

Active Management Area:	Prescott AMA
ADWR Groundwater Basin/Sub-basin	Little Chino Sub-basin
Cadastral Location of Facility:	SW ¼ of SE ¼, Section 19, T15N, R1W and NE ¼ of NW ¼ and NW ¼ of NE ¼, Section 30, T15N, R1W, GSRB&M
General Location of Facility:	Melville Drive, between Prescott Municipal Airport and Granite Creek
Maximum Storage at Facility:	12,000 acre-feet per annum
Source Water to be Stored:	Effluent and Surface Water from Granite and Willow Creeks
Effective Date:	October 5, 2015
Expiration Date:	October 5, 2035

Permit Conditions

1. Hydrologic Report:

The facility shall be constructed and operated as specified in the following documents, correspondence and reports (collectively "the hydrologic report"), which are incorporated in and made a part of this permit:

- a. *City of Prescott Recharge Facility Hydrologic Report In Support of Renewal of Underground Storage Facility Permit and Water Storage Permits*, dated May 16, 2008.
- b. *City of Prescott Recharge Facility Response to ADWR's August 5, 2008, Second Incomplete and Incorrect Determination for Underground Storage Facility (USF) Application No. 71-519567.0001 and Water Storage (WS) Application No. 73-519567.0001*, dated November 2008.
- c. *USF Permit Application Report, Modification to USF Permit No. 71-519567.0001, City of Prescott Recharge Facility, City of Prescott, Yavapai County, Arizona*, dated December, 2013.
- d. *USF Application 71-519567.0002 Response to Incomplete and Incorrect Determination Letter Dated March 17, 2014*, dated December 23, 2014.
- e. *Email with Attachments from Jeff Low to Tracey Carpenter, "FW: Prescott USF – Questions to Resolve"* dated February 23, 2015.

2. Annual Reporting Schedule:

The permittee shall submit all monitoring data and analyses in the form of annual supplemental data reports as specified below:

The permittee shall submit an annual report, on an ADWR-approved form, and a supplemental data report no later than March 31 following the end of each completed annual reporting period. The first reporting period shall be from the effective date of this permit through December 31, 2015. Subsequent reporting periods shall be from January 1 through December 31. Any fourth quarter data report required by this permit may be combined with the supplemental data report for that year. Annual reports are required regardless of the operational status of the facility. If no deliveries are made to the facility during the reporting period, the permittee shall indicate that fact on the annual report and in the supplemental data report. **The permittee shall send one (1) copy of all annual reports and supplemental data reports to the Recharge and Assured/Adequate Water Supply Program, Water Planning Division, Arizona Department of Water Resources, 3550 North Central Avenue, Phoenix, Arizona 85012.**

3. Annual Supplemental Reporting Requirements:

The annual supplemental data reports shall include all information and monitoring data required by this permit and as described in the hydrologic report. The data reports shall include the following:

a. Facility Map:

The data reports shall include a facility map showing the location of all facility monitoring points and relevant facility features including basins and measurement devices. The map shall include township, range, and section boundaries, if applicable.

b. Water Level Monitoring Data:

The data reports shall contain static water levels measured at all water level monitoring wells during the reporting period as specified in **permit condition 4.a** and **Table 1**. The water level data shall be displayed in tables and hydrographs containing the following: facility well identifier, ADWR well registration number, cadastral location, measurement date, the depth to water in feet below land surface, and the groundwater elevation in feet above mean sea level. The reports shall note any condition, such as pumping from nearby wells, surface water flows, or any other hydrologic or environmental condition that may reasonably be known and have affected the water level at the time of measurement.

c. Water Quantity Monitoring Data:

The data reports shall contain all water quantity data for the recharge facility as

specified in **permit condition 4.b** and **Table 2**. The data shall be presented in monthly summary tables indicating the month, the facility monitoring point identifier, daily flowmeter totalizer readings, daily delivered volume in gallons, and the total delivered volume for the month and year in gallons and acre-feet.

d. Water Quality Monitoring Data:

The data reports shall contain the source water quality data specified in **permit condition 4.c.ii.** and **Tables 6, 7 and 8** for all Granite and/or Willow Creek surface water delivered to the recharge facility. The water quality data shall be presented in tables containing the following: sampling location, sample date, analyte, laboratory method, the operation prohibition limit for the analyte as established in this permit, and the sample result. Copies of the laboratory and supporting quality control reports may be included in the data reports as an appendix.

