ADEQ Inventory No. 100620 Permit No. AZ0025607
LTF No. 73614 Place ID No. 1003

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 2.1; the Federal Water Pollution Control Act, (33 USC§1251 et. seq., as amended), and Arizona Administrative Code (A.A.C.) Title 18, Chapter 9, Articles 9 and 10, and amendments thereto,

City of Nogales
777 Grand Avenue
Nogales, Arizona 85621
and
International Boundary and Water Commission, U.S. Section (USIBWC)
4171 N. Mesa Street, C-100
El Paso, Texas 79902

(Permittees) are authorized to discharge treated domestic wastewater from the Nogales International Wastewater Treatment Plant (Facility) located at 865 Rio Rico Industrial Park, Rio Rico, Arizona, serving 1.) the cities of Nogales and Rio Rico in Santa Cruz County, Arizona, and 2.) the City of Nogales, in Sonora Mexico to an unnamed wash, tributary to Santa Cruz River in the Santa Cruz Basin at:

Outfall No.	Latitude	Longitude	Legal
001	31˚ 27’ 20.86” N	110˚ 58’ 05.34” W	Township 23S, Range 13E, Section 12

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. The permitted flow for fee calculation is 17,000,000 gallons per day (gpd).

This permit shall become effective on _____, 2019.

This permit and the authorization to discharge shall expire at midnight, _____, 2024.

Signed this _____ day of _____, 2019.

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

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PART I – EFFLUENT AND INFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Effluent Limitations and Monitoring Requirements

The Permittees shall limit and monitor discharges from Outfall 001 as specified in Table 1 which follows. These requirements are based on a design capacity of 17 MGD.

Table 1. Effluent Limitations and Monitoring Requirements

Parameter	Maximum Allowable Discharge Limitations						Monitoring Requirement (2)(3)	
	Mass Limits (1)			Concentration Limits				
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum	Monitoring Frequency	Sample Type
Discharge Flow (MGD)	REPORT (4)		REPORT				Continuous	Metered
Biochemical Oxygen Demand (BOD) (5-day)	2000 kg/day	2900 kg/day		30 mg/L	45 mg/L		1x/2 weeks	24-hour Composite (5)
BOD (6)				85% REMOVAL MINIMUM			1x/2 weeks	24-hour Composite
Total Suspended Solids (TSS)	2000 kg/day	2900 kg/day		30 mg/L	45 mg/L		1x/2 weeks	24-hour Composite
TSS (6)				85% REMOVAL MINIMUM			1x/2 weeks	24-hour Composite
E. coli				126 cfu/100 mL (7)		575 cfu/100 mL (7)	4x /month	Discrete
Chlorine, Total Residual (TRC) (8) (9)	580 g/day		1200 g/day	9.0 µg/L		18 µg/L	1x/2 weeks	Discrete
Ammonia (10)				Report		Report	2x/month	Discrete
Ammonia Impact Ratio (AIR) (9)(10)				1		2	2x/month	Discrete
Chromium (Total)				Report		Report	1x/2 weeks	24-hour Composite
Chromium VI (12)	520 g/day		1030 g/day	8.0 µg/L		16 µg/L	1x/2 weeks	Discrete
Copper (11)	590 g/day		990 g/day	9.2 µg/L		15 µg/L	1x/2 weeks	24-hr Composite
Cyanide	510 g/day		1030 g/day	7.9 µg/L		16 µg/L	1x/2 weeks	24-hr Composite
Lead (11)	163 g/day		327 g/day	2.53 µg/L		5.08 µg/L	1x/2 weeks	24-hr Composite
Mercury	0.64 g/day		1.3 g/day	0.01 µg/L		0.02 µg/L	1x/2 weeks	Discrete
Nickel (11)	3220 g/day		6440 g/day	50.0 µg/L		100 µg/L	1x/2 weeks	24-hr Composite
Selenium	100 g/day		200 g/day	2 µg/L		3 µg/L	1x/2 weeks	24-hr Composite

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Parameter	Maximum Allowable Discharge Limitations						Monitoring Requirement (2)(3)	
	Mass Limits (1)			Concentration Limits				
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum	Monitoring Frequency	Sample Type
Hardness (11)				Report		Report	1x/2 weeks	24-hr Composite
Benzo(a)pyrene (PAH)	13 g/day		19 g/day	0.2 µg/L		0.3 µg/L	1x/Quarter	24-hr Composite
DDD	0.064 g/day		0.129 g/day	0.001 µg/L		0.002 µg/L	1x/Quarter	24-hr Composite
DDE	0.064 g/day		0.129 g/day	0.001 µg/L		0.002 µg/L	1x/Quarter	24-hr Composite
DDT	0.064 g/day		0.129 g/day	0.001 µg/L		0.002 µg/L	1x/Quarter	24-hr Composite
Endrin Aldehyde	1.9 g/day		4.5 g/day	0.03 µg/L		0.07 µg/L	1x/Quarter	24-hr Composite
Heptachlor	0.64 g/day		1.3 g/day	0.01 µg/L		0.02 µg/L	1x/Quarter	24-hr Composite
Heptachlor epoxide	0.64 g/day		1.3 g/day	0.01 µg/L		0.02 µg/L	1x/Quarter	24-hr Composite
Polychlorinated BiPhenyls (PCBs)	1.0 g/day		2.1 g/day	0.016 µg/L		0.033 µg/L	1x/Quarter	24-hr Composite
2, 3, 7, 8 – (TCDD)	0.058 g/day		0.084 g/day	0.0009 µg/L		0.0013 µg/L	1x/Quarter	24-hr Composite
Toxaphene	0.013 g/day		0.019 g/day	0.0002 µg/L		0.0003 µg/L	1x/Quarter	24-hr Composite
Chronic Toxicity *Pseudokirchneriella subcapitata* (Green algae)				See Table 3 for limits		See Table 3 for limits	1x/Quarter	24-hr Composite
Chronic Toxicity *Pimephales promelas* (Fathead minnow)				See Table 3 for limits		See Table 3 for limits	1x/Quarter	24-hr Composite
Chronic Toxicity *Ceriodaphnia dubia* (Water flea)				See Table 3 for limits		See Table 3 for limits	1x/Quarter	24-hr Composite
pH (9)	Not less than 6.5 standard units (S.U.) nor greater than 9.0 S.U.						1x/week	Discrete

Footnotes

1 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.

2 Testing must coincide with the Whole Effluent Toxicity Test (WET) samples, if any, taken during that monitoring period as per Part I.C, Table 3 of the permit. See Part IV of the permit.

3 If discharge is infrequent, see Part I.D for minimum effluent characterization monitoring requirements.

4 Monitoring and reporting required. No limit set at this time. In addition to the average and maximum flows reported on the Discharge Monitoring forms, daily discharge flow shall be recorded on the **Discharge Flow Record** provided in Appendix B. See Part II.B for reporting requirements.

5 For the purposes of this permit, a "24-hour composite" sample has been defined as a mixture of discrete equal volume aliquots obtained over a period of 24 hours at a frequency of one aliquot per each 0.5 MGD (500,000 gallons) discharged.

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6 Both the influent and the effluent shall be monitored.
7 cfu = colony forming units; "most probable number" (mpn) is considered equivalent for reporting purposes. The monthly average for *E. coli* is calculated as a geometric mean. A minimum of 4 samples are required in order to report a geometric mean. See the definition for "Monthly or Weekly Average Concentration Limit" in Appendix A.
8 Sample when chlorine or bromine compounds are used for disinfection. See Part II.A.6 for specific monitoring requirements for chlorine.
9 pH and TRC 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.
10 The ammonia limit is dependent on pH and temperature. The effluent must be tested for pH and temperature at the same time that the ammonia samples are taken. In addition to reporting the ammonia values on the DMRs, the ammonia data log shall also be completed including values of the effluent pH and temperature at the time the ammonia sample is taken. See Part II.B of the permit.
11 WQBELs listed are based on the average effluent hardness of 121 mg/L as $CaCO_3$. The effluent must be tested for hardness at the same time that these metal samples are taken. Please see the hardness definition in Appendix A, Part B.
12 All metals effluent limits are for total recoverable metals, except for chromium VI, for which the limits listed are dissolved.

B. Trace Substance Monitoring

The Permittees 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 Permittees 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 - Monitoring

Parameter	**Assessment Levels** (1) (2)		**Monitoring Requirements** (3) (4)	
	Monthly Average	Daily Maximum	Monitoring Frequency	Sample Type
Oil & Grease	10 mg/L	15 mg/L	1x/Month	Discrete
Benzidine	0.01 µg/L	0.01 µg/L	1x/Quarter	24-hr Composite
Benz(a)anthracene (PAH)	0.2 µg/L	0.29 µg/L	1x/Quarter	24-hr Composite
3,3'- Dichlorobenzidine	3.0 µg/L	4.4 µg/L	1x/Quarter	24-hr Composite
N-nitrosodimethylamine	0.04 µg/L	0.03 µg/L	1x/Quarter	24-hr Composite
Endrin	0.066 µg/L	0.032 µg/L	1x/Quarter	24-hr Composite

Footnotes

1 Concentration values are calculated based on Arizona Water Quality Standards. Monitoring and reporting required.
2 Testing must coincide with the Whole Effluent Toxicity Test (WET) samples, if any, taken during that monitoring period as per Part I.C, Table 3 of the permit. See Part IV of the permit.

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C. Whole Effluent Toxicity Monitoring

The Permittees shall monitor discharges from Outfall 001 for Whole Effluent Toxicity (WET) as specified in Table 3 which follows. If toxicity is detected above a Permit Limit specified as follows, the Permittees must perform follow-up testing and, as applicable, follow the TIE/TRE processes in Part IV.D of the permit.

Table 3 – WET Testing

Effluent Characteristic (1)	**Maximum Allowable Discharge Limits**		**Monitoring Requirements**	
	Daily Maximum (2) (3)	Monthly Median (3)	Monitoring Frequency (4)	Sample Type
Chronic Toxicity *Pseudokirchneriella subcapitata* (Green algae) (5)	1.6 TUc	1.0 TUc	1x/Quarter	24-hr Composite
Chronic Toxicity *Pimephales promelas* (Fathead minnow)	1.6 TUc	1.0 TUc	1x/Quarter	24-hr Composite
Chronic Toxicity *Ceriodaphnia dubia* (Water flea)	1.6 TUc	1.0 TUc	1x/Quarter	24-hr Composite

Footnotes

1 See Part IV for additional requirements for testing and reporting Whole Effluent Toxicity (WET).
2 Since completion of one chronic WET test takes more than 24 hours, the daily maximum is considered to be the highest allowable test result.
3 If chronic toxicity is detected above the limits in this table, the Permittees must perform follow-up testing. See Part IV for details.
4 If discharge is infrequent see Part I.D for minimum effluent characterization monitoring requirements.
5 Formerly known as *Selenastrum capricornutum or Raphidocelis subcapitata.*

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D. Effluent Characterization Testing

The Permittees shall monitor to characterize the facility's effluent for the parameters listed in Tables 4.a - f, whether discharging or not. When the facility discharges, monitoring is to be conducted at the frequency indicated in Tables 1 through 3. 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 Permittees 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 4.a – Effluent Characterization Testing – General Chemistry and Microbiology

Parameter	Reporting Units	Monitoring Requirements	
		Monitoring Frequency (1)	Sample Type
Ammonia (as N) (2)	mg/L	1x/Quarter	Discrete
Biochemical Oxygen Demand (BOD-5)	mg/L	1x/Quarter	24-hour Composite
Chlorine, Total Residual (TRC) (4)(5)	µg/L	1x/Quarter	Discrete
Dissolved Oxygen (5)	mg/L	1x/Quarter	Discrete
E. coli	cfu/100 mL (3)	1x/Quarter	Discrete
Nitrate/Nitrite (as N)	mg/L	1x/Quarter	24-hour Composite
Nitrogen, Total Kjeldahl (TKN)	mg/L	1x/Quarter	24-hour Composite
Oil and Grease	mg/L	1x/Quarter	Discrete
pH (5)	S.U.	1x/Quarter	Discrete
Phosphorus	mg/L	1x/Quarter	24-hour Composite
Temperature (5)	°Celsius	1x/Quarter	Discrete
Total Dissolved Solids (TDS)	mg/L	1x/Quarter	24-hour Composite
Total Suspended Solids (TSS)	mg/L	1x/Quarter	24-hour Composite

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 4.a. requirements.

2 When sampling for ammonia, temperature and pH must be determined concurrently and the results recorded on the **Ammonia Data Log** provided in Appendix C. See Part II.B for reporting requirements.

