

Data Source: Contour lines created from USGS Digital Elevation Model

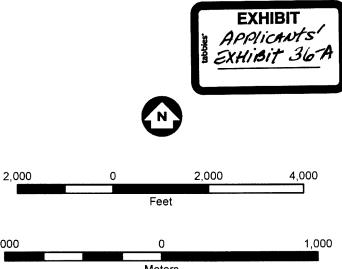
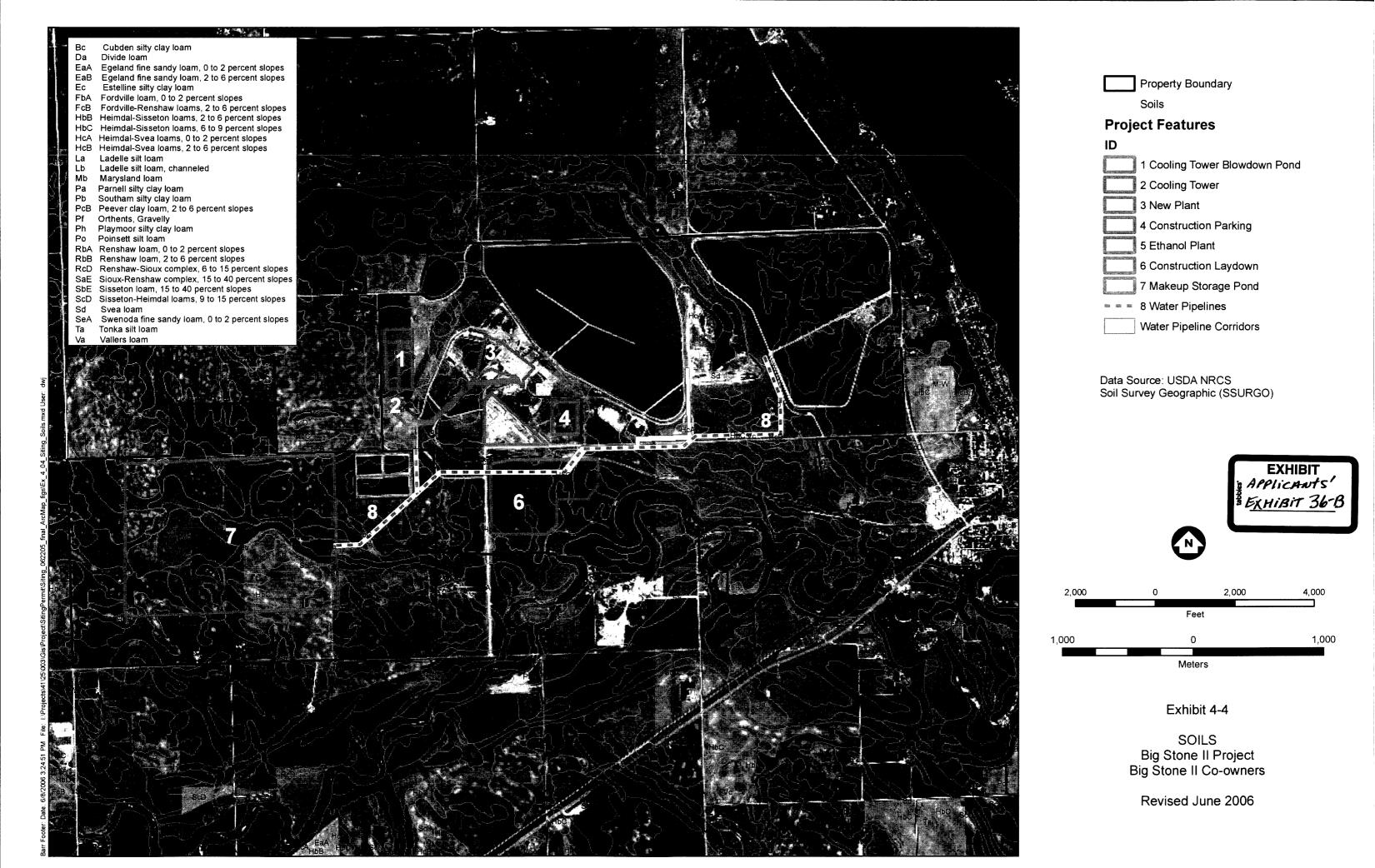
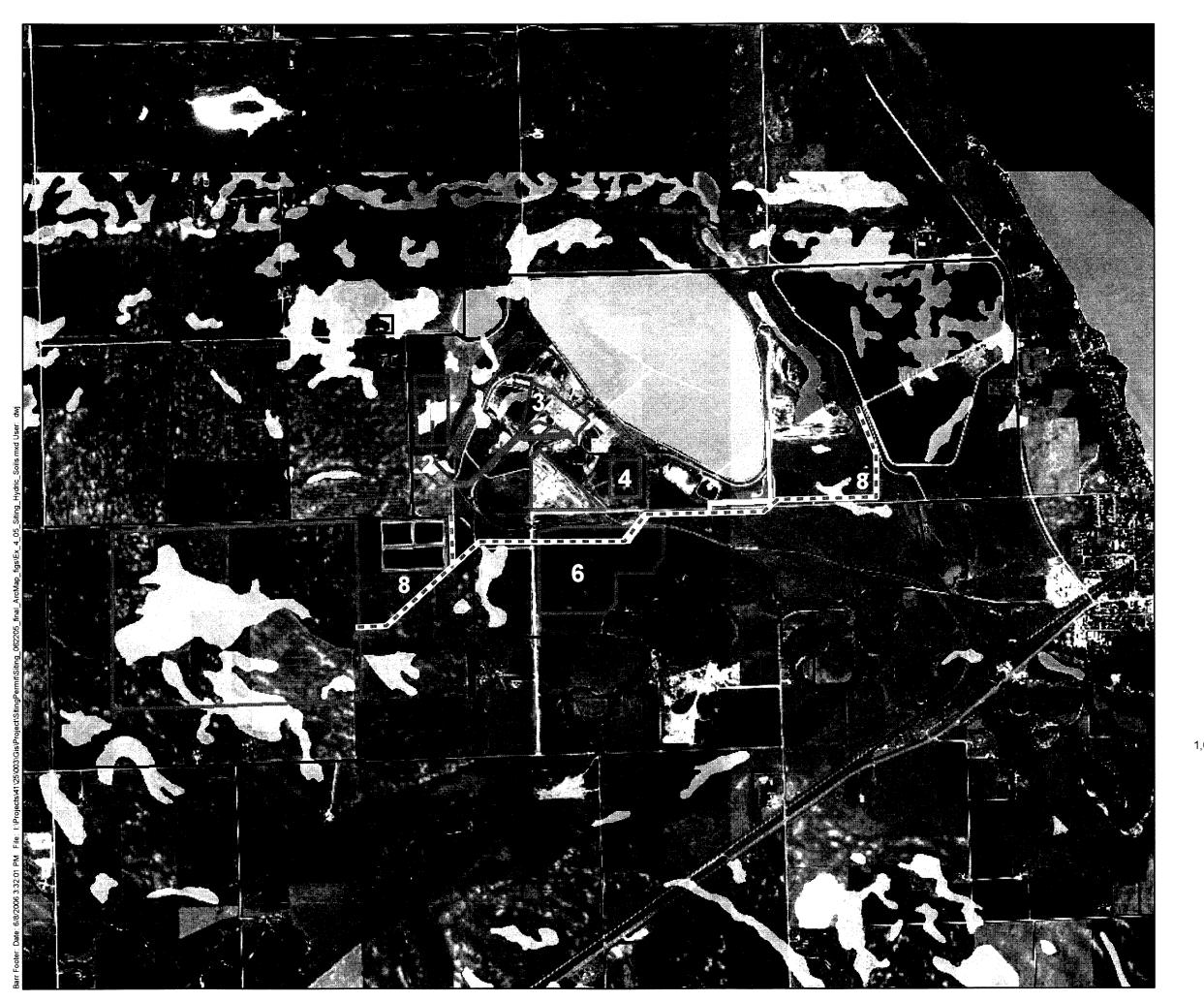
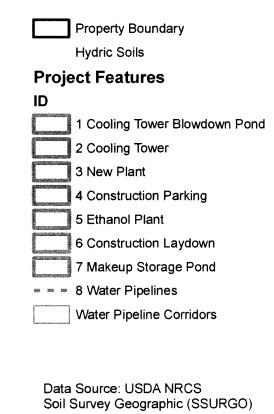


