



State of Oregon  
Department of  
Environmental  
Quality

## Water Pollution Control Facilities Permit Renewal Fact Sheet City of Jordan Valley

<b>Permittee</b>	City of Jordan Valley PO Box 187 Jordan Valley, Oregon 97910-0187
<b>Existing Permit Information</b>	File Number: 44040 Permit Number: 101379 Expiration Date: 11/30/2034
<b>Permittee Contact</b>	Con Warn Public Works Manager 541-586-2460 PO Box 187 Jordan Valley, Oregon 97910-0187
<b>Facility Name &amp; Location</b>	Facility Name: City of Jordan Valley Address: Approximately one mile northwest of Jordan Valley, Oregon 97910 Lat: 42.8812, Long: -117.3105 County: Malheur
<b>LLID:</b>	LLID: 1176415428623 RM 46
<b>Receiving Stream/Basin:</b>	Nearest stream: Jordan Creek Sub Basin Name: Jordan WRD Basin Name: Owyhee
<b>Proposed Action:</b>	Permit Renewal Application Number: 953036 Date Application Received: August 13, 2018
<b>Source Category:</b>	Domestic
<b>Sources Covered:</b>	Domestic Wastewater and Recycled Water
<b>Permit Type:</b>	WPCF-DOM-E
<b>Permit Writer</b>	Anna Morgan-Hayes 541-246-4562 Date Prepared: 11-4-2024

# WPCF Permit Renewal Fact Sheet City of Jordan Valley

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# WPCF Permit Renewal Fact Sheet

## City of Jordan Valley

### 1. Introduction

As required by Oregon Administrative Rule 340-045-0037, this fact sheet describes the basis and methodology used in developing the permit. The permit is divided into several sections:

- Schedule A – Waste discharge limitations
- Schedule B – Minimum monitoring and report requirements
- Schedule C – Compliance conditions and schedules
- Schedule D – Special conditions
- Schedule F – General conditions

A summary of the major changes to the permit are listed below:

Changes to monitoring frequencies include: Based on available data, recycled water monitoring for BOD<sub>5</sub> (mg/L) and TSS (mg/L) has been removed from the permit because it is not required by OAR 340-055 recycled water use rules, nor is it necessary for a system of this size and complexity. BOD<sub>5</sub> and TSS levels from past monitoring do not indicate concerns with these parameters for continued land application. Additionally influent flow monitoring frequencies for BOD<sub>5</sub> and TSS have been modified from quarterly monitoring to annual, per DEQ's monitoring matrix guidance for facilities of this size. Annual flow meter calibration verifications are no longer required to be submitted annually to DEQ. These records must be maintained at the facility and available upon request.

