

Permit Application (*Alternate Form APA-001*)

What Is the Recharge Application Type? *Natural Flow*

Source Name (From Point of Diversion) *Gothenburg Canal from Platte River*

Diversion Type (From Point of Diversion) *Headgate*

Diversion Structure Name (From Point of Diversion) *Gothenburg Diversion Dam*

Maximum Capacity of Canal or Delivery Works (CFS) (From Point of Diversion) *400*

Quantity Desired for Recharge Appropriation (CFS) *100*

What is the Minimum Operational Rate of the Canal (CFS) *5*

What is the Earliest Diversion Date? *03/01/2024*

Will This Project Be Constructed under a Federal Program, Receive Federal Funding, or Have Federal Planning Assistance? *No*

Do You Intend to Divert Water into Recharge Facilities Other than Your Canal? *No*

Annual Operating Plan

General System Operations (*AOP*)

Yes

No

Do You Use This System to Irrigate?

Diversion Begin Date *04/15/2024*

Diversion End Date *09/15/2024*

Delivery to Irrigators Begin Date *07/01/2024*

Delivery to Irrigators End Date *09/15/2024*

Irrigation Narrative (optional) *In general, NPPD begins priming operations the third week of April and ends operations near the middle of September. Our rotational schedules for our customers call for irrigation deliveries to begin July 1st.*

Irrigation Use Uploads (Optional)

No files uploaded.

Yes

No

Do You Use This System to Generate Hydropower?

Yes

No

Do You Use This System for Storage?

Begin Date *04/26/2024*

End Date *10/31/2024*

Storage Narrative (optional) *Central Platte NRD contracts with NPPD to deliver water to B-1 Reservoir. Deliveries may begin once the canal is fully primed and end once the contracted volume has been delivered.*

Storage Use Uploads (Optional)

No files uploaded.

Narrative for All Non-excess Flow Activities That Would Affect the Ability to Divert Excess Flows (Optional) *Certain laterals will be available to recharge excess flow concurrent with deliveries to B-1 Reservoir storage.*

Partners & Sponsors


Sponsor 1

Name of Entity Paying for Recharge at this Facility *PRRIP*

Per Acre-foot Cost Basis for Recharge at This Facility *Recharged*

Max Volume per Annum *99999*

Upload Sponsor Documents

 [Wtr Srvc Agree Rchrg Exss Flws.pdf \[https://dssdnr.nebraska.gov/filedownload/128\]](https://dssdnr.nebraska.gov/filedownload/128)

Recharge Facilities (AOP)

Gothenburg Canal

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *Gothenburg Canal*

Type of Facility *Canal*

Delivery Point Coordinates

Latitude *40.97897*

Longitude *-100.2991*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *Cannot operate canal for recharge if: - Operating the canal for irrigation - Operating Canal to Deliver to B-1 Reservoir (certain laterals will be available). - Maintenance is occurring - Operations may cause the canal prism to freeze*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *100*

Delivery Rate (CFS)

Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. 100

Anticipated Maximum Annual Diversion (AF)

The upper limit of water diverted from the stream for this project facility. 10000

Maximum Operational Head (FT)

For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? 5

Maximum Water Surface Area (Acres)

For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. 120

Are Engineering Drawings Available?

No

Partners & Sponsors

- PRRIP** *(contract uploaded)*

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site

Gothenburg Canal Diversion Measurement Flume - DNR Operated

Geographic Coordinates of Measurement Device

Latitude

40.979

Longitude

-100.3

Recorder Type

Transducer

Recording Increments

15 Minute

Live Data Feed available to NeDNR?

Yes

Instrument 2 - Outflow

Name of Outflow Measurement Site

Main Canal Return

Geographic Coordinates of Measurement Device

Latitude

40.754

Longitude

-99.436

Recorder Type

Transducer

Recording Increments

15 Minute

Live Data Feed available to NeDNR?

Yes

Partners & Sponsors

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Name of Entity Paying for Recharge at this Facility *PRRIP*

Per Acre-foot Cost Basis for Recharge at This Facility *Recharged*

Max Volume per Annum *99999*

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