

ADEQ Inventory No.	106170	Permit No.	AZ0025861
LTF No.	94671	Place ID No.	138082

AUTHORIZATION TO DISCHARGE UNDER THE ARIZONA POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of Arizona Revised Statutes (A.R.S.) Title 49, Chapter 2, Article 3.1; the Federal Water Pollution Control Act, (33 U.S.C. §1251 *et seq.*, as amended), and Arizona Administrative Code (A.A.C.) Title 18, Chapter 9, Articles 9 and 10, and amendments thereto, to protected surface waters in Arizona that are WOTUS.

NXP USA, Inc.
56th Street and Earll Drive WQARF Site Groundwater Treatment System
1300 N. Alma School Rd.
Chandler, AZ 85224

is authorized to discharge treated groundwater from the groundwater remediation treatment facility located on the north side of the Salt River Project (SRP) Grand Canal, east of North 32nd Street and north of State Route Loop 202. Discharge is to the SRP Grand Canal, a Phoenix Area Canal, in the Middle Gila River Basin at:

Outfall No.	Latitude	Longitude	Legal
001	33° 27' 39.0" N	112° 00' 32.6" W	Township 1 N, Range 3 E, Section 1

in accordance with effluent limitations, monitoring requirements and other conditions set forth herein, and in the attached "Standard AZPDES Permit Conditions."

Annual Registration Fee [A.R.S. 49-255.01 and A.A.C. R18-14-104]

The annual registration fee for this permit is payable to ADEQ each year. For the purposes of the annual fees, this permit is a Minor permit. If the facility is not yet constructed or is incapable of discharge at this time, the permittee may be eligible for reduced fees under rule. Send all correspondence requesting reduced fees to the Water Quality Division of ADEQ. Please reference the permit number, LTF number and why reduced fees are requested under rule.

This permit shall become effective on _____, 2022.

This permit and the authorization to discharge shall expire on _____, 2027.

Signed _____.

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

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PART I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**A. Effluent Limitations and Monitoring Requirements**

- The Permittee shall limit and monitor discharges from Outfall 001 as specified in Table 1 which follows. These requirements are based on a daily maximum flow of 0.72 million gallons per day (MGD).

Table 1. Effluent Limitations and Monitoring Requirements

Parameter	Maximum Allowable Discharge Limitations (1)(2)				Monitoring Requirement (4)	
	Mass Limits (3)		Concentration Limits			
	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	Monitoring Frequency	Sample Type
Discharge Flow (MGD)	REPORT (4)	0.72 MGD	---	---	Continuous	Metered
Arsenic – dilution (4a)	51 g/day	100 g/day	19 µg/L	37 µg/L	1x/Month	Discrete
Arsenic “Downstream Samples” - Grand Canal (5)	---	---	REPORT	REPORT	1x /Month	Discrete
Arsenic – no dilution (4b)	27 g/day	55 g/day	10 µg/L	20 µg/L	1x/Month	Discrete
Total Trihalomethane (6)	---	218 g/day	---	80 µg/L	1x/Month	Discrete
1,2-cis-Dichloroethylene (c-1,2-DCE)	---	191 g/day	---	70 µg/L	1x/Month	Discrete
Tetrachloroethylene (PCE)	---	13.6 g/day	---	5.0 µg/L	1x/Month	Discrete
Toluene	---	2,725 g/day	---	1,000 µg/L	1x/Month	Discrete
Trichloroethylene (TCE)	13.6 g/day	19.1 g/day	5.0 µg/L	7.0 µg/L	1x/Month	Discrete
Nitrite	2.7 g/day	4.1 g/day	1.0 mg/L	1.5 µg/L	1x/Month	Discrete
Uranium, Total (as Ur)	82 g/day	160 g/day	30 µg/L	60 µg/L	1x/Month	Discrete
pH (8)	Not less than 6.5 standard units (S.U.) nor greater than 9.0 S.U.				1x / Month	Discrete

Footnotes

- mg/L = milligrams per liter; µg/L = micrograms per liter; MGD = million gallons per day; N/A = not applicable
- All metal discharge limits are for total recoverable metals.
- Mass values are to be calculated and reported using the following formulas: 1) Mass in kilograms per day = 3.785 x flow in MGD x concentration in mg/L, and 2) mass in grams per day = 3.785 x flow in MGD x concentration in µg/L.
- Monitoring and reporting for arsenic is based upon the conditionally approved mixing zone. See Part III.A. of the permit.
 - The arsenic limit with dilution is applicable when the Verde River is not the dominant source water in the Grand Canal.
 - The arsenic limit with no dilution is applicable when the Verde River is the dominant source water in the Grand Canal.
 - When reporting for arsenic on the discharge monitoring report, enter NODI “9” for the arsenic limit that does not apply for that monitoring period.
- Receiving arsenic downstream of the discharge point (“downstream samples”) shall be taken from the approximate midpoint of the 32nd Street Bridge over the Grand Canal, approximately 1,400 feet downstream of the discharge point (at the downstream edge of the mixing zone). Monitoring shall be conducted when reporting under Footnote 4.a. of this Table. Enter NODI “9” when monitoring is not required.

- 6 The total trihalomethane standard is exceeded when the sum of these four compounds (bromodichloromethane, bromoform, chloroform, and dibromochloromethane) exceeds 80 µg/L as a rolling annual average.
- 7 pH must be measured at the time of sampling and do not require use of a certified laboratory. Measurements must be obtained in accordance with the applicable method and must meet all method quality assurance/quality control requirements to be considered valid data.

B. Trace Substance Monitoring

1. The permittee shall monitor discharges from Outfall 001 as specified in Table 2. Monitoring results above the Assessment Levels (ALs) listed below do not constitute a permit violation, but may trigger evaluation of Reasonable Potential (RP) by ADEQ. The permittee shall use an approved analytical method with a Limit of Quantitation (LOQ) lower than the AL values as described in Part II.A.4.

Table 2. Assessment Level Monitoring

Parameter	Assessment Levels (1) (2)		Monitoring Requirements (3)	
	Monthly Average	Daily Maximum	Monitoring Frequency	Sample Type
Total Chromium (3)	Report [µg/L]	Report [µg/L]	1x / 6 months	Discrete
Chromium VI (3)	21 µg/L	31 µg/L	1x / 6 months	Discrete
Cyanide	200 µg/L	290 µg/L	1x / 6 months	Discrete
1,2-Dichloroethane (DCA) (Ethylene Dichloride)	5 µg/L	7 µg/L	1x / 6 months	Discrete

Footnotes

- 1 Concentration values are calculated based on Arizona Water Quality Standards. Monitoring and reporting required.
- 2 All metals effluent Assessment Levels are for total recoverable metals, except for chromium VI, for which the listed Assessment Levels are dissolved.
- 3 If total chromium exceeds 21 µg/L, the permittee must conduct sampling for chromium VI for the remainder of the permit. Otherwise, monitoring for chromium VI is not required.

