

US EPA ARCHIVE DOCUMENT

NPDES Permit No. NN0021610

**AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM**

In compliance with the provisions of the Clean Water Act, as amended (33 U.S.C. 1251 et. seq; the "Act"),

Cameron Trading Post
P.O. Box 339
Cameron, Arizona 86020

is authorized to discharge treated domestic wastewater from the wastewater treatment plant located in Cameron, on private land surrounded by Navajo Nation reservation in Coconino County, Arizona, from Outfall Discharge Number 001,

Latitude: 35° 52' 37.8" N
Longitude: 111° 25' 01.4" W

to receiving waters named the Little Colorado River, in accordance with effluent limitations, monitoring requirements and in the attached 15 pages of U.S. EPA Region 9 *Standard Federal NPDES Permit Conditions*, dated July 27, 2011.

This permit shall become effective September 1, 2012.

This permit and the authorization to discharge shall expire at midnight, August 31, 2017.

Signed this 13th day of August 2012.

For the Regional Administrator

/s/

Nancy Woo, Acting Director
Water Division
U.S. EPA, Region 9

SECTION A. EFFLUENT LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Based upon the current design flow of 0.054 MGD, the permittee is authorized to discharge from Outfall Serial Number 001 treated domestic wastewater.

1. During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the permittee shall not discharge to receiving waters, except from Discharge Outfall No. 001 as specified below.
2. The effluent shall be sampled after final treatment prior to discharge to the Little Colorado River.
3. Such discharge shall be limited and monitored by the permittee as specified below.

Effluent Parameter	Units	Monthly Average	Weekly Average	Daily Maximum	Monitoring Frequency	Sample Type
Flow ¹	MGD	--	--	--	Monthly	Continuous
BOD ₅ ²	mg/l	30	45	--	Monthly	Composite
	kg/day	6.08	9.13	18.25		
TSS ²	mg/l	30	45	--	Monthly	Composite
	kg/day	6.08	9.13	18.25		
<i>E. coli</i>	#/100 ml	126 ³	--	235 ⁴	Monthly	Discrete
TRC ⁵	µg/l	5	--	11.0	Monthly	Discrete
TDS ⁶	mg/l	--	--	--	Quarterly	Discrete
Total Ammonia ⁷ (as N)	mg/l	-- ⁷	--	-- ⁷	Monthly	Discrete
Temperature ⁸	deg F	--	--	--	Monthly	Discrete
pH ⁹	std. units	between 6.5 to 9.0			Monthly	Discrete
Priority Pollutant Scan ¹⁰	µg/l	--	--	--	Once/1 st Quarter during Year 5	Composite

'MGD' indicates units of Million Gallons per Day; 'CFU' is Colony Forming Units.

FOOTNOTES:

1. No effluent limits are set at this time, but monitoring and reporting is required.
2. "BOD₅" = Biochemical Oxygen Demand (5-day test). "TSS" = Total Suspended Solids. For BOD₅ and TSS, the arithmetic means of values, by weight, for effluent samples collected in a period of 30 consecutive calendar days shall not exceed 15 percent of the arithmetic mean of values, by weight, for influent samples collected at approximately the same times during the same period.

3. Geometric mean of samples collected during the calendar month.
4. Single sample maximum
5. "TRC" = Total Residual Chlorine. If chlorination is used for disinfection prior to discharge, the permittee shall at all times operate the plant to achieve the lowest possible residual chlorine while still complying with permit limits for E. coli.

TRC shall also be measured once/month at the outfall and reported on the Discharge Monitoring Reports, along with an estimate of the natural flow of the stream. (When the only flow in the receiving water is the effluent, the "natural flow" should be reported as zero.)

6. Both the plant effluent (Outfall Number 001), the intake water supply shall be sampled and reported. The incremental increase is the difference between the two sample analyses.

Salinity ("TDS") is determined by the "calculation method" (sum of constituents) as described in the latest edition of constituents) as described in the latest edition of "Techniques of Water Resources Investigations of the United States Geological Survey-Methods for Collection and Analysis of Water Samples for Dissolved Minerals and Gases."

