status

DOCUMENTATION OF ENVIRONMENTAL INDICATOR DETERMINATION Interim Final 2/5/99 RCRA Corrective Action Environmental Indicator (EI) RCRIS code (CA750) Migration of Contaminated Groundwater Under Control

Facility Name: PTC Alliance Corporation (Formerly Pittsburgh Tube Company)Facility Address: 533 Industrial Park Road, Jane Lew, West VirginiaFacility EPA ID #: WVD060692126

1. Has **all** available relevant/significant information on known and reasonably suspected releases to the groundwater media, subject to RCRA Corrective Action (e.g., from Solid Waste Management Units (SWMU), Regulated Units (RU), and Areas of Concern (AOC)), been **considered** in this EI determination?

| \bowtie | If yes - check here and continue with #2 below. |
|-----------|--|
| | If no - re-evaluate existing data, or |
| | if data are not available, skip to #8 and enter "IN" (more information needed) code. |

BACKGROUND

The Facility is located at 533 Industrial Park Road, Jane Lew, Lewis County, West Virginia. The 10.9 acre facility is bordered by Composite Pool Corporation to the North, Hackers Creek to the South East, County Route 7/8 to the West, and World Wide Equipment/Kenworth to the South.

PTC Alliance - Jane Lew Division was built in 1974 as part of the Pittsburgh Tube Company and began its operations in 1976. In 2001, Pittsburgh Tube Company merged with Alliance Midwest Tubular Products and formed PTC Alliance. The Facility is currently idle.

During operation, the Facility would receive steel tubes from other PTC Alliance facilities and then use that material as feedstock to produce drawn over mandrel (DOM) tubes. During the DOM process, surface preparation, pointing, cold drawing, annealing and finishing operations would be performed. After the DOM process, the tubes would go through finishing operations based on individual customer specifications.

Definition of Environmental Indicators (for the RCRA Corrective Action)

Environmental Indicators (EI) are measures being used by the RCRA Corrective Action program to go beyond programmatic activity measures (e.g., reports received and approved, etc.) to track changes in the quality of the environment. The two EI developed to-date indicate the quality of the environment in relation to current human exposures to contamination and the migration of contaminated groundwater. An EI for non-human (ecological) receptors is intended to be developed in the future.

Definition of "Migration of Contaminated Groundwater Under Control" EI

A positive "Migration of Contaminated Groundwater Under Control" EI determination ("YE" status code) indicates that the migration of "contaminated" groundwater has stabilized, and that monitoring will be conducted to confirm that contaminated groundwater remains within the original "area of contaminated groundwater" (for all groundwater "contamination" subject to RCRA corrective action at or from the identified facility (i.e., site-wide)).

Relationship of EI to Final Remedies

While Final remedies remain the long-term objective of the RCRA Corrective Action program the EI are near-term objectives which are currently being used as Program measures for the Government Performance and Results Act of 1993, (GPRA). The "Migration of Contaminated Groundwater Under Control" EI pertains ONLY to the physical migration (i.e., further spread) of contaminated ground water and contaminants within groundwater (e.g., non-aqueous phase liquids or NAPLs). Achieving this EI does not substitute for achieving other stabilization or final remedy requirements and expectations associated with sources of contamination and the need to restore, wherever practicable, contaminated groundwater to be suitable for its designated current and future uses.

Duration / Applicability of EI Determinations

EI Determinations status codes should remain in RCRIS national database ONLY as long as they remain true (i.e., RCRIS status codes must be changed when the regulatory authorities become aware of contrary information).

- 2. Is **groundwater** known or reasonably suspected to be **"contaminated"**¹ above appropriately protective "levels" (i.e., applicable promulgated standards, as well as other appropriate standards, guidelines, guidance, or criteria) from releases subject to RCRA Corrective Action, anywhere at, or from, the facility?
 - If yes continue after identifying key contaminants, citing appropriate "levels," and referencing supporting documentation.
 - If no skip to #8 and enter "YE" status code, after citing appropriate "levels," and referencing supporting documentation to demonstrate that groundwater is not "contaminated."

If unknown - skip to #8 and enter "IN" status code.

Rationale and Reference(s):

There are no longer any Solid Waste Management Units (SWMUs) associated with PTC Alliance – Jane Lew Division (formerly Pittsburgh Tube Company). PTC Alliance (Facility) used three lined surface impoundments to dispose of K062 (spent pickle liquor). From 1976 to 1984, the Facility used three surface impoundments for the settling of solids from the neutralized waste streams. The three impoundments were 100' by 75' by 6' deep, hypalon-lined, ponds which had an operating capacity of 117,000 gallons. During operation, treated effluent from the lift station, including injected coagulation aid polymer, were discharged into the first pond and retained for ten days where the bulk of the solids settled out. The effluent would then flow through cross over pipes into the second pond and retained for approximately ten days. These procedures would be repeated in the third pond. The total retention and settling time from start to finish was about thirty days. The supernatant would then flow into the wet well tank and then discharged by pumping into the Jane Lew Municipal sewage treatment system or circulated for reuse. The settled out solids would then be periodically removed and disposed of by an outside contractor.

