

ENVIRONMENTAL ASSESSMENT

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|-------------------------|--|------------------|-----------------------------|
| 1. <i>Project title</i> | Electrical Substation Relocation - Grand Rapids Public Utility Commission | | |
| 2. <i>Proposer</i> | Grand Rapids Public Utility Comm. | 3. <i>RGU</i> | City of La Prairie |
| Contact person | Anthony Ward | Contact person | Marilyn Carlson |
| Title | Superintendent | Title | City Clerk |
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| City, state, ZIP | Grand Rapids, MN 55744 | City, state, ZIP | La Prairie, MN 55744 |
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4. *Reason for EA preparation* (check one)
 EIS scoping Mandatory Citizen petition RGU discretion

If an environmental review is mandatory give EQB rule category subpart number and subpart name.
**Minnesota Environmental Quality Board's (MEQB) Power Plant Siting Rules
(Chapter 4400.5000 – Local Review of Proposed Facilities)**

5. *Project location*

**The project is located in Government Lot 2 in Section 22, Township 55N, Range 25W,
City of La Prairie, Itasca County, Minnesota.**

Attached is each of the following:

- County map showing the general location of the project; (**Attachment A**)
- U.S. Geological Survey 7.5 minute, 1:24,000 scale map indicating project boundaries (photocopy acceptable); (**Attachment B**)
- Site plan showing all significant project and natural features. (**Attachment C**)

6. *Description*

- a. Provide a project summary of 50 words or less to be published in the *EQB Monitor*.

The proposed project is an 115/23kV electrical substation in La Prairie, MN. The substation will replace an existing substation that has served the area for over sixty years. Based on the historical load growth, the proposed station will have adequate transformation capacity to meet the needs of the area for the next 20 years.

- b. Give a complete description of the proposed project and related new construction. Attach additional sheets as necessary. Emphasize construction, operation methods and features that will cause physical manipulation of the environment or will produce wastes. Include modifications to existing equipment or industrial processes and significant demolition, removal or remodeling of existing structures. Indicate the timing and duration of construction activities.

The proposed project is an 115/23kV electrical substation in La Prairie, MN. Currently there is no existing substation on the property. The new substation will replace an existing substation, which has served the Grand Rapids area for over sixty years. The Grand Rapids Public Utility Commission (GRPUC) and Minnesota Power (MP) jointly own the current substation. The GRPUC proposes to construct a new station, which will have adequate transformation capacity to meet the needs of the area for 20 plus years based on historical growth. The new site is approximately one-half mile to the northeast of the present site. The existing station will be

removed and the site will be remediated.

The proposed station will have two 50 MVA step-down transformers, one 23 kV switchgear, one control house, oil containment, three 115kV transmission lines, three 115 kV terminal structures, three 115kV circuit breakers in a ring bus arrangement. See attachment D for the line diagram. The GRPUC will own all of the land and improvements, control house, switchgear, and all distribution assets. MP will own one 23kV feeder.

MP will participate in and own the transmission assets of this substation. MP will also own all transmission lines and transmission line extensions. Changes will also be required to the three transmission lines. Two lines, MP's 20L and 29L, will effectively become shorter. The 20L and 29L lines will be reconnected to the proposed substation. The remainder of the 20L will be abandoned and removed. A new structure will be erected in the present right-of-way (ROW) to route the 29L line into the proposed station. The extension of the 29L line would be approximately 225 feet. The 20L line will enter from the north. This extension would be approximately 600 feet. The remainder of the existing 20L ROW, south of the 29L extension, will be used by the 23kV distribution circuits. The 11L line will be extended from its present intersection with the 29L line to the proposed station a distance of approximately 2,000 feet. The 11L line will reuse the existing 29L structures and the conductor in the existing ROW to the extension of the 29L line and then into the proposed substation. The length of the only new portion of the 11L line will be approximately 225 feet. The remainder of the 11L and the 29L lines leading into the existing substation will be removed. Approximately 1,100 feet of transmission lines will be added in the construction and about 5,660 feet of existing transmission lines will be removed. The proposed substation will be unoccupied and unattended.

The foundation plan and details are developed after receipt of the final apparatus and structure drawings from the vendors or manufacturers. Attachment E shows an elevation view of a typical equipment layout for this type of substation.