e. Operational Monitoring Data:

- i. The data reports shall contain infiltration rate in feet per day as specified in **permit condition 4.d.i.** for the recharge basins listed in **Table 3** that were used during the reporting period. The reports shall describe the method used to calculate the infiltration rates and present the data in a table. If more than one measurement is made during the reporting period, then all data shall be presented.
- ii. The data reports shall contain the daily wet/dry status of each recharge basin listed in **Table 3** and the monthly recharge facility evaporation in acre-feet as specified in **permit condition 4.d.ii.**
- iii. The data reports shall contain a summary of the daylighting monitoring as specified in **permit condition 4.d.iii.** and **Table 5**.

f. Alert Level and Operation Prohibition Limit Exceedances:

- i. The data reports shall summarize activities and information described in **permit condition 5.a** for any exceedance of an alert level or operation prohibition limit for water levels at any monitoring well listed in **Table 1**.
- ii. The data reports shall summarize the failure of any water quantity measuring device that causes the measurement device to be out of compliance with **permit condition 5.b** and corrective actions taken to resolve the failure.
- iii. If either Aquifer Protection Permit (APP) number **P-100353** or **P-101733** is suspended, revoked or terminated during the reporting period, then the quarterly and supplemental data reports shall summarize events that resulted in the suspension, revocation, or termination. The summary shall

include all water quality data collected during the reporting period and shall be presented in a table indicating the sampling date, sampling point identification, analyte(s), the APP limit(s) exceeded, and the sample results.

- iv. The data reports shall summarize the activities and information described in **permit condition 5.c.ii.** for any exceedance of an operation prohibition limit for Granite or Willow Creek source water quality. The summary shall include a listing of the sampling point identification, sample date, analyte(s), laboratory method, applicable operation prohibition limit for the analyte(s) as established in this permit, and the sample result(s).
- v. The data reports shall summarize the activities and information described in **permit condition 5.d.** for any observation of daylighting of water.

4. Monitoring Requirements:

a. Water Level Monitoring Requirements:

- i. The permittee shall measure the depth to water to the nearest one-tenth (0.1) foot at all water level monitoring wells listed in **Table 1**. The frequency of monitoring shall be once every two weeks until the facility has operated pursuant to this permit for a period of twelve (12) consecutive months with less than two (2) instances of the facility having entered alert or prohibition status for water levels. After this twelve (12) consecutive month period, the monitoring frequency shall be automatically reduced to monthly.
- ii. In wells equipped with a pump, water levels shall be allowed to recover for at least twenty-four (24) hours after the pump has been turned off before making depth to water measurements, except that if a 24-hour recovery period is not feasible, a shorter recovery time may be used and shall be noted in the data reports.

b. Water Quantity Monitoring Requirements:

The permittee shall measure the total volume of water delivered to the recharge facility each day with the approved water measuring devices listed in **Table 2**.

c. Water Quality Monitoring Requirements:

- i. Effluent source water and groundwater quality shall be monitored at the recharge facility as specified in Aquifer Protection Permit (APP) numbers **P-100353** and **P-101733**, issued by the Arizona Department of Environmental Quality (ADEQ).
- ii. The Granite and Willow Creek source waters shall be sampled near the inlet to the facility at the monitoring frequencies specified in **Tables 6, 7 and 8**

unless Granite or Willow Creek surface water was not delivered to the recharge facility during the prior 6 months.

d. Operational Monitoring Requirements:

- i. The permittee shall measure the infiltration rate in feet per day at least quarterly for the recharge basins listed in **Table 3** that were used during the reporting period.
- ii. The permittee shall calculate the number of wet and dry days for each recharge basin listed in **Table 3**. Evaporation from the wetted surface of the basins shall be estimated on a monthly basis using the maximum rating curve for evaporation and the applicable adjustment factor specified in *Evaporation from Open Water Surfaces in Arizona*, by Keith R. Cooley (1970).
- iii. The permittee shall monitor for any daylighting of recharge water at the locations and frequencies listed in **Table 5**. Documentation for each inspection shall consist of the date, location, indication of the presence or absence of daylighting and an indication of the presence or absence of surface water in Granite Creek.

