# IDX FALL 2015

MICRONIZED WOOD PRODUCT PLANT AT HERMANN BROTHERS

#### INTRODUCTION TO SCHEMATIC DESIGN













### INTRODUCTION

#### **PRODUCT**









### INTRODUCTION

#### **SITE LOCATION**





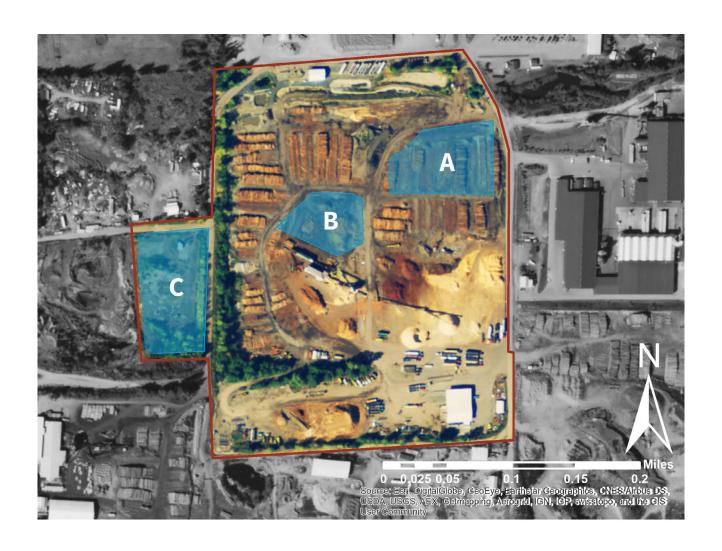






### INTRODUCTION

#### **ON-SITE ANALYSIS**

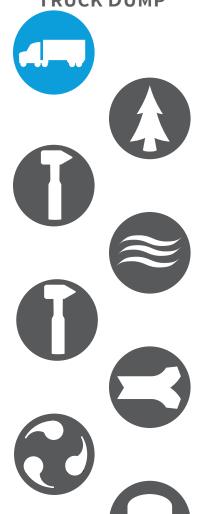








#### **TRUCK DUMP**













**FEEDSTOCK** 













**HAMMERMILL** 



















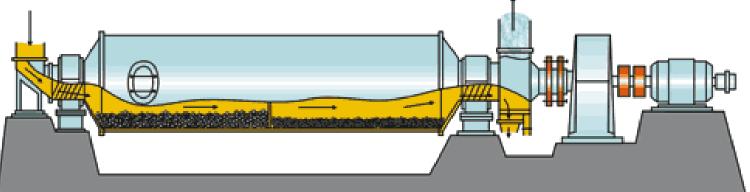






**ROTARY DRYER** 











**HAMMERMILL** 

















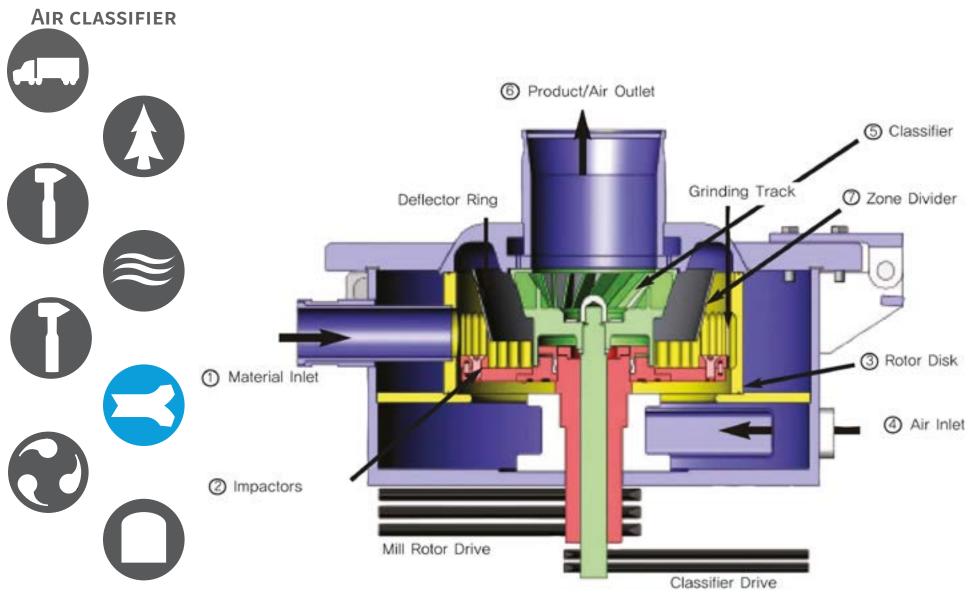








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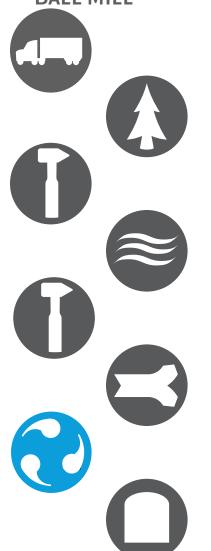


