

EAPC
WIND ENERGY

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**Crowned Ridge Wind Farm
Shadow Flicker Iso-Lines
Overview Map**

Client
SWCA Environmental Consultants

Project Description
Wind turbine layout with occupied structures within 2 km.

Predicted shadow flicker levels at existing residences.

Location: Watertown, SD
Project #: 20174431

Issue Dates

| # | Description | Date |
|---|-------------|------------|
| 1 | Original | 2019.05.24 |

Drawn By: AS *Checked By:* JH

Legend


- Crowned Ridge Wind Turbines
- Crowned Ridge II Wind Turbines
- Dakota Range Wind Turbines
- 2 km Turbine Buffer
- County Lines
- CR1 Project Boundary
- Non Participants
- Participants

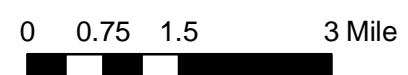
Shadow Flicker (hr/yr)

- 10
- 15
- 20
- 25
- 30

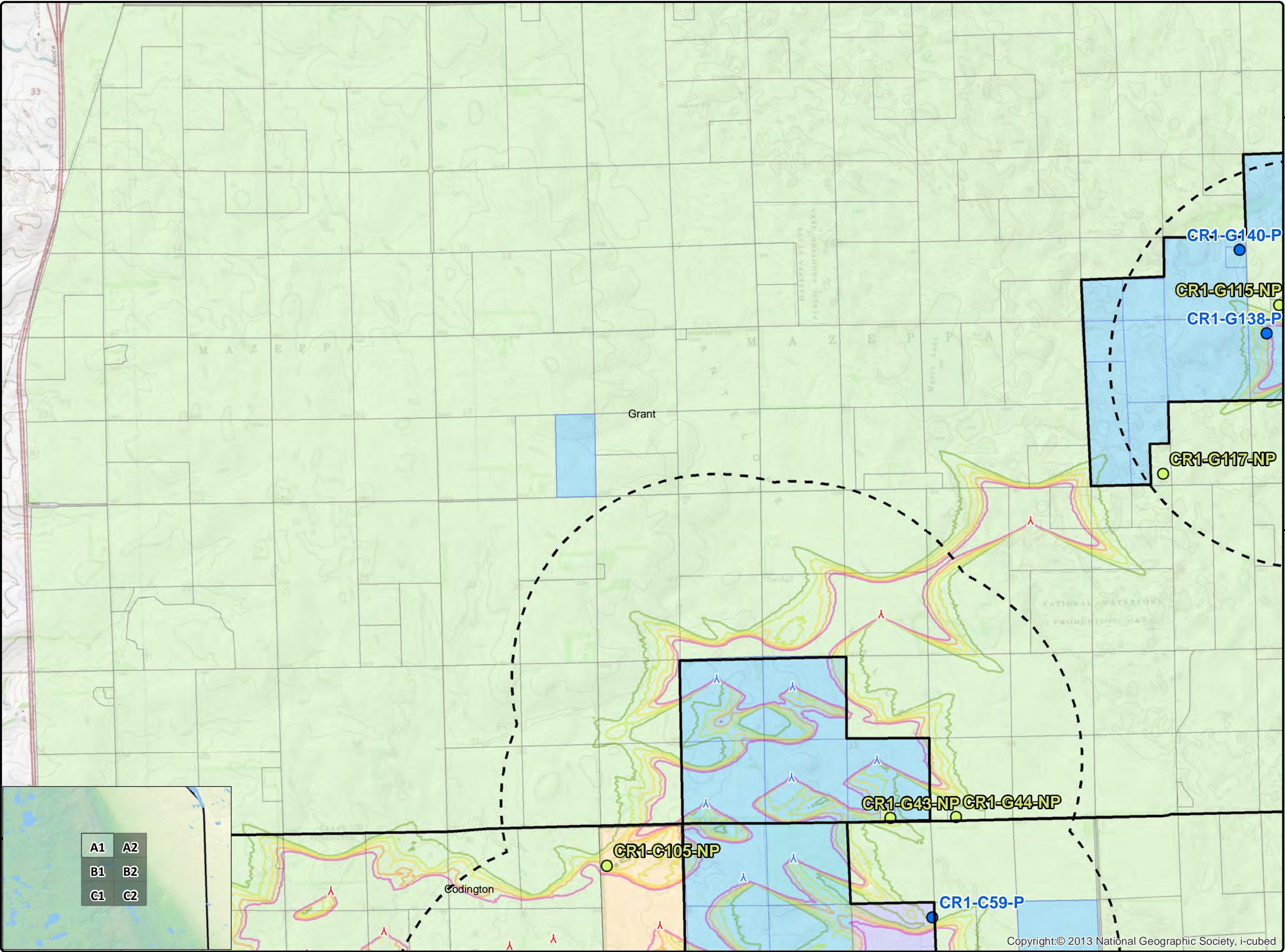
- Non-Participating Codington Parcels
- Participating Codington Parcels
- Participating Parcels
- Pending Parcels
- Non-Participating Parcels