### 2. Facility Description

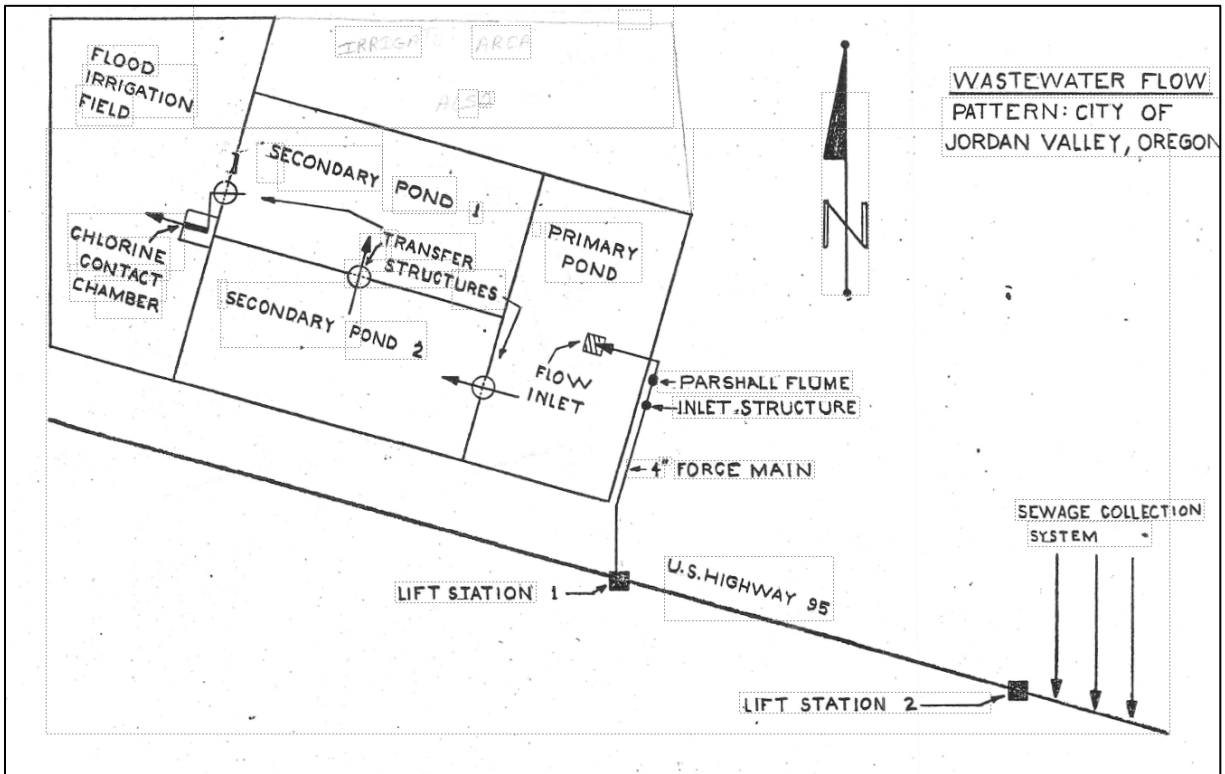
#### 2.1 Wastewater Facility

The wastewater collection system and treatment facility were constructed in 1975. The collection system utilizes three lift stations in addition to gravity flow. The average dry weather design flow for the treatment facility is 0.047 MGD. During the period January 2019 to July 2024, the average monthly flow to the plant was 0.027 MGD and the peak maximum daily flow was 0.142 MGD. The facility was designed for 450 people. Census data from 2022, reports a population of 137.

The treatment facility includes a lift station (two pumps) and a Parshall flume at the headworks, a 2.5-acre clay-lined primary cell and two 2.5-acre clay-lined secondary cells. The facility was constructed with a chlorine gas disinfection system and a 4.9-acre flood irrigation site. However, the chlorine system has never been used. The permittee's Recycled Water Use Plan (RWUP) was last reviewed and approved in 2005. The RWUP authorized the permittee to flood irrigate 4.9 acres of city-owned property adjacent to the lagoons, however, land application of recycled water was last distributed in 2012.



**Figure 2-2: City of Jordan Valley Wastewater Treatment Facility Flow Schematic**



**Table 2-1: List of Outfalls**

Outfall Number	Type of Waste	Lat/Long	Design Flow <sup>1</sup> (mgd)	Existing Flow <sup>2</sup> (mgd)
001	Wastewater Lagoons	42.8812, -117.3105	0.047	0.025
002	Recycled Water Land Application	As specified in the Recycled Water Use Plan		
1. Design Flow = average dry weather design flow provided by City of Jordan Valley Facility Plan 2. Existing Flow = existing average monthly dry weather flow provided by monthly discharge monitoring reports (City of Jordan Valley, 2019-2024).				

## 2.2 Compliance History

The compliance history was evaluated in conjunction with drafting the renewal permit. Discharge monitoring and annual reports were reviewed for the following period: October 2020 to July 2024. Based on this review the City was found to be in violation of the permit and was cited via the below enforcement document:

2024-WLOTC-9569: Failure to complete annual flow meter calibrations for 2019 – 2023.

## **2.3 Biosolids**

The term wastewater solids includes sewage sludge and biosolids. Sewage sludge refers to solids from primary, secondary, or advanced treatment of domestic wastewater that have not been treated or determined to be suitable for land application as fertilizer or soil amendment. The term biosolids refers to domestic wastewater treatment facility solids that have undergone adequate treatment and are suitable for application to the land as a fertilizer or soil amendment. Land application of biosolids must be performed in accordance with a DEQ-approved biosolids management plan (BSMP) and site authorization letter. Alternatively, a BSMP and site authorization are not required for disposal of wastewater solids in a landfill.

