

Jane Dyer Hall
Governor

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

1100 West Washington Street • Phoenix, Arizona 85007
(602) 771-2300 • www.azdeq.state.az.us



Richard W. Smith II
Acting Director

January 3, 2003

Jennifer Bartos
Inscription Canyon Ranch Sanitary
District
P.O. Box 4413
Prescott, AZ 86302

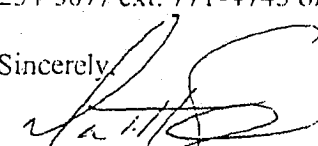
Re: Inscription Canyon Ranch Wastewater Treatment Plant (WWTP)
Signed Aquifer Protection Permit (APP). File No. 103119

Dear Ms. Bartos:

Enclosed is a signed APP, Executive Summary, and Amendment Document for the above referenced facility. The permit conditions shall apply from December 31, 2002 which is the date of the Water Quality Division Director's signature, and shall be valid for the life of the facility. Thank you for your cooperation in protecting the water quality of the State of Arizona.

If you have any questions about this permit or need further assistance, please contact me at (800) 234-5677 ext. 771-4743 or at (602) 771-4743.

Sincerely,


Matthew Hodge, Project Manager
Wastewater, Recharge, & Reuse Unit
Water Permits Section, Water Quality Division

cc: Asif Majeed, Manager, Wastewater, Recharge, & Reuse Unit (letter only)
Robert Casey, Manager, Enforcement Unit, Water Quality Compliance Section
Don Shroyer, Manager, Data Unit, Water Quality Compliance Section
Marcy Mullins, Reuse Permit Officer
Lynne Dekarske, Administrative Assistant, Water Permits Section (letter only)
Jason Williamson, Pivotal Utility Management
Doug Zuber, Harvard Investments
Robert Sander, Ammtech Consulting

MWR03:0010

Northern Regional Office
1515 East Cedar Avenue • Suite F • Flagstaff, AZ 86004
(928) 779-0313

Southern Regional Office
400 West Congress Street • Suite 433 • Tucson, AZ 85701
(520) 628-6773

**SIGNIFICANT AMENDMENT
TO AQUIFER PROTECTION PERMIT NO. P103119**

Facility Name: Inscription Canyon Ranch Wastewater Treatment Plant (WWTP)

Owner & Operator:

ICR Sanitary District
c/o Improvement District Services
219 Grove Ave.
Prescott, AZ 86301
(928) 443-9484

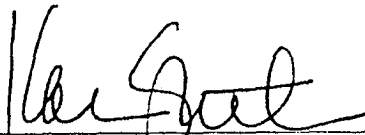
Lee Hixson
P. O. Box 4413
Prescott, AZ 86302
(928) 300-4375 pager (928) 639-8725

List of Amendments to Aquifer Protection Permit P-103119

1. Section 2.1 (Old permit Part II A.1) - Change text to change the WWTP design capacity from 46,000 gallons per day (gpd) to 455,500 gpd and change design from sequencing batch reactors to modified extended aeration. ?
2. Section 2.1 - Change language to include classification of B+ reclaimed water.

Other amendments include change to new boiler plate language.

This amendment shall become effective on the date of signature and shall be valid for the duration of the permit provided that the facility is constructed, operated, and maintained pursuant to all the conditions of this permit, according to the design and operational information documented or referenced in this permit, and such that Aquifer Water Quality Standards are not violated.



Karen Smith, Director
Water Quality Division
Arizona Department of Environmental Quality

Signed this 21ST day of DECEMBER, 2002

EXECUTIVE SUMMARY
AQUIFER PROTECTION PERMIT NO. 103119

Facility Name:

Inscription Canyon Ranch Wastewater Treatment Plant (WWTP)

Facility Location:

Inscription Canyon Ranch WWTP is located near Prescott, Arizona, in Yavapai County, over groundwater of the Prescott Active Management Area (AMA), in Township 16 North, Range 3 West, Section 28, of the Gila and Salt River Base Line and Meridian.