5. Alert Levels, Operation Prohibition Limits, and Response Requirements:

a. Water Level Alert Levels and Operation Prohibition Limits:

- i. If the water level at any monitoring well listed in **Table 1** rises to or above the alert level specified for that monitoring point in the table, then a water level alert status shall exist and the permittee shall implement the following:
 - (1) Take actions that are sufficient to prevent water levels from reaching the operation prohibition limit for water levels at all monitoring wells.
 - (2) Notify ADWR in writing within forty-eight (48) hours of becoming aware of the alert status.
 - (3) Increase the frequency of water level measurements at all monitoring wells listed in **Table 1** to daily.
 - (4) Submit weekly reports of daily water level measurement results to ADWR. The water level data shall be displayed in tables and hydrographs containing the following: facility well identifier, ADWR well registration number, cadastral location, measurement date, the depth to water in feet below land surface, and the groundwater elevation in feet above mean sea level. The reports shall note any condition; such as pumping from nearby wells, surface water flows, or any other hydrologic or environmental condition; that may reasonably be known and have affected the water level at the time of measurement.
 - (5) Resume routine water level monitoring when the alert status ends. The

alert status ends when water levels remain below the alert level for fourteen (14) consecutive days.

- (6) Submit a final report to ADWR describing the incident within fourteen (14) days after the alert status ends. The report shall include a listing of all water level measurements made during the alert status, a description of actions taken to lower water levels to below the alert levels, and an assessment of any potential impacts to land and other water users.

ii. If the water level at any monitoring well listed in **Table 1** rises to or above the operation prohibition limit specified for that monitoring well in the table, then a water level prohibition status shall exist and the permittee shall implement the following:

- (1) Immediately cease all recharge activities pursuant to this permit.
- (2) Take actions that are sufficient to prevent water levels from causing unreasonable harm to land and other water users.
- (3) Notify ADWR in writing within forty-eight (48) hours of becoming aware of the prohibition status.
- (4) Increase the frequency of water level measurements at all monitoring wells listed in **Table 1** to daily. If daily water level measurements are already required under an alert status, continue the daily water level measurements.
- (5) Submit weekly reports of daily water level measurement results to ADWR. The water level data shall be displayed in tables and hydrographs containing the following: facility well identifier, ADWR well registration number, cadastral location, measurement date, the depth to water in feet below land surface, and the groundwater elevation in feet above mean sea level. The reports shall note any condition; such as pumping from nearby wells, surface water flows, or any other hydrologic or environmental condition; that may reasonably be known and have affected the water level at the time of measurement.
- (6) The prohibition status ends when water levels decline below the operation prohibition limit for seven (7) consecutive days. Alert level status and associated monitoring frequency and reporting requirements as specified in **permit condition 5.a.i** shall resume at this time and recharge activities pursuant to this permit may recommence.

b. Water Quantity Operational Response Requirements:

- i. The water quantity measurement devices listed in **Table 2** shall continue to quantify flow accurately pursuant to A.A.C. R12-15-905. If any water quantity measurement device fails to perform its designated function for more than seventy-two (72) hours, then the permittee shall notify ADWR in writing within seven (7) calendar days of the failure (A.A.C. R12-15-906). The notice shall state the reason for the failure and include the estimated date the device will be returned to service.