7. For total ammonia (in mg-N/liter), the Navajo Nation Surface Water Quality Standards specify ammonia limitations for aquatic and wildlife (warm water habitat) for support and propagation of animals, plants, or other organisms. (See attached total ammonia table on pages 36-37 of the 2007 NNSWQS and the 2010 *draft* NNSWQS revisions.) The criteria for ammonia are pH and temperature dependent; therefore, pH and temperature field measurements must be taken concurrently at the same location as the water samples destined for the laboratory analysis of ammonia.
8. Temperature and pH measurements shall be taken concurrently with measurements for ammonia.
9. Effluent pH units are based on the numeric standards for aquatic, wildlife and livestock, consistent with the NNSWQS. (See page 15 of the 2007 NNSWQS and the *draft* 2010 NNSWQS revisions.) The more stringent standards are associated with the concern for endangered fish species that are present in the San Juan River.
10. Priority Pollutants: The permittee shall monitor for the full list of priority pollutants in the Code of Federal Register (CFR) at 40 CFR Part 423, Appendix A. No limit is set at this time.

SECTION B. GENERAL DISCHARGE SPECIFICATIONS

1. All Waters of the Navajo Nation shall be free from pollutants in amounts or combinations that, for any duration:
 - a. Cause injury to, are toxic to, or otherwise adversely affect human health, public safety, or public welfare.

- b. Cause injury to, are toxic to, or otherwise adversely affect the habitation, growth, or propagation of aquatic life and wildlife.
 - c. Settle to form bottom deposits, including sediments, precipitates and organic materials, that cause injury to, are toxic to, or otherwise adversely affect the habitation, growth, or propagation of aquatic life and wildlife.
 - d. Cause physical, chemical, or biological conditions that promote the habitation, growth or propagation of undesirable, non-indigenous species of plant or animal life in the water body.
 - e. Cause solids, oil, grease, foam, scum, or any other form of objectionable floating debris on the surface of the water body; may cause a film or iridescent appearance on the surface of the water body; or that may cause a deposit on a shoreline, on a bank, or on aquatic vegetation.
 - f. Cause objectionable odor in the area of the water body.
 - g. Cause objectionable taste, odor, color, or turbidity in the water body.
 - h. Cause objectionable taste in edible plant and animal life, including waterfowl that reside in, on or adjacent to the water body.
 - i. 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.
2. All waters of the Navajo Nation shall be free of toxic pollutants from other than natural sources in amounts, concentrations, or combinations which affect the propagation of fish or which of toxic to humans, livestock or other animals, fish or other aquatic organisms, wildlife using aquatic environments for habitation or aquatic organisms for food, or which will or can reasonably be expected to bioaccumulate in tissues of fish, shellfish, or other aquatic organisms to levels which will impair the health of aquatic organisms or wildlife or result in unacceptable tastes, odors or health risks to human consumers.
 3. No person shall place animal carcasses, refuse, rubbish, demolition or construction debris, trash, garbage, motor vehicles, motor vehicle parts, batteries, appliances, tires, or other solid waste into waters of the Navajo Nation or onto their banks.

SECTION C. PERMIT REOPENERS

1. At this time, there is no reasonable potential to establish any other water quality-based limits. Should any monitoring indicate that the discharge cause, has the reasonable potential to cause, or contributes to excursion above a water quality criteria, the permit may be reopened for the imposition of water quality-based limits and/or whole effluent toxicity limits. In accordance with 40 CFR 122 and 124, this permit may be modified to include appropriate conditions or effluent limits, monitoring, or other conditions to implement new regulations, including U.S. EPA-

approved new Tribal water quality standards; or to address new information indicating the presence of effluent toxicity or the reasonable potential for the discharge to cause or contribute to exceedences of water quality standards.

2. In accordance with 40 CFR 122.44(c), EPA may promptly modify or revoke and reissue any permit issued to a treatment works treating domestic sewage (including “sludge only facilities”) to incorporate any applicable standard for sewage sludge use or disposal promulgated under section 405(d) of the CWA, if the standard for sewage sludge use or disposal is more stringent than any requirements for sludge use or disposal in the permit, or controls a pollutant or practice not limited in the permit.