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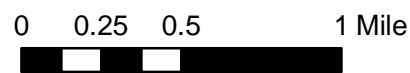
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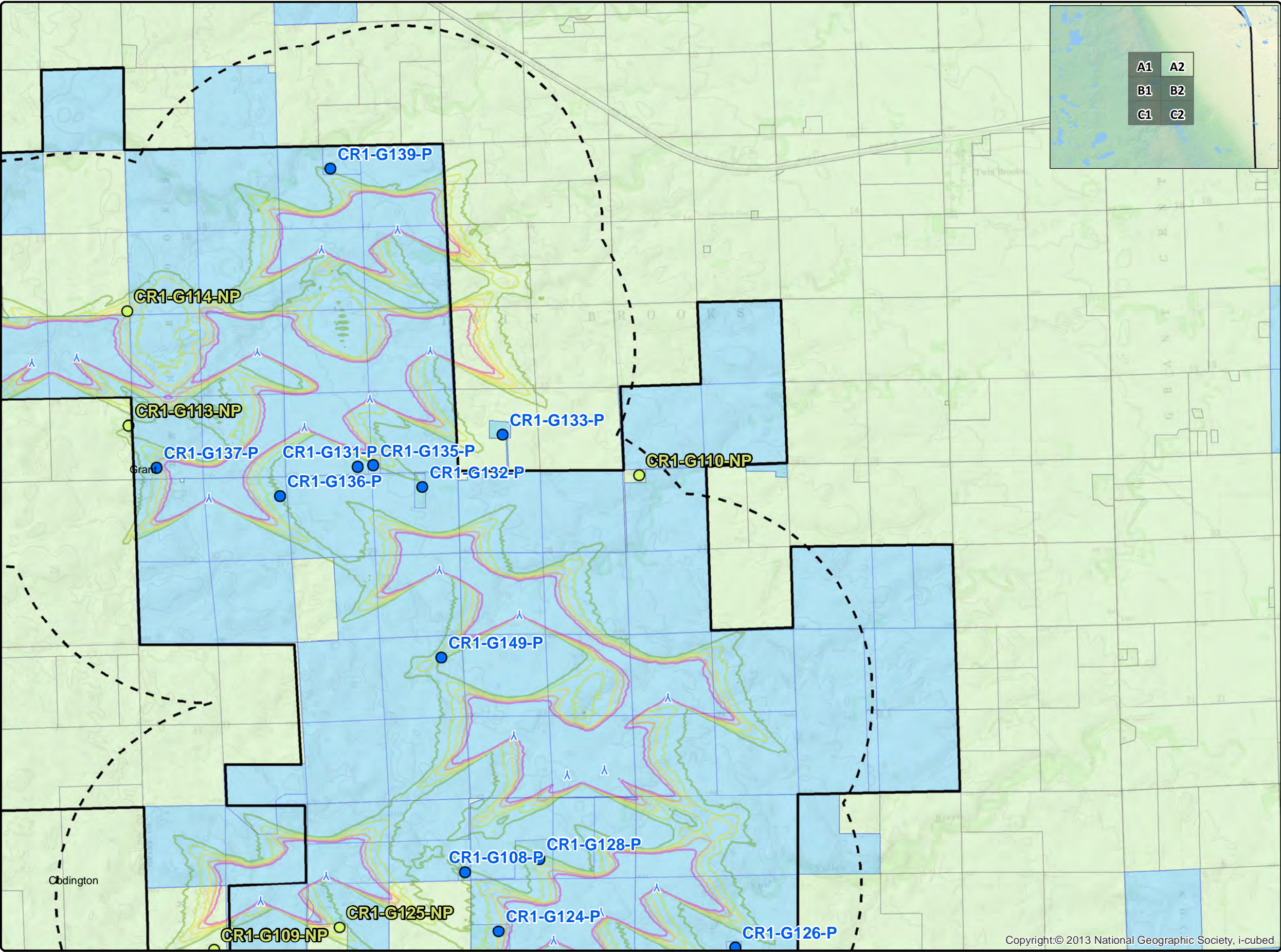
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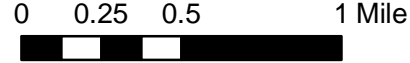
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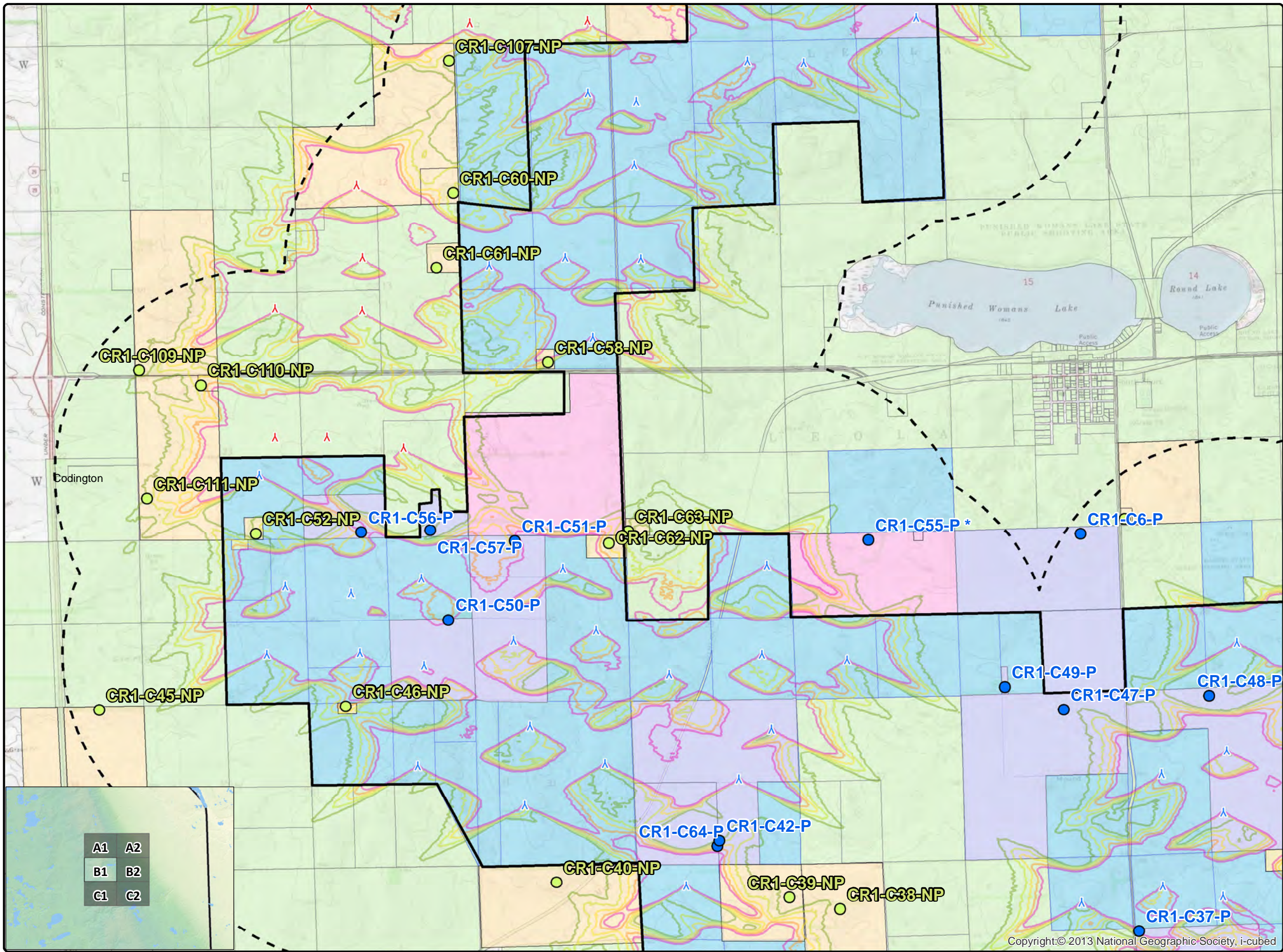
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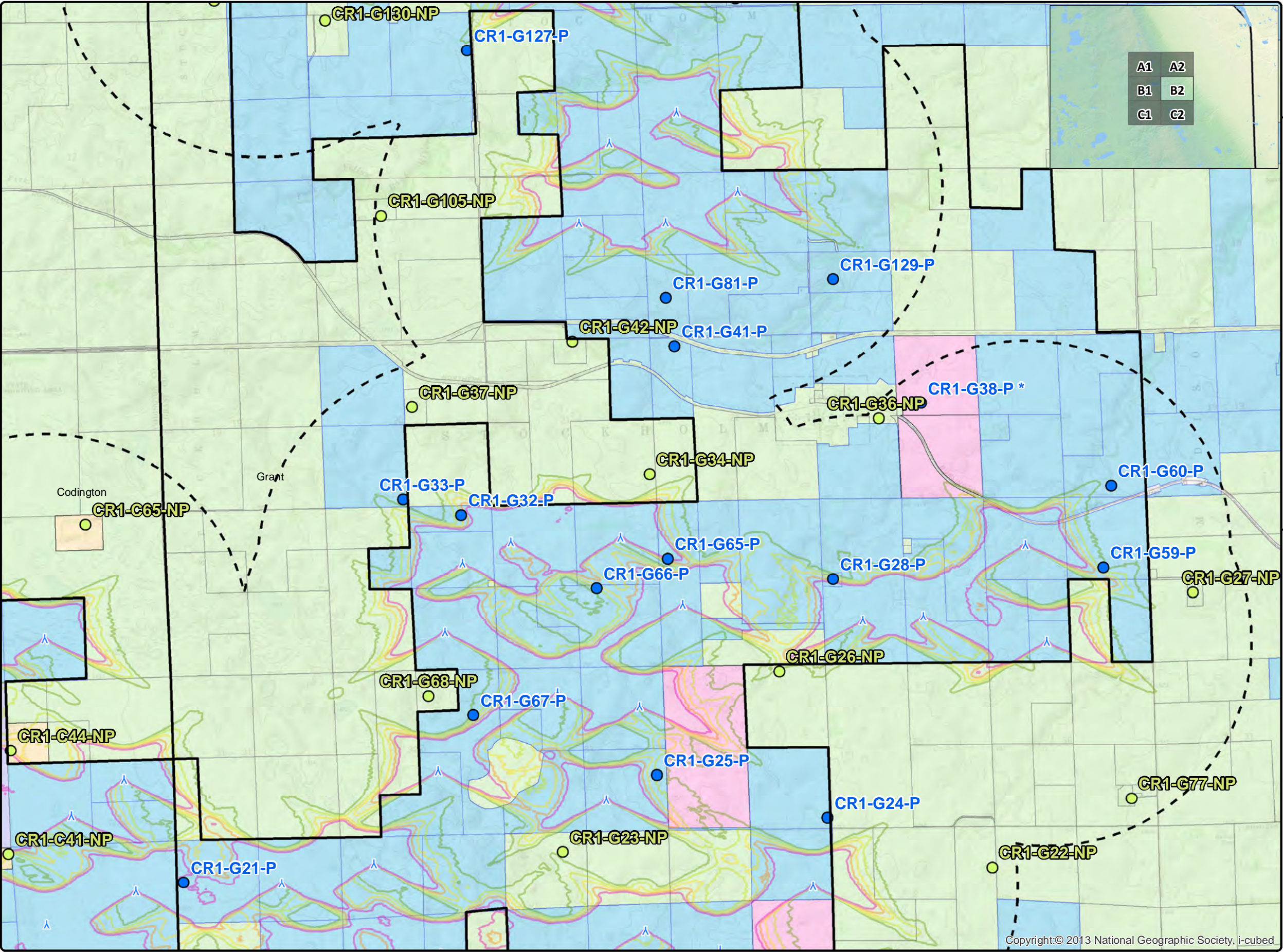