- ii. The permittee shall notify ADWR in writing within seven (7) days after the measuring device is returned to service. The notice shall identify the device that failed and include the date of the malfunction, the amount of time the device failed to properly operate, an estimate of the amount of flow during the period the device was out of service, and a description of the method(s) used to calculate the amount of flow while the device was out of service.
- c. Water Quality Operational Response Requirements:
- i. The Permittee shall notify ADWR in writing of any suspension, revocation, or termination of APP No. **P-100353** or APP No. **P-101733** within ten (10) days of the suspension, revocation, or termination. The notification shall include a written description of the reason for the suspension, revocation, or termination and a copy of any written action by ADEQ suspending or revoking the APP. The Permittee shall not store effluent water from the Sundog Wastewater Treatment Plant pursuant to this permit during any period in which APP **P-100353** is suspended by final administrative decision of ADEQ. The Permittee shall not store effluent water from the Prescott Airport Wastewater Reclamation Facility pursuant to this permit during any period in which APP **P-101733** is suspended by final administrative decision of ADEQ. If either APP is revoked by a final administrative decision of ADEQ or otherwise terminates, then the Permittee shall cease storage of the water that was regulated by the terminated APP pursuant to this USF permit, and ADWR shall modify this USF permit to remove storage of water from the source that is no longer permitted by APP.
 - ii. If a Granite or Willow Creek source water quality result exceeds an operation prohibition limit or AWQS for any analyte listed in **Table 6, 7 or 8**, then the permittee shall notify ADWR and ADEQ in writing within forty-eight (48) hours of becoming aware of the exceedance. The permittee may collect a repeat sample within five (5) days of becoming aware of the exceedance. If the repeat sample confirms the exceedance, or the permittee does not collect a repeat sample within five (5) days of becoming aware of the exceedance, a prohibition status for water quality shall exist and the permittee shall take the following actions:
 - (1) Immediately cease all delivery of Granite or Willow Creek source water to the recharge facility if either of the following occur: (a) an operation prohibition limit is exceeded that causes an immediate risk to human health or safety; or (b) there are ongoing or repeated instances of an operation prohibition limit being exceeded which indicates that the water storage is causing or will cause a degradation of the quality of the water in the aquifer.
 - (2) Notify ADWR and ADEQ within forty-eight (48) hours of becoming

aware of the prohibition status.

- (3) Implement actions that are sufficient to prevent water quality at the facility from causing unreasonable harm to land and other water users.
- (4) Take all actions required by ADWR and ADEQ which may include: a) additional repeat sampling, b) analysis to determine the probable source of contaminant, and c) reduction or curtailment of recharge activities until the analyte of concern drops below the operation prohibition limit.
- (5) Increase the Granite or Willow Creek source water quality monitoring frequency to monthly for the analyte(s) showing an exceedance of the operation prohibition limit, unless otherwise prescribed by ADWR and ADEQ.
- (6) Submit monthly progress reports to ADWR and ADEQ with the results of the water sampling. Any required report shall include the sampling point identifier, the sample date(s), the analyte(s), the applicable permit limit the result is compared to, and the laboratory result(s).
- (7) The prohibition status ends when the concentrations of all analytes listed in **Tables 6, 7 and 8** decrease to below the operation prohibition limit for two (2) consecutive monthly water quality samples. Resume routine water quality monitoring and reporting for the analyte when the prohibition status ends.
- (8) Submit a final report to ADWR and ADEQ describing the incident thirty (30) days after the prohibition status ends. The report shall include a listing of all water quality results, a description of the actions taken to lower concentrations of the analyte(s) to below the operation prohibition limit, and an assessment of impacts to land and water uses.

iii. The Granite and/or Willow Creek source water at the facility shall meet all aquifer water quality standards (AWQS) of the State of Arizona established in A.A.C. R18-11-405 and A.A.C. R18-11-406 for analytes which do not have an operation prohibition limit established by this permit. Recharge of Granite and/or Willow Creek source water pursuant to this permit shall immediately cease if either of the following occur for any analyte without an operation prohibition limit: (a) an AWQS is exceeded in the source water and causes an immediate risk to human health or safety; or (b) there are ongoing or repeated instances of an AWQS being exceeded in the source water which indicates that the water storage is causing or will cause a degradation of the quality of the water in the aquifer.

d. Other Operational Response Requirements:

If daylighting of water is observed as described in **permit condition 4.d.iii.**, the permittee shall increase the frequency of daylighting monitoring to weekly at the locations listed in **Table 5**. If the daylighting of water is observed for four (4) consecutive weeks, or sooner if the volume of daylighting water increases, the City, in coordination with ADWR shall conduct an analysis of the daylighting water. The analysis shall be submitted to ADWR with 60 days. Upon review of the

analysis, ADWR may revise the USF permit as ADWR deems necessary.

6. Operational Provisions:

Any changes to the design, operation, and/or monitoring of the facility, other than those included as a contingency and described in **permit condition 7** and **Table 4**, are prohibited except through a modification of this permit.