3 cfu = colony forming units; "most probable number" (mpn) is considered equivalent for reporting purposes

4 Sample when chlorine or bromine compounds are used for disinfection. See Part II.A.6 for specific monitoring requirements for chlorine

5 Temperature, pH, TRC and dissolved oxygen must be measured at the time of sampling and do not require use of a certified laboratory. See Part II.A.6 for methods of analyses for chlorine. 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.

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Table 4.b – Effluent Characterization Testing – Selected Metals, Trace Substances and WET

Parameter (1)	Reporting Units	Monitoring Requirements	
		Monitoring Frequency (2)	Sample Type
Antimony	µg/L	1x/Quarter	24-hour Composite
Arsenic	µg/L	1x/Quarter	24-hour Composite
Beryllium	µg/L	1x/Quarter	24-hour Composite
Cadmium	µg/L	1x/Quarter	24-hour Composite
Chromium (5)	µg/L	1x/Quarter	24-hour Composite
Chromium VI (5)	µg/L	1x/Quarter	Discrete
Copper	µg/L	1x/Quarter	24-hour Composite
Iron	µg/L	1x/Quarter	24-hour Composite
Lead	µg/L	1x/Quarter	24-hour Composite
Mercury	µg/L	1x/Quarter	Discrete
Nickel	µg/L	1x/Quarter	24-hour Composite
Selenium	µg/L	1x/Quarter	24-hour Composite
Silver	µg/L	1x/Quarter	24-hour Composite
Thallium	µg/L	1x/Quarter	24-hour Composite
Zinc	µg/L	1x/Quarter	24-hour Composite
Hardness	mg/L	1x/Quarter	24-hour Composite
Cyanide	µg/L	1x/Quarter	Discrete
Whole Effluent Toxicity - chronic (all 3 species) (3)	TUc	4x/permit term (4)	24-hour Composite

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 4.b. requirements.
3 If chronic toxicity is detected above the limits specified in Table 3, the Permittees must perform follow-up testing and, as applicable, follow the TIE/TRE processes in Part IV.E of the permit, whether discharging or not. See Part IV for additional information on requirements for testing and reporting Whole Effluent Toxicity (WET).
4 Four tests shall be conducted during the permit term: once per year in years 1, 2, 3, and 4 of the permit term.
5 If total chromium exceeds 8 µg/L, the Permittees must conduct sampling for chromium VI for the remainder of the permit. Otherwise, monitoring for chromium III and/or chromium VI is not required.

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Table 4.c – Effluent Characterization Testing – Selected Volatile Organic Compounds

Parameter	Reporting Units	Monitoring Requirements	
		Monitoring Frequency	Sample Type
Acrolein	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
Acrylonitrile	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
Benzene	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
Bromoform	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
Carbon tetrachloride	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
Chlorobenzene	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
Chlorodibromomethane	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
Chloroethane	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
2-chloroethylvinyl ether	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
Chloroform	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
Dichlorobromomethane	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
1,1-dichloroethane	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
1,2-dichloroethane	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
Trans-1,2-dichloroethylene	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
1,1-dichloroethylene	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
1,2-dichloropropane	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
1,3-dichloropropylene	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
Ethylbenzene	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
Methyl bromide	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
Methyl chloride	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
Methylene chloride	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
1,1,2,2-tetrachloroethane	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
Tetrachloroethylene	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
Toluene	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
1,1,1-trichloroethane	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
1,1,2-trichloroethane	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
Trichloroethylene	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
Vinyl chloride	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete

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Table 4.d – 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 2020,2021,2023 of permit term	24-hour Composite
2-chlorophenol	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
2,4-dichlorophenol	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
2,4-dimethylphenol	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
4,6-dinitro-o-cresol	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
2,4-dinitrophenol	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
2-nitrophenol	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
4-nitrophenol	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Pentachlorophenol	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Phenol	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
2,4,6- trichlorophenol	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite

Table 4.e – Effluent Characterization Testing – Selected Base Neutral Compounds

Parameter	Reporting Units	Monitoring Requirements	
		Monitoring Frequency	Sample Type
Acenaphthene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Acenaphthylene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Anthracene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Benzidine	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Benzo(a)anthracene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Benzo(a)pyrene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
3,4 benzofluoranthene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Benzo(ghi)perylene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Benzo(k)fluoranthene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Bis (2-chloroethoxy) methane	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Bis (2-chloroethyl) ether	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Bis(2-chloroisopropyl) ether	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Bis (2-ethylhexyl) phthalate	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
4-bromophenyl phenyl ether	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Butyl benzyl phthalate	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
2-chloronaphthalene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
4-chlorophenyl phenyl ether	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Chrysene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Di-n-butyl phthalate	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Di-n-octyl phthalate	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite

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Parameter	Reporting Units	Monitoring Requirements	
		Monitoring Frequency	Sample Type
Dibenzo(a,h)anthracene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
1,2-dichlorobenzene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
1,3-dichlorobenzene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
1,4-dichlorobenzene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
3,3-dichlorobenzidine	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Diethyl phthalate	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Dimethyl phthalate	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
2,4-dinitrotoluene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
2,6-dinitrotoluene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
1,2-diphenylhydrazine	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Fluoranthene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Fluorene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Hexachlorobenzene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Hexachlorobutadiene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Hexachlorocyclopentadiene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Hexachloroethane	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Indeno(1,2,3-cd)pyrene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Isophorone	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Naphthalene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Nitrobenzene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
N-nitrosodi-n-propylamine	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
N-nitrosodimethylamine	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
N-nitrosodiphenylamine	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Phenanthrene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Pyrene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
1,2,4-trichlorobenzene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite

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Table 4.f – Effluent Characterization Testing - Based on Designated Users

Additional Parameters from the Arizona Surface Water Quality Standards, Appendix A; Table 1			
Parameter	**Reporting Units**	**Monitoring Requirements**	
		Monitoring Frequency	**Sample Type**
Alachlor (1)	µg/L	1x /year in years 2022 and 2023 of permit term	24-hour Composite
Aldrin	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Asbestos –	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Atrazine (1)	µg/L	1x//year in years 2021 and 2022 of permit term	24-hour Composite
Barium	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Boron	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Carbofuran (Furadan) (1)	µg/L	1x /year in years 2021 and 2022 of permit term	24-hour Composite
Chlordane	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
1,2-cis-Dichloroethylene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Chlorpyrifos	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Dalapon (1)	µg/L	1x /year in years 2021 and 2022 of permit term	24-hour Composite
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
1,2-Dibromoethane (EDB) Ethylene dibromide	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
4,4-DD (p,p,-Dichlorodiphenyldicholoroethane)	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
4,4-DDE (p,p-Dichlorodiphenyldichloroethylene)	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
4,4-DDT ((p,p-Dichlorodiphenyltrichloroethane)	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
2,4-Dichlorophenoxyacetic acid (2,4-D) (1)	µg/L	1x /year in years 2021and 2022 of permit term	24-hour Composite
Dieldrin	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Di (2-ethylhexyl) adipate	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Dinoseb (1)	µg/L	1x /year in years 2021and 2022 of permit term	24-hour Composite
Diquat (1)	µg/L	1x /year in years 2021and 2022 of permit term	24-hour Composite
Endosulfan sulfate	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Endosulfan (Total)	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Endothall (1)	µg/L	1x /year in years 2021and 2022 of permit term	24-hour Composite
Endrin	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Endrin aldehyde	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Fluoride	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Glyphosate (1)	µg/L	1x /year in years 2021and 2022 of permit term	24-hour Composite
Guthion	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Heptachlor	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Heptachlor epoxide	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Hexachlorocyclohexane alpha (Alpha-BHC)	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite

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Additional Parameters from the Arizona Surface Water Quality Standards, Appendix A; Table 1			
Parameter	**Reporting Units**	**Monitoring Requirements**	
		Monitoring Frequency	**Sample Type**
Hexachlorocyclohexane beta	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Hexachlorocyclohexane delta	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Hexachlorocyclohexane gamma (lindane)	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Hydrogen Sulfide	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
Iron	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Malathion	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Manganese	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Methoxychlor (1)	µg/L	1x /year in years 2021and 2022 of permit term	24-hour Composite
Mirex (3)	µg/L	1x /year in years 2021and 2022 of permit term	24-hour Composite
Oxamyl (1)	µg/L	1x /year in years 2021and 2022 of permit term	24-hour Composite
Parathion	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Paraquat	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Permethrin (3)	µg/L	1x /year in years 2021and 2022 of permit term	24-hour Composite
Pichloram (1)	µg/L	1x /year in years 2021and 2022 of permit term	24-hour Composite
Polychlorinated biphenyls (PCBs)	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Simazine (1)	µg/L	1x /year in years 2021and 2022 of permit term	24-hour Composite
Styrene	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
Sulfides (2)	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
2,3,7,8-Tetrachlorodibenzo-p-dioxin	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Toxaphene	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
2-(2,4,5,-Trichlorophenoxy) Proprionic Acid (1)	µg/L	1x /year in years 2021and 2022 of permit term	24-hour Composite
Total Trihalomethanes	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete
Tributyltin (3)	µg/L	1x /year in years 2021and 2022 of permit term	24-hour Composite
Uranium	µg/L	1x /year in years 2020,2021,2023 of permit term	24-hour Composite
Xylenes	µg/L	1x /year in years 2020,2021,2023 of permit term	Discrete

Footnotes

1 There may be no approved wastewater methods for analyses of these parameters in 40 CFR 136. As such, 500 series drinking water Methods may be used; in this case, a 10X sample dilution is acceptable for these parameters. Appropriate data qualifiers are to be used.

2 If no ADHS-certified analytical methods exist for these parameters, monitoring is not required.

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E. Additional Influent Monitoring and Reporting Requirements for the USIBWC

1. The USIBWC shall monitor pollutants in the influent from Mexico at the International Outfall Interceptor (IOI), Manhole No. 1, as specified in Table 5 which follows. Monitoring results above the Influent Mass Limits triggers the USIBWC to complete the actions listed in Part V.D. The USIBWC may demonstrate compliance with the Influent Mass Limits by complying with provisions V.B-D. of this permit and demonstrating improvement in reducing the frequency and magnitude of any Influent Mass Limit exceedances on an annual basis.

Table 5 - Influent Limitations at IOI, Manhole No. 1

Pollutants of Concern	**Influent Mass Limits(lb/Mgal) (2)**	**Monitoring Frequency (4)**	**Sample Type (3)**
	Daily Maximum		
Arsenic (1)	0.156	30 consecutive daily samples / Quarter	24-hr Composite
Cadmium (1)	0.028	30 consecutive daily samples / Quarter	24-hr Composite
Chromium (1)	0.114	30 consecutive daily samples / Quarter	24-hr Composite
Copper (1)	0.858	30 consecutive daily samples / Quarter	24-hr Composite
Cyanide (1)	0.341	30 consecutive daily samples / Quarter	Discrete
Lead (1)	0.10	30 consecutive daily samples / Quarter	24-hr Composite
Mercury (1)	0.006	30 consecutive daily samples / Quarter	24-hr Composite
Nickel (1)	0.938	30 consecutive daily samples / Quarter	24-hr Composite
Selenium (1)	0.038	30 consecutive daily samples / Quarter	24-hr Composite
Silver (1)	0.125	30 consecutive daily samples / Quarter	24-hr Composite
Zinc (1)	1.814	30 consecutive daily samples / Quarter	24-hr Composite
1,4 - Dichlorobenzene	0.601	30 consecutive daily samples / Quarter	Discrete

Footnotes

1 All metal influent limits are for total recoverable metals.
2 Lb/Mgal means pounds per million gallons.
3 For the purposes of this permit, a "24-hour composite" sample has been defined as a flow-proportioned mixture of not less than three discrete samples (aliquots) obtained at equal time intervals during a 24-hour period. The volume of each aliquot shall be directly proportional to the discharge flow rate at the time of sampling.
4 Monitoring shall coincide with effluent monitoring in Table 1 Effluent Limitations and Monitoring Requirements.

2. Concurrent with the sampling specified in Section E.1 above, the USIBWC shall collect and analyze 30 consecutive daily samples per quarter of the Facility influent and effluent for the parameters listed in Table 5 at the following locations:

    a. Influent samples shall be taken after the last addition to the collection system, at a location upstream of any in-plant return flow, recycle flows, or the addition of treatment chemicals, and prior to the first treatment process.
    b. Effluent samples shall be taken downstream from the last treatment process.

3. Concurrent with the sampling specified in Section E.1 and E.2 above, the USIBWC shall measure redox potential at the IOI, Manhole No. 1 and the Facility influent and effluent following the sample types listed in Table 5. The USIBWC shall measure influent flow at the IOI, Manhole No. 5.

