

Rennaker, Joanne (DEQ)

From: Cook, Pat (DEQ)
Sent: Monday, February 09, 2015 10:36 AM
To: Prysby, Mike (DEQ); Busch, Stephen (DEQ)
Subject: RE: EarthTec

I have heard of EarthTec, but to my knowledge there are no MI WTP's using it. Every year or so we get an inquiry about it, but nobody ever follows through and actually uses it. I think some WTP superintendents get scared off by adding a product that contains copper, but as you can see in the product literature very little Cu is in the finished product. As long as it's NSF approved, we can allow it.

pat

From: Prysby, Mike (DEQ)
Sent: Friday, February 06, 2015 4:00 PM
To: Busch, Stephen (DEQ)
Cc: Cook, Pat (DEQ)
Subject: Fwd: EarthTec for taste and odor Issues

I will look at this on Monday but thought I would forward it to you in case you have dealt with this type of treatment.

Sent from my iPhone

Begin forwarded message:

From: "Hansen, Jeff" <jrhansen@lan-inc.com>
To: "Prysby, Mike (DEQ)" <PRYSBYM@michigan.gov>
Subject: FW: EarthTec for taste and odor issues

Hi Mike,

Has the DEQ had any dealings with the attached product, EarthTec? Specifically, do you know if it is approved for drinking water applications in Michigan?

Jeffrey R. Hansen
 Senior Project Manager

From: David Carrington [<mailto:davidcarrington@earthsciencelabs.com>]
Sent: Friday, February 06, 2015 11:03 AM
To: Hansen, Jeff
Subject: Fw: EarthTec for taste and odor issues

see below.

Dave Carrington
EarthTec Business Manager
469-371-7866
EarthTecQZ.com

[Description: Image removed by sender. Publication1]

From: David Carrington
Sent: Friday, February 6, 2015 9:53 AM
To: eschiebold; jhansen@lan-inc.com
Cc: Allan Goldschmidt
Subject: Re: EarthTec for taste and odor issues

Jeff-

- * EarthTec is a liquid copper based product that has been used as a municipal water pretreatment chemical for the past 20 years.
- * NSF Certified.
- * We have hundreds of installations.
- * It essentially reacts with algae and organics to improve the water quality coming in to the plant.
- * There are no resulting dbp's with our product.
- * The product is normally dosed at 1 ppm at the raw water intake and reacts with the water prior to the treatment plant.
- * The copper is 100% cupric CU++ ions which are toxic and bioavailable. The actual copper level is only 60 ppb at 1 ppm.
- * The product stays in solution indefinitely until it reacts based on water demand.
- * Product has a negative charge and usually reduces the amount of coagulant required
- * We have several plants running ozone. No adverse effects with any oxidant. Should be able to reduce ozone feed rates assuming EarthTec reduces the organic loading.

I have attached some general information for your review. Please feel free to contact me with any questions.

Thanks,

Dave Carrington
EarthTec Business Manager
469-371-7866
EarthTecQZ.com

[Description: Image removed by sender. Publication1]

From: eschiebold <eschiebold@aol.com>
Sent: Friday, February 6, 2015 9:01 AM