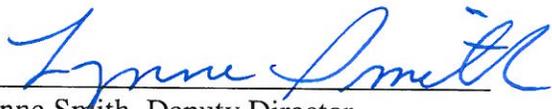
7. Contingencies

- a. The permittee may construct the one additional recharge basin, Cell #9, listed in **Table 4** in order to provide additional recharge capacity to the facility at any time during operation of the facility.
- b. Recharge activities in Cell #9 may not commence until the basin has been inspected and approved by ADWR. The permittee shall notify ADWR at least thirty (30) days prior to commencing recharge in Cell #9 to schedule an inspection. Prior to this inspection, the permittee must provide ADWR with an as-built diagram of the basin and the maximum wetted area of the basin in acres.

8. General Provisions:

- a. In accordance with A.R.S. § 45-814.01(G), the Director may modify the conditions of this permit.
- b. The facility shall continue to meet the requirements of A.R.S. § 45-811.01 during operation of the facility.
- c. No waters other than those waters specified under the permit limitations are authorized for recharge at this facility.
- d. The issuance of this permit does not waive compliance with any federal, state, county, or local government statutes, rules, or permits.
- e. The facility shall be operated only in conjunction with the applicable Water Storage Permit(s) and shall be subject to the conditions set forth within that/those permit(s).
- f. The Director may terminate this permit if the permittee suspends recharge activities for a period of five (5) or more consecutive years.
- g. All ADWR agency notifications and reports, other than annual reports, shall be addressed to the Recharge and Assured/Adequate Water Supply Program, Water Planning Division, Arizona Department of Water Resources, 3550 North Central Avenue, Phoenix, Arizona 85012.

*Witness my hand and seal of office this 5th day of
October, 2015.*



Lynne Smith, Deputy Director
Arizona Department of Water Resources

Table 1
Water Level Monitoring Wells

Monitor Point ID	ADWR Registration Number	Cadastral Location	Well Head Elevation (feet amsl)	Well Depth (feet bls)	Screened Interval (feet bls)	Monitoring Frequency		Reporting Frequency	Alert Water Level (feet bls)	Operation Prohibition Limit (feet bls)
						Minimum of 1 st 12 Months of Operation ¹	Remainder of Permit			
MW-3	55-523563	B(15-1) 19DCA	4913.4	400	300-400	Once every two weeks	Monthly	Annually	45	40
MW-4	55-523561	B(15-1) 30BAD	4926.4	400	300-400	Once every two weeks	Monthly	Annually	45	40
MW-5	55-523562	B(15-1) 19DCB	4927.7	400	300-400	Once every two weeks	Monthly	Annually	45	40
MW-7	55-523565	B(15-1) 19DCD	4906.3	400	300-400	Once every two weeks	Monthly	Annually	45	40

¹ Upon commencing recharge pursuant to this permit, the monitoring frequency shall be once every two weeks until the facility has operated for a period of twelve (12) consecutive months with less than two (2) instances of the facility entering alert status for water levels. After this twelve-month period, the monitoring frequency shall be automatically reduced to monthly.

Table 2
Water Quantity Monitoring

Monitoring Point ID	Measuring Device	Parameter	Cadastral Location	Monitoring Frequency	Reporting Frequency
FM-A	Totalizing Flowmeter	Effluent Inflow from Airport Wastewater Treatment Plant	B(15-1) 30ABA	Daily	Annually
FM-B	Totalizing Flowmeter	Effluent Inflow from Sundog Wastewater Treatment Plant	B(15-1) 30BAC	Daily	Annually
FM-C	Totalizing Flowmeter	Surface Water Inflow	B(15-1) 30BAC	Daily	Annually

**Table 3
Recharge Basin Description**

Basin Identifier	Cadastral Location¹	Maximum Wetted Area (acres)
Cell #1	B(15-01) 30BAB	7.42
Cell #2	B(15-01) 30BAC	6.99
Cell #3	B(15-01) 30BAD	6.09
Cell #4	B(15-01) 30BAA	11.90
Cell #5	B(15-01) 30DCC	1.43
Cell #6	B(15-01) 30DCB	10.75
Cell #7	B(15-01) 30DCA	7.75
Cell #8	B(15-01) 30ABC	4.25
Total Acreage		56.58

¹ See Figure 7 (attachment) in “Email with Attachments from Jeff Low to Tracey Carpenter, ‘FW: Prescott USF – Questions to Resolve’” dated February 23, 2015.