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4. The USIBWC shall monitor and conduct annual sampling and analysis of the Facility influent for the remaining toxic pollutants, as specified in Table 6 which follows.

Table 6 - The Facility Influent Monitoring

Parameter (1)	**Reporting Units**	**Monitoring Requirements**	
		Monitoring Frequency (2)	**Sample Type**
Aluminum	µg/L	1x/Year	24-hour Composite
Antimony	µg/L	1x/Year	24-hour Composite
Barium	µg/L	1x/Year	24-hour Composite
Bervllium	µg/L	1x/Year	24-hour Composite
Boron	µg/L	1x/Year	24-hour Composite
Thallium	µg/L	1x/Year	24-hour Composite
Acrolein	µg/L	1x/Year	24-hour Composite
Acrylonitrile	µg/L	1x/Year	24-hour Composite
Benzene	µg/L	1x/Year	24-hour Composite
Bromoform	µg/L	1x/Year	24-hour Composite
Bromodichloromethane	µg/L	1x/Year	24-hour Composite
Carbon tetrachloride	µg/L	1x/Year	24-hour Composite
Chlorobenzene	µg/L	1x/Year	24-hour Composite
Chlorodibromomethane	µg/L	1x/Year	24-hour Composite
Chloroethane	µg/L	1x/Year	24-hour Composite
2-chloroethylvinyl ether	µg/L	1x/Year	24-hour Composite
Chloroform	µg/L	1x/Year	24-hour Composite
1,1-dichloroethane	µg/L	1x/Year	24-hour Composite
1,2-dichloroethane	µg/L	1x/Year	24-hour Composite
1,2-Trans-dichloroethylene	µg/L	1x/Year	24-hour Composite
1,1-Dichloroethylene	µg/L	1x/Year	24-hour Composite
1,2-Dichloropropane	µg/L	1x/Year	24-hour Composite
Dichlorodifluoromethane	µg/L	1x/Year	24-hour Composite
Dichloromethane (MethYlene Chloride)	µg/L	1x/Year	24-hour Composite
EthYlbenzene	µg/L	1x/Year	24-hour Composite
Methvlbromide	µg/L	1x/Year	24-hour Composite
Methyl chloride	µg/L	1x/Year	24-hour Composite
1,1,2,2-Tetrachloroethane	µg/L	1x/Year	24-hour Composite
Tetrachloroethylene	µg/L	1x/Year	24-hour Composite
Toluene	µg/L	1x/Year	24-hour Composite
1,1,1-Trichloroethane	µg/L	1x/Year	24-hour Composite

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Parameter (1)	Reporting Units	Monitoring Requirements	
		Monitoring Frequency (2)	Sample Type
1,1,2-Trichloroethane	µg/L	1x/Year	24-hour Composite
Trichloroethvlene	µg/L	1x/Year	24-hour Composite
Trichlorofluoromethane	µg/L	1x/Year	24-hour Composite
Tetrachloroethene (PERC)	µg/L	1x/Year	24-hour Composite
Vinyl chloride	µg/L	1x/Year	24-hour Composite
o-Chloro-m-cresol	µg/L	1x/Year	24-hour Composite
2-Chloroohenol	µg/L	1x/Year	24-hour Composite
2,4-Dichloroohenol	µg/L	1x/Year	24-hour Composite
Nitrate	µg/L	1x/Year	24-hour Composite
2,4-Dimethylphenol	µg/L	1x/Year	24-hour Composite
4,6-Dinitro-o-cresol	µg/L	1x/Year	24-hour Composite
2,4-Dinitrophenol	µg/L	1x/Year	24-hour Composite
p-Nitrophenol	µg/L	1x/Year	24-hour Composite
4-Nitrophenol	µg/L	1x/Year	24-hour Composite
Phenol	µg/L	1x/Year	24-hour Composite
2,4,6-Trichloroohenol	µg/L	1x/Year	24-hour Composite
Acenaphthene	µg/L	1x/Year	24-hour Composite
Anthracene	µg/L	1x/Year	24-hour Composite
Benzidine	µg/L	1x/Year	24-hour Composite
Benzo(a)pyrene	µg/L	1x/Year	24-hour Composite
3,4-Benzofluoranthene	µg/L	1x/Year	24-hour Composite
Bis(2-chloroethyl)ether	µg/L	1x/Year	24-hour Composite
Bis(2-chloroisoorooyl)ether	µg/L	1x/Year	24-hour Composite
4-BromoohenYI ohenyl ether	µg/L	1x/Year	24-hour Composite
o-Bromodiohenvl ether	µg/L	1x/Year	24-hour Composite
2-Chloronaohthalene	µg/L	1x/Year	24-hour Composite
Butyl benzyl phthalate	µg/L	1x/Year	24-hour Composite
Di-n-butYlohthalate	µg/L	1x/Year	24-hour Composite
1,2-Dichlorobenzene	µg/L	1x/Year	24-hour Composite
1,3-Dichlorobenzene	µg/L	1x/Year	24-hour Composite
3,3-Dichlorobenzidine	µg/L	1x/Year	24-hour Composite
Pentachlorophenol	µg/L	1x/Year	24-hour Composite
Chlorobenzene	µg/L	1x/Year	24-hour Composite

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Parameter (1)	Reporting Units	Monitoring Requirements	
		Monitoring Frequency (2)	Sample Type
DiethYl ohthalate	µg/L	1x/Year	24-hour Composite
Dimethvl ohthalate	µg/L	1x/Year	24-hour Composite
2,4-Dinitrotoluene	µg/L	1x/Year	24-hour Composite
2,6-Dinitrotoluene	µg/L	1x/Year	24-hour Composite
1,2-Diphenylhydrazine	µg/L	1x/Year	24-hour Composite
Fluoranthene	µg/L	1x/Year	24-hour Composite
Fluorene	µg/L	1x/Year	24-hour Composite
Fluoride	µg/L	1x/Year	24-hour Composite
Fluorine	µg/L	1x/Year	24-hour Composite
Hexachlorobenzene	µg/L	1x/Year	24-hour Composite
Hexachlorobutadiene	µg/L	1x/Year	24-hour Composite
Hexachlorocyclo-oentadiene	µg/L	1x/Year	24-hour Composite
Hexachloroethane	µg/L	1x/Year	24-hour Composite
lsoohorone	µg/L	1x/Year	24-hour Composite
Bis(2-ethylhexvl)ohthalate	µg/L	1x/Year	24-hour Composite
Nitrite	µg/L	1x/Year	24-hour Composite
Naphthalene	µg/L	1x/Year	24-hour Composite
Chloronaphthalene beta	µg/L	1x/Year	24-hour Composite
Nitrobenzene	µg/L	1x/Year	24-hour Composite
N-nitrosodiphenylamine	µg/L	1x/Year	24-hour Composite
Pvrene	µg/L	1x/Year	24-hour Composite
1,2,4-Trichlorobenzene	µg/L	1x/Year	24-hour Composite
Atrazine	µg/L	1x/Year	24-hour Composite
Aldrin	µg/L	1x/Year	24-hour Composite
Alachlor	µg/L	1x/Year	24-hour Composite
Carbofuran	µg/L	1x/Year	24-hour Composite
Chlordane	µg/L	1x/Year	24-hour Composite
4,4'-DDD	µg/L	1x/Year	24-hour Composite
4,4'-DDE	µg/L	1x/Year	24-hour Composite
4,4'-DDT	µg/L	1x/Year	24-hour Composite
2,4-Dichloroohenoxyacetic acid (2,4-Dl	µg/L	1x/Year	24-hour Composite
Cis-1,3-Dichlorooropene	µg/L	1x/Year	24-hour Composite
Dieldrin	µg/L	1x/Year	24-hour Composite

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Parameter (1)	Reporting Units	Monitoring Requirements	
		Monitoring Frequency (2)	Sample Type
Endosulfan sulfate	µg/L	1x/Year	24-hour Composite
Endosulfan I	µg/L	1x/Year	24-hour Composite
Endosulfan II	µg/L	1x/Year	24-hour Composite
Endrin	µg/L	1x/Year	24-hour Composite
Endrin aldehyde	µg/L	1x/Year	24-hour Composite
Heptachlor	µg/L	1x/Year	24-hour Composite
Phenanthrene (PAH)	µg/L	1x/Year	24-hour Composite
Heotachlor epoxide	µg/L	1x/Year	24-hour Composite
Alpha-BHC	µg/L	1x/Year	24-hour Composite
Beta-BHC	µg/L	1x/Year	24-hour Composite
Delta-BHC	µg/L	1x/Year	24-hour Composite
Gamma-BHC(Lindane)	µg/L	1x/Year	24-hour Composite
Methoxychlor	µg/L	1x/Year	24-hour Composite
PCBs	µg/L	1x/Year	24-hour Composite
Styrene	µg/L	1x/Year	24-hour Composite
Sulfides	µg/L	1x/Year	24-hour Composite
2,3,7,8-TCDD (Dioxin)	µg/L	1x/Year	24-hour Composite
Toxaohene	µg/L	1x/Year	24-hour Composite
2,4,5-TP (Silvex)	µg/L	1x/Year	24-hour Composite
Total XYlenes	µg/L	1x/Year	24-hour Composite
Chlorine, total	µg/L	1x/Year	24-hour Composite
Toluene	µg/L	1x/Year	24-hour Composite

Footnotes

1 All metal analyses are for total recoverable metals.

5. In addition to the reporting requirements in Part II.B. of the permit, the USIBWC shall submit a quarterly report to ADEQ no later than 28 days following the end of each quarter as an attachment with the discharge monitoring report (DMR)s which includes all the test results required by this part for the monitoring conducted during that quarter. This report shall include a summary of the monitoring results, a comparison of the influent monitoring results with the influent limits in Table 5 above, and a comparison of the effluent monitoring results with the applicable effluent limits in Part I.A, Table 1 of this permit, if any.

6. The USIBWC may, but is not required to, conduct a pilot test using real-time influent monitoring technology. Upon successful completion of the pilot test, the USIBWC may propose alternative influent monitoring using the real-time monitoring method and request a reduction or substitution of the monitoring requirements specified in subsections a - d above. No reduction in monitoring is authorized

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until approval by ADEQ is received in writing.

7. The USIBWC may, in its sole discretion, choose to provide additional treatment at the treatment plant as necessary to ensure that the effluent limits in Part I.A and C and the biosolids ceiling concentrations in Part III.J.1 of this permit are met. If this option is selected, a modification of the permit may be requested to remove the monitoring requirements and influent limits in Part I.E above and reduce the remaining monitoring and reporting requirements in Part I.E as appropriate.

F. The discharge shall be free from pollutants in amounts or combinations that:

1. Settle to form bottom deposits that inhibit or prohibit the habitation, growth or propagation of aquatic life;
2. Cause objectionable odor in the area in which the surface water is located;
3. Cause off-flavor in aquatic organisms;
4. Are toxic to humans, animals, plants or other organisms;
5. 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. 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.

H. The discharge shall not cause an increase in the ambient water temperature of more than 3.0 degrees Celsius.

I. The discharge shall not cause the dissolved oxygen concentration in the receiving water to fall below 3 mg/L from 3 hours after sunrise to sunset and 1 mg/l from sunset to 3 hours after sunrise, unless the percent saturation of oxygen remains equal to or greater than 90%.

J. Samples taken for the monitoring requirements specified in Part I shall be collected at the following locations:

1. Influent samples shall be taken after the last addition to the collection system and prior to the first treatment process.
2. Effluent samples shall be taken downstream from the last treatment process and prior to mixing with the receiving waters.

PART II – MONITORING AND REPORTING

A. Sample Collection and Analysis

1. The Permittees are responsible for the quality and accuracy of all data required under this permit.
2. Quality Assurance (QA) Manual - The Permittees shall keep a QA Manual on site that describes the sample collection and analyses processes. If the Permittees collect samples or conducts sample analyses in house, the Permittees shall develop a QA Manual that addresses these activities. If a third party collects and/or analyzes samples on behalf of the Permittees, the Permittees 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 a 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 Permittees or the laboratory as a result of problems identified during QC checks.

d. How the Permittees 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.

3. 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 Permittees 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 Permittees or contracted to a third-party.

