

State Planning and Research Program Quarterly Report

PROJECT TITLE: *Salt Shed Design Template*

OBJECTIVES: The purpose of this project is to develop three salt shed scalable designs that can be used as templates by agencies for a variety of sites. The designs will consider a number of factors including code adherence, incorporation of state and federal regulations associated with environmental and related concerns, pad design, material selection options, construction techniques, and easy design modification.

PERIOD COVERED: April 1 – June 30, 2023

PARTICIPATING AGENCIES: Minnesota Department of Transportation and the Clear Roads Technical Advisory Committee

PROJECT MANAGER:
Hafiz Munir / Tom Peters

SP&R PROJECT NO:
MnDOT Contract No.
1044530

PROJECT IS:

☐ Planning
☒ Research & Development

LEAD AGENCY: MnDOT

Federal Project Number:
TPF-5(353)

PRINCIPAL INVESTIGATOR:
Wilfrid Nixon

ANNUAL BUDGET: \$83,326
Project budget: \$124,989

PROJECT EXPENDITURES TO DATE: \$94,759.50

WORK COMPLETED:

- Task 1 – Literature Review: A final version has been prepared.
- Task 2 – Survey of Practice: The survey was conducted, and the information was collected into a report, and delivered in July 2022. A meeting was held to discuss this with the advisory committee.
- Task 3: Design Analysis and Recommendations: Using information from the literature review, the design analysis has been conducted. A report was submitted to the TAC and has been approved by them.
- Task 4: Scalable Design for Salt Storage Sheds: The three sets of scalable designs together with accompanying design documents are being prepared. The salt storage sizing spreadsheet and guide for use of the same is in development.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Task 4 – Scalable Design for Salt Storage Sheds: The three sets of scalable designs together with the salt storage sizing spreadsheet, the guide for the use of the spreadsheet, and accompanying design documents will be prepared and collated into a memo for the TAC during this quarter.
- Task 5 – Final Report and Webinar: The final report will be outlined, and material from tasks one, two and three will be collated into the final report format during this quarter.

STATUS AND COMPLETION DATE:

As noted in prior QPRs a revised schedule has been approved, but we're waiting for the executed amendment. The revised schedule will be:

Task	Current Task Start Date	Current End Date for Task Approval	Revised Task Start Date	Revised Due Date to Submit Draft Deliverables	Revised End Date for Task Approval
1	1/5/2021	5/15/2021	1/8/2021	8/31/2021	10/31/2021
2	4/1/2021	10/15/2021	7/31/2021	1/31/2022	3/31/2022
3	8/1/2021	1/15/2022	5/31/2022	12/31/2022	2/28/2023
4	1/1/2022	5/15/2022	11/30/2022	9/30/2023	11/30/2023
5	3/1/2022	7/15/2022	2/1/2023	10/31/2023	1/31/2024