C. Effluent Characterization Testing

1. The permittee shall monitor to characterize the facility's effluent for the parameters listed in Tables 3.a – e.. No limits or ALs are established, but the LOQ must be low enough to allow comparison of the results to the applicable water quality standards (WQS). If a LOQ below the WQS cannot be achieved, then the permittee shall use the method expected to achieve the lowest LOQ, as defined in Appendix A of this permit. Samples are to be representative of any seasonal variation in the discharge:

Table 3a. Effluent Characterization Testing—General Chemistry and Microbiology

Parameter	Reporting Units	Monitoring Requirements	
		Monitoring Frequency (1)	Sample Type
Nitrate/Nitrite (as N)	mg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Nitrogen, Total Kjeldahl (TKN)	mg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
pH (2)	S.U.	1x/year in years 2023,2024,2025 of permit term	Discrete
Total Dissolved Solids (TDS)	mg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Temperature (2)	°Celsius	1x/year in years 2023,2024,2025 of permit term	Discrete

Footnotes

- 1 If more frequent monitoring of any of these parameters is required by another part of this permit, those sampling results may be used to satisfy Table 3.a. requirements.
- 2 Temperature and pH must be measured at the time of sampling and do not require use of a certified laboratory. Measurements must be obtained in accordance with the applicable method and must meet all method quality assurance/quality control requirements to be considered valid data.

Table 3b. Effluent Characterization Testing—Selected Metals, Trace Substances and

Parameter (1)	Reporting Units	Monitoring Requirements	
		Monitoring Frequency (2)	Sample Type
Antimony	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Arsenic	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Beryllium	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Boron (4)	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Cadmium	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Chromium (3)	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Chromium VI (3)	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Copper	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Fluoride (4)	mg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Lead	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Mercury	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Nickel	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Selenium	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Silver	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Thallium	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Zinc	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Cyanide	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete

Footnotes

- 1 All metals analyses shall be for total recoverable metals, except chromium VI, which is dissolved.
- 2 If more frequent monitoring of any of these parameters is required by another part of this permit, those sampling results may be used to satisfy Table 3.b. requirements.
- 3 If total chromium exceeds 21 µg/L, the permittee must conduct sampling for chromium VI for the remainder of the permit. Otherwise, monitoring for chromium VI is not required.
- 4 A regulatory mixing zone has been approved for boron and fluoride. See Part III of the permit for mixing zone details and Part III.C. of the permit for ambient monitoring requirements.

Table 3c. Effluent Characterization Testing—Selected Volatile Organic Compounds

Parameter	Reporting Units	Monitoring Requirements	
		Monitoring Frequency	Sample Type
Acrolein	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Acrylonitrile	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Benzene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Bromoform	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Carbon tetrachloride	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Chlorobenzene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Chlorodibromomethane	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Chloroethane	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
2-chloroethylvinyl ether	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Chloroform	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Dichlorobromomethane	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
1,2-dichloroethane	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Trans-1,2-dichloroethylene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
1,1-dichloroethylene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
1,2-dichloropropane	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
1,3-dichloropropylene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Ethylbenzene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Methyl bromide	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Methyl chloride	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Methylene chloride	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
1,1,2,2-tetrachloroethane	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Tetrachloroethylene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Toluene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
1,1,1-trichloroethane	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
1,1,2-trichloroethane	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Trichloroethylene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Vinyl chloride	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete

Table 3d. Effluent Characterization Testing—Selected Acid Extractable Compounds

Parameter	Reporting Units	Monitoring Requirements	
		Monitoring Frequency	Sample Type
P-chloro-m-cresol	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
2-chlorophenol	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
2,4-dichlorophenol	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
2,4-dimethylphenol	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
4,6-dinitro-o-cresol	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
2,4-dinitrophenol	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
2-nitrophenol	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
4-nitrophenol	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Pentachlorophenol	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Phenol	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
2,4,6- trichlorophenol	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete

Table 3e. Effluent Characterization Testing—Selected Base Neutral Compounds

Parameter	Reporting Units	Monitoring Requirements	
		Monitoring Frequency	Sample Type
Acenaphthene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Anthracene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Benzidine	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Benzo(a)anthracene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Benzo(a)pyrene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
3,4 benzofluoranthene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Benzo(k)fluoranthene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Bis (2-chloroethoxy) methane	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Bis (2-chloroethyl) ether	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Bis(2-chloroisopropyl) ether	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Bis (2-ethylhexyl) phthalate	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Butyl benzyl phthalate	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
2-chloronaphthalene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
4-chlorophenyl phenyl ether	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Chrysene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Di-n-butyl phthalate	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Di-n-octyl phthalate	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Dibenzo(a,h)anthracene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
1,2-dichlorobenzene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
1,4-dichlorobenzene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
3,3-dichlorobenzidine	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Diethyl phthalate	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
2,4-dinitrotoluene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
2,6-dinitrotoluene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
1,2-diphenylhydrazine	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Fluoranthene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Fluorene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Hexachlorobenzene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Hexachlorobutadiene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Hexachlorocyclopentadiene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Hexachloroethane	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Indeno(1,2,3-cd)pyrene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Isophorone	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete

Parameter	Reporting Units	Monitoring Requirements	
		Monitoring Frequency	Sample Type
Naphthalene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Nitrobenzene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
N-nitrosodi-n-propylamine	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
N-nitrosodimethylamine	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
N-nitrosodiphenylamine	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Phenanthrene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
Pyrene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete
1,2,4-trichlorobenzene	µg/L	1x/year in years 2023,2024,2025 of permit term	Discrete

D. Surface Water Quality Standards

1. The discharge shall be free from pollutants in amounts or combinations that:
 - a. Settle to form bottom deposits that inhibit or prohibit the habitation, growth or propagation of aquatic life;
 - b. Cause objectionable odor in the area in which the surface water is located;
 - c. Cause off-taste or odor in drinking water;
 - d. Cause off-flavor in aquatic organisms;
 - e. Are toxic to humans, animals, plants or other organisms;
 - f. Cause the growth of algae or aquatic plants that inhibit or prohibit the habitation, growth or propagation of other aquatic life or that impair recreational uses;
 - g. Change the color of the surface water from natural background levels or color.
2. The discharge shall be free from oil, grease and other pollutants that float as debris, foam, or scum; or that cause a film or iridescent appearance on the surface of the water; or that cause a deposit on a shoreline, bank or aquatic vegetation.

PART II. MONITORING AND REPORTING

A. Sample Collection and Analysis

1. Samples taken for the monitoring requirements specified in Part I shall be collected at the following locations:
 - a. Discharge samples shall be taken downstream from the last treatment process and prior to mixing with the receiving water in the Grand Canal.
 - b. Receiving samples for flow, if necessary, and arsenic upstream of the discharge point ("upstream samples") shall be taken from the Grand Canal approximately 50 feet upstream of the 56th Street and Earll Drive WQARF Site Groundwater Treatment System.
 - c. Receiving waters for flow, if necessary, and arsenic downstream of the discharge point ("downstream samples") shall be taken from the approximate midpoint of the 32nd Street Bridge over the Grand Canal, approximately 1,400 feet downstream of the discharge point (at the downstream edge of the mixing zone).
2. The Permittee is responsible for the quality and accuracy of all data required under this Permit.
3. The permittee shall keep a QA Manual on site that describes the sample collection and analyses processes. If the permittee collects samples or conducts sample analyses in house, the permittee shall develop a QA

Manual that addresses these activities. If a third party collects and/or analyzes samples on behalf of the permittee, the permittee shall obtain a copy of the applicable QA procedures. The QA Manual shall be available for review by ADEQ upon request. The QA Manual shall be updated as necessary to reflect current conditions, and shall describe the following:

