From:	Pruder, Sina L
To:	Hew, Chauncey L
Cc:	Wendy Wiltse/R9/USEPA/US@EPA; Nancy Rumrill/R9/USEPA/US@EPA; Rimando, Jaime G; Uehara, Norris N
Subject:	RE: Lahaina question
Date:	06/16/2011 06:25 PM

CH:

Secondary treatment is the second step in most waste treatment systems during which bacteria consume the organic parts of the wastes. This is accomplished by bringing the sewage, bacteria and oxygen together in trickling filters or within an activated sludge process. Secondary treatment removes all floating and settleable solids and about 90 per cent of the oxygen—demanding substances and suspended solids.

The Lahiana WWTP is designed for 6.0 MGD (secondary treatment utilizing an activated sludge process) but current flows are around 4.0 MGD. The facility is only capable of producing 1.9 MGD of R-1 water because of the UV system. For R-1 water, 1.9 MGD secondary treated wastewater goes through a tertiary system that includes the sand filters and the UV system.
The secondary treated water that is not treated to R-1 standards is discharged into the injection wells.

Hope this helps.

Thanks,
Sina

From: Hew, Chauncey L
Sent: Thursday, June 16, 2011 1:43 PM
To: Pruder, Sina L
Cc: Wiltse.Wendy@epamail.epa.gov; Rumrill.Nancy@epamail.epa.gov; Rimando, Jaime G; Uehara, Norris N
Subject: FW: Lahaina question

SP: In Wendy's message, could you clarify the terminologies for all of us? Thank you.

6/16/11 CH

From: Wiltse.Wendy@epamail.epa.gov [mailto:Wiltse.Wendy@epamail.epa.gov]
Sent: Thursday, June 16, 2011 12:43 PM
To: Hew, Chauncey L; Rumrill.Nancy@epamail.epa.gov
Subject: Lahaina question

I am reviewing the tracer study workplan. In the description of the wastewater plant, it says that the portion of the effluent that is R1 is tertiary treated. Is that true? I thought it was all secondary but the R1 gets UV disinfection.

Thanks,
Wendy

Wendy Wiltse, Ph.D.
EPA-PICO
300 Ala Moana Blvd. Box 50003
Room 5-152
Honolulu, HI 96850
Phone: (808) 541-2752

FAX: (808) 541-2712