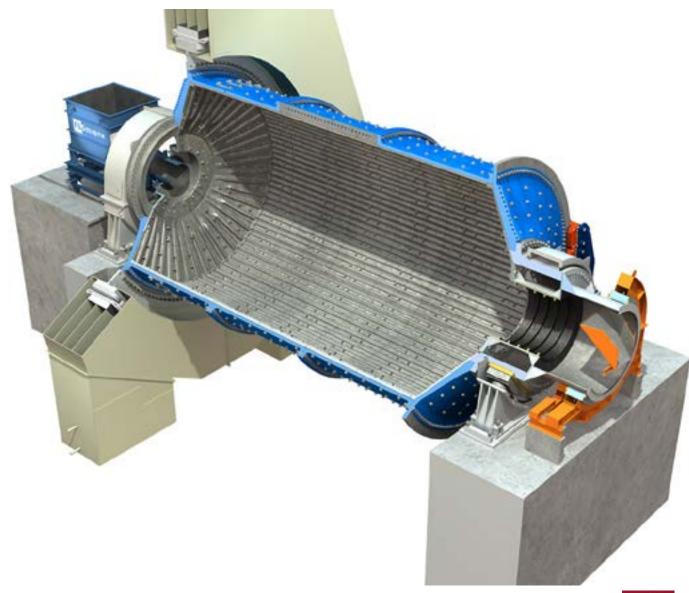






BALL MILL

























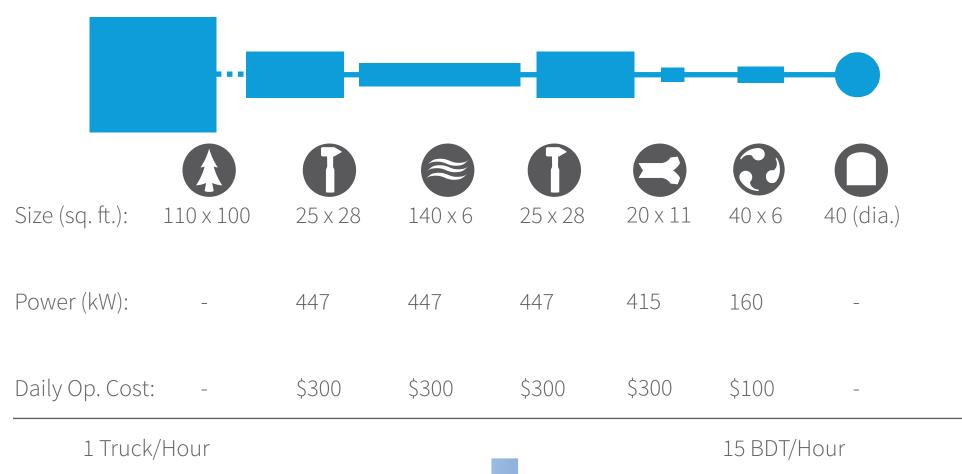








#### **EQUIPMENT INFORMATION**



## INPUT

100,000 Green Tons/Year

## OUTPUT

50,000 BDT/Year







REASONING, TOPOGRAPHY, UTILITIES, & FLOW















REASONING, TOPOGRAPHY, UTILITIES, & FLOW



















REASONING, TOPOGRAPHY, UTILITIES, & FLOW



**EASONING** 

INTRODUCTION & CURRENT USAGE



CONSTRUCTABILITY & SITE WORK



**TILITIES** 

**EASE OF INSTALLATION & PROXIMITY** 











REASONING, TOPOGRAPHY, UTILITIES, & FLOW



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REASONING, TOPOGRAPHY, UTILITIES, & FLOW