4. Analytical requirements
a. The Permittees shall use a laboratory licensed by the ADHS Office of Laboratory Licensure and Certification that has demonstrated proficiency within the last 12 months under 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.R.S. 36-495.02(A)(3). (These parameters may include flow, dissolved oxygen, pH, temperature, and total residual chlorine.)

b. The Permittees must utilize analytical methods specified in this permit. If no test procedure is specified, the Permittees 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

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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 Permittees at the time of sampling (see Part II.A.4.a), shall meet quality control standards specified in the approved methods.

d. The Permittees 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 Permittees shall use the approved analytical method with the lowest LOQ.

e. The Permittees shall use a standard calibration curve when applicable to the method, where the lowest standard point is equal to or less than the LOQ.

f. If requested, the Permittees shall participate in the annual NPDES DMR/QA study and submit the results of this study to ADEQ and ADHS for all laboratories used in monitoring compliance with this permit.

5. Mercury Monitoring

The Permittees shall use an ADHS-certified low-level mercury analytical method such as EPA method 245.7 or 1631E to achieve a reporting limit at or below the discharge limitations or assessment levels for mercury as specified in this permit. The Permittees shall also use a “clean hands/dirty hands” sampling technique such as EPA Method 1669 if necessary to achieve these reporting limits.

6. Chlorine Monitoring
Because of the short holding time for chlorine, samples may be analyzed on-site using Hach Method No. 10014. Other methods are also acceptable for chlorine if the Method has a LOQ lower than discharge limits specified in this permit.

7. 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 are dissolved.

B. Reporting of Monitoring Results

1. The Permittees shall report monitoring results from Tables 1 through 6 on Discharge Monitoring Report (DMR) forms supplied by ADEQ, to the extent that the results may be entered on the forms. The Permittees 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 Permittees 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

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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 Permittees shall submit the DMR by February 28th. The Permittees 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. Whole Effluent Toxicity (WET) reports

   c. Original copies of laboratory results

   d. Ammonia data logs

   e. AZPDES discharge flow records

   f. Method detection limit studies

   g. Bench sheets or similar documentation for field testing parameters

   h. Quarterly report per Part 1.E.5 of the permit

3. When sampling the effluent for ammonia, the pH and temperature of the effluent must be recorded at the time of sample collection. Results for all three parameters as well as the applicable ammonia standard and the calculated Ammonia Impact Ratio shall be recorded on the **Ammonia Data Log** provided in Appendix B. The effluent ammonia concentrations, effluent pH and temperature, and calculated ammonia impact ratio shall also be recorded on DMRs. The ammonia data log shall be submitted to ADEQ annually to the address information listed in Part II.B.2, above.

4. If requested to participate, the Permittees 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 Permittees shall also conduct any proficiency testing required by the NPDES DMR-QA Study for those parameters listed in the study that the Permittees analyze 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 Environmental Quality
   Attn: Office of Laboratory Licensure and Certification
   250 North 17th Avenue
   Phoenix, AZ 85007

5. For the purposes of reporting, the Permittees shall use the Limit of Quantitation.

6. For parameters with Daily Maximum Limits or Daily Maximum Assessment Levels in this permit, the Permittees shall review the results of all samples collected during the reporting period and report as follows:

Table 7 - Daily Maximum Limits / Assessment Levels / DMR

For Daily Maximum Limits/Assessment Levels	The Permittees 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 (1)	NODI (Q)
When the maximum value is less than the laboratory's LOD (2)	NODI (B)

Footnotes

1 Not Quantifiable
2 Below Detection

7. For parameters with Monthly Average Limits or Monthly Average Assessment Levels in this permit, the Permittees shall review the results of all samples collected during the reporting period and report.

Table 8 - Monthly Average Limits / Assessment Levels / DMR

For Monthly Average Limits/Assessment Levels		The Permittees 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	All samples collected in the same calendar month must be averaged. •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

8. For all field testing, or if the information below is not included on the laboratory reports required by Part II.B.2, the Permittees shall attach a bench sheet or similar documentation to each DMR that includes, for all analytical results during the reporting period.

   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

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C. Twenty-four Hour Reporting of Noncompliance

1. The Permittees shall orally report any noncompliance which may endanger the environment or human health within 24 hours from the time the Permittees becomes aware of the event to:

   ADEQ 24 hour hotline at (602) 771-2330

   by phone call or voice mail by 9 a.m. on the first business day following the noncompliance.

2. The Permittees shall also notify the Water Quality Division, Surface Water Permits Unit in writing within 5 days of the noncompliance event, using the myDEQ electronic portal provided by ADEQ once available. Until such time, the report shall be submitted to AZPDES@azdeq.gov. The Permittees 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.

3. The following are subject to the 24-hour and 5-day reporting requirements:
   a. An exceedance of any maximum daily limit or assessment level for the parameters listed in Part 1.A Table 1, Part 1.B Table 2, and Part 1.C Table 3.
   b. An exceedance of an influent limit for any of the parameters listed in Part I.E Table 5.
   c. Any unanticipated bypass which exceeds any effluent limitation in the permit.
   d. Any upset which exceeds any effluent limitation in the permit.

D. Monitoring Records

The Permittees shall retain records of the following monitoring information:

1. Date, exact location and time of sampling or measurements performed, preservatives used;

2. Individual(s) who performed the sampling or measurements;

3. Date(s) the analyses were performed;

4. Laboratory(s) which performed the analyses;

5. Analytical techniques or methods used;

6. Chain of custody forms;

7. 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.

8. Summary of data interpretation and any corrective action taken by the Permittees.

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PART III – BIOSOLIDS / SEWAGE SLUDGE REQUIREMENTS

Note: "Biosolids" refers to non-hazardous sewage sludge as defined in 40 CFR 503.9 and Arizona Administrative Code (A.A.C.) R18-9-1001.7. Sewage sludge that is hazardous as defined in 40 CFR 261 must be disposed of in accordance with the Resource Conservation and Recovery Act (RCRA). Sludge with PCB (polychlorinated biphenyls) levels greater than 50 mg/kg must be disposed of in accordance with 40 CFR 761.

A. Specific Use or Disposal Requirements

All biosolids prepared at this facility shall be disposed in a landfill meeting the criteria in 40 CFR 258. If the Permittees want to use or dispose of biosolids by another option, the Permittees shall submit a request for a major modification to the Permit, including the proposed alternative plan for approval by ADEQ and the US EPA. The plan, at a minimum shall include the following:

1. Data from at least three (3) sampling events within the previous year for the metals listed in Section J.1. of this Part;

2. Data from at least one (1) hazardous waste determination as described in Section 1.5. of this Part; and

3. The levels of pathogen reduction and vector attraction reduction that will be achieved, if required for the selected option, and the methods that will be used to achieve those levels.

B. General Use or Disposal Requirements

1. All biosolids/sewage sludge generated and/or prepared at this facility shall be used or disposed of in compliance with the applicable portions of 18 A.A.C. 9, Article 10 and

2. 40 CFR 503 Subpart C: for biosolids that are placed on the land (surface disposal) for the purpose of disposal (dedicated land disposal sites, lagoons, or monofills).

3. 40 CFR 258: for biosolids disposed of in municipal solid waste landfills; and

4. 40 CFR 257: for all biosolids use and disposal practices not covered under 40 CFR 258 or 503.

C. Biosolids Preparer's Responsibility

The Permittees are responsible for ensuring that all biosolids/sewage sludge produced or accepted at this facility are used or disposed of in accordance with 40 CFR 503 Subpart C, 257, 258 and 18 A.A.C. 9, Article 10, as applicable, whether the Permittees use or disposes of the biosolids itself or transfers them to another party for further treatment, use, or disposal. The Permittees are responsible for informing any subsequent transporters, preparers, applicators, and disposers of the requirements that they must meet under 18 A.A.C. 9, Article 10.

D. Duty to Mitigate

The Permittees shall take all reasonable steps to prevent or minimize any biosolids use or disposal which has a likelihood of adversely affecting human health or the environment.

E. General Requirements

The Permittees shall ensure that:

1. No biosolids generated and/or prepared at this facility enter wetlands or other waters of the United States.

2. Biosolids treatment, storage, use or disposal does not contaminate surface water. *(Note: Surface disposal or land treatment sites for biosolids must be permitted under the aquifer protection program per A.A.C. R18-9-1002(E)(2) and may also require a separate AZPDES permit. The Permittees shall*

ensure a site has appropriate permits before directing biosolids to a surface disposal or land treatment site.)

3. Biosolids treatment, storage, and use or disposal does not create a nuisance such as malodorous smell or attraction of flies or other disease carrying vectors.

4. Biosolids generated and/or prepared at this facility are not applied to the land or placed on a surface disposal site if the biosolids are likely to adversely affect a threatened or endangered species as listed under section 4 of the Endangered Species Act (16 U.S.C 1533), or its designated critical habitat as defined in 16 U.S.C. 1532.

F. Biosolids Storage

1. Biosolids shall not be stored on land for over two years from the time they are generated unless permit for surface disposal is obtained per 18 A.A.C. 9, Article 10 and 40 CFR 503 Subpart C, or written notification has been submitted to the Water Quality Division, Surface Water Permits with the information in 40 CFR 503.209(b) that sufficiently demonstrates the need for longer temporary storage.

2. For the protection of public health, biosolids shall not be stored uncovered on-site or off-site unless the Permittees can demonstrate that prior to placement in storage:

   a. Biosolids meet Class A or B pathogen reduction requirements established in A.A.C. R18-9-1006(D) or (E), and

   b. Biosolids meet one of the vector attraction reduction alternatives in A.A.C. R18-9-1010 subsections (A)(1) through (A)(8).

   c. For biosoilds which are classified as EQ or Class A, or as Class B through pathogen reduction Alternative 1, the Permittees must also sample for pathogen reduction following storage and within 30 days prior to reuse/disposal or distribution (see Part III.J.2.d). Sampling before storage shall occur at least at the minimum frequencies given in Part III.I.1, and sampling after storage shall be conducted as specified in Part III.I.4.

3. Prior to storing biosolids at an off-site storage location, the Permittees shall notify the Water Quality Division, Surface Water Permits Unit in writing where the biosolids will be stored. For storage locations within the United States, the permittee will notify the Water Quality Divison, Surface Water Permits Unit in writing the expected date of final use or disposal.

G. Surface Water Protection

The Permittees must design and operate all on-site treatment, disposal, or storage areas for biosolids to:

1. Divert surface run-on from adjacent areas to prevent contact with biosolids;

2. Protect the site bounderies from erosion; and

3. Prevent any drainage that has contacted biosolids from escaping the site.

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These features shall be designed to be protective for at least a 25-year 24-hour storm event. If the Permittees send biosolids off-site that are not EQB, the Permittees shall ensure all treatment, disposal, or storage areas that receive those biosolids have the same level of protection.

H. Facilities with Pretreatment Programs

Permittees with pretreatment programs shall:

1. Sample and analyze biosolids for all the priority pollutants listed under Section 307.a.1 of the Clean Water Act except asbestos. This shall consist of an annual full priority pollutant scan, with quarterly samples analyzed only for those pollutants detected in the full scan.

2. Sample and analyze biosolids quarterly for the following Pollutants of Concern:

Arsenic	Copper	Mercury	Selenium
Cadmium	Cyanide	Molybdenum	Silver
Chromium	Lead	Nickel	Zinc

3. If any biosolids generated and/or prepared at this facility are or will be land applied, the Permittees shall design local limits to achieve the ceiling and monthly average pollutant concentration levels for pollutants given in the table at Part III.J.1.a of this permit. If pollutants in the biosolids exceed any of these monthly average pollutant concentration levels, the Permittees shall revise its local limits as necessary in order to meet these levels.

I. Inspection and Entry

1. Enter upon all premises where biosolids are treated, stored, used, or disposed, either by the Permittees or by another party to whom the Permittees transfers the biosolids for treatment, storage, use, or disposal;

2. Have access to and copy any records that must be kept under the conditions of this permit and per 18 A.A.C. 9, Article 10 (including those in 40 CFR 503 Subpart C) by the Permittees or by another party to whom the Permittees transfers the biosolids for further treatment, storage, use, or disposal; and

3. Inspect any facilities, equipment (including monitoring and control equipment), practices, or operations used in biosolids treatment, storage, use, or disposal by the Permittees or by another party to whom the Permittees transfers the biosolids for treatment, use, or disposal.

J. General Biosolids Monitoring Requirements (dry weight testing)

1. Biosolids Self-monitoring Frequency

Table 9 – Biosolids Self-Monitoring Frequency

Amount of Biosolids Prepared per Calendar Year (dry metric tons)	**Minimum Monitoring Frequency**
>0 to <290	One sampling even per year
≥290 to <1500	One sampling event per quarter
≥1500 to <15,000	One sampling event per 60 days
≥ to 15,000	One sampling event per month

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2. Sampling and Analysis Method

   The Permittees shall ensure biosolids are tested using the methods specified in 40 CFR 503.8, as required in A.A.C. R18-9-1012(G) Testing shall be performed at a laboratory operating in compliance with A.R.S. 36-495. Because of the potential for re-growth of pathogens, for Class A or EQ biosolids, samples demonstrating pathogen reduction shall be taken within 30 days before biosolids are shipped off-site, so verification that requirements are met is obtained before the biosolids leave the site.

