

File



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Wisconsin Rapids Area Headquarters
1681 Second Ave. South
Wisconsin Rapids, WI 54494
TELEPHONE 715-421-7840

Carroll D. Besachny
Secretary

January 9, 1992

File Ref: 4440

Ms. Karla Johnson
Remedial Project Manager
U.S. EPA
77 West Jackson Boulevard, HSRW-6J
Chicago, IL 60604

Ms. Michelle DeBrock-Owens
Project Manager
Wisconsin DNR
P.O. Box 818
Rhineland, WI 54501

SUBJECT: Wausau Water Supply, Monthly Status Report, Dec., 1991
Final Remedial Design/Remedial Action

Dear Ms. Johnson and Ms. DeBrock-Owens:

During the month of December, no field activities were conducted at the Wausau Water Supply site that required WDNR field oversight.

Please contact me at (715) 421-7840, if you have any questions or comments.

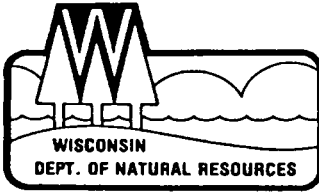
Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

DRG:drg

pc: Superfund Unit Leader - SW/3, Madison
Sue Coll - U.S. EPA, Region 5, 230 Dearborn St., Chicago, IL 60604

file



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Wisconsin Rapids Area Headquarters
1681 Second Ave. South
Wisconsin Rapids, WI 54494
TELEPHONE 715-421-7840

Carroll D. Besadny
Secretary

February 11, 1992

File Ref: 4440

Ms. Karla Johnson
Remedial Project Manager
U.S. EPA
77 West Jackson Boulevard, HSRW-6J
Chicago, IL 60604

Ms. Michelle DeBrock-Owens
Project Manager
Wisconsin DNR
P.O. Box 818
Rhineland, WI 54501

SUBJECT: Wausau Water Supply, Monthly Status Report, Jan., 1992
Final Remedial Design/Remedial Action

Dear Ms. Johnson and Ms. DeBrock-Owens:

During the month of January, no field activities were conducted at the Wausau Water Supply site that required WDNR field oversight. WDNR is currently reviewing the third draft revised RD/RA work plan submitted by CRA Ltd. on January 16, 1992.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

A handwritten signature in cursive script that reads 'Donald R. Grasser'.

Donald R. Grasser, P.E.
Superfund Construction Engineer

DRG:drg

pc: Superfund Unit Leader - SW/3, Madison
Sue Coll - U.S. EPA, Region 5, 230 Dearborn St., Chicago, IL 60604



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Carroll D. Besadny
Secretary

March 13, 1992

File Ref: 4440

Ms. Karla Johnson
Remedial Project Manager
U.S. EPA
77 West Jackson Boulevard, HSRW-6J
Chicago, IL 60604

Mr. Rich Riedl
Wisconsin Department of Natural Resources
101 South Webster Street
Box 7921
Madison, WI 53707

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, Feb., 1992
Final Remedial Design/Remedial Action

Dear Ms. Johnson and Mr. Riedl:

During the month of February, Marathon Electric conducted the quarterly groundwater sampling at the selected wells and the extraction well (EW-1) at the Wausau Water Supply NPL site. WDNR was not on-site to oversee this activity. WDNR reviewed the final revisions to RD/RA work plan and submitted comments to EPA. The WDNR is currently reviewing the Pre-Design Investigation and 30% Remedial Design reports submitted by Conestoga-Rovers and Associates and received on February 18, 1992.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll - U.S. EPA, Region 5, 77 West Jackson Boulevard, Chicago, IL 60604
Superfund Unit Leader - SW/3, Madison
Wausau Water Supply NPL Site File - NCD, Rhinelander



file



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Carroll D. Besadny
Secretary

April 16, 1992

File Ref: 4440

Ms. Karla Johnson
Remedial Project Manager
U.S. EPA (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604

Mr. Rich Riedl
Wisconsin Department of Natural Resources (SW/3)
101 South Webster Street
Box 7921
Madison, WI 53707

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, Mar., 1992
Final Remedial Design/Remedial Action

Dear Ms. Johnson and Mr. Riedl:

During the month of March there were no on-site activities requiring oversight by WDNR personnel. WDNR reviewed the Pre-Design Investigation and 30% Remedial Design reports submitted by Conestoga-Rovers and Associates (CRA) and sent comments to the U.S. EPA on March 25. We are awaiting CRA's responses to the combined agency comments sent by EPA on April 7, 1992.

I want to inform you that I recently found out that a 12-month assessment report for the Interim Action Groundwater Extraction, Treatment and Discharge System was submitted to our North Central District office by CRA. I did not receive a copy of this report at the my office as per the mailing list. I am in the process of obtaining a copy of this report and will send any comments the WDNR has to EPA.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll - U.S. EPA, Region 5, 77 West Jackson Boulevard, Chicago, IL 60604
Superfund Unit Leader - SW/3, Madison
Wausau Water Supply NPL Site File - NCD, Rhinelander



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State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besadny
Secretary

Wisconsin Rapids Area Headquarters
1681 Second Ave. South
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May 21, 1992

File Ref: 4440

Ms. Margaret Guerriero
Remedial Project Manager
U.S. EPA (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604

Mr. Rich Riedl, Project Coordinator
Wisconsin Department of Natural Resources (SW/3)
101 South Webster Street
Box 7921
Madison, WI 53707

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, Apr., 1992
Final Remedial Design/Remedial Action

Dear Ms. Guerriero and Mr. Riedl:

During the month of April there were no on-site activities requiring oversight by Wisconsin Department of Natural Resources (WDNR) personnel. WDNR is awaiting responses from Conestoga-Rovers and Associates (CRA) to our review comments sent to them by EPA on April 7, 1992 for the Pre-Design Investigation and 30% Remedial Design reports.

The WDNR is currently reviewing the 12-month assessment report for the Interim Action Groundwater Extraction, Treatment and Discharge System was submitted by CRA. Don Grasser was in contact with CRA and Joe Gehin, City of Wausau, to assure that the Department is getting the proper number of plans submittals to the appropriate personnel and addresses.

There is a conference call scheduled for May 26, 1992 at 1:00 p.m. by CRA. They want to discuss a proposal to phase the implementation of the SVE systems at Marathon Electric and Wausau Chemical. There has also been a request by Marathon Press on Second Street northeast of Wausau Chemical to abandon and/or convert to flush mount, monitoring wells on their property. These wells include: MWs E23A and E37A near their buildings, MWs FVD 1, 2, 5, and 7 in their parking lots next to ~~Marathon Electric~~. MWs FVD7 and E37A, are included in the Comprehensive Well Network, Table E.2b, and the Water Level Monitoring Well Network, Figure E.3, of the RD/RA Work Plan. MW FVD5 is also included on Figure E.3. We should discuss this issue during the conference call on Tuesday.

Wausau Energy



FILE COPY

Please contact me at (715) 421-7840, if you have any questions or comments. Welcome back Margaret!

Sincerely,



Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Boulevard, Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Wausau Water Supply NPL Site File, NCD - Rhinelander



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besadny
Secretary

Wisconsin Rapids Area Headquarters
1681 Second Ave. South
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June 11, 1992

File Ref: 4440

Ms. Margaret Guerriero
Remedial Project Manager
U.S. EPA (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604

Mr. Rich Riedl, Project Coordinator
Wisconsin Department of Natural Resources (SW/3)
101 South Webster Street
Box 7921
Madison, WI 53707

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, May, 1992
Final Remedial Design/Remedial Action

Dear Ms. Guerriero and Mr. Riedl:

During the month of May there were no on-site activities requiring oversight by Wisconsin Department of Natural Resources (WDNR) personnel. WDNR personnel participated in a conference call with U.S. EPA, Conestoga-Rovers and Associates (CRA), and Hydro-Geo-Chem on May 26, 1992 to discuss the agency review comments sent to them by EPA on April 7, 1992 for the Pre-Design Investigation and 30% Remedial Design reports. Many of the minor comments were resolved over the phone while some other major comments, including modelling concerns and questions, have not yet been resolved.

The WDNR sent the review comments to EPA on June 1, 1992 for the 12-month assessment report for the Interim Action Groundwater Extraction, Treatment and Discharge System submitted by CRA.

The WDNR also sent a letter to EPA expressing our concern about the proposal from the settling defendants and their consultant to phase the final remedial action. Additional documentation and justification is necessary to warrant such a change.

Don Grasser has followed up on the request by Marathon Press to abandon monitoring wells (MWs) E23A and E37A near their building due to construction of an addition. Joe Gehin, City of Wausau Water Utility Director, has informed me that the city will properly abandon these wells. Don Grasser sent Mr. Gehin the applicable code and other information to assure proper abandonment. Brian Boevers, CRA, will be determining if either of these wells must be

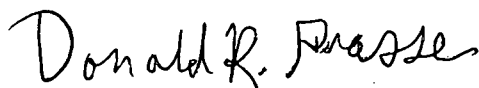


replaced for the long term monitoring program or if other wells can be designated to replace them.

With regard to Marathon Press's other request to convert to flush mount, MWs FVD 1, 2, 5, and 7 in their parking lots next to Wausau Energy, Don Grasser was in contact with project managers from WDNR and Foth and Van Dyke consultants who are working on a separate petroleum related spill cleanup on the Wausau Energy property. It has been determined that these wells are still needed for that project so abandonment will not be allowed, however, Marathon Press may pursue having these wells flush mounted as Wausau Energy is reportedly going through bankruptcy procedures.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,



Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Boulevard, Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Wausau Water Supply NPL Site File, NCD - Rhinelander



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Wisconsin Rapids Area Headquarters
1681 Second Ave. South
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Carroll D. Besadny
Secretary

July 13, 1992

File Ref: 4440

Ms. Margaret Guerriero
Remedial Project Manager
U.S. EPA (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604

Mr. Rich Riedl, Project Coordinator
Wisconsin Department of Natural Resources (SW/3)
101 South Webster Street
Box 7921
Madison, WI 53707

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, June, 1992
Final Remedial Design/Remedial Action

Dear Ms. Guerriero and Mr. Riedl:

During the month of June there were no on-site activities requiring oversight by Wisconsin Department of Natural Resources (WDNR) personnel.

WDNR personnel participated in conference calls with Margaret Guerriero of U.S. EPA on June 8 and 22, 1992 to discuss outstanding design issues relating to the Pre-Design Investigation and 30% Remedial Design reports as well as the proposal by the PRPs and their consultants to phase to remedial action work. The conclusions of these discussions and WDNR concerns about the phasing of the project as stated in our June 5 letter to EPA were outlined in a letter from U.S. EPA to Conestoga-Rovers & Associates, Inc. (CRA) dated June 23, 1992. A response to that letter was received from CRA dated July 2, 1992 (received by telefax on July 6, 1992) in which they agreed that a meeting should be scheduled to discuss these issues.

