EAST RANGE WATER BOARD

Regular Meeting Wednesday, May 18, 2022 4:30 p.m. City/Town Government Center

Appointed Board Members for City of Aurora: Doug Gregor, Chairman of the Board; David Skelton; Dennis

Mike Larson (SEH); Miles Jensen (SEH); Kevin Young (SEH); Mia Thibodeau (Fryberger Law); Shannon Sweeney Other Team Members: Stefanie Dickinson (COA); Jodi Knaus (TOW); Wayne Thuringer (COA); Jim Gentilini (COA), Appointed Board Members for the Town of White: Jon Skelton, Vice Chairman of the Board; Clark Niemi; (David Drown Associates);

AGENDA

- Call to Order/Roll Call
- Consent Agenda:
- a. Approval of April 20, 2022 Meeting Minutes
- b. Treasurer's Report Fund Balances
- 0 Approval of Disbursements (Invoices for Approval as listed below)
- 1. St. Louis County Access Authorization (for Tree Cutting) \$936.52
- 2. MN Department of Health Plan Review Fee \$150.00
- 3. SEH \$7,744.00
- 4. East Range Shopper \$72,45
- d. Correspondence
- 1. MN Department of Health Plan Review Approval Report
- Legal Matters Updates Including but not limited to:

ψ.

- a. Scenic Acres Land & Facility Title Clearance
- b. St. Louis County Lease Status Intake Site
- . Guests No requests received
- 5. Engineering Updates SEH
- Funding Initiatives Updates by Mike Larson
- Engineering Work Updates by Miles Jensen
- 1. Review Status Report
- Scenic Questions
- 3. Bat Nesting Sites Tree Removal Update Authorization Approved by St. Louis County
- Community Outreach Plan tabled last month further discussion
- Contingency Plans Discussion David Skelton
- Project Labor Agreement David Skelton
- Other Business
- a. St. James Pit & Current Water Plant updates
- Practicality of Project Phasing Discussion Dennis Schubbe Memo
- 10. Next Meeting Date: Wednesday, June 15, 2022
- Adjournment

City/Town Government Center **Monthly Meeting Minutes** Wednesday April 20, 2022 East Range Water Board

PRESENT: Chairman, Doug Gregor; Secretary/Treasurer, David Skelton; Board Member Dennis Schubbe; Board Member, Clark Niemi;

ABSENT: Vice Chairman, Jon Skelton

Larson (SEH), Miles Jenson (SEH viz Zoom), Mia Thibodeau (Fryberger Law via Zoom) ALSO PRESENT: Jodi Knaus, Town of White Clerk; Stefanie Dickinson, City of Aurora Clerk & Treasurer; Jim Gentilini, City of Aurora Water Supervisor, Robert Rutka, Bill Maki, Chad Skelton, Mike

1.) A board meeting was called to order by Chairman Gregor at 4:30 p.m.

2.) Approval of Agenda & Minutes MARCH 16, 2022 MEETING MINUTES AS PRESENTED. MOTION CARRIED MOVED BY DAVID SKELTON, SUPPORTED BY DENNIS SCHUBBE APPROVING THE

3.) Legal Matters

- Scenie Acres Land & Facility Title Clearance Paul Kilgore, Fryberger Law continues to work
- <u>5</u> on clearing the title and ownership of the existing infrastructure in Scenic Acres. St. Louis County Lease Status - a draft of the Tax-Forfeited Land Lease Agreement between the Town of White and St. Louis County was distributed for review.

Guests: None

5.) Engineering Updates

Skelton, & Larson met with representatives of the PFA in St. Paul on April 4, 2022 and local ceremony in Chisholm on Friday; an application was also submitted for 2022; Gregor, Jon million will be received; Gregor & representatives of the Project will attend Klobuchar's Funding Initiatives - Mike Larson updated the Board the CDC application was successful as \$2.5 001 was reviewed. legislators to talk about the Project. The total cost of the Project was reviewed. Resolution 2022-

OPPORTUNITIES FOR 2022. MOTION CARRIED MAKE APPPLICATION TO AND ACCEPT FUNDS FROM THE FEDERAL MOVED BY CLARK NIEMI, SUPPORTED BY DAVID SKELTON APPROVING CONGRESSIONALLY DIRECTED SPENDING PROGRAMS & ANY OTHER RESOLUTION 2022-001 AUTHORIZING THE EAST RANGE WATER BOARD TO FEDERAL, STATE, OR LOCAL COMPETITIVE INFRASTRUCTURE FUNDING

ত্ৰ review. Response from Miles Jensen to Seenic Acres questions regarding emergency water flow Archaeological Assessment Agreement with Duluth Archaeology Center LLC was distributed for needed from St. Louis County: this will be done in August. The executed Phase IA Gentilini was Aurora Staff with Town of White's help can do this: Jensen indicated permission is SEH will mark the corridor and area that needs to be cut. Consensus of Stefanie Dickinson & Jim June 1 through August 15 time frame due to potential presence of the Northern Long Eared Bat. Engineering Work – Miles Jensen updated the Board he met with Chad Kohlstad; Status Report dated April 14., 2022 was reviewed. Tree cutting is necessary and must be conducted outside of

Louis County will not require a formal determination be made for the temporary wetland impacts. White response regarding wetland permits was distributed to the Board indicating MnDOT & St. between Biwabik and Aurora is still pending – Biwabik would like this answer also; Natalie

6.) Community Outreach Plan

City/Town staff may be able to do some or all of these tasks to keep costs down. It was also asked website for the Project could be www.EastRangeWater.com. This cost is higher than anticipated. MOVED BY DAVID SKELTON, SUPPORTED BY CLARK NIEMI TO TABLE TO NEXT what portions of these are already covered as part of the Agreement for Services with SEH. A proposal was reviewed by Kristen Peterson with the Board at a cost of \$29,570,00. MONTH. MOTION CARRIED

/.) Contingency Plans

bounce for the raft is ten to twelve feet. Once it is approved, then a meeting with Giants Ridge will David Skelton has been working on the Contingency Plan with the City of Biwabik. The Biwabik

8.) Treasurers Report

equipment only, not installation. be transferrable to the new water plant and Gentilini confirmed it would be; this invoice is for the Automation LLC was discussed in detail. Treasurer Skelton wanted assurance this equipment would between the two accounts. Invoices were presented for payment. Biwabik Fund has a balance of \$197,378.97 with a combined total funding balance of \$562,535.19 Treasurer Skelton shared the interim financing loan has an ending balance of \$365,156.22 and the The invoice from NOS

EQUIPMENT WILL BE TRANSFERRED TO THE NEW WATER PLANT. MOTION PAYMENT OF INVOICE #1202203010 IN THE AMOUNT OF \$18,256.62 OUT OF THE MOVED BY DAVID SKELTON, SUPPORTED BY CLARK NIEMI APPROVING INTERIM FINANCING ACCOUNT TO NOS AUTOMATION LLC BECAUSE THE

MOVED BY DOUG GREGOR, SUPPORTED BY DENNIS SCHUBBE APPROVING PERFORMED TASKS 2 THROUGH 4. MOTION CARRIED PAYMENT OF INVOICE #423541 IN THE AMOUNT OF \$704.00 TO SEH FOR SERVICES

MOVED BY DENNIS SCHUBBE, SUPPORTED BY CLARK NIEMI APPROVING WATER BOARD. MOTION CARRIED INSURANCE TRUST FOR PROPERTY/CASUALTY COVERAGE FOR THE EAST RANGE PAYMENT IN THE AMOUNT OF \$2,004.00 TO THE LEAGUE OF MINNESOTA CITIES

PAYMENT OF INVOICE #22438.000001.12203 TO FRYBERGER LAW FIRM IN THE MOVED BY DOUG GREGOR, SUPPORTED BY DENNIS SCHUBBE APPROVING AMOUNT OF \$2,942.00 FOR LEGAL SERVICES PERFORMED. MOTION CARRIED

9.) Correspondence Received

PFA Update Briefing Session Handout were reviewed and are to be placed on file The LMCIT Coverage Binder, a copy of the Thank You published in the East Range Shopper, and the

10.) Other Business

soon. A comfort level of cost needs to be found. Things are going to continue to increase in cost. A meeting on May 18, 2022. Dickinson & Gentilini would like to see the Project go out for bids very water study is on-going and winter dewatering approval has been received by the State and will begin April 19, 2022. Pit levels have risen six inches. Study on sulfates is currently happening. Gentilini invited the Board to tour the water plant. This will take place at 3:30 prior to the next a.) St. James Pit & Current Water Plant Updates - Stefanie Dickinson & Jim Gentilini updated the

City of Aurora needs to have discussions about what the comfort level is for gap funding. contingency plan needs to be put in place in case this Project cannot be funded. Gregor indicated the

- b.) Rate Analysis There is nothing new to report.
- c.) A sample timesheet was distributed and reviewed to begin using to submit hours for payment by non-elected officials.
- d.) Consent Agenda will be used in the future to reduce the agenda items.

(2.) Adjournment

MEETING AT 6:38 P.M. MOTION CARRIED MOVED BY CLARK NIEMI, SUPPORTED BY DAVID SKELTON TO ADJOURN THE

Next Regular East Range Water Board Meeting Date: May 18, 2022 at 4:30 p.m.

Respectfully Submitted, Jodi Knaus

8,902.97	Grand Total \$
936.52	ST. LOUIS COUNTY LAND & MINERALS \$
7,744.00	SEH \$
150.00	MINNESOTA DEPARTMENT OF HEALTH (MDH) \$
72.45	EAST RANGE SHOPPER \$
AMOUNT PAID	COMPANY
	May 19, 2022 Disbursements