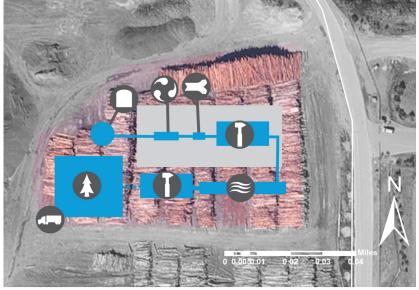
INTRODUCTION & CURRENT USAGE

OPOGRAPHY
CONSTRUCTABILITY & SITE WORK













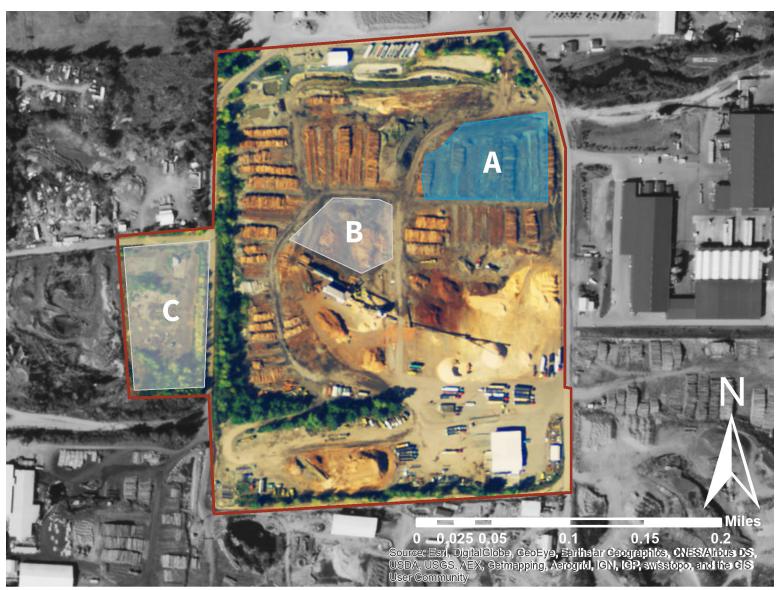
## SITE A REASONING



















## **SITE A**

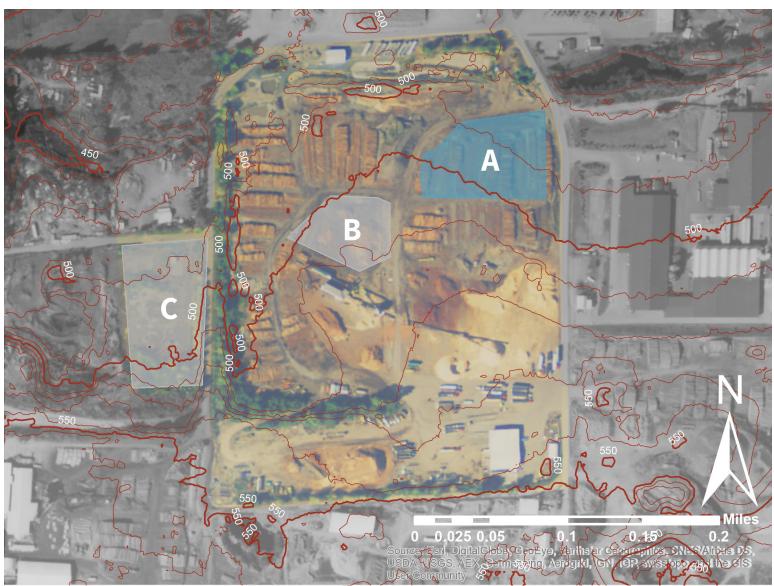
#### **TOPOGRAPHY**



















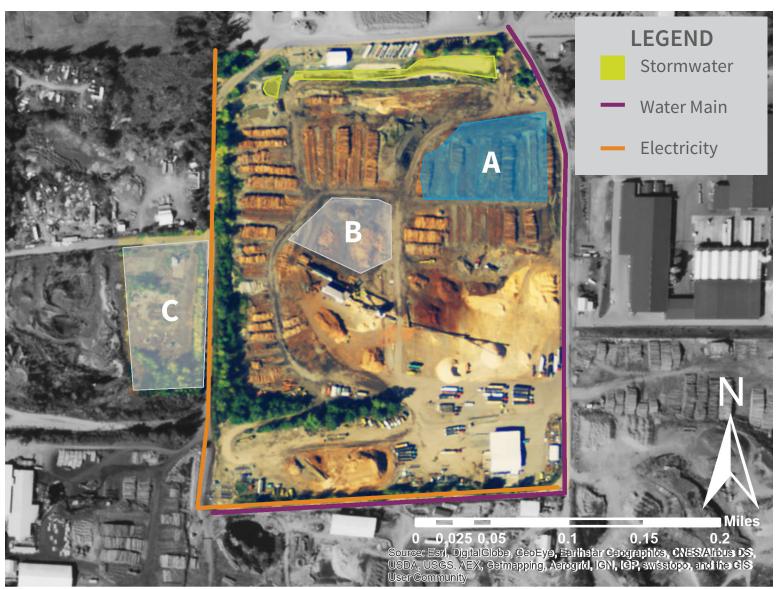
