

GROUNDWATER TECHNOLOGY

Groundwater Technology, Inc.

486 Gradle Drive, Carmel, IN 46032
Tel: (317) 843-0570 Fax: (317) 843-1059

August 9, 1993

Mr. Wayde Hartwick
U.S. EPA Region 5
HSRL-6J
77 West Jackson Blvd.
Chicago, IL 60604-3590

Dear Wayde,

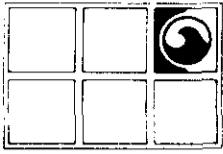
Attached please find the monthly progress report for activities at the Conrail Elkhart Indiana Rail Yard site's interim remedial action. Any questions on this submittal may be addressed by calling my office or contacting Mr. T.P. Pendergast at Conrail at (215) 209-1688.

Sincerely,

David Demko (aw)

David J. Demko, P.G.
Project Coordinator

cc: Tom Pendergast
Krista Eskilson



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**MONTHLY PROGRESS REPORT
FOR
INTERIM REMEDIAL ACTION FOR CONRAIL ELKHART RAIL YARD SITE
ELKHART, INDIANA**

Submitted to:
U.S. EPA Region 5
77 West Jackson Blvd.
Chicago, IL 60604

August 9, 1993

Prepared for:
Consolidated Rail Corporation
201 Market Street 3C
Philadelphia, PA 19101

Prepared by:
Groundwater Technology, Inc.
486 Gradle Drive
Carmel, IN 46032

Offices throughout the U.S., Canada and Overseas

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1.0 RD/RA ACTIONS

The following actions have been taken to comply with the Section 106 Unilateral Administrative Order that became effective August 6, 1992, for the Conrail Elkhart Rail Yard Site:

Alternate Water Supply

- Data accumulation 99% complete;
- Computer generated drawings underway;
- Field checking of edited mapping of all areas continuing;
- Continuing contact with utility companies;
- Further discussions with municipal officials; and,
- Continue where possible, 60% design activities.

Groundwater Extraction/Treatment System

- Preparation to conduct additional total suspended solids and total dissolved solids sampling;
- Prepare process flow diagrams; and,
- Tentatively scheduled field inspection for treatment facility siting.

2.0 DELIVERABLES

The following deliverables were submitted during the reporting period July 10 through August 10:

- Monthly progress report for June, 1993, reporting period;
- Revised 30% design basis reports for the groundwater extraction/treatment and alternate water supply systems; and,
- Preliminary analytical results for the 2nd quarter, 1993, residential sampling event to IDEM and EPA on July 21, 1993.

The following deliverables will be submitted during the next reporting period:

- Final analytical results for the 2nd quarter, 1993, residential sampling event to IDEM and EPA.
- Monthly progress report for July, 1993;

3.0 RECENT DATA/FINDINGS

Attached to this report are the final analytical results, data evaluation/validation report, and QA/QC data for the 2nd quarter, 1993, groundwater sampling event. Additionally, as stated in section 7.1 of the approved RD/RA Work Plan, maps are being finalized showing the zone of contamination based on the 2nd quarter

results, and will be submitted to EPA by Friday August 13, 1993.

Conrail has previously requested EPA to provide the data base used to generate Figure 2 of the ROD and Figure 1 of the SOW in an effort to update their data base and for baseline comparison with future quarterly results. To date, Conrail has not received this data base and requests the status of this request.

4.0 MODIFICATIONS TO WORK PLAN

1.) Additional Sampling

Additional sampling activities are required for completion of the 60% design of the groundwater extraction/treatment system as referred to in the 30% design basis (see section 6, page 2, last paragraph of 30% design report). The sampling involves collecting groundwater samples from residences located within the zone of contamination and analyzing the samples for total suspended solids (TSS), total dissolved solids (TDS), and pH. As presented in the design basis report, the TSS concentrations from the composite groundwater sample collected during pre-design study field activities from monitoring wells outlined in the EPA approved RD/RA Work Plan were higher in comparison to those attained at the end of the groundwater extraction pilot test. The purpose of this sampling program is a) to confirm TSS results from the end of the 72-hour groundwater extraction pilot pump test; and b) to determine TSS, TDS, and pH levels in operational residential wells located near proposed extraction well locations and in different areas of the zone of contamination to serve as a representative basis for dynamic TSS levels in proposed operational extraction wells. From this information, system start-up and long-term system operation filtration processes will be determined.