ERWB - Interim Financing

Zevelide	DATE VENDOR	INCODIOTION		
Beginning Balance	2/2023	Interim Financing	\$	1,000,410.00
Ending Balance			w	1,000,410.00
Disbursements				
	DATE VENDOR	DESCRIPTION		
	7/16/2021 SEH	Wetlands	s	11.236.12
	7/21/2021 Steve Thorp	Prof. Liability Insurance	٠,	960,00
	7/25/2021 Building Rescue · Todd Koneczny	Professional Services	ţ	4,687.50
	8/16/3031 SEN BIOOD	ERWB Plan Review	ب	3,480.00
	9/6/2021 Building Rescue Todd Kongerny	Professional Carriers	>	16,184.00
	9/21/2021 SEH	ERWB Amendment 1		40 083 00
	10/15/2021 SEH	ERW8 Tasks 2-4	ς.	107,763.00
	10/21/2021 MN DNR Ecological & Water Resources	Water Permit	\$	150.00
	11/16/2021 cert	Legal Services 8/13 thru 10/13/2021	5	5,658.35
	12/10/2021 SEH	FRWA Tasks 2-4	~ V	119,032.00
	11/30/2021 St. Louis County Auditor	ERWB Parcel 100-0047-00090 Purchase	٠, ١	6 115 81
	1/19/2022 Steve Thorp	Plan Review ERWB 90% Completion	.	6,960.00
	1/26/2072 MN Dept. of Health	Watermains Plan	×	150.00
	1/26/2022 MN Dept. of Health	Freatment Plant Plan	₩.	1,000.00
	2/17/2022 Fryberger, Buchanen, Smith & Frederick	legal sevices through 1/31/2022	\$	2,989.50
	2/17/2022 SFH	ERVB Tasks 2-4	^	350.00
	3/14/2022 NYS	Geotechnical Reports	۰ ۰	36.370.00
	3/14/2022 SEH	ERWB Tasks 2-4	٠,	13,193.00
	3/14/2022 SEH	ERWB Tasks 2-4	ç	00.00
	ger, Buchanen, Smith & Frederick	Legal Services through 2/28/2022	\$	2,942.00
	4/20/2022 SEH	Property/Casualty insurance	\$	2,004.00
	5/18/2022 East Range Shopper	Thank you Ad	n 4	00.00
	5/18/2022 MN Dept. of Health	Pumphouse Review	s,	150.00
	5/18/2022 SEH	ERWB Tasks 2-4	❖	7,744.00
	5/18/2022 St. Louis County Land & Minerals	Tree Cutting	\$	936.52
Total Disbursements	The state of the s		ts	644,156.75
II IP	as of May 18, 2072	New York and the second	s	356,253.25
Blwobik Fund	beginning balance 10/20/2021		\$	203,577.59
-	DATE VENDOR	DESCRIPTION		
	1/1/2022 First Independent Bank - Russell	Interest Payment	\$	6,198.62
Biwabik Fund ending balance as of 5/18/2022	ance as of 5/18/2022		\$	197,378.97
OTAL ENDING BAL	LANCE Biwabik and Interim Financina combined i	rs of 5/18/2022		70
TAL ENDING BAL	TOTAL ENDING BALANCE Biwabik and Interim Financing combined as of 5/18/2022	rs of 5/18/2022	<u>ئ</u>	553,632,22



Land and Minerals Dept. • www.stlouiscountymn.gov • landdept@stlouiscountymn.gov

4/29/2022

RECEIVED

Land Commissioner Julie Marinucci

16 West 2nd Ave. North For the East Range Water Board Town of White

Aurora, MN 55705 P.O. Box 146

MAY 09 2022

CITY OF AURORA

Expiration Date: 9/1/2022 Type: Right of Way (05) Subtype: Other (99)

Access Authorization: A15220001

described under Legal Description for the purpose of site preparation and clearing of timber for construction of water intake facility with limitations and restrictions as listed below. This letter will serve as authorization for the above named and it's contractors to enter upon tax-forfelted land as

This letter must be avallable on-site when working on State tax-forfeited lands

Legal Description: SW% of NW% Section 5, Township 58N, Range 15W; SEE EXHIBIT B

Payment Amount: \$936.52

Limitations and Restrictions:

- sections as illustrated on the attached maps for the sole purpose described above. This authorization is limited to the established facility footprint on State tax-forfeited lands within the described
- $\dot{\sim}$ Access to the project area must utilize authorized access routes.
- Ψ Permittee must maintain or immediately repair any access that is located on an established road or trail.
- 4 conducted. The signs must be placed so that they are readily visible. involved in this contract, at least 200 feet on either side of where logging or hauling operations are being Precautionary signs must be posted and maintained by the GRANTEE at both ends of any segment of the trail
- ស Permit may be extended with prior written consent from the Land and Mincrals Department
- Ō Permittee agrees to pay timber damages as assessed by the Land and Minerals Department for the removal of merchantable timber located on the authorization site. SEE EXHIBIT A
- .7 Permittee agrees to follow US Fish & Wildlife requirements regarding the Long-Eared Bat and potential nesting sites thereof.
- œ any and all claims, demands, actions or causes of action of whatsoever nature or character arising out of or by Permittee agrees to indemnify, save, and hold harmless the County of St. Louis, its agents and employees, from reason of the execution or performance of the terms and conditions provided for in this authorization and

□Land Commissioner's Office 320 West 2nd Street, GSC 302 Duluth, MN 55802 (218) 726-2606 (218) 726-2600

☐ Pike Lake Area Office 5713 Old Miller Trunk Hwy Duluth, MN 55811 (218) 625-3700 ax: (218) 625-3733

■ Virginia Area Office 7820 Highway 135 Virginia, MN 557 (218) 742-9898 ⁻ах: (218) 742-9870 MN 55792

further agrees to defend at its own sole cost and expense, any actions or proceedings commenced for the purpose of asserting any claim of whatsoever character arising hereunder.

9
Additional *
Terms
\boxtimes
None if
checked

Extend Authorization to:	Enc: Exhibit A, Exhibit B Map	Land Department Representative
Approved by:	cc: Green Screen, AO, FO, GIS	Applicant
Date		Date



Office Use Only
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1 set of plan and specifications are required

Watermains

Wells, storage, booster stations, and water treatment plants

Interconnections 2 sets of plans and specifications are required

CITY OF AURORA

1 interconnection plan and hydraulic analysis are required

Minnesota Plans and Specifications Must Be Signed by a Professional Engineer registered in the State of

How to Submit Plans

St. Paul, Minnesota 55164-0975 **Drinking Water Protection-Plan Review** P.O. Box 64975 Minnesota Department of Health By U.S. Mail

By Courier service, etc.

Drinking Water Protection-Plan Review 625 North Robert Street Minnesota Department of Health

St. Paul, Minnesota 55155

Note: Multiple fees are required if more than one project type is included on one set of plans. This application must be completed and fee submitted before the plans will be reviewed

Review Fee by Project Type(s)

☐ Watermains \$150	☐ Interconnection
🛚 Pumphouse \$150	☐ Well \$250
☐ Treatment Plant \$1,000	☐ Chemical Feed \$150
Storage (Installation) \$300	☐ Treatment Plant (Renovation) \$250
☐ Booster Station \$150	☐ Storage (Coating) \$100

(Payable to Minnesota Department of Health) Total Fee Submitted \$ 150.00 under separate mailing

PLAN REVIEW FEE SHEET

Required Information

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fund loan project? 🗵 Yes
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□ No

Name of Project	Name of ProjectEast Range Raw Water Intake and Pump Station		
Project Location	City of Aurora, MN, and Town of White, Minnesota	St. Louis County	ounty
	City (If not incorporated, Township)	County	
Owner's Name	East Range Water Board		
Owner's Address	16 West 2nd Avenue North Aurora	S.	55705
	Street City	State	ZIP
Submitter's Name	Miles Jensen, PE; Shore Elliott Hendrickson Inc.		
Submitter's Address	3535 Vadnais Center Drive, St. Paul, MN 55110		
	Street City	State	ZIP
Submitter's Telepho	Submitter's Telephone Number (651) 775.5031	1	
Submitter's Email	Submitter's Emailmjensen@sehinc.com		

Minnesota Department of Health PO Box 64975
St. Paul, MN 55164-0975
651-201-4700
Fax 651-201-4701
health.drinkingwater@state.mn.us
www.health.state.mn.us

11/27/2017

To obtain this information in a different format, call: 651-201-4700. Printed on recycled paper.

Invoice Number: 426171

Short Elliott Hendrickson, Inc. FEIN: 41-1251208 | 651.490.2000 | 800.325.2055

RECEIVED

BILL TO: Altn: Accounts Payable
East Range Water Board
16 West 2nd Avenue North
AURORA MN 55705 CITY OF AURORA 14以17.2022

REMIT PAYMENT TO:

Short Elliott Hendrickson, Inc. PO Box 64780 Saint Paul, MN 55164-0780

Project Name ERWBD Tasks 2-4 East Range WTP Project Description
ERWBD Aurora Tasks 2-4 East Range WTP

Notes:

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lindsey@ci.aurora.mn.us cityclerk@ci.aurora.mn.us kimberly@ci.aurora.mn.us

Fee

Description

(90% of \$70,400.00) less previously billed of \$55,616.00

Amount

\$7,744.00

\$7,744.00

Invoice total

\$7,744.00

Project Billing Summary

Totals

Surrent Amount Due \$7,744.00 \$491,409.00 Previously Involced \$499,153.00 Cumulative

RECEIVED

INVOICE NO. ERS 042210

INVOICE DATE April 2022

East Range Water Board c/o City of Aurora P O Box 160 Aurora, MN 55705

:0T

CITY OF AURORA

TERMS: This sale is not being financed, NET payment is due the 10th of the month following purchase. Payments not received by the 30th day of the month following purchase will be in default and a charge of 1 1/2% per month (18% per annum) will be assessed against any delinquent account, \$2.50 per month minimum.

	OUR JOB NO.
4-11-22	BTAD
	YOUR P.O. NO.
10.5" Thank You	DESCRIPTION
72.45	AMOUNT



Protecting, Maintaining and Improving the Health of All Minnesotans

Division of Environmental Health PLAN REVIEW APPROVAL

Plan No. 220373, PWSID 1690002 Improvements and Raw and Finished Watermain Improvements, Aurora, St. Louis County, Plans and specifications on treatment plant (new): East Range Raw Water Treatment Plant

OWNERSHIP: Aurora, Minnesota 55705 Aurora City Council, c/o City Clerk, Aurora City Hall, 16 West Second Avenue North,

SUBMITTER(S): East Range Water Board, 16 West Second Avenue North, Aurora, Minnesota 55705

Short Elliott Hendrickson, Inc., c/o Mr. Miles B. Jensen, P.E., 3535 Vadnais Center Drive, St. Paul, Minnesota 55110

Date Received: February 1, 2022

Date Reviewed: April 15, 2022

below. Construction must be according to the plans and specifications provided to MDH APPROVAL: Based on the information provided to the Minnesota Department of Health (MDH) for review, this project is approved, contingent upon the project meeting all of the requirements listed

parts of the water system. The project designer is responsible for the project's features and equipment on MDH rules and applicable standards. This report applies to this project only, and not to any additional the drinking water and assumes the data on which the design is based are correct. Examination is based LIMITED SCOPE: This review is limited to the project design's effect on the safety and sanitary quality of effectiveness

changes are made. Otherwise, the construction will be considered installed without proper approval. ALTERATIONS: MDH must approve any changes that deviate from the approved plans before any

location. are listed in the requirements of this report. The project owner must retain the plans at the project INSPECTIONS: It is the responsibility of the owner or owner's agent to arrange for any inspections that

April 18, 2022 Plan No. 220373 Treatment Plant (New) PWSID 1690002 Improvements and Raw and Finished Watermain Improvements East Range Raw Water Treatment Plant

water and filter-to-waste water are collected in a backwash holding tank before being pumped to the natural gas generator. sanitary sewer through an air gap manhole. Backup power for the treatment plant will be provided by a inhibitor if needed. Sludge/drainage from the flocculation and sedimentation tanks as well as backwash powder activated carbon, gas chlorine and fluoride. Space is available for a future corrosion control to the distribution systems of Aurora and White Township. Chemical feeds include coagulant, polymer, with a baffling factor 0.5. The clearwell is connected to a 41,000 gallon wet well where water is pumped anthracite/silica sand media. Filtered water is then passed through a 73,200 gallon clearwell designed coagulation/rapid mix, flocculation, sedimentation with plate settlers, and filtration through for the City of Aurora and the Town of White. The plant consists of redundant treatment trains for The project consists of the construction of a new 800,000 gallon per day surface water treatment plant

washing machine hookup in the garage; mop sinks on each floor; multiple emergency eyewash/showers; miscellaneous hose bibbs and wall hydrants; roof drainage piping; and a natural gas fired water heater miscellaneous floor and trench drains; a gray water sump; reduced pressure zone backflow preventer; restrooms; a shower and sink in the shower room; sinks in the control room and breakroom; a sink and Plumbing for the treatment plant includes water closets, urinals, and lavatory sinks for two single use

plant and a new finished water transmission main for Pineville and Scenic Acres in the Town of White feet of 16-inch HDPE, 15 hydrants, 17 valves and a pressure reducing manhole with a bypass line The total watermain project includes the installation of 18,852 lineal feet of 12-inch HDPE, 19,051 lineal The project also consists of a new raw water transmission main from the Embarrass Pit to the treatment

The raw water intake station is not covered in this review.

