ₃)	mg/L	Quarterly	Annually
Alkalinity, Total (As CaCO ₃)	mg/L	Quarterly	Annually
1,1,1,2-Tetrachloroethane	mg/L	Quarterly	Annually
1,1,1-Trichloroethane	mg/L	Quarterly	Annually
1,1,2,2-Tetrachloroethane	mg/L	Quarterly	Annually
1,1,2-Trichloroethane	mg/L	Quarterly	Annually
1,1-Dichloroethane	mg/L	Quarterly	Annually
1,1-Dichloroethylene	mg/L	Quarterly	Annually
1,1-Dichloropropene	mg/L	Quarterly	Annually
1,2,3-Trichlorobenzene	mg/L	Quarterly	Annually
1,2,3-Trichloropropane	mg/L	Quarterly	Annually
1,2,4-Trichlorobenzene	mg/L	Quarterly	Annually
1,2,4-Trimethylbenzene	mg/L	Quarterly	Annually
1,2-Dibromo-3-chloropropane	mg/L	Quarterly	Annually
1,2-Dibromoethane	mg/L	Quarterly	Annually

Parameter	Units	Sampling Frequency	Reporting Frequency
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/L	Quarterly	Annually
1,2-Dichloroethane	mg/L	Quarterly	Annually
1,2-Dichloropropane	mg/L	Quarterly	Annually
1,3,5-Trimethylbenzene	mg/L	Quarterly	Annually
1,3-Dichlorobenzene	mg/L	Quarterly	Annually
1,3-Dichloropropane	mg/L	Quarterly	Annually
1,4-Dichlorobenzene (para-Dichlorobenzene)	mg/L	Quarterly	Annually
2,2-Dichloropropane	mg/L	Quarterly	Annually
2-Butanone	mg/L	Quarterly	Annually
2-Chlorotoluene	mg/L	Quarterly	Annually
4-Isopropyltoluene	mg/L	Quarterly	Annually
4-Methyl-2-pentanone	mg/L	Quarterly	Annually
Acetone	mg/L	Quarterly	Annually
Benzene	mg/L	Quarterly	Annually
Benzo (a) pyrene	mg/L	Quarterly	Annually
Bromobenzene	mg/L	Quarterly	Annually
Bromochloromethane	mg/L	Quarterly	Annually
Bromodichloromethane	mg/L	Quarterly	Annually
Bromoform	mg/L	Quarterly	Annually
Bromomethane	mg/L	Quarterly	Annually
Carbon Disulfide	mg/L	Quarterly	Annually
Carbon tetrachloride	mg/L	Quarterly	Annually
Chlorobenzene (mono-chlorobenzene)	mg/L	Quarterly	Annually
Chloroethane	mg/L	Quarterly	Annually
Chloroform	mg/L	Quarterly	Annually
Chloromethane	mg/L	Quarterly	Annually
cis-1,2-Dichlorethene	mg/L	Quarterly	Annually
cis-1,2-Dichloroethylene	mg/L	Quarterly	Annually
cis-1,3-Dichloropropene	mg/L	Quarterly	Annually

TABLE 1 APSR LEAK DETECTION AND REMOVAL SYSTEM – DISCHARGE CHARACTERIZATION			
Parameter	Units	Sampling Frequency	Reporting Frequency
di(2-ethylhexyl)adipate	mg/L	Quarterly	Annually
di(2-ethylhexyl)phthalate	mg/L	Quarterly	Annually
Dibromochloromethane	mg/L	Quarterly	Annually
Dibromomethane	mg/L	Quarterly	Annually
Dichlorodifluoromethane	mg/L	Quarterly	Annually
Ethylbenzene	mg/L	Quarterly	Annually
Hexachlorobutadiene	mg/L	Quarterly	Annually
Hexachlorobenzene	mg/L	Quarterly	Annually
Hexachlorocyclopentadiene	mg/L	Quarterly	Annually
Iodomethane	mg/L	Quarterly	Annually
Isopropylbenzene	mg/L	Quarterly	Annually
Methyl-tert-butyl-ether	mg/L	Quarterly	Annually
Methylene chloride (Dichloromethane)	mg/L	Quarterly	Annually
Napthalene	mg/L	Quarterly	Annually
n-Butylbenzene	mg/L	Quarterly	Annually
n-Propylbenzene	mg/L	Quarterly	Annually
Pentachlorophenol	mg/L	Quarterly	Annually
sec-Butylbenzene	mg/L	Quarterly	Annually
Styrene	mg/L	Quarterly	Annually
tert-Butylbenzene	mg/L	Quarterly	Annually
Tetrachloroethylene	mg/L	Quarterly	Annually
Toluene	mg/L	Quarterly	Annually
trans-1,2-Dichloroethylene	mg/L	Quarterly	Annually
trans-1,3-Dichloropropene	mg/L	Quarterly	Annually
Trichloroethylene	mg/L	Quarterly	Annually
Trichlorofluoromethane	mg/L	Quarterly	Annually
Trihalomethanes (Total) ³	mg/L	Quarterly	Annually
Vinyl acetate	mg/L	Quarterly	Annually