The control house, which serves as the housing structure for the 23 kV switchgear and related equipment, will be purchased prefabricated as a total package. The vendor will be required to provide proof of compliance with the Minnesota State Energy Code Chapter 7676.

Clearing will be limited to the construction limits of the station. Vegetation management activities will be utilized during construction. Attachment F shows the proposed landscaping at the site.

- c. Explain the project purpose; if the project will be carried out by a governmental unit, explain the need for the project and identify its beneficiaries.

The GRPUC proposes to construct a new station, which will have adequate transformation capacity to meet the needs of the area for 20 plus years based on historical growth. The load growth in the greater Grand Rapids area has increased such that summer loading exceeds the firm transformer capacity. The GRPUC substation now peaks at 34 MW. The load growth over the last six years has averaged about 4.5%. The load growth is expected to continue but at a more modest rate. Added transformation capacity is required to provide capacity and service to customers in the area.

In addition, the existing station was constructed in 1941. Although there have been upgrades over the years, much of the station equipment and structures are originals. A considerable amount of capital improvements would be necessary to bring the existing station to present day industry standards. Work in an energized station requires more engineering and field labor because of limited workspace, switching, transmission outage constraints, and the need to continue service to customers. The net result is that additions and improvements to a site of this vintage are costly.

The present substation area is adjacent to the Mississippi River and has experienced subsidence several times in the past ten years. Sheet piling was installed about eight years ago to slow this

subsidence. Soils engineers indicate that the present slope is stable and will continue to remain so for the foreseeable future. However, the slope may recede at any time depending on river flows, precipitation, or other activities. The edge of the slope plane extends into the substation yard. If the slope recedes any further, portions of the existing substation site would need to be abandoned. The GRPUC believes that the risk at this time is low, however, continued subsidence would impair maintenance of the substation. At this time, no electrical apparatus is threatened.

- d. Are future stages of this development including development on any outlots planned or likely to happen? Yes No
 If yes, briefly describe future stages, relationship to present project, timeline and plans for environmental review.

There are no plans in the foreseeable future to add any transformers or transmission lines to the proposed substation. The proposed station is designed to accommodate one additional position for either a transmission line or transformer. Based on historical load growth, the proposed station will have adequate transformation capacity to meet the needs of the area for the next 20 years. However, the possibility of additional capacity always exists and is dependent on meeting the future load growth and reliability needs of the utility.

- e. Is this project a subsequent stage of an earlier project? Yes No
 If yes, briefly describe the past development, timeline and any past environmental review.

7. Project magnitude data

Total project acreage **13.6 acres**

Indicate areas of specific uses (in square feet):

Office	N/A	Manufacturing	N/A
Retail	N/A	Other industrial	592,416
Warehouse	N/A	Institutional	N/A
Light industrial	N/A	Agricultural	N/A
Other commercial (specify)	N/A		

Building height **1) The proposed building height for the control house is 10 feet from the highest adjoining ground level, meeting the zoning ordinance requirements.**

Structure Height **2) The proposed structure height is 42 feet from the highest adjoining ground level to the highest point on a transmission tower. Since the structures are public utility facilities, they shall be permitted to exceed the height restrictions for the district provided the do not impair the solar access of building on adjoining properties and are not used for human occupancy or commercial enterprise.**

- 8. Permits and approvals required.** List all known local, state and federal permits, approvals and financial assistance for the project. Include modifications of any existing permits, governmental review of plans and all direct and indirect forms of public financial assistance including bond guarantees, Tax Increment Financing and infrastructure.

<u>Unit of government</u>	<u>Type of application</u>	<u>Status</u>
City of La Prairie	Environmental Review	In Process
	Building Permit	Post Environmental Review

- 9. Land use.** Describe current and recent past land use and development on the site and on adjacent lands. Discuss project compatibility with adjacent and nearby land uses. Indicate whether any potential conflicts involve environmental matters. Identify any potential environmental hazards due to past site uses, such as soil contamination or abandoned storage tanks, or proximity to nearby hazardous liquid or gas pipelines.

Currently the property is undeveloped. The three parcels located adjacent to T.H. 2 are zoned R1, One and Two Family Residence Districts, and the interior two parcels are zoned General Business (GB). Both of the zoning districts allow for power substations, as shown in the Attachment G.