The permittee last performed a sludge survey in 2018 indicating that biosolids would not require to be removed in the ten-year term of this permit renewal. Based on this information, an outfall for biosolids removal has not been included in the permit.

## **2.4 Groundwater**

Potential routes for contamination of groundwater from this facility include lagoon leakage and land application of recycled water. The permit incorporates additional monitoring for Recycled Water application to ensure application of nitrogen at agronomic rates, therefore limiting potential groundwater contamination. Additionally, the lagoons are lined with clay to prevent leakage and the permit requires a lagoon leak test be conducted during the permit term.

## **2.5 Recycled Water**

Land application of recycled water is permitted under this permit with a DEQ-approved recycled water use plan. If the permit holder chooses to modify its recycled water program, a comprehensive recycled water use plan meeting the requirements in OAR 340-055 must be submitted to DEQ for review and approval; appropriate actions must also be made to OHA and WRD.

## **2.6 Wastewater Classification**

OAR 340-049 requires all permitted municipal wastewater collection and treatment facilities receive a classification based on the size and complexity of the systems. DEQ evaluated the classifications for the treatment and collection system, which are publicly available at: <https://www.deq.state.or.us/wq/opcert/Docs/OpcertReport.pdf>.

## **3. Schedule A: Effluent Limit Development**

No discharge to state waters is permitted. All wastewater is treated in facultative lagoons and must be irrigated only on DEQ-approved land application sites in accordance with a recycled water use plan. Prior to land application, recycled water must be treated by nondisinfected standards for beneficial use as defined in OAR 340-055.

All activities concerning recycled water must conform to a recycled water use plan approved by DEQ. Specific crops, application rates and buffers are included in the required recycled water use plan. All recycled water must be distributed on land, for dissipation by evapotranspiration and controlled seepage by following sound irrigation practices so as to prevent:

- i. Prolonged ponding of treated recycled water on the ground surface;
- ii. Surface runoff or subsurface drainage through drainage tile;
- iii. The creation of odors, fly and mosquito breeding, or other nuisance conditions;
- iv. The overloading of land with nutrients, organics, or other pollutant parameters; and
- v. Until otherwise approved by DEQ via a revised recycled water use plan, treated effluent must only be reused as a nondisinfected for beneficial uses.
- vi. Treated effluent must only be applied at site and crop specific agronomic loading rates.

### **3.1 Groundwater**

DEQ may evaluate the need for a full assessment of the facility's impact on groundwater quality if there is any evidence of an adverse impact resulting from the facilities operation or the facility fails to operate in accordance with permit conditions. Schedule A of the proposed permit includes a condition prohibiting adverse impacts to groundwater.

### **3.2 Recycled Water**

Schedule A of the permit requires the permittee to apply recycled water according to a recycled water use plan. Schedule A also restricts the application of recycled water to prevent the following:

- Irrigating above agronomic rates,
- Adverse impact to groundwater,
- Offsite surface runoff or subsurface drainage through drainage tile,
- Creation of odors, fly and mosquito breeding, or other nuisance conditions.

## **4. Schedule B: Monitoring and Reporting Requirements**

Schedule B of the permit describes the minimum monitoring and reporting necessary to demonstrate compliance with the proposed effluent limits. Detailed monitoring frequency and reporting requirements are in Schedule B of the proposed permit. The required monitoring, reporting and frequency for many of the parameters are based on DEQ's monitoring and reporting matrix guidelines, permit writer judgment, reporting requirements for similar facilities of this type and size and to ensure the needed data is available for the next permit renewal.

The monitoring data provide DEQ with information to evaluate the performance of the wastewater treatment facility for influent, the lagoons, and effluent. The authority to require periodic reporting by permittees is found at ORS 468.065(5).