## SITE A UTILITIES



















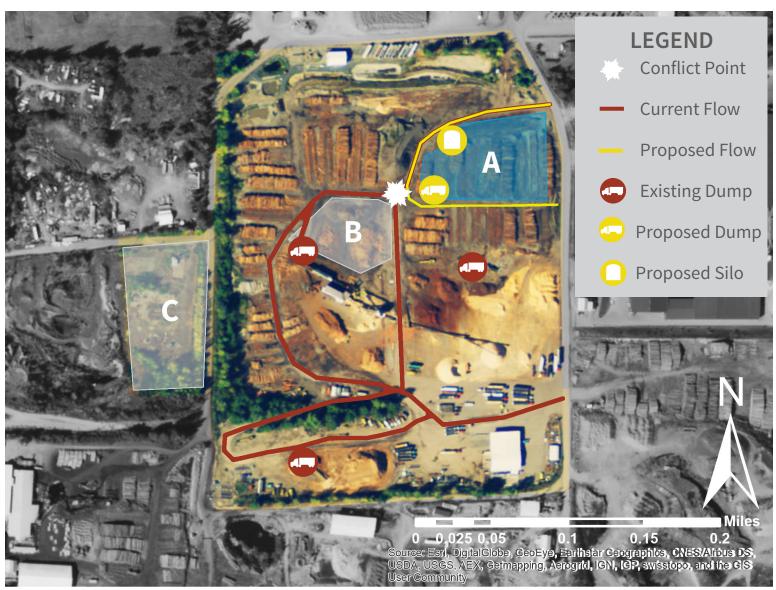
### SITE A FLOW



















## SITE A FLOW



















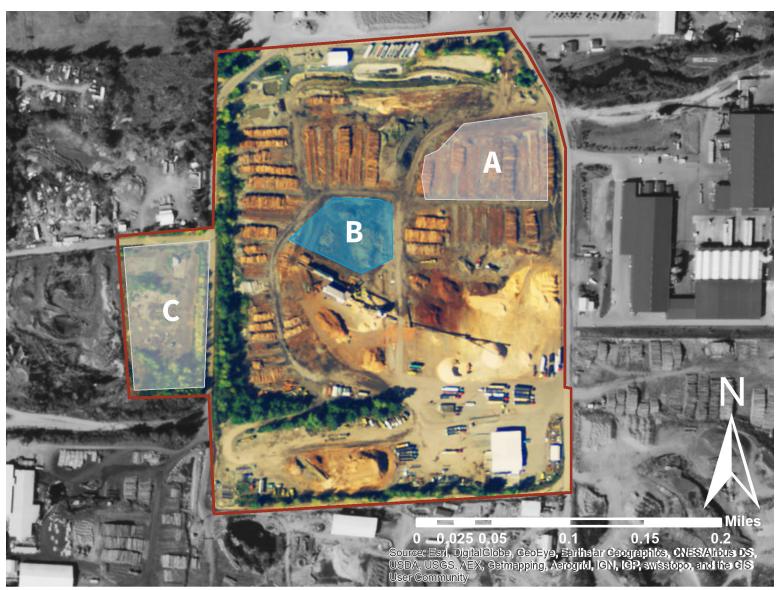
## SITE B REASONING



















## **SITE B**

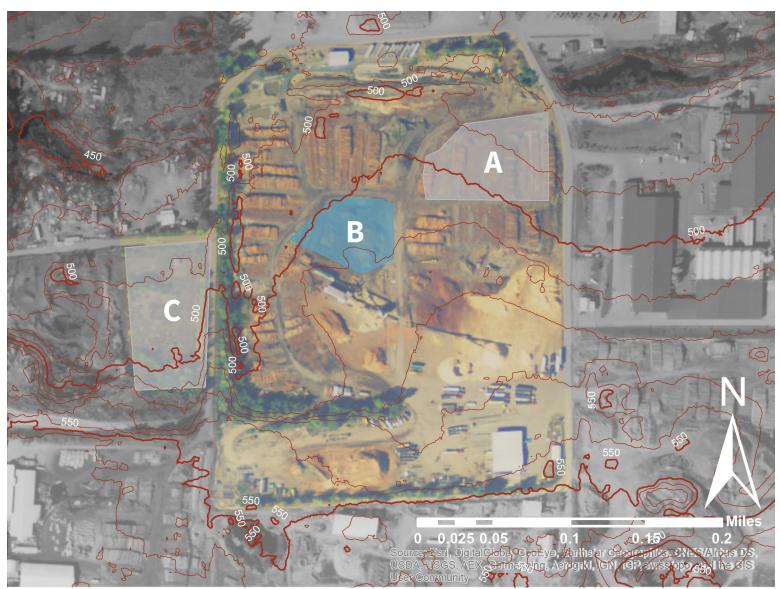
#### **TOPOGRAPHY**



















## SITE B UTILITIES



