The impoundments were closed under an interim status closure plan in 1987 and certified closed in March 1988. In September 1988, the Facility was issued a permit to operate four hazardous waste storage and treatment units, to conduct a five-year post-closure care, and to conduct groundwater monitoring at the closed impoundment.

In 1994, the four tanks used for hazardous waste storage, as permitted by the Facility's 1988 Part B Permit, were emptied and decontaminated. Two of the tanks, the Continuous Treatment Tank and the Lift Tank were subsequently taken out of service. The other two tanks, the Batch Tank and the Haulaway Tank, were returned to service. The Batch Tank became part of the non-hazardous wastewater treatment system and the Haulaway Tank began being used as a 90-day accumulation tank for hazardous waste.

In a memo to the file on June 17, 1999, then Permitting Program Manager G.S. Atwal stated that the Facility had "complied with the groundwater requirements as required by the Facility's Part B Permit issued on September 08, 1988". After a review of the groundwater monitoring data and subsequent statistical analysis of the data submitted by the Facility, the Hazardous Waste Permitting Unit concluded in an interoffice memo dated August 19, 2009 that, "based on the relatively low concentration of hazardous metals constituents and the low solubility of the precipitated metal hydroxides in the sludges that may have remained after the 1987 interim status closure, the Facility poses very little threat to human health and the environment and there is no need for future corrective action". Assistant Chief H. Michael Dorsey then issued Pittsburgh Tube Company a letter on September 29, 1999 stating that the "Office of Waste Management no longer considers the Jane Lew, West Virginia facility to be subject to the permitting or post-closure requirements of *40 CFR Parts 264 or 265* and, therefore, groundwater monitoring activities for those purpose are no longer necessary".

Footnotes:

"Contamination" and "contaminated" describes media containing contaminants (in any form, NAPL and/or dissolved, vapors, or solids, that are subject to RCRA) in concentrations in excess of appropriate "levels" (appropriate for the protection of the groundwater resource and its beneficial uses).

- 3. Has the **migration** of contaminated groundwater **stabilized** (such that contaminated groundwater is expected to remain within "existing area of contaminated groundwater"² as defined by the monitoring locations designated at the time of this determination)?
 - If yes continue, after presenting or referencing the physical evidence (e.g., groundwater sampling/measurement/migration barrier data) and rationale why contaminated groundwater is expected to remain within the (horizontal or vertical) dimensions of the "existing area of groundwater contamination"₂).
 - If no (contaminated groundwater is observed or expected to migrate beyond the designated locations defining the "existing area of groundwater contamination"₂) skip to #8 and enter "NO" status code, after providing an explanation.
 - If unknown skip to #8 and enter "IN" status code.

Rationale and Reference(s):

² "existing area of contaminated groundwater" is an area (with horizontal and vertical dimensions) that has been verifiably demonstrated to contain all relevant groundwater contamination for this determination, and is defined by designated (monitoring) locations proximate to the outer perimeter of "contamination" that can and will be sampled/tested in the future to physically verify that all "contaminated" groundwater remains within this area, and that the further migration of "contaminated" groundwater is not occurring. Reasonable allowances in the proximity of the monitoring locations are permissible to incorporate formal remedy decisions (i.e., including public participation) allowing a limited area for natural attenuation.

- 4. Does "contaminated" groundwater discharge into surface water bodies?
 - - If yes continue after identifying potentially affected surface water bodies.
 - If no - skip to #7 (and enter a "YE" status code in #8, if #7 = yes) after providing an explanation and/or referencing documentation supporting that groundwater "contamination" does not enter surface water bodies.
- If unknown skip to #8 and enter "IN" status code.

Rationale and Reference(s):

- 5. Is the **discharge** of "contaminated" groundwater into surface water likely to be "**insignificant**" (i.e., the maximum concentration³ of each contaminant discharging into surface water is less than 10 times their appropriate groundwater "level," and there are no other conditions (e.g., the nature, and number, of discharging contaminants, or environmental setting), which significantly increase the potential for unacceptable impacts to surface water, sediments, or eco-systems at these concentrations)?
 - If yes skip to #7 (and enter "YE" status code in #8 if #7 = yes), after documenting: 1) the maximum known or reasonably suspected concentration₃ of key contaminants discharged above their groundwater "level," the value of the appropriate "level(s)," and if there is evidence that the concentrations are increasing; and 2) provide a statement of professional judgement/explanation (or reference documentation) supporting that the discharge of groundwater contaminants into the surface water is not anticipated to have unacceptable impacts to the receiving surface water, sediments, or eco-system.
 - If no (the discharge of "contaminated" groundwater into surface water is potentially significant) continue after documenting: 1) the maximum known or reasonably suspected concentration₃ of each contaminant discharged above its groundwater "level," the value of the appropriate "level(s)," and if there is evidence that the concentrations are increasing; and 2) for any contaminants discharging into surface water in concentrations greater than 100 times their appropriate groundwater "levels," the estimated total amount (mass in kg/yr) of each of these contaminants that are being discharged (loaded) into the surface water body (at the time of the determination), and identify if there is evidence that the amount of discharging contaminants is increasing.