**Table 4
Contingency Recharge Basin Description**

Basin Identifier	Cadastral Location¹	Maximum Wetted Area (acres)²
Cell #9	B(15-01) 30ABD	Proposed 6.77

¹ See Figure 7 (attachment) in “Email with Attachments from Jeff Low to Tracey Carpenter, ‘FW: Prescott USF – Questions to Resolve’” dated February 23, 2015.

² As described in permit condition 7.b., the permittee must provide ADWR with an as-built diagram of the basin and the maximum wetted area of the basin in acres prior to the pre-recharge inspection of the basin.

**Table 5
Daylighting Monitoring**

Measuring Device	Parameter	Cadastral Location¹	Monitoring Frequency	Reporting Frequency
Visual Inspection	Daylighting of Recharged Water in Granite Creek	B(15-1) 19DDB	Monthly	Annually
Visual Inspection	Daylighting of Recharged Water in Granite Creek	B(15-1) 19DDC	Monthly	Annually

¹ The permittee shall monitor for daylighting of recharge water in Granite Creek in the area of the facility along the eastern edges Cell 7 and Cell 9 as described in permit condition 4.d.iii..

Table 6
Surface Water Source Water Quality Monitoring
Inorganics and Microbiological

Analyte	Method ¹	OPL (mg/L)	Monitoring Frequency	Reporting Frequency
Field				
pH	Field	NA	Every 6 months	Annually
Specific Conductance	Field	NA	Every 6 months	Annually
Temperature	Field	NA	Every 6 months	Annually
Inorganic Analytes				
Alkalinity	2320B	NA	Every 6 months	Annually
Ammonia	300	NA	Every 6 months	Annually
Boron	200.7	NA	Every 6 months	Annually
Calcium	200.9	NA	Every 6 months	Annually
Chloride	300	NA	Every 6 months	Annually
Fluoride	300	4	Every 6 months	Annually
Nitrate (as N)	300	10	Every 6 months	Annually
Nitrite (as N)	300	1	Every 6 months	Annually
Nitrate and Nitrite (as N)	353.2	10	Every 6 months	Annually
Potassium	258.1	NA	Every 6 months	Annually
Sodium	273.1	NA	Every 6 months	Annually
Sulfate	300	NA	Every 6 months	Annually
Total Dissolved Solids	2540C	NA	Every 6 months	Annually
Trace Metals				
Antimony	200.9	0.006	Every 6 months	Annually
Arsenic	200.9	0.05	Every 6 months	Annually
Barium	200.7	2	Every 6 months	Annually
Beryllium	200.7	0.004	Every 6 months	Annually
Cadmium	200.7	0.005	Every 6 months	Annually
Chromium	200.7	0.1	Every 6 months	Annually
Copper	200.7	NA	Every 6 months	Annually
Iron	200.7	NA	Every 6 months	Annually
Lead	200.9	0.05	Every 6 months	Annually
Magnesium	200.7	NA	Every 6 months	Annually
Manganese	200.7	NA	Every 6 months	Annually
Mercury	245.1	0.002	Every 6 months	Annually
Nickel	200.9	0.1	Every 6 months	Annually
Selenium	200.9	0.05	Every 6 months	Annually
Thallium	200.9	0.002	Every 6 months	Annually
Zinc	200.7	NA	Every 6 months	Annually

¹ Permittee may use any EPA- or ADHS-approved analysis method other than those listed for the purpose of determining compliance with an aquifer water quality standard (AWQS) or an Operation Prohibition Limit (OPL) specified by this permit as long as the method provides a detection limit which is lower than the AWQS or OPL specified in this Table for the analyte in question, and otherwise accurately quantifies the concentration of the analyte listed. ADWR reserves the right to determine adequacy of laboratory results based upon the achieved detection limit.