WDNR sent the review comments to EPA on June 1, 1992 for the 12-month assessment report for the Interim Action Groundwater Extraction, Treatment and Discharge System submitted by CRA. The WDNR has also reviewed the April and May, 1992 monthly progress reports submitted by Joe Gehin and our comments and questions on these reports are attached.

Don Grasser has been in contact with and providing technical assistance to Dave Erickson, City of Wausau, regarding the abandonment of monitoring wells (MWs) E23A and E37A on the Marathon Press property. The city will properly abandon these wells. Due to the distance from the known areas of soil contamination and the fact that there would be little or no contact with



groundwater during abandonment, Don Grasser and Dave Erickson agreed that Level D protection as used by the Marathon Electric groundwater sampling crew (Interim Action Health and Safety Plan) would be sufficient for personal protection equipment. If any vapors or odors are smelled, the workers should immediately leave the area until the air can be screened with the appropriate air monitoring device(s).

Joe Gehin, City of Wausau Water Utility Director, informed Don Grasser on June 2, 1992 that he would contact Brian Boevers, CRA, to determine if either of these wells must be replaced for the long term monitoring program or if other wells can be designated to replace them. Monitoring well E37A is on the water level and comprehensive, monitoring well network lists.

Don Grasser was in contact with Todd Lynn of Marathon Electric on July 2, 1992 as a follow-up to a conversation with him on June 18 regarding a request to shut down extraction well EW-1 during the period of June 29 through July 4. WDNR was unable to get input from EPA due to shortness of the notice and vacations by the various project staff. Mr. Lynn informed Don Grasser on July 2 that they would be shutting down the well no longer than 8 hours per day as was discussed on June 18. They had not shut down the well for more than 6 or 7 hours a day.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,



Donald R. Grasser, P.E.
Superfund Construction Engineer

Attachment

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Boulevard, Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Wausau Water Supply NPL Site File, NCD - Rhinelander

ATTACHMENT

Review Comments, Wausau Water Supply NPL Site, April and May Monthly Progress Reports:

April, 1992 Progress Report -

- 1) What is the source of carbon disulfide in some of the monitoring wells?
- 2) Table 10 shows very high levels of TCE at monitoring well MW W55.
- 3) Table 13 shows benzene and acetone at CW 3. What is the source of these contaminants?
- 4) Table 14 and 15 shows 1,1,1-trichloroethane in the EW-1 influent and effluent until, but not after, December 17, 1990. It was not found in the monitoring wells. What is the cause of this trend?
- 5) Tables 15 and 16 should be reviewed to determine if there are any surface water discharge limit exceedances for the EW-1 effluent.

May, 1992 Progress Report -

- 1) What causes the increases in DCE in C4D and TCE in R4D? It would appear that perhaps these compound concentrations decreased after the EW-1 flow reduction from 1600 to 800 gpm and are now climbing (increasing) again.



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besadny
Secretary

Wisconsin Rapids Area Headquarters
1681 Second Ave. South
Wisconsin Rapids, WI 54494
TELEPHONE 715-421-7840
TELEFAX 715-421-7830

August 13, 1992

File Ref: 4440

Ms. Margaret Guerriero
Remedial Project Manager
U.S. EPA (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604

Mr. Rich Riedl, Project Coordinator
Wisconsin Department of Natural Resources (SW/3)
101 South Webster Street
Box 7921
Madison, WI 53707

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, July, 1992
Final Remedial Design/Remedial Action

Dear Ms. Guerriero and Mr. Riedl:

During the month of July there were no on-site activities requiring oversight by Wisconsin Department of Natural Resources (WDNR) personnel.

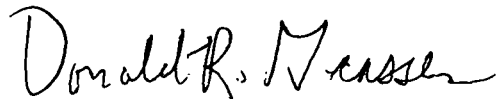
WDNR personnel participated in a meeting with EPA, the PRPs, and their consultants on July 17, 1992 to discuss outstanding design issues relating to the Pre-Design Investigation and 30% Remedial Design reports as well as the proposal by the PRPs and their consultants to phase the remedial action work which will no longer be pursued. WDNR is preparing a summary of the discussions of this meeting in a memorandum to the file and will copy EPA when it is finalized. Following the meeting and discussions with EPA and Conestoga-Rovers & Associates (CRA), Rich Riedl, summarized the major outstanding issues and how they will be addressed, in his letter to EPA dated July 31, 1992.

The WDNR is presently reviewing the July, 1992 monthly progress report submitted by Joe Gehin, City of Wausau, on August 7, 1992, and the Groundwater Flow Model Draft Report submitted by CRA and received on August 5, 1992.



Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

A handwritten signature in cursive script that reads "Donald R. Grasser". The signature is written in black ink and is positioned above the typed name.

Donald R. Grasser, P.E.
Superfund Construction Engineer

Attachment

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Boulevard, Chicago, IL 60604
Jane Lemcké, Superfund Unit Leader, SW/3 - Madison
Wausau Water Supply NPL Site File, NCD - Rhinelander



FILE COPY

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besadny
Secretary

Wisconsin Rapids Area Headquarters
1681 Second Ave. South
Wisconsin Rapids, WI 54494
TELEPHONE 715-421-7840
TELEFAX 715-421-7830

September 9, 1992

File Ref: 4440

Ms. Margaret Guerriero
Remedial Project Manager
U.S. EPA (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604

Mr. Rich Riedl, Project Coordinator
Wisconsin Department of Natural Resources (SW/3)
101 South Webster Street
Box 7921
Madison, WI 53707

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, August, 1992
Final Remedial Design/Remedial Action

Dear Ms. Guerriero and Mr. Riedl:

During the month of August, the Wisconsin Department of Natural Resources (WDNR) construction oversight engineer conducted on-site oversight of the quarterly groundwater monitoring on August 4, 1992. No significant problems were observed or reported.

WDNR reviewed the July monthly progress report prepared by Conestoga-Rovers and Associates (CRA) and submitted by Joe Gehin, City of Wausau. The Department has no comments on this report except to note that WDNR has requested in previous monthly report review comments that CRA should indicate and report any exceedances of surface water discharge limits for the extraction well (EW-1) discharge (outflow) to the Wisconsin River.

WDNR reviewed the Groundwater Flow Model Draft Report submitted by CRA and received on August 3, 1992 in the area office. Rich Riedl will be submitting our comments in a letter to EPA within a week. We are currently reviewing the report entitled, "Systematic Approach To Soil Vapor Extraction System Design" submitted by Hydro-Geo-Chem, Inc. and received on August 26, 1992.



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Please contact me at (715) 421-7840, if you have any questions or comments.

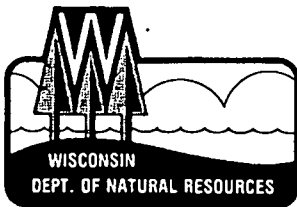
Sincerely,



Donald R. Grasser, P.E.
Superfund Construction Engineer

Attachment

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Boulevard, Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Wausau Water Supply NPL Site File, NCD - Rhinelander



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Wisconsin Rapids Area Headquarters
1681 Second Ave. South
Wisconsin Rapids, WI 54494
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Carroll D. Besadny
Secretary

October 20, 1992

File Ref: 4440

Ms. Margaret Guerriero
Remedial Project Manager
U.S. EPA (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604

Mr. Rich Riedl, Project Coordinator
Wisconsin Department of Natural Resources (SW/3)
101 South Webster Street
Box 7921
Madison, WI 53707

**SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, September, 1992
Final Remedial Design/Remedial Action**

Dear Ms. Guerriero and Mr. Riedl:

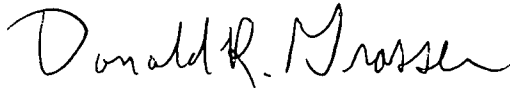
During the month of September, there were no on-site activities requiring oversight by the Wisconsin Department of Natural Resources (WDNR).

WDNR reviewed the August and September, 1992 monthly progress report prepared by Conestoga-Rovers and Associates (CRA) and submitted by Joe Gehin, City of Wausau. The Department has no comments on these reports except to note again that WDNR has requested in previous monthly report review comments that CRA indicate and report any exceedances of surface water discharge limits for the extraction well (EW-1) discharge (outflow) to the Wisconsin River.

WDNR has reviewed and submitted comments to EPA on the Groundwater Flow Model Draft Report submitted by CRA, received on August 3, 1992, and the report entitled, "Systematic Approach To Soil Vapor Extraction System Design" submitted by Hydro-Geo-Chem, Inc., received on August 26, 1992. As per Rich Riedl's letter of October 12, 1992, a teleconference has been tentatively scheduled for October 26, 1992 to discuss our comments on the Groundwater Flow Model Draft Report and other items outlined in his letter.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

A handwritten signature in cursive script that reads "Donald R. Grasser".

Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Boulevard, Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Wausau Water Supply NPL Site File, NCD - Rhinelander



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Wisconsin Rapids Area Headquarters
1681 Second Ave. South
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Carroll D. Besadny
Secretary

November 13, 1992

File Ref: 4440

Ms. Margaret Guerriero
Remedial Project Manager
U.S. EPA (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604

Mr. Rich Riedl, Project Coordinator
Wisconsin Department of Natural Resources (SW/3)
101 South Webster Street
Box 7921
Madison, WI 53707

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, October, 1992
Final Remedial Design/Remedial Action

Dear Ms. Guerriero and Mr. Riedl:

During the month of October, there were no on-site activities requiring oversight by Wisconsin Department of Natural Resources (WDNR) personnel.

Rich Reidl, Mike Barden, and Don Grasser of WDNR participated in a conference call with Margaret Guerriero, EPA, on November 2, 1992 to discuss our previous comments and comments by Dr. R. Ryan Dupont on the Pre-Design report, 30% Preliminary Design report, and the report entitled "Systematic Approach To Soil Vapor Extraction System Design" by Hydro-Geo-Chem, Inc. EPA will be contacting Conestoga-Rovers and Associates (CRA) about incorporation of additional comments into the review process. According to the October monthly status report submitted by CRA and the City of Wausau, CRA is awaiting EPA approval of the SVE modeling approach prior to resuming work on the 60% design package.