3. Representative Sampling

   The Permittees shall ensure that sampling conducted during a monitoring period adequately represents the quality of all biosolids used/treated/disposed over the monitoring period. This may entail taking several samples per sampling event and/or sampling more frequently than the minimum specified

4. Testing for Hazardous Waste Determination

   The Permittees shall test biosolids at least annually, and more frequently as necessary, to determine if biosolids are hazardous in accordance with 40 CFR 261. Initial screening of the biosolids may be conducted by analyzing biosolids for the total amount of a pollutant. This screening test is all that is required each monitoring period if the total amount doesn't exceed the 20X TCLP screening value in the table below. If the total amount of a pollutant exceeds the 20X TCLP screening value, then the leachable amount must be determined using the Toxicity Characteristic Leaching Procedure (TCLP). The disposal of biosolids that test hazardous is not covered under this permit, and all such biosolids must be disposed of in accordance with the Resource Conservation and Recovery Act (RCRA).

Table 10 – Toxicity Characteristic Leaching Procedure Test

Parameter	**TCLP Limit mg/L**	**20 X TCLP Screening Value mg/kg**	**Minimal Monitoring Frequency per Generator**
Metals			
Arsenic	5	100	1x / year
Barium	100	2000	1x / year
Cadmium	1	20	1x / year
Chromium	5	100	1x / year
Lead	5	100	1x / year
Mercury	0.2	4	1x / year
Selenium	1	20	1x / year
Silver	5	100	1x / year
Volatiles and Semi-Volatiles			
Benzene	0.5	10	1x / year
Carbon Tetrachloride	0.5	10	1x / year
Chlorobenzene	100	2000	1x / year
Chloroform	6	120	1x / year
1,2-Dichloroethane	0.5	10	1x / year
1,1-Dichloroethylene	0.7	14	1x / year
Methyl ethyl ketone	200	4000	1x / year

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Parameter	TCLP Limit mg/L	20 X TCLP Screening Value mg/kg	Minimal Monitoring Frequency per Generator
Tetrachloroethylene	0.7	14	1x / year
Trichloroethylene	0.5	10	1x / year
Vinyl Chloride	0.2	4	1x / year
1,4-Dichlorobenzene	7.5	150	1x / year
o-cresol (1)	200	4000	1x / year
m-cresol (1)	200	4000	1x / year
p-cresol (1)	200	4000	1x / year
Cresol (total) (1)	200	4000	1x / year
2,4-Dinitrotoluene	0.13	2.6	1x / year
Hexachlorobenzene	0.13	2.6	1x / year
Hexachlorobutadiene	0.5	10	1x / year
Hexachloroethane	3	60	1x / year
Nitrobenzene	2	40	1x / year
Pentachlorophenol	100	2000	1x / year
Pyridine	5	100	1x / year
2,4,5-Trichlorophenol	400	8000	1x / year
2,4,6-Trichlorophenol	2	40	1x / year
Herbicides / Pesticides			
2,4-D	10	200	1x / year
2,4,5-TP (Silvex)	1	20	1x / year
Chlordane	0.03	0.6	1x / year
Endrin	0.02	0.4	1x / year
Heptachlor	0.008	0.16	1x / year
Heptachlor epoxide	0.008	0.16	1x / year
Lindane	0.44	8.8	1x / year
Methoxychlor	10	200	1x / year
Toxaphene	0.5	10	1x / year

Footnotes

1 If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol (D026) concentration is used. The regulatory level of total cresol is 200 mg/L.

K. Biosolids Monitoring Requirements for Disposal in a Municipal Landfill

Biosolids placed in a municipal landfill shall be tested by the Paint Filter Test (method 9095) at the frequency in Part III.J.1 above or more often as necessary to demonstrate that there are no free liquids. The Permittees shall keep records documenting that biosolids disposed in a municipal landfill did not contain free liquids.

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L. On-site Management Plan

The Permittees shall submit a Management Plan (Plan) within 180 days of permit issuance or maintain a previously submitted Plan for the on-site management operations.

1. This Plan shall detail how sludge/biosolids are managed from the time that they are generated at the facility until they are shipped off-site. The Plan shall give specific protocols to be followed to ensure that the material generated at this facility will consistently meet all applicable requirements in 18 A.A.C. 9, Article 10 and 40 CFR Part 503 Subpart C and the provisions of this permit. The Plan must address issues of potential concern such as storage areas; run-on and run-off control; odor and dust control; and include a professional diagram of facilities/areas used in the operation and the area surrounding the operation. The Plan shall specify how and when representative samples of biosolids will be taken and contain a contingency plan for managing biosolids that exceed the requirements for the expected end use/disposal.

2. The Permittees must submit this Plan to the Water Quality Division, Surface Water Permits Unit for approval within 90 days of permit issuance. Once approved by ADEQ, the Permittees shall follow this plan for the remainder of the permit term, unless revisions are approved in writing by ADEQ prior to their implementation.

M. Record Keeping

1. The Permittees shall collect and retain all biosolids information required by this permit and A.A.C. R18-9-1013(A)(1) through (A)(6) for at least five years.

2. The Permittees shall keep analytical test results and all documentation that supports the biosolids classification on-site and available for review.

3. All biosolid records are subject to periodic inspection, and copying by ADEQ.

N. Notification Requirements

The Permittees, either directly or through contractual arrangements with their biosolids management contractors, shall comply with the following:

1. Notification of Noncompliance

   a. The Permittees shall notify ADEQ of any noncompliance with the biosolids provisions of this permit or with 18 A.A.C. 9, Article 10, which may endanger health or the environment. The Permittees shall provide the information orally within 24 hours from the time the Permittees become aware of the circumstances (See Part II.C of this permit.)

   For other instances of noncompliance with the biosolids provisions, the Permittees shall notify the Water Quality Division, Surface Water Permits Unit in writing within five working days of becoming aware of the circumstances (See Part II.C. of this permit).

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b. Permittees shall require their biosolids management contractors to notify ADEQ of any noncompliance within the time-frames specified in Sections P.1.a and b.

2. Notification of Shipment to another State

   If biosolids are shipped to another State or to Indian Lands, the Permittees shall send a notice of the shipment to the NPDES permitting authorities in the receiving State or Indian Land (the EPA Regional Office for that area and the State/Indian authorities) with a copy to the Water Quality Division, Surface Water Permits Unit. The notice shall be sent at least 60 days before the biosolids are planned to be shipped.

O. Annual Report for all Permittees

The Permittees shall submit an annual biosolids report to ADEQ by February 19 of each year for the period covering the previous calendar year. The report shall be filled out on forms prescribed by ADEQ and shall include:

1. The amount of biosolids received/generated the previous calendar year and the amount stored at the beginning and end of the previous calendar year, in dry tons or dry metric tons (prefer metric tons), and the amount distributed.

2. The results of all biosolids analytical monitoring conducted during the previous calendar year and copies of the laboratory analytical reports. Metals (other than TCLP metals) shall be reported on a 100% dry weight basis. Note: make certain microbiological testing submitted meets required holding times.

3. Names, mailing addresses, and street addresses of all persons who received biosolids generated and/or prepared at this facility for storage, further treatment, disposal in a municipal waste landfill, or for other use/disposal methods not covered under 40 CFR 258 or 503, and the amount delivered to each.

P. Reporting Location

a. Once available, the Permittees shall submit the annual report using the myDEQ electronic portal provided by ADEQ. Until such time, the report shall be submitted to:

AZ. Department of Environmental Quality
Water Quality Division, Surface Water Permits Unit
1110 West Washington Street
Phoenix, AZ 85007
biosolids@azdeq.gov

PART IV – WHOLE EFFLUENT TOXICITY TESTING REQUIREMENTS

A. General Conditions

1. The Permittees shall conduct chronic toxicity tests on a 24-hour composite samples of the final effluent at the frequencies specified in Part 1.

2. Final effluent samples must be taken following all treatment processes, including chlorination and dechlorination, and prior to mixing with the receiving water. The required WET tests must be performed

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on unmodified samples of final effluent. **WET tests conducted on samples that are dechlorinated after collection are not acceptable for compliance with this permit.**

3. Chemical testing for all the parameters listed in Parts I.A and B of this permit whose required sample type is a composite shall be performed on a split of at least one of the three composite samples taken for one chronic WET test. For those parameters listed in Parts I.A and B of this permit whose required sample type is discrete, the testing shall be performed on a discrete sample collected concurrently with one sample, discrete or composite, collected for an acute or chronic WET test.

4. Definitions related to toxicity are found in Appendix A.

B. Chronic Toxicity

1. The permittee shall conduct short-term chronic toxicity tests on three species: the waterflea, *Ceriodaphnia dubia* (survival and reproduction test); the fathead minnow, *Pimephales promelas* (larval survival and growth test); and the green alga, *Pseudokirchneriella subcapitata* (formerly known as *Selenastrum capricornutum* or *Raphidocelis subcapitata)* (growth test).

2. The Permittees must follow the USEPA 4th edition manual, "*Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms* (EPA/821-R-02-013) for all chronic compliance toxicity testing.

3. The chronic toxicity action levels are any one test result greater than 1.6 Tus or any calculated monthly median value greater than 1.0 TUc. If chronic toxicity is detected above these values, follow-up testing is required per Part IV, Section E. A chronic toxicity unit (TUc) shall be calculated as TUc = 100/NOEC.

4. The chronic WET test shall be conducted using a series of five dilutions and a control. The following dilution series must be used: 12.5, 25, 50, 75, and 100% effluent.

C. Quality Assurance

1. Effluent samples must be maintained between 0 and 6°C from collection until utilized in the toxicity testing procedure. When a composite sample is required, each aliquot making up the composite must be chilled after collection and throughout the compositing period. The single allowable exception is when a grab sample is delivered to the performing laboratory for test initiation no later than 4 hours following the time of collection.

2. Control and dilution water should be receiving water or lab water as appropriate, as described in the 40 CFR Part 136.3 approved method. If the dilution water used is different from the culture water, a second control, using culture water shall also be used.

3. Reference toxicity tests, (a check of the laboratory and test organisms' performance), shall be conducted at least 1 time in a calendar month for each toxicity test method conducted in the laboratory during that month. Additionally, any time the laboratory changes its source of test organisms, a reference toxicity test must be conducted before or in conjunction with the first WET test performed using the organisms from the newer source. Reference toxicant testing must be conducted using the same test conditions as the effluent toxicity tests (ie., same test duration, etc.).

4. If either the reference toxicant test or the effluent test does not meet all test acceptability criteria as specified in the 40 CFR Part 136.3 approved WET methods, then the Permittees must re-sample and re-test within 14 days of receipt of the test results. The re-sampling and re-testing requirements include laboratory induced error in performing the test method.

5. The chronic reference toxicant and effluent tests must meet the upper and lower bounds on test sensitivity as determined by calculating the percent minimum significant difference (PMSD) for each test result. The test sensitivity bound is specified for each test method (see Section 10, Table 6 in EPA/821-R-02-013). There are five possible outcomes based on the PMSD result.
   a. *Unqualified Pass*- The test's PMSD is within bounds and there is no significant difference between the means for the control and the effluent. The regulatory authority would conclude that there is no toxicity.

   b. *Unqualified Fail*- The test's PMSD is larger than the lower bound (but not greater than the upper bound) in Table 6 and there is a significant difference between the means for the control and the effluent. The regulatory authority would conclude that there is toxicity.

   c. *Lacks Test Sensitivity*- The test's PMSD exceeds the upper bound in Table 6 and there is no significant difference between the means for the control and the effluent. The test is considered invalid. An effluent sample must be collected and another toxicity test must be conducted within 14 days of receipt of the test results.

   d. *Lacks Test Sensitivity*- The test's PMSD exceeds the upper bound in Table 6 and there is a significant difference between the means for the control and the effluent. The test is considered valid. The regulatory authority will conclude that there is toxicity.

   e. *Very Small but Significant Difference*- The relative difference between the means for the control and effluent is smaller than the lower bound in Table 6 and this difference is statistically significant. The test is acceptable and the NOEC should be determined.

