DOCUMENTATION OF ENVIRONMENTAL INDICATOR DETERMINATION Interim Final 2/5/99 RCRA Corrective Action Environmental Indicator (EI) RCRIS code (CA725) Current Human Exposures Under Control

Facility Name:	Eltra Corporation (formerly Eltra Corporation, Prestolite Battery)
Facility Address:	4700 North 5th Street, Temple, PA 19560
Facility EPA ID #:	PAD 069 785 632

I. Has all available relevant/significant information on known and reasonably suspected releases to soil, groundwater, surface water/sediments, and air, 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?

X	If yes - check here and continue with #2 belo
<u></u>	If yes - check here and continue with #2 bei

If no - re-evaluate existing data, or

If data are not available skip to #6 and enter"IN" (more information needed) status code.

BACKGROUND 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 "Current Human Exposures Under Control" EI

A positive "Current Human Exposures Under Control" EI determination ("YE" status code) indicates that there are no "unacceptable" human exposures to "contamination" (i.e., contaminants in concentrations in excess of appropriate risk-based levels) that can be reasonably expected under current land- and groundwater-use conditions (for all "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 "Current Human Exposures Under Control" EI are for reasonably expected human exposures under current land- and groundwater-use conditions ONLY, and do not consider potential future land- or groundwater-use conditions or ecological receptors. The RCRA Corrective Action program's overall mission to protect human health and the environment requires that Final remedies address these issues (i.e., potential future human exposure scenarios, future land and groundwater uses, and ecological receptors).

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).

Are groundwater, soil, surface water, sediments, or air media known or reasonably suspected to be "contaminated" above appropriately protective risk-based "levels" (applicable promulgated standards, as well as other appropriate standards, guidelines, guidance, or criteria) from releases subject to RCRA Corrective Action (from SWMUs, RUs or AOCs)?

	Yes	<u>No</u>	<u>?</u>
Groundwater		Х	
Air (indoors) ²		х	
Surface Soil (e.g., <2 ft)		Х	
Surface Water		Х	
Sediment		Х	
Subsurf. Soil (e.g., >2 ft)		х	
Air (outdoors)		х	

Rationale / Key Contaminants

- If no (for all media) skip to #6, and enter "YE," status code after providing or citing Х appropriate "levels," and referencing sufficient supporting documentation demonstrating that these "levels" are not exceeded.
- If yes (for any media) continue after identifying key contaminants in each "contaminated" medium, citing appropriate "levels" (or provide an explanation for the determination that the medium could pose an unacceptable risk), and referencing supporting documentation.
- If unknown (for any media) skip to #6 and enter "IN" status code.

Rationale and Reference(s):

The facility close hazardous waste operations in 1986, under an approved plan by PADED There are no active SWMU, RU or AOC's at the facility that the available records suggest that require further investigation at this time.

Groundwater

As part of the 2003 RCRA grant PADEP completed the EI evaluation for the former Eltra Battery facility. In fact, PADEP recommended an "IN" status code in their draft environmental indicator determination, given the fact that groundwater was never sampled at the facility. Since PADEP has not sought authorization for RCRA Corrective Action, EPA continues to review and approve Final EI determinations.

For Eltra Battery, EPA believes that there is sufficient information to evaluate both the human health and groundwater. EPA has considered PADEP's position carefully. However, EPA believes that both environmental indicators are met at this facility¹. Our rational is explained below.

There are no groundwater monitoring data available for the site. The facility is currently used as warehouse and hazardous waste management, operated by the former owner, ceased in 1986. There are no known ongoing releases to groundwater nor EPA reasonably suspect that the groundwater is contaminated by past activities.

The available records indicate that the accidental releases of lead and ammonia did not have the potential to impact the groundwater at the site. There is no indication in the records that suggest that the facility had

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¹ While it is rare that EPA makes an affirmative determination without groundwater data, EPA holds that this facility is unique. EPA has concluded that the nature of the contaminant sources (ammonia and lead) and the extent of past cleanup activity obviate the need for any further investigation.

releases of any other constituent to the soil that would result in contamination of the ground water.

The recorded ammonia spill, a result of operator error, was estimated at 1,000 gallons and occurred in 1982 (PADEP EI report Appendix C-32). Ammonia a vapor under atmospheric conditions, evaporated as it was released. EPA believes that the ammonia released simply evaporated over time, minimizing its potential impact to the groundwater. Considering the properties of ammonia, low volume released, and the 21 years since the spill, EPA finds it is unlikely that this spill is a source of contamination to the ground water.

PADEP required the cleanup of four areas at site due to elevated lead concentrations (see PADEP EI report Appendix C-1). These areas were excavated to an average depth of 30 inches deep, for a total of 234 cubic yards of soil removed. The site investigation concluded that the contaminated soil was consistently 1 foot below the fill material, indicating that the native soils tended to control the vertical migration of lead (see PADEP EI Report Appendix C-1, section 5). This is consistent with EPA experience and recent studies on lead within the soil column migration. Confirmatory samples taken during the cleanup indicate soil lead levels are bellow the established soil-to-groundwater standard.

Air (indoors/outdoors)

There are no current sources of air releases at the facility

Surface/Subsurface Soils

There were a few area at facility was subject to remediation activities to remove contaminated soil contaminate with lead (See PADEP EI report Appendix C-1 PADEP). These areas were excavated to general depth of 3 feet deep, for a total of 234 cubic yards. Based on the analytical results a the final depth of excavation contaminated soil with lead concentration above 500 mg/kg were removed from the subject areas.

Surface water/Sediment

There are no active source of releases to surface water/sediments. During its active life the facility operated a wastewater treatment plant which discharged to the POTW, not impacting nearby surface water/sediments.