Requirement(s):

Treatment Plant

- rooms. It is understood that the chlorine gas room will be individually vented The exhaust system for the gas chlorine room must not be interconnected with the other chemical
- 7 Smooth-nosed sample taps must be provided before and after any chemical addition
- $\dot{\omega}$ booster pumps will discharge above the trench drain. non-corrodible insect screen. It is understood the vacuum/air release valves for the high service and All vacuum/air release valves must discharge at least 18 inches above the floor and equipped with a
- 4. Chemical injection points must be located for ease of maintenance whenever possible

Plan No. 220373 Treatment Plant (New) PWSID 1690002 Improvements and Raw and Finished Watermain Improvements East Range Raw Water Treatment Plant

April 18, 2022

- 5 All sanitary sewer piping located less than 50 feet from potable water storage must be constructed of piping meeting the Minnesota Plumbing Code requirements for both water distribution and drain, waste and vent usage.
- Ò The treatment plant must be disinfected in accordance with AWWA C653
- 7. preconstruction meetings. In addition, the DWRF Program Coordinator must conduct a final Since this project is participating in the Minnesota Drinking Water Revolving Fund (DWRF), we inspection. Please contact Chad Kolstad, at 651-201-3972, when the project is ready for a final request that the project owner or owner's agent notify the MDH district engineer of any

Watermain

1. No additional requirements

Plumbing

- All plumbing shall be installed in accordance with Chapter 4714. All pipe, fittings, traps, fixtures, applicable standards referenced in the code (see Sections 301.2 and 1701.1). materials, and devices shall be listed or labeled by a third-party listing agency and comply with the
- \sim must meet Table 1002.2. All other floor drains must be installed within 25 feet of a vented branch or receptors must be individually vented. The trap to vent distance for individually vented floor drains All floor drains except emergency floor drains, tell-tale floor drains, and floor drains not used main (see Sections 418.2 and 1002.2).
- ώ Pipe materials used in the plumbing system must meet the following
- Water distribution piping must comply with applicable standards in Table 604.1
- Ö Drain, waste, and vent piping must comply with Table 701.2. If plastic pipe is used:
- i. ABS must meet ASTM D2661, F628, or F1488.
- =: PVC must meet ASTM D1785, D2665, F891, F1488 or F1760.
- Support above-ground horizontal pipes at each horizontal branch connection and at least every 4 feet. Above-ground runs must use approved expansion joints every 30 feet per Table 313.3.1.
- ₹. PVC solvent weld joints must use ASTM F656 purple primer and ASTM D2564 solvent

April 18, 2022 Plan No. 220373 Treatment Plant (New) PWSID 1690002 Improvements and Raw and Finished Watermain Improvements East Range Raw Water Treatment Plant

- 4 A cleanout is required near the connection of the building drain and building sewer (see Section 719.1).
- Ş If the water supply for the emergency eyewash extends through the bowl, the eyewash must discharge indirectly to the sanitary sewer.
- ò material and joints tested by filling with water to the flood level rim (see Section 423.1). Trench drains shall comply with ASME A112.6.3, ASME A112.3.1, or be constructed of watertight
- 7. of the floor or a safe place of disposal (see Section 608.5). temperature-rated material the same size as the valve outlet and must terminate within 18 inches devices in accordance with Sections 504.4, 504.5, and 504.6. Discharge piping shall be an approved Equipment used for heating water or storing hot water shall be protected by approved safety
- ∞ http://www.dli.mn.gov/sites/default/files/pdf/fs_backflow.pdf above the finished floor or ground level unless a permanent platform for access is provided annually, and records must be kept. Installations must be at least 12 inches and not more than 5 feet within 30 days of installation. Devices must be tested upon initial installation and not less than 603.5.23). The administrative authority must be notified prior to installation and the water purveyor and inspection program acceptable to the administrative authority is provided (see Section assemblies, or double check detector fire protection assemblies is permitted only when a testing vacuum breakers, spill-proof vacuum breakers, reduced pressure detector fire protection A backflow prevention fact sheet may be viewed at: The installation of reduced pressure principle assemblies, double check valve assemblies, pressure
- 9 Potable and nonpotable water distribution systems and outlets must be identified Section 601.3 per
- 10 The water distribution system shall be disinfected per Section 609.9
- 11 603.4.6, and Table 603.2) the last control valve at least 6 inches above the highest point of usage (see Sections 603.5.7, bibb type vacuum breaker; or an ASSE 1001 atmospheric vacuum breaker on the discharge side of ASSE 1052 non-removable hose bibb-type backflow preventer; an ASSE 1011 non-removable hose A hose thread water outlet without listed integral backflow prevention must be provided with an
- 12. Wall hydrants must meet ASSE Standard 1019 or ASSE 1053 (see Table 603.2 and Section 603.5.7).

April 18, 2022 Plan No. 220373 PWSID 1690002 Improvements and Raw and Finished Watermain Improvements Treatment Plant (New) East Range Raw Water Treatment Plant

- 13 The plumbing system shall be tested in accordance with Sections 609.4 and 712.0
- 14 Please contact the Minnesota Department of Labor and Industry to schedule plumbing related inspections

Note(s):

project component. project specification and identify which schedule(s) or determination(s) applies to each major prevailing wage schedule(s) and federal Davis-Bacon wage determination(s) are included in the (Women and Minority Business). The project engineer should verify that the proper Minnesota Davis-Bacon and State of Minnesota prevailing wages rates and Disadvantaged Business Enterprise This plan currently appears to conform to the paperwork requirements for the DWRF related to

not yet been completed. It is the project engineer's responsibility to make sure that all documents Disadvantaged Business Enterprise documents that are included in the project specifications have Davis-Bacon wage determination(s) as needed/required before lock-in dates. In addition, the The project engineer is responsible for updating the Minnesota prevailing wage schedule(s) and are satisfactorily completed.

2 requirements, please visit: owner's responsibility that these requirements are met. For further information about the AIS that the contract documents for this project address these provisions but it is ultimately the project and Steel (AIS) provision established in the America's Water Infrastructure Act of 2018. It appears All projects seeking funding through the DWRF must meet the requirements of the American Iron

http://mn.gov/deed/government/public-facilities/funds-programs/index.jsp

additional information may result in additional requirements. any construction takes place. While the project has been contingently approved, changed conditions or within the two-year period, plans and specifications must be resubmitted to MDH for approval before The approval is valid for two years from the date of this letter. If project construction has not begun

East Range Raw Water Treatment Plant

Improvements and Raw and Finished Watermain Improvements

PWSID 1690002

Treatment Plant (New)

Plan No. 220373

Page 6

April 18, 2022

at 65-201-3972 or chad.kolstad@state.mn.us. If you have any questions regarding information contained in this report, please contact me

Approved:

Ohed M. Killow

Chad M. Kolstad, P.E.

DWRF Program Coordinator

Section of Drinking Water Protection

P.O. Box 64975

St. Paul, Minnesota 55164-0975

CMK:bcl

Judy Tacheny, Minnesota Department of Labor and Industry

East Range Water Board

Mr. Miles B. Jensen, P.E., Short Elliott Hendrickson, Inc.

Michael Luhrsen, MDH Duluth

Jodi Knaus

From: Dan Hinzmann <dhinzmann@sehinc.com>

Sent: Thursday, April 28, 2022 4:44 PM

To: Julie Marinucci; Miles Jensen

S Jodi Knaus; Douglas Gregor (gregor@ci.aurora.mn.us); Mia Thibodeau

(mthibodeau@fryberger.com); Clark Niemi; dschubbe@outlook.com; David Skelton

(dps825@mchsi.com); Ellie Lemke

Subject: RE: East Range Water Project Tree Cutting Needs

Attachments: E Range Joint Water - Survey Exhibit for County Lease.pdf; E Range Joint Water - Aerial

Exhibit for County Lease & Clearing Limits.pdf

and know the content is safe. Caution: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender

Julie.

similar lease for their historic riverbed property. also included a signed survey exhibit formally describing the boundary. We are working with the DNR on securing a Please see attached for an exhibit describing the lease as well as the anticipated clearing limits for the project. I have

lease for Parcel A on the survey exhibit. Parcel B is for temporary construction access and staging. Please let us know if this gets you moving on establishing the lease. For what it's worth, we only require a permanent

Dan Hinzmann, PE (MN, WI), LEED-AP

Associate

Professional Engineer

SEH - Building a Better World for All of Us®

218.260.0798 mobile

Follow SEH on LinkedIn

collaborators SEH's Amazing Projects video showcases the amazing things we can do when we come together as partners and

From: Julie Marinucci <marinuccij@stlouiscountymn.gov>

Sent: Thursday, April 21, 2022 8:47 AM

To: Miles Jensen <mjensen@sehinc.com>

Cc: Jodi Knaus < jodi.knaus@townofwhite.com>; Dan Hinzmann < dhinzmann@sehinc.com>; Douglas Gregor

(gregor@ci.aurora.mn.us) < gregor@ci.aurora.mn.us>; Mia Thibodeau (mthibodeau@fryberger.com)

<mthibodeau@fryberger.com>; Clark Niemi <clark.niemi@townofwhite.com>; dschubbe@outlook.com; David Skelton

(dps825@mchsi.com) <dps825@mchsi.com>

Subject: RE: East Range Water Project Tree Cutting Needs

of time, we would have to charge timber damages for any merchantable timber. Let me ask around on this one. Miles-it would be cleanest to get the lease in place before we do any timber removal. If you need to get in there ahead

Julie (Varichak) Marinucci Director | Land Commissioner Land & Minerals

marinuccij@stlouiscountymn.gov

o: 218-742-9885

From: Miles Jensen < mjensen@sehinc.com >

Sent: Thursday, April 21, 2022 5:59 AM

To: Julie Marinucci < marinuccij@stlouiscountymn.gov>

Cc: Jodi Knaus < jodi.knaus@townofwhite.com>; Dan Hinzmann < dhinzmann@sehinc.com>; Douglas Gregor

(gregor@ci.aurora.mn.us) < gregor@ci.aurora.mn.us>; Mia Thibodeau (mthibodeau@fryberger.com)

<<u>mthibodeau@fryberger.com</u>>; Clark Niemi <<u>clark.niemi@townofwhite.com</u>>; <u>dschubbe@outlook.com</u>; David Skelton

(dps825@mchsi.com) <dps825@mchsi.com>

Subject: East Range Water Project Tree Cutting Needs

WARNING: External email. Please verify sender before opening attachments or clicking on links.