The adjoining property to the south and west are zoned R1. Currently a mobile home park is located south of the proposed location. The adjoining property to the east is zoned R1, consisting of mostly wooded forest and single-family residential homes. The adjoining property to the north is undeveloped and zoned GB. There would be no potential conflicts from the proposed project in terms of land use since the proposed site lies along the existing transmission line route and the station will be surrounded by a wooded buffer zone.

There are no potential environmental hazards, such as soil contamination or abandoned storage tanks on the property due to past land uses.

10. **Cover types.** Estimate the acreage of the site with each of the following cover types before and after development:

	Before (sf)	After (sf)		Before (sf)	After (sf)
Types 1-8 wetlands	0	0	Lawn/landscaping	0	5,200
Wooded/forest	385,070	305,230	Impervious surfaces	0	10,800
Brush/Grassland	207,346	203,486	Other (Crushed Rock)	0	67,700
Cropland	0	0	TOTAL	592,416	592,416

11. **Fish, wildlife and ecologically sensitive resources**

a. Identify fish and wildlife resources and habitats on or near the site and describe how they would be affected by the project. Describe any measures to be taken to minimize or avoid impacts.

The proposed project will not affect the fish and wildlife resources. The impervious surface coverage is calculated at less than 2% of the project site. This is well below the allowed 60% maximum.

b. Are any state-listed (endangered, threatened or special concern) species, rare plant communities or other sensitive ecological resources such as native prairie habitat, colonial waterbird nesting colonies or regionally rare plant communities on or near the site? Yes No

A request has been made to the Minnesota Department of Natural Resources, Natural Heritage and Nongame Research Program to review the project area and determine if there are any occurrences of rare species or natural communities in the project area. (Attachment H)

12. **Physical impacts on water resources.** Will the project involve the physical or hydrologic alteration — dredging, filling, stream diversion, outfall structure, diking, and impoundment — of any surface waters such as a lake, pond, wetland, stream or drainage ditch? Yes No

If yes, identify water resource affected and give the DNR Protected Waters Inventory number(s) if the water resources affected are on the PWI. Describe alternatives considered and proposed mitigation measures to minimize impacts.

13. **Water use.** Will the project involve installation or abandonment of any water wells, connection to or changes in any public water supply or appropriation of any ground or surface water (including dewatering)? Yes No

If yes, as applicable, give location and purpose of any new wells; public supply affected, changes to be made, and water quantities to be used; the source, duration, quantity and purpose of any appropriations; and unique well numbers and DNR appropriation permit numbers, if known. Identify any existing and new wells on the site map. If there are no wells known on site, explain methodology used to determine.

The proposed facility will be unoccupied and unattended and will not require connection to the existing municipal public water supply. There are no existing wells on the property. This information was obtained from the Itasca County Soil & Water Conservation District, Grand Rapids, MN office.

14. **Water-related land use management district.** Does any part of the project involve a shoreland zoning district, a delineated 100-year flood plain, or a state or federally designated wild or scenic river land use district? Yes No
If yes, identify the district and discuss project compatibility with district land use restrictions.

No portion of the project area is located within the shoreland zoning district, 100-year flood plain or state of federally designated wild or scenic river land use district. See Attachment I.

15. **Water surface use.** Will the project change the number or type of watercraft on any water body?
 Yes No
If yes, indicate the current and projected watercraft usage and discuss any potential overcrowding or conflicts with other uses.

16. **Erosion and sedimentation.** Give the acreage to be graded or excavated. Describe any steep slopes or highly erodible soils and identify them on the site map. Describe any erosion and sedimentation control measures to be used during and after project construction.

Clearing and grubbing and grading will be limited to less than 3 acres. There will be no steep slopes located within the project area. According to the Itasca County Soil Survey, erosion losses on this type of soil are generally slight in nearly level areas. If protective plant cover is disturbed, however, the more sloping areas are easily eroded during heavy rains. Water erosion will be controlled through good land shaping and vegetation management techniques.

17. **Water quality: surface water runoff**
a. Compare the quantity and quality of site runoff before and after the project. Describe permanent controls to manage or treat runoff. Describe any stormwater pollution prevention plans.

The quantity and quality of runoff from the site will not change with the proposed project.