Regulatory Status:

The facility is currently operating under an existing APP permit and a reuse permit.

Facility Description:

↙ The permittee is authorized to operate the WWTP with a maximum monthly average flow of 455,000 gallons per day (gpd). The treatment process consists of sequencing batch reactors (SBRs) with flow equalization, sludge de-watering, and chlorine disinfection. Treated effluent will be stored in lined storage basins and reused by irrigation on two landscaped sites of 49.9 acres and 21 acres of landscaped areas located adjacent to the WWTP site, as regulated under Reuse Permit No. R103119. Waste sludge will be de-watered, bagged, and disposed of at a State approved landfill.

Amendment:

This amendment is for the Inscription Canyon Ranch Sanitary District (ICRSD) to expand the WWTP permitted capacity of 46,000 gallons per day (gpd) to 455,500 gpd.

Best Available Demonstrated Control Technology (BADCT):

The WWTP process will employ disinfection to reduce fecal coliform levels to less than 1000 CFU/100 ml. All the units of the WWTP will be constructed with reinforced concrete. The effluent holding pond at the WWTP site will be lined with a 16-inch clay liner. The effluent storage ponds at the reuse site will be lined with 40 mil Hypalon liners. All the effluent will be reused on two sites located adjacent to the WWTP.

Compliance with Aquifer Water Quality Standards (AWQS):

The facility performs discharge monitoring and is required to be in compliance with AWQS. As a result the AWQS are not expected to be violated at the at the point of compliance.

Point of Compliance:

The point of compliance well is located at Latitude: 34° 44' 45" N Longitude: 112° 34' 38" W

Storm/Surface Water Considerations:

The WWTP is outside the 100 year flood zone.

Zoning Requirements:

The permittee has provided the zoning information required pursuant to A.A.C. R18-9-A201(A)(2)(c).

Financial Capability:

The permittee has provided the financial capability information required pursuant to Rule R18-9-A203.

Technical Capability:

The permittee has provided the technical capability information required pursuant to Rule R18-9-A202

STATE OF ARIZONA
AQUIFER PROTECTION PERMIT NO. P- 103119
PLACE ID 7377.1 TF 25663

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, Inscription Canyon Ranch Sanitary District is hereby authorized to operate the Inscription Canyon Ranch Wastewater Treatment Plant located near Prescott, Arizona, in Yavapai County, over groundwater of the Prescott Active Management Area, in Township 16 North, Range 3 West, Section 28, 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 provided that the facility is constructed, operated, and maintained:

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 are not violated at the applicable point(s) of compliance set forth below.

1.1 PERMITTEE INFORMATION

Facility Name:	Inscription Canyon Wastewater Treatment Plant	
Permittee:	Mailing Address:	Facility's Street Address:
Inscription Canyon Ranch Sanitary District	P. O. Box 4413 Prescott, AZ 86302	13868 Grey Bear Prescott, AZ 86305
Facility Contact:	Lee Hixson	
Emergency Telephone Number:	(928) 300-4375	
Latitude: 34° 44' 45" North	Longitude: 112° 34' 38" West	
Legal Description:	Township 16 N, Range 3 E, Section 28	

1.2 AUTHORIZING SIGNATURE

_____/s/
Karen L. Smith, Director
Water Quality Division
Arizona Department of Environmental Quality
Signed this 30th day of July, 1997

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 the WWTP with a maximum monthly average flow of 455,000 gallons per day (gpd). The treatment process consists of flow equalization, followed by modified extended aeration process with denitrification, clarification, sludge holding digestion, and chlorine disinfection. Treated effluent will be stored in lined storage ponds and reused under a valid Reclaimed Water Permit under A.A.C. title 18, Chapter 9, Article 7. Waste sludge will be treated, thickened, hauled and disposed of at a State approved landfill.

The reclaimed water is classified as B+ and is in conformance with the Reclaimed Water Standards (A.A.C. Title 18, Chapter 11, article 3).

