

Werner, Elizabeth

From: Patrone, John
Sent: Tuesday, May 18, 2010 2:50 PM
To: Jv.potter@watgov.org
Cc: Werner, Elizabeth; Watkins, Jason; Lane, Ervin; rocky.nelson@watgov.org; donna.watson@watgov.org
Subject: Closed Watauga County Landfill Methane Exceedance Remediation Action:

J.V.,

I spoke with Elizabeth Werner, SWS Hydrogeologist, regarding the methane exceedance at the closed Watauga County landfill (95-02). Methane monitoring well No. 2 has been in exceedance of the lower explosive limit (LEL) at the property boundary for the past few months. In response to the continuation of methane exceedance please address the following:

1. Within two (2) weeks of receipt of this email develop a written (methane exceedance) remediation plan and send a copy to this office.
2. The methane remediation plan shall include a timeline for implementation (of the plan).
3. The remediation plan must include a standard operating procedure (SOP) to best manage the methane flare to limit failure and, if need be, to repair/replace immediately.
4. The remediation plan should include a schematic of methane monitoring well No. 2 and digital color pictures.

Please cc Elizabeth Werner on all correspondence (elizabeth.werner@ncdenr.gov).

If you have any questions please contact me.

Thank you,

John Patrone
NCDENR Winston-Salem Regional Office
Division of Waste Management, Solid Waste Section
585 Waughtown Street
Winston-Salem, NC 27107

Phone: 336-771-5000/5095

Fax: 336-771-4631

john.patrone@ncdenr.gov

<http://wastenot.enr.state.nc.us/swhome/>

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Werner, Elizabeth

From: Donna.Watson [Donna.Watson@watgov.org]
Sent: Wednesday, May 26, 2010 1:34 PM
To: Patrone, John
Cc: Werner, Elizabeth
Subject: Watauga County Landfill Methane Action
Attachments: image001.gif; LANDFILL GAS REMEDIATION PLAN.doc

Hey John,

I have attached a remediation plan, hopefully, this will work. I will forward the schematic of methane well #2, and digital color pictures also.

If you have any questions, please call.

Thanks
Donna

*Donna Watson
Administrative Assist. II
Watauga County Sanitation
336 Landfill Rd.
Boone, NC 28607
828-264-5305
828-264-1702(fax)*

Please note new e-mail address

LANDFILL GAS REMEDIATION PLAN

WATAUGA COUNTY LANDFILL BOONE, NORTH CAROLINA

SOLID WASTE PERMIT NO. 95-03T

This LFG Remediation Plan is intended to address probe #2 which exceeds the regulatory limits of methane concentrations.

Our remediation efforts are as follows:

- Currently installing three gas extraction wells to replace two unproductive wells to help prevent gas migration on the southern edge of the landfill (probe #2) to be completed by June 1, 2010.
- Our engineers are conducting methane testing on a monthly basis at all of our County buildings and the residential houses adjacent to the landfill. They will continue the monthly testing until levels are below 5% methane by volume.
- A gas to energy project is in progress at the landfill. Equipment is being installed to convert gas to energy to supply the Sanitation Department. Once engines are in place this should assist in an additional release of methane from the flare reducing methane levels in current gas probes.

Standard Operating Procedure

- Trained county employees will be conducting a routine maintenance schedule on the flare.
- In the event the flare becomes inoperable, we will have a back-up blower on site to be installed by County employees. We are planning to send the spare blower back to the manufacturer to be rebuilt by July 1, 2010.

Werner, Elizabeth

From: Werner, Elizabeth
Sent: Thursday, May 27, 2010 9:56 AM
To: Patrone, John
Subject: RE: Watauga County Landfill Methane Action
Attachments: image001.gif

Hi John. Their remediation plan looks good to me. But I'd ask them to state in bullet #2 that they are methane testing all the onsite wells monthly. Also, ask them to submit the boring logs and well schematics for the three new extraction wells. They should be installed by next Tuesday according to their plan.

Thank you for forwarding me all of this information.

Have a great day.

Elizabeth

From: Patrone, John
Sent: Wednesday, May 26, 2010 3:26 PM
To: donna.watson@watgov.org
Cc: Werner, Elizabeth
Subject: RE: Watauga County Landfill Methane Action

Donna,

Thanks. I will look at it in more detail tomorrow. On bullet No. 2 of the remediation plan.... is methane testing also being conducted at the landfill monitoring wells? I assume but would like affirmation on this.

John

From: Donna.Watson [mailto:Donna.Watson@watgov.org]
Sent: Wednesday, May 26, 2010 1:34 PM
To: Patrone, John
Cc: Werner, Elizabeth
Subject: Watauga County Landfill Methane Action

Hey John,

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Thanks
Donna

Donna Watson
Administrative Assist. II

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Please note new e-mail address