3 - Total trihalomethanes include bromoform, bromodichloromethane, chloroform, dibromochloromethane

TABLE 1			
APSR LEAK DETECTION AND REMOVAL SYSTEM – DISCHARGE CHARACTERIZATION			
Parameter	Units	Sampling Frequency	Reporting Frequency
Vinyl chloride	mg/L	Quarterly	Annually
Xylenes, Total	mg/L	Quarterly	Annually

DRAFT

TABLE 2			
GROUNDWATER QUALITY MONITORING – POINT OF COMPLIANCE			
Sampling Point Number	Monitoring Location	Latitude	Longitude
002	MW-1 DWR Well Id # 55-532238 Cadastral B(10-10)33dbd	32° 30' 20" North	111° 19' 02" West

TABLE 2 GROUNDWATER QUALITY MONITORING					
Parameter	Units	AQL⁴	AL⁵	Sampling Frequency	Reporting Frequency
Depth to Water (ft bls ⁶)	NA ⁷	Monitor	Monitor	Annually	Annually
Thickness of Water Column	NA	Monitor	Monitor	Annually	Annually
pH	mg/L	Monitor	Monitor	Annually	Annually
Specific Conductivity	mg/L	Monitor	Monitor	Annually	Annually
Temperature	mg/L	Monitor	Monitor	Annually	Annually
Arsenic	mg/L	0.05	0.04	Annually	Annually
Antimony	mg/L	0.006	0.0048	Annually	Annually
Barium	mg/L	2.0	1.6	Annually	Annually
Beryllium	mg/L	0.004	0.0032	Annually	Annually
Cadmium	mg/L	0.005	0.004	Annually	Annually
Calcium	mg/L	Monitor	Monitor	Annually	Annually
Chromium	mg/L	0.1	0.08	Annually	Annually
Fluoride	mg/L	4.0	3.2	Annually	Annually
Iron	mg/L	Monitor	Monitor	Annually	Annually
Lead	mg/L	0.05	0.04	Annually	Annually
Magnesium	mg/L	Monitor	Monitor	Annually	Annually
Nickel	mg/L	0.1	0.08	Annually	Annually
Selenium	mg/L	0.05	0.04	Annually	Annually
Silver	mg/L	Monitor	Monitor	Annually	Annually
Sodium	mg/L	Monitor	Monitor	Annually	Annually
Thallium	mg/L	0.002	0.0016	Annually	Annually
Mercury	mg/L	0.002	0.0016	Annually	Annually
Chloride	mg/L	Monitor	Monitor	Annually	Annually
Sulfate	mg/L	Monitor	Monitor	Annually	Annually
Nitrogen, Kjeidahl, Total	mg/L	Monitor	Monitor	Annually	Annually
Nitrate	mg/L	32.41	None	Annually	Annually