If unknown - enter "IN" status code in #8.

Rationale and Reference(s):

³ As measured in groundwater prior to entry to the groundwater-surface water/sediment interaction (e.g., hyporheic) zone.

6. Can the **discharge** of "contaminated" groundwater into surface water be shown to be "**currently acceptable**" (i.e., not cause impacts to surface water, sediments or eco-systems that should not be allowed to continue until a final remedy decision can be made and implemented₄)?

| If yes - continue after either: 1) identifying the Final Remedy decision incorporating |
|---|
| these conditions, or other site-specific criteria (developed for the protection of the |
| site's surface water, sediments, and eco-systems), and referencing supporting |
| documentation demonstrating that these criteria are not exceeded by the discharging groundwater; OR |
| 2) providing or referencing an interim-assessment ₅ , appropriate to the potential for |
| impact that shows the discharge of groundwater contaminants into the surface water is |
| (in the opinion of a trained specialists, including ecologist) adequately protective of |
| receiving surface water, sediments, and eco-systems, until such time when a full |
| assessment and final remedy decision can be made. Factors which should be considered |
| in the interim-assessment (where appropriate to help identify the impact associated with |
| discharging groundwater) include: surface water body size, flow, |
| use/classification/habitats and contaminant loading limits, other sources of surface |
| water/sediment contamination, surface water and sediment sample results and |
| comparisons to available and appropriate surface water and sediment "levels," as well as |
| any other factors, such as effects on ecological receptors (e.g., via bio-assays/benthic |
| surveys or site-specific ecological Risk Assessments), that the overseeing regulatory |
| agency would deem appropriate for making the EI determination. |
| |

- If no (the discharge of "contaminated" groundwater can not be shown to be "**currently acceptable**") skip to #8 and enter "NO" status code, after documenting the currently unacceptable impacts to the surface water body, sediments, and/or eco-systems.

If unknown - skip to 8 and enter "IN" status code.

Rationale and Reference(s):

⁴Note, because areas of inflowing groundwater can be critical habitats (e.g., nurseries or thermal refugia) for many species, appropriate specialist (e.g., ecologist) should be included in management decisions that could eliminate these areas by significantly altering or reversing groundwater flow pathways near surface water bodies.

⁵ The understanding of the impacts of contaminated groundwater discharges into surface water bodies is a rapidly developing field and reviewers are encouraged to look to the latest guidance for the appropriate methods and scale of demonstration to be reasonably certain that discharges are not causing currently unacceptable impacts to the surface waters, sediments or eco-systems.

- 7. Will groundwater **monitoring** / measurement data (and surface water/sediment/ecological data, as necessary) be collected in the future to verify that contaminated groundwater has remained within the horizontal (or vertical, as necessary) dimensions of the "existing area of contaminated groundwater?"
 - If yes continue after providing or citing documentation for planned activities or future sampling/measurement events. Specifically identify the well/measurement locations which will be tested in the future to verify the expectation (identified in #3) that groundwater contamination will not be migrating horizontally (or vertically, as necessary) beyond the "existing area of groundwater contamination."



If no - enter "NO" status code in #8.

If unknown - enter "IN" status code in #8.

Rationale and Reference(s):

- 8. Check the appropriate RCRIS status codes for the Migration of Contaminated Groundwater Under Control EI (event code CA750), and obtain Supervisor (or appropriate Manager) signature and date on the EI determination below (attach appropriate supporting documentation as well as a map of the facility).
- YE Yes, "Migration of Contaminated Groundwater Under Control" has been verified. Based on a review of the information contained in this EI determination, it has been determined that the "Migration of Contaminated Groundwater" is "Under Control" at PTC Alliance Jane Lew Division (formerly Pittsburgh Tube Company), EPA ID # WVD060692126, located at 533 Industrial Park Road, Jane Lew, West Virginia, 26378. Specifically, this determination indicates that the migration of "contaminated" groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the "existing area of contaminated groundwater" This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.
- NO Unacceptable migration of contaminated groundwater is observed or expected.
 - IN More information is needed to make a determination.

| Completed by | (signature) | SIGNED | Date <u>7/21/09</u> |
|--------------|-------------|------------------------------|---------------------|
| | (print) | Denis Zielinski | |
| | (title) | Senior RPM | |
| | | | |
| Supervisor | (signature) | Denis Zielinski SIGNED for | Date <u>7/29/09</u> |
| - | (print) | Luis Pizarro | |
| | (title) | Chief, Office of Remediation | |
| | (EPA Region | | |

Locations where References may be found:

 \square

US EPA Region III Waste & Chemicals Management Division 1650 Arch Street Philadelphia, PA 19103

Contact telephone and e-mail numbers (name) Denis M. Zielinski (phone #) 215-814-3431 (e-mail) zielinski.denis@epa.gov