Exhibit 4-1

TOPOGRAPHIC MAP OF PROJECT VICINITY Big Stone II Project Big Stone II Co-owners







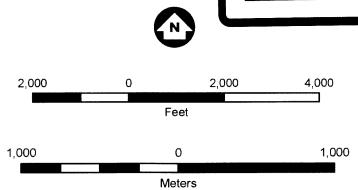


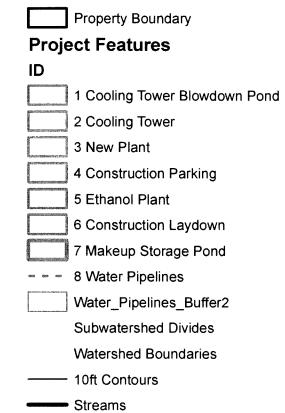
EXHIBIT APPLICANTS

EXHIBIT 36-C

Exhibit 4-5

HYDRIC SOILS Big Stone II Project Big Stone II Co-owners

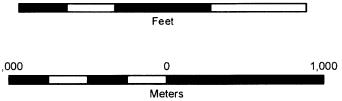






4,000

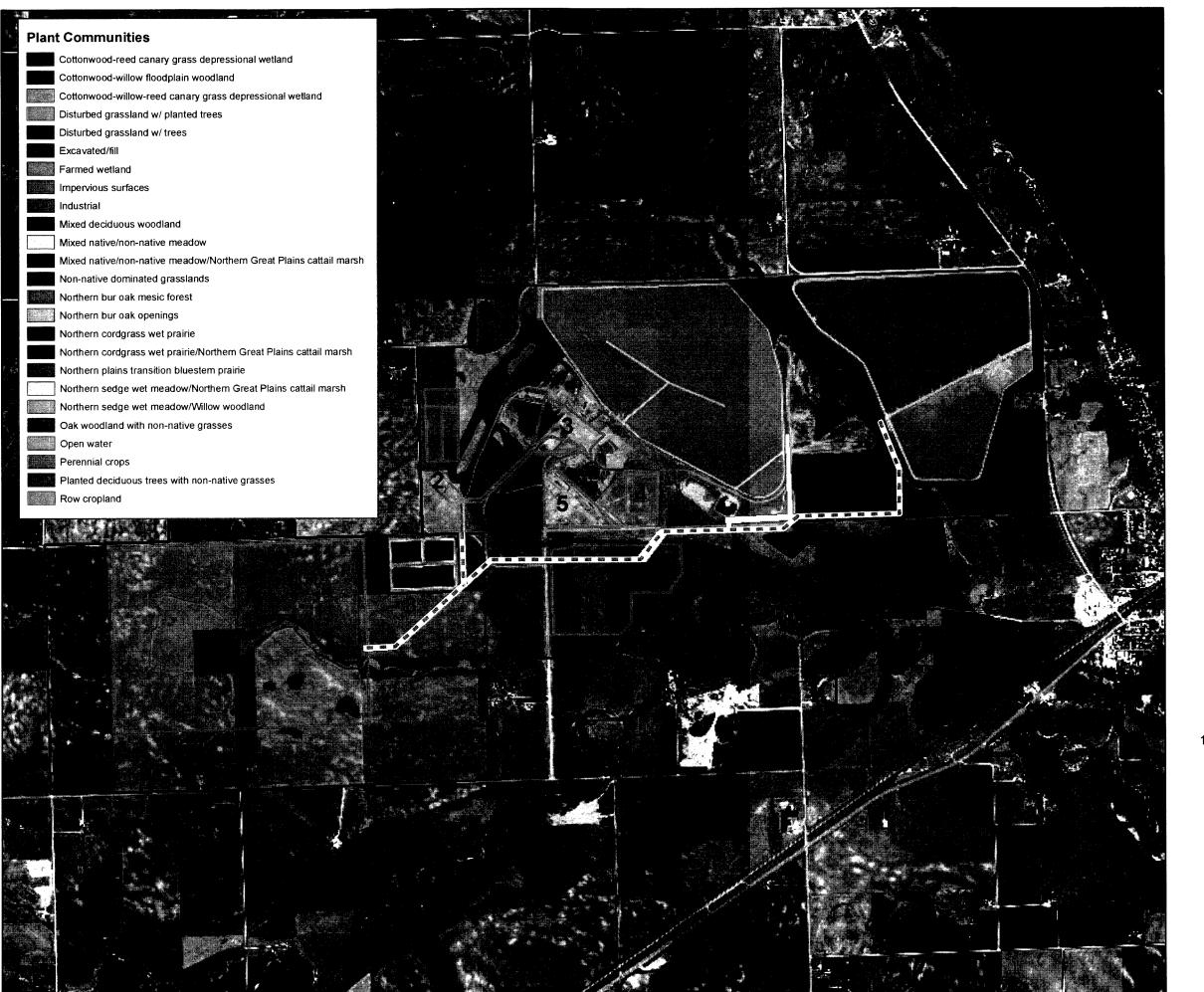




2,000

Exhibit 4-6

STREAM NETWORK & WATERSHED DIVIDES
Big Stone II Project
Big Stone II Co-owners



Project Features

ID

1 Cooling Tower Blowdown Pond
2 Cooling Tower
3 New Plant
4 Construction Parking
5 Ethanol Plant
6 Construction Laydown
7 Makeup Storage Pond
8 Water Pipelines
Water Pipeline Corridors

Plant community data collection by Barr Engineering Company in September 2004.