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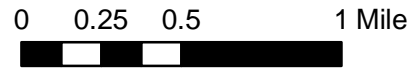
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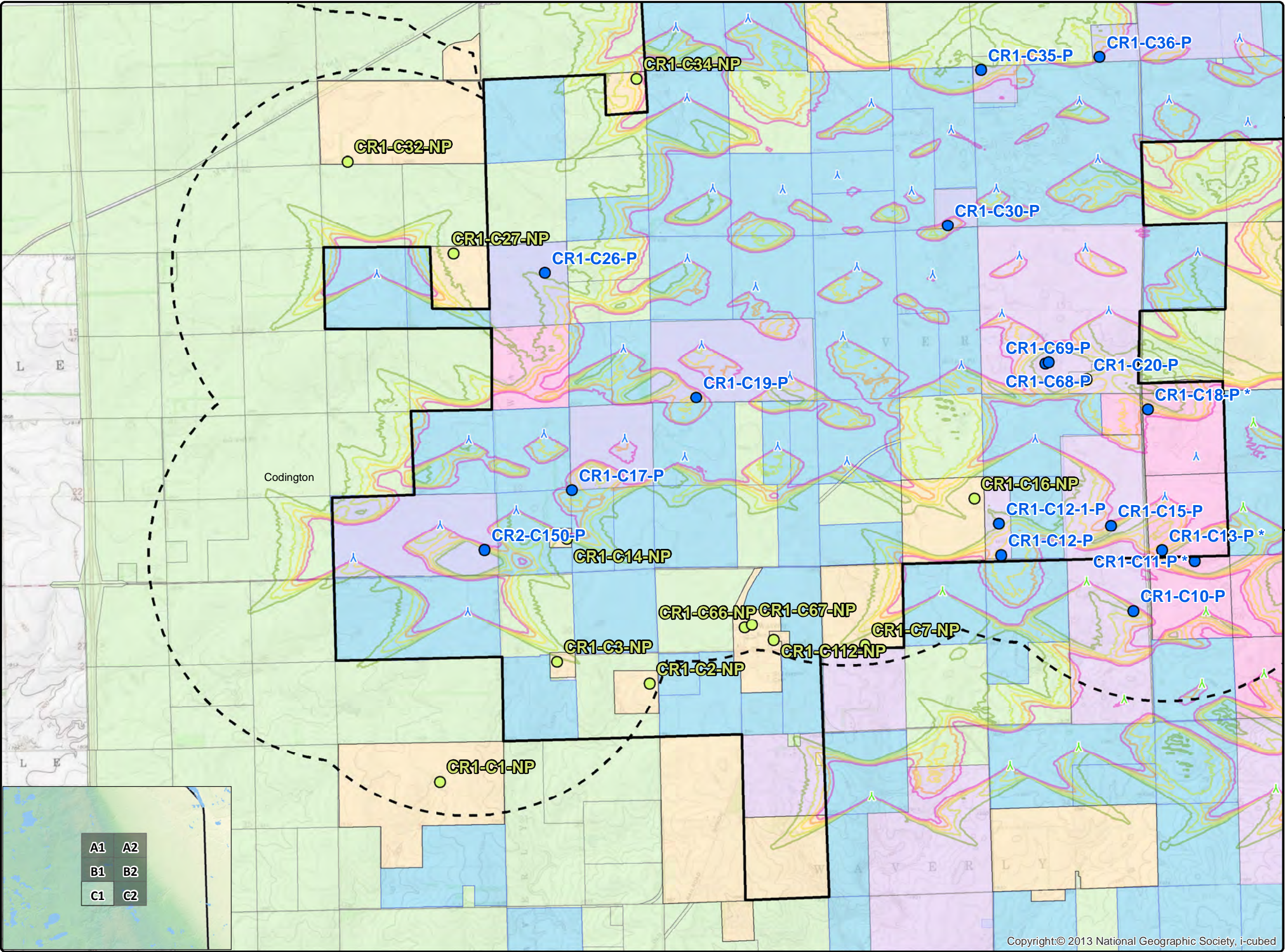
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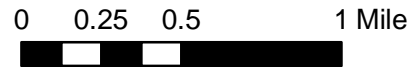
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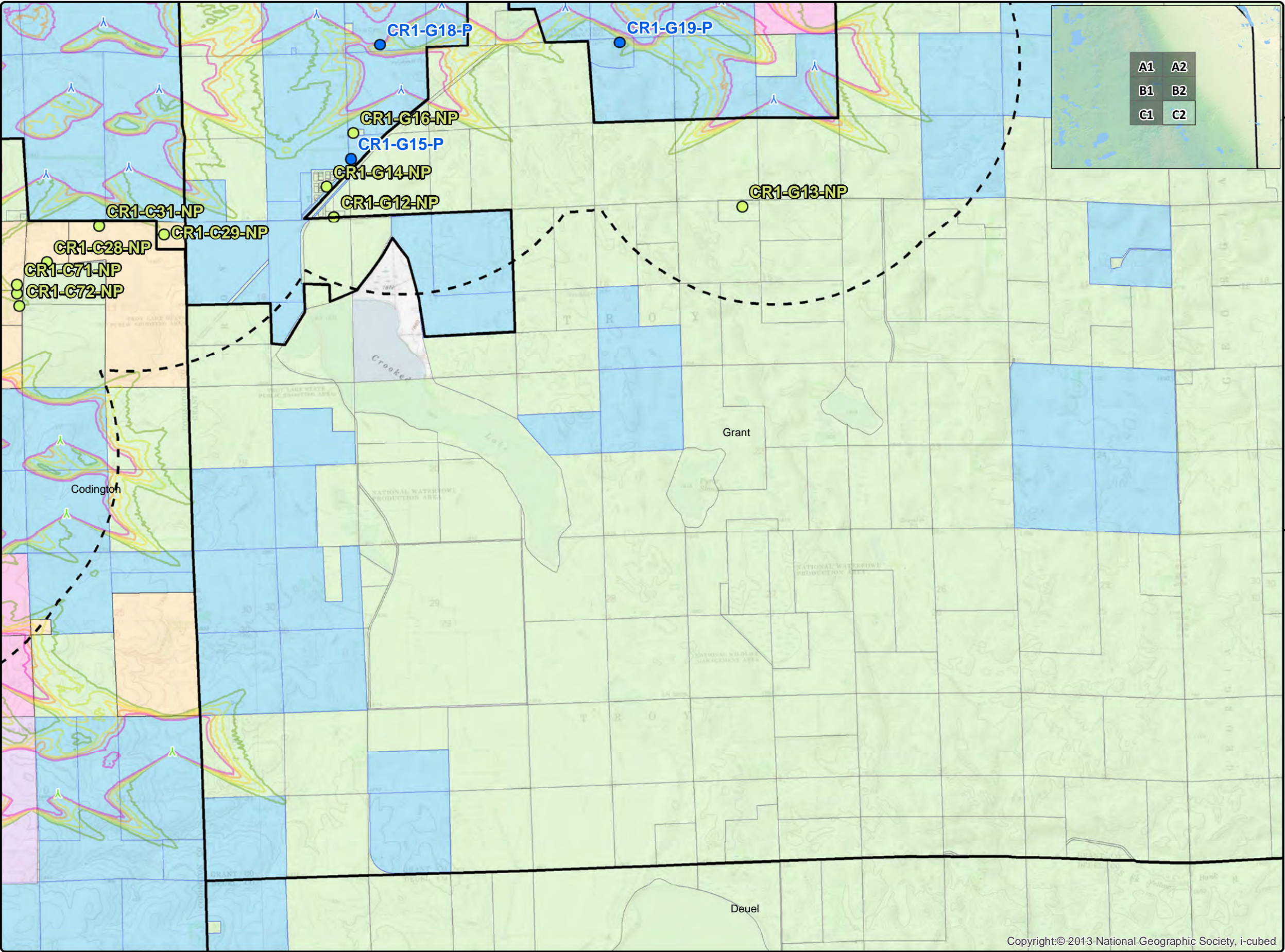
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


