

Governor

Arizona Department of Environmental Quality



Karen Peters Director

Aquifer Protection Permit Field Inspection Report

	reia inspection report
human health and the environment. This list does not include every permit con	e a consistent understanding of the major compliance expectations under this permit. o address the permit requirements that ADEQ feels are the most important to protect adition and permit holders should ensure they understand the full requirements of their requirement and is not binding on the permit holder or ADEQ staff.
Facility Name: Pine Creek Canyon Domestic WWTS Place ID: 278	Inspection No: 428816 Inspection Date/Time: August 16, 2023 10:00AM
Inventory/Permit #: 102949 Current LTF#: 28565	Inspector(s): Xan McMacken
Facility Address: AZ260 & Anasazi Way City, State, Zip: Pine, AZ 85544 County: Gila	Inspector Phone: 602-921-0835 Inspector Email: McMacken.Xan@azdeq.gov
Permittee/Responsible Party: Pine Creek Canyon Domestic Water Improvement District Contact: Pat Carpenter Mailing Address: P.O. Box 190 City, State, Zip: Pine, AZ 85544 Phone: 928-606-0498 Email: pataqualitywater@gmail.com	WWTP Population Served: 268 (107 metered homes x2.5) Treatment Plant Grade: 2 Collection System Grade: 1
Operator/ID: Jim Bossert / OP025312 Phone: 928-606-7512 Email: caddpharm@yahoo.com Op. Cert. Grade(s): 2W, 3C Op. Cert. Expiration: 11/30/2024	Compliance Summary: Certified Operator: ☑ Yes ☐ No ☐ N/A Physical Facilities: ☒ Yes ☐ No ☐ N/A Monitoring and Reporting: ☒ Yes ☐ No ☐ N/A
Results of Inspection: No alleged deficiencies were noted during the course inspection. □ Alleged deficiencies were noted during the course of the course	of the inspection. No ADEQ action will result from this the inspection and all deficiencies were corrected by the close
of business on the final day of inspection. No ADEQ ac Alleged deficiencies were noted during the course of t inspection may be forthcoming. If applicable, ADEQ documents its initial determin ☐ Committed intentionally. ☐ Not correctable within a reasonable pe	ction will result from this inspection. the inspection. Additional correspondence regarding this
- Evidence of a pattern of noncompliant	e as demonstrated by aneged deficiencies previously

Inspection Report Issued: Via hardcopy at facility Facility Initial: ADEQ Initial: XM

General Notes: Arrived on-site on August 16, 2023 at 10:00AM and met with operators Pat Carpenter and Jim Bossert. The NOIR was read and signed by Mr. Carpenter. The inspection began with a walkthrough of the facility starting at the equalization basin and ending at the percolation pond. Post-walkthrough, on-site paperwork was reviewed in the facility office. Following paperwork review, the inspection report was finalized and reviewed with Mr. Bossert and Mr. Carpenter including summary of the inspection, recommendations, and next steps. The inspection concluded at 11:00AM.

identified in an inspection report or other written notice at the same premises.

A significant risk to any person, the public health, safety or welfare or the environment.

PHOTOGRAPHS TAKEN DURING INSPECTIONS ARE AVAILABLE IN THE PHOTO LOG

Requirements: C: Compliance, NC: Non-Compliance, P: Pending, N/A: Not Applicable

Documentation:	Requirement met?	Comments	
Non-submittals or exceedances within the last six quarters of SMRF reporting.	□ C ⊠ NC □ P □ N/A	At the time of the File Review conducted on 8/14/23 – the following deficiencies were found for the last 6 quarters: DL Exceedance – Total Nitrate as N – 11.6 – 5/26/22 DL Exceedance – Total Nitrogen as N – 12.8 – 5/26/22 Methanol ran out for above exceedances. Mr. Bossert showed inspector storage of extra methanol. Late Submittal – SMRF – Due 7/30, Submitted 8/1/23 Informed Mr. Carpenter that ADEQ is regulating late submittals more stringently.	
The required notifications provided for violation of any permit condition, discharge limit, or exceedance of an alert level. (list notifications in Comments)	⊠ C □ NC □ P □ N/A	5 and 30-day contingency reports submitted.	
Increased the frequency of monitoring for parameters requiring accelerated monitoring. (list parameters in Comments)	□ C □ NC □ P ⊠ N/A	N/A	
SMRFs and monitoring requirements were discussed with the facility.	⊠ C □ NC □ P □ N/A	Person in charge of SMRF reporting: Spencer Ropte. Inner Basin Environmental is contracted for SMRF reporting. Mr. Carpenter stated that he will let Spencer know to submit reports before the due date.	
Facility has any outstanding or overdue compliance schedule items. (Section 3.0 in the permit)	⊠ C □ NC □ P □ N/A	A copy of the emergency response plan shall be submitted to ADEQ Aquifer Protection Permit Compliance, within 30 days from the effective date of this permit. The plan shall include the information as referenced in PART II.C.2.c. Mr. Carpenter will send inspector a copy of the ERP, which was dated January, 2023, for records purposes.	
A copy of the current signed permit on-site.	⊠ C □ NC □ P □ N/A	A physical copy of the current signed permit was present onsite.	
A copy of the operations and naintenance manual on-site.	⊠ C □ NC □ P □ N/A	A physical copy of the O&M manual was present onsite.	
A copy of the approved contingency/emergency response plan on-site.	⊠ C □ NC □ P □ N/A	A physical copy of the ERP, which was dated 1/2023, and had current emergency contacts, was present onsite.	
Unauthorized discharge of suspected nazardous, toxic, or non-hazardous materials. If so list corrective actions aken. (Section 2.6.5)	⊠ C □ NC □ P □ N/A	None known – no spills.	
Facility Description and Operational Monitoring Requirements	Requirement met?	Comments	
Log book of the inspections and neasurements required by this permit updated and current.	⊠ C □ NC □ P □ N/A	Inspector recommended adding a weekly note for berm integrity – no visible erosion in the log book. All other items were present in the log book.	
acility treatment processes match what is in the current permit.	⊠ C □ NC □ P □ N/A	 ⊠ Equalization basin ⊠ Nitrification and Denitrification reactors ⊆ UV disinfection ⊠ Percolation pond ⊆ Evaporation pond ⊆ Sludge holding tank 40,460 GPD authorized. 	