4 - Aquifer Quality Limit

5 - Alert Level

6 - Feet below land surface

7 - Not applicable

**TABLE 2
GROUNDWATER QUALITY MONITORING**

Parameter	Units	AQL⁴	AL⁵	Sampling Frequency	Reporting Frequency
Nitrate-Nitrite (As N)	mg/L	Monitor	Monitor	Annually	Annually
Total Nitrogen	mg/L	Monitor	Monitor	Annually	Annually
Oil & Grease	mg/L	Monitor	Monitor	Annually	Annually
Phenolics, Total Recoverable	mg/L	Monitor	Monitor	Annually	Annually
Alkalinity, Phenolphthalein (As CaCO ₃)	mg/L	Monitor	Monitor	Annually	Annually
Total Dissolved Solids	mg/L	Monitor	Monitor	Annually	Annually
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	Monitor	Monitor	Annually	Annually
Alkalinity, Carbonate (As CaCO ₃)	mg/L	Monitor	Monitor	Annually	Annually
Alkalinity, Hydroxide (As CaCO ₃)	mg/L	Monitor	Monitor	Annually	Annually
Alkalinity, Total (As CaCO ₃)	mg/L	Monitor	Monitor	Annually	Annually
1,1,1,2-Tetrachloroethane	mg/L	Monitor	Monitor	Annually	Annually
1,1,1-Trichloroethane	mg/L	0.20	0.16	Annually	Annually
1,1,2,2-Tetrachloroethane	mg/L	Monitor	Monitor	Annually	Annually
1,1,2-Trichloroethane	mg/L	0.005	0.004	Annually	Annually
1,1-Dichloroethane	mg/L	Monitor	Monitor	Annually	Annually
1,1-Dichloroethylene	mg/L	0.007	0.0056	Annually	Annually
1,1-Dichloropropene	mg/L	Monitor	Monitor	Annually	Annually
1,2,3-Trichlorobenzene	mg/L	Monitor	Monitor	Annually	Annually
1,2,3-Trichloropropane	mg/L	Monitor	Monitor	Annually	Annually
1,2,4-Trichlorobenzene	mg/L	0.07	0.056	Annually	Annually
1,2,4-Trimethylbenzene	mg/L	Monitor	Monitor	Annually	Annually
1,2-Dibromo-3-chloropropane	mg/L	Monitor	Monitor	Annually	Annually
1,2-Dibromoethane	mg/L	Monitor	Monitor	Annually	Annually
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/L	0.6	0.48	Annually	Annually
1,2-Dichloroethane	mg/L	0.005	0.004	Annually	Annually
1,2-Dichloropropane	mg/L	0.005	0.004	Annually	Annually
1,3,5-Trimethylbenzene	mg/L	Monitor	Monitor	Annually	Annually
1,3-Dichlorobenzene	mg/L	Monitor	Monitor	Annually	Annually

**TABLE 2
GROUNDWATER QUALITY MONITORING**

Parameter	Units	AQL⁴	AL⁵	Sampling Frequency	Reporting Frequency
1,3-Dichloropropane	mg/L	Monitor	Monitor	Annually	Annually
1,4-Dichlorobenzene (para-Dichlorobenzene)	mg/L	0.075	0.06	Annually	Annually
2,2-Dichloropropane	mg/L	Monitor	Monitor	Annually	Annually
2-Butanone	mg/L	Monitor	Monitor	Annually	Annually
2-Chlorotoluene	mg/L	Monitor	Monitor	Annually	Annually
4-Isopropyltoluene	mg/L	Monitor	Monitor	Annually	Annually
4-Methyl-2-pentanone	mg/L	Monitor	Monitor	Annually	Annually
Acetone	mg/L	Monitor	Monitor	Annually	Annually
Benzene	mg/L	0.005	0.004	Annually	Annually
Benzo (a) pyrene	mg/L	0.0002	0.00016	Annually	Annually
Bromobenzene	mg/L	Monitor	Monitor	Annually	Annually
Bromochloromethane	mg/L	Monitor	Monitor	Annually	Annually
Bromodichloromethane	mg/L	Monitor	Monitor	Annually	Annually
Bromoform	mg/L	Monitor	Monitor	Annually	Annually
Bromomethane	mg/L	Monitor	Monitor	Annually	Annually
Carbon Disulfide	mg/L	Monitor	Monitor	Annually	Annually
Carbon tetrachloride	mg/L	0.005	0.004	Annually	Annually
Chlorobenzene (mono-chlorobenzene)	mg/L	0.1	0.08	Annually	Annually
Chloroethane	mg/L	Monitor	Monitor	Annually	Annually
Chloroform	mg/L	Monitor	Monitor	Annually	Annually
Chloromethane	mg/L	Monitor	Monitor	Annually	Annually
cis-1,2-Dichlorethene	mg/L	Monitor	Monitor	Annually	Annually
cis-1,2-Dichloroethylene	mg/L	0.07	0.056	Annually	Annually
cis-1,3-Dichloropropene	mg/L	Monitor	Monitor	Annually	Annually
di(2-ethylhexyl)adipate	mg/L	0.4	0.32	Annually	Annually
di(2-ethylhexyl)phthalate	mg/L	0.006	0.0048	Annually	Annually
Dibromochloromethane	mg/L	Monitor	Monitor	Annually	Annually
Dibromomethane	mg/L	Monitor	Monitor	Annually	Annually
Dichlorodifluoromethane	mg/L	Monitor	Monitor	Annually	Annually
Ethylbenzene	mg/L	0.7	0.56	Annually	Annually