To provide the necessary data for the 60% design, a total of six residences have been chosen for sampling based on one or more of the following:

- Known well construction
- Location relative to the zone of contamination
- Location relative to proposed extraction well locations
- Location relative to monitoring wells sampled during pre-design studies
- Location within the residential area

The following is a list of the six residences chosen and the reason for their selection:

County Road 1 Area

- 1) 56880 CR-1
 - close proximity to proposed extraction well
 - known well construction
 - in zone of contamination in most upgradient area of CR-1 area
- 2) 56841 Southgate
 - close proximity to proposed extraction well
 - close proximity to monitoring well MW-2 sampled during pre-design studies
 - in zone of contamination in middle of CR-1 area
- 3) 56783 Burbank
 - in zone of contamination in most downgradient area of CR-1 area

Vistula Avenue Area

- 4) 10204 Vistula Ave.
 - close proximity to monitoring well MW-8 sampled during pre-design studies
 - in zone of contamination in most downgradient area of Vistula Ave. area
- 5) 56355 Ash Rd.
 - close proximity to proposed extraction well
- 6) 56447 CR-1
 - in zone of contamination in most upgradient area of CR-1 area

Samples will be collected immediately after the water pump prior to any filtration system such as a point of entry filter system, water softener, etc. Sample documentation, chain-of custody, and shipping procedures will conform to the EPA approved QAPP for RD/RA Work Plan. All samples will be shipped to the Groundwater Technology Environmental Laboratory (GTEL) in Concord, CA.

In addition to the TSS, TDS, and pH analyses, one sample from each residence will be collected and submitted for particle size distribution analysis. The purpose of these analyses is to aid in the selection of an appropriate filtration system, if required.

2) Modification of Groundwater and Residential Sampling Schedule

As outlined in the Statement of Work, sampling activities for the groundwater and residential monitoring programs for the above referenced site are to be conducted once per quarter. Currently, the sampling events for the groundwater monitoring program are scheduled during the later dates of February, May, August, and November of each year and the sampling events for the residential monitoring program are scheduled for the later dates of March, June, September, and December of each year.

It is Groundwater Technology's request to reschedule the groundwater and residential monitoring program sampling events so that they are conducted concurrently. This will result in:

- Increased cost effectiveness with regards to project management, scheduling, mobilization, coordination with EPA, etc.; and,
- Additional groundwater quality data at a specific point in time.

In order to preserve the basic residential monitoring schedule, the currently scheduled August 23 through 27 groundwater sampling event would, with your approval, be moved forward to September 13 through 17. The 3rd quarter residential sampling event would then be scheduled for September 13 and 14.

This matter has been discussed with IDEM project manager Krista Eskilson, who has no objections provided that the residential monitoring program remains on the same monthly schedule to ensure the protection of the public health and welfare.

3) Personnel Changes

Brian Smith (GTI Carmel, IN) has been named Health and Safety coordinator for the project. An updated organizational chart is attached.

5.0 POTENTIAL PROBLEMS

Final agreement with the City of Elkhart Water Utility concerning final design criteria has not been reached and remains as the primary concern in proceeding with the design of the alternate water supply system. Conrail's attempts to resolve these issues are documented in correspondences to affected persons and the EPA (all correspondences are copied to EPA) and in the summary of contacts provided below in Section 7.0.

6.0 PROJECTED WORK FOR FOLLOWING SIX WEEKS

The following activities are expected to be conducted for the next reporting period:

- Continue 60% design activities for the groundwater extraction/treatment and alternate water supply systems;
- Procure site access and conduct the 3rd quarter, 1993, sampling events for both the groundwater and residential monitoring programs;
- Conduct additional sampling as discussed in section 4.0;
- Preliminary siting of recovery wells and property acquisition; and,
- On-site inspection for treatment facility location.

7.0 SUMMARY OF CONTACTS

CONRAIL ELKHART YARD ALTERNATE WATER SYSTEM DESIGN CONTACTS WITH AFFECTED OFFICIALS

Date	Person/Office	Contact By	Reason for Contact/Discussion
7/2/93	Phil Miller/Bill Schlundt Mishawaka Utilities	Ken Jones	- Previous design criteria & review of files - Asked for information from private consultant files
7/2/93	Gary Gilot - Elkhart Water	Paul Farrington	- Placed call to discuss project status, left message
7/2/93	Mike Machlan Elkhart Water	Ken Jones	- Call regarding access to files, left message - Mike returned call, stated that Gary Gilot had not yet agreed
7/6/93	Gary Gilot	Ken Jones	- To encourage return calls to Conrail & GTI
7/19/93	Gary Gilot	Ken Jones	- Left message with secretary

Date	Person/Office	Contact By	Reason for Contact/Discussion
7/22/93	Jim Crook Mishawaka Utilities	Ken Jones	- Left message

**CONRAIL ELKHART YARD
GROUNDWATER EXTRACTION/TREATMENT DESIGN
CONTACT WITH AFFECTED OFFICIALS**

No contacts have been made with local or state government officials during the reporting period.

8.0 PERMITS

Status of permits for both the alternate water supply and groundwater extraction/treatment systems has not changed during this reporting period.