This amendment is to increase the current capacity of the WWTP of 46,000 gpd to 455,500 gpd, change design from sequencing batch reactors to modified extended aeration, and change language to include classification of reclaimed water.

The materials authorized to be disposed of through the wastewater treatment plant are typical household sewage and pre-treated commercial wastewater and shall not include motor oil, gasoline, paints, varnishes, hazardous wastes, solvents, pesticides, fertilizers or other materials not generally associated with toilet flushing, food preparation, laundry facilities and personal hygiene.

The site includes the following permitted discharging facilities:

Facility	Latitude	Longitude
Treatment Plant	34° 44' 45" N	112° 34' 38" W

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

The Wastewater Treatment Plant is designed to meet the treatment performance criteria for new facilities as specified in Arizona Administrative Code R18-9-B204.

2.2.1 Engineering Design

The WWTP process will employ disinfection to reduce fecal coliform levels to less than 800 CFU/100 ml for the single sample maximum and 200 CFU/100 ml for the 4 out of 7 samples. All the units of the WWTP will be constructed utilizing either fiberglass and concrete vessels. The effluent storage ponds at the reclaimed site will be lined with 40 mil Hypalon liners (or approved equal). All the effluent will be reclaimed for irrigation on a golf course located approximately 3-4 of a mile from the WWTP.

2.2.2 Site-specific Characteristics

Not Applicable.

2.2.3 Pre-Operational Requirements

Not applicable, because the WWTP is already in operation.

2.2.4 Operational Requirements

1. A copy of the new Operation and Maintenance (O & M) manual shall be maintained at the WWTP site at all times and shall be available upon request during inspections by ADEQ personnel.
2. The pollution control structures shall be inspected for the items listed in Section 4.0, TABLE III - FACILITY INSPECTION (OPERATIONAL MONITORING).
3. If any damage to the pollution control structures is identified during inspection, proper repair procedures shall be performed. All repair procedures and material(s) used shall be documented on the Self-Monitoring Report Form submitted quarterly to the ADFQ Water Quality Compliance Section.

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

The permittee is authorized to operate the Inscription Canyon Ranch Wastewater Treatment Plant with a maximum monthly average flow of 455,500 gpd.

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

The Point(s) of Compliance is (are) established by the following monitoring location(s):

P.O.C. Locations	Latitude	Longitude
North corner of WWTP	34° 44' 45" N	112° 34' 38" W

Monitoring requirements for each P.O.C. are listed in Section 4.0, TABLE II.

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)]

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 permittee shall monitor the wastewater according to Section 4.0, TABLE I. A representative sample of the wastewater shall be collected at the point of discharge to injection well site at:

Identification	Latitude	Longitude
Point of Discharge into lined storage basins.	34° 44' 45" N	112° 34' 38" W

2.5.2 Facility Operational Monitoring

Operational monitoring inspections shall be conducted according to Section 4.0, TABLE III

- a. 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 on the Self-Monitoring Report Form (SMRF) submitted quarterly to the ADFQ Water Quality Compliance. If none of the conditions occur, the report shall say "no event" for a particular reporting period. If the facility is not in operation, the permittee shall indicate that fact in the SMRF.
- b. The permittee shall submit data required in Section 4.0, TABLE III regardless of the operating status of the facility unless otherwise approved by the Department or allowed in this permit.

2.5.3 Groundwater Monitoring and Sampling Protocols

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

2.5.4 Surface Water Monitoring and Sampling Protocols

Not Applicable. No surface water monitoring is required.

2.5.5 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
1740 W. Adams Street, Room 203 North
Phoenix, AZ 85007
Phone: (602) 364-0720

2.5.6 Installation and Maintenance of Monitoring Equipment

Monitoring equipment required by this permit shall be installed and maintained so that representative wastewater, groundwater, soil, water, or sludge samples can be collected. Should new groundwater wells be determined to be necessary, the construction details shall be submitted to the ADEQ Water Permits Section for approval.