- b. Identify routes and receiving water bodies for runoff from the site; include major downstream water bodies as well as the immediate receiving waters. Estimate impact runoff on the quality of receiving waters.

The route and receiving bodies for runoff from the site would not change with the proposed project. The runoff from the site will be overland into the buffer zone surrounding the facility. The runoff then discharges into the T.H. 2 ditch system and ultimately into the Mississippi River.

18. **Water quality: wastewaters**
a. Describe sources, composition and quantities of all sanitary, municipal and industrial wastewater produced or treated at the site.

There will be no wastewater produced or treated on site.

- b. Describe waste treatment methods or pollution prevention efforts and give estimates of composition after treatment. Identify receiving waters, including major downstream water bodies, and estimate the discharge impact on the quality of receiving waters. If the project involves on-site sewage systems, discuss the suitability of site conditions for such systems.

N/A

- c. If wastes will be discharged into a publicly owned treatment facility, identify the facility, describe any

pretreatment provisions and discuss the facility's ability to handle the volume and composition of wastes, identifying any improvements necessary.

N/A

d. If the project requires disposal of liquid animal manure, describe disposal technique and location and discuss capacity to handle the volume and composition of manure. Identify any improvements necessary. Describe any required setbacks for land disposal systems.

N/A

19. **Geologic hazards and soil conditions**

a. Approximate depth (in feet) to ground water: **0 Feet** minimum **19 feet** average
to bedrock: **60 Feet** minimum **100 Feet** average

The information was provided by the Itasca County Soil and Water Conservation District, Grand Rapids, Minnesota, office. The water table information was obtained from well records on nearby properties. See Attachment J for well record details.

Describe any of the following geologic site hazards to ground water and also identify them on the site map: sinkholes, shallow limestone formations or karst conditions. Describe measures to avoid or minimize environmental problems due to any of these hazards.

N/A

b. Describe the soils on the site, giving NRCS (SCS) classifications, if known. Discuss soil granularity and potential for groundwater contamination from wastes or chemicals spread or spilled onto the soils. Discuss any mitigation measures to prevent such contamination.

The Itasca County Soils Survey indicates the presence of the following soils type within the project area: 158B – Zimmerman loamy fine sand, 1 to 8 percent slopes, and 780C – Itasca-Goodland silt loams, 2 to 12 percent slopes. Detailed soil information is included as Attachment K. These types of soil have moderate to rapid permeability. Their poor filtering capacity can result in the pollution of groundwater. The proposed project would use secondary containment measures to prevent chemicals from being spilled onto the soil.

20. **Solid wastes, hazardous wastes, storage tanks**

a. Describe types, amounts and compositions of solid or hazardous wastes, including solid animal manure, sludge and ash, produced during construction and operation. Identify method and location of disposal. For projects generating municipal solid waste, indicate if there is a source separation plan; describe how the project will be modified for recycling. If hazardous waste is generated, indicate if there is a hazardous waste minimization plan and routine hazardous waste reduction assessments.

The generation of solid waste during construction will be minimal. Any materials used for construction (e.g. forms for foundations, excess steel, etc.) as well as shipping crates and other solid waste items will be hauled off site by the contractor. Because the facility will not be staffed, little of no solid waste such as garbage, etc. will be generated. Any solid waste materials brought on site during maintenance of the substation will be taken away by company personnel.

Hazardous wastes will not be generated or used during construction of the substation. Universal wastes such as fluorescent bulbs or batteries in the control house during operation of the substation will be properly disposed of when necessary.

b. Identify any toxic or hazardous materials to be used or present at the site and identify measures to be used to prevent them from contaminating groundwater. If the use of toxic or hazardous materials will lead to a regulated waste, discharge or emission, discuss any alternatives considered to minimize or

eliminate the waste, discharge or emission.

Hazardous materials will not be generated or used during construction of the substation.

c. Indicate the number, location, size and use of any above or belowground tanks to store petroleum products or other materials, except water. Describe any emergency response containment plans.

The proposed project will maintain oil on the site. The two transformers will contain about 4,500 gallons of oil each. There is planned to be eleven instrument transformers on the site, each containing about 30 gallons of oil. A capacitor bank will also be installed that will contain approximately 36 gallons of oil.

The transformer tanks will provide the primary containment and foundations surrounding the transformers will provide secondary containment. The secondary containment will be a below grade catchments that will be open to the atmosphere.