- a. Project Management, including:
 - i. Purpose of sample collection and sample frequency;
 - ii. When and where samples will be collected;
 - iii. How samples will be collected;
 - iv. Laboratory(s) that will perform analyses;
 - v. Any field tests to be conducted (detail methods and specify equipment, including a description of any needed calibrations); and
 - vi. Pollutants or analytes being measured and for each, the permit-specific limits, Assessment Levels, or thresholds, (e.g. the associated detection limits needed.)
 - b. Sample collection procedures including:
 - i. Equipment to be used;
 - ii. Type and number of samples to be collected including QA/QC samples (i.e., background samples, duplicates, and equipment or field blanks);
 - iii. Types, sizes and number of sample bottles needed;
 - iv. Preservatives and holding times for the samples (see methods under 40 CFR 136 or 9 A.A.C. 14, Article 6 or any condition within this permit that specifies Chain of Custody procedures).
 - c. Specify approved analytical method(s) to be used and include:
 - i. Limits of Detection (LOD) and Limits of Quantitation (LOQs);
 - ii. Required quality control (QC) results to be reported (e.g., matrix spike recoveries, duplicate relative percent differences, blank contamination, laboratory control sample recoveries, surrogate spike recoveries, etc.) and acceptance criteria; and
 - iii. Corrective actions to be taken by the permittee or the laboratory as a result of problems identified during QC checks.
 - d. How the permittee will perform data review; complete DMRs and records used to report results to ADEQ; resolve data quality issues; and identify limitations on the use of the data.
4. Sample collection, preservation and handling shall be performed as described in 40 CFR 136 including the referenced Edition of *Standard Methods for the Examination of Water and Wastewater*, or by procedures referenced in A.R.S. Title 9, Chapter 14 of the Arizona Department of Health Services (ADHS) Laboratory Licensure rules. The permittee shall outline the proper procedures in the QA Manual, and samples taken for this permit must conform to these procedures whether collection and handling is performed directly by the permittee or contracted to a third-party.
5. Analytical requirements
- a. The permittee shall use a laboratory licensed by the ADHS Office of Laboratory Licensure and Certification that has demonstrated proficiency within the last 12 months under A.A.C. R9-14-609, for each parameter to be sampled under this permit. However, this requirement does not apply to parameters which require analysis at the time of sample accordance with A.C.C. 36-495.02(A)(3). (These parameters may include flow, dissolved oxygen, pH, temperature, and total residual chlorine.)
 - b. The permittee must utilize analytical methods specified in this permit. If no test procedure is specified, the permittee shall analyze the pollutant using:
 - i. A test procedure listed in 40 CFR 136 which is also approved under A.A.C. R9-14-610;

- ii. An alternative test procedure approved by EPA as provided in 40 CFR 136 and which is also approved under A.A.C. R9-14-610;
 - iii. A test procedure listed in 40 CFR 136, with modifications allowed by EPA or approved as a method alteration by ADHS under A.A.C. R9-14-610C; or
 - iv. If no test procedure for a pollutant is available under (4)(b)(i) through (4)(b)(iii) above, any Method approved under A.A.C. R9-14-610(B) for wastewater may be used, except the use of field kits is not allowed unless otherwise specified in this permit. If there is no approved wastewater method for a parameter, any other method identified in 9 A.A.C. 14, Article 6 that will achieve appropriate detection and reporting limits may be used for analyses.
 - c. For results to be considered valid, all analytical work, including those tests conducted by the permittee at the time of sampling (see Part II.A.5.a), shall meet quality control standards specified in the approved methods.
 - d. The permittee shall use analytical methods with a Limit of Quantitation (LOQ) that is lower than the effluent limitations, Assessments Levels, Action Levels, or other water quality criteria, if any, specified in this permit. If all methods have LOQs higher than the applicable water quality criteria, the Permittee shall use the approved analytical method with the lowest LOQ.
 - e. The permittee shall use a standard calibration curve when applicable to the method, where the lowest standard point is equal to or less than the LOQ.
6. Metals Analyses - In accordance with 40 CFR 122.45(c), all effluent metals concentrations, with the exception of chromium VI, shall be measured as "total recoverable metals". Discharge Limits and Assessment Levels in this permit, if any, are for total metals, except for chromium VI for which the levels listed is dissolved.

B. Reporting of Monitoring Results

1. The permittee shall report monitoring results on Discharge Monitoring Report (DMR) to the ADEQ electronic submission portal MyDEQ. The permittee shall submit results of all monitoring required by this permit in a format that will allow direct comparison with the limitations and requirements of this permit. If no discharge occurs during a reporting period, the permittee shall specify "No discharge" on the DMR. The results of all discharge analyses conducted during the monitoring period shall be included in determinations of the monthly average and daily maximums reported on the DMRs if the analyses were by methods specified in Part II.A above, as applicable.
2. DMRs and attachments are to be submitted by the 28th day of the month following the end of a monitoring period. For example, if the monitoring period ends January 31st, the permittee shall submit the DMR by February 28th. The permittee shall electronically submit all compliance monitoring data and reports using the myDEQ electronic portal provided by ADEQ. The reports required to be electronically submitted include, but are not limited to, the following:
 - a. Discharge Monitoring Reports
 - b. Original copies of laboratory results
 - c. AZPDES discharge flow records
 - d. Bench sheets or similar documentation for field testing parameters

3. If requested to participate, the permittee shall submit the results of the annual NPDES DMR/QA Study to ADEQ and ADHS for all laboratories used in monitoring compliance with this permit by December 31st of each year. The permittee shall also conduct any proficiency testing required by the NPDES DMR-QA Study for those parameters listed in the study that the permittee analyzes in house or tests in the field at the time of sampling (these parameters may include pH and total residual chlorine). All results of the NPDES DMR-QA Study shall be submitted to the email and addresses listed below, or submit by any other alternative mode as specified by ADEQ:

Arizona Department of Environmental Quality
Email: AZPDES@azdeq.gov

Arizona Department of Health Services
Attn: Office of Laboratory Licensure and Certification
250 North 17th Avenue
Phoenix, AZ 85007

4. For the purposes of reporting, the permittee shall use the Limit of Quantitation.
5. For parameters with Daily Maximum Limits or Daily Maximum Assessment Levels in this permit, the permittee shall review the results of all samples collected during the reporting period and report as outlined in Table 4.
6. For parameters with Monthly Average Limits or Monthly Average Assessment Levels in this permit, the permittee shall review the results of all samples collected during the reporting period and report as outlined in Table 5.

Table 4. DMR Reporting Requirements for Daily Maximum Limits and Assessment Levels

For Daily Maximum Limits/Assessment Levels	The Permittee shall Report on the DMR
When the maximum value of any analytical result is greater than or equal to the LOQ	The maximum value of all analytical results
When the maximum value detected is greater than or equal to the laboratory's LOD but less than the LOQ	NODI (Q)
When the maximum value is less than the laboratory's LOD	NODI (B)

Table 5. DMR Reporting Requirements for Monthly Average Limits / Assessment Levels

For Monthly Average Limits/Assessment Levels		The Permittee shall Report on the DMR
If only one sample is collected during the reporting period (monthly, quarterly, annually, etc.) (In this case, the sample result is the monthly average.)	When the value detected is greater than or equal to the LOQ	The analytical result
	When the value detected is greater than or equal to the laboratory's LOD, but less than the LOQ	NODI (Q)
	When the value is less than the laboratory's LOD	NODI (B)
If more than one sample is collected during the reporting period	<p>All samples collected in the same calendar month must be averaged.</p> <ul style="list-style-type: none"> When all results are greater than or equal to the LOQ, all values are averaged If some results are less than the LOQ, use the LOD value in the averaging Use '0' for values less than the LOD 	The highest monthly average which occurred during the reporting period