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 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 limit (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 followup 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.

2.6.2 Exceeding of Alert Levels/Performance Levels

2.6.2.1 Exceeding of Performance Levels (PL) Set for Operational Conditions

1. If the operational PL set in Section 4.3, TABLE III has been exceeded the permittee shall
 - a. Notify the ADEQ Water Quality Compliance Section within five (5) days of becoming aware of a violation of any permit condition.
 - b. Submit a written report within thirty (30) days after becoming aware of a violation of a permit condition. The report shall document all of the following:
 1. A description of the violation and its cause;
 2. 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;
 3. any action taken or planned to mitigate the effects or the violation, or the spill, or to eliminate or prevent recurrence of the violation;
 4. 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; and
 5. any malfunction or failure of pollution control devices or other equipment or process.
2. The facility is no longer on alert status once the operational indicator no longer indicates that an PL 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 (AL) Set for Discharge Monitoring

1. If an AL set in Section 4.0, TABLE I has been exceeded, the permittee shall conduct verification sampling within 24 hours of becoming aware of the alert status.
2. If the verification sampling confirms that the AL has been exceeded, the permittee shall immediately investigate to determine the cause of the AL being exceeded. 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 AL being exceeded.
 - c. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences.
3. The permittee shall initiate actions identified in the approved contingency plan referenced in Part 5.0 and specific contingency measures identified in Part 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.
4. Within thirty (30) days after confirmation of an AL being exceeded, the permittee shall submit the laboratory results to the ADEQ Water Quality Compliance Section, Data Unit, 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 require additional monitoring, increased frequency of monitoring, amendments to permit conditions or other actions.

2.6.2.3 Exceeding of Alert Levels in Groundwater Monitoring**2.6.2.3.1 Alert Levels for Indicator Parameters**

Not Applicable.

2.6.2.3.2 Alert Levels for Pollutants with Numeric Aquifer Water Quality Standards

Not Applicable.

2.6.2.3.3 Alert Levels to Protect Down-gradient Users from Pollutants Without Numeric Aquifer Water Quality Standards

Not Applicable.

2.6.3 Discharge Limitations (DL) Violations

1. If a DL set in Section 4.0, TABLE I has been exceeded, the permittee shall conduct verification sampling within 24 hours of becoming aware of a DL being exceeded.

2. If verification sampling confirms that the DL 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;
3. 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, 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.
4. Upon review of the submitted report, the Department may require additional monitoring, increased frequency of monitoring, amendments to permit conditions or other actions.

2.6.4 Aquifer Quality Limit (AQL) Violation

1. If an AQL set in Section 4.0, TABLE II has been exceeded, the permittee shall conduct verification sampling within 5 days of becoming aware of an AQL being exceeded.
2. If verification sampling confirms that the AQL is violated for any parameter, the permittee shall increase the frequency of monitoring to 'Daily', 'Weekly', and 'Monthly' for constituents that have a permit monitoring frequency of 'Weekly', 'Monthly', and 'Quarterly', 'Semi-Annual' or 'Annual' respectively. 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. 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 require additional monitoring, increased frequency of monitoring, amendments to permit conditions or other actions.

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 that could pose an endangerment to public health or the environment.

2.6.5.2 Spills of Hazardous Substances or Toxic Pollutants

In the event of any accidental spill or unauthorized discharge (A.R.S. § 49-201(12)) of suspected hazardous substances (A.R.S. § 49-201(18)) or toxic pollutants (A.R.S. § 49-243(J)) on the facility site, the permittee shall promptly isolate the area and attempt to identify the spilled 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. Spilled materials, absorbents, and contaminated media generated during emergency response shall be removed and disposed of according to applicable federal, state and local regulations. The emergency response coordinator shall notify the ADEQ Emergency Response Unit at (602) 771-2300 immediately upon discovering a release of a hazardous substance in excess of a reportable quantity in accordance with 40 CFR Part 302, et seq