WDNR is currently reviewing the request by Marathon Electric to use a portion of the extraction well (EW-1) discharge water for cooling water within their facility. As per our discussion on November 2, we will be requesting additional information from Marathon Electric in order to properly assess this proposal.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,



Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Boulevard, Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Wausau Water Supply NPL Site File, NCD - Rhinelander
Area office file, Wisconsin Rapids

File



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

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Wisconsin Rapids, WI 54494
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Carroll D. Besadny
Secretary

December 8, 1992

File Ref: 4440

Office of Director, Waste Management Division
United States Environmental Protection Agency
Attn: Margaret Guerriero, Remedial Project Manager (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

Wisconsin Department of Natural Resources (SW/3)
Attn: Mr. Rich Riedl, Project Coordinator
101 South Webster Street
Box 7921
Madison, WI 53707

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, October, 1992 Final Remedial Design/Remedial Action

Dear Ms. Guerriero and Mr. Riedl:

During the month of November, the only on-site activity was the ongoing interim monitoring program conducted on November 2 and 3. Wisconsin Department of Natural Resources (WDNR) staff did not oversee this sampling event.

WDNR reviewed the November, 1992 monthly progress report prepared by Conestoga-Rovers and Associates (CRA) and submitted by Joe Gehin, City of Wausau. The Department has no comments on this report. The WDNR submitted its comments on the Systematic Approach to Soil Vapor Extraction System Design by Hydro-Geo-Chem and the draft Groundwater Flow Model by CRA. These comments were sent with EPA's comments to CRA.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Blvd., Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Wausau Water Supply NPL Site File, NCD - Rhinelander



Carroll D. Besadny
Secretary

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Wisconsin Rapids Area Headquarters
1681 Second Ave. South
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TELEPHONE 715-421-7840
TELEFAX 715-421-7830

January 19, 1993

File Ref: 4440

Office of Director, Waste Management Division
United States Environmental Protection Agency
Attn: Margaret Guerriero, Remedial Project Manager (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

Wisconsin Department of Natural Resources (SW/3)
Attn: Mr. Rich Riedl, Project Coordinator
101 South Webster Street
Box 7921
Madison, WI 53707

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, December, 1992 Final
Remedial Design/Remedial Action

Dear Ms. Guerriero and Mr. Riedl:

Please note that the November monthly progress report dated December 8, 1992 was incorrectly titled the October, 1992 report, however, the first sentence of the letter correctly references November.

During the month of December, no on-site activities were conducted requiring oversight by Wisconsin Department of Natural Resources (WDNR) staff.

WDNR is awaiting receipt of the 60% Design Report to be submitted on January 29 as per the January 6, 1993 letter from Conestoga-Rovers and Associates.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Blvd., Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Wausau Water Supply NPL Site File, NCD - Rhinelander



file



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Wisconsin Rapids Area Headquarters
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George E. Meyer
Secretary

February 9, 1993

File Ref: 4440

Office of Director, Waste Management Division
United States Environmental Protection Agency
Attn: Margaret Guerriero, Remedial Project Manager (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

Wisconsin Department of Natural Resources (SW/3)
Attn: Mr. Rich Riedl, Project Coordinator
101 South Webster Street
Box 7921
Madison, WI 53707

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, January, 1993 Final Remedial Design/Remedial Action

Dear Ms. Guerriero and Mr. Riedl:

During the month of January, no on-site activities were conducted requiring oversight by Wisconsin Department of Natural Resources (WDNR) staff. WDNR received the revised Pre-Design Investigation Report, the 60% Design Report, and associated supporting documents on January 29, 1993 from CRA. We are currently reviewing these documents and expect to submit our comments to EPA on February 26.

Rich Riedl and Charlene Khazae, WDNR, attended a QAAP meeting at EPA Region V headquarters on January 27. Representatives from Conestoga-Rovers and Associates (CRA) and the City of Wausau met with WDNR and EPA to discuss QAAP and design submittal issues.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Blvd., Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Connie Antonuk, ERRP Unit Leader, NCD - Rhinelander





file

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Wisconsin Rapids Area Headquarters
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George E. Meyer
Secretary

March 16, 1993

File Ref: 4440

Office of Director, Waste Management Division
United States Environmental Protection Agency
Attn: Margaret Guerriero, Remedial Project Manager (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, February, 1993 Final Remedial Design/Remedial Action

Dear Ms. Guerriero:

During the month of February, the only on-site activity was the water levels and groundwater sampling for the first operable unit (interim action) conducted on February 15 and 16, 1993. Wisconsin Department of Natural Resources (WDNR) staff did not oversee this activity.

WDNR reviewed the revised Pre-Design Investigation Report, the 60% Design Report, and associated supporting documents received from Conestoga-Rovers & Associates on January 29, 1993. Comments were submitted to EPA on March 2, 1993. A conference call must be arranged to discuss the issue of hazardous waste re-disposal as it relates to NR600, Wisconsin Administrative Code.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Blvd., Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Connie Antonuk, ERRP Unit Leader, NCD - Rhinelander

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State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

George E. Meyer
Secretary

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April 26, 1993

File Ref: 4440

Office of Director, Waste Management Division
United States Environmental Protection Agency
Attn: Margaret Guerriero, Remedial Project Manager (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, March, 1993 Final
Remedial Design/Remedial Action

Dear Ms. Guerriero:

During the month of March, there were no site activities requiring oversight Wisconsin Department of Natural Resources (WDNR) staff.

WDNR is currently reviewing the "Responses to 60% Remedial Design Comments" prepared and submitted by Conestoga-Rovers & Associates, and received on April 21, 1993.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Blvd., Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Connie Antonuk, ERRP Unit Leader, NCD - Rhinelander

File



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George E. Meyer
Secretary

May 21, 1993

File Ref: 4440

Office of Director, Waste Management Division
United States Environmental Protection Agency
Attn: Margaret Guerriero, Remedial Project Manager (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, April, 1993 Final
Remedial Design/Remedial Action

Dear Ms. Guerriero:

During the month of April, there were no site activities requiring oversight Wisconsin Department of Natural Resources (WDNR) staff.

WDNR reviewed the "Responses to 60% Remedial Design Comments" prepared and submitted by Conestoga-Rovers & Associates (CRA), and received on April 21, 1993. The WDNR had only one minor comment which was translated to EPA verbally.

WDNR is currently reviewing the Construction Quality Assurance Plan and the Health and Safety Plan prepared and submitted by CRA, and received April 29, 1993.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Blvd., Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Connie Antonuk, ERRP Unit Leader, NCD - Rhinelander



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

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George E. Meyer
Secretary

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June 17, 1993

File Ref: 4440

Office of Director, Waste Management Division
United States Environmental Protection Agency
Attn: Margaret Guerriero, Remedial Project Manager (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, May, 1993 Final
Remedial Design/Remedial Action

Dear Ms. Guerriero:

During the month of May, Conestoga-Rovers & Associates (CRA) conducted the quarterly groundwater monitoring. Wisconsin Department of Natural Resources (WDNR) oversight personnel were not on-site to oversee this monitoring event.

WDNR reviewed the Construction Quality Assurance Plan and the Health and Safety Plan prepared and submitted by CRA, and sent comments to USEPA on May 21, 1993.

WDNR is presently reviewing the Draft Final SVE Remedial Design Report and associated modeling and specifications, the monitoring program plan, and the Quality Assurance Project Plan, all prepared and submitted by Conestoga-Rovers & Associates (CRA), and received on April 28, April 28, and June 1, respectively.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Blvd., Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Connie Antonuk, ERRP Unit Leader, NCD - Rhineland



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George E. Meyer
Secretary

July 23, 1993

File Ref: 4440

Office of Director, Waste Management Division
United States Environmental Protection Agency
Attn: Margaret Guerriero, Remedial Project Manager (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, June, 1993 Final
Remedial Design/Remedial Action

Dear Ms. Guerriero:

During the month of June, there were no on-site activities requiring oversight by Wisconsin Department of Natural Resources (WDNR) oversight personnel.

WDNR reviewed the Draft Final Remedial Design Reports, the Monitoring Program Plan, and the Quality Assurance Project Plan prepared and submitted by Conestoga-Rovers & Associates (CRA). WDNR sent comments to USEPA on these documents on June 16 and June 30, 1993.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Blvd., Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Connie Antonuk, ERRP Unit Leader, NCD - Rhinelander



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George E. Meyer
Secretary

August 16, 1993

File Ref: 4440

Office of Director, Waste Management Division
United States Environmental Protection Agency
Attn: Margaret Guerriero, Remedial Project Manager (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, July, 1993 Final Remedial Design/Remedial Action

Dear Ms. Guerriero:

During the month of July, there were no on-site activities requiring oversight by Wisconsin Department of Natural Resources (WDNR) oversight personnel.

WDNR received the Final SVE Remedial Design Report and plan sheets prepared and submitted by Conestoga-Rovers & Associates (CRA) incorporating the responses to the agency comments dated June 16, 1993. The only outstanding issue is regarding the placement of contaminated soils back into the trenches. The WDNR is currently preparing a response to EPA's letter of June 29, 1993 on this issue.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Blvd., Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Connie Antonuk, ERRP Unit Leader, NCD - Rhineland

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George E. Meyer
Secretary

September 8, 1993

File Ref: 4440

Office of Director, Waste Management Division
United States Environmental Protection Agency
Attn: Margaret Guerriero, Remedial Project Manager (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, August, 1993 Final Remedial Design/Remedial Action

Dear Ms. Guerriero:

During the month of August, Don Grasser and Eric deVenecia, the new limited term oversight engineer, visited the site to observe the Interim Action sampling by the Marathon Electric employees and to familiarize Mr. deVenecia with site activities. No problems with the ongoing monitoring were observed.

WDNR reviewed the final Construction Quality Assurance Plan and the final Health and Safety Plan to assure that previous comments and revisions were incorporated. WDNR provided EPA with a verbal approval of these documents on August 24, 1993.

WDNR is currently awaiting responses to our comments on the Quality Assurance Project Plan and the Monitoring Program Plan.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Blvd., Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Connie Antonuk, ERRP Unit Leader, NCD - Rhinelander



George E. Meyer
Secretary

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October 6, 1993

File Ref: 4440

Office of Director, Waste Management Division
United States Environmental Protection Agency
Attn: Margaret Guerriero, Remedial Project Manager (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, September, 1993 Final Remedial Design/Remedial Action

Dear Ms. Guerriero:

During the month of September, there were no on-site activities requiring oversight by Wisconsin Department of Natural Resources (WDNR) personnel.

WDNR has reviewed the responses received September 17, 1993 by Conestoga-Rovers & Associates (CRA) to our comments on the Quality Assurance Project Plan (QAPP). WDNR sent its draft comments on these responses to EPA by VAX on October 5, 1993 so that specific outstanding issues can be discussed and resolved prior to final approval of the QAPP. WDNR is currently awaiting responses to our comments on the Monitoring Program Plan.