7. For all field testing, or if the information below is not included on the laboratory reports required by Part II.B.2, the permittee shall attach a bench sheet or similar documentation to each DMR that includes, for all analytical results during the reporting period the following:
 - a. the analytical result,
 - b. the number or title of the approved analytical method, preparation and analytical procedure utilized by the field personnel or laboratory, and the LOD and LOQ for the analytical method for the parameter, and
 - c. any applicable data qualifiers using the most current revision of the Arizona Data Qualifiers (available online at: <http://www.azdhs.gov>)

C. Twenty-four Hour Reporting of Noncompliance

1. The permittee shall orally report to the Emergency Response Unit hotline at (602) 771-2330 any noncompliance that poses imminent threat to the environment or human health within 24 hours from the time the permittee becomes aware of the circumstances. The permittee shall also submit an electronic notification to ADEQ within 5 days of the noncompliance event using the myDEQ electronic portal provided by ADEQ. The permittee shall include in the written notification: a description of the noncompliance and its cause; the period of noncompliance, including dates and times, and, if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
 - a. The following instances of noncompliance are subject to the 24-hour and 5-day reporting requirements and must be reported orally to the Emergency Response Unit hotline:
 - b. Any unanticipated bypass which exceeds any effluent limitations in the permit,
 - c. Any upset which exceeds any effluent limitation in the permit, or
 - d. Any spill or discharge that poses an imminent threat to human health or the environment.
 - e. A surface water quality exceedance at the "downstream" sample location, e.g. boundary of mixing zone.
2. All other instances of noncompliance remain subject to the 24-hour and 5-day reporting requirements, and must call the ADEQ AZPDES hotline at (602) 771-1440. For example, an exceedance of any maximum daily limit for the parameters listed in Part 1.A Table 1 that does not poses an imminent threat to human health or the environment.

3. The permittee shall retain records the following monitoring records of:
 - a. Date, exact location and time of sampling or measurements performed, preservatives used;
 - b. Individual(s) who performed the sampling or measurements;
 - c. Date(s) the analyses were performed;
 - d. Laboratory(s) which performed the analyses;
 - e. Analytical techniques or methods used;
 - f. Chain of custody forms;
 - g. Any comments, case narrative or summary of results produced by the laboratory. These comments should identify and discuss QA/QC analyses performed concurrently during sample analyses and should specify whether analyses met project requirements and 40 CFR 136. If results include information on initial and continuing calibration, surrogate analyses, blanks, duplicates, laboratory control samples, matrix spike and matrix spike duplicate results, sample receipt condition, or holding times and preservation, these records must also be retained.
 - h. Summary of data interpretation and any corrective action taken by the permittee.
 - i. Best Management Practices communications logbook described in Part III.D.

PART III. SPECIAL CONDITIONS

A. Mixing Zone Conditions

1. A mixing zone for arsenic, boron, and fluoride has been granted in the Grand Canal for discharges from the 56th Street and Earll Drive WQARF Site Groundwater Treatment System. The conditional approval for arsenic (with dilution) is dependent on background concentrations of arsenic in the Grand Canal to allow for dilution which occurs when the Verde River is not the dominant source water. ADEQ evaluated the request and approved for the establishment of the arsenic, boron, and fluoride mixing zone. The factors in Arizona mixing zone rules listed in A.A.C. R18-11-114(D) were considered upon approving of the request.
2. The Outfall 001 and the subsequent mixing zone are located immediately downstream of the discharges from the OU2 and the corresponding mixing zone in the Grand Canal.
3. The boundary of the mixing zone begins at Outfall 001 and extends 1,400 feet downstream to the approximate 32nd Street Bridge over the Grand Canal.
4. The permittee shall limit discharges for arsenic as outlined in Part I. A.1. of the permit. The end-of-pipe limitations for arsenic (with dilution) are based upon the approved mixing zone.
5. The permittee shall monitor and report for boron and fluoride, as required by Part I.C.1. of the Permit for effluent characterization.
6. The permittee shall not discharge into the Grand Canal during when the canal is dried up for maintenance and no water is available for dilution.
7. If the permittee intends to retain and/or reestablish the mixing zone for arsenic, boron, and fluoride, the permittee shall conduct a new mixing zone study to be completed and submitted with the permit renewal. The study shall consider the requirements of A.A.C. R18-11-114(D) and (G).

B. Mixing Zone Study

1. Within 30 days from the date of the issuance of the permit, NXP shall submit a draft Mixing Zone Study (Study) for ADEQ review and approval. The purpose of the Mixing Zone Study is to validate the assumption of complete and rapid mixing within the mixing zone. At a minimum, the shall include:
 - a. Schedule for completion of the Study to be completed no later than 90 days after restart of GWTS operations.
 - b. A Sampling and Analysis Plan (SAP), describing the following:
 - i. Purpose of sample collection and sample frequency;

- ii. When and where samples will be collected;
 - iii. How samples will be collected;
 - iv. Laboratory(s) that will perform analyses;
 - v. Any field tests to be conducted (detail methods and specify equipment, including a description of any needed calibrations); and
 - vi. Pollutants or analytes being measured and for each, the permit-specific limits, Assessment Levels, or thresholds, (e.g. the associated detection limits needed.) The pollutants or analytes being measured shall include arsenic, boron, and fluoride, and any other parameters that may assist with validating “complete mixing.”
 - vii. Sample collection procedures (Part II.A.4 of the Permit) including:
 - 1. Equipment to be used;
 - 2. Type and number of samples to be collected including QA/QC samples (i.e., background samples, duplicates, and equipment or field blanks);
 - 3. Types, sizes and number of sample bottles needed;
 - 4. Preservatives and holding times for the samples (see methods under 40 CFR 136 or 9 A.A.C. 14, Article 6 or any condition within this permit that specifies Chain of Custody procedures).
 - viii. Specify approved analytical method(s) to be used (Part II.A.5 of the Permit) and include:
 - 1. Limits of Detection (LOD) and Limits of Quantitation (LOQs);
 - 2. Required quality control (QC) results to be reported (e.g., matrix spike recoveries, duplicate relative percent differences, blank contamination, laboratory control sample recoveries, surrogate spike recoveries, etc.) and acceptance criteria; and
 - 3. Corrective actions to be taken by the permittee or the laboratory as a result of problems identified during QC checks.
2. Upon written approval from ADEQ and within 90 days after the restart of the GWTS¹, NXP shall implement the Mixing Zone Study, following the schedule referenced in Section 1.a. above.
 3. Within 30 days of completion of the mixing zone study, NXP shall submit a report, including:
 - a. A discussion of the findings;
 - b. An analysis of the data collected as part of the study;
 - c. A determination as to whether complete mixing is occurring;
 - d. If complete and rapid mixing is not occurring, a proposed corrective actions.

¹ If permit issuance occurs when the Verde River is the dominant source water of the Grand Canal, the 90-day time frame to conduct the Mixing Zone Study does not begin until the GWTS may operated under the conditionally approved mixing zone as described in Part III.A. of the permit.

C. Ambient Monitoring

1. The permittee shall monitor the Grand Canal as specified in Tables 6 and 7 below:

Table 6. Ambient Monitoring Locations

Sample Point	Location
"Upstream Samples"	Immediately downstream of OU2 Treatment System Mixing Zone Boundary
"Downstream Sample" - Mixing Zone Boundary	Approximate midpoint of the 32 nd Street Bridge over the Grand Canal

Footnotes

- 1 "Upstream Samples" shall be collected immediately downstream of the OU2 mixing zone and upstream of Outfall 001.
- 2 "Downstream Samples" shall be collected from the approximate mid-point of the 32nd Street Bridge over the Grand Canal, approximately 1,400 feet downstream from Outfall 001.

