

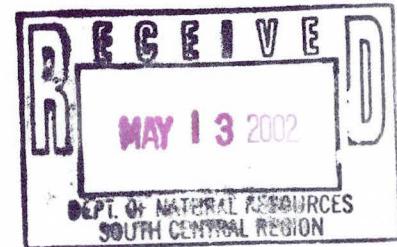
03-57-002801

02-57-001682

Reedsburg Cleaners

VIERBICHER ASSOCIATES, INC.

May 10, 2002



Mr. Randy Maass  
Remediation and Redevelopment Program  
Wisconsin Department of Natural Resources  
3911 Fish Hatchery Road  
Fitchburg, WI 53711

Re: Update to Remedial Action Options Report  
Reedsburg Cleaners  
349 E. Main Street, Reedsburg  
BRRTS # 03-57-002801  
02-57-001682

Dear Mr. Maass:

This letter is in response to our phone conversations on May 8, 2002 regarding the drilling of HRC injection points and the Remedial Action Options Report, submitted in March 2002.

I spoke with the blasting company, and they may not be comfortable drilling through the PCE contaminated soil and groundwater. They are currently not OSHA trained and may have difficulty dealing with contaminated waste. Therefore, we are assuming that a local environmental drilling firm would be installing the injection points.

The unconsolidated material would be drilled with a 4 1/4" HSA down to competent sandstone. The augers would be used as temporary casing to drill into the sandstone with a 3.5" air rotary bit. Once each boring has reached approximately 27 feet, a 3" SCH 40 PVC casing would be installed through the augers. As the augers are raised to the surface, the casing would be set in place. Each injection point would be covered with a 4" flush grade well cover. Drilling water would be containerized in 55 gallon drums. Approximately, 4-5 injection points would be installed per day. Once the HRC has been consumed within the aquifer (9-18 months), the injection points will be properly abandoned.

We still intend to utilize a tremie pipe to get the HRC solution into the bottom of the injection points. The HRC solution should fill up the injection point to within 7 feet of the surface. This ensures that the entire 10 feet of exposed groundwater, within each injection point, would be in contact with the HRC solution.

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▼ 6200 MINERAL POINT RD.  
MADISON, WI 53705-4504  
(608) 233-5800  
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▼ 1521 METRO DRIVE, SUITE 205  
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▼ P.O. BOX 542  
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Because of the need to utilize an environmental drilling firm to install the injection points, the cost to inject the HRC solution will increase. We anticipate the project cost shall increase about \$28,500.

I have enclosed a revised remediation cost summary table. The new estimated total cost to inject the HRC solution is \$67,500. The new estimated total cost to remediate the site is \$191,600.

Based on our phone conversation, I understand you intend to send out a letter approving the remedial plan soon. If you have any additional questions, feel free to contact me at (608) 233-5800.

Sincerely,  
VIERBICHER ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read "Joel L. Janssen", with a long horizontal line extending to the right.

Joel L. Janssen  
Hydrogeologist

JJ/las

Enclosure

cc: Wayne Butz, Reedsburg Cleaners

**TABLE 1  
REMEDIATION COST SUMMARY  
REEDBURG CLEANERS**

REMEDIATION ACTIVITY	CONSTRUCTION <sup>(1)</sup>	CONSULTING <sup>(2)</sup>	TOTAL
Install New Monitoring Well	\$2,000	\$800	\$2,800
Baseline Groundwater Sampling	\$2,200	\$2,300	\$4,500
Injection of HRC <sup>®</sup> Solution	\$52,000	\$15,500	\$67,500
Post-HRC <sup>®</sup> Application Monitoring (7 events)	\$17,000	\$8,800	\$25,800
Limited Soil Excavation <sup>(3)</sup>	\$24,800	\$2,800	\$27,600
Installation of SVE System	\$21,000	\$6,100	\$27,100
Operation & Maintenance of SVE System (2 years of operation)	\$4,400	\$9,200	\$13,600
Long Term Groundwater Monitoring (8 events)	\$12,200	\$10,500	\$22,700
<b>Totals</b>	<b>\$135,600</b>	<b>\$56,000</b>	<b>\$191,600</b>

Notes: (1) Construction costs include: drilling, lab, excavation, & remedial equipment, etc.

(2) Consulting costs include: oversight, reporting, & field equipment, etc.

(3) Excavation costs do not include removing, cleaning & disposing of the USTs, because these costs are not reimbursable.

Revised on May 10, 2002 to reflect a change in drilling procedures