Hi Julie,

guessing that this work would come in advance of the final lease agreement being executed. there a process available where the ERWB could move forward with a tree-cutting process in the next month? I'm make way for construction of the serving water mains and pump station prior to June 1. Our question to you then is, is construction on that site prior to August 15, there would be a need to cut down the trees on the raw water intake site to for Long-Earred Bat nesting. Recognizing that the East Range Water Board (ERWB) may be in a position to start process, that no tree cutting can occur at the raw water intake site between June 1 and August 15 due to the potential As the water project has moved along, we have been informed by the US Fish & Wildlife, via our environment review

Thanks for your consideration of this matter.

Miles B. Jensen, PE

(AZ, CO, IA, IL, IN, KS, MD, MI, MN, MO, ND, NE, NM, OH, SD, TX, VA, WI)

Principal/Water Market Leader

S E T

Direct <u>651.490.2020</u> | Mobile <u>651.775.5031</u>

3535 Vadnais Center Drivel St. Paul, MN 55110-5196

main <u>651.490.2000</u> | fax <u>651.490.2150</u> | toll free <u>800.325.2055</u> | <u>www.sehinc.com</u>

 $\langle \cdot \rangle$

Proposed Lease Parcel A Description (St. Louis County):

east line of the Minnesota Department of Natural Resources tract according to the 6th Judicial District Minnesota, lying south of the south line of Lake Mine Road as described in Document Number Order File C2-02-603159, and lying north of the following described line: 1263303, on file and of record in the office of the St. Louis County Recorder, and lying east of the That part of Government Lot 5, Section 5, Township 58 North, Range 15 West, St. Louis County,

Minnesota Department of Natural Resources tract, and there terminating degrees 24 minutes 14 seconds West, 209.48 feet, more or less, to said east line of said minutes 46 seconds West, 67.37 feet; thence North 89 degrees 24 minutes 14 seconds West North 68 degrees 51 minutes 43 seconds West, 501.39 feet; thence South 00 degrees 35 00 minutes 54 seconds East, along said east line, 51.69 feet to the point of beginning; thence distance of 582.02 feet to the present shore of Sabin Lake; thence continue South 00 degrees 40.00 feet; thence North 00 degrees 35 minutes 46 seconds East, 67.37 feet; thence North 89 minutes 54 seconds East, assigned bearing, along the east line of said Government Lot 5, a Commencing at the northeast corner of said Government Lot 5; thence South 00 degrees 00

SEH Project	SEH Project AUROR159723	Revision Issue Description
Drawn By	wd	
Surveyed By	ts/mf	
Checked By	<u>ca</u>	

PROJ	EAST RANG	LEASE EXH
)JE(IGE	Ĭ Ĭ

AURORA, MINN



EAST RANGE WATER PROJECT STATUS REPORT

CITY OF AURORA & TOWN OF WHITE TASK 2 & TASK 3
EAST RANGE WATER BOARD SEH Project No. 159723

Friday, May 13, 2022

The following provides a brief discussion of the project status to date. The items in **BOLD** are new since the 4/14/2022 status report.

- DECISIONS AND/OR DIRECTION FROM THE ERWB AT THIS MEETING:

 1. Request Town of White to provide guidance for a response to 2.b.4. below.

 2. If SEH should delineate the area of tree cutting to assist the ERWB (Town of White) prior to the June 1 deadline?
- ယ Review and direction on SEH's Public Outreach Plan (Item 11)

\Rightarrow Task 2 – Final Design

- <u>a</u> WTP and Raw and Finished Water Main:
- Received MDH plan approval letter, dated April 15, 2022, for these two (2) projects.
- Raw Water Intake Building:
- Two (2) sets of 100% signed construction documents for the Raw Water Intake and Pump Station (RWPS) were submitted to the MDH on Tuesday, May 10, 2022. Communications with Chad Kolstad indicate the project approval date will be set to
- match the April 15, 2022 date.
- <u>O</u> Project Bid Dates:
- For the MDH submittals, the proposed project bid dates are just placeholders
- SEH also understands that the final determination for project schedule and bid dates will be made after the funding matters are settled.

$\overline{\mathcal{D}}$ Appropriations Permit

- SEH has submitted the draft the permit application.
- 12/17/2021 SEH received the following questions and information request from the DNR that SEH will respond to following discussions with the ERWB:
- Amount of groundwater to be appropriated for constructing the caisson/water intake. Include dewatering details, such as proposed receiving water (will it be pumped directly into the Embarrass Pit?). SEH will respond in the final response packet by sharing the dewatering
- N final response packet once it is finalized with the County.

 Water Supply Contingency Plans (or other agreements) for the City of Biwabik and Giants specification from the Raw Water Intake documents.

 Provide evidence of ownership, or control of, or a license to use, the riparian property where the water intake will be located. SEH will provide a copy of the SLC lease agreement in the
- ω the IRRRB. SEH still needs to update the draft contingency plan agreements for the City of Biwabik and Ridge that address potential impacts to their existing water supplies and mitigation for impacts
- 4. Details regarding impacts to the existing public access, such as if the plan is to alter/close the access and inform the public of changes. SEH would like to hear from the Town of White on a response that we can include in the final response packet.

 Changes that would be needed to the system if other municipalities are added on to the same
- Çī support service to Biwabik and Hoyt Lakes. service in the future. The Raw Water Pump Station and Intake have been physically sized to system. SEH will respond in the final response packet by stating. There will be no physical changes needed to the Raw Water Pump Station should Biwabik and/or Hoyt Lakes request
- \circ SEH will assemble the collection of responses in one (1) document as soon as all items are

- 3) Environmental Review:
- a) Minnesota State Historic Preservation Office (SHPO):
- archaeological assessment. The draft report recommends further a Phase I archaeological investigation. Received draft report from Duluth Archaeology Center, L.L.C. for the Phase la
- N anything of archaeological significance and responded to Duluth Archaeology Center. L.L.C. with the following opinions for discussion: SEH is not certain that a further Phase I archaeological investigation will encounter
- (1) SEH Notes: Virtually all of the water main work is on public ROW that has been Drive, south of HWY 135. passes through Pineville, on Lake Mine Road, on HWY 135 and on Scenic Acres ROWs. This is inclusive of all proposed water main work including that which previously disturbed for construction of the roadways and utilities that lie in those
- (N) features. manipulation over the years and not likely to possess undetected archaeological Aurora Public Works property that has seen a great deal of disturbance and SEH Notes: The site of the proposed Water Treatment Plant is located on the City of
- ධ SEH Notes: The Raw Water Intake and Pump Station is proposed to be constructed on the north side of Lake Mine, east of the boat landing.
- the 90-foot termination depth of the boring. feet of fill overtop of glacially deposited sands and gravels that extended to SEH Notes: Soil borings taken at the location determined there to be nine (9)
- =: significant elements. SEH Notes: With that amount of fill being applied across the area, a Phase I archaeological investigation will not be able to pick up on archaeologically
- SEH Notes: No portion of the proposed work will extend into the historic Embarrass River delineation
- SEH's request for edits to draft report:
- SEH would like to see the contents of the report edited to include research on the historic mining activities associated with the Embarrass Mine.
- survey activities that would be performed as part of a Phase I archaeological disturbed. Included in these discussions should be descriptions of the actual site SEH would like to see a discussion provided in the report prior to the investigation, and finally on all of these areas that have previously been, and quite significantly, Recommendations Section that describes IF further investigations were to be made, just what could be gained if a Phase I archaeological investigation were performed
- ဩ archaeological investigation would be an inefficient expense of time and money and SEH would like to see the recommendations changed to note that a further Phase I would more closely resemble an effort of "looking for a needle in a haystack"
- **£** SEH acknowledged that of course, through the execution of the project, should indications of burials are observed during any activities, the Minnesota Office of the State Archaeologist must be notified at 612/725-2411 or 612/725-2729. Local law enforcement must also be notified.
- 4 Duluth Archaeology Center. L.L.C. responded to these comments
- heavily disturbed for mining (like the 9' of fill at the pumping station area). The final report will clarify the lack of potential for buried artifacts in areas that were
- mounds exist. this area will have the pipelines constructed within the roadways and so, no from other portions of the historic Embarrass Riverbed. SEH indicated again that water line in the Pineville area as apparently there's reason to think burial mounds survey recommended to include a pedestrian walkover, near the south end of the The final report will be more specific about the Phase I archaeological investigation might be present in that area because they're known from areas about that distance

- $\odot \mathfrak{A}$ The final report is forth coming.
- SEH requested that Duluth Archaeology Center. L.L.C. provide a proposal, concurrent with the production of the final report, that identifies:
- What will the work will entail,
- What will it cost, and
- How soon can she get it completed.
- 9 Once the report is complete, it will be submitted to SHPO to complete the entire SHPO is expected to take 2-3 weeks after submittal. Environmental Review to the satisfaction of the MDH for DRWF funding. Response from

ত MPCA:

- The ERWB received a response letter on 1/3/2022. The letter provides guidance for storm water runoff that SEH is following in our preparing the project SWMPP.
- No further comments are needed.
- ೦ US Fish and Wildlife:
- SEH received email comments on 12/22/2021.
- species and designated critical habitat that may be impacted by this project. Specifically, for According to the comments received, SEH was directed to utilize the USFW Information for Planning and Consultation (IPaC) system to create an "official species list" of federally listed
- Rusty patched bumble bee, and the
- (2) Northern Long Eared Bat (NLEB):
- SEH completed this response on 1/11/2022
- ٩ Once all comments are received, SEH will prepare a summary letter to the MDH indicating the Environmental Review is complete.

4 **Building Official Review:**

- SEH submitted the 100% signed construction documents for the WTP to the BO on 2/11/2022
- SEH received a review letter from the BO on 2/1/2022 indicating approval
- 5 MDH Communications and Review
- See Item 1 above.

<u>ල</u> Project Schedule

- <u>0</u> <u>0</u> MDH Plan approval: Anticipated around May 13, 2022.
- MDH approval of Environmental Review: June 15, 2022.
- 90 Final Environmental Review posting to Newspaper and close of comment period: July 15, 2022.

 Task 3 - Permitting and Regulatory Approvals

 March 2020 – August 2022
- Task 3 Permitting and Regulatory Approvals Task 4 Bidding & Project Award Services

as the ERWB may direct

7 Scenic Acres:

- <u>a</u> Service agreement and connection fees between East Range Water Board and ScenicAcres yet to be determined.
- 9 SEH will respond to the Secenic Acres' question on the capacity to move water supplies between Aurora and Biwabik in each direction.