Table 7. Ambient Monitoring Requirements

Parameter	Monitoring Requirements			
	Reporting Units	Lowest SWQS Standard	Monitoring Frequency	Sample Type
Flow Rate	cfs	---	1x/Quarter	Measured
pH (1)	S.U.	---	1x/Quarter	Measured
Arsenic (Total Recoverable and Dissolved)	ug/L	10 µg/L	1x/Quarter	Discrete
Boron (Total Recoverable and Dissolved)	ug/L	1000 µg/L	1x/Quarter	Discrete
Fluoride (Total Recoverable and Dissolved)	ug/L	4000 µg/L	1x/Quarter	Discrete

Footnotes

- 1 pH is a field parameter that must be measured at the time of sampling and does not require the use of a certified laboratory. Measurements must be obtained in accordance with the applicable method and must meet all method quality assurance/quality control requirements to be considered valid data.
2. Ambient surface water sample collection shall be conducted as specified in Part II.A. of the Permit. In addition, field sampling standard operating procedures (SOPs) shall be developed and maintained which include the following:
 - a. sampling locations, including depth and distance from water edge;
 - b. sampling and field protocols for each parameter or parametric group, including sampling methods, equipment and containers, sample preservation and holding times, and a description of analysis to be conducted in the field or outside of a laboratory;
 - c. sample identification and custody protocols to be used;

- d. quality control protocols, including the number and type of field quality control samples including the field blanks, field duplicate samples, and double volume quality control samples specified in Part III.C.4 below;
- e. a list of the field equipment to be used;
- f. procedures for testing, inspecting, and maintaining the field equipment; and
- g. field instrument calibration procedures that describe how and when field sampling and analytical instruments will be calibrated.

The field sampling SOP(s) shall be consistent with current professional practices for ambient surface water quality sampling such as those presented in the relevant sections of ADEQ's *"Standard Operating Procedures for Surface Water Sampling"* (available at www.azdeq.gov) or similar guidance documents. All procedures pertaining to field equipment shall be consistent with the equipment manufacturers' recommendations.

3. Quality Control Samples

- a. The permittee shall submit to their lab on an annual basis a "blind" field duplicate of the sample collected at ADEQ ID# 100466 downstream of the outfalls.
- b. The permittee shall submit to their lab on an annual basis a "blind" field blank. The field blank is to be collected by pouring filtered, distilled water directly into one of the clean sample bottles used for field sampling.
- c. The permittee shall submit to their lab on an annual basis a double volume laboratory Quality Control sample. The laboratory QC samples will be labeled "lab QC" on the sample labels and are to be analyzed for all parameters.
- d. Results from the quality control samples specified above shall be included in the Ambient Surface Water Monitoring Annual Report specified in Part III.C.4.b.

4. Record Keeping and Reporting

- a. The permittee shall record all field sampling activities on field sheets or in a hardbound notebook, or electronically. Non-electronic entries shall be legible, written in permanent ink, and contain accurate information. The following information shall be recorded.
 - i. weather conditions at time of sampling
 - ii. date and time of sampling or measurements performed
 - iii. location of sampling, including distance from water edge and water and sampling depths field measurements and equipment used
 - iv. field equipment calibration dates and measurements
 - v. sampling equipment used to collect samples
 - vi. quality control samples collected, if any
 - vii. condition/color/characteristics of water and sediments in the stream bed and banks
 - viii. name(s) of sampling personnel
- b. Ambient Surface Water Monitoring Annual Report containing ambient monitoring data shall be submitted to ADEQ by January 31st of the following year using the surface water data submission template, which is provided by ADEQ. Permittees are responsible for filling out the required fields. In addition to the data submission template the Permittees shall use the provided ADEQ site numbers.

The template files is located on ADEQ's website at <http://www.azdeq.gov/programs/water-quality-programs/surface-water-monitoring-and-assessment>.

- c. The report and template shall be submitted to swdata@azdeq.gov and azpdes@azdeq.gov.
5. Any exceedances of a surface water quality standard listed in Table 7 at the "Downstream Sample" location shall be subject to the 24-hour reporting requirements in Part II.C. of the Permit.

D. Best Management Practices

1. The permittee shall develop and implement written procedures outlining the administrative controls, including communication and coordination with Salt River Project, to ensure that the GWTS is operated in compliance with the conditional approval of the mixing zone, e.g. reporting contingent on the the primary source water in the Grand Canal.
2. The permittee shall document applicable communications within a logbook.
3. These records shall be maintained and be made available for inspection at ADEQ's request.

E. Reopener

1. This permit may be modified per the provisions of A.A.C. R18-9-B906, and R18-9-A905 which incorporates 40 CFR Part 122. This permit may be reopened based on newly available information; to add conditions or limits to address demonstrated effluent toxicity; to implement any EPA-approved new Arizona water quality standard; or to re-evaluate reasonable potential (RP), if Assessment Levels in this permit are exceeded.

Appendix A. Part A: Acronyms

A.A.C.	Arizona Administrative Code
ADEQ	Arizona Department of Environmental Quality
ADHS	Arizona Department of Health Services
AZPDES	Arizona Pollutant Discharge Elimination System
A.R.S.	Arizona Revised Statutes
CFR	Code of Federal Regulations
Director	The Director of ADEQ or any authorized representative thereof
DMR	Discharge Monitoring Report
EPA	The U.S. Environmental Protection Agency
kg/day	Kilograms per day
MGD	Million Gallons per Day
mg/L	Milligrams per Liter, also equal to parts per million (ppm)
NPDES	National Pollutant Discharge Elimination System
QA	Quality Assurance
TBEL	Technology-based Effluent Limitation
µg/L	Micrograms per Liter, also equal to parts per billion (ppb)
WQBEL	Water quality-based Effluent Limitation

Appendix A. Part B: Definitions

Base Flood	A flood that has a one percent chance of occurring in any given year (or a flood that is likely to occur once in 100 years).
Complete Mixing	Means the location at which concentration of a pollutant across a transect of a surface water differs by less than 5 percent.

