



George E. Meyer  
Secretary

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Southern District Headquarters  
3911 Fish Hatchery Road  
Fitchburg, Wisconsin 53711  
TELEPHONE 608-275-3266  
TELEFAX 608-275-3338

June 27, 1994

File Ref: Ripon FF/NN Site, #915

ERR/FID# 431048200

Ms. Linda Nachowicz  
USEPA, Region 5  
HSRW-6J  
77 W. Jackson Blvd.  
Chicago, IL 60604

SUBJECT: Ripon FF/NN Quarterly Update

Dear Ms. Nachowicz:

Activity picked up a little bit the past three months. Two additional groundwater monitoring wells were installed south of the site. The purpose of the wells were to make sure that contamination wasn't headed towards the houses. The houses all tested clean, but in the future monitoring wells will be sampled rather than water supply wells.

Drilling was completed the first week in April. It is a well nest, one water table well and one piezometer screened about 30' below the water table. Sampling of the wells failed to detect any VOCs.

It appears that contamination is leaving the landfill and moving to the southwest and then discharging into the wetland. Contamination also is moving downward, and groundwater in this aquifer also flows towards the west.

Only eight VOCs have been detected in groundwater, two of those exceeding NR 140, Wis. Adm. Code enforcement standards. Vinyl chloride is the primary contaminant of concern.

Another problem which was recently uncovered was methane. The site has a passive gas system. Vents from the system have never detected methane and had atmospheric concentrations of oxygen. Vegetation near the landfill doesn't indicate methane stress. Landfill gas was never thought to be a problem.

Sampling of water table wells south and west of the site had detectable levels of methane in them the last time they were sampled. Concentrations were below the lower explosive limit, but were detectable. This new data will require a little bit of extra monitoring. Gas probes will have to be installed as part of the remedy.

The PRP group has prepared an AAD. It was received on June 15. I haven't completed my review yet. It is a full AAD containing potential remedies for source control (including landfill gas) and groundwater. I should have my review completed by mid July.


Ms. Linda Nachowicz - June 27, 1994

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The only other activity completed for the site was a fact sheet. I sent it out in May. A copy of it is enclosed with this letter.

That's about all it. If you have any questions, give me a call.

Sincerely,

A handwritten signature in cursive script that reads "Stephen M. Ales".

Stephen M. Ales, CPG  
District Hydrogeologist  
Tel. (608) 275-3310

Enclosure: Superfund Fact Sheet, May 1994



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Southern District Headquarters  
3911 Fish Hatchery Road  
Fitchburg, Wisconsin 53711  
TELEPHONE 608-275-3266  
TELEFAX 608-275-3338

March 24, 1994

File Ref: Ripon FF/NN Landfill, #915

→ FID# 431048200

Ms. Linda Nachowicz  
U.S. EPA, Region 5  
HSRW-6J  
77 W. Jackson Blvd  
Chicago, IL 60604

SUBJECT: Quarterly Update

Dear Linda:

It is time once again for a quarterly update to you. Not too much has been happening the past few months. I have spoken with the consultant for the PRP group and informed them that I want things to proceed a little faster. The site isn't that complicated, it should be progressing at a faster rate.

All of the groundwater quality and soils data from last fall has been validated and the data is defensible. The groundwater quality data indicates that contamination is coming from the landfill and moving to the southwest towards the wetland on the west side of the road. The shallow groundwater is discharging into the wetland. Flow within the deeper aquifer is also towards the west.

In general, the groundwater problem isn't that extensive or severe. A total of eight VOCs were detected in monitoring wells, two of which exceed NR 140 enforcement standards (vinyl chloride and cis 1,2-DCE). Vinyl chloride was measured at 75 ug/l right next to the landfill, but at 400' downgradient it was measured at 6 ug/l. The enforcement standard for vinyl chloride is 0.2 ug/l. Cis 1,2-DCE was measured at 410 ug/l next to the landfill and 4 ug/l downgradient of the site. The ES for cis 1,2-DCE is 100 ug/l.

Measurements for methane, CO<sub>2</sub> and O<sub>2</sub> at the gas vents and water table wells close to the landfill indicate that the site isn't producing much, if any methane. We won't have to worry about gas problem.

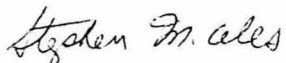
Three leachate head wells were installed through the waste, stopping once the base of the waste was reached. It appears as though the waste is saturated, in some places up to 8' or 10' of head. There is an unsaturated zone between the waste and the true water table.

Starting on April 4, one additional set of wells is to be installed. The well nest will be located south of the Bosveld house and straight east of the wetland. The purpose of the wells is to make sure that no contaminants are headed towards the houses located south of the wetland. It should only take a couple of days to install and develop them. All of the wells are scheduled to be sampled during the week of April 11.

The PRP group has also started work on an the alternatives array document. The contract with the group states that they have to complete a full RI, and implement a source control operable unit. The AAD will eventually address both groundwater and source control, but early drafts of the AAD will primarily address source control options.

That is about it. There isn't too much field work to complete. Once it is done, then they can really get going on the remedy selection process. Give me a call if you have any questions.

Sincerely,



Stephen M. Ales, CPG  
District Hydrogeologist  
Tel. (608) 275-3310

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Southern District Headquarters  
3911 Fish Hatchery Road  
Fitchburg, Wisconsin 53711  
TELEPHONE 608-275-3266  
TELEFAX 608-275-3338

January 12, 1994

File Ref: Ripon FF/NN Site, #915

Ms. Linda Nachowicz  
USEPA, Region 5  
HSRW-6J  
77 W. Jackson Blvd  
Chicago, IL 60604

SUBJECT: Ripon FF/NN Quarterly Update for Oct. - Dec., 1993

Dear Linda:

This update was due to you last month. I apologize for being late with it. Between the holidays and writing a ROD for another site, I let this one slip.

The offsite access permission that had been denied last summer was gained in early fall. Five wells were installed during the first week of October. The drilling proceeded without any problems. The wells were developed, k-tested and then sampled later in the month.

In addition, the deep piezometer was also drilled in October. As I recall, you were out there for part of this drilling. Some problems were encountered while drilling this well, namely getting the casing to seat into the bedrock. The problems were eventually solved and the well was completed on October 22. This well was sampled at selected intervals while drilling. Samples were collected at three intervals (177-182, 240-250, and 325-340). All of the samples detected vinyl chloride ranging from 5 - 39 ug/l. Arrangements were made for treatment or disposal of the drilling wastes.

All of the 18 homes sampled for VOCs have received their results. As I mentioned in the last update, one house had a detect of benzene, but subsequent sampling of the well failed to detect anything. None of the other wells detected any VOCs. Based on what is known about the site hydrogeology so far, I don't think the benzene detect is from the landfill. However, I will sample that well again this spring just to make sure the benzene doesn't show up again.

The next submittal will contain proposed locations for additional groundwater monitoring wells. With the detects of vinyl chloride, I suspect they will be drilling some more deep piezometers. The rest of the wells will be used to fill in gaps in the water table. This submittal is due on January 12. My guess is that they will recommend waiting until March to start drilling again.



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Ms. Linda Nachowicz - January 12, 1994

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That is about it. If you have any questions, give me a call. I will let you know when drilling starts.

Sincerely,

*Stephen M. Ales*

Stephen M. Ales  
District Hydrogeologist  
Tel. (608) 275-3310

cc: Jane Lemcke - SW/3, GEF 2