8 Pineville and Scenic Acres Water Main

An easement was presented to Rosa for the Scenic Acres water main section in the vicinity of the intersection of HWY 135 and Scenic Acres Road. No response back, yet copy of this easement agreement was conveyed to the COA/TOW this past week.

9

- SEH and COA/TOW plant operations staff have not met since the 1/11/2022 meeting
- Another Tech Meeting will not be scheduled until the raw water intake documents are complete

and we have response back from the MDH.

10) Tree Cutting Needs:

- Tree cutting must be conducted outside of the June $1-August\ 15$ time frame due to the potential presence of the Northern Long Eared Bat long-eared bat.
- 9 That means if the ERWB plans to move forward with construction of the water project this summer, all tree cutting should be completed before June 1.

 SEH will assist the ERWB with delineation of the area where construction is likely to impact trees.
- 90 not have to be hauled out - just cut down. The ERWB should plan to move forward with the tree cutting before June 1, 2022. The trees do
- <u>e</u> The Town of White received documents on 5/6/2022 to sign for an agreement with St. Louis County to cut trees down in the area of the project.

11) East Range Public Outreach

a) SEH awaiting direction from the ERWBD.

END.

LETTER REPORT:

TREATMENT SYSTEM, CITIES OF AURORA AND WHITE, ST. LOUIS COUNTY, MINNESOTA PHASE IA PRE-FIELD ASSESSMENT OF EAST RANGE JOINT WATER

Susan C. Mulholland April 28, 2022 Duluth Archaeology Center Report No. 22-11

INTRODUCTION

townsite associated with the Bangor and Embl general area topography is a mining landscap of water main along existing roads and 3.75 acres for the section 12 in the City of Aurora and the Town of White County, Minnesota (Figure 1). The project is located in System (ERJWTS), consisting of a treatment plant, pump A Phase IA pre-field assessment was requested for the F_0 ociated with the W sections 4n; and wa catment plant (Figure 3). Mairass Mine and includes the the project includes 1200 feet nt Water Treatment nd T58N R16W in in St. Louis

records were re archaeological sites in the vic features were a site database at the Off for review of the databases fo Pre-field assessment includes a request to viewed a ndica for priential for unrecorded archaeological sites. the n additton unrecorded historic properties. Topography and water recorded historic acrial photographs and historic land survey logist (OSA) was also reviewed for recorded archaeological sites and historic structures. The storic Preservation Office (MnSHPO)

REVIEW OF RECORDS HISTORIC PROPERTIES

was associated with development of the Bangor Mine to the west (1910-1918), as well as the short-It was platted in the early twentieth century; a few people still lived there in 1962. between the Bangor and Embarrass Mines and was originally called Cotton (Lamppa 1962:78-109). streets within Pineville are assumed to be remnants from the historic townsite. The townsite lies Pincville located in T58N R15W section 6. although the project is within an unverified site (Figure 4). No verified ard acological sites were previously recorded within the project boundaries, The site was not field verified, although the current Site 21SLIt is the "ghost town" of Early settlement

Mine, subsuming those workings (Lamppa 2004:224). the west and the Embarrass Mine (now Embarrass Mine Lake) excavated for the World War II effort lived Syracuse Mine (with very deep deposits). In the 1940s the Embarrass River was diverted The Embarrass Mine appears to be located on or near the earlier Syracuse

Esquagama and Little Esquagama Lakes reburied. Site 21SL0393 is a single burial mound maintained next to CS individual accidentally uncovered next to a house at the south side of the either human remains or surface mound features. Site 21SL0168 consists of remains from a single of Esquagama Lake to the south (Table 1). All three sites are Native American mortuary sites with Site 21SL0456 consists of two burial mounds about 1/8 mile part, between the south side of Pre-Contact archaeological sites recorded within the general vicinity are located on the shores All 4 on the east side of the lake; the materials were

Table 1. Recorded Archaeological Sites in General Area

SITE # / NAME	TYPE	LOCATION
21SL0168 / Esquagama Lake	single burial	58/16/34
21SL0393 / Esquagama Lake II	burial mound (1)	58 / 16 / 35
21SL0456 / Esquagama Lake III burial mounds (2	burial mounds (2)	58 / 16 / 34

elsewhere on this portion of the river old road to Aurora." of the current Embarrass Mine Lake (the former Embarrass Mine pit). An early dam is also reported major lakes in this o on the river, possibly for logging activities (Lamppa 1962:86). A bridge on the dam was "part of the 5, 6). The trail crossed the Embarrass River between Embarrass and Wynne Lakes, in the vicinity The Duluth-Vermilion The mid-1800s Genera The pi It is not know if the Duluth-Vermilion Trail crossed on the same spot or the Embarrass River: Esquagama, Embarrass, Wynne-Sabin (Figures that show frails/roads as well as structures/villages/homesteads at the ail is a travel/transportation route through the area, passing near the area is in the vicinity of a major trail route (Trygg 1966:sheets Office (GLO) survey notes (www.glorecords.blm.gov) were

the Wynne/Sabin Lake area had a portage route to the Pike River to the west/northwest (Luukkonen Historic accounts of early water transportation routes indicate that the Embarrass River in

Duluth-Vermilion Trail archaeological sites along the Embarrass River and the lakes is very high as a consequence of the is at the Height of Land Portage (21SLal) north of Sabin Lake. the Border Route through the Vermilion River. The connection between three major water drainages the east and via the Savannah Portage to the Mississippi River through Big Sandy Lake (Luukkonen The Pike River drains north into the Vermilion Lake complex and ultimately Crane Lake on The Embarrass River is part of the St. Louis River drainage, connecting to Lake Superior at The potential for unrecorded

original Embarrass River (and the earlier Duluth-Vermilion Trail) as well as the earlier Syracuse and Wynne Lakes, completely disturbing any remnants o present in 1941 but by 1948, the river has been rerouted through a diversion channel to the northwest 1940; the Embarrass River is within its original channel (Figure 7). (www.dnr.state.mn.us/maps/landview/index.html). Pineville is shown as sexted in place by July 4, The oldest historic aerial photographs on the MnDNR webpage are the 1940/1941 set The Embarrass Mine is then well developed and visit a logging dam/road bridge across the In the area between Embarrass the original stream route is still

REVIEW OF TOPOGRAPHY AND WATERWAYS

Mine is a potential historic property (post-Contact contexts). with the original Embarrass River would have been destroyed by mining activities, the Embarrass by the flooding of the former Embarrass Mine pit. Although any archaeological features associated adjacent to the western end of the eastern half of the project, is a man-made water feature formed drainage, used in the public media XXXX). The Height of Land indicated by drainage has good potential for Embarrass Lake in the south The project is partially squagama along the Wynne-Sabin Lake basin (William Latady, personal communication, Contact period and quite possibly the pre-Contact. Embarrass Mine Lake, Lake to the Portage north of Sabin Lake provides a connection to the Rainy Lake within unrecorded archaeological sites including burial mounds ynne Lake in the north. wouth). Several collections of artifacts have been reported in or adjacent whe original Embarrass River valley including This segment of the Embarrass River

of the area varies from rolling to steep hill slopes in some areas to flatter (possibly artificially) terrain at a finer contour interval (2 feet) than on the USGS topographic maps (10 feet). The topography The topography as mapped by LiDAR (www.dnr.state.mn.us/maps/mntopo/index.html) is

townsites throughout this area of the Mesabi Range indicate that post-Contact sites could be archaeological sites is lower. However, the intense mining activities and associated settlement of terrain. The project APE is not adjacent to original water features, so potential for pre-Contact for Pineville townsite; the area south of the highway is more open although still with some sloping steep slopes north of the lake. (Figures 9, 10). The eastern project area has flatter terrain east of Embarrass Mine Lake with more The western portion has steep slopes north of Highway 135,

CONCLUSIONS

streets within the townsite. In addition, the Embarrass Mi (mining, settlement) historic conte recorded in the mid-1800s in the vicinity of the Mine pit and part of the project is near the lakeshore. The Dult of the "ghost town" of Pineville (21SLlt); a portion of One recorded archaeological site is located within the ERJWTS properties adjacent to Embarrass Mine Lake and the Embarrass River. The site is unknown. high within the **ERJWTS** project, ind guding potentfal for unrecorded archaeological (ract (travel/trading) and post-Contact watc ke is formed within the Embarrass main will be along some of the Vermilion Lake Trail also was Tricd, consisting ct in Aurora and

a major feature associated with mining historic and has a high potential for water body form general vicinity. project, which indicates a between the Louis ecupat: Unrecorded surface features from mining activities while the lake/pit is itself flood Rainy itg the former Embarrass Mine pit. The area around the former mine ature (Hudak et al. 2002). In contrast, Embarrass Mine Lake is an artificial cential to symrecorded pre-Contact archaeological sites in yer drainages. Original waterways are of high potential for was a major travel/transportation route as it leads to a portage <u>hbarrass</u> **wake)** is located adjacent to part of the ERJWTS

associated with mining (including townsites) can be contributing elements to such a historic district. investigated or recorded (like the nearby Erie Mining Company as the Erie Mining Company Mining surface and subsurface archaeological sites and site features. The Embarrass Mine has not been Pineville townsite, although recorded, is not field verified or researched and appears to be Areas within the ERJWTS project appear to have significant potential for unrecorded Historic District). Roads, railroad grades, ore dumps, pits, shafts, and other features

historic sites such as farmsteads/homesteads. the potential to intersect pre-Contact Native American archaeological sites as well as possible (Embarrass Mine) periods. In addition, the portion of the water main south of Embarrass Lake has associated with both early mining (Bangor and Syracuse Mines) and the World War II mining

components of all types of archaeological sites. proposed should be conducted to identify surface features and subsurface deposits of archaeological associated settlement at Pineville. Field survey of suitable areas where ground disturbance is investigation should research the historic mining activities associated with the Embarrass Mine and the East Range Joint Water Treatment System in the City of Aurora and Town of White. The The investigation should consider where ground disturbance is proposed in relation to A Phase I archaeological investigation is recommended prior to ground disturbance for

headstones/memorials, human remains, offering Embarrass Lake. Archaeologist must be notified at 612/725-2411 or 612/723 If indications of burials are observed during and Burial mounds are probable in Indications of burials areas adjacent original water features, such as the Minnesota Office of the State Local law enforcement must also are not limited to graves,

REFERENCES

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Lamppa, M. G. 2004. Minnesota's Iron Country: Rich Ore, Rich Lives. Lake Superior Port Cities,

Mississippi. Dovetailed Press, Duluth... Luukkonen, L. 2006. Between the Waters: Tracing the Northwest Fail from Lake Superior to the

Notes. Sheets 17, 18, Minnesota Series. Self published Trygg, J. W. 1967. Composite Map of the United States nd Surveyors' Origi d Plats and Field

Minneapolis. Waters, T. F. 1977. The Streams and Rivers of Minns sola. University of Minnesota Press.

Copies Sent To:

Natalie White, SEH, Inc. Amanda Gronhovd, State A West perior Stree 328 West Kellogg Boulevard, St. Paul MN 55102 Suite 200, Duluth MN 55802.