Critical Flow Conditions of a discharge	The hydrologically based discharge flow averages that is used to calculate and implement applicable water quality criteria to a mixing zone's receiving water. See A.A.C. R18-11-101(14).
Daily Maximum Concentration Limit	The maximum allowable discharge of a pollutant in a calendar day as measured on any single discrete sample or composite sample.
Discrete or Grab Sample	An individual sample of at least 100 mL collected from a single location, or over a period of time not exceeding 15 minutes.
Effluent Dependent Water	Effluent Dependent Water means a surface water or portion of a surface water that consists of a point source discharge without which the surface water would be ephemeral. An effluent dependent water may be perennial or intermittent depending on the volume and frequency of the point source discharge of treated wastewater.
Ephemeral Water	Ephemeral water means a surface water or portion of surface water that flows or pools only in direct response to precipitation.
Hardness	The sum of the calcium and magnesium concentrations, expressed as calcium carbonate (CaCO ₃) in milligrams per liter.
Impaired Water	Impaired water means a protected surface water for which credible scientific data exists that satisfies the requirements of section 49-232, and that, in the case of waters of the U.S., demonstrate that the water should be identified pursuant to 33 United States Code section 1313(d) and the regulations implementing that statute
Intermittent Water	Intermittent water means a surface water or portion of surface water that flows continuously during certain times of the year and more than in direct response to precipitation, such as when it receives water from a spring, elevated groundwater table or another surface source such as melting snowpack.
Limit of Quantitation (LOQ)	The minimum levels, concentrations, or quantities of a target variable such as an analyte that can be reported with a specific degree of confidence. The calibration point shall be at or below the LOQ. The LOQ is the concentration in a sample that is equivalent to the concentration of the lowest calibration standard analyzed by a specific analytical procedure, assuming that all of the method-specified sample weights, volumes, and processing steps have been followed.
Limit of Detection (LOD)	An analyte and matrix-specific estimate of the minimum amount of a substance that the analytical process can reliably detect with a 99% confidence level. This may be laboratory dependent and is developed according to R9014-615(C)(7).
Method Detection Limit (MDL)	See LOD
Mixing Zone	An area or volume of a surface water that is contiguous to a point source discharge where dilution takes place.
Monthly or Weekly Average Concentration Limit	Other than for bacteriological testing, means the highest allowable average calculated as an arithmetic mean of consecutive measurements made during calendar month or week, respectively. The "monthly or weekly average concentration limit" for <i>E. coli</i> bacteria means the highest allowable average calculated as the geometric mean of a minimum of four (4) measurements made during a calendar month or week, respectively. The geometric mean is the nth root of the product of n numbers. For either method (CFU or MPN), when data are reported as "0" or non-detect then input a "1" into the calculation for the geometric mean.
Non-wotus protected surface water	Non-wotus protected surface water means a protected surface water that is not

	a WOTUS.
Pathogen	A disease-causing organism.
Point Source	Point Source means any discernible, confined and discrete conveyance, including, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation or vessel or other floating craft from which pollutants are or may be discharged to a protected surface water. Point source does not include return flows from irrigated agriculture.
Protected Surface Waters	Protected Surface Waters means waters of the State listed on the protected surface water list under Section 49-221, Subsection G and all WOTUS.
Runoff	Rainwater, leachate, or other liquid that drains over any part of a land surface and runs off of the land surface.
Sewage Sludge Unit	Land on which only sewage sludge is placed for final disposal. This does not include land on which sewage sludge is either stored or treated. Land does not include navigable waters.
Source Water	Is defined as untreated water from streams, rivers, lakes or underground aquifers that is used to provide public drinking water as well as to supply private wells used for human consumption.
Submit	Used in this permit, means post-marked, documented by other mailing receipt, or hand-delivered to ADEQ.
Surface Water Quality Standards	Surface Water Quality Standards means a standard adopted for a protected surface water pursuant to Section 49-221 and, in the case of WOTUS, pursuant to Section 49-222.
Total Maximum Daily Loads (TMDLs)	Total Maximum Daily Loads (TMDLs) is an estimation of the total amount of a pollutant from all sources that may be added to a water, while still allowing the water to achieve and maintain applicable surface water quality standards. Each total maximum daily load shall include allocations for sources that contribute the pollutant to the water. Total Maximum Daily Loads for waters of the U.S. shall meet the requirements of section 303(d) of the Clean Water Act (33 USC 1313(d)) and regulations implementing that statute, or [the requirements] that the department otherwise determines are required to restore an impaired water.
Waters of the United States (WOTUS)	Waters of the United States (WOTUS) means protected surface waters that are also navigable waters as defined by Section 502(7) of the Clean Water Act.
WOTUS Protected Surface Water	WOTUS protected surface water- means a protected surface water that is a WOTUS.
Zone of initial dilution	A small area in the immediate vicinity of an outfall structure in which turbulence is high and causes rapid mixing with the surrounding water.

Appendix B. AZPDES Discharge Flow Record

56th St. & Earll Drive Treatment Plant—AZ0025861			
Discharge to the SRP Grand Canal Basin At:			
Outfall No: 001			
Location:			
Month:		Year:	
Date:	Flow Duration ⁽¹⁾ (Total hours per day)	Flow Rate ⁽²⁾ (Total MGD per day)	
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
Comment:			

Footnotes

1 Total time of discharge in hours per day. If actual time is not available, use an estimate of flow duration.

2 Report flow discharge in MGD. If no discharge occurs on any given day, report 'ND' for the flow for that day.

Appendix C. Standard AZPDES Permit Conditions & Notifications

(Updated as of February 2, 2004)

1. Duty to Reapply—[R18-9-B904(C)]
Unless the Permittee permanently ceases the discharging activity covered by this permit, the Permittee shall submit a new application 180 days before the existing permit expires
2. Applications—[R18-9-A905(A)(1)(C) which incorporates 40CFR 122.22]
 - a. All applications shall be signed as follows:
 - i. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
 - A. A president, secretary, treasure, or vice-president of the corporation in charge of a principle business function, or any other person who performs similar policy-or decision-making functions for the corporation, or
 - B. The manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
 - ii. For partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - iii. For a municipality, State, Federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes: (i) The chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).
 - b. All reports required by permits and other information requested by the Director shall be signed by a person described in paragraph (a) of this Section, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - i. The authorization is made in writing by a person described in paragraph (a) of this section;
 - ii. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.) and,
 - iii. The written authorization is submitted to the Director.
 - c. Changes to Authorization. If an authorization under paragraph (b) of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph (b) of this section must be submitted to the Director prior to or together with any reports, information, or applications to be signed by an authorized representative.
 - d. Certification. Any person signing a document under paragraph (a) or (b) of this section shall make the following certification:

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

3. Duty to Comply - [R18-9-A905(A)(3)(a) which incorporates 40 CFR 122.41(a)(i) and A.R.S. §49- 262, 263.01, and 263.02.]
 - a. The Permittee shall comply with all conditions of this permit and any standard and prohibition required under A.R.S. Title 49, Chapter 2, Article 3.1 and A.A.C. Title 18, Chapter 9, Articles 9 and 10. For discharges to a WOTUS, any permit noncompliance constitutes a violation of the Clean Water Act; A.R.S. Title 49, Chapter 2, Article 3.1; and A.A.C. Title 18, Chapter 9, Articles 9 and 10, and is grounds for enforcement action, permit termination, revocation and reissuance, or modification, or denial of a permit renewal application.
 - b. The issuance of this permit does not waive any federal, state, county, or local regulations or permit requirements with which a person discharging under this permit is required to comply.
 - c. The Permittee shall comply with the effluent standards or prohibitions established under section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the Clean Water Act within the time provided in the regulation that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.
 - d. Civil Penalties. A.R.S. § 49-262(C) provides that any person who violates any provision of A.R.S. Title 49, Chapter 2, Article 3.1 or a rule, permit, discharge limitation or order issued or adopted under A.R.S. Title 49, Chapter 2, Article 3.1 is subject to a civil penalty not to exceed \$25,000 per day per violation.
 - e. Criminal Penalties. Any a person who violates a condition of this permit, or violates a provision under A.R.S. Title 49, Chapter 2, Article 3.1, or A.A.C. Title 18, Chapter 9, Articles 9 and 10 is subject to the enforcement actions established under A.R.S. Title 49, Chapter 2, Article 4, which may include the possibility of fines and/or imprisonment.
4. Need to Halt or Reduce Activity Not a Defense—[R18-9-A905(A)(3)(a) which incorporates 40 CFR 122.41(c)]

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
5. Duty to Mitigate - [R18-9-A905(A)(3)(a) which incorporates 40 CFR 122.41(d)]

The Permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
6. Proper Operation and Maintenance - [R18-9-A905(A)(3)(a) which incorporates 40 CFR 122.41(e)]

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a Permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

7. Permit Actions - [R18-9-A905(A)(3)(a) which incorporates 40 CFR 122.41(f)]

This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

8. Property Rights - [R18-9-A905(A)(3)(a) which incorporates 40 CFR 122.41(g)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

9. Duty to Provide Information - [R18-9-A905(A)(3)(a) which incorporates 40 CFR 122.41(h)]

The Permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, 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.