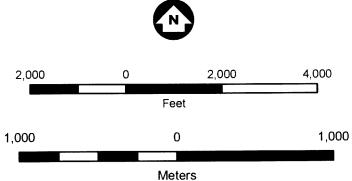
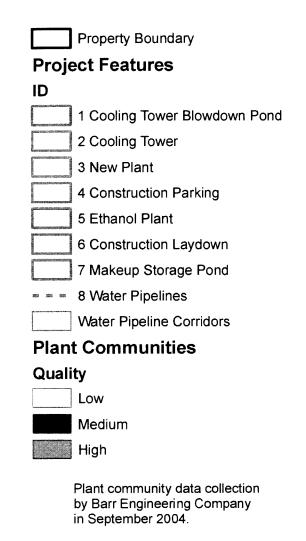


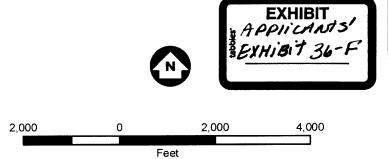
Exhibit 4-7

PLANT COMMUNITIES
Big Stone II Project
Big Stone II Co-owners









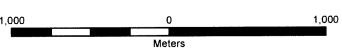
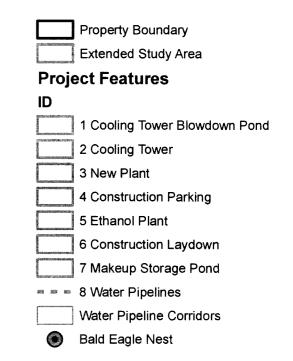


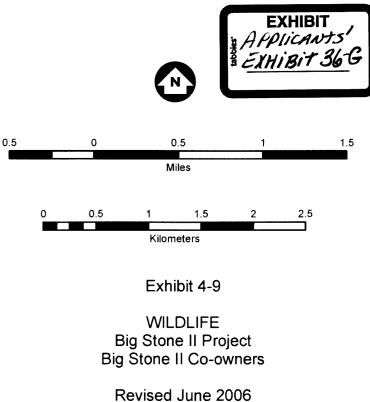
Exhibit 4-8

PLANT COMMUNITY QUALITY
Big Stone II Project
Big Stone II Co-owners

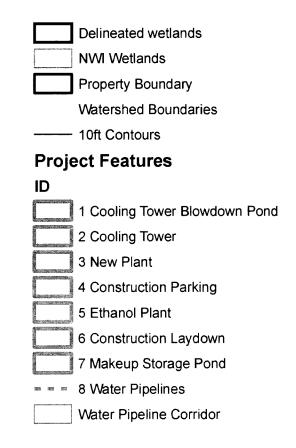




Field observations made by Barr Engineering Company. South Dakota Natural Heritage Database query completed on September 24, 2004 by the SD Department of Game, Fish and Parks.







Data Sources: USFWS National Wetlands Inventory. Wetlands delineation and data collection within property boundary by Barr Engineering Company.