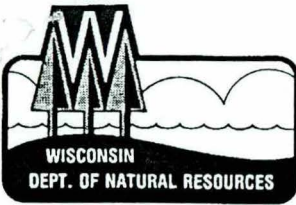
WDNR has been in contact with CRA regarding the SVE construction schedule. CRA is sending to the agencies the proposed schedule they received from the construction contractor, Layne-Northwest. Equipment mobilization and site preparations are to be conducted the week of October 11, with actual construction beginning October 18, starting with the SVE well drilling.

WDNR has prepared, and will be sending, a news release announcing the project start and proposed work. Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Blvd., Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Connie Antonuk, ERRP Unit Leader, NCD - Rhineland



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George E. Meyer
Secretary

November 12, 1993

File Ref: 4440

Office of Director, Waste Management Division
United States Environmental Protection Agency
Attn: Margaret Guerriero, Remedial Project Manager (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, October, 1993 Final
Remedial Design/Remedial Action

Dear Ms. Guerriero:

During the month of **October**, the final action soil vapor extraction work began. The Wisconsin Department of Natural Resources (WDNR) construction oversight engineer was on-site to oversee this work.

Please find attached the monthly status report for the Mid-State Landfill Superfund site for the month of **October**, 1993. The report summarizes the oversight activities conducted by Wisconsin Department of Natural Resources (WDNR) personnel as per the Letter of Agreement between EPA and WDNR dated December 21, 1990.

WDNR reviewed the responses received September 17, 1993 by Conestoga-Rovers & Associates (CRA) to our comments on the Quality Assurance Project Plan (QAPP). WDNR sent its final comments on these responses to EPA on October 20, 1993. WDNR is currently awaiting responses to our comments on the Monitoring Program Plan.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

ATTACHMENT

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Blvd., Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Connie Antonuk, ERRP Unit Leader, NCD - Rhinelander

**WAUSAU WATER SUPPLY NPL SITE, FINAL REMEDIAL ACTION MONTHLY STATUS
REPORT, OCTOBER, 1993**

Project Purpose

The final remedial action at the Wausau Water Supply NPL site includes installation of soil vapor extraction (SVE) systems in the west contamination plume area (Marathon Electric/Old City of Wausau Landfill) and the east contamination plume area (Wausau Chemical). The systems consist of extraction wells, equipment manholes for valves and monitoring, header piping, and the SVE equipment skids (e.g. comprised of the blowers, carbon units, etc.).

The purpose of the SVE systems is to remove the sources of contamination in the soils in the west and east contamination areas of this NPL site.

Project Oversight

The State of Wisconsin, Department of Natural Resources (WDNR) has entered into an agreement with the United States Environmental Protection Agency (EPA) to serve as the oversight contractor for the EPA on the Wausau Water Supply Interim Action as outlined in the Consent Decree between EPA, WDNR, and the Potentially Responsible Parties (PRPs) dated November 9, 1990, and a Letter of Agreement between EPA and WDNR dated December 21, 1990.

Project Status

The following is a list of the major project activities completed and the dates these activities were conducted and completed:

<u>Activity</u>	<u>Time Period</u>	<u>Completion Date</u>
-Construct SVE wells WC-SVE-3&4 and ME-SVE-2	October 14	October 14
-Construct SVE header piping and manholes for:		
ME-SVE-2	Oct. 26-27	Oct. 27
ME-SVE-1	Oct. 27-28	Oct. 28
WC-SVE-3	Nov. 1	Nov. 1
WC-SVE-4	Nov. 1-2	Nov. 2
WC-SVE-1	Nov. 2-	Piping ongoing
WC-SVE-2	Nov. 3-4	Nov. 4

Personnel On-site

1. Miles Phillips, the resident project manager, for Conestoga-Rovers & Associates (CRA), is on-site to coordinate all aspects of the construction.
2. Don Grasser, EPA oversight construction engineer with WI-DNR, is onsite to oversee the entire project for EPA. A daily written log is maintained, including photographic and camcording documentation. Eric deVenecia, oversight engineer at the Mid-State Landfill superfund site, was on-site on day to observe ongoing activities.
3. Layne Northwest Company, a Division of Layne Inc., Pewaukee, WI, is the primary contractor for the SVE system work. Mike Meindel, Chris Mixon, and Doug Jones were the drillers that installed the SVE wells WC-SVE-3&4 and ME-SVE-2 on October 14.
4. Sandra Trower, Layne Inc. of Kansas City, Kansas, is the on-site Health and Safety Officer for all activities conducted in October and November.
5. Michels Pipeline is the subcontractor responsible for installation of the SVE header pipes and equipment manholes. Dennis Luciani (foreman), Joseph Emery, Jeff Sturko and Curt Laabs, were on-site conducting this work. Dave Schananen, superintendent for Michels Pipeline, was also on-site on several occasions.
6. Joe Gehin and Dave Erickson, City of Wausau, were on-site on occasion to check on the status of the project.
7. Chris Kirschner, STS Consultants Ltd., was on-site to perform compaction testing on the soils backfilled in the SVE header pipes and equipment manholes.
8. REI Consultants were conducting a survey of all of the monitoring wells included in the long term monitoring program.

Schedule Changes and Explanations

1. The SVE header piping along the east side of the Wausau Chemical (WC) building from WC-SVE-1 to the SVE skid location was not completed as the contractor did not have the specified pipe insulation. This work is proposed to be completed the week of November 22, 1993.
2. The SVE equipment skids are proposed to be completed and arrive on-site the first week in December, 1993.

Problems Encountered & Resolutions

*Problem 1. The Michels Pipeline crew was not compacting bedding and backfill according the approved specifications and subsequently soils failed to meet the compaction testing requirements as documented by STS Consultants with a nuclear density meter.

*Resolution 1. Don Grasser informed Miles Phillips on numerous occasions that the Michels Pipeline crew was not following the backfilling and compaction specification and Miles subsequently discussed this with the Michels Pipeline foreman. For the most part backfilling lifts were too great (exceeding the one foot maximum by as much as 2 to 3 feet) and compaction with the vibratory hand compactor not frequent enough, resulting in poor compaction. In areas where there is overlying pavement, future settlement may result in settlement and damage to the pavement. This should be the responsibility of the contractor if damage occurs. There is no anticipated problem with pipe settlement as the bedding was for the most part pre-existing well-compacted material.

Departures from the Work Plan and other associated plans

As per Miles Phillips, CRA, all departures or modifications to the approved plans and specifications will be summarized and submitted in writing. The following departures or modifications were observed during oversight activities:

*Departure 1. The equipment manholes at the SVE wells are reinforced concrete rather than the specified corrugated metal pipe sections.

*Departure 2. The bedding material under the manholes was 1-2 inch washed, nonporous rock, rather than D.O.T. #3 spec. material.

*Departure 3. The steel or rubber sleeves around the SVE header pipe where they enter the manholes were eliminated as they were the incorrect size. The space between the pipe and manhole was instead sealed with Quik Dry cement as were the lifting holes.

*Departure 4. The pressure leak testing of the SVE header pipes was done using air rather than the specified water test.

*Departure 5. The header pipe from WC-SVE-2 to the SVE skid location was installed shallower than proposed due to possible interference from the Wausau Chemical pump and treat system. Due to the shallower depth, the piping was insulated with a insulated pipe sleeve.

*Departure 6. The compaction of backfill material was not done according to the specification, therefore, the required compaction densities were not always met.

Other Proposed Departures

1. The location of the SVE equipment skid at Wausau Chemical will be moved away from the building to allow for more room around the pre-existing stripping tower.

2. CRA has proposed to re-dispose of the Pre-design SVE well soil cuttings (ie. investigative derived waste, IDW). As per discussion with CRA and EPA, the WDNR construction oversight engineer has deferred the decision to the EPA Remedial Project Manager (RPM), as this proposal is not allowed by the State's ARAR NR600. EPA already waived this ARAR with regard to re-disposal of excavated soils during trenching for the SVE header piping. All soils excavated during the trenching were re-disposed simply by using it as backfill.

The oversight engineer has cited WDNR guidance on this issue which for the Superfund program references the EPA IDW guidance. The EPA guidance discretion to the project managers based on the potential threat by the material to human health and the environment. The soil cuttings from the Pre-Design study show low levels of VOCs (less than 10 units on the PID), according to Miles Phillips, CRA.

The EPA RPM has asked that the WDNR oversight engineer work with CRA to arrive at an acceptable method of placing the Pre-Design soil cuttings back on-site so that they will be treated by the SVE system (ie. within the area of influence of the SVE wells).

Summary

The project is ahead of schedule based on the most recent schedule, however, no time will be gained as the SVE equipment skids won't be on-site until the scheduled date.

The departures from the approved plans and specifications have been rectified and/or approved. The project is presently consistent with the remedial action plan and associated documents. The proposed departures are acceptable to WDNR, except for the compaction problems as noted above.

None of the problems, approved departures or proposed departures should adversely effect the intent, effectiveness, or purpose of this remedial action.

DRG:drg



George E. Meyer
Secretary

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Wisconsin Rapids Area Headquarters
1681 Second Ave. South
Wisconsin Rapids, WI 54495
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December 22, 1993

File Ref: 4440

Office of Director, Waste Management Division
United States Environmental Protection Agency
Attn: Margaret Guerriero, Remedial Project Manager (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, November, 1993 Final
Remedial Design/Remedial Action

Dear Ms. Guerriero:

During the month of November, the final action soil vapor extraction work continued. The Wisconsin Department of Natural Resources (WDNR) construction oversight engineer was on-site to oversee this work.

Please find attached the monthly status report for the Mid-State Landfill Superfund site for the month of November, 1993. The report summarizes the oversight activities conducted by Wisconsin Department of Natural Resources (WDNR) personnel as per the Letter of Agreement between EPA and WDNR dated December 21, 1990.

WDNR reviewed the responses received from Conestoga-Rovers & Associates (CRA) to our comments on the Monitoring Program Plan and discussed these responses with the EPA RPM prior to final approval.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Blvd., Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Connie Antonuk, ERRP Unit Leader, NCD - Rhinelander



WAUSAU WATER SUPPLY NPL SITE, FINAL REMEDIAL ACTION MONTHLY STATUS REPORT, NOVEMBER, 1993

Project Purpose

The final remedial action at the Wausau Water Supply NPL site includes installation of soil vapor extraction (SVE) systems in the west contamination plume area (Marathon Electric/Old City of Wausau Landfill) and the east contamination plume area (Wausau Chemical). The systems consist of extraction wells, equipment manholes for valves and monitoring, header piping, and the SVE equipment skids (e.g. comprised of the blowers, carbon units, etc.).

The purpose of the SVE systems is to remove the sources of contamination in the soils in the west and east contamination areas of this NPL site.