Facility being maintained according to the Operations and Maintenance Manual.	⊠ C □ NC □ P □ N/A	Mr. Carpenter stated that if he operated the facility according to the O&M plan (Santec) it wouldn't run properly, especially since their flows max out at around 8,000 GPD. The facility is being maintained according to the O&M plan, though.
On-site flow meters properly maintained, calibrated or verified according to the O&M.	⊠ C □ NC □ P □ N/A	Niagara magnetic flowmeter, replaced recently due to a defect covered through the warranty.
Treatment plant components are in g	ood working order (Individu	nally listed below from Section 2.1 in permit).
Equalization basin	⊠ C □ NC □ P □ N/A	Flow equalization basin appeared to be in good working condition.
Nitrification and Denitrification reactors, secondary clarifier	⊠ C □ NC □ P □ N/A	Two reactors were being used that had aeration and anoxic zones for nitrification. Smell was earthy, color was brown. No historical overtopping was observed. Denitrification tank and clarifier in a split tank.
UV disinfection	⊠ C □ NC □ P □ N/A	UV bulb replaced in August, 2021. Mr. Carpenter stated that the bulbs are good for about three years.
Percolation pond	⊠ C □ NC □ P □ N/A	Percolation pond did not have any foul odor. Level was normal with plenty of freeboard. Berms were intact.
Evaporation pond	⊠ C □ NC □ P □ N/A	Evaporation pond not in use. Minimal growth within but some small trees on the berm.
Sludge holding tank	⊠ C □ NC □ P □ N/A	Sludge holding tank was being agitated with blowers. Smell was earthy. Color dark brown. Allowed to settle, water decanted back to reactor 1.
Pump Integrity – Good working condition – Daily	⊠ C □ NC □ P □ N/A	All pumps that were in operation were running as expected, with no excess noise or vibration.
Treatment Plant Components – Good working condition – Daily	⊠ C □ NC □ P □ N/A	All treatment plant components were operating as expected, as required by BADCT.
Berm Integrity – No visible erosion – Weekly	⊠ C □ NC □ P □ N/A	There was no visible erosion of the berms. Inspector recommends clearing small trees that have grown in the evaporation pond and berm.
Freeboard in Percolation Pond: Minimum 3 ft. – Daily	⊠ C □ NC □ P □ N/A	Much greater than three feet of freeboard in percolation pond.
Freeboard in Evaporation Pond: Minimum 3 ft. – Daily	⊠ C □ NC □ P □ N/A	No fluid in evaporation pond. Operators stated that the evaporation pond is available for use but has never been used.
Compliance Monitoring	Requirement met?	Comments
POC #1 – Southeast corner of property boundary Loc: 34° 23' 32" N 111° 27' 28" W • Location verified?		Groundwater monitoring is not required. Conceptual monitoring well.
 Does the well appear to be in working order? 	□ C □ NC □ P ⊠ N/A □ C □ NC □ P ⊠ N/A	
working order? Field Methods – Facility is using applicable on-site calibrations and quality assurance for BOD, T, pH, and turbidity?		Testing conducted by Inner Basin Environmental out of Flagstaff, AZ. No field methods used for sampling or testing for APP permit requirements.
working order? Field Methods – Facility is using applicable on-site calibrations and quality assurance for BOD, T, pH, and	□ C □ NC □ P ⊠ N/A	Flagstaff, AZ.
working order? Field Methods – Facility is using applicable on-site calibrations and quality assurance for BOD, T, pH, and turbidity? Facility has a written QA manual for	□ C □ NC □ P ⊠ N/A □ C □ NC □ P ⊠ N/A	Flagstaff, AZ. No field methods used for sampling or testing for APP
working order? Field Methods – Facility is using applicable on-site calibrations and quality assurance for BOD, T, pH, and turbidity? Facility has a written QA manual for all analysis done on-site. ADHS approved methods used for all	□ C □ NC □ P ⋈ N/A □ C □ NC □ P ⋈ N/A □ C □ NC □ P ⋈ N/A	Flagstaff, AZ. No field methods used for sampling or testing for APP

Standard Operating Procedures (SOPs) for each method	□ C □ NC □ P ⊠ N/A	
On-site calibration and baseline reagents within expiration dates.	□ C □ NC □ P ⋈ N/A	
Facility has bench log sheets.	□ C □ NC □ P ⊠ N/A	

ALLEGED DEFICIENCIES, RECOMMENDATIONS AND COMMENTS:				
Alleged Deficiencies:				
During the August 16, 2023 inspection, the inspector did not find a	any potential deficiencies.			
Recommendations:				
The ADEQ inspector recommends that small trees be removed to preserv	ve berm integrity for the evaporation pond.			
Comments:				
None				