10. Inspection and Entry [R18-9-A905(A)(3)(a) which incorporates 40 CFR 122.41(i)]

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and such other documents as may be required by law, to:

- a. Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the terms of the permit;
- c. Inspect at reasonable times any facilities, equipment (including monitoring equipment or control equipment), practices or operations regulated or required under this permit; and
- d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by A.R.S. Title 49, Chapter 2, Article 3.1, and A.A.C. Title 18, Chapter 9, Articles 9 and 10, any substances or parameters at any location

11. Monitoring and Records - [R18-9-A905(A)(3)(a) which incorporates 40 CFR 122.41(j)]

- a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
- b. The Permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, 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 at least 3 years from the date of the sample, measurement, report or application, except for records of monitoring information required by this permit related to the Permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503). This period may be extended by request of the Director at any time.
- c. Records of monitoring information shall include:
 - i. The date, exact place and time of sampling or measurements;
 - ii. The individual(s) who performed the sampling or measurements;
 - iii. The date(s) the analyses were performed;
 - iv. The individual(s) who performed the analyses;
 - v. The analytical techniques or methods used; and
 - vi. The results of such analyses.

- d. Monitoring must be conducted according to test procedures specified in this permit. If a test procedure is not specified in the permit, then monitoring must be conducted according to test procedures approved under A.A.C. R18-9-A905(B) including those under 40 CFR Part 136 unless otherwise specified in 40 CFR Part 503 (for sludge).
- e. The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained in this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than two years per violation, or by both for first conviction. For a second conviction, such a person is subject to a fine of not more than \$20,000 per day of violation, or imprisonment for not more than four years, or both.

Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained in this permit is subject to the enforcement actions established under A.R.S. Title 49, Chapter 2, Article 4, which includes the possibility of fines and/or imprisonment.

12. Signatory Requirement - [R18-9-A905(A)(3)(a) which incorporates 40 CFR 122.41(k)]

- a. All applications, reports, or information submitted to the Director shall be signed and certified. (See 40 CFR 122.22 incorporated at R18-9-A905(A)(1)(c))
- b. The CLEAN WATER ACT provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than two years per violation, or by both for a first conviction. For a second conviction, such a person is subject to a fine of not more than \$20,000 per day of violation, or imprisonment of not more than four years, or both.

13. Reporting Requirements - [R18-9-A905(A)(3)(a) which incorporates 40 CFR 122.41(l)]

- a. Planned changes. The Permittee shall give notice to the Director as soon as possible of any planned physical alterations of additions to the permitted facility. Notice is required only when:
 - i. The alteration or addition to a permitted facility that discharges to a WOTUS, may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b) (incorporated by reference at R18-9-A905(A)(1)(e)); or
 - ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR 122.42(a)(1) (incorporated by reference at R18-9-A905(A)(3)(b)).
 - iii. The alteration or addition results in a significant change in the Permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
- b. Anticipated noncompliance. The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- c. Transfers. (R18-9-B905) This permit is not transferable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the Permittee and incorporate such other requirements as may be necessary under Arizona Revised Statutes and the Clean Water Act.
- d. Monitoring reports. Monitoring results shall be reported at the intervals specified elsewhere in this permit.

- i. Monitoring results must be reported on a Discharge Monitoring Report (DMR) or forms provided or specified by the Director for reporting results of monitoring of sludge use or disposal practices.
 - ii. If the Permittee monitors any pollutant more frequently than required by the permit, then the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR, or sludge reporting form specified by the Director.
 - iii. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Director in the permit.
 - e. Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.
 - f. Twenty-four hour reporting.
 - i. The Permittee shall report any noncompliance which may endanger human health or the environment. Any information shall be provided orally within 24 hours from the time the Permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
 - ii. The following shall be included as information which must be reported within 24 hours under this paragraph.
 - A. Any unanticipated bypass which exceeds any effluent limitation in the permit. (See 40 CFR 122.41(g) which is incorporated by reference at R18-9-A905(A)(3)(a)).
 - B. Any upset which exceeds any effluent limitation in the permit.
 - C. Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in the permit to be reported within 24 hours. (See 40 CFR 122.44(g) which is incorporated by reference at R18-9-A905(A)(3)(d)).
 - g. Other noncompliance. The Permittee shall report all instances of noncompliance not reported under paragraphs (d), (e), and (f) of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph (f) of this section.
 - h. Other information. 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, it shall promptly submit such facts or information.
14. Bypass - [R18-9-A905(A)(3)(a) which incorporates 40 CFR 122.41(m)]
- a. Definitions
 - i. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.
 - ii. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

- b. Bypass not exceeding limitations. The Permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provision of paragraphs (c) and (d) of this section.
 - c. Notice.
 - i. Anticipated bypass. If the Permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of bypass.
 - ii. Unanticipated bypass. The Permittee shall submit notice of an unanticipated bypass as required in paragraph (f)(2) of section 13 (24-hour notice).
 - d. Prohibition of bypass.
 - i. Bypass is prohibited, and the Director may take enforcement action against a Permittee for bypass, unless:
 - A. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - B. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment down time. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - C. The Permittee submitted notices as required under paragraph (c) of this section.
 - ii. The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed above in paragraph (d)(1) of this section.
15. Upset - [A.R.S. §§49-255(8) and 255.01(E), R18-9-A905(A)(3)(a) which incorporates 40 CFR 122.41(n)]
- a. Definition. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the Permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.
 - b. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of paragraph (c) of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
 - c. Conditions necessary for a demonstration of upset. A Permittee who wishes to establish the affirmative defenses of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - i. An upset occurred and that the Permittee can identify the cause(s) of the upset;
 - ii. The permitted facility was at the time being properly operated; and
 - iii. The Permittee submitted notice of the upset as required in paragraph (f)(2) of Section 13 (24-hour notice).
 - iv. The Permittee has taken appropriate measure including all reasonable steps to minimize or prevent any discharge or sewage sludge use or disposal that is in violation of the permit and that has a reasonable likelihood of adversely affecting human health or the environment per A.R.S. § 49-255.01(E)(1)(d).

- d. Burden of proof. In any enforcement proceeding the Permittee seeking to establish the occurrence of an upset has the burden of proof.

16. Existing Manufacturing, Commercial, Mining, and Silvicultural Dischargers - [R18-9-A905(A)(3)(b) which incorporates 40 CFR 122.42(a)]

In addition to the reporting requirements under 40 CFR 122.41(l) (which is incorporated at R18-9-A905(A)(3)(a)), all existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Director as soon as they know or have reason to believe:

- a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - i. One hundred micrograms per liter (100 µg/l);
 - ii. hundred micrograms per liter (200 µg/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
 - iii. Five times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122.21(g)(7) (which is incorporated at R18-9-A905(A)(1)(b)); or
 - iv. The level established by the Director in accordance with 40 CFR 122.44(f) (which is incorporated at R18-9-A905(A)(3)(d)).
- b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - i. Five hundred micrograms per liter (500 µg/l);
 - ii. One milligram per liter (1 mg/l) for antimony;
 - iii. Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122.21(g)(7)(which is incorporated at R18-9-A905(A)(1)(b));
 - iv. The level established by the Director in accordance with 40 CFR 122.44(f) (which is incorporated at R18-9-A905(A)(3)(d)).