SECTION D. BIOSOLIDS REQUIREMENTS

1. The permittee shall submit a report 60 days prior to disposal of biosolids. The report shall include:
 - a. A map showing biosolids handling facilities (e.g. digesters, lagoons, drying beds, incinerators, location of land application and surface disposal sites).
 - b. The quantity of biosolids produced in dry metric tons.
 - c. The treatment applied to biosolids including process parameters. For example, if the biosolids is digested, report the average temperature and retention time of the digester. If drying beds are used, report depth of application and drying time. If composting is used, report the temperature achieved and duration. Also report dewatering methods and percent biosolids of final reports.
 - d. Disposal methods (e.g., 50% to landfill, 40% land applied, 10% sold as commercial product.) Report the names and locations of all facilities receiving waste.
 - e. If biosolids is to be land-applied, analyses shall be conducted and submitted for Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Molybdenum, Zinc, and Selenium, and for organic-N, ammonium-N, and nitrate-N. The analyses shall be performed using the methods in ATest Methods for Evaluating Solid Waste, Physical/Chemical Methods@ (SW-846) and test results shall be expressed in milligram (mg) pollutant per kilogram (kg) biosolids on a 100% dry weight basis.
 - f. If biosolids is placed in a surface disposal site, analyses shall be submitted for Arsenic, Chromium, and Nickel. A groundwater monitoring plan shall be submitted or a certification from a groundwater scientist that there is no potential for groundwater contamination.
2. The permittee shall comply with all standards for sewer biosolids use and disposal established under Section 405(d) of the Act, including for existing standards under 40 CFR Parts 257, 258 and 503.

3. Reports for biosolids monitoring shall be submitted to:

Regional Biosolids Coordinator
U.S. EPA (WTR-7)
75 Hawthorne Street
San Francisco, CA 94105-3901

SECTION E. MONITORING AND REPORTING

1. Reporting of Monitoring Results

- 2.
- a. The results of all monitoring required by this permit shall be submitted in such a format as to allow direct comparison with effluent limitations and permit requirements. Monitoring results shall be reported during the previous three (3) months on monthly Discharge Monitoring Report (“DMR”) forms (EPA No. 3320-1) supplied by the U.S. EPA Director, to the extent that the results reported may be entered on the forms. The DMR forms shall be submitted quarterly on the 28th day of the month following the previous quarterly reporting period; for example, the three (3) monthly DMR forms for the reporting period January through March shall be submitted by April 28th. In the case of no discharge, the permittee shall submit a DMR indicating no discharge as required. Signed copies of these DMRs, and all other reports required herein, shall be submitted to the U.S. EPA at the following address:

NPDES Data Team
U.S. Environmental Protection Agency
Region IX, Attn: WTR-1
75 Hawthorne Street
San Francisco, CA 94105

- b. The Discharger has the option to submit all monitoring results in the electronic reporting format approved by U.S. EPA. The Discharger may submit DMRs electronically using EPA’s NetDMR application. NetDMR is a national tool for regulated Clean Water Act permittees to submit discharge monitoring reports (DMRs) electronically via a secure Internet application to U.S. EPA. By using NetDMR, dischargers can discontinue mailing hard copy forms under 40 CFR 122.41 and 403.12.
- c. For effluent analyses, the permittee shall utilize an analytical method with a published Method Detection Limit (“MDL”; as defined in Section G of this permit) that is lower than the effluent limitations (or lower than applicable numeric water quality criteria). If all published MDLs are higher than the effluent limitations or water quality criteria, then the permittee shall utilize the analytical method with the lowest published MDL. The permittee shall ensure that the laboratory utilizes a standard calibration where the lowest standard point is equal to or less than the minimum level (“ML”), as defined in Section G (Definitions) of this permit.