2.6.5.3 Discharge of Non-hazardous Materials

In the event of any unauthorized discharge 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 Northern Regional Office, 1515 E. Cedar Avenue, Suite F, Flagstaff, AZ 86004, Tel: (520) 779-0313 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 described in Sections 2.6.5.2 and 2.6.5.3 to ADEQ Northern Regional Office, 1515 E. Cedar Avenue, Suite F, Flagstaff, AZ 86004, Tel: (520) 779-0313 within thirty 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 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 Water Permits 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.
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 (SMRF)

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 Sections 4.0 list the parameters to be monitored and the frequency for reporting results for groundwater compliance monitoring. Monitoring methods shall be recorded on the SMRFs.
4. In addition to the SMRF, the information contained in Section 6.9.3 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 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 data and time;
6. names of samples;
7. static water level in monitor well prior to sampling;

8. sampling method;
9. purging volume;
10. indicator parameters including field conductance ($\mu\text{mhos/cm}$), field temperature ($^{\circ}\text{C}$), and field pH (standard units);
11. date of analysis;
12. preservation and transportation procedures;
13. the name of the analytical facility, and;
14. any other information as specified by this permit to be entered in the log book.

2.7.3 Permit Violation and Alert Level Status Reporting

1. The permittee shall notify the Water Quality Compliance Section, Enforcement Unit 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.
2. The permittee shall submit a written report to the Water Quality Compliance Section, Enforcement Unit 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 complete the Self-Monitoring Report Form provided by the Department to reflect facility inspection requirements designated in Section 4.0, TABLE III and submit to the ADEQ, Water Quality Compliance quarterly along with other reports required by this permit. Facility inspection reports shall be submitted no less frequently than quarterly, regardless of operational status.

The permittee shall submit the results of water quality testing for total nitrogen, fecal coliform, turbidity and flow volumes to any of the following in accordance with A.A.C. R18-9-703(C)(2)(c):

1. Any reclaimed water agent who has contracted for delivery of reclaimed water from the permittee;
2. Any end user who has not waived interest in receiving this information.

2.7.5 Reporting Location

All SMRF's 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) 771-4681

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

Water Quality Compliance Section, Enforcement Unit
 Mail Code: 5415B-1
 1110 W. Washington Street
 Phoenix, AZ 85007
 Phone (602) 771-4614

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

Arizona Department of Environmental Quality
 Water Permits 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

2.7.7 Changes to Facility Information in Section 1.0

The Water Permits 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. 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.
3. Notify ADEQ with a monthly facility Status Report describing the activities conducted on the WWTP to correct the problem

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, 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)]

The permittee shall give written notice of closure to the Water Quality Compliance Section before closing, or before ceasing use of a facility addressed under this permit if the cessation is projected to last more than three years.

Within 90 days following notification of closure, the permittee shall submit for approval to the Water Permits Section, a detailed Closure Plan which meets the requirements of A.R.S. § 49-252 and A.A.C. 18-9-A209(B)(1)(a).

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.

Upon completion of closure activities, the permittee shall give written notice to the Water Permits Section indicating that the approved Closure Plan has been implemented fully. 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. Remedial or mitigative measures are necessary to achieve compliance with Title 49, Ch. 2.
- 5. Further action is necessary to meet property use restrictions.

2.9.1 Closure Plan

A specific closure plan is not required at the time of permit issuance.

2.9.2 Closure Completion

Not required at the time of permit issuance.

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 Water Permits Section.

In the event clean closure cannot be achieved pursuant to A.R.S. § 49-252, the permittee shall submit for approval to the Water Permits 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(29) 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 is not required at the time of permit issuance.

2.10.2 Post-Closure Completion

Not required at the time of permit issuance.