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

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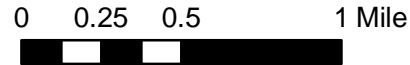
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**BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF SOUTH DAKOTA**

| | |
|------------------------------------|-------------------------------|
| IN THE MATTER OF THE APPLICATION) | |
| BY CROWNED RIDGE WIND, LLC FOR A) | EL19-003 |
| PERMIT OF A WIND ENERGY FACILITY) | |
| IN GRANT AND CODINGTON COUNTIES) | CERTIFICATE OF SERVICE |
|) | |

I hereby certify that true and correct copies of Jay Haley Rebuttal testimony Exhibit 1 in this matter were served electronically to the parties listed below on the 25th day of May, 2019, addressed to:

Ms. Patricia Van Gerpen
Executive Director
patty.vangerpen@state.sd.us

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Staff Attorney
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Mr. Darren Kearney
Staff Analyst
Darren.kearney@state.sd.us

Mr. Jon Thurber
Staff Analyst
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Mr. Eric Paulson
Staff Analyst
Eric.paulson@state.sd.us

Mr. Brian J. Murphy
Senior Attorney
NextEra Energy Resources, LLC
Brian.j.murphy@nee.com

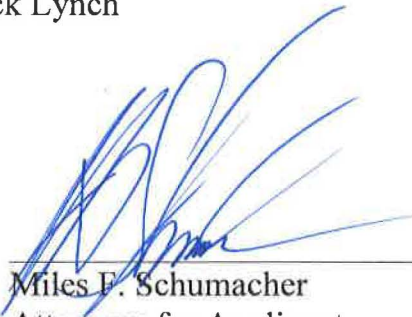
Mr. Tyler Wilhelm
Associate Project Manager
NextEra Energy Resources, LLC
Tyler.Wilhelm@nexteraenergy.com

