

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 several 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: July 1 – September 30, 2022

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
Federal Project Number:
TPF-5(353)

PROJECT IS:

 Planning
 Research & Development

LEAD AGENCY: MnDOT

PRINCIPAL INVESTIGATOR:
Wilfrid Nixon and Associates

ANNUAL BUDGET: \$83,326

PROJECT EXPENDITURES TO DATE: \$ 72,173.50

WORK COMPLETED:

- Task 1 – Literature Review: A draft 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 started. The spreadsheets for calculating pile sizes as a function of the quantity of salt to be stored are undergoing verification. A list of factors that will require consideration as part of the analysis and additional information on each of these factors is close to completion.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Task 3 – Design Analysis and Recommendations: The design analysis and recommendations are being developed into a report that will be delivered to the technical advisory committee during this next quarter. Upon approval of the analysis and recommendations, task 4 will be started.

STATUS AND COMPLETION DATE:

As noted in prior QPRs a revised schedule has been approved. The schedule is:

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	1/31/2022	6/30/2022	8/31/2022
4	1/1/2022	5/15/2022	5/1/2022	8/31/2022	10/31/2022
5	3/1/2022	7/15/2022	7/1/2022	11/1/2022	1/1/2023