For samples collected during the monthly reporting period, report on the DMR form:

- (1) The maximum value, if the maximum value is greater than the ML; or NODI(Q)^a, if the maximum value is greater than or equal to the laboratory's MDL, but less than the ML; or NODI(B)¹, if the maximum value is less than the laboratory's MDL; and
 - (2) The average value of all analytical results where 0 (zero) is substituted for NODI(B) and the laboratory's MDL is substituted for NODI(Q), if more than one sample is collected during the monthly reporting period.
- d. As an attachment to each DMR form submitted during this permit term, the permittee shall report for all parameters with monitoring requirements specified under Section A.3. of this permit: the analytical method number or title, preparation and analytical procedure utilized by the laboratory, and published MDL or ML; the laboratory's MDL, the standard deviation (S) from the laboratory's MDL study, and the number of replicate analyses (n) used to compute the laboratory's MDL; and the ML.

2. Monitoring and Records

In addition to the information requirements specified under 40 CFR 122.41(j)(3), records of monitoring information shall include: Laboratory(ies) which performed the analyses and any comments, case narrative or summary of results produced by the laboratory. These should identify and discuss QA/QC analyses performed concurrently during sample analyses and whether project and 40 CFR Part 136 requirements were met. The summary of results must include information on initial and continuing calibration, surrogate analyses, blanks, duplicates, laboratory control samples, matrix spike and matrix spike duplicate results, sample receipt condition, holding times, and preservation.

3. Twenty Four-Hour Reporting of Noncompliance

- a. In accordance with 40 CFR 122.41(l)(6)(i), (ii) and (iii), the following condition is expressly incorporated into this permit. The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances to the following person:

Manager
CWA Compliance Office (WTR-7)
U.S. EPA Region 9
(415) 972-3577

^a NODI(Q) means "No discharge/No data" (not quantifiable); NODI(B) means "No discharge/No data" (not detected).

If the permittee is unsuccessful in contacting the person above, the permittee shall report by 9 a.m. on the first business day following the noncompliance. A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including dates and times, and, if the noncompliance has not been corrected, the date and/or time it is expected to be corrected; and, steps and/or plans to reduce, eliminate, and prevent reoccurrence of the noncompliance.

- b. The following information shall be included as information which must be reported within 24 hours under this paragraph.
- (1) Any unanticipated bypass which exceeds any effluent limit in the permit (see 40 CFR 122.44(g)).
 - (2) Any upset which exceeds any effluent limit in the permit.
 - (3) Violation of a maximum daily discharge limit for any of the pollutants listed by the Director in the permit to be reported within 24 hours [see 40 CFR 122.44(g).]

SECTION F. INSPECTION AND ENTRY

The permittee shall allow the U.S. EPA Director, or an authorized representative, upon the presentation of credentials and such other documents as may be required by law, to perform inspections under authority of Section 10: Inspection and Entry of the EPA Region 9 *“Standard Federal NPDES Permit Conditions”*, dated July 27, 2011.

SECTION G. DEFINITIONS

The following definitions shall apply unless otherwise specified in this permit:

1. A “composite sample” means a time-proportional mixture of not less than eight discrete aliquots obtained at equal time intervals (e.g., 24-hour composite means a minimum of eight samples collected every three hours.) The volume of each aliquot shall be directly proportional to the discharge flow rate at the time of sampling, but not less than 100 ml. Sample collection, preservation, and handling shall be performed as described in the most recent edition of 40 CFR 136.3, Table II. Where collection, preservation, and handling procedures are not outlined in 40 CFR 136.3, procedures outlined in the 18th edition of *“Standard Methods for the Examination of Water and Wastewater”* shall be used.
2. A “daily discharge” means the “discharge of a pollutant” measured during a calendar day or any 24-hour period that reasonably represents the calendar for purposes of sampling. For pollutants with limitations expressed in terms of mass, the “daily discharge” is calculated as the total mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the “daily discharge”

is calculated as the average measurement of the pollutant over the sampling day.

