DRAFT FACT SHEET

ARIZONA POLLUTANT DISCHARGE ELIMINATION SYSTEM (AZPDES)

This document gives pertinent information concerning the reissuance of the AZPDES permit listed below. This facility is an urban lake supplied by a groundwater well, with an average daily discharge rate of 0.08 million gallons per day (mgd) and thus is considered to be a minor facility under the NPDES program. The discharge limitations contained in this permit will maintain the Water Quality Standards listed in Arizona Administrative Code (A.A.C.) R18-11-101 et. seq. This permit is proposed to be issued for a period of 5 years.

Permittee's Name:	City of Tucson Parks and Recreation Department					
Permittee's Mailing Address:	900 S. Randolph Way Tucson, AZ 85716					
Facility Name:	Lakeside Lake Park					
Facility Address or Location:	8300 E. Stella Road Tucson, AZ 85730					
County:	Pima					
Contact Person(s):	Scott Renfrow					
Phone/e-mail address	(520) 837-8165					
AZPDES Permit Number:	AZ0024201					
Inventory Number:	105642					

Renewal
December 15, 2017
12/21/17
6/16/18

208 Consistency:

208 Plan consistency is not required for industrial facilities.



II. GENERAL FACILITY INFORMATION	
Type of Facility:	Urban Lake
Facility Location Description:	Lakeside Park Lake is a 13-acre engineered
	impoundment located at Chuck Ford Lakeside Park in
	Tucson, Arizona. The Lake is within the natural
	drainage of Atturbury Wash. When water overtops the
	dam at the lake, it flows north in Atturbury Wash for
	about 0.5 miles before it meets Pantano Wash. The
	Lake is an urban fishing lake located within a
	municipal park that is owned and operated by the City
	of Tucson. As an urban fishery, it was added to the
	Arizona Game and Fish Department's urban fishing
	program in 1986. The Game and Fish Department
	stocks the lake with different varieties of fish,
Nature of facility discharge:	depending on the season. Groundwater is pumped from nearby well PK-009A
Nature of facility discharge.	in order to maintain a sufficient water level in the
	lake.
Average flow per discharge:	The applicant indicates that the average flow per
	discharge is 0.08 MGD.
Continuous or intermittent discharge:	Continuous
Discharge pattern summary:	Typically discharged to the lake continuously except
	for periods following heavy precipitation.

When Atturbury Wash is not flowing and no water is exiting over the spillway, the Lake has no outlet. The primary water source is groundwater from Well PK 009A. Well PK 009A has been the primary water source since 2005. Aluminum sulfate is used to reduce phosphorous loading within the lake, and remove oxygendemanding substances from the water column. This is especially useful following turbid flow events via Atturbury Wash.

III. RECEIVING WATER

The State of Arizona has adopted water quality standards to protect the designated uses of its surface waters. Streams have been divided into segments and designated uses assigned to these segments. The water quality standards vary by designated use depending on the level of protection required to maintain that use.

Receiving Water:	Lakeside Park Lake				
River Basin:	Santa Cruz River Basin				
Outfall Location:	Outfall 001: Township 14S, Range 15E, Section 28 Latitude 32° 11' 15", Longitude 110° 48' 57"				

The outfall discharges to, or the discharge may reach, a surface water listed in Appendix B of A.A.C. Title 18, Chapter 11, Article 1.



Designated uses for the	Aquatic and Wildlife warm water (A&Ww)
receiving water listed	Partial Body Contact (PBC)
above:	Fish Consumption (FC)
Is the receiving water on	Yes, the receiving water is listed as impaired for high pH, low dissolved oxygen
the 303(d) list?	(DO), ammonia, and narrative nutrient standards.
	A TMDL for Lakeside Lake was completed in 2005.

Given the uses stated above, the applicable narrative water quality standards are described in A.A.C. R18-11-108, and the applicable numeric water quality standards are listed in A.A.C. R18-11-109 and in Appendix A thereof. There are two standards for the Aquatic and Wildlife uses, acute and chronic. In developing AZPDES permits, the standards for all applicable designated uses are compared and limits that will protect for all applicable designated uses are developed based on the standards.

IV. STATUS OF COMPLIANCE WITH THE EXISTING AZPDES PERMIT						
Date of most recent	8/20/15; no potential violations were noted as a result of this inspection.					
inspection:						
DMR files reviewed:	8/2013 through 12/2017					
Lab reports reviewed:	8/2013 through 12/2017					
DMR Exceedances:	None					
NOVs issued:	None					
NOVs closed:	N/A					
Compliance orders:	None					

V. PROPOSED PERMIT CHANGES

The following table lists the major changes from the previous permit in this draft permit.