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4.0 TABLES OF MONITORING REQUIREMENTS

TABLE I
DISCHARGE MONITORING

Sampling Point Number	Sampling Point Identification	Latitude		Longitude	
I	Point of discharge into storage basins.	34° 44' 45" N		112° 34' 38" W	
Parameter	AL ¹	DL ²	Units	Sampling Frequency	Reporting Frequency
Flow: Daily	Reserved	Reserved ³	N/A	Daily ⁴	Quarterly
Flow: Average Monthly	0.433	0.455	MGD	Monthly ⁵	Quarterly
Fecal Coliform (single sample maximum)	Reserved	800	CFU ⁶	Daily ⁷	Quarterly
Fecal Coliform (4 out of 7 samples)	Reserved	200	CFU	Weekly (Calculated)	Quarterly
Total Nitrogen ⁸	8.0	10.0 ⁹	mg/l	Monthly	Quarterly
Nitrate as N	8.0	10.0	mg/l	Monthly	Quarterly
Nitrite as N	0.8	1.0	mg/l	Monthly	Quarterly
Total Kjeldahl Nitrogen (TKN)	Reserved	Reserved	mg/l	Monthly	Quarterly

¹ AL = Alert Level.

² DL = Discharge Limit.

³ Reserved = No limits are specified.

⁴ Flow shall be measured using a continuous recording flow meter.

⁵ Monthly = Calculated value = Average of daily flows in a month.

⁶ CFU = Colony Forming Units/ 100 ml

⁷ Daily = Every day on which a sample can practicably be obtained and delivered in sufficient time for proper analysis, provided that no less than four samples in each calendar week are obtained and analyzed.

⁸ Total Nitrogen is equal to nitrate as N plus nitrite as N plus TKN.

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

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

None required at this time.

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE 1
DISCHARGE MONITORING (Continued)

Parameter	AL	DL	Units	Sampling Frequency	Reporting Frequency
Metals (Total):					
Antimony	0.0048	0.006	mg/l	Quarterly	Quarterly
Arsenic	0.04	0.05	mg/l	Quarterly	Quarterly
Barium	1.60	2.00	mg/l	Quarterly	Quarterly
Beryllium	0.0032	0.004	mg/l	Quarterly	Quarterly
Cadmium	0.004	0.005	mg/l	Quarterly	Quarterly
Chromium	0.08	0.1	mg/l	Quarterly	Quarterly
Cyanide (As free cyanide)	0.16	0.2	mg/l	Quarterly	Quarterly
Fluoride	3.2	4.0	mg/l	Quarterly	Quarterly
Lead	0.04	0.05	mg/l	Quarterly	Quarterly
Mercury	0.0016	0.002	mg/l	Quarterly	Quarterly
Nickel	0.08	0.1	mg/l	Quarterly	Quarterly
Selenium	0.04	0.05	mg/l	Quarterly	Quarterly
Thallium	0.0016	0.002	mg/l	Quarterly	Quarterly

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE I
DISCHARGE MONITORING (continued)

Parameter	AL	DL	Units	Sampling Frequency	Reporting Frequency
Volatile Organic Compounds (VOCs): ¹⁰					
Benzene	4.0	5.0	ug/l	Quarterly	Quarterly
Carbon tetrachloride	4.0	5.0	ug/l	Quarterly	Quarterly
o-Dichlorobenzene	480.0	600.0	ug/l	Quarterly	Quarterly
para-Dichlorobenzene	60.0	75.0	ug/l	Quarterly	Quarterly
1,2-Dichloroethane	4.0	5.0	ug/l	Quarterly	Quarterly
1,1-Dichloroethylene	5.6	7.0	ug/l	Quarterly	Quarterly
cis-1,2-Dichloroethylene	56.0	70.0	ug/l	Quarterly	Quarterly
trans-1,2-Dichloroethylene	80.0	100.0	ug/l	Quarterly	Quarterly
Dichloromethane	4.0	5.0	ug/l	Quarterly	Quarterly
1,2-Dichloropropane	4.0	5.0	ug/l	Quarterly	Quarterly
Ethylbenzene	560.0	700.0	ug/l	Quarterly	Quarterly
Monochlorobenzene	80.0	100.0	ug/l	Quarterly	Quarterly
Styrene	80.0	100.0	ug/l	Quarterly	Quarterly
Tetrachloroethylene	4.0	5.0	ug/l	Quarterly	Quarterly
Toluene	800.0	1000.0	ug/l	Quarterly	Quarterly
Trihalomethanes (total) ¹¹	80.0	100.0	ug/l	Quarterly	Quarterly
1,1,1-Trichloroethane	160.0	200.0	ug/l	Quarterly	Quarterly
1,2,4 - Trichlorobenzene	56.0	70.0	ug/l	Quarterly	Quarterly
1,1,2 - Trichloroethane	4.0	5.0	ug/l	Quarterly	Quarterly
Trichloroethylene	4.0	5.0	ug/l	Quarterly	Quarterly
Vinyl Chloride	1.6	2.0	ug/l	Quarterly	Quarterly
Xylenes (Total)	8000.0	10,000.0	ug/l	Quarterly	Quarterly