The proper authorities will be contacted in the event of a spill to ensure emergency response containment plans.

1. Traffic.

Estimated total Average Daily Traffic (ADT) generated: **During construction, the site may see up to 40 vehicles per day. Normal operation would see 2 vehicles per week to the substation.**

Estimated maximum peak hour traffic generated (if known) and time of occurrence. **During construction, the site may see up to 10 vehicles per hour. Normal operation would see 2 vehicles per week to the substation.**

If needed, who will pay for any improvements on the road? **Improvements, if required, would be borne by the owners of the substation, GRPUC and MP.**

Provide an estimate of the impact on traffic congestion on affected roads and describe any traffic improvements necessary. If the project is within the Twin Cities metropolitan area, discuss its impact on the regional transportation system.

The entrance to the facility will be on Walter Avenue near Pleasant Avenue. The projected traffic would not affect congestion of the existing streets.

22. **Vehicle-related air emissions.** Estimate the effect of the project's traffic generation on air quality, including carbon monoxide levels. Discuss the effect of traffic improvements or other mitigation measures on air quality impacts.

The proposed project's traffic generation will have no significant impact on the air quality.

23. **Stationary source air emissions.** Describe the type, sources, quantities and compositions of any emissions from stationary sources of air emissions such as boilers, exhaust stacks or fugitive dust sources. Include any hazardous air pollutants and any greenhouse gases (such as carbon dioxide, methane, nitrous oxide) and ozone-depleting chemicals (chloro-fluorocarbons, hydrofluorocarbons, perfluorocarbons or sulfur hexafluoride). Also describe any proposed pollution prevention techniques and proposed air pollution control devices. Describe the impacts on air quality.

No stationary air emissions will be generated from the proposed substation.

24. **Odors, noise and dust.** Will the project generate odors, noise or dust during construction or during operation? Yes No

If yes, describe sources, characteristics, duration, quantities or intensity and any proposed measures to mitigate adverse impacts. Also identify locations of nearby sensitive receptors and estimate impacts on them. Discuss potential impacts on human health or quality of life. (Note: fugitive dust generated by operations may be discussed at item 23 instead of here.)

During construction, standard noise associated with heavy equipment operation will occur during excavation and grading operations. The impact should be minimal, since the grading and excavation will be completed in a short period of time. Dust could occur during site grading operations. If excessive, water will be used to control the dust. Construction activities will occur during normal working hours of contractors.

During operation, the proposed facility will meet the requirement of the Minnesota Pollution Control Agency Chapter 7030 Noise Pollution Control Rules. Specifically, the noise levels will meet Section 7030.0040, Subpart 1 and Subpart 2 “Noise Standards. Attachment L provides information on the calculated sound pressure levels. The L50 standard under these rules allows 50 dBA, continuously, during the hours from 10 p.m. until 7 a.m. Per the State of Minnesota’s “A Guide to Noise Control in Minnesota”, dated March 1999, a noise pressure level of 50 dBA is akin to normal conversation or a library setting.

25. **Nearby resources.** Are any of the following resources on or in proximity to the site?

Archaeological, historical or architectural resources? Yes No

Prime or unique farmlands or land within an agricultural preserve? Yes No

Designated parks, recreation areas or trails? Yes No

Scenic views and vistas? Yes No

Other unique resources? Yes No

If yes, describe the resource and identify any project-related impacts on the resource. Describe any measures to minimize or avoid adverse impacts.

A written request has been submitted to the state historical preservation office to determine the potential for archeological resources on the site. (Attachment M)

26. **Visual impacts.** Will the project create adverse visual impacts during construction or operation? Such as glare from intense lights, lights visible in wilderness areas and large visible plumes from cooling towers or exhaust stacks? Yes No

If yes, explain.

The proposed project includes transmission towers that will rise approximately 42 feet above the ground. These towers are similar in type to towers that are currently in the adjacent area.

27. **Compatibility with plans and land use regulations.** Is the project subject to an adopted local comprehensive plan, land use plan or regulation, or other applicable land use, water, or resource management plan of a local, regional, state or federal agency?
 Yes No. If yes, describe the plan, discuss its compatibility with the project and explain how any conflicts will be resolved. If no, explain.