Table 7
Surface Water Source Water Quality Monitoring
Volatile Organics

Analytes	Method¹	AWQS (mg/L)	Monitoring Frequency	Reporting Frequency
Benzene	524.2	0.005	Annually	Annually
Benzo(a)pyrene	524.2	0.0002	Annually	Annually
Carbon Tetrachloride	524.2	0.005	Annually	Annually
1,2-Dibromo-3-chloropropane	524.2	0.0002	Annually	Annually
<i>o</i> -Dichlorobenzene	524.2	0.6	Annually	Annually
<i>p</i> -Dichlorobenzene	524.2	0.075	Annually	Annually
1,2-Dichloroethane	524.2	0.005	Annually	Annually
1,1-Dichloroethylene	524.2	0.007	Annually	Annually
<i>cis</i> -1,2-Dichloroethylene	524.2	0.07	Annually	Annually
<i>trans</i> -1,2-Dichloroethylene	524.2	0.1	Annually	Annually
Dichloromethane	524.2	0.005	Annually	Annually
1,2-Dichloropropane	524.2	0.005	Annually	Annually
Ethylbenzene	524.2	0.7	Annually	Annually
Ethylene Dibromide	524.2	0.00005	Annually	Annually
Hexachlorobenzene	524.2	0.001	Annually	Annually
Hexachlorocyclopentadiene	524.2	0.05	Annually	Annually
Monochlorobenzene	524.2	0.1	Annually	Annually
Polychlorinated biphenyls	524.2	0.0005	Annually	Annually
Styrene	524.2	0.1	Annually	Annually
Tetrachloroethylene	524.2	0.005	Annually	Annually
Toluene	524.2	1	Annually	Annually
1,2,4-Trichlorobenzene	524.2	0.07	Annually	Annually
1,1,1-Trichloroethane	524.2	0.20	Annually	Annually
1,1,2-Trichloroethane	524.2	0.005	Annually	Annually
Trichloroethylene	524.2	0.005	Annually	Annually
Trihalomethanes (Total)	524.2	0.100	Annually	Annually
Vinyl Chloride	524.2	0.002	Annually	Annually
Xylenes (Total)	524.2	10	Annually	Annually

¹ Permittee may use any EPA- or ADHS-approved analysis method other than those listed for the purpose of determining whether any of the organic analytes listed in this table are present in the source water as long as the method provides a detection limit which is lower than the AWQS specified in this Table for the analyte in question, and otherwise accurately quantifies the concentration of the analyte listed. ADWR reserves the right to determine adequacy of laboratory results based upon the achieved detection limit.

Table 8
Surface Water Source Water Quality Monitoring
Herbicides and Pesticides

Analytes	Method ¹	AWQS (mg/L)	Monitoring Frequency	Reporting Frequency
Alachlor	508.1	0.002	Annually	Annually
Atrazine	508.1	0.003	Annually	Annually
Carbofuran	531.1	0.04	Annually	Annually
Chlordane	508.1	0.002	Annually	Annually
Dalapon	515.1	0.2	Annually	Annually
2,4-Dichlorophenoxyacetic Acid	515.1	0.07	Annually	Annually
Dinoseb	515.1	0.007	Annually	Annually
Diquat	549.2	0.02	Annually	Annually
Endothall	548.1	0.1	Annually	Annually
Endrin	508.1	0.002	Annually	Annually
Glyphosate	547	0.7	Annually	Annually
Heptachlor	508.1	0.0004	Annually	Annually
Heptachlor Epoxide	508.1	0.0002	Annually	Annually
Lindane	508.1	0.0002	Annually	Annually
Methoxychlor	508.1	0.04	Annually	Annually
Oxamyl	531.1	0.2	Annually	Annually
Pentachlorophenol	515.1	0.001	Annually	Annually
Picloram	515.1	0.5	Annually	Annually
Simazine	508.1	0.004	Annually	Annually
Toxaphene	508.1	0.003	Annually	Annually
2,4,5-Trichlorophenoxypropionic Acid	515.1	0.05	Annually	Annually

¹ Permittee may use any EPA- or ADHS-approved analysis method other than those listed for the purpose of determining whether any of the organic analytes listed in this table are present in the source water as long as the method provides a detection limit which is lower than the AWQS specified in this Table for the analyte in question, and otherwise accurately quantifies the concentration of the analyte listed. ADWR reserves the right to determine adequacy of laboratory results based upon the achieved detection limit.