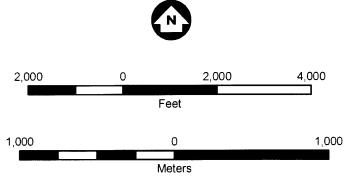
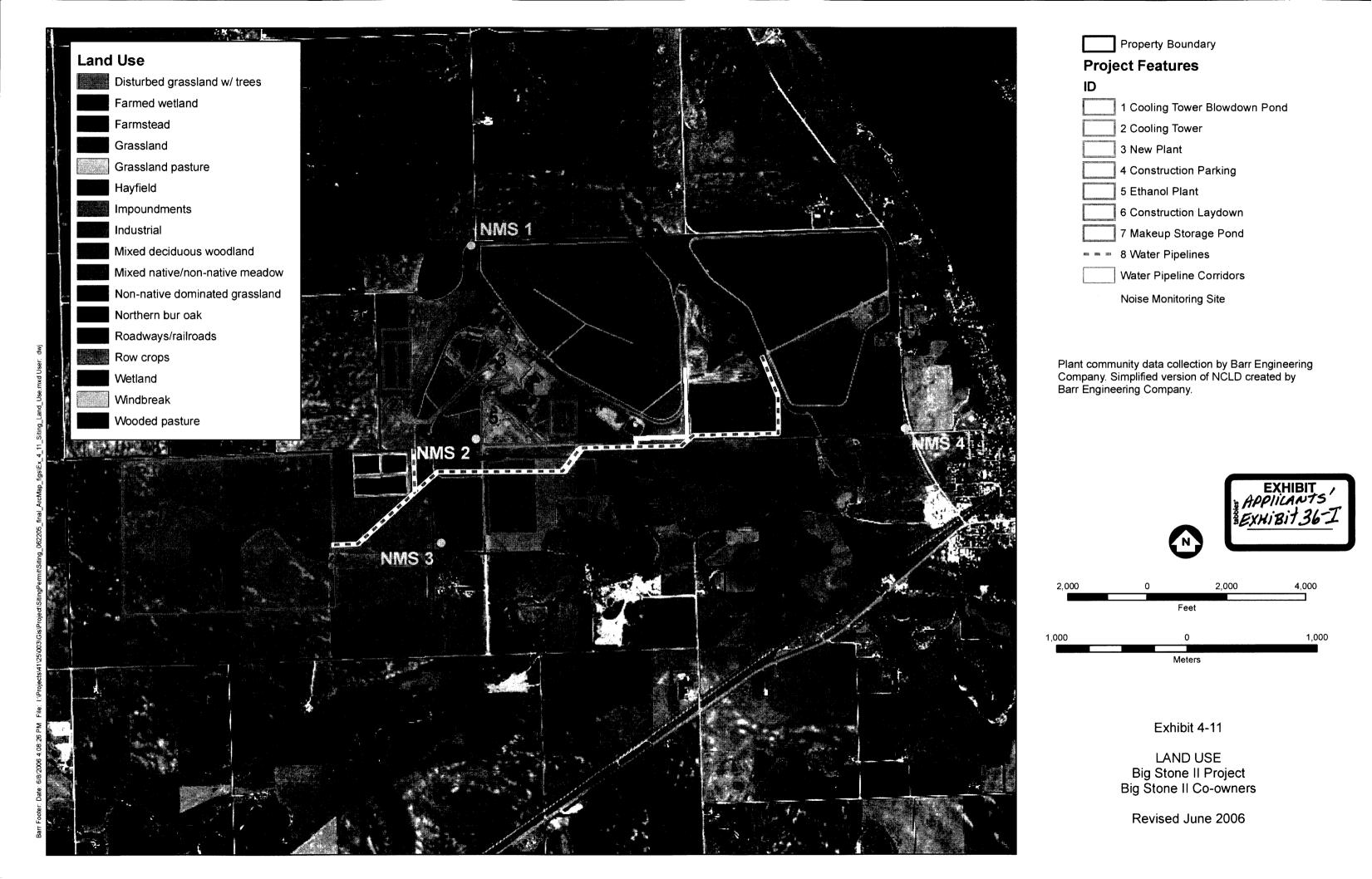
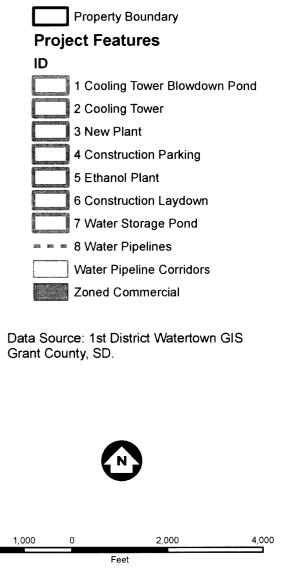


