



CARBONSEAL™

INDUSTRIAL COMPOSITE SYSTEMS

STEEL PIPE PROJECT



WATER RESERVOIR

OUTLET PIPE REPAIR

NEVADA

Service reservoirs store fully treated potable water close to the point of distribution. At this underground service reservoir, three outlet pipes had pitting and leaking, requiring repair.



PROBLEM

- » Corrosion from exposure to water and oxygen had causing pitting and leaking to the steel outlet pipes along the edge of the concrete tank
- » The reservoir required an NSF-61 approved system that was safe for potable water
- » The reservoir was only out of service for a minimal time, allowing for a small window to complete the repair



INSTALLATION

- » Surface preparation involved abrading the steel flange with an abrasive blast with NSF-61 approved media
- » The pipes were then patched, primed, and a high modulus paste applied
- » The CarbonSeal carbon fiber fabric was saturated and wrapped around each pipe, protected by a highly resistant, durable top coat



CONCLUSION

- » HJ3's CarbonSeal system met the NSF-61 requirements and brought three outlet pipes back to their original design strength
- » The system was installed in one day, meeting the time requirements of the reservoir as well

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