Mr. Mikal Hanson
Staff Attorney
Mikal.hanson@state.sd.us

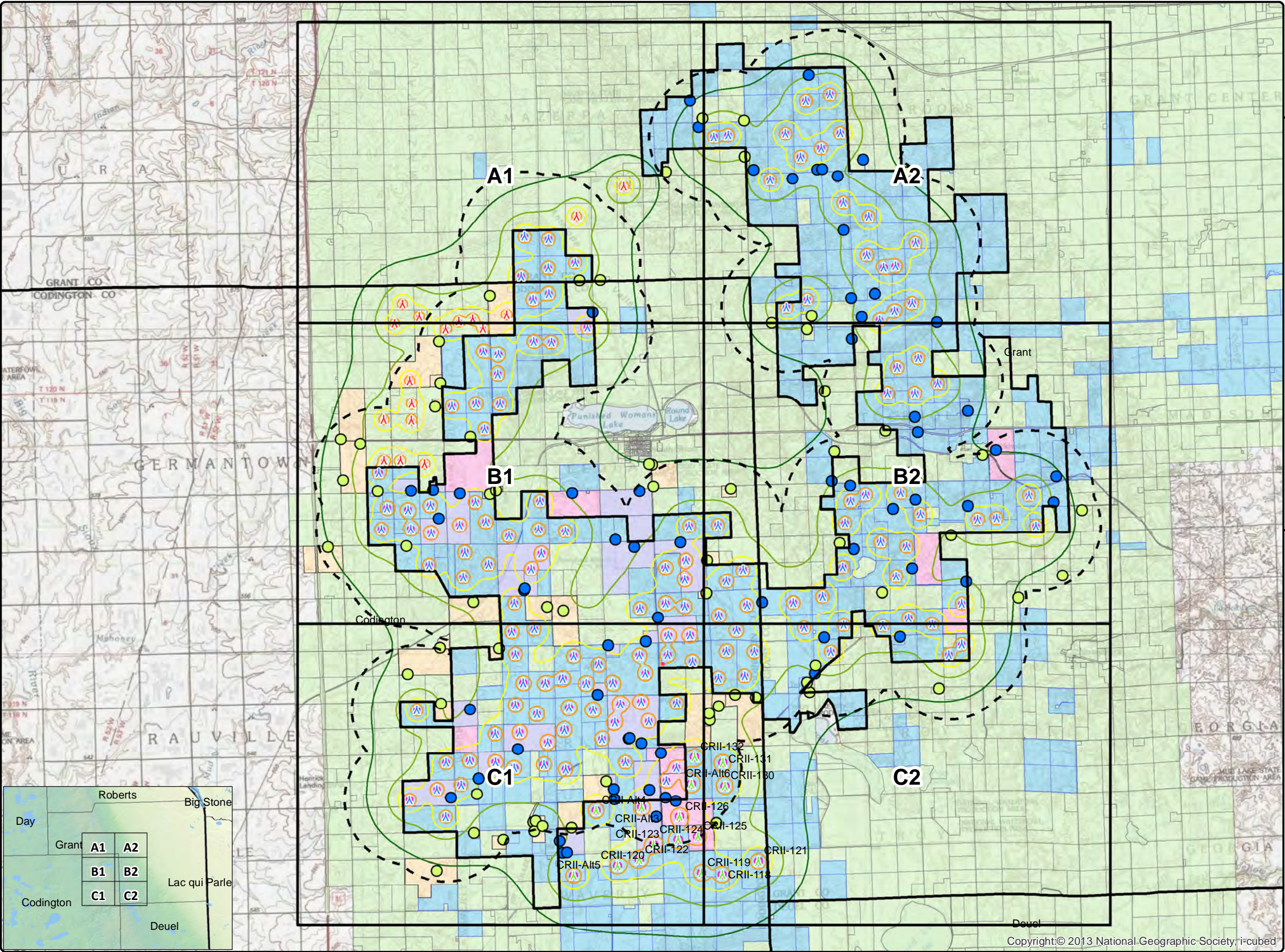
Ms. Cindy Brugman
Auditor
Codington County
cbrugman@codington.org


Ms. Karen Layher
Auditor
Grant County
Karen.Layher@state.sd.us

Mr. David Ganje
Representing Intervenors Mr. Allen Robish,
Ms. Amber Christenson, Ms. Kristi Mogen,
Ms. Melissa Lynch and Mr. Patrick Lynch
Ganje Law Offices
davidganje@ganjelaw.com



Miles F. Schumacher
Attorneys for Applicant
Lynn, Jackson, Shultz & Lebrun, PC
110 N. Minnesota Ave., Suite 400
Sioux Falls, SD 57104





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Sound Pressure Iso-Lines
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Wind turbine layout with occupied structures within 2 km as well as parcel boundaries.

Predicted sound pressure levels at existing residences and land parcel boundaries.

Additional 2 dBA added.










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



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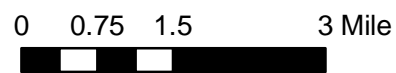
Sound Pressure (dBA)