Parameter	Existing Permit	Proposed permit	Reason for change
Reporting Location	Mail in hard copies of	DMRs and other reports	Language added to
	DMRs and other	to be submitted	support the NPDES
	attachments	electronically through	electronic DMR
		myDEQ portal	reporting rule that
			became effective on
			December 21, 2015.
Cadmium	Assessment Level	Limited	Data submitted
			indicated reasonable
			potential (RP) for an



			exceedance of a standard.
Zinc	Discharge	Limited	Data submitted
	characterization		indicated reasonable
			potential (RP) for an
			exceedance of a
			standard.
Discharge Characterization	Required for General	Not required	Replaced with
Testing	Chemistry and		Assessment Level
	Microbiology, Selected		Monitoring
	Metals and Trace		Requirements for Urban
	Substances		Lakes

Anti-backsliding considerations – "Anti-backsliding" refers to statutory (Section 402(o) of the Clean Water Act) and regulatory (40 CFR 122.44(l)) requirements that prohibit the renewal, reissuance, or modification of an existing NPDES permit that contains effluent limits, permit conditions, or standards that are less stringent than those established in the previous permit. The rules and statutes do identify exceptions to these circumstances where backsliding is acceptable. This permit has been reviewed and drafted with consideration of anti-backsliding concerns.

No limits have been removed from the permit. Limits are retained in the draft permit for parameters where reasonable potential (RP) for an exceedance of a standard continues to exist or is indeterminate. In these cases, limits will be recalculated using the most current Arizona Water Quality Standards (WQS). If less stringent limits result due to a change in the WQS then backsliding is allowed in accordance with 303(d)(4) if the new limits are consistent with antidegradation requirements and the receiving water is in attainment of the new standard; see Section XII for information regarding antidegradation requirements.

VI. DETERMINATION OF DISCHARGE LIMITATIONS AND ASSESSMENT LEVELS

When determining what parameters need monitoring and/or limits included in the draft permit, both technology-based and water quality-based criteria were compared and the more stringent criteria applied.

Technology-based Limitations:

There are no applicable technology-based limits for this type of discharge.

Numeric Water Quality Standards: As outlined in A.A.C. R18-11-109 and Appendix A:

Per 40 CFR 122.44(d)(1)(ii), (iii) and (iv), discharge limits must be included in the permit for parameters with "reasonable potential" (RP), that is, those known to be or expected to be present in the effluent at a level that could potentially cause any applicable numeric water quality standard to be exceeded. RP refers to the possibility, based on the statistical calculations using the data submitted, or consideration of other factors to determine whether the discharge may exceed the Water Quality Standards. The procedures used to determine RP are outlined in the *Technical Support Document for Water Quality-based Toxics Control (TSD)* (EPA/505/2-90-001). In most cases, the highest reported value for a parameter is multiplied by a factor (determined from the variability of the data and number of samples) to determine a "highest estimated value". This value is then compared to the lowest applicable Water Quality Standard for the receiving water. If the value is greater than the standard, RP exists and a water quality-based effluent limitation (WQBEL) is required in the permit for that parameter. RP may also be determined from BPJ based on knowledge of the treatment



facilities and other factors. The basis for the RP determination for each parameter with a WQBEL is shown in the table below.

The proposed permit limits were established using a methodology developed by EPA. Long Term Averages (LTA) were calculated for each designated use and the lowest LTA was used to calculate the average monthly limit (AML) and maximum daily limit (MDL) necessary to protect all uses. This methodology takes into account criteria, effluent variability, and the number of observations taken to determine compliance with the limit and is described in Chapter 5 of the TSD. Limits based on A&W criteria were developed using the "two-value steady state wasteload allocation" described on page 99 of the TSD. When the limit is based on human health criteria, the monthly average was set at the level of the applicable standard and a daily maximum limit was determined as specified in Section 5.4.4 of the TSD.

<u>Mixing Zone:</u> The limits in this permit were determined without the use of a mixing zone. Arizona state water quality rules require that water quality standards be achieved without mixing zones unless the permittee applies for and is approved for a mixing zone. Since a mixing zone was not applied for or granted, all water quality criteria are applied at end-of-pipe.