Figure 2. ERJWTS project areas, Biwabik quadrangle (19





Figure 3. ERJWTS project areas (pi



Figure 4. Pineville archaeological site (21SLlt) in ERJWTS pro

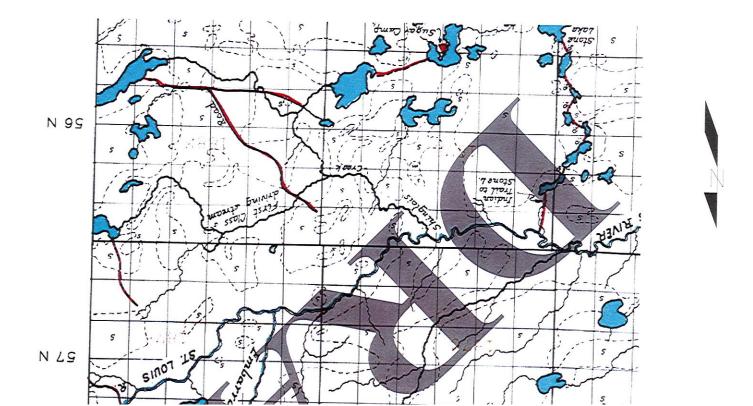


Figure 5. GLO cultural features in vicinity of project (Trygg 1966: sheet 18).

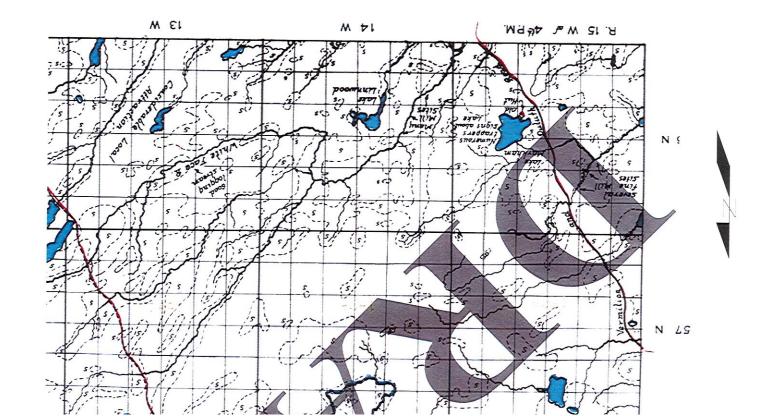


Figure 6. GLO cultural features in vicinity of project (Trygg 1966: sheet 17).

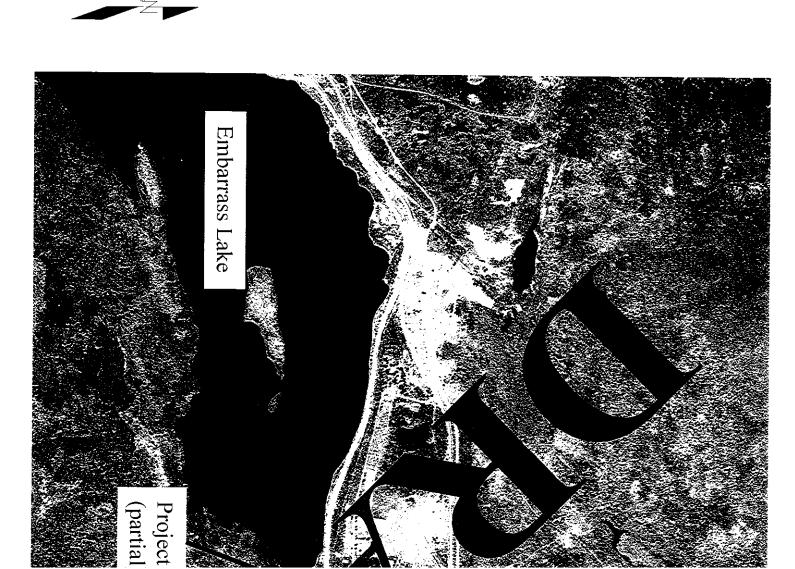


Figure 7. Historic aerial photogra From www.dnr.state.mn.us/maps/l

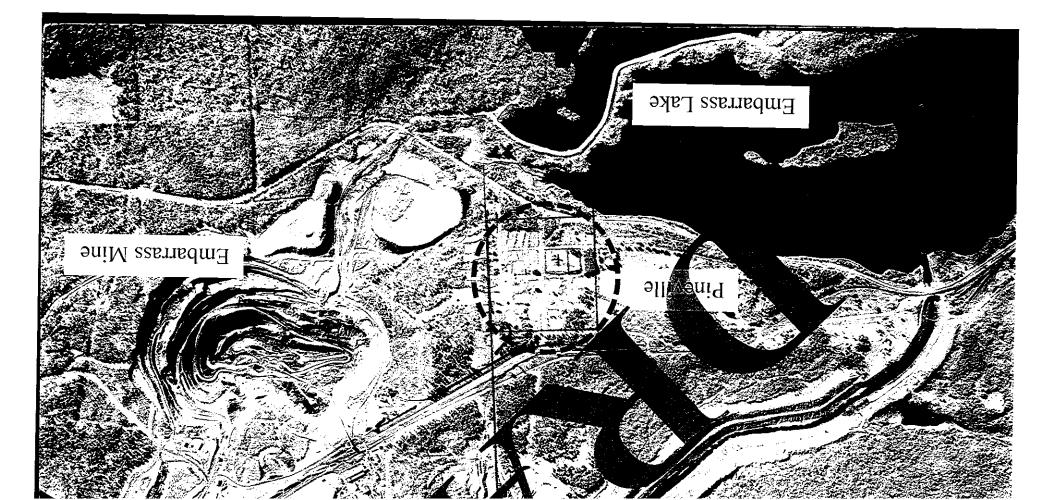


Figure 8. Historic aerial photograph SLC-40-44, September 22, 1948. From www.dnr.state.mn.us/maps/landview/index.html.



Figure 9. LiDAR topographic contours of ERJWTS project, east

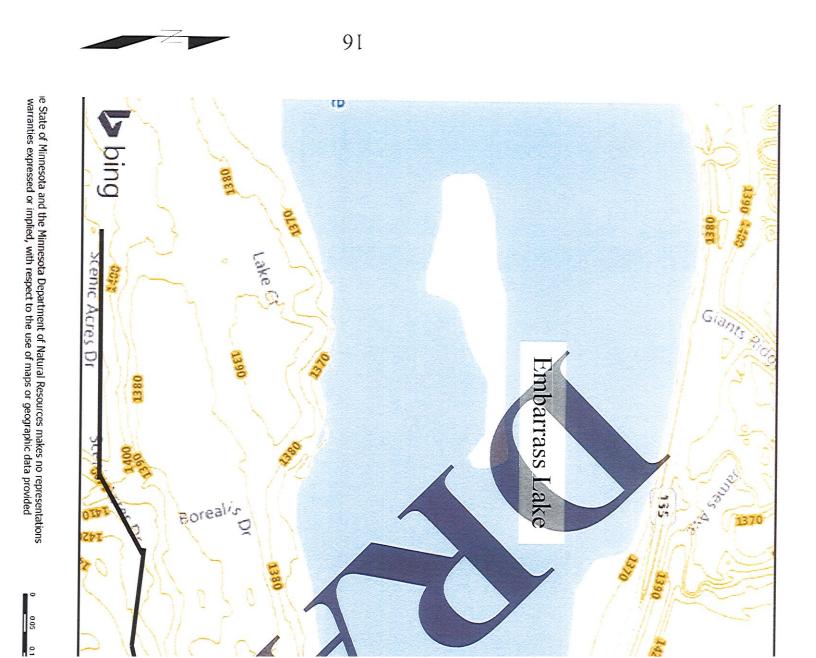


Figure 10. LiDAR topographic contours of ERJWTS project, wester

----Original Message----

From: Patricia's X Phone <pluke@accessmn.com>

Sent: Thursday, March 10, 2022 10:10 AM

To: Jodi Knaus < jodi.knaus@townofwhite.com>

Cc: jimluke <jimluke@accessmn.com>

Subject: Scenic acres on agenda

recognize the sender and know the content is safe. Caution: This email originated from outside the organization. Do not click links or open attachments unless you

Jodi,

Please add scenic acres to the agenda for the next water board meeting. The following are questions residents have

- Yes, there is a hydrant, with connecting pipe and valve planned at each of the two (2) cul de sacs. of cost estimate (100%). Is this item still included in the project, and if so, can you show us the item on the estimate? 1.) flushing hydrants at each end of the cul-de-sac, as far as we observe, are not included in the SEH preliminary opinion
- there are no customer service meters proposed to go with this project. 2.) Regarding meters that are to be installed... A.)What is the cost to consumer to be installed and purchased? Thus far,
- ultimately received. B.) what are usage fees once meters are installed? I.e. base fee to X amount of gallons, then what rate after base amount exceeded? The ERWB has not made a rate determination, yet and really depends on the level of grants
- 3.) Will base water rate be the same for all users? The ERWB will need to decide this
- fee) or assessed fee? The ERWB will need to decide this. 4.) Hook up fee, need clarification. Is the hook up fee to all scenic acres homeowners being grandfathered in, (waived
- 5.) we would like a comprehensive update on ownership/lease of the existing water system and infrastructure of Scenic Acres. The ERWB will need to address this.
- 6.) emergency water flow, able to pump water from new White/Aurora water system to provide flow to Biwabik system staff should address this.. if needed? Yes, I believe this is possible now, however, I am not certain of the transfer capacity. COA/TOW operations
- ways? COA/TOW operations staff should address this. How about Biwabik system providing water to White/Aurora system if situation should arise? Emergency use both
- 7.) What options would the Scenic Acres Homeowner's have if we determine that this opportunity to connect to the water system is not in our long-term interest? The ERWB will need to address this
- 8.) Q & A time if allowed. Discussion of above questions

Jim Luke 03/10/22

Sent from my iPhone



Land and Minerals Dept. • www.stlouiscountymn.gov • landdept@stlouiscountymn.gov

4/29/2022

Julie Marinucci Land Commissioner

Town of White
For the East Range Water Board
16 West 2nd Ave. North
P.O. Box 146
Aurora, MN 55705

Access Authorization: A15220001

Type: Right of Way (05) Subtype: Other (99)

Expiration Date: 9/1/2022

intake facility with limitations and restrictions as listed below. described under Legal Description for the purpose of site preparation and clearing of timber for construction of water This letter will serve as authorization for the above named and it's contractors to enter upon tax-forfeited land as

This letter must be available on-site when working on State tax-forfeited lands.