**TABLE 2
GROUNDWATER QUALITY MONITORING**

Parameter	Units	AQL⁴	AL⁵	Sampling Frequency	Reporting Frequency
Hexachlorobutadiene	mg/L	Monitor	Monitor	Annually	Annually
Hexachlorobenzene	mg/L	0.001	0.0008	Annually	Annually
Hexachlorocyclopentadiene	mg/L	0.05	0.04	Annually	Annually
Iodomethane	mg/L	Monitor	Monitor	Annually	Annually
Isopropylbenzene	mg/L	Monitor	Monitor	Annually	Annually
Methyl-tert-butyl-ether	mg/L	Monitor	Monitor	Annually	Annually
Methylene chloride (Dichloromethane)	mg/L	0.005	0.004	Annually	Annually
Napthalene	mg/L	Monitor	Monitor	Annually	Annually
n-Butylbenzene	mg/L	Monitor	Monitor	Annually	Annually
n-Propylbenzene	mg/L	Monitor	Monitor	Annually	Annually
Pentachlorophenol	mg/L	0.001	0.0008	Annually	Annually
sec-Butylbenzene	mg/L	Monitor	Monitor	Annually	Annually
Styrene	mg/L	0.1	0.08	Annually	Annually
tert-Butylbenzene	mg/L	Monitor	Monitor	Annually	Annually
Tetrachloroethylene (PCE)	mg/L	0.005	0.004	Annually	Annually
Toluene	mg/L	1.0	0.08	Annually	Annually
trans-1,2-Dichloroethylene	mg/L	0.1	0.08	Annually	Annually
trans-1,3-Dichloropropene	mg/L	Monitor	Monitor	Annually	Annually
Trichloroethylene (TCE)	mg/L	0.005	0.004	Annually	Annually
Trichlorofluoromethane	mg/L	Monitor	Monitor	Annually	Annually
Trihalomethanes (Total)	mg/L	0.1	0.08	Annually	Annually
Vinyl acetate	mg/L	Monitor	Monitor	Annually	Annually
Vinyl chloride	mg/L	0.002	0.0016	Annually	Annually
Xylenes, Total	mg/L	10	8	Annually	Annually

TABLE 3
OPERATIONAL INSPECTIONS/MONITORING
Inspections to be performed at the Aircraft Paint Stripping Rack (APSR)

Parameter	Performance Level	Inspection Frequency
APSR Curb integrity	No visible structural damage, breach, erosion, or seepage.	Weekly and after a significant storm or other natural disaster
Surface water diversion structures	No structural damage or no obstructions.	Weekly and after a significant storm or other natural disaster
APSR LDRS Pump integrity	Maintained for good operational conditions.	Weekly and after a significant storm or other natural disaster
APSR pad	No visible structural damage or visible cracks.	Weekly
APSR LDRS	Check for presence of liquids and pump if liquids are present. Record	Daily

	liquid volume removed.	
--	------------------------	--

DRAFT

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:

- 5.1 Aquifer Protection Permit Application
Submitted August 17, 1988
- 5.2 Supplemental Information Submitted in Support of 5.1 above
3/23/90, 5/23/90, 10/29/90, 6/7/91, and 8/7/91
- 5.3 Public Notice Dated
January 10, 1991
- 5.4 Aquifer Protection Permit issued January 23, 1992
- 5.5 Request for Significant Permit Amendment
Received September 17, 2002
- 5.6 Site Characterization Plan dated December 20, 2002
- 5.7 Appendix A Site Characterization Plan Evergreen Air Center Aircraft Paint Stripping Rack Improvement Plans Project Specifications and Contract Documents received February 4, 2003
- 5.8 Public Notice, dated June 12, 2003
- 5.9 Public Hearing, N/A
- 5.10 Responsiveness Summary, N/A
- 5.11 Minor Modification issued November 13, 2003
- 5.12 Appendix A Site Characterization Plan Evergreen Air Center Aircraft Paint Stripping Rack Improvement Plans received July 30, 2007
- 5.13 Minor Amendment issued October 5, 2007
- 5.14 Quality Control Plan for Civil Work at Evergreen Air Center Aircraft Paint Stripping Rack Improvement Plans received November 13, 2007
- 5.15 Aircraft Paint Stripping Rack Site Characterization Report Received February 28, 2008
- 5.16 As-Built Plans for Evergreen Air Center, Inc. Pinal Airpark, Marana, AZ Aircraft Paint Stripping Rack Improvement Plans, prepared by Water Management Consultants, sealed by Alonso Ochoa Vidal (AZ Registered P.E.) 5/7/08.

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 upon the amount of daily influent or discharge of pollutants in gallons per day as established by A.R.S. § 49-242(D).

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

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 at the applicable point of compliance for the facility. Where, at the time of issuance of the permit, an aquifer already exceeds an aquifer water quality standard 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(D), 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.
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. §§ 41-1009, 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 specified by this permit.

6.10 Permit Action: Amendment, Transfer, Suspension & 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, renewed, or revoked for cause, under the rules of the Department.

The permittee shall notify the Groundwater Section 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.

DRAFT

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).

DRAFT