Assessment Levels (ALs): ALs are listed in Part I.B of the permit. An AL differs from a discharge limit in that an exceedance of an AL is not a permit violation. Instead, ALs serve as triggers, alerting the permitting authority when there is cause for re-evaluation of RP for exceeding a water quality standard, which may result in new permit limitations. The AL numeric values also serve to advise the permittee of the analytical sensitivity needed for meaningful data collection. Trace substance monitoring is required when there is uncertain RP (based on non-detect values or limited datasets) or a need to collect additional data or monitor treatment efficacy on some minimal basis. A reopener clause is included in the draft permit should future monitoring data indicate water quality standards are being exceeded.

The requirement to monitor for these parameters is included in the draft permit according to A.A.C. R18-11-104(C) and Appendix A. ALs listed for each parameter were calculated in the same manner that a limit would have been calculated (see Numeric Water Quality Standards Section above).

<u>Hardness:</u> The permittee is required to sample hardness as CaCO₃ at the same time the trace metals are sampled because the water quality standards for some metals are calculated using the water hardness values. The hardness value of 171 mg/L (the average hardness of the receiving water as supplied in the application) was used to calculate the applicable water quality standards and any assessment levels or limits for the hardness dependent metals (cadmium, copper, lead, nickel, silver and zinc).

Whole Effluent Toxicity (WET): WET testing is required in the draft permit (Parts I.C and III) to evaluate the discharge according to the narrative toxic standard in A.A.C. R18-11-108(A)(5), as well as whether the discharge has RP for WET per 40 CFR 122.44(d)(iv).

WET testing for chronic toxicity shall be conducted using the following three surrogate species:

- *Ceriodaphnia dubia* (water flea) for evaluating toxicity to invertebrates
- Pimephales promelas (fathead minnow) for evaluating toxicity to vertebrates
- Pseudokirchneriella subcapitata (formerly known as Selenastrum capricornutum or Raphidocelis subcapitata) (a green alga) for evaluating toxicity to plant life



ADEQ does not have a numeric standard for Whole Effluent Toxicity. However, ADEQ adopted the EPA recommended chronic toxicity benchmark of 1.0 TUc for a four day exposure period. Using this benchmark, the action levels for WET included in the draft permit were calculated in accordance with the methods specified in the TSD. The species chosen for WET testing are as recommended in the TSD and in Regions 9 & 10 Guidance for Implementing Whole Effluent Toxicity Testing Programs.

An exceedance of an action level will trigger follow-up testing to determine if effluent toxicity is persistent. If toxicity above an action level is found in a follow-up test, the permittee will be required to conduct a Toxicity Reduction Evaluation (TRE) and possibly a Toxicity Identification Evaluation (TIE) to identify the source of toxicity and reduce toxicity. These conditions are required to ensure that toxicants are not discharged in amounts that are toxic to organisms [A.A.C. R18-11-108(A)(5)]. A reopener clause is included in accordance with 40 CFR Parts 122 and 124 and AAC R18-9-B906.

The draft permit requires discrete samples be collected for WET testing. WET sampling must coincide with testing for all the parameters in Parts I.A and B of the draft permit, when testing of those parameters is required, to aid in the determination of the cause of toxicity if toxicity is detected. Additional procedural requirements for the WET test are included in the proposed permit.

The draft permit requires WET test results to be reported on discharge monitoring reports and submittal of the full WET lab report to ADEQ.

Urban Lake Monitoring:

The State of Arizona has adopted water quality standards in Appendix B of A.A.C. Title 18, Chapter 11, Article 1 to protect the designated uses of urban lakes. Monitoring requirements and assessment levels have been set in the permit in order to evaluate the impacts of the discharges on downstream uses. Monitoring one time per year will be required for the parameters listed in Table 2 at the point of entry to the lake from Outfall 001.

Permit Limitations and Monitoring Requirements:

The table that follows summarizes the parameters that are limited in the permit and the rationale for that decision. Also included are the parameters that require monitoring without any limitations or that have not been included in the permit at all and the basis for those decisions. The corresponding monitoring requirements are shown for each parameter. In general, the regulatory basis for monitoring requirements is per 40 CFR §122.44(i) *Monitoring requirements*, and 40 CFR §122.48(b), *Required monitoring*; all of which have been adopted by reference in A.A.C. R18-9-A905, *AZPDES Program Standards*.



