

Project Overview

Academic Year Industrial Assessment

Name: Ben Stewart

Major: Civil Engineering

School: University of Nebraska – Lincoln



Company Background

WasteCap Nebraska is a non-profit environmental organization that assists businesses trying to be more environmentally friendly. Through networking, program development, education, and assessments, WasteCap Nebraska can provide a wide range of resources and guidance to Nebraska businesses. Collaboration between P3 and WasteCap provided for hands-on technical assistance to businesses during the academic year (Fall 2007-Spring 2008) for the first time.

Project Description

P3 Intern Benjamin Stewart performed waste assessments at area businesses to reduce waste and natural resource use. Solid waste and compressed air assessments at Teledyne Isco, Inc. of Lincoln and a solid-waste and water recycling assessment at Telesis Inc. in Lincoln were performed. A gun-powder recycling research project was also completed for Hornady Manufacturing of Grand Island, NE. Although a solution for Hornady was discovered during research, it did not reveal any benefits at this time. The benefits reported for Hornady are hypothetical, based on potential savings if the discovered technology becomes available.

Pollution Prevention Benefits

The table below presents the recommendations made for each company and their corresponding environmental benefit and potential savings.

Table 1. Summary of Recommendations and Potential Savings

Waste	Amount Reduced	Implementation Costs	Annual Savings
Teledyne Isco, Inc.			
<i>Solid Waste</i>	28,325 lbs	\$600	\$299
<i>Electricity (from improvements to compressed air system)</i>	12,900 kWh	\$360	\$270
Telesis Inc.			
<i>Solid Waste</i>	134 lbs	\$134	\$440
Hornady Manufacturing			
<i>Hazardous Waste</i>	2,000 lb	N/A	\$9,000