Project Oversight

The State of Wisconsin, Department of Natural Resources (WDNR) has entered into an agreement with the United States Environmental Protection Agency (EPA) to serve as the oversight contractor for the EPA on the Wausau Water Supply Interim Action as outlined in the Consent Decree between EPA, WDNR, and the Potentially Responsible Parties (PRPs) dated November 9, 1990, and a Letter of Agreement between EPA and WDNR dated December 21, 1990.

Project Status

The following is a list of the major project activities completed and the dates these activities were conducted and completed:

<u>Activity</u>	<u>Time Period</u>	<u>Completion Date</u>
-Construct SVE header piping and manholes for:		
WC-SVE-3	Nov. 1	Nov. 1
WC-SVE-4	Nov. 1-2	Nov. 2
WC-SVE-1	Nov. 2-30	Nov. 30
WC-SVE-2	Nov. 3-4	Nov. 4
-Mobilize and set-up for soil/gas probes	Nov. 30	Nov. 30

Personnel On-site

1. Miles Phillips, the resident project manager, for Conestoga-Rovers & Associates (CRA), is on-site to coordinate all aspects of the construction.

Pat Klick, geologist was on-site to oversee the soil/gas probe installations.

Dan Nelson, technician, was on-site to conduct the pre-SVE water elevation in monitoring wells and preparation for the start-up groundwater sampling (Round 1 of the long-term monitoring).

2. Don Grasser, EPA oversight construction engineer with WI-DNR, is onsite to oversee the entire project for EPA. A daily written log is maintained, including photographic and camcording documentation.
3. Layne Northwest Company, a Division of Layne Inc., Pewaukee, WI, is the primary contractor for the SVE system work.
4. Sandra Trower, Layne Inc. of Kansas City, Kansas, is the on-site Health and Safety Officer for all activities conducted through November 4.
5. Michels Pipeline is the subcontractor responsible for installation of the SVE header pipes and equipment manholes as well as the piping connections for the SVE system components. Dennis Luciani (foreman), Joseph Emery, Jeff Sturkol and Curt Laabs, were on-site conducting this work. Dave Schananen, superintendent for Michels Pipeline, was also on-site occasionally.
6. Dave Erickson, City of Wausau, was on-site on occasion to check on the status of the project.
7. Chris Kirschner, STS Consultants Ltd., was on-site to perform compaction testing on the

soils backfilled in the SVE header pipes and equipment manholes.

8. Thomas Redanz and Kyle of REI Consultants continued their survey of all of the monitoring wells included in the long term monitoring program.
9. Rolly Russel, Marathon Electric, assisted in locating monitoring wells for the first round of sampling and water level measurements.
10. Greg Gyles, Wisconsin Public Service, was on-site to locate electrical lines prior to the soil/gas probe installations.
11. Paul Bialzik and Greg Bialzik, Wester Electric, were on-site to install the electrical service lines to the SVE equipment houses at Marathon Electric and Wausau Chemical.
12. Larry Erdman, Chad Willemsen, and Keith Laszewski of WTD Environmental Drilling were on-site to conduct the installation of the soil/gas probes.

Schedule Changes and Explanations

1. The SVE equipment skids are proposed arrive on-site and be completed in December, 1993.
2. Miles Phillips informed the oversight engineer that the SVE systems startup date will be postponed to January 4, 1994, to better coincide with the soil/gas sampling. He had discussed this with the EPA RPM and received their approval. The post start-up soil gas sampling rounds (weekly for the first month) will begin on January 11.

Problems Encountered & Resolutions

*Problem 1. The Michels Pipeline crew was not compacting bedding and backfill according to the approved specifications and subsequently soils failed to meet the compaction testing requirements as documented by STS Consultants with a nuclear density meter.

*Resolution 1. Don Grasser informed Miles Phillips on numerous occasions that the Michels Pipeline crew was not following the backfilling and compaction specification and Miles subsequently discussed this with the Michels Pipeline foreman. For the most part backfilling lifts were too great (exceeding the one foot maximum by as much as 2 to 3 feet) and compaction with the vibratory hand compactor not frequent enough, resulting in poor compaction. In areas where there is overlying pavement, future settlement may result in settlement and damage to the pavement. This should be the responsibility of the contractor if damage occurs. There is no anticipated problem with pipe settlement as the bedding was for the most part pre-existing well-compacted material.

*Problem 2. On November 19, 1993, Margaret Guerriero, EPA, informed the WNDR oversight engineer that their congressional liaison was informed by Don Gebhardt of Senator Obey's office that they had been contacted by a citizen near the site complaining of the noise from heavy equipment. The WNDR oversight engineer asked for additional details because the only heavy equipment on-site was a small backhoe used for excavation of trenches and manhole installation.

This backhoe didn't make any more noise than semi-trucks which come in and out of Wausau Chemical and Marathon Electric on a daily basis. No other details were available, however, Margaret will check into this further.

On November 29, 1993, the WDNR oversight engineer visited Wally Mattson and Todd Lynn of Marathon Electric about the ongoing project activities. He inquired as to whether they had received any citizen complaints. They had received none, but did inform the oversight engineer that Marathon Electric has been conducting ongoing testing of generators for a client. These generators are powered by diesel engines outside which ran for days at a time and 24 hours a day. The engines do have mufflers, so they shouldn't be too loud. It would appear that the noise from this testing may likely have been the source of the citizen's complaint. The oversight engineer also asked Wally Mattson to relay our conversation to Dave Eisenrich, V.P. so he is aware of the complaint and our discussions, and he contacted the EPA RPM to inform her of these findings.

*Problem 3. In the course of taking water levels in the monitoring wells for the long term monitoring program, Dan Nelson, CRA, has been keeping an inventory of wells that cannot be found and wells that are in a state of disrepair, and therefore cannot be monitored.

*Resolution 3. CRA will be submitting the well inventory along with a proposal to repair or abandon monitoring wells. In addition, CRA and the WDNR oversight engineer, agreed on monitoring wells that will be substituted in the long-term monitoring program for the lost or broken wells.

Departures from the Work Plan and other associated plans

Miles Phillips, CRA, sent a written summary the departures or modifications to the approved plans and specifications to date. These departures and modifications were approved by the oversight engineer and will be sent with CRA's monthly report. The following departures or modifications were observed during oversight activities:

*Departure 1. The equipment manholes at the SVE wells are reinforced concrete rather than the specified corrugated metal pipe sections.

*Departure 2. The bedding material under the manholes was 1-2 inch washed, nonporous rock, rather than D.O.T. #3 spec. material.

*Departure 3. The steel or rubber sleeves around the SVE header pipe where they enter the manholes were eliminated as they were the incorrect size. The space between the pipe and manhole was instead sealed with Quik Dry cement as were the lifting holes.

*Departure 4. The pressure leak testing of the SVE header pipes was done using air rather than the specified water test.

*Departure 6. The compaction of backfill material in trenches and around manholes was not done according to the specification, therefore, the required compaction densities were not always met.

*Departure 7. Excess trench excavation material on the Marathon Electric side of the site were stockpiled on and covered with plastic. This material, consisting of boulders, soils, decomposed waste from the old landfill area showed no detections of volatile organic compounds when screened with an HNu meter on-site. These materials were subsequently loaded into dump trucks and hauled off site for disposal at the Tork Landfill in Wisconsin Rapids, Wisconsin.

Other Proposed Departures

1. CRA has proposed to re-dispose of the Pre-design SVE well soil cuttings (ie. investigative derived waste, IDW) on-site. As per discussion with CRA and EPA, the WDNR construction oversight engineer has deferred the decision to the EPA Remedial Project Manager (RPM), as this proposal is not allowed by the State's ARAR NR600. EPA already waived this ARAR with regard to re-disposal of excavated soils during trenching for the SVE header piping. All soils excavated during the trenching were re-disposed simply by using it as backfill.

The oversight engineer has cited WDNR guidance on this issue which for the Superfund program references the EPA IDW guidance. The EPA guidance discretion to the project managers based on the potential threat by the material to human health and the environment. The soil cuttings from the Pre-Design study show low levels of VOCs (less than 10 units on the PID), according to Miles Phillips, CRA.

The EPA RPM has asked that the WDNR oversight engineer work with CRA to arrive at an acceptable method of placing the Pre-Design soil cuttings back on-site in the respective plume areas from which they were derived so that they will be treated by the SVE systems (ie. within the area of influence of the SVE wells).

Summary

The project is somewhat behind schedule as the SVE equipment arrived late and the SVE systems start-up date has been postponed to January 4 to better coincide with the long term monitoring schedule.

The departures from the approved plans and specifications have been rectified and/or approved. The project is presently consistent with the remedial action plan and associated documents. The proposed departures are acceptable to WDNR, except for the compaction problems as noted above.

None of the problems, approved departures or proposed departures should adversely effect the intent, effectiveness, or purpose of this remedial action.

DRG:drg



George E. Meyer
Secretary

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Wisconsin Rapids Area Headquarters
1681 Second Ave. South
Wisconsin Rapids, WI 54495
TELEPHONE 715-421-7840
TELEFAX 715-421-7830

January 12, 1994

File Ref: 4440

Office of Director, Waste Management Division
United States Environmental Protection Agency
Attn: Margaret Guerriero, Remedial Project Manager (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, December, 1993 Final Remedial Design/Remedial Action

Dear Ms. Guerriero:

During the month of December, the final action soil vapor extraction work continued. The Wisconsin Department of Natural Resources (WDNR) construction oversight engineer was on-site to oversee this work.

Please find attached the monthly status report for the Wausau Water Supply Superfund site for the month of December, 1993. The report summarizes the oversight activities conducted by Wisconsin Department of Natural Resources (WDNR) personnel as per the Letter of Agreement between EPA and WDNR dated December 21, 1990.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

ATTACHMENTS

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Blvd., Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Connie Antonuk, ERRP Unit Leader, NCD - Rhinelander

**WAUSAU WATER SUPPLY NPL SITE, FINAL REMEDIAL ACTION MONTHLY STATUS REPORT,
DECEMBER, 1993**

Project Purpose

The final remedial action at the Wausau Water Supply NPL site includes installation of soil vapor extraction (SVE) systems in the west contamination plume area (Marathon Electric/Old City of Wausau Landfill) and the east contamination plume area (Wausau Chemical). The systems consist of extraction wells, equipment manholes for valves and monitoring, header piping, and the SVE equipment skids (e.g. comprised of the blowers, carbon units, etc.).

The purpose of the SVE systems is to remove the sources of contamination in the soils in the west and east contamination areas of this NPL site.