Parameter	Lowest Standard / Designated Use	Maximum Reported Daily Value	No. of Samples	Estimated Maximum Value	RP Determination	Proposed Monitoring Requirement/ Rationale (1)
Flow (Outfall 001)						Discharge flow is to be monitored on a continual basis using a flow meter.
pH (Outfall 001 and In-Lake)	Minimum: 6.5 Maximum: 9.0 A&Wedw and PBC A.A.C. R18-11-109(B)	8.89	118	N/A	WQBEL or TBEL is always applicable to WWTPs.	pH is to be monitored using a discrete sample of the discharge and a WQBEL is set. 40 CFR Part 136 specifies that grab samples must be collected for pH. At least one sample must coincide with WET testing to aid in the determination of the cause of toxicity if toxicity is detected. pH sampling must also coincide with ammonia sampling when required.
Temperature (In- Lake)	No applicable numeric standard	30.2º C	118	N/A	N/A	Temperature is to be monitored for discharge characterization by discrete sample. 40 CFR Part 136 specifies that discrete samples must be collected for temperature.
Ammonia (In-Lake)	Standard varies with temperature and pH	0.54 mg/L	118	N/A	No RP	Lake Monitoring required; no limit is set.
Nutrients (Total Nitrogen and Total Phosphorus) (In- Lake)	No applicable standard. Monitoring required for lake management per TMDL.	N- 1.9 mg/L P- 2.2 mg/L	N-102 P-118	N/A	N/A	Lake Monitoring required; no limit is set.
Chlorophyll-a (In- Lake)	Target threshold of 50 ug/L given in TMDL	52.71	118	N/A	N/A	Monitoring is required in the Lake and an in-Lake limit is set associated with the Lake Management Plan requirements.
Dissolved Oxygen (In-Lake)	≥ 6.0 mg/L, R18-11-109.E.1	15.68 mg/L	118	N/A	N/A	Monitoring is required in the Lake and an in-Lake limit is set associated with the Lake Management Plan requirements.
Aluminum (total and dissolved) (In-Lake)	No applicable numeric standards Monitoring required for lake management per TMDL.	1.74 mg/L Dissolved 6.83 mg/L total	118	N/A	N/A	Aluminum is to be monitored in the Lake; no limit is set.
Ortho-phosphorous (In-Lake)	No applicable numeric standards Monitoring required for lake management per TMDL.	0.099	118	N/A	N/A	Lake Monitoring required; no limit is set.
Antimony (Outfall 001)	30 μg/L/ A&Ww chronic	<6 µg/L	6	N/A	No RP	Monitoring not required.
Arsenic (Outfall 001)	80 μg/L/ FC	5.1 μg/L	5	21.42 µg/L	No RP	Monitoring not required.
Beryllium (Outfall 001)	5.3 μg/L/ A&Ww chronic	<5 μg/L	6	N/A	No RP	Monitoring not required.
Cadmium (2) (Outfall 001)	3.3 µg/L/ A&Ww chronic	3.2 μg/L	9	10.2 μg/L	RP Exists	Monitoring required and a WQBEL is set.
Chromium (Total) (Outfall 001)	100 μg/L/ PBC	<10 µg/L	8	N/A	No RP	Monitoring not required.
Chromium VI (Outfall 001)	11 µg/L/ A&Ww chronic	<10 μg/L	6	N/A	No RP (Based on total chromium data)	Monitoring not required.



Parameter	Lowest Standard Use	/ Designated	Maximum Reported Daily Value	No. of Samples	Estimated Maximum Value	RP Determination	Proposed Monitoring Requirement/ Rationale (1)
Copper (2) (Outfall 001)	14 μg/L/ A&Ww chronic		<10 μg/L	10	N/A	No RP	Monitoring not required.
Hardness (In-Lake)	No applicable standard. Hardness is used to determine standards for specific metal parameters.		183 mg/L	6	N/A	N/A	A&W standards for cadmium, copper, lead, nickel, silver and zinc used for RP determinations were based on the average receiving water hardness value of 171 mg/L. Monitoring for hardness is required whenever monitoring for hardness dependent metals is required.
Lead (2) (Outfall 001)	4.5 μg/L / A&Ww chro	onic	<10 μg/L	10	N/A	RP Indeterminate (High LOQ)	Monitoring required with an Assessment Level.
Mercury (Outfall 001)	0.01 µg/L/ A&Ww chr	ronic	<3.3 µg/L	9	N/A	RP Indeterminate (High LOQ)	Monitoring required with an Assessment Level.
Nickel (2) (Outfall 001)	81.8 µg/L/ A&Ww chr	ronic	<5 μg/L	6	N/A	No RP	Monitoring not required.
Selenium (Outfall 001)	2 μg/L/ A&Ww chroni	С	<10 μg/L	8	N/A	RP Indeterminate (High LOQ)	Monitoring required with an Assessment Level.
Silver (2) (Outfall 001)	8.1 μg/L/ A&Ww acut	е	<5 μg/L	9	8.0 µg/L	No RP	Monitoring not required.
Thallium (Outfall 001)	7.2 μg/L/ FC		<10 µg/L	9	N/A	No RP	Monitoring not required.
Zinc (2) (Outfall 001)	185 μg/L/ A&Ww acu	te and chronic	81.3 μg/L	6	309	RP Exists	Monitoring required and a WQBEL is set.
Whole Effluent Toxicity (WET) (Outfall 001)	No toxicity (A.A.C. R18-11-108(A)(6)	Pseudo- kirchneriella subcapitata (3)	1.0 TUc	1	N/A	RP Indeterminate	Monitoring required and an action level is set.
		Pimephales promelas	1.0 TUc	1	N/A	RP Indeterminate	Monitoring required and an action level is set.
		Ceriodaphnia dubia	1.0 TUc	1	N/A	RP Indeterminate	Monitoring required and an action level is set.