D. Toxicity Identification Evaluation (TIE)/Toxicity Reduction Evaluation (TRE) Process

1. If toxicity is detected above a WET Limit specified in this permit and the source of toxicity is <u>known</u> (for instance, a temporary plant upset), the Permittees shall conduct one follow-up test within two weeks of receipt of the sample results that exceeded the limit. The Permittees shall use the same test and species as the failed toxicity test. For intermittent discharges, the follow-up test shall be conducted whether discharging or not. If toxicity is detected in the follow-up, the Permittees shall immediately begin developing a TRE plan and submit the plan to ADEQ for review and approval within 30 days after receipt of the toxic result. Requirements for the development of a TRE are listed in paragraph 3 below. The Permittees must implement the TRE plan as approved and directed by ADEQ.

2. If toxicity is detected above a WET Limit specified in this permit and the source of toxicity is <u>unknown</u>, the Permittees shall begin additional toxicity monitoring within two weeks of receipt of the sample results that exceeded the action level. The Permittees shall conduct one WET test approximately every other week until either a test exceeds a limit or four tests have been completed.

The follow-up tests must use the same test and species as the failed toxicity test. For intermittent discharges, the first follow-up test shall be conducted whether discharging or not; the subsequent three follow-up tests shall be conducted during the next three discharge events.

a. If none of the four tests exceed a WET action level or limit, then the Permittees may return to the routine WET testing frequency specified in this permit.

b. If a WET action level or limit is exceeded in any of the additional tests, the Permittees shall immediately begin developing a TRE plan and submit the plan to ADEQ for review and approval within 30 days after receipt of the toxic result. Requirements for the development of a TRE are listed in subsection 3, below. The Permittees must implement the TRE plan as approved and directed by ADEQ.

3. The Permittees shall use the EPA guidance manual *Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants*, 1999 (EPA/833/B-99/002) in preparing a TRE plan. The TRE plan shall include, at a minimum, the following:

   a. Further actions to investigate and identify the causes of toxicity, if unknown. The Permittees may initiate a TIE as part of the TRE process using the following EPA manuals as guidance: *Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I,* 1992 (EPA/600/6-91/005F); *Methods for Aquatic Toxicity Identification Evaluations: Phase I, Toxicity Characterization Procedures*, 2nd Edition, 1991 (EPA/600/6-91/003); *Methods for Aquatic Toxicity Identification Evaluations: Phase II, Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity,* 1993 (EPA/600/R-92/080); and *Methods for Aquatic Toxicity Identification Evaluations: Phase III, Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity,* 1993 (EPA/600/R-92/081).
   b.
   c. Action the Permittees will take to mitigate the impact of the discharge and to prevent the recurrence of toxicity; and

   d. A schedule for implementing these actions.

E. WET Reporting

1. The Permittees shall report chronic toxicity results on DMRs in Chronic Toxicity Units (TUc). The TUc for DMR reporting shall be calculated as TUc= 100/NOEC.
2. In addition to reporting WET results on DMRs, the Permittees shall submit a copy of the full lab report(s) for all WET testing conducted during the monitoring period covered by the DMR. The lab report should report TUc as 100/NOEC **and** as 100/IC_{25}. If the lab report does not contain any of the following items, then these must also be supplied in a separate attachment to the report: 1) sample collection and test initiation dates, 2) the results of the effluent analyses for all parameters required to be tested concurrently with WET testing as defined in Part I.A and B, Tables 1 and 2, and Part IV.A.3 of this permit, and 3) copies of completed "AZPDES Discharge Flow Records" for the months in the WET monitoring period.
3. WET lab reports and any required additional attachments shall be submitted to ADEQ by the 28th day of the month following the end of the WET monitoring period, or upon request.

PART V – SPECIAL CONDITIONS

A. Operation

The Permittees shall ensure that the facilities or collection systems are operated by or under the supervision of an operator currently certified by ADEQ at the level appropriate for the Nogales International Wastewater Treatment Plant and collection systems.

B. Pretreatment Conditions for the USIBWC

The USIBWC shall take the following measures to achieve compliance with pretreatment program requirements within the areas of Nogales, Sonora and surrounding communities that contribute to the wastewater to the Facility pursuant to an agreement with the USIBWC. The USIBWC's implementation of the actions below constitute compliance with the pretreatment conditions in this permit.

1. The USIBWC shall work with the Mexican Section of the IBWC (CILA) to take appropriate actions to prevent the discharge of untreated industrial wastewater into the international trunkline in order to preserve the efficiency of the Facility. In particular, the USIBWC shall work with CILA and through CILA work with the local authorities to prevent the introduction of pollutants into the international trunkline which will interfere with the operation of the Facility, including its use or disposal of sludge, pass through the treatment works, or otherwise be incompatible with such works, or cause to contribute to an applicable water quality standard in the receiving water. The USIBWC shall work with CILA to:

    a. Provide notification of all exceedances of the mass influent limitations outlined in Part I.E of the permit to national and local authorities in Mexico and Arizona with respect to influent quality at the IOI, Manhole No. 1, and influent quality at the Facility in an effort to identify the source of pollutants from industrial dischargers into the collection system. ADEQ will be copied on this correspondence with Mexico pursuant to Part V.B.6.

    b. Develop and maintain a list of Nogales, Sonora industrial users and the chemicals used in each of their processes and include the list in the annual report.

    c. Within 90 days of permit issuance, request or develop and maintain an area map including the sanitary sewer system infrastructure in Mexico with contributing industrial user locations in relation to the IOI and Manhole No. 1. The map shall also include assets such as manholes, interconnects and lift stations.

    d. Hold, at least once yearly, meetings with municipal entities and the businesses in Sonora regarding pretreatment requirements and the impacts of influent exceedances. Training shall be provided either during this session or at other times during the year. The USIBWC and CILA shall invite North American Development Bank (NADBANK)and Comisión Nacional del Agua (CONAGUA) to discuss quarterly data regarding problematic constituents according to the MAHA requirements. The invitation list may include the entire industrial community or can be targeted at those industries associated with the problematic constituents identified for that time period.

    e. Identify training through local utility companies or other pretreatment experts for the industrial community. Provide pretreatment and related training to local utility companies that include Mexico in their pretreatment or other related training. Training will be targeted for the following:

        i. To improve and conduct monitoring and source evaluation in Sonora, Mexico;

ii. To improve laboratory and analytical capabilities (including laboratory certification for the Nogales, Sonora water quality); and
iii. To provide educational programs.

2. At least annually, the USIBWC shall formally request from Oranismo Operador Municipal de Aqua Potable, Alcantarillado y Saneamiento de Nogales, Sonora (OOMAPAS-NS), through CILA, the information listed below. This information shall be included in the USIBWC's Pretreatment Annual Report as specified in Section 7 below. If CILA refuses or fails to provide this information within one month of the request, the USIBWC shall submit a written notification, including a copy of the formal request to ADEQ.

   a. A brief description of any programs OOMAPAS-NS implements to reduce pollutants from non-domestic users that are not classified as significant industrial users (SIUs). A non-domestic user would be any commercial or industrial user.

   b. A brief description of any significant changes in operating the OOMAPAS-NS pretreatment program which differ from the previous year including, but not limited to, changes concerning the program's administrative structure, local limits, monitoring program or monitoring frequencies, legal authority, enforcement policies, funding levels, or staffing levels.

   c. A summary of the OOMAPAS-NS annual pretreatment budget, including the cost of pretreatment program functions and equipment purchases.

   d. A summary of all activities undertaken by OOMAPAS-NS to involve and inform the public of the pretreatment program and pretreatment requirements, including a copy of any notices provided.

3. The USIBWC shall formally request from the OOMAPAS-NS, through CILA, a copy of the OOMAPAS-NS annual report prepared for the EPA as per Border Environment Infrastructure Fund (BEIF) Grant requirements. If CILA refuses or fails to provide this report within one month of the date of the formal request, the USIBWC shall submit a written notification, including a copy of the formal request, to ADEQ.

4. The USIBWC shall submit annually a report to ADEQ and EPA Region 9, describing its compliance with the pretreatment actions in this permit within the areas of Nogales, Sonora and surrounding communities over the previous year. In the event that the USIBWC is not in compliance with any of the conditions of requirements of this permit, the USIBWC shall also include the reasons for non-compliance and state how and when the USIBWC shall comply with such conditions and requirements. This annual report shall cover operations from January 1 through December 31 and is due on February 28th of each year. The report shall contain, but not be limited to, the following information:

   a. A written description listing all upset, interference, or pass through events, as defined by 40 CFR Part 403, if any, at the Facility during the preceding calendar year which the USIBWC knows or suspects were caused by the influent to the Facility. For each incident, at a minimum include the following information:
      i. A description of the incident;
      ii. A list and summary of any and all communications with CILA to identify the cause; and
      ii. Steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

   b. A description of all activities undertaken during the previous calendar year working with CILA and any other entities in Mexico and the U.S. to address the events described in Section 5.a above and

any pollutants identified at Manhole No. 1 which exceed the limits specified in Part I.E.1 Table 5. At a minimum include the following information:

i. A copy of the area map, including any updates, as described in Part V.B.1.c.;
ii. A summary of the annual meetings and outcomes as described in Part V.B.1.d.;
ii. The dates and descriptions of any trainings provided to the municipal entities and businesses in Sonora, Mexico; and
ii. A description of any funding and/or assistance provided as described under Section B.3 of this Part.

c. The information provided OOMAPAS-Nogales as per Section B.3 of this Part. If the USIBWC is unable to obtain this information, this should be noted in the report.

d. An English translation of the OOMAPAS-Nogales annual report as described in Section B.4 of this Part.

e. Provide a list of industrial users as required by Part V.B.2.b.

f. Exceedance analysis; interim targets towards meeting the influent limitations, including, specified reductions in the frequency and magnitude of exceedances. Interim targets shall be set every three years and submitted as part of the annual report.

g. Any Specific new and continued actions developed with CILA that will be taken to outreach, engage, and incentivize industrial users to preempt discharges that would contribute to exceedances of the limitations in Table 5.

5. The Permittee shall submit the annual report using the myDEQ electronic portal provided by ADEQ once available. Until such time, the USIBWC shall submit the annual report to the following EPA Region 9 and ADEQ Pretreatment Coordinator addresses:

Pretreatment Coordinator EPA Region 9 R9Pretreatment@epa.gov	Pretreatment Coordinator Arizona Department of Environmental Quality Mail Code: 5415B-1 1110 West Washington Street Phoenix, AZ 85007 pretreatment@azdeq.gov

6. The USIBWC shall request and work with CILA to develop a mechanism to respond to exceedance events. For example, develop a binational team or use existing bi-national entities to address exceedances that can work with or within Mexico on locating the source of an exceedance.

C. Binational Technical Committee and Information Sharing

1. The USIBWC shall conduct binational technical committee meetings periodically but no less than twice per year. The USIBWC shall invite stakeholders from the United States and Mexico to discuss binational interests which shall include limitation of industrial pollutants in the wastewater stream. The USIBWC shall prepare an agenda with input from invitees and shall prepare a meeting summary after the meeting and distribute to all invitees.

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2. Within 60 days of the end of each quarter, the USIBWC shall provide a written report to CILA, the EPA Region 9 and ADEQ Pretreatment Coordinator individually comparing the Mexican and U.S. influent quality to the influent limits in terms that are suitable for an executive audience, including a discussion of the monitoring results for that quarter and clearly representing data in visual means such as graphs. The report shall fully and appropriately characterize the frequency and magnitude of any exceedances of the influent limits. The USIBWC shall also provide a copy of the report to ADEQ Pretreatment Coordinator, to CILA, and request that CILA provide a Spanish translation of the report to the Pretreatment Administrator of Nogales, Sonora. The submitted reports shall be signed by the Commissioner of the USIBWC or designee.

EPA Region 9 R9Pretreatment@epa.gov	Pretreatment Coordinator Arizona Department of Environmental Quality Mail Code: 5415B-1 1110 West Washington Street Phoenix, AZ 85013 pretreatment@azdeq.gov

3. In the event of an exceedance of an influent limit, the Commissioner of the USIBWC or the designee shall notify the Commissioner of CILA or designee as expeditiously as possible of the exceedance, but no later than 5 days from the date that the Permittee became aware of the exceedance. ADEQ will be copied on this informal correspondence (such as copied on an email).

4. Within 60 days following the end of each quarter, the USIBWC shall prepare and submit a technical presentation in English which clearly summarizes the results of the pretreatment monitoring data for Manhole 1 and the plant's influent for that quarter to the ADEQ Pretreatment Coordinator. The USIBWC will provide this information at a BTC meeting and provide translation services at that meeting. The USBIWC will request that CILA translate this presentation into Spanish before it is disseminated to stakeholders in Mexico.