Project Oversight

The State of Wisconsin, Department of Natural Resources (WDNR) has entered into an agreement with the United States Environmental Protection Agency (EPA) to serve as the oversight contractor for the EPA on the Wausau Water Supply Interim Action as outlined in the Consent Decree between EPA, WDNR, and the Potentially Responsible Parties (PRPs) dated November 9, 1990, and a Letter of Agreement between EPA and WDNR dated December 21, 1990.

Project Status

The following is a list of the major project activities completed and the dates these activities were conducted and completed:

<u>Activity</u>		<u>Time Period</u>	<u>Completion Date</u>
-First round (pre-SVE start-up) groundwater monitoring program:	Water levels	Nov. 29	Nov. 30
	Sampling	Dec. 1	Dec. 10
-Soil/gas probe installation:	West side	Dec. 1	Dec. 8
	East side	Dec. 8	Dec. 13
-Soil/gas sampling and analyses on-site (pre-SVE start-up):	West side	Dec. 7	Dec. 8
	East side	Dec. 10	Dec. 30
-Soil sampling (pre-SVE start-up):	West side	Dec. 20	Dec. 30
	East side	Dec. 13	Dec. 18
-SVE electrical lines and hook-up		Nov. 30	Dec. 8
-SVE equipment installation:	West side	Dec. 3	Dec. 10
	East side	Nov. 30	Dec. 3

Personnel On-site

1. Miles Phillips, the resident project manager, for Conestoga-Rovers & Associates (CRA), is on-site to coordinate all aspects of the construction.

Pat Klick, geologist was on-site to oversee the soil/gas probe installations.

Dan Nelson, technician, was on-site to conduct the water elevation measurements and sampling for Round 1 of the long-term monitoring (i.e. pre-SVE start-up).

Chuck Cooke, Engineer, was on-site to conduct an overall inspection and assessment of the ongoing work for CRA.

2. Don Grasser, EPA oversight construction engineer with WI-DNR, is on-site to oversee the entire project for EPA. A daily written log is maintained, including photographic and camcording documentation.
3. Layne Northwest Company, a Division of Layne Inc., Pewaukee, WI, is the primary contractor for the SVE system work. Chris Mixon and Joe Sopko were on-site to assist with the installation and assembly of the SVE equipment and associated piping.
4. Pete Stile, DRC, was on-site and responsible for delivery and installation/assembly of the SVE skids and associated equipment.
5. Michels Pipeline is the subcontractor responsible for completing installation of the SVE header pipes

(including insulating exposed pipes), piping connections to the SVE skids, and installation/assembly of the SVE system components. Dennis Luciani (foreman) and Curt Laabs, were on-site conducting this work. Dave Schananen, superintendent for Michels Pipeline, was also on-site occasionally.

6. Dave Erickson, City of Wausau, was on-site on occasion to check on the status of the project. The City of Wausau also had three workers building the building that houses the west side SVE equipment.
7. Thomas Redanz and Kyle of REI Consultants continued their survey of all of the monitoring wells included in the long term monitoring program.
8. Rolly Russell, Marathon Electric, assisted in locating monitoring wells, and conducting water level measurements and sampling for the first round (pre-SVE start-up) of groundwater sampling.
9. Paul Bialzik and Greg Bialzik, Wester Electric, were on-site to install the electrical service lines to the SVE equipment houses at Marathon Electric and Wausau Chemical.
10. Larry Erdman, Perry Willemsen, Keith Laszewski, Randy Radtke, Chuck Blunt, Chad Willemsen, Mark Thuot, and/or Chad Hildebrandt, of WTD Environmental Drilling were on-site to conduct the installation of the soil/gas probes. Rick O'Gorman, Chad Willemsen, and/or Randy Radtke were on-site to conduct the pre-SVE start-up soil sampling for WTD.
11. Enviroscan Laboratory, Rothschild, WI, was responsible for conducting the soil/gas sampling and analyses. Doug Schubring and Hank Dymale conducted the sampling and Patrice Schaepe conducted the analyses in the mobile lab on-site.

Schedule Changes and Explanations

1. Miles Phillips informed the oversight engineer that the SVE systems start-up date will be postponed to January 4, 1994, to better coincide with the soil/gas sampling. He had discussed this with the EPA RPM and received their approval. The post start-up soil gas sampling rounds (weekly for the first month) will begin on January 11.

Problems Encountered & Resolutions

*Problem 1. In the course of taking water levels in the monitoring wells for the long term monitoring program, Dan Nelson, CRA, has been keeping an inventory of wells that cannot be found and wells that are in a state of disrepair, and therefore cannot be monitored.

*Resolution 2. CRA will be submitting the well inventory along with a proposal to repair or abandon monitoring wells. In addition, CRA and the WDNR oversight engineer agreed on Dec. 1, 1993 on monitoring wells that will be substituted in the long-term monitoring program for the lost or broken wells. These wells are as follows:

Zone 1 - MW13 for MW11 (not found), however, MW13 could not be found either so no substitute was made because all of the other wells closest to this area are already on the list.

MW25 and 25A could not be found and were reportedly abandoned according to Margaret Guerriero, EPA RPM.

In addition, during sampling it was determined that MW10A was inaccessible due to a bulge in the casing, therefore it could not be sampled.

Zone 2 - E23A for GM9S (not found), FVD5 for FVD7 (casing bent), and E21 for E27 (not found). Also, E37A was inaccessible but was subsequently repaired.

Zone 4 - MW5 (not found) for MW7.

*Problem 2. The Michels Pipeline crew was delayed during installation and assembly of the SVE equipment because they did not have detailed plans to follow, only a general equipment layout schematic.

*Resolution 2. Miles Phillips contacted Layne, Inc. and requested that they send a person on-site to direct the installation and assembly of the SVE equipment.

*Problem 3. There were several equipment installation problems as follows:

a. Michels Pipeline installed the shutoff valves at the east side SVE manifold 180 degrees off, installed the east side SVE manifold about two feet too low, and broke the SVE manifold on the west side. They also placed a carbon unit over WC-SVE-4 well which was subsequently moved.

b. The WTD drillers installed sampling caps on the soil/gas probes are just pushed on and not threaded or otherwise securely fastened. During soil/gas sampling many of the caps were pulling off and an alternative connection had to be made to assure legitimate soil/gas samples.

c. The flow meters for measuring air flow from individual SVE wells near the manifolds are not working properly.

*Resolution 3. Item a. has been resolved. Items b. and c. are outstanding items that need to be repaired.

*Problem 4. The WTD drillers experienced refusal of the auger during boring for the installation of some of the soil/gas probes. The depth was very close (e.g. 23.5 instead of 25) to the approved depth.

*Resolution 4. Miles Phillips, CRA, and the oversight engineer agreed to install the probe rather than abandoning the borehole and re-drilling since the depth was so close and shouldn't be significant.

Departures from the Work Plan and other associated plans

Miles Phillips, CRA, sent a written summary the departures or modifications to the approved plans and specifications to date. These departures and modifications were approved by the oversight engineer and will be sent with CRA's monthly report. The following departures or modifications were observed during oversight activities:

*Departure 1. Excess trench excavation material on the Marathon Electric side of the site from trenching associated with the electrical lines to the SVE building were stockpiled on and covered with plastic. This material, consisting of boulders, soils, decomposed waste from the old landfill area showed no detections of volatile organic compounds when screened with an HNu meter on-site. These materials were subsequently re-disposed on-site.

*Departure 2. Soil cuttings from the soil/gas probe boreholes were used as backfill in the borehole whenever possible to reduce the amount of material to be drummed and re-disposed on-site. Exceptions included soils with HNu PID detections and backfilling with these soils at the groundwater table (clean sand was used). Soil

cuttings with HNu PID detections or those generated after initial soil were re-disposed are in drums on-site and will be re-disposed in the Spring.

*Departure 3. CRA re-disposed of the Pre-design SVE well soil cuttings (i.e. investigative derived waste, IDW) and soil/gas probe boring cuttings on-site. As per discussion with CRA and EPA, the WDNR construction oversight engineer has deferred the decision to the EPA Remedial Project Manager (RPM), as this proposal is not allowed by the State's ARAR NR600. EPA already waived this ARAR with regard to re-disposal of excavated soils during trenching for the SVE header piping. All soils excavated during the trenching were re-disposed simply by using it as backfill.

The oversight engineer has cited WDNR guidance on this issue which for the Superfund program references the EPA IDW guidance. The EPA guidance discretion to the project managers based on the potential threat by the material to human health and the environment. The soil cuttings from the Pre-Design study showed low levels of VOCs (less than 10 units on the PID), according to Miles Phillips, CRA, and soils from the soil/gas probe installation had no detections on a PID.

The EPA RPM has asked that the WDNR oversight engineer work with CRA to arrive at an acceptable method of placing the Pre-Design soil cuttings back on-site in the respective plume areas from which they were derived so that they will be treated by the SVE systems (ie. within the area of influence of the SVE wells). These soils and the excess soil/gas probe boring cuttings were re-disposed within the area of influence of the respective SVE wells and covered with clean soils. Those generated after ground freeze-up were drummed and will be re-disposed on-site in the Spring.

*Departure 4. During pre-SVE start-up soil sampling, there were some problems with recovering a sample due to the material encountered. In those cases where a sample could not be collected at the specified depth, a sample was collected from within the next auger flight depth. If the next auger flight gets into the saturated zone however, a sample will not be collected because they had already collected the required saturated zone samples (5 on the east side and 5 on the west side for a total of 10 required).

Other Proposed Departures or Items of Discussion

1. Miles Phillips and I discussed the possibility of moving the annual groundwater sampling to November or even October to avoid having to sample during snow cover conditions when it is difficult to find flush mounted wells. We both agreed that this would be a good idea.

2. The sample canisters for the off-site soil/gas sample analyses arrived late and after the on-site samples were collected and analyzed. Enviroscan was going to collect samples from soil/gas probes for off-site analyses when the canisters arrived which would have been on a different day than the on-site samples were taken and analyzed. The oversight engineer expressed concern about this method because it would not result in a legitimate or good comparison which is the main purpose. Therefore, the soil/gas probes at Marathon Electric at which the off-site lab samples were collected were re-sampled for on-site analyses at the same time to assure a more accurate comparison.

3. The condensate water from the Wausau Chemical SVE unit will be pumped into the Wausau Chemical air stripper which subsequently discharges to the Wisconsin River. The condensate from the Marathon Electric SVE unit will be pumped through a wet carbon unit and subsequently surface discharged to a grated storm water manhole.

4. Doug Schubring noted that some hydrocarbons (e.g. benzene) were detected in one soil/gas probe near the electrical substation by the Marathon Electric foundry. In addition, he noted that they encountered soil/gas samples with HNu 10.2 ev PID readings of as high as 700 with corresponding readings on the mobile lab's FID

of 6000 ppb.