17. Publicly Owned Treatment Works - [R18-9-A905(A)(3)(b) which incorporates 40 CFR 122.42(b)]

This section applies only to publicly owned treatment works as defined at ARS § 49-255(5).

- a. All POTW's must provide adequate notice to the Director of the following:
 - i. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to section 301 or 306 of the CLEAN WATER ACT if it were directly discharging those pollutants; and
 - ii. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.

- iii. For the purposes of this paragraph, adequate notice shall include information on (i) the quality and quantity of effluent introduced into the POTW, and (ii) any anticipated impact of the change on the quantity or quality of effluent to be discharge from the POTW.

Publicly owned treatment works may not receive hazardous waste by truck, rail, or dedicated pipe except as provided under 40 CFR 270. Hazardous wastes are defined at 40 CFR 261 and include any mixture containing any waste listed under 40 CFR 261.31 - 261.33. The Domestic Sewage Exclusion (40 CFR 261.4) applies only to wastes mixed with domestic sewage in a sewer leading to a publicly owned treatment works and not to mixtures of hazardous wastes and sewage or septage delivered to the treatment plant by truck.

18. Reopener Clause - [R18-9-A905(A)(3)(d) which incorporates 40 CFR 122.44(c)]

This permit shall be modified or revoked and reissued to incorporate any applicable effluent standard or limitation or standard for sewage sludge use or disposal under sections 301(b)(2)(C), and (D), 304(b)(2), 307(a)(2) and 405(d) which is promulgated or approved after the permit is issued if that effluent or sludge standard or limitation is more stringent than any effluent limitation in the permit, or controls a pollutant or sludge use or disposal practice not limited in the permit.

19. Privately Owned Treatment Works - [R18-9-A905(A)(3)(d) which incorporates 40 CFR 122.44]

This section applies only to privately owned treatment works as defined at 40 CFR 122.2.

- a. Materials authorized to be disposed of into the privately owned treatment works and collection system are typical domestic sewage. Unauthorized material are hazardous waste (as defined at 40 CFR Part 261), motor oil, gasoline, paints, varnishes, solvents, pesticides, fertilizers, industrial wastes, or other materials not generally associated with toilet flushing or personal hygiene, laundry, or food preparation, unless specifically listed under "Authorized Non-domestic Sewer Dischargers" elsewhere in this permit.
- b. It is the Permittee's responsibility to inform users of the privately owned treatment works and collection system of the prohibition against unauthorized materials and to ensure compliance with the prohibition. The Permittee must have the authority and capability to sample all discharges to the collection system, including any from septic haulers or other unsewered dischargers, and shall take and analyze such samples for conventional, toxic, or hazardous pollutants when instructed by the permitting authority. The Permittee must provide adequate security to prevent unauthorized discharges to the collection system.
- c. Should a user of the privately owned treatment works desire authorization to discharge non-domestic wastes, the Permittee shall submit a request for permit modification and an application, pursuant to 40 CFR 122.44(m), describing the proposed discharge. The application shall, to the extent possible, be submitted using ADEQ Forms 1 and 2C, unless another format is requested by the permitting authority. If the privately owned treatment works or collection system user is different from the Permittee, and the Permittee agrees to allow the non-domestic discharge, the user shall submit the application and the Permittee shall submit the permit modification request. The application and request for modification shall be submitted at least 6 months before authorization to discharge non-domestic wastes to the privately owned treatment works or collection system is desired.

20. Transfers by Modification - [R18-9-B905]

Except as provided in section 21, a permit may be transferred by the Permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made under R18-9-B906, to identify the new Permittee and incorporate such other requirements as may be necessary.

21. Automatic Transfers [R18-9-B905]

An alternative to transfers under section 20, any AZPDES permit may be automatically transferred to a new Permittee if:

- a. The current Permittee notifies the Director at least 30 days in advance of the proposed transfer date;
- b. The notice includes a written agreement between the existing and new Permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
- c. The Director does not notify the existing Permittee and the proposed new Permittee of his or her intent to modify or revoke and reissue the permit. A modification under this subparagraph may also be a minor modification under R18-9-B906(B).

22. Minor Modification of Permits [R18-9-B906(B)]

Upon the consent of the Permittee, the Director may modify a permit to make the corrections or allowances for changes in the permitted activity listed in this section, without following public notice procedures under R18-9-A907 or A908. Minor modifications may only:

- a. Correct typographical errors;
- b. Update a permit condition that changed as a result of updating an Arizona water quality standard;
- c. Require more frequent monitoring or reporting by the Permittee;
- d. Change an interim compliance date in a schedule of compliance, provided the new date is not more than 120 days after the date specified in the existing permit and does not interfere with attainment of the final compliance date requirement;
- e. Allow for a change in ownership or operational control of a facility where the Director determines that no other change in their permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new Permittee has been submitted to the Director.
- f. Change the construction schedule for a discharger that discharges to a WOTUS which is a new source. No such change shall affect a discharger's obligation prior to discharge under 40 CFR 122.29 (which is incorporated by reference in R18-9-A905(A)(1)(e)).
- g. Delete a point source outfall when the discharge from that outfall is terminated and does not result in discharge of pollutants from other outfalls except in accordance with the permit limits.
- h. Incorporate conditions of a POTW pretreatment program that has been approved in accordance with the procedures in 40 CFR 403.11 and 403.18 as enforceable conditions of the POTW's permit.
- i. Annex an area by a municipality.

23. Termination of Permits - [R-9-B906(C)]

The following are causes for terminating a permit during its term, or for denying a permit renewal application:

- a. Noncompliance by the Permittee with any condition of the permit;
- b. The Permittee's failure in the application or during the permit issuance process to disclose fully all relevant facts, or the Permittee's misrepresentation of any relevant facts at any time;
- c. A determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination; or
- d. A change in any condition that requires either a temporary or a permanent reduction or elimination of any discharge controlled by the permit (for example, a plant closure or termination of discharge by connection to a POTW).

24. Availability of Reports - [Pursuant to A.R.S. § 49-205]

Except for data determined to be confidential under A.R.S. § 49-205(A), all reports prepared in accordance with the terms of this permit shall be available for public inspection at ADEQ offices. As required by A.R.S. § 49-205(B) and (C), permit applications, permits, and effluent data shall not be considered confidential.

25. Removed Substances - [Pursuant to Clean Water Act Section 301]

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering navigable waters.

26. Severability - [Pursuant to A.R.S. § 49-324(E)]

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 remainder of this permit, shall not be affected thereby.

27. Civil and Criminal Liability - [Pursuant to A.R.S. § 49-262, 263.01, and 263.02]

Except as provided in permit conditions on "Bypass" (Section 14) and "Upset" (Section 15), nothing in this permit shall be construed to relieve the Permittee from civil or criminal penalties for noncompliance.

28. Oil and Hazardous Substance Liability - [Pursuant to Clean Water Act Section 311].

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the operator from any responsibilities, liabilities, or penalties established pursuant to any applicable State or Tribal law or regulation under authority preserved by Section 510 of the Clean Water Act.

29. State or Tribal Law - [Pursuant to R 18-9-A904 (C)].

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the operator from any responsibilities, liabilities, or penalties established pursuant to any applicable State or Tribal law or regulation under authority preserved by Section 510 of the Clean Water Act.