- Footnotes:
 (1) The monitoring frequencies are as specified in the permit.
 - (2) Hardness-dependent metal the standard is for thisparameteris based on the average hardness value of the effluent or receiving water as indicated above.

 (3) Formerly known as *Selenastrum capricornutum or Raphidocelis subcapitata*.



VII. NARRATIVE WATER QUALITY STANDARDS

All narrative limitations in A.A.C. R18-11-108 that are applicable to the receiving water are included in Part I, Sections E and F of the draft permit.

VIII. MONITORING AND REPORTING REQUIREMENTS (Part II of Permit)

Section 308 of the Clean Water Act and 40 CFR Part 122.44(i) require that monitoring be included in permits to determine compliance with effluent limitations. Additionally, monitoring may be required to gather data for future effluent limitations or to monitor effluent impacts on receiving water quality.

Monitoring frequencies are based on the nature and effect of the pollutant, as well as a determination of the minimum sampling necessary to adequately monitor the facility's performance. Monitoring frequencies for some parameters may be reduced in second term permits if all monitoring requirements have been met and the limits or ALs for those parameters have not been exceeded during the first permit term.

Discrete (i.e., grab) samples are specified in the permit for all parameters. The quality of the discharge is not expected to be highly variable.

Monitoring locations are specified in the permit (Part I.A, I.B, and Part I.J) in order to ensure that representative samples of the influent and effluent are consistently obtained.

The requirements in the permit pertaining to Part II, Monitoring and Reporting, are included to ensure that the monitoring data submitted under this permit is accurate in accordance with 40 CFR 122.41(e). The permittee has the responsibility to determine that all data collected for purposes of this permit meet the requirements specified in this permit and is collected, analyzed, and properly reported to ADEQ.

The permit (Part II.A.2) requires the permittee to keep a Quality Assurance (QA) manual at the facility, describing sample collection and analysis processes; the required elements of the QA manual are outlined.

Reporting requirements for monitoring results are detailed in Part II, Sections B.1 and 2 of the permit, including completion and submittal of Discharge Monitoring Reports (DMRs).

The permittee is responsible for conducting all required monitoring and reporting the results to ADEQ on DMRs or as otherwise specified in the permit.

<u>Electronic reporting.</u> The US EPA has published a final regulation that requires electronic reporting and sharing of Clean Water Act National Pollutant Discharge Elimination System (NPDES) program information instead of the current paper-based reporting (Federal Register, Vol. 80, No. 204, October 22, 2015). Beginning December 21, 2016 (one year after the effective date of the regulation), the Federal rule requires permittees to make electronic submittals of any monitoring reports and forms called for in their permits. ADEQ has created an online portal called myDEQ that allows users to submit their discharge monitoring reports and other applicable reports required in the permit.

Requirements for retention of monitoring records are detailed in Part II.D of the permit.



IX. SPECIAL CONDITIONS (Part IV in Permit)

Lake Monitoring Requirements

The regulations under 40 CFR 122.43(a) state that:

"(a) In addition to conditions required in all permits (122.41 and 122.42), the Director shall establish conditions, as required on a case-by-case basis, to provide for and assure compliance with all applicable requirements of CWA and regulations."

The draft permit requires the permittee to maintain a Lake Management Plan (LMP) which is a requirement of the TMDL. The LMP must describe how the Lake will be managed and monitored to assure compliance with permit conditions. In addition, the LMP must include steps needed to implement alum additions to the Lake if needed to maintain required phosphorous levels in the Lake. The LMP shall be reviewed on a quarterly basis and changes made accordingly.