Legal Description: SW¼ of NW¼ Section 5, Township 58N, Range 15W; SEE EXHIBIT

Payment Amount: \$936.52

Limitations and Restrictions:

- sections as illustrated on the attached maps for the sole purpose described above. This authorization is limited to the established facility footprint on State tax-forfeited lands within the described
- 2. Access to the project area must utilize authorized access routes.
- w. Permittee must maintain or immediately repair any access that is located on an established road or trail
- 4 conducted. The signs must be placed so that they are readily visible involved in this contract, at least 200 feet on either side of where logging or hauling operations are being Precautionary signs must be posted and maintained by the GRANTEE at both ends of any segment of the trail
- 5 Permit may be extended with prior written consent from the Land and Minerals Department
- 6. Permittee agrees to pay timber damages as assessed by the Land and Minerals Department for the removal of merchantable timber located on the authorization site. SEE EXHIBIT A
- 7. Permittee agrees to follow US Fish & Wildlife requirements regarding the Long-Eared Bat and potential nesting sites thereof.
- ∞ reason of the execution or performance of the terms and conditions provided for in this authorization and any and all claims, demands, actions or causes of action of whatsoever nature or character arising out of or by Permittee agrees to indemnify, save, and hold harmless the County of St. Louis, its agents and employees, from

☐ Land Commissioner's Office 320 West 2nd Street, GSC 302 Duluth, MN 55802 (218) 726-2606 Fax: (218) 726-2600

☐ Pike Lake Area Office 5713 Old Miller Trunk Hwy Duluth, MN 55811 (218) 625-3700 Fax: (218) 625-3733

■ Virginia Area Office 7820 Highway 135 Virginia, MN 55792 (218) 742-9898 Fax: (218) 742-9870

further agrees to defend at its own sole cost and expense, any actions or proceedings commenced for the purpose of asserting any claim of whatsoever character arising hereunder.

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\$43.52		N		\$21.76		1 Cds	2 P/B		HITE	61 SPRUCE-WHITE
\$354.42		18		\$19.69		1 Cds	2 P/B			53 PINE-JACK
\$43.00		2		\$21.50		1 Cds	2 P/B		VAY	52 PINE-NORWAY
\$80.64		2		\$40.32		1 Cds	2 P/B		П	51 PINE-WHITE
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04-28-2022 Page 1 of 2

Stumpage Price Adjustment Factor: 1.00

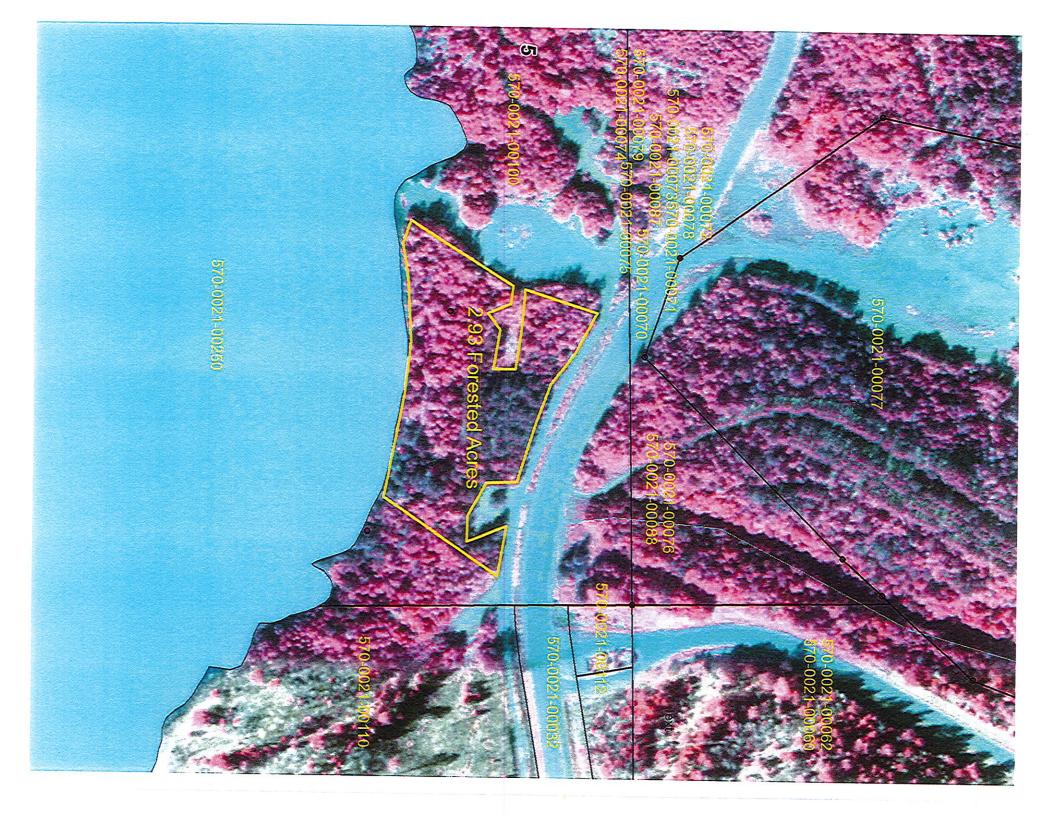
04-28-2022 Page 2 of 2

Base Market Prices

For 1/1/2021 to 12/31/2021

Species	Value		
- Posterior	(crds)	value	base Price
ASH	2007	\$10,874.24	\$5.42
ASPEN	76138	\$2,543,017.59	\$33.40
ASPEN-LARGETOOTH	178	\$3,970.00	\$22.30
BALM OF GILEAD	942	\$32,554.57	\$34.56
BALSAM FIR	8385	\$62,797.18	\$7.49
BASSWOOD	412	\$4,455.35	\$10.81
BIRCH	9668	\$86,243.19	\$8.92
MAPLE-RED	5297	\$30,926.98	\$5.84
MAPLE-SUGAR	737	\$5,300.67	\$7.19
MIXED PINE	386	\$1,930.00	\$5.00
OAK-RED	596	\$9,238.00	\$15.50
PINE-JACK	3106	\$61,167.08	\$19.69
PINE-NORWAY	8530	\$183,421.35	\$21.50
PINE-WHITE	1631	\$65,767.09	\$40.32
RESIDUALS	91	\$91.20	\$1.00
SPRUCE-BLACK	13079	\$322,042.10	\$24.62
SPRUCE-WHITE	3867	\$84,130.08	\$21.76
TAMARACK	3460	\$17,053.19	\$4.93
Total	138510	\$3,524,979.85	\$25.45







St. Louis County Land and Minerals Department - Exhibit B



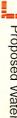
This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. This drawing is a compilation of recorded information and data located in various city, county, state and federal offices. St.Louis County is not responsible for any incorrectness herein.

Tax Forfeited Lands St. Louis County

Tax Forfeited Lands

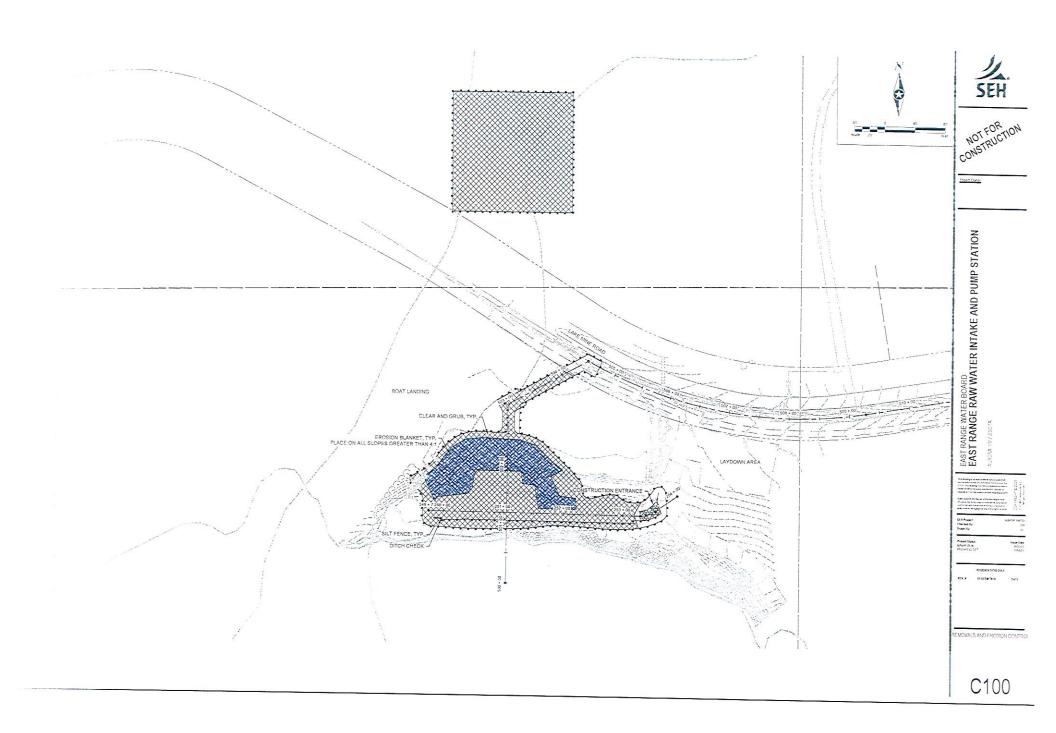
Full Interest

Undivided Interest





Proposed Water Intake Lease



East Range Public Outreach Proposal

3/27/2022

SEH P#: 159723 - Aurora

Understanding:

community support for a new drinking water supply and treatment system facility to assist with developing and implementing a public outreach strategy that is informative and builds The East Range Water Board along with the City of Aurora and Town of White are seeking a consultant

Background:

website: https://www.townofwhite.com/east-range-water-board.html Lakes, if so requested. Additional information and Project updates are available on the Township's engineered to anticipate accommodating the future treated water needs of both Biwabik and Hoyt year team to finance the local share of the Project costs. Major system components have been municipal bonds issued in the amount of between \$4 to \$5 million which will be repayable over a 30-Engineers, and the DIRRR. Water rates will increase over time to provide funds needed to pay off local have been awarded. Additional funding is being sought from Congress, the U.S. Army Corps of Infrastructure Fund is anticipated to help pay costs. Community Development Block grant funds also \$ 7.5 million have been approved for the Project and an additional \$ 5 million grant of State Water Embarrass Lake. The current Project cost estimate is \$ 24.4 million. State bond funds in the amount of the City and the Town of White and also will be extended to serve some Scenic Acres homes on Aurora water tower. The treated water will be distributed over the existing water distribution lines of Lake. Raw water will be piped from there to a new water treatment plant to be located next to the The new system's raw water intake facility will be located on the north side of the Embarrass Mine Pit

Approach:

The public outreach process will include:

- describes the needs for the project. A series of educational communications – starting at a high level, then increasing in detail that
- Empathetic messaging that recognizes the concerns of fixed-income and budget-sensitive families. Open dialogue with the community on funding, costs, and effect on customer rates.
- Periodic updates on schedule and project development

Outreach Strategies/Phases

- Phase 1: Raising Awareness
- the site. Website information will initially include: URL (www.EastRangeWater.com) and a QR Code to easily direct community members to updates throughout the process. All communications will include a link to the custom Develop a **Dedicated Project Website** — this will be the central hub for information and

- Facilities, Zebra Mussels & Rising Water in St. James Pit History, Background and Needs: Water Quality, Lowering Sulfate, Existing Aged
- \checkmark Create, build and maintain an email update contact list
- City of Aurora Snapshot updates
- ✓ Informative ad(s) in The Shopper
- community locations Lawn Signs and/or Sidewalk Decals with website address/QR code in high-traffic
- School's Electronic Messaging Sign
- Legislative 1-Pager
- Additional tools may also be considered, including
- Postcard mailing
- Water bill inserts
- Social media posts, as available

Phase 2: Pre-project bids, Funding & Costs Updates

- Update Website and Communications with
- Project Schedule and "Blue" Thermometer
- Project Costs
- Project Funding & Water Rates
- Share grant funds and bonding money awards
- Rate Survey of Iron Range Communities
- Share "Good News" revelations as they come, such as Earmark success event/communications
- < Additional service: Construction Kick Off Event/Groundbreaking Open House

Phase 3: Construction Updates and System Start-Up Communications

- Update Website and Communications with
- Periodic construction progress updates
- Emergency water quality communications
- What to Expect during System Start-Up
- Photos
- ✓ Additional service: Ribbon Cutting Event/Open House

Estimated Hours, Fees, and Expenses

Hourly rate

Project Management, Invoicing (24 months)

Develop, host, and maintain www.EastRangeWater.com website, 8 quarterly updates
Develop content and graphics for (8) quarterly communication updates (email, COA snapshot, Shopper, etc.)