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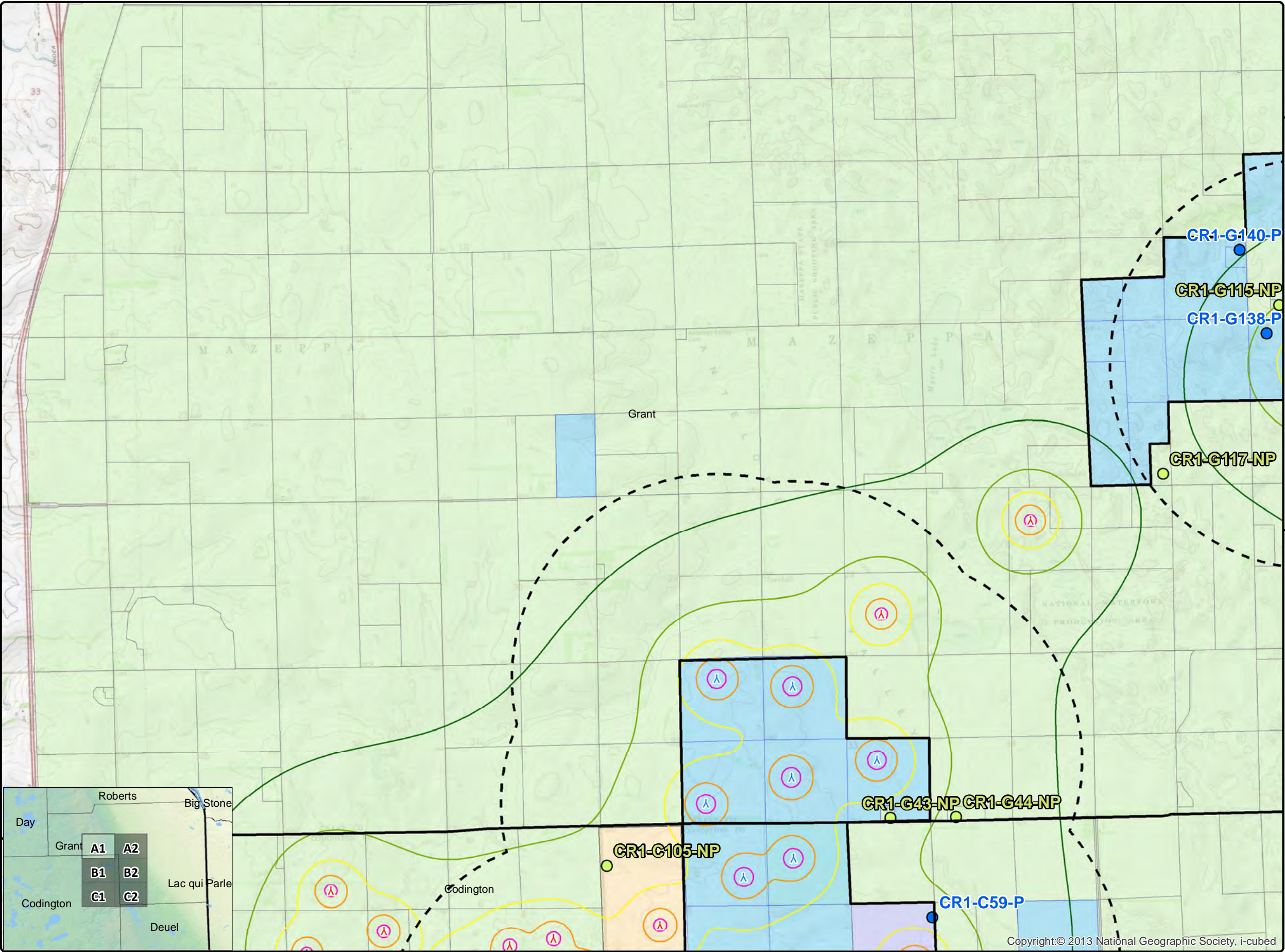
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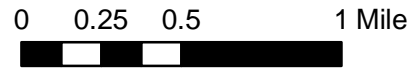
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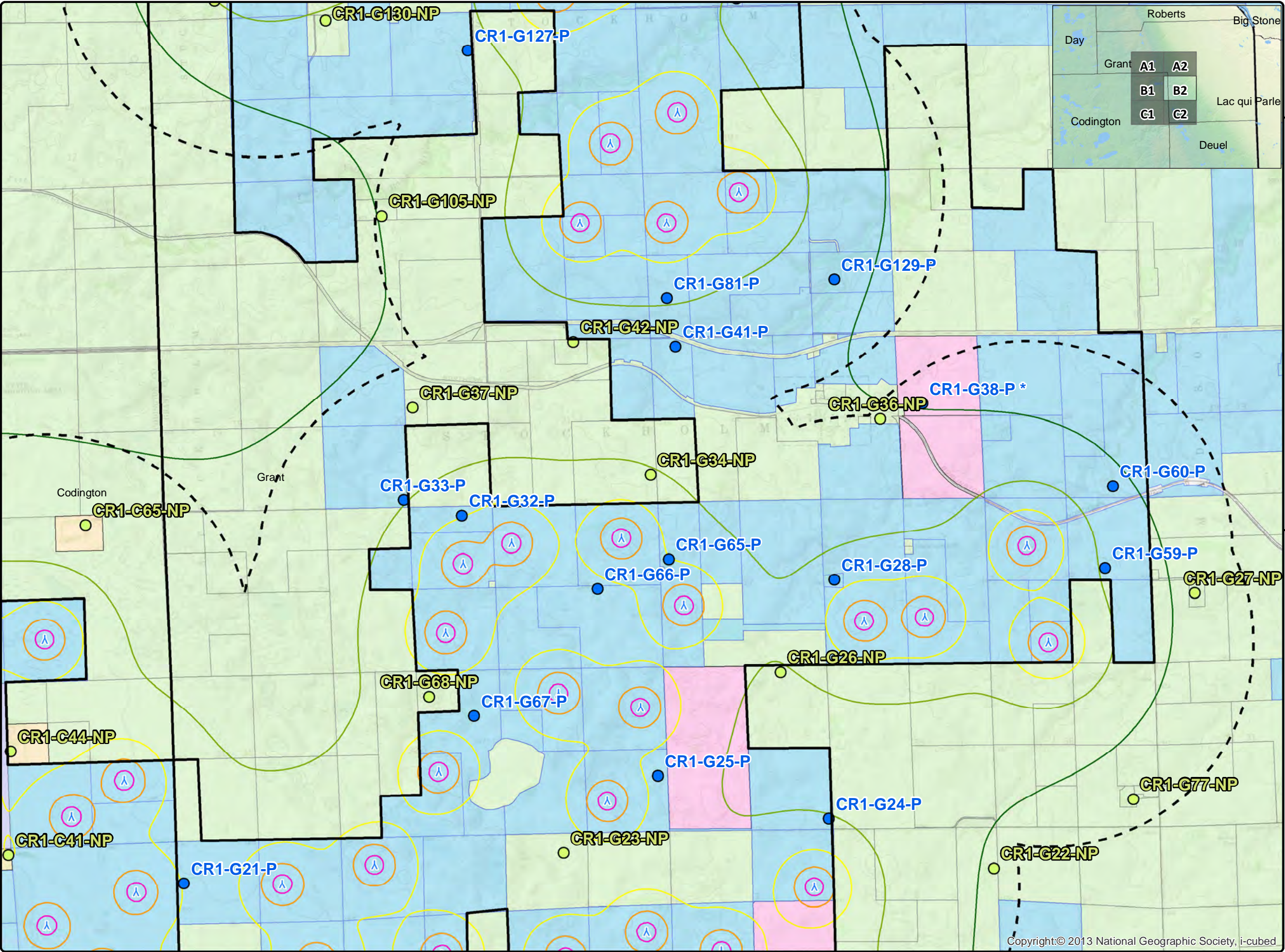
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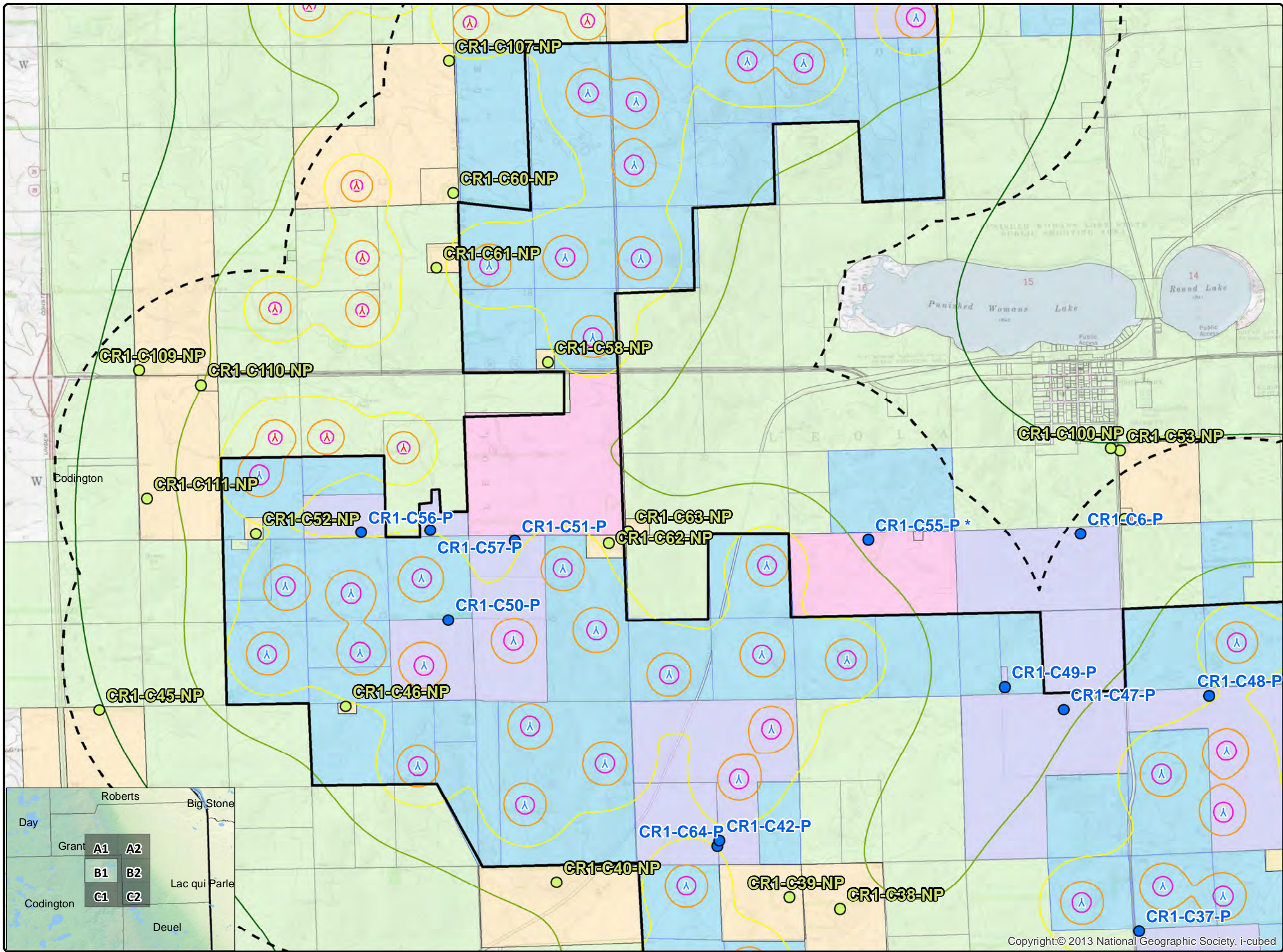