5. The USIBWC shall meet with CILA each quarter to share the quarterly presentation and answer any questions about its content. The USIBWC shall formally request that CILA share the presentation at venues hosted by the regulated community at least once during that quarter and shall copy the ADEQ Pretreatment Coordinator on the request. If CILA refuses or fails to confirm within one month, the USIBWC shall communicate the same to ADEQ Pretreatment Coordinator in a timely manner.

6. The USIBWC shall formally request that CILA share the presentation with the Nogales, Sonora Water and Wastewater Utility (OOMAPAS-NS) Director during that quarter with copy to the Municipal Pretreatment Administrator and ADEQ Pretreatment Coordinator. If CILA refuses or does not confirm within one month, IBWC will communicate the same to ADEQ Pretreatment Coordinator in a timely manner.

7. Within 60 days following the end of each quarter, the USIBWC shall prepare a one-page information sheet in English which highlights any challenges associated with influent sourced to Sonora. A copy of the information sheet shall be submitted to the ADEQ Pretreatment Coordinator no later than two weeks after the quarterly pretreatment monitoring data is submitted ADEQ. The information sheet shall be forwarded to CILA with a request that it be provided to OOMAPAS-NS in Spanish for inclusion in

billing for industrial customers. If CILA refuses or does not confirm within one month, IBWC will communicate the same to ADEQ Pretreatment Coordinator in a timely manner.

8. If there is an exceedance of allocated loadings for Mexico for a given constituent during a quarter, the USIBWC shall formally request that CILA host a pretreatment workshop focused on the associated contaminant(s) within 60 days following the end of that quarter and shall copy ADEQ Pretreatment Coordinator on the request. If needed, a minimum of one workshop will be hosted per year. If CILA refuses to cooperate or does not confirm, IBWC will communicate the same to ADEQ Pretreatment Coordinator in a timely manner.

9. The USIBWC may, for reasons of international protocol, submit the presentation and other documents described in this section to CILA in English. If the documents are submitted in English, the USIBWC shall formally request that CILA translate the documents into Spanish prior to distribution to the stakeholders in Mexico. If CILA does not translate the documents as requested, the USIBWC shall do the translation.

10. Each quarter, the USIBWC shall make the technical presentation described in Section 4, above, publicly available on the International Boundary Water Commission website in a clearly accessible manner no later than 30 days after it is presented at the binational technical committee meeting.

D. The USIBWC Response to Influent Limit Exceedances

1. When the USIBWC is made aware of influent exceedances, to demonstrate compliance, the USIBWC will work with CILA to determine the source of the exceedance.

    a. If the source is identified, the USIBWC will work with CILA to communicate with the identified industrial user to notify it of the impact of the exceedance on the plant and request it to address the exceedance.
    b. If a specific source is not identified, ask CILA to use the existing list of industrial users and reach out to those industrial users that use in their process the pollutant that had an exceedance.
    c. The USIBWC shall submit copies of any informal correspondence with CILA to the ADEQ and EPA Pretreatment Coordinators per Part V.B.1.a. of the permit.

E. Pretreatment Conditions for the City of Nogales, Arizona (the City)

1. Once each year, the City shall conduct sampling and analysis for the POC identified in the 2009 MAHA Report (and as specified in Part 1.E.1 Table 5 above) at the Mariposa, Western, and Rio Rico force main receiving manholes Sampling sites. The monitoring shall be conducted in accordance with Part V.B.1.d. of this Permit.

2. If the City identifies pollutants measured at the Mariposa, Western, and Rio Rico force main receiving manholes exceeding the influent limits in Part I.E.1. Table 5 of this Permit, or identifies any SIUs within the City's Control Authority, the City shall develop and submit for ADEQ approval a Pretreatment Program pursuant to 40 CFR Part 403, including a request for a major-modification of this Permit within 180 days of receipt of written notification from ADEQ. The City shall have an affirmative defense in any action brought against it alleging a violation of this Permit caused by a pollutant listed in Part 1.E.1

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Table 5 of this Permit in the combined influent to the Facility where the City can demonstrate that such pollutant in its influent does not exceed the influent limits in Part 1.E.1. Table 5 of this Permit and if the pollutant is demonstrated to be present at concentrations above the influent limits in the influent from outside the City's Control Authority.

3. The City shall submit annually a report to ADEQ and EPA, Region 9 including the following information for the period January 1 through December 31 and is due on February 28th of each year. The report shall contain, but not be limited to, the following information:

    a. A summary of analytical results of Part V.C.1. of this Permit; and

    b. An updated list of the City's significant industrial users (SIUs) including their names and addresses, and a list of deletions, additions and SIU name changes keyed to the previously submitted list. The City shall provide a brief explanation for each change. The list shall identify the SIUs subject to federal categorical standards by specifying which set(s) of standards are applicable to each SIU. The list shall also indicate which SIUs are subject to local limitations.

4. On February 28th of each year, the City shall submit the annual report using the myDEQ electronic portal provided by ADEQ once available. Until such time, the City shall submit the annual report to the following EPA Region 9 and ADEQ Pretreatment Coordinator addresses:

Pretreatment Coordinator EPA Region 9 R9Pretreatment@epa.gov	Pretreatment Coordinator Arizona Department of Environmental Quality Mail Code: 5415B-1 1110 West Washington Street Phoenix, AZ 85007 pretreatment@azdeq.gov

F. Septage Acceptance Requirements

1. The USIBWC shall work with CILA restrict discharges from septage haulers to the collection system within Nogales, Sonora.

2. The City shall require that all septage haulers discharging to the collection system within its Control Authority to report, the source(s) of septage being delivered to the Nogales International Wastewater Treatment Plant. If practicable, all septage shall be received at a single, controlled location. Septage shall not be accepted from a non-domestic user.

3. ADEQ shall require the City to provide a monthly report to the USIBWC detailing septage deliveries.

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G. Ambient Monitoring Requirements

1. The Permittees shall conduct ambient surface water quality monitoring within the Santa Cruz River at three locations for the parameters and frequencies specified in Table 11 below. If flow is not present at one or all of the sampling locations during the monitoring period, documentation shall note the location(s) where no flow was observed but provide results for the remaining sampling locations with observed flow. The sampling locations are shown in Appendix C and are as follows:

    a. The Santa Cruz River just upstream of the Facility outfall.

    b. Rio Rico Highway Bridge; located approximately 3 km downstream from Outfall 0001.

    c. Santa Gertudis: located approximately 12 km downstream from Outfall 001.

2. Ambient monitoring shall be conducted concurrent with influent monitoring as required under Part I.E.

3. The samples collected from each of the locations shall be analyzed for the parameters in Table 11 as follows:

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Table 11 Ambient Monitoring Requirements

Parameter	Reporting Units	Monitoring Requirements
Flow Rate	CFU	1x /Quarter
Dissolved Oxygen (1)	mg/L	1x/Quarter
pH (1)	S.U.	1x/Quarter
Temperature	° Celsius	1x/Quarter
Electrical Conductivity (EC) (1)		1x/Quarter
Chlorine, Total Residual (TRC) (1)	µg/L	1x /Quarter
Ammonia (as N)	mg/L	1x/Quarter
Nitrate / Nitrite (as N)	mg/L	1x/Quarter
Nitrogen, Total Kjeldahl (TKN)	mg/L	1x /Quarter
Carbonaceous Oxygen Demand (COD)	mg/L	1x /Quarter
Phosphorus	mg/L	1x /Quarter
Orthophosphorus	mg/L	1x /Quarter
Chlorophyll		1x /Quarter
Cadmium (total and dissolved)	µg/L	1x /Quarter
Chromium (total and dissolved)	µg/L	1x /Quarter
Copper (total and dissolved)	µg/L	1x /Quarter
Lead (total and dissolved)	µg/L	1x /Quarter
Nickel (total and dissolved)	µg/L	1x /Quarter
Zinc (total and dissolved)	µg/L	1x /Quarter
Hardness	mg/L	1x /Quarter
E. coli	cfu / 100 ml (3)	1x /Quarter
Chronic Toxicity *Pimephales promelas* (Fathead minnow)	TU	1x /6 months (2)
Chronic Toxicity *Pseudokirchneriella subcapitata* (Green algae)	TU	1x /6 months (2)
Chronic Toxicity *Ceriodaphnia dubia* (Water flea)	TU	1x /6 months (2)

Footnotes

1 These field parameters must be measured at the time of sampling and do not require use of a certified laboratory. See Part II.A.6 for methods of analyses for chlorine. 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 These samples shall be collected during the summer and winter quarters.

4. All ambient sample collection and analysis shall meet the applicable requirements in Part II.A. of this Permit. The Permittees shall use an approved analytical method with a LOQ lower than the applicable water quality standards.

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5. Ambient monitoring data shall be submitted electronically submitted by the 28th day of the month following the end of a monitoring period using the surface water data submission template, which is provided by ADEQ. Permittees are responsible for filling out required fields. In addition to the data submission template the Permittees shall use the provided ADEQ site numbers.

   The template file shall be submitted to: swdata@azdeq.gov

H. Reopener

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, such as the proposed nickel impairment, to the receiving waters; or to re-evaluate reasonable potential (RP), if Assessment Levels in this permit are exceeded.

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Appendix A - Part A: Acronyms

A.A.C.	Arizona Administrative Code
ADEQ	Arizona Department of Environmental Quality
ADHS	Arizona Department of Health Services
EQ	Exceptional Quality (biosoilds)
AZPDES	Arizona Pollutant Discharge Elimination System
A.R.S.	Arizona Revised Statutes
CFR	Code of Federal Regulations
CFU	Colony Forming Units
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)
MPN	Most Probable Number
NPDES	National Pollutant Discharge Elimination System
PFU	Plaque-Forming Unit
QA	Quality Assurance
SSU	Sewage Sludge Unit
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

Active Sewage Sludge Unit	A sewage sludge unit that has not closed.
Acute Toxicity Test	A test used to determine the concentration of effluent or ambient waters that produces an adverse effect (lethality) on a group of test organisms during a short-term exposure 9e.g., 24, 48, or 96 hours). Acute toxicity is measured using statistical procedures (e.g., pint estimate techniques or hypothesis testing) and is reported as PASS/FAIL or in TUas, where TUa = $100LC_{50}$.
Acute-to Chronic Ratio (ACR)	Is the ratio of the acute toxicity of an effluent or a toxicant to its chronic toxicity. It is used as a factor for estimating chronic toxicity on the basis of acute toxicity data, or for estimating acute toxicity on the basis of chronic toxicity data.
Agronomic Rate	The whole biosolids application rate on a dry-weight basis that meets the following conditions: a.) The amount of nitrogen needed by existing vegetation or a planned or actual crop has been provided, and b.) The amount of nitrogen that passes below the root zone of the crop or vegetation is minimized.
Ammonia Impact Ratio (AIR)	The ratio of the concentration of ammonia in the effluent and the calculated ammonia standard as determined by the use of effluent/receiving water pH and temperature.
Annual Pollutant Loading Rate	The maximum amount of a pollutant that can be applied to an acre or hectare of land during a 365-day period.

