



SUSQUEHANNA RIVER BASIN COMMISSION

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Surface Water Withdrawal Application Peters Creek & Consumptive Use Application Project Summary

SRBC Pending No.: 2022-110

This summary is only a portion of the application materials and is meant to provide general information about the proposed project.

Project Sponsor

Company Name: Pilgrim's Oak Golf Course

Address: 1107 Pilgrim's Pathway

State: PA

City: Peach Bottom

Zip Code: 17563

Contact Person: Joe Szkalak

Title: Superintendent

Telephone: (717) 548-3011

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Requested Surface Water Withdrawal Quantity

Projected Design Year: 2037

Existing Withdrawal Quantity: 0.237(mgd)

Requested Withdrawal Quantity: 0.237(mgd)

Maximum Instantaneous Withdrawal Rate: 1200(gpm)

Estimated Daily Operation: 24(hours/day)

Requested Consumptive Use Quantity - Yes

Existing Consumptive Use: 0.237(mgd)

Requested Consumptive Use: 0.237(gpm)

Pre-Compact/Grandfathered CU: 0

Facility Location

Street Address: 1107 Pilgrims Pathway, Peach Bottom

State: PA

County: Lancaster

Municipality: Drumore Township

Zip Code: 17563

Surface Water Withdrawal Source Information

Source Name: Peters Creek

Source Type: stream

Subbasin: Lower Susquehanna

Project Facility

Pilgrims Oak golf course, owned by Pilgrims Oak LP, is applying for renewal of permit for surface withdrawal and consumptive water use of up to 237,000 GPD (Gallons per Day) for the purpose of irrigating the golf course. The 237,000 GPD will come from a spring fed pond located on the property and in times of weak spring flow, supplemental water will be withdrawn from Peters Creek. The 18 holes of greens, tees and fairways that exists as Pilgrims Oak Golf Course is located in Drumore Township, Lancaster County, Pennsylvania.

Pilgrims Oak golf course has been operating at the capacity of a golf course since July of 1996. The water at Pilgrims Oak GC will be used to irrigate the golf course to supply the plants with sufficient moisture to sustain life throughout mutable environmental conditions and adverse human and mechanical stresses. Under normal operation, water is first withdrawn from the spring fed pond located adjacent to the pump house. In times that the flow from the springs supplying the pond is weak and adequate supply to efficiently irrigate is not available, a wet well pump pumps supplementary water from our streams entry point of Peters Creek into the pond. Withdrawal from the pond and withdrawal from Peters Creek are both metered to (+ /-) 5%. Combined withdrawal from both sources maximum peak day rate is 237,000 GPD.

The 181 acre property of Pilgrims Oak has four ornamental ponds along with the .5 acre irrigation pond. Pond #1 is .51 acre, Pond #2 is 1.76 acres, Pond #3 is .37 acres and Pond #4 is .78 acres in size. Pond #1 has an ornamental stone spillway into pond #2 for overflow. Pond #2 has a concrete riser box with a small grate on the side for controlling normal water levels and a large grate on top for controlling flooding waters once the pond nears breaching the banks. Overflow water that enters the riser box flows through a large underground pipe approximately 500 ft and enters into pond #3. Pond #3 has a concrete spillway leading to another underground pipe which travels approximately 80 ft under a fairway and enters Pond #4. Pond #4 has a concrete spillway with a constant flow into a small creek. This creek meanders approximately 1775ft towards the irrigation pond where it comes to a concrete structure. At the concrete structure, there are four 6" pipes controlling the flow the remainder of the distance to Peters Creek. 1 pipe continues $\frac{1}{4}$ of the flow (Approximately 650 ft) straight to Peters Creek. The other 3 pipes divert the remaining (approximately $\frac{3}{4}$ of the flow) water into the two tier irrigation pond. (There is an ornamental waterfall between the two parts of the pond) When the irrigation pond is at full capacity, all excess water flows over yet another ornamental spillway, on the North side of the irrigation pond, and deposits directly back into the stream flow destined for Peters Creek. It enters the creek from the spillway approximately 300 ft further downstream from where pipe #1 initially separated the flow. Therefore, when the pond is at full capacity, all flow from the on course ponds and surrounding area surface drainage ends up depositing into Peters Creek where our small stream enters Peters Creek. (Coordinates for where the stream enters Peters Creek: 39.794083, -76.205567) When the pond requires supplemental water to maintain efficient operating levels, (from reduced head pressure from natural springs and/or inadequate rainfall) water is pumped via a metered wet well pump, from Peters Creek, and deposited into west end of the irrigation pond. (Coordinates for the wet well intake located in Peters Creek: 39.794189, -76.205546) A float system allows the wet well pump to shut off on its own once the pond reaches the preset (full) level.

Pilgrims Oak proposes to irrigate approximately (3) acres of greens, (3) acres of tees, (25) acres of fairways and (20) acres of rough surrounds.