Exhibit 4-10

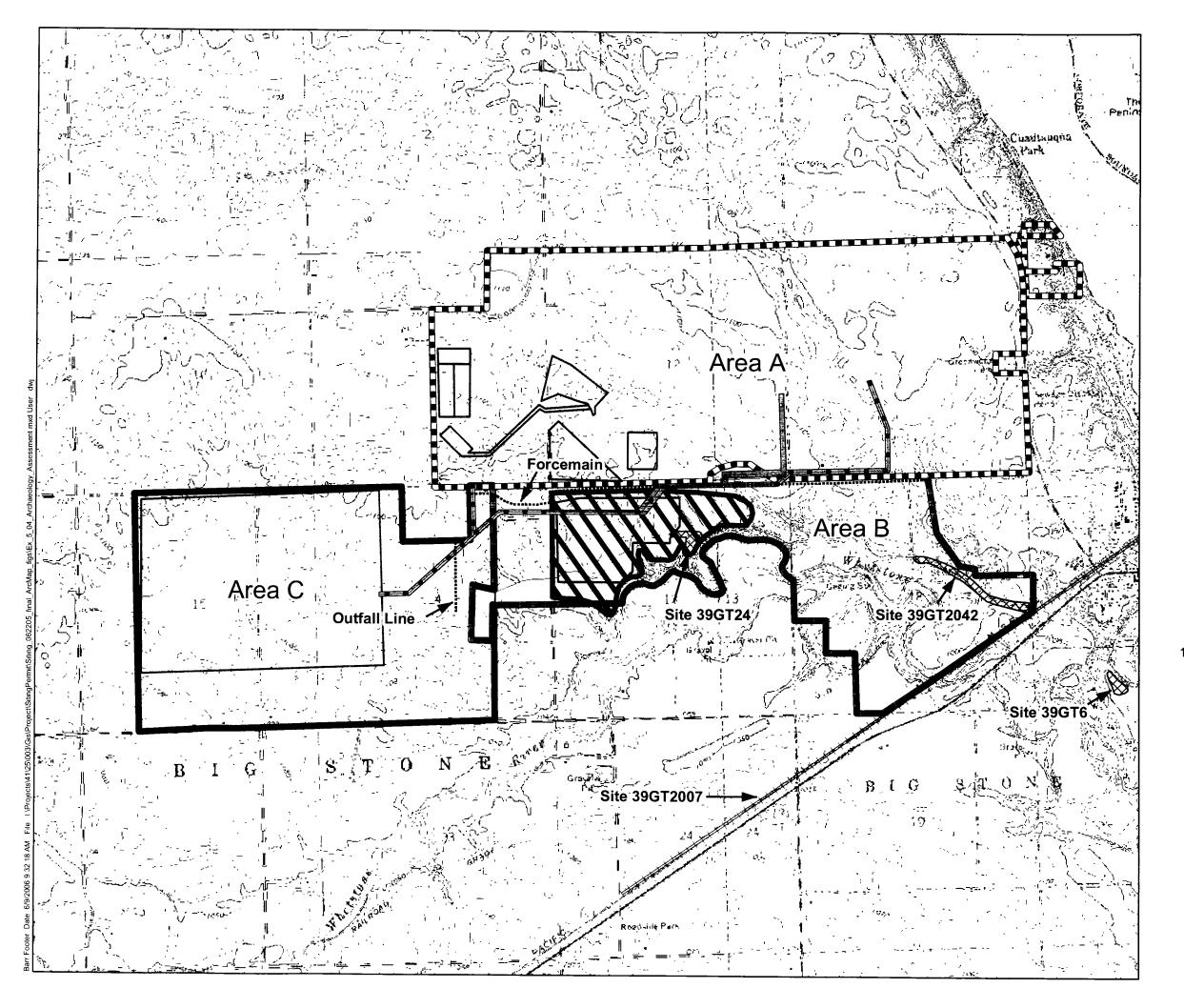
DELINEATED WETLANDS
Big Stone II Project
Big Stone II Co-owners