Special communication materials (Lawn signs, sidewalk decals, EMS coord, legislative 1-pager)

Misc. Communications support as requested by ERWB

Hours by Staffperson Subtotal Fee by Staffperson Subtotal Total Project Hours Total Project Fees

l	Ex	рe	ns	e	s:

Mileage (2 trips at 400 miles each)
Website (Annual hosting and domain) 2 years
Sidewalk Decals and Lawn Signs

Printings and mailings covered by City of Aurora and Town of White

Total Expenses

Fees and Expenses

Miles	Kristin	Adrian
\$225	\$155	\$95
2	24	0
2	44	8
2	24	16
2	12	4
2	24	16
10	128	44
\$2,250.00	\$19,840.00	\$4,180.00
	182	
1	\$26,270.00	
	\$468.00 \$332.00	
	\$2,500.00 \$0.00	
	\$3,300.00	
	\$29,570.00	



for All of Us Building a Better World

TO City of Biwabik

FROM: East Range Water Board

DATE March 21, 2022

RE: Water Supply Contingency Plan Agreement SEH No. 163450 14.00

Water Supply Contingency Plan Agreement Water Appropriations Permit

Water Board ("ERWB"), and the City of Biwabik ("City"), and shall become an addendum to Water Appropriations Permit Number This Water Supply Contingency Plan Agreement ("Agreement") is being entered into the East Range

("DNR") Water Appropriations Permit to appropriate water from the Embarrass Pit (a.k.a. Lake Mine) for Whereas the East Range Water Board is being issued a Minnesota Department of Natural Resources its municipal water source as a replacement for Water Appropriations Permit

mitigating adverse impacts to the City's water intake that directly result from the ERWB's use of Embarrass Pit as a water source. The ERWB and the City agree that ERWB will be responsible for the reasonable costs associated with

City agree as follows: valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the ERWB and the Now, therefore, in consideration of the premises and covenants herein contained, and for good and

TERMS

- This Agreement will become effective upon the DNR's issuance of Water Appropriations Permit
- N and, if need be, execute the described mitigation plan: The ERWB and the City agree that the following steps and measures will be taken to monitor
- а Minnesota Department of Natural Resources (as they may require) the water level of Lake Mine on a weekly basis, beginning on The ERWB and City will independently monitor and mutually report to each party and the
- b withdrawal of water from Lake Mine on a weekly basis, beginning on Minnesota Department of Natural Resources (as they may require) their respective The ERWB and City will independently monitor and mutually report to each party and the
- 0 station as the time to establish Biwabik's effect on water level in Lake Mine The City of Biwabik will use the time prior to the start-up of the ERWB raw water pump

- d. The ERWB and City will meet quarterly to:
- status and any apparent changes in lake level. Review lake level, water withdrawal data – including that of the IRRR's Quarry Golf Course's water intake, and weather data to mutually conclude on the current
- Mutually conclude on the adequacy of the lake level for suitable operation of the Biwabik raw water pumping station.
- Mutually review and conclude on water level projections for the next 5-years
- Φ of Biwabik within a projecting period of 1 year, solely due to the lowering of the level in City of Biwabik's raw water pump station will loose it's ability to convey water to the City In the event that the level of Lake Mine is determined to be lowering to a point where the
- the ERWB will consult directly with City personnel, or its representatives, to determine and agree upon a mitigation plan as described below which shall be based on the direct impact of the ERWB's Permit on the City's water intake.
- =: associated with implementation of a mitigation plan for the Cities' water intake As part of that plan, ERWB shall be responsible for the reasonable costs system that either:
- pumping is feasible, or The Biwabik raw water pump station is moved to a position where proper
- N existing City of Biwabik raw water line. Redundant raw water pumps to serve the City of Biwabik's demands are installed in the ERWB raw water pump station and a new and separate raw water line is extended from the ERWB raw water pump station to the
- **≡**∶ Selection of the specific implementation plan to execute for the mitigation plan shall solely be at the discretion of the ERWB so long as the outcome provides the City with an equivalent supply of raw water from Lake Mine.
- က rate and/or volume allowed under the existing Permit are specifically excluded from this Any impacts that result from any amendment to Permit responsible for any impacts caused by any other water appropriations from the Embarrass Pit. rate and volume authorized under Water Appropriations Permit impacts to the Cities' water intake caused directly by the ERWB's water appropriations under the The ERWB and the City agree that ERWB's obligations under this Agreement are only for those that increases the appropriation , ERWB shall not be
- 4 the negotiation, execution and performance of this Agreement Each Party shall bear its own expenses, including but not limited to legal fees, in connection with
- \mathcal{C}_{i} responsibilities provided for herein without written consent of the other party No Party may assign or transfer, in whole or in part, any of its binding rights, obligations, duties or
- ರಾ Well Interference Problems Involving Appropriation prevent the parties from utilizing the DNR dispute process provided in MN Rules 6115.0730 shall be brought in a court of competent jurisdiction in Minnesota. Nothing in this agreement shall laws provisions. Any dispute that cannot be amicably resolved through consultation of the parties This Agreement shall be governed by the laws of the State of Minnesota, excluded its conflict of
- 7 simultaneous representations, discussions, negotiations, letters, proposals, agreements and This Agreement constitutes the entire agreement between the Parties and supersedes all prior or

ERWB and City of Biwabik Contingency Plan Agreement March 21, 2022
Page 3

out of any representation, warranty, or other statement not expressly set out in this Agreement. than those expressly set out in this Agreement and that it will not have any right or remedy arising approval process including obtaining authority by any representative body of the ERWB to execute this agreement and agree to have the ERWB bound by its terms. Each Party acknowledges and agrees that in entering into this Agreement it has not relied and is not relying on any representation, warranties, or other statements whatsoever, whether written or oral other in or addition to any of the terms or conditions of this Agreement shall be binding upon a Party unless in a writing signed and delivered by an officer of each Party intending to be bound by such change or addition. The ERWB acknowledges and agrees that it has undertaken the necessary understandings, whether written or oral with respect to the matters discussed herein. No change

 ∞ occurs and water levels in the Embarrass Pit have stabilized, for a period of not less than three years as shown by Embarrass Pit water level data. This agreement may be terminated at any time by the written agreement of all Parties. Upon approval by the DNR, ERWB shall have the right to terminate this agreement after drawdown

East Range Water Board	City of Biwabik
Ву:	Ву:
Name:	Name:
Title:	Title:

PRACTICALITY OF EAST RANGE JOINT WATER PROJECT PHASING

Dennis Schubbe 5/11/2022

Project go out for bids as soon as possible. given the poor condition of the current water plant and it's ability to continue to provide Aurora with water until the East Range Joint Water Project (the Project) is complete. Both Stefanie and Jim indicated they would like to see the updated the Board with regard to the City of Aurora's (Aurora's) current water plant. A sense of urgency was expressed During the April 20, 2022 East Range Water Board (the Board) meeting, Stefanie Dickinson and Jim Gentilini

Project costs (i.e., according to SEH's "Summary of Opinion of Probable Cost" dated January 10, 2022). the Project includes the following tasks: 1) construction new water treatment plant; 2) construction of the raw water that at a minimum, the Project scope of work that would need to be completed for Aurora to be provided with water via intake; and, 3) construction of the raw water transmission main. The cost of of these three tasks is almost 93% of total Presenting the entire Project scope was decided as the best option for obtaining the Project funding. It should be noted breaking up the Project scope of work into phases) or to present the entire Project scope for funding was discussed. Prior to my being appointed to the Board, the question of whether or not to proceed with a phased Project (i.e.,

State Bonding scope) to allow for a phased project. Harold indicated that an Amendment of State Law would most likely be necessary to change the Project scope (i.e., funds (hopefully \$8 vs \$5 million) are based on the **entire** East Range Joint Water Project scope (not a phased project). funds currently earmarked for the East Range Joint Water Project (\$7.5 million) and additional/requested State Bonding State Bonding funds to be released and their project (phase 2) to be completed. It should be noted that State Bonding accessed until their project was completely funded. Ely subsequently obtained additional funding which allowed for being obtained. Ely had access to funding to initiate their project (phase 1), but State Bonding funds could not be partially completed (e.g., defined here as phase 1) and subsequently completed (e.g., phase 2) upon additional funding Harold Langowski, City of Ely Clerk/Treasurer, to discuss project phasing. Harold and I discussed an Ely project which was in phases has been used as an example of using phasing of a scope of work to help expedite the Project. I contacted Project approach could expedite Project completion has been considered. A City of Ely (Ely) project that was completed Given the urgency with regard to the Aurora's current water plant, the question as to whether or not a phased

dependent upon State Bonding funds. the Project would need to be completed to provide Aurora with water via the Project and associated Project funding is funds cannot be accessed/released until the Project is fully funded. Project phasing is not practicable given that 93% of would need to be completed/spent in order for Aurora to be provided water via the Project. Note that State Bonding Project scope or over \$20 million of estimated Project costs (i.e., including Construction Admin/Observation costs) expedite the Project) and funding source requirements are met (e.g., U.S. products/steel required). However; 93% of The Project could proceed similar to Ely's example if funding were available (e.g., Aurora had funds available to

support the need/urgency for obtaining additional funding assuming Project bid costs are greater than Project estimated can be provided to Aurora until the Project is complete. costs. Again, Aurora's contingency planning is critical given the urgency expressed to the Board and to ensure that water construction delays due to materials and equipment availability. Aurora's contingency planning is critical and may help possibly increasing Project costs (i.e., bid amounts may be greater than estimated costs) and causing Project construction. In addition, current inflation rates and supply chain issues will most likely negatively impact the Project Project moves forward because it could take as long as three (3) years to obtain funding, bid the Project, and complete to be put in place in case the Project cannot be funded. I believe a contingency plan should be put in place even if the with water until the Project is a concern. As indicated during the April 20, 2022 Board meeting, a contingency plan needs The sense of urgency given the poor condition of the Aurora's water plant and it's ability to continue to provide Aurora