



Des Moines  
Water Works Fleets

Gastineau, Janet <janet.gastineau@dnr.iowa.gov>

## RE: Geothermal complaint

1 message

Lins, John <lins@dmww.com>

Thu, Sep 13, 2018 at 10:11 AM

To: "Gastineau, Janet" <janet.gastineau@dnr.iowa.gov>

Cc: "Flickinger, Caleb" <flickinger@dmww.com>, "Puffer, Jennifer" <puffer@dmww.com>, "Corrigan, Ted" <corrigan@dmww.com>, "Mitchell, Jeff" <mitchell@dmww.com>

Janet:

After inspecting this home yesterday I determined the likelihood of any substance from the geothermal system making its way into their drinking water is very unlikely. The geothermal system was inoperative when they purchased the home a year ago and the water supply valve to the geothermal loop was closed. He admits to opening the supply valve for a few minutes to see if that would change anything, it did not and he closed it right away. He was concerned that by opening the valve he may have allowed glycol into his drinking water. The supply line had a dual check backflow preventer installed. Although these are not code approved for high hazards it would likely not let any substance backflow. In order for backflow to occur, the geothermal system would have had to be operating which it was not and also the operating pressure ( typically 40-50 psi) would have had to be higher than the supply pressure which it would not be.

Since he only had the valve open for a couple of minutes it is virtually impossible that back-siphonage occurred because our water was not off during this time.

Most of the geothermal equipment has been removed and I suggested he remove the water supply connection since the system is not going to be used.

**JOHN LINS** | Utility Incident Manager

Des Moines Water Works | **WATER YOU CAN TRUST FOR LIFE**

2201 George Flagg Parkway | Des Moines, Iowa 50321

phone: (515) 323-6234 | cell (515) 208-1993 fax: (515) 283-8723

e-mail: [lins@dmww.com](mailto:lins@dmww.com) [www.dmww.com](http://www.dmww.com)

**From:** Gastineau, Janet <janet.gastineau@dnr.iowa.gov>

**Sent:** Monday, September 10, 2018 3:27 PM

**To:** Lins, John <lins@dmww.com>

**Subject:** Re: Geothermal complaint

Sound great! Thanks for your help.



**JANET GASTINEAU** | Environmental Specialist Senior  
Iowa Department of Natural Resources | Field Office #5  
7900 Hickman Road, Suite 200, Windsor Heights, IA 50324  
C 515-250-4291 | P 515-725-0268 | F 515-725-0218  
[www.iowadnr.gov](http://www.iowadnr.gov)

On Mon, Sep 10, 2018 at 3:26 PM Lins, John <lins@dmww.com> wrote:

Thanks Janet our field guy went there today and I will take a look on Wednesday afternoon

Sent from my Verizon, Samsung Galaxy smartphone

----- Original message -----

From: "Gastineau, Janet" <janet.gastineau@dnr.iowa.gov>

Date: 9/10/18 1:07 PM (GMT-06:00)

To: "Lins, John" <lins@dmww.com>

Subject: Re: Geothermal complaint

wasn't sure the phone number for Josh Miller went through--it is 515-371-4222



**JANET GASTINEAU** | Environmental Specialist Senior  
Iowa Department of Natural Resources | Field Office #5  
7900 Hickman Road, Suite 200, Windsor Heights, IA 50324  
C 515-250-4291 | P 515-725-0268 | F 515-725-0218  
www.iowadnr.gov

On Mon, Sep 10, 2018 at 11:21 AM Janet Gastineau <janet.gastineau@dnr.iowa.gov> wrote:

Josh Miller number below. He has a geothermal installer coming out on Wednesday, but can cancel that if your staff is able to take a look at it before then. I told him someone would be contacting him to schedule a visit in the home. Thanks for all your help! Enjoy your trip.



# State Hygienic Laboratory

*The University of Iowa*

JOSH MILLER  
502 NW 69TH PL  
ANKENY, IA 50023

<i>Accession Number</i>	706562
<i>Date Sample Finalized</i>	2018-09-06 16:41
<i>Date Received</i>	2018-08-30 10:44
<i>Sample Source</i>	Drinking Water
<i>Project</i>	
<i>Date Collected</i>	2018-08-30 07:00
<i>Collection Site</i>	kitchen sink
<i>Collection Address</i>	502 NW 69TH PL ANKENY, IA
<i>Sample Description</i>	drinking water
<i>Client Reference</i>	
<i>Collector</i>	miller josh
<i>Phone</i>	515/371-4222

*Note:* Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

### Results of Analyses

#### Glycols, SOP UHL-H-019 LC/MS/MS

<i>Units</i>	mg/L	<i>Analyzed In</i>	Coralville
<i>Date Analyzed</i>	2018-09-06 12:34	<i>Date Verified</i>	2018-09-06 16:41
<i>Analyst</i>	NJB	<i>Verifier</i>	SJM

Analyte	Result	Quant Limit
Ethylene glycol	<1.0	1.0
Propylene glycol	<1.0	1.0

*Note:* This data was generated using an SHL developed procedure. Acceptable QC demonstrated.

#### Description of Units used within this report

mg/L = Milligrams per Liter

The result(s) of this report relate only to the items analyzed. This report shall not be reproduced except in full without the written approval of the laboratory.

Iowa Environmental Laboratory IDs are: Ankeny #397, Iowa City/Coralville #027, Lakeside #393.

If you have any questions, please call Client Services at 800/421-IOWA (4692) or 319/335-4500. Thank you.