¹⁰ All units are in micrograms per liter (ug/l) except as otherwise specified.

¹¹ Total Trihalomethanes comprises of Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane.

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE II
GROUNDWATER MONITORING
NOT REQUIRED

TABLE III
FACILITY INSPECTION (OPERATIONAL MONITORING)

Pollution Control Structures/Parameter	Performance Levels	Inspection Frequency
Pump Integrity	Good Working Condition	Weekly
Treatment Plant Components	Good Working Condition	Weekly

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 July 30, 1997.
- 2 Public Notice dated October 4, 1996.
- 3 APP Significant Amendment Application dated November 27, 2001.
- 4 Public Notice for amendment, dated September 11, 2002.
- 5 Public Hearing, dated N/A.
- 6 Responsiveness Summary, dated N/A.

6.0 GENERAL CONDITIONS AND RESPONSIBILITIES**6.1 Annual Registration Fees**

The permittee shall 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). This fee is payable to ADEQ by January 31, each year.

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

The permittee shall 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 modification, 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 Severability [A.R.S. § 49-243(K)(8)]

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.

6.5 Proper Operation and Maintenance [A.R.S. § 49-243(K)(8)]

The permittee shall, at all times, properly operate and maintain all facilities, treatment processes, and discharge control systems which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

6.6 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.

6.7 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.

6.8 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.

6.9 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.

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The permittee shall retain records of all monitoring information, including copies of all reports required by this permit and records of all data used to complete the application for this permit, for a period of 10 years from the date of the sample, measurement report, or application. This period may be extended by request of the Director at any time.
3. At a minimum, records of monitoring information shall include:
 - a. The date, time, and exact place of sampling or measurements
 - b. The individual(s) who performed the sampling or measurements
 - c. The date(s) analyses were performed
 - d. The individual(s) who performed the analyses
 - e. The analytical techniques or methods used
 - f. The results of such analyses
 - g. The chain of custody records, and
 - h. Any field notes relating to the information described in (a) - (g) above.

6.10 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.

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

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, a 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. In so doing, the Department representative may:

1. Enter upon the operator's premises where a regulated facility or activity is located or conducted, or locations where records must be kept under the conditions of this permit.
2. Have access to and copy, at reasonable times, any records required to be kept under the conditions of this permit.
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit.
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance, any substances or parameters at any location.
5. Take photographs or video tape.
6. Take other actions reasonably necessary to determine compliance with Aquifer Protection Permit statutes or rules or the terms and conditions of this permit.

6.12 Duty to Modify [A.R.S. § 49-243(K)(8)]

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

6.13 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 filing of a request by the permittee for a permit action does not stay or suspend the effectiveness of any existing permit condition. The Director shall issue a public notice of all proposed permit actions pursuant to A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213.

6.13.1 Permit Reopen

The Director may reopen this permit and amend it pursuant to A.A.C. R18-9-A211.

6.13.2 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 will be approved until the applicant complies with all transfer requirements as specified in A.A.C. R18-9-A212(B) and (C).

The permittee shall notify the Water Permits 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

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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.