## Legend

Site Boundary

Project Features

• • • Water Pipeline

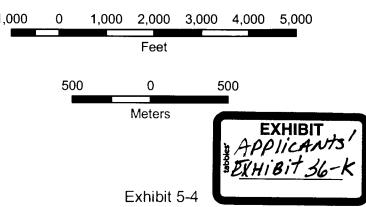
Water Pipeline Corridors

High Potential

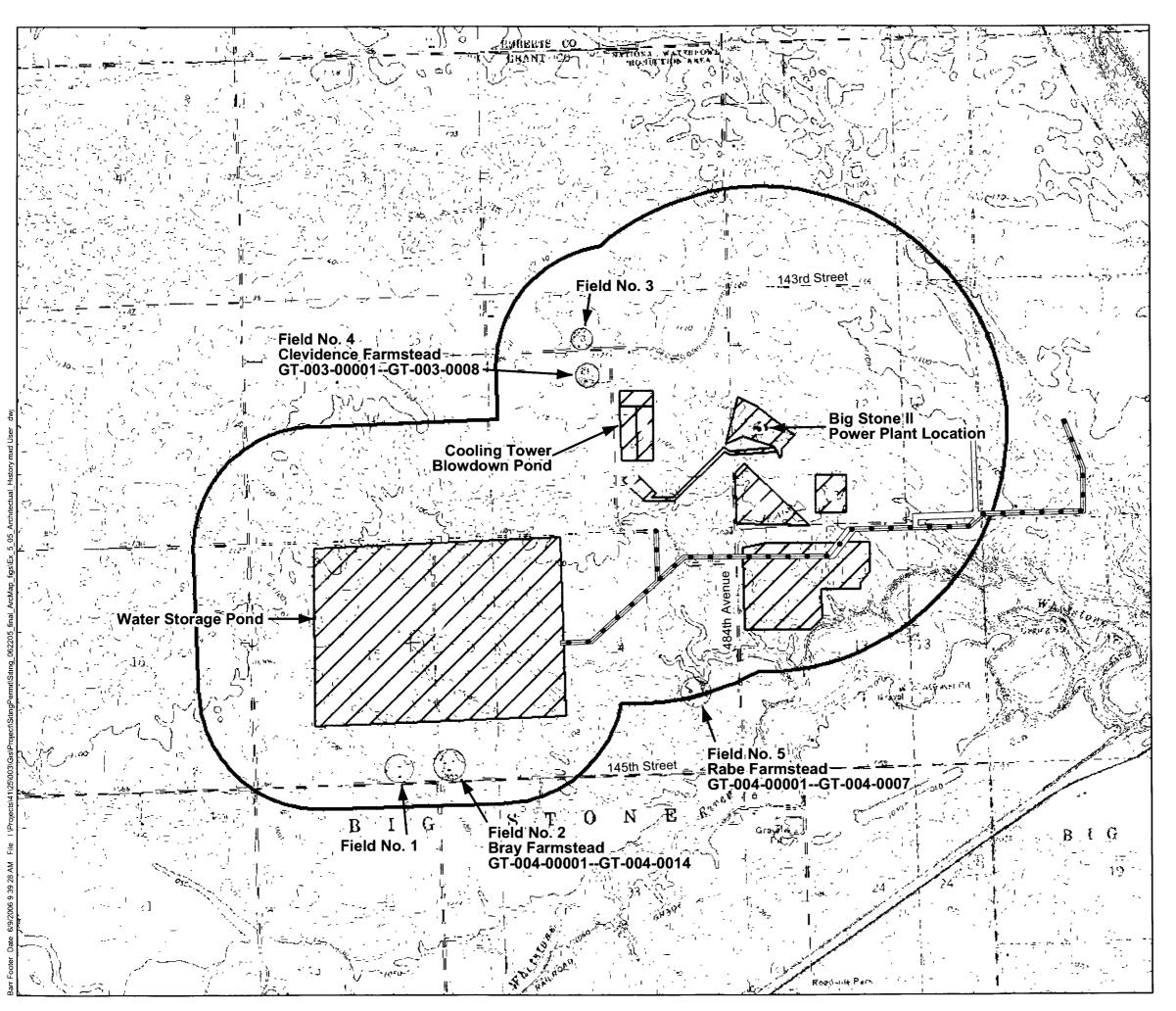
1994 Survey

----- 1996 Survey





ARCHAEOLOGY ASSESSMENT RESULTS
Big Stone II Project
Big Stone II Co-owners



## Legend

Architectural History Surveyed Properties

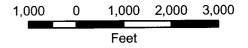
Architectural History Area of Potential Effect

Project Features

• • Water Pipeline

Water Pipeline Corridors





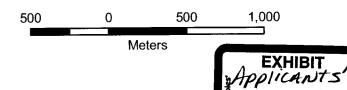


Exhibit 5-5

EXHIBIT 36-L

ARCHITECTURAL HISTORY
SURVEY RESULTS
Big Stone II Project
Big Stone II Co-owners