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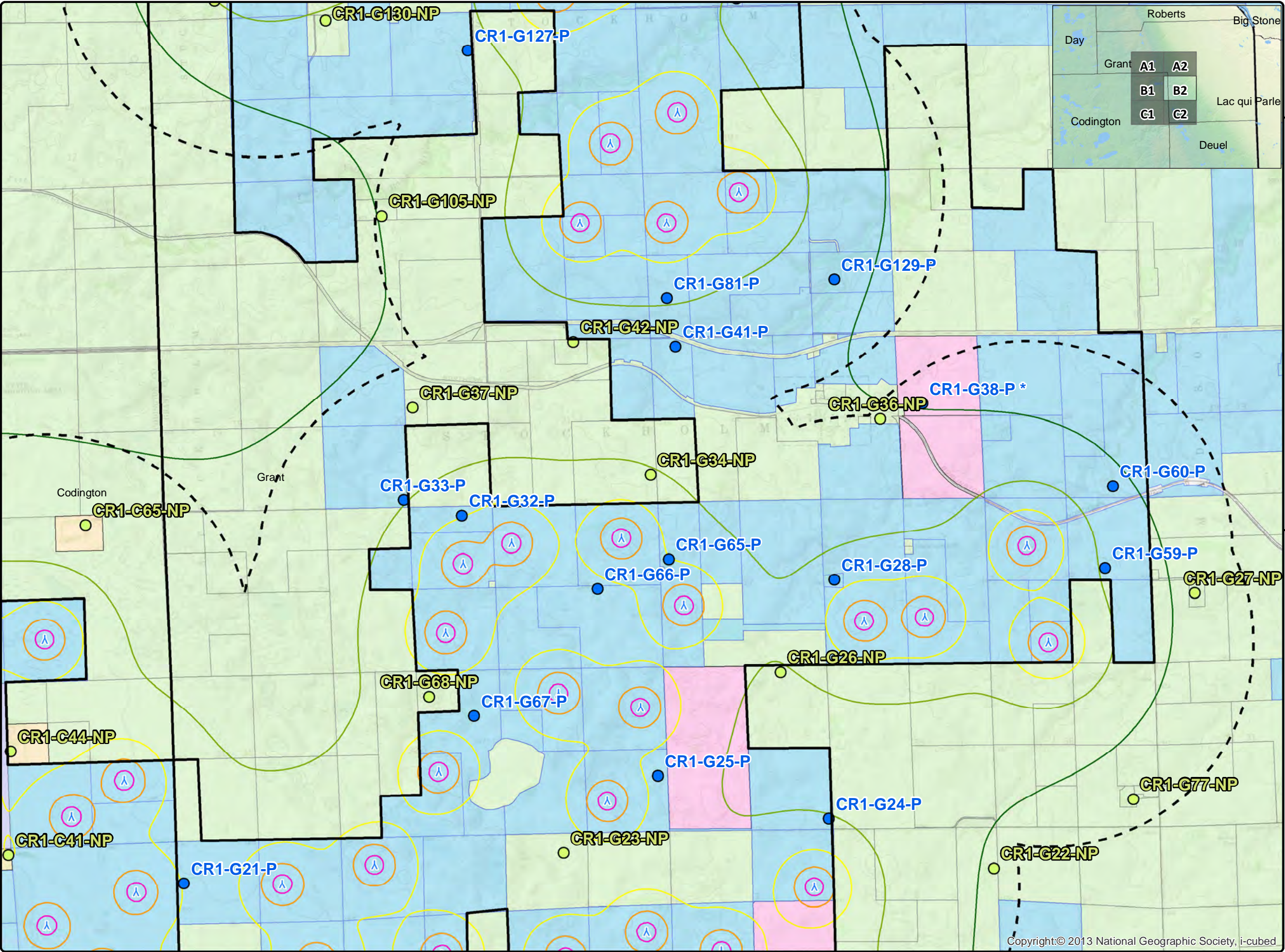
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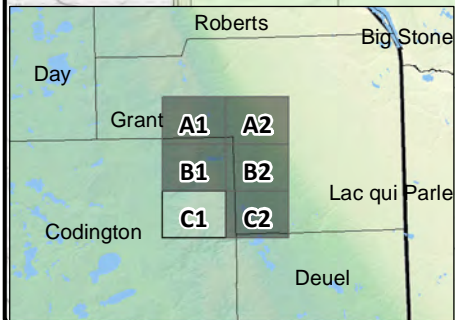
| | | |
|-----------|-------------|----------------|
| 1 | Original | 2019.05.24 |
| # | Description | Date |
| Drawn By: | AS | Checked By: JH |