Summary

The project is somewhat behind schedule as the SVE equipment arrived late and the SVE systems start-up date has been postponed to January 4 to better coincide with the long term monitoring schedule.

The departures from the approved plans and specifications have been rectified and/or approved. The project is presently consistent with the remedial action plan and associated documents. The proposed departures are acceptable to WDNR. Some SVE equipment problems must be corrected as noted above. None of the problems, approved departures or proposed departures should adversely effect the intent, effectiveness, or purpose of this remedial action. However, the lack of flow meters for each well must be rectified soon so that the system can be properly balanced.

DRG:drg

file



George E. Meyer
Secretary

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Wisconsin Rapids Area Headquarters
1681 Second Ave. South
Wisconsin Rapids, WI 54495-4770
TELEPHONE (715) 421-7840
TELEFAX (715) 421-7830

February 15, 1994

Office of Director, Waste Management Division
United States Environmental Protection Agency
Attn: Margaret Guerriero, Remedial Project Manager (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, January, 1994
Final Remedial Design/Remedial Action

Dear Ms. Guerriero:

During the month of January, the final action soil vapor extraction work continued. The Wisconsin Department of Natural Resources (WDNR) construction oversight engineer was on-site to oversee this work.

Please find attached the monthly status report for the Wausau Water Supply Superfund site for the month of January, 1993. The report summarizes the oversight activities conducted by Wisconsin Department of Natural Resources (WDNR) personnel as per the Letter of Agreement between EPA and WDNR dated December 21, 1990.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

ATTACHMENTS

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Blvd., Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Connie Antonuk, ERRP Unit Leader, NCD - Rhinelander

**WAUSAU WATER SUPPLY NPL SITE, FINAL REMEDIAL ACTION MONTHLY STATUS REPORT,
JANUARY, 1994**

Project Purpose

The final remedial action at the Wausau Water Supply NPL site includes installation of soil vapor extraction (SVE) systems in the west contamination plume area (Marathon Electric/Old City of Wausau Landfill) and the east contamination plume area (Wausau Chemical). The systems consist of extraction wells, equipment manholes for valves and monitoring, header piping, and the SVE equipment skids (e.g. comprised of the blowers, carbon units, etc.).

The purpose of the SVE systems is to remove the sources of contamination in the soils in the west and east contamination areas of this NPL site.

Project Oversight

The State of Wisconsin, Department of Natural Resources (WDNR) has entered into an agreement with the United States Environmental Protection Agency (EPA) to serve as the oversight contractor for the EPA on the Wausau Water Supply Interim Action as outlined in the Consent Decree between EPA, WDNR, and the Potentially Responsible Parties (PRPs) dated November 9, 1990, and a Letter of Agreement between EPA and WDNR dated December 21, 1990.

Project Status

The following is a list of the major project activities completed and the dates these activities were conducted and completed:

<u>Activity</u>		<u>Time Period</u>	<u>Completion Date</u>
-SVE systems start-up:	West side	Jan. 4	Jan. 4
	East side	Jan. 5	Jan. 5
-Pressure readings by Hydro-Geo-Chem (pre/post start-up)		Jan. 4	Jan. 5
-Soil/gas sampling and analyses on-site by Enviroscan (post-SVE start-up):	West side	Jan. 4	Ongoing weekly for 1st mo.
	East side	Jan. 5	Ongoing weekly for 1st mo.
-Pre-final inspection and meeting (documents attached).		Jan. 24	Jan. 24

Personnel On-site

1. Miles Phillips, the resident project manager, for Conestoga-Rovers & Associates (CRA), is on-site to coordinate all aspects of the construction.

Chuck Cooke, CRA Engineer, was on-site to conduct an inspection of the SVE systems prior to start-up.

Brian Boevers, CRA, was on-site to attend the pre-final inspection and meeting.
2. Don Grasser, EPA oversight construction engineer with WI-DNR, is on-site to oversee the entire project for EPA. A daily written log is maintained, including photographic and camcording documentation.
3. Dave Erickson, City of Wausau, was on-site on occasion to check on the status of the project. The City of Wausau. He also attended the pre-final inspection and meeting.
4. Enviroscan Laboratory, Rothschild, WI, was responsible for conducting the soil/gas sampling and analyses. Doug Schubring and Hank Dymale conducted the sampling and Patrice Schaepe conducted the analyses in the mobile lab on-site.
5. Margaret Guerriero, EPA RPM, was on-site to attend the pre-final inspection and meeting.
6. A Layne-Northwest representative, the primary contractor, was on-site to install the final sampling ports.

Schedule Changes and Explanations

1. The SVE systems start-up date was postponed to January 4, 1994, to better coincide with the soil/gas sampling.

Problems Encountered & Resolutions

*Problem 1. Some equipment and work deficiencies (ie. punch list) were noted during the pre-final inspection on January 24, 1994. This equipment, to be installed in the near future, and work requiring completion are as follows:

- a. Flow meters at each well head at the manifold need to be installed.
- b. The auto dialer at the West side SVE house needs to be installed in the Spring when the ground thaws to allow installation of the wiring.
- c. The pavement over the trench in which electrical wires were installed to the West side SVE unit needs to be replaced.
- d. The remaining soil cuttings from soil/gas probe installations needs to be re-disposed on-site when ground thaws. All areas of re-disposal need to be re-vegetated.

NOTE: CRA informed the agencies that item a. will be done soon because individual meters will be required to balance the system SVE wells. The remaining items will be done in the Spring, however, all parties agreed that the other items need not be completed in order to proceed with the final report from CRA.

Departures from the Work Plan and other associated plans

*Departure 1. A total control valve was not installed at the manifold of the West side SVE system due to concerns about head losses.

Other Proposed Departures or Items of Discussion

1. All parties agreed that the annual groundwater sampling conducted in December will be moved up to coincide with the third quarter sampling round to avoid having to do this more comprehensive sampling during snow cover and freezing conditions when it is difficult to find and access flush mounted wells and the island.
2. The condensate water from the Wausau Chemical SVE unit will be pumped into the Wausau Chemical air stripper which subsequently discharges to the Wisconsin River. Don Grasser requested that the operation and maintenance of Wausau Chemical's groundwater pump and air stripping unit be incorporated into the project Operations and Maintenance plan to assure that it is coordinated with the East side SVE unit.

Outstanding Reports

- 1) Operations and Maintenance Plan.
- 2) Pre-final Inspection Report, due February 23.
- 3) Construction Completion Report. CRA will consider a memo for the pre-final report or using it as the draft construction completion report.
- 4) The post construction monthly progress reports will be submitted the same as previously including some data. The more detailed monitoring data and evaluation of this data will be submitted in a separate report at some interval such as 6 months.

Summary

The Wausau Water Supply SVE systems are up and running! Yeah!

The departures from the approved plans and specifications have been rectified and/or approved. The project is presently consistent with the remedial action plan and associated documents. The proposed departures are acceptable to WDNR. Some SVE equipment and site work deficiencies need to be completed as noted above, however, these items will not hold up submittal of the final report by CRA.

None of the problems, approved departures or proposed departures should adversely effect the intent, effectiveness, or purpose of this remedial action. The flow meters for each well must and will be installed as soon as possible so that the SVE systems can be properly balanced.

ATTACHMENTS

DRG:drg

Topics:

- A) System Components
- B) System Operation
- C) System Maintenance
- D) Exhaust Sampling

A) System Components

The components of each Site System are in general, the same. The differences being in the size of the blower and the number of wells. The major components are listed as follows:

- * Vapor extraction wells, each with a control valve and sample port at the wellhead.
- * Manifold, At the manifold each well line has a vacuum gauge, a sample port, a flow meter port and a control valve.
- * Total Flow Control Valve,
- * Condensate Remover and Water Tank
- * Air Bleed-In Valve
- * Water Pump,
- * Vacuum Blower
- * Vapor Phase Carbon Units
- * Controls, a control panel, circuit breakers, a temperature gauge, a total flow meter, a differential pressure switch and water level switches.

B) System Operation

The systems on both Sites are operated in the same manner. The start-up procedure is as follows:

- 1) Unlock the blower building and control panel
- 2) Confirm all Control valves (At the wellheads and inside the blower building) are fully open or set as desired
- 3) Confirm all piping connections to the carbon units are secure and complete

- 4) Open the control panel and switch the blower and water pump switches to OFF.
- 5) Switch all circuit breakers to ON.
There are four breakers, Two on the outside of the blower building and two on the inside.
- 6) Turn the water pump switch to AUTO, then turn the Blower switch to AUTO. This should start the blower.
- 7) Lock the control panel and blower building.

C) System Maintenance

The maintenance of the system will be covered in detail in the Operations and Maintenance Manual which will be published after the Final Inspection.

Currently, maintenance will consist of daily inspections and meter readings and will be performed by The Wausau PRP Group personnel. In the case of an operational shutdown or problem the Wausau PRP Group personnel shall inform CRA and if necessary, the contractor shall perform necessary maintenance.

D) Exhaust Sampling

Sampling of the systems vapor exhaust shall be conducted as specified in the Monitoring Program Plan. Monthly HNu readings of the exhaust shall be conducted by Wausau PRP Group Personnel. The reading shall be taken from the sample port located between the carbon vessels

Maintenance Inspection Form
Soil Vapor Extraction System

Ref No 3978

Date: _____

Time: _____

Name: _____

Site Location-Marathon Electric

Inspection Item:

Condition:

(Fill In Or Circle Correct Box)

Main Circuit Breaker (Outside)	x	Off	On
Panel Circuit Breaker (Outside)	x	Off	On
Blower Circuit Breaker (Inside)	x	Off	On
Water Pump Circuit Breaker (Inside)	x	Off	On
Locks Locked	Panel	Building	Other
Outside Piping Connections	x	Intact	Other
Saturation Tubes(Tues & Fri)	Purple	Brown	Black
Blower	x	On	Off
(If Blower is Off, Indicate Cause)	Diff. Pres.	W. Pump	Other
Temperature	x		F
Total Air Flow	x		CFM
Air Flow - Well 1	x		CFM
Air Flow - Well 2	x		CFM
Vacuum - Well 1	x		"H2O
Vacuum - Well 2	x		"H2O
Valve Position - Well 1	Full Open	Closed	Partial
Valve Position - Well 2	Full Open	Closed	Partial
Valve Position - Total Flow	Full Open	Closed	Partial
Valve Position - Bleed In Valve	Full Open	Closed	Partial
HNu Reading (Monthly)	x	x	

Miscellaneous Observations: (Explain all Items marked "Other")
Indicate Any Changes Made To System Controls

Maintenance Inspection Form
Soil Vapor Extraction System

Ref No 3978

Date: _____

Time: _____

Name: _____

Site Location-Wausau Chemical

Inspection Item:

Condition:

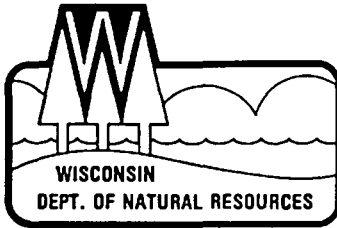
(Fill In Or Circle Correct Box)

Main Circuit Breaker (Outside)	<input checked="" type="checkbox"/>	Off	On
Panel Circuit Breaker (Outside)	<input checked="" type="checkbox"/>	Off	On
Blower Circuit Breaker (Inside)	<input checked="" type="checkbox"/>	Off	On
Water Pump Circuit Breaker (Inside)	<input checked="" type="checkbox"/>	Off	On
Locks Locked	Panel	Building	Other
Outside Piping Connections	<input checked="" type="checkbox"/>	Intact	Other
Saturation Tubes(Tues & Fri)	Purple	Brown	Black
Blower	<input checked="" type="checkbox"/>	On	Off
(If Blower is Off, Indicate Cause)	Diff. Pres.	W. Pump	Other
Temperature	<input checked="" type="checkbox"/>		F
Total Air Flow	<input checked="" type="checkbox"/>		CFM
Air Flow - Well 1	<input checked="" type="checkbox"/>		CFM
Air Flow - Well 2	<input checked="" type="checkbox"/>		CFM
Air Flow - Well 3	<input checked="" type="checkbox"/>		CFM
Air Flow - Well 4	<input checked="" type="checkbox"/>		CFM
Vacuum - Well 1	<input checked="" type="checkbox"/>		"H2O
Vacuum - Well 2	<input checked="" type="checkbox"/>		"H2O
Vacuum - Well 3	<input checked="" type="checkbox"/>		"H2O
Vacuum - Well 4	<input checked="" type="checkbox"/>		"H2O
Valve Position - Well 1	Full Open	Closed	Partial
Valve Position - Well 2	Full Open	Closed	Partial
Valve Position - Well 3	Full Open	Closed	Partial
Valve Position - Well 4	Full Open	Closed	Partial
Valve Position - Total Flow	Full Open	Closed	Partial
Valve Position - Bleed In Valve	Full Open	Closed	Partial
HNu Reading (Monthly)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Miscellaneous Observations: (Explain all Items marked "Other")

Indicate Any Changes Made To System Controls

File



George E. Meyer
Secretary

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Wisconsin Rapids Area Headquarters
1681 Second Ave. South
Wisconsin Rapids, WI 54495-4770
TELEPHONE (715) 421-7840
TELEFAX (715) 421-7830

March 10, 1994

Office of Director, Waste Management Division
United States Environmental Protection Agency
Attn: Margaret Guerriero, Remedial Project Manager (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, Feb., 1994
Final Remedial Design/Remedial Action

Dear Ms. Guerriero:

During the month of February, the soil vapor extraction system soil/gas monitoring continued. There was no work on-site requiring oversight by Wisconsin Department of Natural Resources (WDNR) personnel.

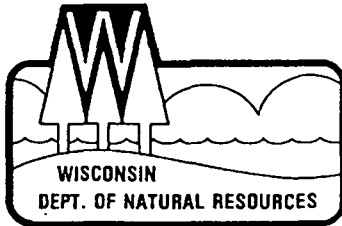
As we discussed on March 1, 1994, Mr. Bill Hickey with the University of Wisconsin Soils Department will be conducting soil borings to recover samples for a bio-remediation study for trichloroethylene. I contacted James Cherwinka, Wausau Chemical, and Miles Phillips, CRA Consultants, to inform them of the proposal and they didn't have a problem with the proposed study. Mr. Hickey is aware that he should communicate with Mr. Cherwinka regarding the date for sampling and other details. According to Miles Phillips, the area off of the southeast corner of the drum storage pad has the highest TCE levels and there are no SVE system pipes, therefore, this would be the best area to take samples. There is a gas line and possibly other utilities in that area that need to be located. I provided Mr. Hickey with this information.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Blvd., Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Connie Antonuk, ERRP Unit Leader, NCD - Rhinelander



George E. Meyer
Secretary

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April 20, 1994

Office of Director, Waste Management Division
United States Environmental Protection Agency
Attn: Margaret Guerriero, Remedial Project Manager (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, March, 1994
Final Remedial Design/Remedial Action

Dear Ms. Guerriero:

During the month of March, the final action soil vapor extraction system continued to operate. There was no work on-site requiring oversight by Wisconsin Department of Natural Resources (WDNR) personnel.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

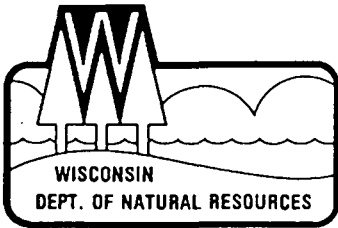
Donald R. Grasser, P.E.
Superfund Construction Engineer

ATTACHMENTS

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Blvd., Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Connie Antonuk, ERRP Unit Leader, NCD - Rhinelander



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George E. Meyer
Secretary

May 12, 1994

Office of Director, Waste Management Division
United States Environmental Protection Agency
Attn: Margaret Guerriero, Remedial Project Manager (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, April, 1994
Final Remedial Design/Remedial Action

Dear Ms. Guerriero:

During the month of April, the final action soil vapor extraction clean-up continued. There was no work on-site requiring Wisconsin Department of Natural Resources (WDNR) oversight. The construction oversight engineer will review the PRP's monthly progress reports to monitor the progress of the remaining "punch list" items noted during the pre-final inspection. A final inspection will be conducted after all items are completed to verify that all equipment is installed and operational.

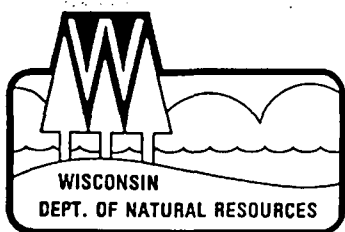
Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Blvd., Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Connie Antonuk, ERRP Unit Leader, NCD - Rhinelander

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George E. Meyer
Secretary

June 9, 1994

Office of Director, Waste Management Division
United States Environmental Protection Agency
Attn: Margaret Guerriero, Remedial Project Manager (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, May, 1994
Final Remedial Design/Remedial Action

Dear Ms. Guerriero:

During the month of May, the final action soil vapor extraction clean-up continued. The remaining "punch list" items noted by CRA during the pre-final inspection are being completed. Oversight of this work was deemed unnecessary by the Wisconsin Department of Natural Resources (WDNR) oversight personnel as it is relatively minor and straight forward. The construction oversight engineer will attend the final inspection meeting proposed for June 8, 1994 to assure that the remaining "punch list" items have been completed and are operational.

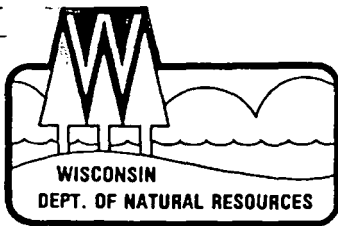
Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Blvd., Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Connie Antonuk, ERRP Unit Leader, NCD - Rhinelander

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George E. Meyer
Secretary

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July 21, 1994

Office of Director, Waste Management Division
United States Environmental Protection Agency
Attn: Margaret Guerriero, Remedial Project Manager (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, June, 1994
Final Remedial Design/Remedial Action

Dear Ms. Guerriero:

During the month of June, the final action soil vapor extraction clean-up continued. The remaining "punch list" items noted by CRA during the pre-final inspection were completed. The construction oversight engineer attended the final inspection meeting on June 8, 1994.

The WDNR reviewed the Draft Operations and Maintenance Manual submitted by CRA and received on June 8, 1994. Comments were submitted to EPA on July 6, 1994.

The oversight engineer was in contact with CRA personnel regarding submittal of the well construction and borehole abandonment forms required under NR141, Wisconsin Administrative Code.

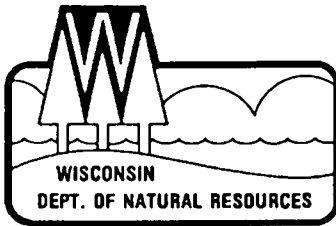
WDNR is currently working on the Oversight Final Report.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Blvd., Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Connie Antonuk, ERRP Unit Leader, NCD - Rhinelander



George E. Meyer
Secretary

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August 16, 1994

Office of Director, Waste Management Division
United States Environmental Protection Agency
Attn: Margaret Guerriero, Remedial Project Manager (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, July, 1994
Final Remedial Design/Remedial Action

Dear Ms. Guerriero:

During the month of July, the final action soil vapor extraction clean-up continued. There were no activities conducted on-site requiring oversight by WDNR personnel.

WDNR is currently working on the Oversight Final Report.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Blvd., Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Connie Antonuk, ERRP Unit Leader, NCD - Rhinelander



George E. Meyer
Secretary

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Wisconsin Rapids Area Headquarters
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TELEFAX (715) 421-7830

September 22, 1994

Office of Director, Waste Management Division
United States Environmental Protection Agency
Attn: Margaret Guerriero, Remedial Project Manager (HSRW-6J)
77 West Jackson Boulevard
Chicago, IL 60604-3590

SUBJECT: Wausau Water Supply NPL Site, Monthly Status Report, August, 1994
Final Remedial Design/Remedial Action

Dear Ms. Guerriero:

During the month of August, the final action soil vapor extraction clean-up continued. There were no activities conducted on-site requiring oversight by WDNR personnel.

On August 5, 1994, I was traveling past the Wausau Chemical site so I stopped to inspect the SVE system operation. The building was locked, the system was running, and everything appeared to be operating without problems.

Conestoga-Rovers and Associates (CRA) contacted the WDNR regarding the monitoring well repair and replacement inventory they conducted. According to Dan Nelson, CRA, W10A was repaired and will be re-surveyed by REI Surveyors. W10A did not have an alternative well for site monitoring, so it should be included into the site monitoring program again. It was originally proposed and approved for inclusion, but could not be sampled due to the damage. FVD 7 is bent, and therefore, needs to be cut off and flush mounted, according to Mr. Nelson.

WDNR is continuing to work on the RD/RA Oversight Final Report.

Please contact me at (715) 421-7840, if you have any questions or comments.

Sincerely,

Donald R. Grasser, P.E.
Superfund Construction Engineer

pc: Sue Coll, U.S. EPA, Region 5, 77 West Jackson Blvd., Chicago, IL 60604
Jane Lemcke, Superfund Unit Leader, SW/3 - Madison
Connie Antonuk, ERRP Unit Leader, NCD - Rhinelander
Wausau NPL Site File