Monitoring requirements for influent pH, BOD<sub>5</sub> (biochemical oxygen demand) and total suspended solids (TSS) sampling are included in the permit for the City of Jordan Valley to track influent loading to the system and as monitoring for performance of the treatment system. Lagoon freeboard and perimeter monitoring is required so that the City can evaluate system performance and adjust as needed.

Effluent parameters are required when irrigating with recycled water at an approved land application site. Requirements for flow, irrigation volume, and nutrient monitoring are included in Table B4. Nutrients must be evaluated and reported on by the permittee to ensure overloading of the field above agronomic uptake rate for the planted crops does not occur. The permittee must track and report any supplemental fertilizer and additional nutrient loading applied to the site.

The permit requires the permittee to evaluate and update the Recycled Water Use Plan and submit to DEQ for approval by the date provided in Table B1 of the permit. The permittee is not permitted to accept hauled waste until a Hauled Waste Acceptance Plan is submitted to and approved by DEQ.

## **5. Schedule C: Compliance Schedule**

The permittee is expected to meet all effluent limits and therefore a compliance schedule is not needed.

## **6. Schedule D: Special Conditions**

The proposed permit contains the following special conditions. The conditions include the following:

### **6.1 Inflow and Infiltration Reporting**

A requirement to submit an annual report detailing inflow and infiltration and to address potential for groundwater and stormwater from entering the collection system.

### **6.2 Emergency Response and Public Notification Plan**

A requirement to develop and submit an emergency and spill response plan or ensure the current one is current per General Condition B.6 in Schedule F.

### **6.3 Recycled Water Use Plan**

A condition requiring the permit holder to update and maintain a recycled water use plan that meet the requirements in OAR 340-055-0025 by the date provided. The plan must also include

location-specific information describing where and how recycled water is managed to protect public health and the environment.

## **6.4 Exempt Wastewater Reuse at the Treatment System**

A condition that exempts the permit holder from the recycled water requirements in OAR 340-055, when recycled water is used for landscape irrigation at the treatment facility or for in-plant processes, such as in plant maintenance activities.

## **6.5 Wastewater Solids and Biosolids Annual Report**

This condition requires the permittee to submit a Wastewater Solids and Biosolids Annual Report each year documenting removal of wastewater solids from the facility during the previous calendar year.

## **6.6 Wastewater Solids Transfers**

A condition that allows the facility to transfer treated or untreated wastewater solids to other in-state or out-of-state facilities that are permitted to accept the wastewater solids.

## **6.7 Hauled Waste Control Plan**

A condition that allows the acceptance of hauled waste after a hauled waste plan is submitted and approved by DEQ. The hauled waste plan ensures waste is not accepted that could negatively impact the treatment capabilities of the facility.

## **6.8 Hauled Waste Annual Report**

A condition requiring submittal of an annual hauled waste report that summarizes hauled waste accepted at the facility during the previous year.

## **6.9 Lagoon Solids**

A condition requiring the permittee to submit a sludge depth survey report to ensure lagoon solids are maintained within design standards and accumulations do not negatively affect treatment capabilities.

## **6.10 Lagoon Leak Test**

By no later than the date provided in Schedule B, Table B1 of this permit, the permittee must conduct and submit the results of a lagoon leak test to DEQ for each cell of the wastewater lagoon system. Guidelines for estimating lagoon leakage are available from DEQ. Use of the guidelines is required to provide sufficient information on estimation of lagoon leakage.

## **6.11 Operator Certification**

The permit holder is required to have a certified operator consistent with the size and type of treatment plant covered by the permit per OAR 340-049-0005. This special condition describes the requirements relating to operator certification.

## **6.12 Industrial User Survey**

This condition requires the permittee to conduct an industrial user survey. The purpose of the survey is to identify whether there are any categorical industrial users discharging to the POTW and ensure regulatory oversight of these discharges.

## **7. Schedule F: WPCF General Conditions**

This schedule includes conditions and definitions that are applicable to all WPCF permits in Oregon of this type.

## **8. Next Steps**

The City of Jordan Valley has submitted a complete WPCF permit renewal application. DEQ proceeded with a Category II permitting action for public notification as per OAR 340-045-0027 and no comments were received.