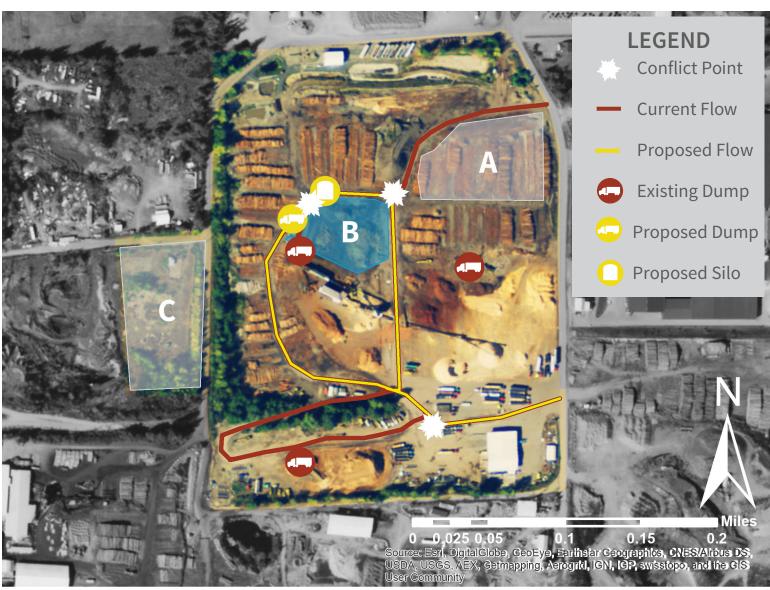
### SITE B FLOW



















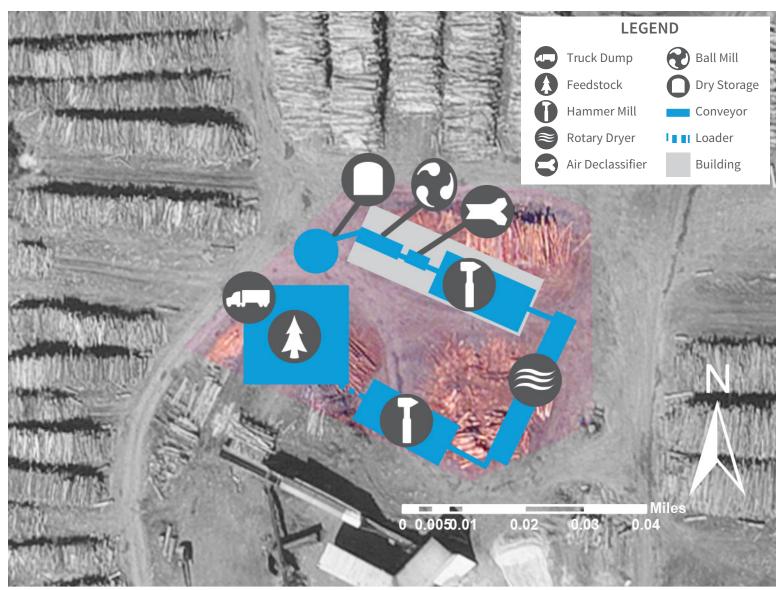
## SITE B FLOW



















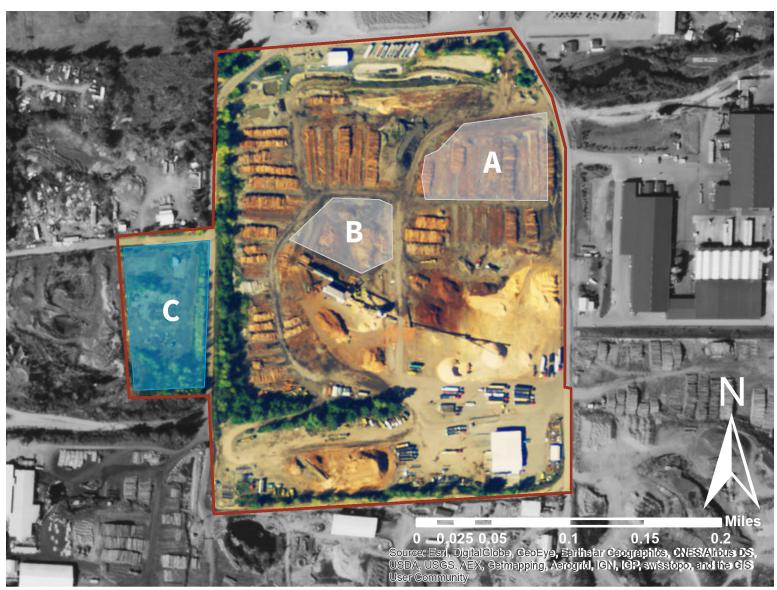
## SITE C REASONING



















## SITE C

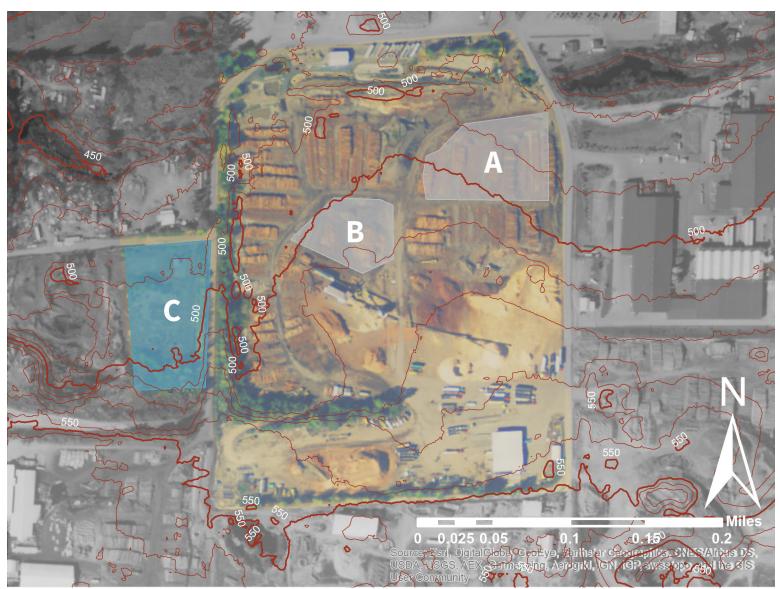
#### **TOPOGRAPHY**



















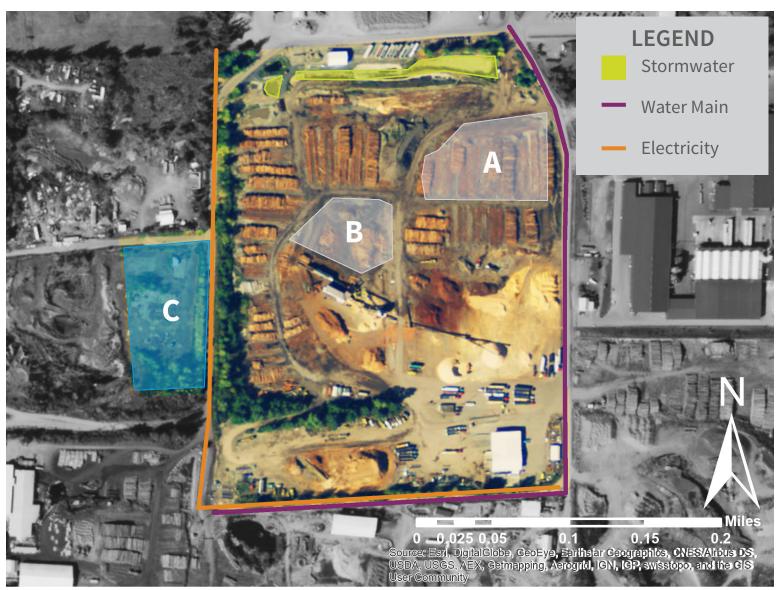
