



COACHELLA VALLEY WATER DISTRICT
NONPOTABLE WATER PLAN CHECKLIST
RECYCLED WATER ORDINANCE NO. 1440

(This submittal checklist does not include all the requirements of the Ordinance.)
Refer to Ordinance 1440 for all requirements and submittals.

Project Name _____

Project Location _____

Lot No. _____ Tract No. _____ APN _____

Initial Plan Check Date: _____

Revision Plan Check Date: _____

CVWD Approved Drawing Nos. _____

Each Nonpotable Water (Recycled Water) Documentation Package shall include the following elements:

GENERAL:

1. Submit as PDF.
2. Indicate if this is an initial plan check or a revision plan check.
3. If this is a revision plan check, highlight the change being proposed.
4. Drawings are 36-inches by 24-inches.
5. Show tract number or parcel number on cover sheet.
6. Show an Index map showing the overall project including all $\frac{1}{4}$ & $\frac{1}{16}$ section lines and section numbers.
7. Show title block on each sheet with the name, address, lot number, and tract number of the project, the name and address of the professional design company with its signed professional stamp, if applicable.
8. Plan scale, graphic scale, and north arrow shown.
9. Location/vicinity map on top or cover sheet with north arrow (include north arrow).
10. Specify property lines and street names.
11. Show all irrigation, drainage, and water pipelines within proposed landscape area.
12. Show the township, range and section number in lower title block.
13. Reserve two 6-inch by 3-inch spaces for a) the local agency signature block and b) a District signature block in lower right corner of the cover sheet and on all of the landscape, irrigation design/detail/specification sheets. The link to the District's Nonpotable signature block can be found on the Plan Check Status page at cvwd.org.

DOMESTIC WATER SYSTEM:

14. Show meter and backflow location with a note stating, "Installed by CVWD."
15. Domestic Water Features
 - a. Pool
 - b. Spa
 - c. Fountain
 - d. other
16. Point of connection for domestic water feature
17. Point of connection for domestic water.
18. Separation distance of domestic water feature from recycled water irrigation spray/drip. There is to be a minimum of 36" between the domestic water feature and the recycled water irrigation spray or drip.
19. Open Trench visual inspection is required for the domestic water system and recycled water system.
20. Pipe Material is to be indicated for domestic water system and recycled water system.
21. Pipe size.
22. Valve size, station number, GPM on plan.
23. Control valves, manufacturer's model number, size.
24. Master valves shall be metal, located as close to the point of connection as possible, and be metal pipe between the master valve and the water meter.

RECYCLED WATER SYSTEM:

25. Recycled Water pipeline location
26. Abide by the Development Design Manual for proper vertical and horizontal separation distance from domestic water lines and when to sleeve the recycled water line.
27. Ensure that there is not a potential for a cross-connection to occur.
28. Area to be irrigated with recycled water.
29. Hose bibs are not allowed on the recycled water system.
30. The design of the irrigation system shall not cause the occurrence of ponding anywhere in the recycled water use area, and overspray or mist around dwellings, outdoor eating areas and/or food handling facilities is to be eliminated. Recycled water irrigation runoff shall be confined to the recycled water use area.
31. Pipe Material is to be indicated for domestic water system and recycled water system.
32. Pipe size.
33. Purple Pipe for recycled water is required as well as all appurtenances above ground shall be purple.
34. Quick coupler installed downstream of recycled water meter.
35. Point of connection for recycled water.

36. Valve size, station number, GPM on plan.
37. Control valves, manufacturer's model number, size.
38. Master valves shall be metal, located as close to the point of connection as possible, and be metal pipe between the master valve and the water meter.
39. Turf areas irrigated with spray/rotor systems must be set back at least 24 inches from curbs, driveways, sidewalks or any other area that may result in runoff of water onto streets. An undulating landscape buffer area created by the setback shall be designed with rock, cobble or decomposed granite and/or can be landscaped with drip irrigated shrubs/accents or covered with suitable ground cover.
40. Meter sizing for landscape purposes shall be 33 GPM per planted acre.
41. Drip irrigation specified.
42. Correct spray head/ rotor setbacks on detail sheet.
43. Specify pressure compensating screens to control overspray as needed.
44. Installed appurtenances must be able to comply with cross-connection test procedures below. Upon approval of plans, CVWD will conduct an initial cross-connection shutdown test.

CROSS-CONNECTION PROCEDURES

Part 1: Cross-Connection Test Procedures on the Nonpotable Water Irrigation System

Objective: To locate possible cross-connections between the domestic water facilities and the nonpotable water irrigation distribution system.

Procedures:

1. Irrigation system will be activated by the Cotino Mutual Water Company to check for overspray, failing nozzles, misdirected spray heads, and runoff.
2. Verification that there are no gardens, herb gardens, water fountains, pools, and/or spas supplied by the irrigation system.
3. Verification that if a pool and/or spa exists that there is a definitive barrier that is 3-4' away from irrigation appurtenances.
4. Ensure that all above ground appurtenances on the irrigation system are purple and valve box covers are also purple and there is an internal tag.
5. Verify that there have been no unapproved changes to the irrigation system.
6. The nonpotable water irrigation system is pressurized at _____ psi
7. During the time that the nonpotable water irrigation system is operating, the domestic water system will be off for annual backflow test.
8. Water Quality samples will be collected from the irrigation system and tested for chlorine residual and electrical conductivity.

9. If no cross-connection exists, then the investigation will continue with Part 2.
10. During part 2, the irrigation system will be shutdown briefly for cross-verification when the domestic water system is restored and a flow/no flow test will be conducted on the irrigation system.

Part 2: Cross-Connection Test Procedures on the Domestic Water Facilities

Objective: To locate possible cross-connections between the domestic water facilities and the nonpotable water irrigation distribution system.

Procedures:

1. The domestic water service will be shut off and an annual backflow test will be conducted.
2. A flow/no flow test will be conducted at hose bibs on the domestic water system during backflow test and while the nonpotable water irrigation system is active.
3. Upon completion of the irrigation system tests, the irrigation system will be turned off.
4. Upon completion of the annual backflow test, the domestic water system will be restored.
5. The domestic water irrigation system is pressurized at _____ psi
6. Water Quality samples will be collected from the domestic water system and tested for chlorine residual and electrical conductivity.
7. A flow/no flow test will be conducted at hose bibs on the irrigation system while the irrigation system is turned off.
8. Verify that there have been no unapproved changes to the domestic water system.
9. If no cross-connection exists, then the investigation is completed, and the irrigation system will be restored.

In addition to the above, I agree to comply with the requirements of the Recycled Water Ordinance 1440.

Date: _____ Applicant: _____