3. A “daily discharge determination of concentration” made using a composite sample shall be the concentration of the composite sample. When the grab sample technique is used, the “daily discharge” determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during that sampling day.
4. A “daily maximum discharge effluent limitation” means the highest allowable “daily discharge” during the calendar month.
5. A “daily average discharge limitation” means the highest allowable average of “daily discharges” over a calendar month, calculated as the sum of all “daily discharges” measured during a calendar month divided by the number of “daily discharges” measured during that month.
6. A “discrete sample” means any individual sample collected in less than 15 minutes.
7. The “EPA” means the United States Environmental Protection Agency.
8. A “grab” sample, for monitoring requirements, is defined as a single “dip and take” sample collected at a representative point in the discharge stream.
9. An “instantaneous” measurement, for monitoring requirements, is defined as a single reading, observation, or measurement.
10. The “method detection limit” or “MDL” is the minimum concentration of an analyte that can be detected with 99% confidence that the analyte concentration is greater than zero, as defined by the specific laboratory method listed in 40 CFR Part 136. The procedure for determination of a laboratory MDL is in 40 CFR Part 136, Appendix B.
11. The “minimum level” or “ML” is the concentration at which the entire analytical system must give a recognizable signal and acceptable calibration point. The ML 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 (as defined in EPA’s draft National Guidance for the Permitting, Monitoring, and Enforcement of Water Quality-Based Effluent Limitations Set Below Analytical Detection/Quantitative Levels, March 22, 1994). Published method-specific MLs are contained in 40 CFR Part 136, Appendix A, and must be utilized if available. If a published method-specific ML is not available, then an interim ML shall be calculated. The interim ML is equal to 3.18 times the published method-specific MDL rounded to the nearest multiple of 1, 2, 5, 10, 20, 50, etc. (When neither an ML nor an MDL are available under 40 CFR Part 136, an interim ML should be calculated by multiplying the best estimate of detection by a factor of 3.18; when a range of detection is given, the lower end value of the range of detection should be used to calculate the ML.) At this point in the calculation, a different procedure is used for metals, than for non-metals:

- a. For metals, due to laboratory calibration practices, calculated MLs may be rounded to the nearest whole number.
 - b. For non-metals, because analytical instruments are generally calibrated using the ML as the lowest calibration standard, the calculated ML is then rounded to the nearest multiple of $(1, 2, \text{ or } 5) \times 10^n$, where n is zero or an integer. (For example, if an MDL is $2.5 \mu\text{g/l}$, then the calculated ML is: $2.5 \mu\text{g/l} \times 3.18 = 7.95 \mu\text{g/l}$. The multiple of $(1, 2, \text{ or } 5) \times 10^n$ nearest to 7.95 is $1 \times 10^1 = 10 \mu\text{g/l}$, so the calculated ML, rounded to the nearest whole number, is $10 \mu\text{g/l}$.)
12. A “monthly average” concentration for *E. coli* means the geometric mean of measurements made during a month. The geometric mean is the n th root of the product of n numbers.
 13. A “monthly average” limitation means the highest allowable discharge of “daily discharges” over a calendar month, calculated as the sum of all “daily discharges” measured during a calendar month divided by the number of “daily discharges” measure during that month.
 14. The “Regional Administrator” means EPA Region 9’s Regional Administrator.
 15. A “weekly average” (or 7-day average) is the arithmetic mean of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The 7-day and weekly averages are applicable only to those effluent characteristics for which there are 7-day average effluent limitations. The calendar week which begins on Sunday and ends on Saturday, shall be used for purposes of reporting self-monitoring data on discharge monitoring report forms. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for that calendar week shall be included in the data for the month that contains month that contains the Saturday.

SECTION H. EPA REGION IX STANDARD CONDITIONS

See the attached 11 pages of U.S. EPA Region 9 *Standard Federal NPDES Permit Conditions*, dated July 27, 2011.

ATTACHMENT

**2007 Navajo Nation Surface Water Quality Standards
(and *Draft 2010* NNSWQS)
Table 206.2 Maximum Total Ammonia Concentration
Acute Standard for Aquatic and Wildlife Habitat
(Total Ammonia in mg-N/liter)**

pH	Salmonids Absent
6.5	48.8
6.6	46.8
6.7	44.6
6.8	42.0
6.9	39.1
7.0	36.1
7.1	32.8
7.2	29.5
7.3	26.2
7.4	23.0
7.5	19.9
7.6	17.0
7.7	14.4
7.8	12.1
7.9	10.1
8.0	8.40
8.1	6.95
8.2	5.72
8.3	4.71
8.4	3.88
8.5	3.20
8.6	2.65
8.7	2.20
8.8	1.84
8.9	1.56
9.0	1.32

NOTES:

1. pH is a field measurement to be taken at the same time and location as the water samples destined for the laboratory analysis of ammonia.
2. If the field measured pH value falls between the tabular values, round the field measured value according to standard scientific rounding procedures to the nearest tabular value to determine the ammonia standard.