Footnotes:

¹ "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 appropriately protective risk-based "levels" (for the media, that identify risks within the acceptable risk range).

²Recent evidence (from the Colorado Dept. of Public Health and Environment, and others) suggest that unacceptable indoor air concentrations are more common in structures above groundwater with volatile contaminants than previously believed. This is a rapidly developing field and reviewers are encouraged to look to the latest guidance for the appropriate methods and scale of demonstration necessary to be reasonably certain that indoor air (in structures located above (and adjacent to) groundwater with volatile contaminants) does not present unacceptable risks.

3.

Are there **complete pathways** between "contamination" and human receptors such that exposures can be reasonably expected under the current (land- and groundwater-use) conditions?

Summary Exposure Pathway Evaluation Table

Potential Human Receptors (Under Current Conditions)

"Contaminated" Media	Residents	Workers	Day-Care	Construction 7	respassers	Recreation	Food ³
Groundwater							
Air (indoors)							
Soil (surface, e.g., <2 ft)							
Surface Water							
Sediment							
Soil (subsurface e.g., >2 ft)							
Air (outdoors)							

Instructions for Summary Exposure Pathway Evaluation Table:

1. Strike-out specific Media including Human Receptors' spaces for Media which are not "contaminated" as identified in #2 above.

2. Enter "yes" or "no" for potential "completeness" under each "Contaminated" Media -- Human Receptor combination (Pathway).

Note: In order to focus the evaluation to the most probable combinations, some potential "Contaminated" Media - Human Receptor combinations (Pathways) do not have check spaces ("____"). While these combinations may not be probable in most situations they may be possible in some settings and should be added as necessary.

If no (pathways are not complete for any contaminated media-receptor combination) skip to #6, and enter "YE" status code, after explaining and/or referencing condition(s) in-place, whether natural or man-made, preventing a complete exposure pathway from each contaminated medium (e.g., use optional <u>Pathway Evaluation Work Sheet</u> to analyze major pathways).

If yes (pathways are complete for any "Contaminated" Media - Human Receptor — combination) - continue after providing supporting explanation.

If unknown (for any "Contaminated" Media - Human Receptor combination) - skip to #6 and enter "IN" status code.

Rationale and Reference(s):

³ Indirect Pathway/Receptor (e.g., vegetables, fruits, crops, meat and dairy products, fish, shellfish, etc.)

Can the exposures from any of the complete pathways identified in #3 be reasonably expected to be "significant"⁴ (i.e., potentially "unacceptable" because exposures can be reasonably expected to be: 1) greater in magnitude (intensity, frequency and/or duration) than assumed in the derivation of the acceptable "levels" (used to identify the "contamination"); or 2) the combination of exposure magnitude (perhaps even though low) and contaminant concentrations (which may be substantially above the acceptable "levels") could result in greater than acceptable risks)?

> If no (exposures can not be reasonably expected to be significant (i.e., potentially "unacceptable") for any complete exposure pathway) - skip to #6 and enter "YE" status code after explaining and/or referencing documentation justifying why the exposures (from each of the complete pathways) to "contamination" (identified in #3) are not expected to be "significant."

If yes (exposures could be reasonably expected to be "significant" (i.e., potentially "unacceptable") for any complete exposure pathway) - continue after providing a description (of each potentially "unacceptable" exposure pathway) and explaining and/or referencing documentation justifying why the exposures (from each of the remaining complete pathways) to "contamination" (identified in #3) are not expected to be "significant."

If unknown (for any complete pathway) - skip to #6 and enter "IN" status code.

Rationale and Reference(s):

4 If there is any question on whether the identified exposures are "significant" (i.e., potentially "unacceptable") consult a human health Risk Assessment specialist with appropriate education, training and experience.

4.

5. Can the "significant" exposures (identified in #4) be shown to be within acceptable limits?

If yes (all "significant" exposures have been shown to be within acceptable limits) continue and enter "YE" after summarizing <u>and</u> referencing documentation justifying why all "significant" exposures to "contamination" are within acceptable limits (e.g., a sitespecific Human Health Risk Assessment).

If no (there are current exposures that can be reasonably expected to be "unacceptable")continue and enter "NO" status code after providing a description of each potentially "unacceptable" exposure.

_____ If unknown (for any potentially "unacceptable" exposure) - continue and enter "IN" status code.

Rationale and Reference(s):

Check the appropriate RCRIS status codes for the Current Human Exposures Under Control EI event code (CA725), and obtain Supervisor (or appropriate Manager) signature and date on the EI determination below (and attach appropriate supporting documentation as well as a map of the facility):

YE - Yes, "Current Human Exposures Under Control" has been verified. Based on a review of the information contained in this EI Determination, "Current Human Exposures" are expected to be "Under Control" at the Eltra Corporation facility, EPA ID # PAD 069 785 632, located at Temple, Pennsylvania under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

NO - "Current Human Exposures" are NOT "Under Control."

IN - More information is needed to make a determination.

Completed by

Date 1126/04

Luis Plzarro Environmental Engineer

Supervisor

Gotthold

PA Operations Branch WCMD EPA Region III

Date 1-30-

Locations where References may be found:

EPA Region III WCMD Record Center & PADEP's Harrisburg Office

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FINAL NOTE: THE HUMAN EXPOSURES EI IS A QUALITATIVE SCREENING OF EXPOSURES AND THE DETERMINATIONS WITHIN THIS DOCUMENT SHOULD NOT BE USED AS THE SOLE BASIS FOR RESTRICTING THE SCOPE OF MORE DETAILED (E.G., SITE-SPECIFIC) ASSESSMENTS OF RISK.

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