## SITE C UTILITIES



















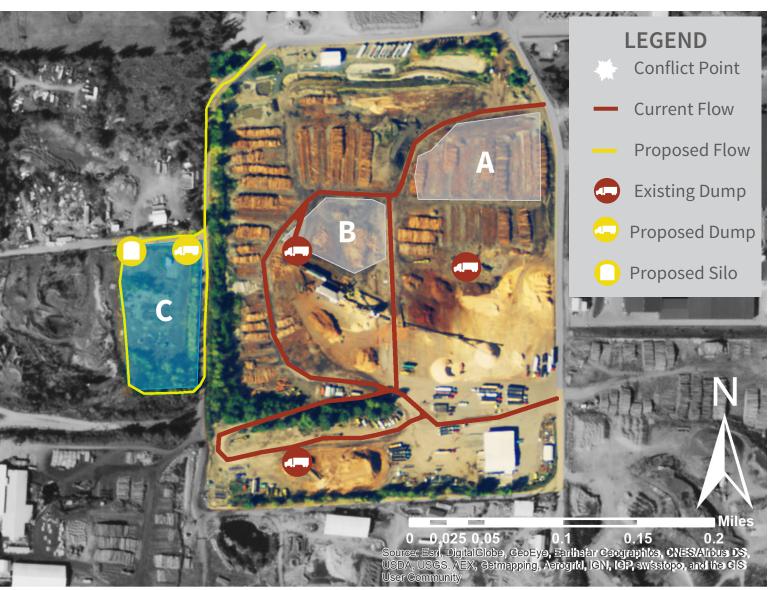
## SITE C FLOW



















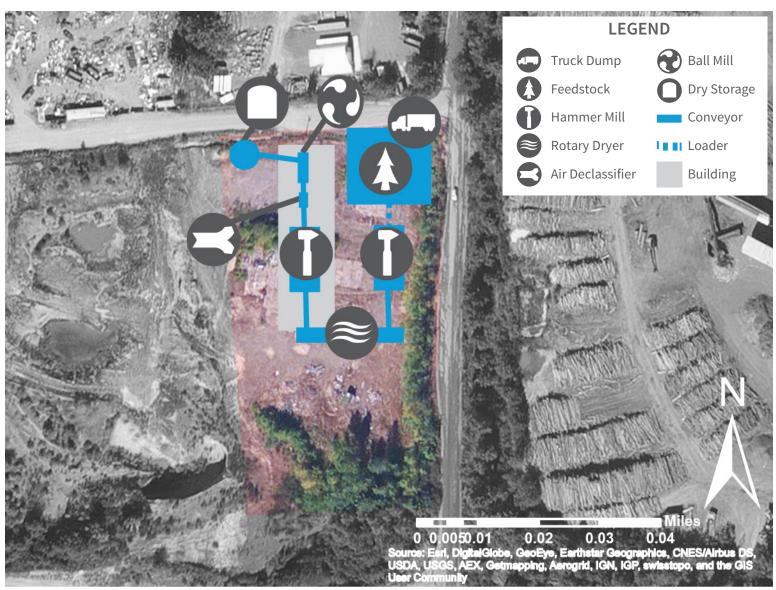
## SITE C FLOW



















## **SITE COMPARISON**

#### **OVERVIEW**





NARA is led by Washington State University and supported by the Agriculture and