**2007 Navajo Nation Surface Water Quality Standards
 (and Draft 2010 NNSWQS)
 Table 206.3 Maximum Total Ammonia Concentration
 Chronic Standard for Aquatic and Wildlife Habitat
 (Total Ammonia mg-N/liter)**

pH	Temperature in Degrees Celsius										pH
	0	14	16	18	20	22	24	26	28	30	
6.5	6.67	6.67	6.06	5.33	4.68	4.12	3.62	3.18	2.80	2.46	6.5
6.6	6.57	6.57	5.97	5.25	4.61	4.05	3.56	3.13	2.75	2.42	6.6
6.7	6.44	6.44	5.86	5.15	4.52	3.98	3.50	3.07	2.70	2.37	6.7
6.8	6.29	6.29	5.72	5.03	4.42	3.89	3.42	3.00	2.64	2.32	6.8
6.9	6.12	6.12	5.56	4.89	4.30	3.78	3.32	2.92	2.57	2.25	6.9
7.0	5.91	5.91	5.37	4.72	4.15	3.65	3.21	2.82	2.48	2.18	7.0
7.1	5.67	5.67	5.15	4.53	3.98	3.50	3.08	2.70	2.38	2.09	7.1
7.2	5.39	5.39	4.90	4.31	3.78	3.33	2.92	2.57	2.26	1.99	7.2
7.3	5.08	5.08	4.61	4.06	3.57	3.13	2.76	2.42	2.13	1.87	7.3
7.4	4.73	4.73	4.30	3.78	3.32	2.92	2.57	2.26	1.98	1.74	7.4
7.5	4.36	4.36	3.97	3.49	3.06	2.69	2.37	2.08	1.83	1.61	7.5
7.6	3.98	3.98	3.61	3.18	2.79	2.45	2.16	1.90	1.67	1.47	7.6
7.7	3.58	3.58	3.25	2.86	2.51	2.21	1.94	1.71	1.50	1.32	7.7
7.8	3.18	3.18	2.89	2.54	2.23	1.96	1.73	1.52	1.33	1.17	7.8
7.9	2.80	2.80	2.54	2.24	1.96	1.73	1.52	1.33	1.17	1.03	7.9
8.0	2.43	2.43	2.21	1.94	1.71	1.50	1.32	1.16	1.02	0.897	8.0
8.1	2.10	2.10	1.91	1.68	1.47	1.29	1.14	1.00	0.879	0.773	8.1
8.2	1.79	1.79	1.63	1.43	1.26	1.11	0.973	0.855	0.752	0.661	8.2
8.3	1.52	1.52	1.39	1.22	1.07	0.941	0.827	0.727	0.639	0.562	8.3
8.4	1.29	1.29	1.17	1.03	0.906	0.796	0.700	0.615	0.541	0.475	8.4
8.5	1.09	1.09	0.990	0.870	0.765	0.672	0.591	0.520	0.457	0.401	8.5
8.6	0.920	0.920	0.836	0.735	0.646	0.568	0.499	0.439	0.386	0.339	8.6
8.7	0.778	0.778	0.707	0.622	0.547	0.480	0.422	0.371	0.326	0.287	8.7
8.8	0.661	0.661	0.601	0.528	0.464	0.408	0.359	0.315	0.277	0.244	8.8
8.9	0.565	0.565	0.513	0.451	0.397	0.349	0.306	0.269	0.237	0.208	8.9
9.0	0.486	0.486	0.442	0.389	0.342	0.300	0.264	0.232	0.204	0.179	9.0

NOTES:

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 the field measured pH value falls between the tabular values, round the field measured value according to standard scientific rounding procedures to the nearest tabular value to determine the ammonia standard.

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