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Applicator	A person who arranges for and controls the site-specific land application of biosolids in Arizona.
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).
Bulk Biosolids	Biosolids that are transported and land-applied in a manner other than in a bag or other container holding biosolids of 1.102 short tons or 1 metric ton or less.
Chronic Toxicity Test	A test in which sublethal effects (e.g., reduced growth or reproduction) are measured in addition to lethality. Chronic toxicity is measured as TUc = 100/NOEC or TUc = 100/Ecp or 100/ICp. The ICp and ECp value should be the approximate equivalent of the NOEC calculated by hypothesis testing for each test method.
Composite Sample	A sample that is formed by combining a series of individual, discrete samples of specific volumes at specified intervals. Composite samples characterize the quality of a discharge over a given period of time. Although, composite samples can be time-weighted or flow-weighted, this permit requires the collection of flow-proportional composite samples. This means that samples are collected and combined using aliquots in proportion to flow rather than time. Also see Flow-Proportional Composite.
Cumulative Pollutant Loading Rate	The maximum amount of a pollutant applied to land application site.
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.
Daily Maximum Mass Limit	The maximum allowable total mass of a pollutant discharged in a calendar day.
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.
Dry-Weight Basis	The weight of biosolids calculated after the material has been dried at 105 ˚C until reaching a constant mass.
Effect Concentration Point (ECP)	A point estimate of the toxicant (or effluent) concentration that would cause an observable adverse effect (e.g., survival or fertilization) in a given percent of the test organisms, calculated from a continuous model (e.g., USEPA Probit Model).
Exceptional Quality Biosolids	Biosolids certified under R18-9-1013(A)(6) as meeting the pollutant concentrations in R18-9-1005 Table 2, Class A pathogen reduction in R18-9-1006, and one of the vector attraction reduction requirements in subsections R-18-9-1010(A)(1) through R18-9-1010(A)(8).
Flow Proportional Composite Sample	A sample that combines discrete samples collected over time, based on the flow of the discharge being sampled. There are two methods used to collect this type of sample. One collects a constant sample volume at time intervals that vary based on stream flow. The other collects discrete samples that are proportioned into aliquots of varying volumes based on stream flow, at constant time intervals (i.e. flow-weighted composite sample).
Hardness	The sum of the calcium and magnesium concentrations, expressed as calcium carbonate ($CACO_3$) in milligrams per liter.
Hypothesis Testing	A statistical technique (e.g., Dunnetts test) that determines what concentration is statistically different from the control. Endpoints determined from hypothesis testing are NOEC and LOEC. The two hypotheses commonly tested in WET are:

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	Null hypothesis (H_0): The effluent is not toxic. Alternative hypothesis (H_a): The effluent is toxic.
Inhibition Concentration (IC)	A point estimate of the toxicant concentration that would cause a given percent reduction in a non-lethal biological measurement (e.g., reproduction or growth) calculated from a continuous model (e.g., USEPA Interpolation Method). IC25 is a point estimate of the toxicant concentration that would cause a 25% reduction in a non-lethal biological measurement.
Land Application or Land Apply	Spraying or spreading biosolids on the surface of the land, injecting biosolids below the land's surface, or incorporating biosolids into the soil to amend, condition, or fertilize the soil.
Land Treatment Facility	An operation designed to treat and improve the quality of waste, wastewater, or both, by placement wholly or in part on the land surface to perform part or all of the treatment. A land treatment facility includes a facility that performs biosolids drying, processing, or composting, but not land application performed in compliance with 18 A.A.C. 9, Article 10.
LC50	The toxicant (or effluent) concentration that would cause death in 50 percent of the test organisms.
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 where an effluent discharge undergoes initial dilution and may be extended to cover the secondary mixing in the ambient waterbody. A mixing zone is an allocated impact zone where water quality criteria can be exceeded as long as acutely toxic conditions are prevented.
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 *E. coli* 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.
No Observed Effect Concentration (NOEC)	The highest tested concentration of effluent or toxicant, that causes no observable adverse effect on the test organisms (i.e., the highest concentration of toxicant at which the values for the observed responses are <u>not</u> statistically significant different from the controls).
Pathogen	A disease-causing organism.

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Point Estimate Techniques	As Probit, Interpolation Method, Spearman-Karber are used to determine the effluent concentration at which adverse effects (e.g., fertilization, growth or survival) occurred. For example, concentration at which a 25 percent reduction in fertilization occurred.
Reference Toxicant Test	A toxicity test conducted with the addition of a known toxicant to indicate the sensitivity of the organisms being used and demonstrate a laboratory's ability to obtain consistent results with the test method. Reference toxicant data are part of the routine QA/QC program to evaluate the performance of laboratory personnel and test organisms.
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.
Significant Difference	Defined as statistically significant difference (e.g., 95% confidence level) in the means of two distributions of sampling results.
Single Concentration Acute Test	A statistical analysis comparing only two sets of replicate observations. In the case of WET, comparing only two test concentrations (e.g., a control and 100% effluent). The purpose of this test is to determine if the 100% effluent concentration differs from the control (i.e., the test passes or fails).
Store Biosolids or Storage of Biosolids	The temporary holding or placement of biosolids on land before land application.
Surface Disposal Site	An area of land that contains one or more active sewage sludge units.
Submit	Used in this permit, means post-marked, documented by other mailing receipt, or hand-delivered to ADEQ.
Test Acceptability Criteria (TAC)	Specific criteria for determining whether toxicity tests results are acceptable. The effluent and reference toxicant must meet specific criteria as defined in the test method.
Ton	A net weight of 2000 pounds and is known as a short ton.
Total Solids	The biosolids material that remains when sewage sludge is dried at 103° C to 105° C.
Toxic Unit (TU)	A measure of toxicity in an effluent as determined by the acute toxicity units or chronic toxicity units measured. Higher the TUs indicate greater toxicity.
Toxicity Identification Evaluation (TIE)	A set of procedures used to identify the specific chemical(s) causing effluent toxicity.
Toxicity Reduction Evaluation (TRE)	A site-specific study conducted in a stepwise process designed to identify the causative agents of effluent toxicity, isolate the sources of toxicity, evaluate the effectiveness of toxicity control options, and then confirm the reduction in effluent toxicity.
Toxicity Test	A procedure to determine the toxicity of a chemical or an effluent using living organisms. A toxicity test measures the degree of effect of a specific chemical or effluent on exposed test organisms.
Vectors	Rodents, flies, mosquitoes, or other organisms capable of transporting pathogens.
Whole Effluent Toxicity	The total toxic effect of an effluent measured directly with a toxicity test.

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Appendix B - AZPDES Discharge Flow Record

Nogales International WWTP AZ0025607			
Discharge to Unnamed Wash tributary to the Santa Cruz Basin At:			
Outfall No:			
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.

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Appendix C - Ammonia Data Log

Nogales International Wastewater Treatment Plant – AZ0025607					
A	B	C	D	E	F
Date of Sample	Ammonia Concentration (Effluent) (mg/L N)	pH (Effluent) (S.U.)	Temperature (Effluent) (° Celsius)	Ammonia Standard as Determined from Ammonia Criteria Tables (attached)	Ammonia Impact Ratio (Column B / Column E)
Please copy and complete for each month of each year for permit term. Attach any additional pages as necessary.					

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Appendix C - Ammonia Special Reporting Requirements

Arizona Administrative Code, Title 18, Chapter 11 Department of Environmental Quality Water Quality Standards contains acute and chronic ammonia standards that are contingent upon temperature and/or pH values. The chronic criteria are more stringent than the acute ammonia criteria, so the effluent ammonia will be compared to the chronic ammonia standards. The table for chronic Aquatic and Wildlife designated uses follow below. The Permittees shall refer to this/these table(s) to determine the ammonia standard that applies each time an ammonia sample is taken. The required minimum discharge sampling frequency for these parameters may be found in Table 1 or 2 of this permit. The Permittees shall record all sampling results for effluent ammonia, effluent pH and temperature at the time of sampling, as well as the applicable ammonia standards, ammonia impact ratios, and sampling dates in the Ammonia Data Log. Additionally, the ammonia impact ratio shall be calculated by dividing the ammonia value by the corresponding ammonia standard. Anytime an ammonia impact ratio is found to be above the limit of 1.0 for the pH and temperature at the time the sample was taken, the Permittees shall highlight this on the ammonia data log. These results shall also be reported on DMRs with any exceedances noted. Annual submittal of the ammonia data log is required (See Part II.B.3)

A&W Designated Uses

Determination of Chronic Total Ammonia Criteria as N in mg / L Based on pH and Temperature at Time of Sampling (1) (2)										
pH	**Temperature, °C**									
	0	**14**	**16**	**18**	**20**	**22**	**24**	**26**	**28**	**30**
6.5	6.7	6.7	6.1	5.3	4.7	4.1	3.6	3.2	2.8	2.5
6.6	6.6	6.6	6.0	5.3	4.6	4.1	3.6	3.1	2.8	2.4
6.7	6.4	6.4	5.9	5.2	4.5	4.0	3.5	3.1	2.7	2.4
6.8	6.3	6.3	5.7	5.0	4.4	3.9	3.4	3.0	2.6	2.3
6.9	6.1	6.1	5.6	4.9	4.3	3.8	3.3	2.9	2.6	2.3
7.0	5.9	5.9	5.4	4.7	4.2	3.7	3.2	2.8	2.5	2.2
7.1	5.7	5.7	5.2	4.5	4.0	3.5	3.1	2.7	2.4	2.1
7.2	5.4	5.4	5.0	4.3	3.8	3.3	2.9	2.6	2.3	2.0
7.3	5.1	5.1	4.6	4.1	3.6	3.1	2.8	2.4	2.1	1.9
7.4	4.7	4.8	4.3	3.8	3.3	3.0	2.6	2.3	2.0	1.7
7.5	4.4	4.4	4.0	3.5	3.1	2.7	2.4	2.1	1.8	1.6
7.6	4.0	4.0	3.6	3.2	2.8	2.5	2.2	1.9	1.7	1.5
7.7	3.6	3.6	3.3	2.9	2.5	2.2	1.9	1.7	1.5	1.3
7.8	3.2	3.2	2.9	2.5	2.2	2.0	1.7	1.5	1.3	1.2
7.9	2.8	2.8	2.5	2.2	2.0	1.7	1.5	1.3	1.2	1.0
8.0	2.4	2.4	2.2	1.9	1.7	1.5	1.3	1.2	1.0	0.90
8.1	2.1	2.1	1.9	1.7	1.5	1.3	1.1	1.0	0.88	0.77
8.2	1.8	1.8	1.6	1.4	1.3	1.1	0.97	0.86	0.75	0.66

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Determination of Chronic Total Ammonia Criteria as N in mg / L Based on pH and Temperature at Time of Sampling (1) (2)										
8.3	1.5	1.5	1.4	1.2	1.1	0.94	0.83	0.73	0.64	0.56
8.4	1.3	1.3	1.2	1.0	0.91	0.80	0.70	0.62	0.54	0.48
8.5	1.1	1.1	0.99	0.87	0.77	0.67	0.59	0.52	0.46	0.40
8.6	0.92	0.92	0.84	0.74	0.65	0.57	0.50	0.44	0.39	0.34
8.7	0.78	0.78	0.71	0.62	0.55	0.48	0.42	0.37	0.33	0.29
8.8	0.66	0.66	0.60	0.53	0.46	0.41	0.36	0.32	0.28	0.24
8.9	0.57	0.57	0.51	0.45	0.40	0.35	0.31	0.27	0.24	0.21
9.0	0.49	0.49	0.44	0.39	0.34	0.30	0.26	0.23	0.20	0.18

Footnotes

1 pH and temperature are field measurements taken at the same time and location as the water samples destined for the laboratory analysis of ammonia.

2 If field measured pH and/or temperature values fall between the Chronic Total Ammonia tabular values, round field measured values according to standard scientific rounding procedures to nearest tabular value to determine the ammonia standard.

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Appendix D - Standard AZPDES Permit Conditions & Notifications
(Updated as of February 2, 2004)

1. Duty to Reapply – [R18-9-B904(C)]
   Unless the Permittees permanently ceases the discharging activity covered by this permit, the Permittees 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 Permittees 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. 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. The United States retains and does not waive its right to assert any defense, rights, or waivers available to it under federal or state law, including immunity from civil or criminal penalties.

   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 Permittees 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 Permittees 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 Permittees 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 Permittees 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 Permittees 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 Permittees 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)]

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This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the Permittees 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 Permittees 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 Permittees 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 Permittees 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 Permittees' 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 Permittees 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 Permittees' 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 Permittees 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 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 Permittees' 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 Permittees 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 Permittees 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.

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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 Permittees monitor 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 Permittees 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 Permittees become aware of the circumstances. A written submission shall also be provided within five days of the time the Permittees 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 Permittees 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 Permittees become 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.

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b. Bypass not exceeding limitations. The Permittees 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 Permittees know 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 Permittees 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 Permittees 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 Permittees 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 Permittees. 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 Permittees 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 Permittees can identify the cause(s) of the upset;

ii. The permitted facility was at the time being properly operated; and

iii. The Permittees submitted notice of the upset as required in paragraph (f)(2) of Section 13 (24-hour notice).

iv. The Permittees 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).

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d. Burden of proof. In any enforcement proceeding the Permittees 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

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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 Permittees' 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 Permittees 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 Permittees 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 Permittees 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 Permittees, and the Permittees agrees to allow the non-domestic discharge, the user shall submit the application and the Permittees 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 Permittees 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 Permittees 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 Permittees if:

a. The current Permittees 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 Permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and

c. The Director does not notify the existing Permittees and the proposed new Permittees 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 Permittees, 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 Permittees;

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 Permittees has been submitted to the Director.

f. Change the construction schedule for a discharger 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 Permittees with any condition of the permit;

b. The Permittees' failure in the application or during the permit issuance process to disclose fully all relevant facts, or the Permittees' misrepresentation of any relevant facts at any time;

c. A determination that the permitted activity endangers human health or the environment and can only by 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)]

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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 Permittees 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.

30. The requirements arising from or related to this permit are subject to the limitations of the Anti-Deficiency Act, 13. U.S.C. Section 1341, and nothing in their permit shall be construed in a manner that will cause a violation of that Act.

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