Beyond the bowl: A tour of Key Largo's wastewater plant

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KEY LARGO --- The Key largo Wastewater Treatment District main plant has been compliant with U.S. Environmental Protection Agency's standards since 2010

proud of that accomplishment considering the plant facility at mile marker 100.3 that same year.

The EPA didn't expect Key. compliancy until January water plant was well ahead

Primicerio.

what happens to sewage Islamorada, - beyond the bowl. And

facility was o or free.

sewage goes.

In Key Large, from mile handles 450,000 gallons. marker 106.5 down to homes and businesses into spinning brush bristles the district's central sewer inside the pipe, in order to. lines. And under the terms breakdownsolids. Anything District officials are of an intedecal agreement solid that remains get filwith Islamorada, the Key tered out through screens largo plant now treats and disposed of as solid Islamorada's wastewater, waste. un erwent a major upgrade which extends its service

2016, so Key Largo's waste. pipes feed into the district's treatment plant at mile of the curve, district officials marker 100.3, oceanside, directly below the locked The main plant operates front gate. There are at least with five full-time employ- three pipes that feed into ees. At the helm is lered the influent sewer pipes. The district plant has two The Free Press visited main influent pipes: one the main plant to find out for Key largo and one for tors. The district plant has

On average, the Key Largo

Here is a look at where age each day while the has 15 minutes of straight process takes about 4.5 Asdourian said. I think Islamorada pipe currently chlorine contact. The treat- hours, Meanwhile, through- leved is doing a bell of a job.

Some of these solid area to Lower Matecumbe materials, according to Primicerto, are feminine Ultimately, all wastewater products, coins, baggies, hygiene wipes and "lots" of

Sometimes he finds cash "I take it and sanitize it." he said. The most he's found so far is \$10.

From Vacuum Station E. the wastewater gets piped into sequencing batch reacthree but only uses SBR 2 and SBR 3 at this time.

These are hune open-air tanks that bold about 1.73 million gallons of fluid,

"We are oversized here for good reason," Primicerio said. 'This plant was designed right."

There are two sequencing phases during this stage of treatment: the settlement phase, when bacteria breaks down sewage, and the acration phase, when blowers feed the bacteria unveen.

Primicerio said that bacteria need oxygen to eat.

Both SBRs then pipe the wastewater into the equalizer tank to be stabilized. When the tanks fills up more than 4.5 feet, the wastewater then moves into the chlorine contact cham-

1.1 million gallons of sew- ber. The wastewater now The two pipes run into chlorine residual per liter. his staff perform about 30 how to handle new issues." approximately rule mark. Vacuum Station E where This is clear purified water in-bouse tests during each. The plant's break room er 91, lateral pipes connect wastewater is augured by that Primicerio beams over. process.

This purified water then underground.

shallow monitoring wells said that are tested daily.

From start to finish, the Commissioner ed waterhas a 1.0 milligram out the day, Primicerio and and everyday he figures out

tors each process. "There is Association's

District Chairman

bouses three awards: the In addition to testing, Florida Department of gets pumped into the Class Primicerio said the staff Environmental Protection's 1 3,600 foot-deep injection mows the lawn, paints, does 2013 Award of Excellence well, past the boulder zone repairs and closely moni- and the Florida Rural Water The district also has two always something to do," he Wastewater Plant of the Year for 2013 and 2014.

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THERESA MYNVF THE PHONE

Key Largo sewer plant manager Jored Primicerio shows the wastewater erstam's chlorine-contact chamber.



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