Food Research Initiative Competitive Grant no. 2011-68005-30416 from the USDA National Institute of Food and Agriculture.





## **SITE COMPARISION**

#### **SUMMARY TABLE**

	siteh	SiteP	Site	
Reasoning	Being used for log Storage	Used for storing waste from Log Chipper	Not being used	
Topography	No apparent issues	No apparent issues	No apparent issues	
Utilities	Some utilities adjacent	Utilities directly adjacent	Some utilities adjacent	
Flow	Interferes with exsiting flow	Greatly interferes with existing flow	Isolated flow	

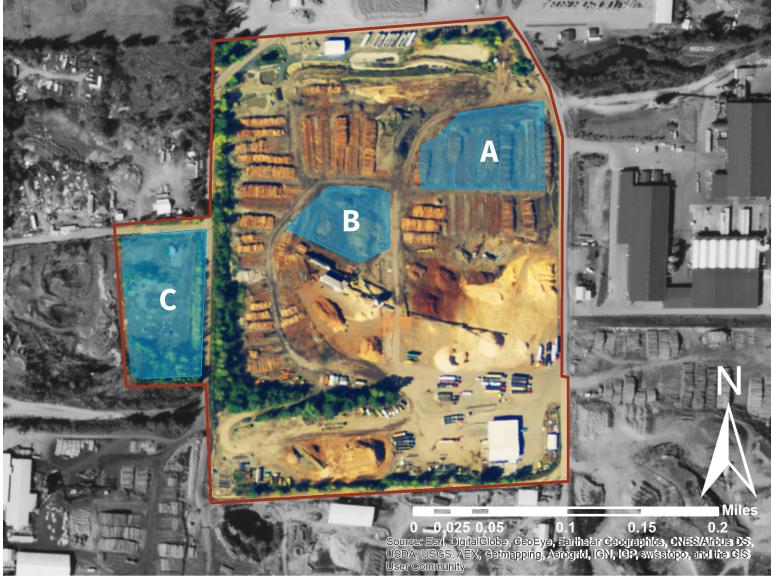






## **SITE COMPARISON**

#### **CONCLUSION**











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