Permit Reopener

This permit may be modified based on newly available information; to add conditions or limits to address demonstrated effluent toxicity; to implement any EPA-approved new Arizona water quality standard; or to re-evaluate reasonable potential (RP), if assessment levels in this permit are exceeded [A.A.C. R18-9-B906 and 40 CFR Part 122.62 (a) and (b)].

X. ANTIDEGRADATION

Antidegradation rules have been established under A.A.C. R18-11-107 to ensure that existing surface water quality is maintained and protected. Lakeside Lake is located in what was once an ephemeral wash and is intended to be filled with stormwater. However, to maintain the water elevations groundwater is added to the Lake between rainfall events. The Lake will have different water quality depending on time since the last significant rainfall event and also on the amount of groundwater added to the Lake. The Lake does not have a uniform baseline water quality. Discharge limitations and monitoring requirements have been established under the proposed permit to ensure that the discharge will meet the applicable water quality standards. As long as the permittee maintains consistent compliance with these provisions, the designated uses of the receiving wash will be presumed protected, and the facility will be deemed to meet currently applicable antidegradation requirements under A.A.C. R18-11-107(C).

XI. STANDARD CONDITIONS

Conditions applicable to all NPDES permits in accordance with 40 CFR, Part 122 are attached as an appendix to this permit.

XII. ADMINISTRATIVE INFORMATION

Public Notice (A.A.C. R18-9-A907)

The public notice is the vehicle for informing all interested parties and members of the general public of the contents of a draft AZPDES permit or other significant action with respect to an AZPDES permit or application. The basic intent of this requirement is to ensure that all interested parties have an opportunity to comment on significant actions of the permitting agency with respect to a permit application or permit. This permit will be public noticed in a local newspaper after a pre-notice review by the applicant and other affected agencies.



Public Comment Period (A.A.C. R18-9-A908)

Rules require that permits be public noticed in a newspaper of general circulation within the area affected by the facility or activity and provide a minimum of 30 calendar days for interested parties to respond in writing to ADEQ. After the closing of the public comment period, ADEQ is required to respond to all significant comments at the time a final permit decision is reached or at the same time a final permit is actually issued.

Public Hearing (A.A.C R18-9-A908(B))

A public hearing may be requested in writing by any interested party. The request should state the nature of the issues proposed to be raised during the hearing. A public hearing will be held if the Director determines there is a significant amount of interest expressed during the 30-day public comment period, or if significant new issues arise that were not considered during the permitting process.

EPA Review (A.A.C. R18-9-A908(C))

A copy of this draft permit and any revisions made to this draft as a result of public comments received will be sent to EPA Region 9 for review. If EPA objects to a provision of the draft, ADEQ will not issue the permit until the objection is resolved.

XIII. ADDITIONAL INFORMATION

Additional information relating to this proposed permit may be obtained from:

Arizona Department of Environmental Quality
Water Quality Division – AZPDES Individual Permits Unit
Attn: Richard Mendolia
1110 West Washington Street
Phoenix, Arizona 85007

Or by contacting Richard Mendolia (602) 771 – 4374 or by e-mail at rjm@azdeq.gov.

XV. INFORMATION SOURCES

While developing effluent limitations, monitoring requirements, and special conditions for the draft permit, the following information sources were used:

- 1. AZPDES Permit Application Forms 1 and 2C, received December 15, 2017, along with supporting data, facility diagram, and maps submitted by the applicant with the application forms.
- 2. ADEQ files on Lakeside Lake Park.
- 3. ADEQ Geographic Information System (GIS) Web site
- 4. Arizona Administrative Code (AAC) Title 18, Chapter 11, Article 1, *Water Quality Standards for Surface Waters*, adopted December 31, 2016.
- 5. A.A.C. Title 18, Chapter 9, Article 9. Arizona Pollutant Discharge Elimination System rules.
- 6. Code of Federal Regulations (CFR) Title 40:

Part 122, EPA Administered Permit Programs: The National Pollutant Discharge Elimination System.

Part 124, *Procedures for Decision Making*.



- 7. EPA Technical Support Document for Water Quality-based Toxics Control dated March 1991.
- 8. Regions 9 & 10 Guidance for Implementing Whole Effluent Toxicity Testing Programs, US EPA, May 31, 1996.
- 9. Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms (EPA /821-R-02-013).
- 10. U.S. EPA NPDES Permit Writers' Manual, September 2010.