The City of La Prairie allows power substations within the City limits. This type of land use is also allowed within the existing zoning district. A building permit is required and will be completed after the environmental review. The Planning and Zoning Commission may recommend the plans to the City Council for approval once all requirements are met and questions answered.

28. **Impact on infrastructure and public services.** Will new or expanded utilities, roads, other infrastructure or public services be required to serve the project? Yes No. If yes, describe the new or additional infrastructure or services needed.

29. **Cumulative impacts.** Minnesota Rule part 4410.1700, subpart 7, item B requires that the RGU consider

the "cumulative potential effects of related or anticipated future projects" when determining the need for an environmental impact statement. Identify any past, present or reasonably foreseeable future projects that may interact with the project described in this environmental assessment in such a way as to cause cumulative impacts. Describe the nature of the cumulative impacts and summarize any other available information relevant to determining whether there is potential for significant environmental effects due to cumulative impacts (*or discuss each cumulative impact under appropriate item(s) elsewhere on this form*).

There are no plans in the foreseeable future to add any transformers or transmission lines to the proposed substation. There are no present or reasonable foreseeable future projects that may interact with the project in such a way as to cause cumulative effects.

30. **Other potential environmental impacts.** If the project may cause any adverse environmental impacts not addressed by items 1 to 28, identify and discuss them here, along with any proposed mitigation.

a) Describe any potential health effects related to the substation that could be experienced by those living or working near the proposed electrical station.

Present public health studies associated with transmission and distribution lines have focused on electric and magnetic fields (EMF). EMF results from both the operating voltage of the power line and the flow of electricity through the conductor.

According to conclusions of the Minnesota Department of Health (see <http://www.health.state.mn.us/divs/eh/radiation/emf/>), "the current body of evidence is insufficient to establish a cause and effect relationship between EMF and adverse health effects. While some epidemiological studies have reported a weak association between leukemia with increasing exposure to magnetic fields, other studies have reported no association. Epidemiological studies alone are considered insufficient for concluding that a cause and effect relationship exists, and must be supplemented by data from laboratory studies. Existing laboratory studies have not substantiated this relationship (even at high exposure levels).

These conclusions are similar to the conclusions of scientific committees convened by the US Congress, and other international and national health agencies.

As with many other environmental health issues, the possibility of a health risk from EMF cannot be entirely dismissed. The MDH considers it prudent public health policy to continue to monitor the EMF research and to support prudent avoidance measures, including providing information to the public regarding EMF sources and exposures.

MDH and other state agencies are also working together to provide guidance for a consistent science-based EMF policy, including the identification of low cost no cost measures to mitigate EMF exposures."

High intensity electric fields can have adverse impacts on the operation of pacemakers and implantable cardioverter/defibrillator (ICD). Interference to implanted cardiac devices can occur if the electric field intensity is high enough to induce sufficient body currents to cause interaction.

The magnetic fields associated with 115kV lines are insufficient to cause problems for and are not an issue with pacemakers.

b) List any impact on radio or telephone communications in the area.

Transmission and distribution infrastructure can have impacts on radio/TV reception if not designed and maintained properly. For distribution facilities, the interference is typically the

result of loose hardware and is easily corrected by tightening clamps etc. if a complaint is received. For facilities operating at voltages greater than 100 kV such as transmission lines and transmission substations, radio/TV interference can be caused by corona discharge. However, this is typically not a concern at 115 kV provided conductors, bus work hardware are designed properly. The proposed facilities as designed would not be expected to have any adverse impact on radio/TV reception. The exception to this would be in close proximity to the facilities, (directly under the line or in the substation) and trying to receive weak stations. The proposed facilities will not have any adverse impacts on either wire based or wireless telephone communications.

- c) Will there be any interruptions expected when switching from the old substation to the new substation..

No interruptions are anticipated to any customers.

31. **Summary of issues.** List any impacts and issues identified above that may require further investigation before the project is begun. Discuss any alternatives or mitigative measures that have been or may be considered for these impacts and issues, including those that have been or may be ordered as permit conditions.

N/A

RGU CERTIFICATION.

I hereby certify that:

- The information contained in this document is accurate and complete to the best of my knowledge.
- The Environmental Assessment describes the complete project; there are no other projects, stages or components other than those described in this document, which are related to the project as connected actions or phased actions.

Signature

Date

Title