Legend

- Crowned Ridge Wind Turbines
- Crowned Ridge II Wind Turbines
- Dakota Range Wind Turbines
- 2 km Turbine Buffer
- County Lines
- CR1 Project Boundary
- Non Participants
- Participants
- <all other values>
- Sound Pressure (dBA)**
 - 35
 - 40
 - 45
 - 50
 - 55
- Participating Codington Parcels
- Non-Participating Codington Parcels
- Participating Parcels
- Pending Parcels
- Non-Participating Parcels






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








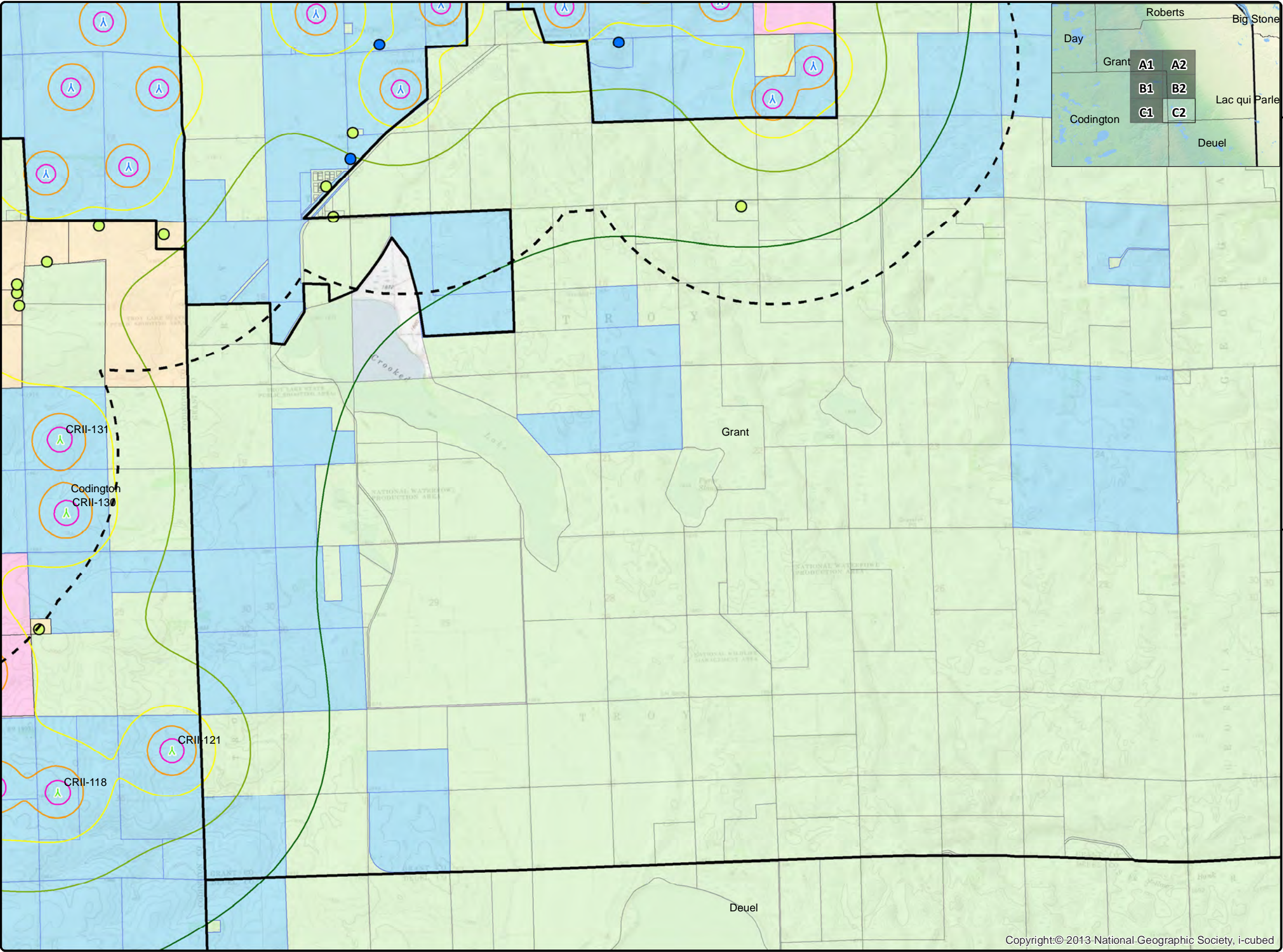
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 <all other values>


Sound Pressure (dBA)

 35
 40
 45
 50
 55

 Participating Codrington Parcels
 Non-Participating Codrington Parcels
 Participating Parcels
 Pending Parcels
 Non-Participating Parcels

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EAPC
WIND ENERGY

www.eapc.net | 701.775.3000

**Crowned Ridge Wind Farm
Sound Pressure Iso-Lines
Overview Map**

Client
SWCA Environmental Consultants

Project Description
Wind turbine layout with occupied structures within 2 km as well as parcel boundaries.

Predicted sound pressure levels at existing residences and land parcel boundaries.

Additional 2 dBA added.

Location: Watertown, SD
Project #: 20174431

Issue Dates


| | | |
|---|-------------|------------|
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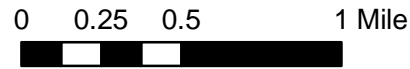
Drawn By: AS Checked By: JH

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**BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF SOUTH DAKOTA**

IN THE MATTER OF THE APPLICATION)
BY CROWNED RIDGE WIND, LLC FOR A)
PERMIT OF A WIND ENERGY FACILITY)
IN GRANT AND CODINGTON COUNTIES)
)

EL19-003

CERTIFICATE OF SERVICE

I hereby certify that true and correct copies of Jay Haley Rebuttal testimony
Exhibit 2 in this matter were served electronically to the parties listed below on the 24th
day of May, 2019, addressed to:

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