

NEBRASKA

DEPT. OF NATURAL RESOURCES

Nebraska Excess Flow Annual Operating Plan

Withdraw Application

Reset Application

Close

DSS Id: 50

Appropriator: Nebraska Public Power District

Address: PO Box 499 Columbus, NE 68602

Water Rights Id: 14548

Point of Diversion: Korty - South Platte River Supply Dam

Phone Number: (402) 362-7360

Permit Type: Temporary

Annual Operating Plan Year: 2024

E-mail: jtshafe@nppd.com

Permit Application (*Alternate Form APA-001*)

What Is the Recharge Application Type? *Natural Flow*

Source Name (From Point of Diversion) *Korty - South Platte River Supply Canal*

Diversion Type (From Point of Diversion) *Headgate*

Diversion Structure Name (From Point of Diversion) *Korty - South Platte River Supply Dam*

Maximum Capacity of Canal or Delivery Works (CFS) (From Point of Diversion) *1200*

Quantity Desired for Recharge Appropriation (CFS) *1200*

What is the Minimum Operational Rate of the Canal (CFS) *50*

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? *Yes*

How Many Recharge Facilities Will Be Utilized under This Application? *1*

Annual Operating Plan

General System Operations (*AOP*)

Yes

No

Do You Use This System to Irrigate?

Diversion Begin Date *01/01/2024*

Diversion End Date *12/31/2024*

Delivery to Irrigators Begin Date *05/01/2024*

Delivery to Irrigators End Date *09/30/2024*

Irrigation Narrative (optional) *Some irrigation occurs on lots around Lake Maloney*

Irrigation Use Uploads (Optional)

No files uploaded.

Yes

No

Do You Use This System to Generate Hydropower?

Begin Date *01/01/2024*

End Date *12/31/2024*

Hydropower Narrative (optional)

Hydropower Use Uploads (Optional)

No files uploaded.

YesNo

Do You Use This System for Storage?

Begin Date

01/01/2024

End Date

12/31/2024

Storage Narrative (optional) *Water is stored in Sutherland Reservoir and Lake Maloney*

Storage Use Uploads (Optional)

No files uploaded.

Narrative for All Non-excess Flow Activities That Would Affect the Ability to Divert Excess Flows (Optional) *Excess diversions could be capacity limited when the Keystone Diversion is operating.*

Partners & Sponsors


Sponsor 1

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

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

Max Volume per Annum *999999*

Upload Sponsor Documents

 [No Contract - Read Document.docx \[https://dssdnr.nebraska.gov/filedownload/136\]](https://dssdnr.nebraska.gov/filedownload/136)

Recharge Facilities (AOP)

South Platte River Supply Canal

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *South Platte River Supply Canal*

Type of Facility *Canal*

Delivery Point Coordinates

Latitude

41.115

Longitude

-101.474

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) *Occasionally the diversion cannot be operated due to cold weather conditions or due to maintenance.*

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. 1200

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. 1200

Anticipated Maximum Annual Diversion (AF)

The upper limit of water diverted from the stream for this project facility. 20000

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? ⁶

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. 460

Are Engineering Drawings Available? *No*

Partners & Sponsors

No sponsors

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Korty Diversion*

Geographic Coordinates of Measurement Device

Latitude

Longitude

Recorder Type

Recording Increments

Live Data Feed available to NeDNR? *No*

Sutherland Reservoir

Location & Capacity

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

Type of Facility *Reservoir*

Delivery Point Coordinates

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

Begin Date of Constraints (Optional): 01/01/2024

End Date of Constraints (Optional): 12/31/2024

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility)

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. 1200

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. 1000

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. 20000

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? 35

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. 3000

Are Engineering Drawings Available? No

Partners & Sponsors

No sponsors

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site

Geographic Coordinates of Measurement Device

Latitude

Longitude

Recorder Type

Recording Increments

Live Data Feed available to NeDNR? No

Maloney Reservoir

Location & Capacity

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

Type of Facility *Reservoir*

Delivery Point Coordinates

Latitude *41.039*

Longitude *-101.777*

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)

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. 1200

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. 1000

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? 15

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. 1600

Are Engineering Drawings Available? *No*

Partners & Sponsors

No sponsors

Instrumentation

No instrumentation

Partners & Sponsors

Sponsor 1

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

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

Max Volume per Annum *999999*

Upload Sponsor Documents

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