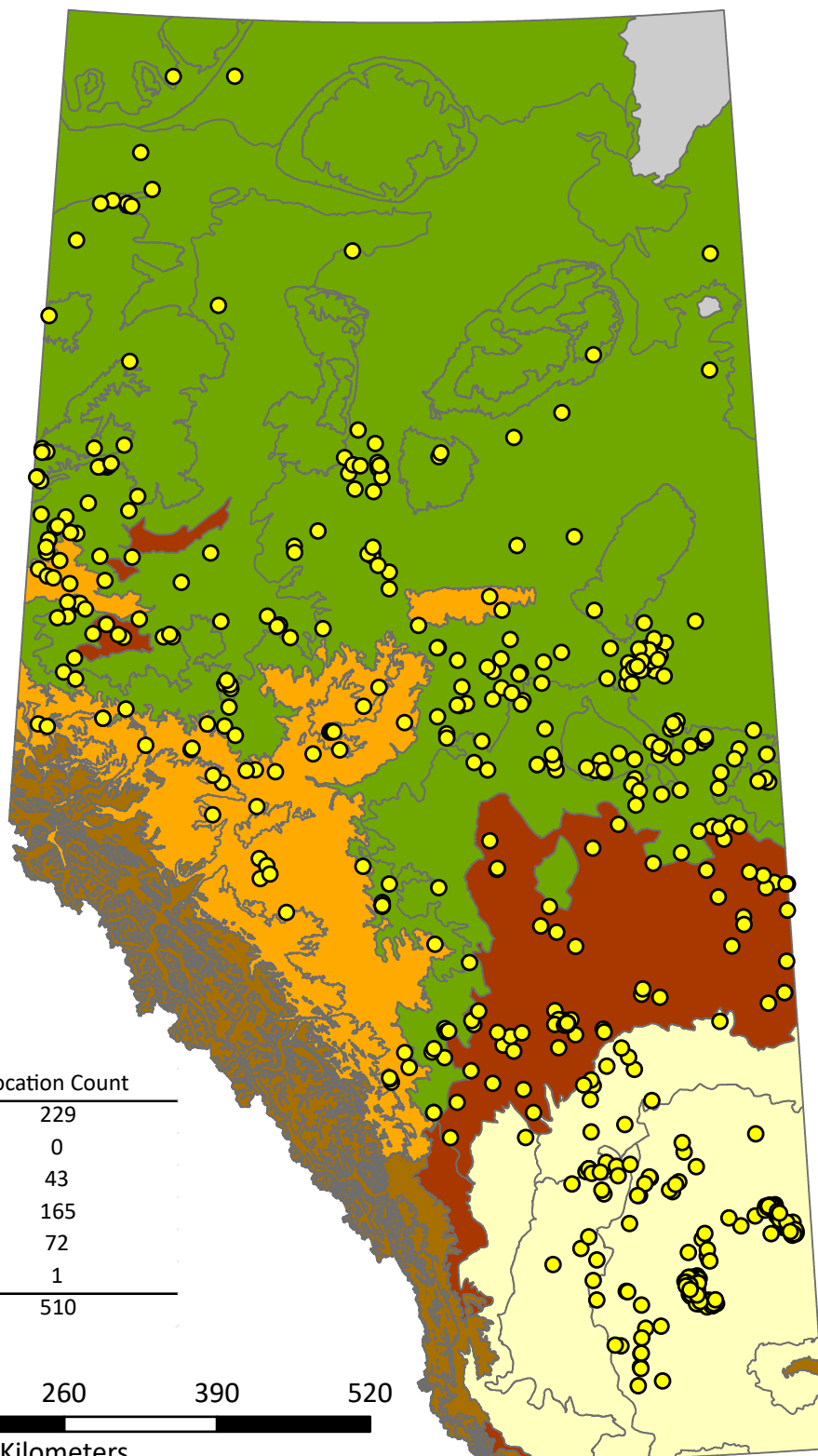




FIGURES



Natural Region	Location Count
Boreal	229
Canadian Shield	0
Foothills	43
Grassland	165
Parkland	72
Rocky Mountain	1
Total	510

0 65 130 260 390 520
Kilometers



NORTH SHORE
Environmental Consultants
143, 201 Kaska Road
Sherwood Park, Alberta
T8A 2J6
(780) 467-3354

Natural Regions of Alberta








-  Boreal
-  Canadian Shield
-  Foothills
-  Grassland
-  Parkland
-  Rocky Mountain
-  Candidate Locations

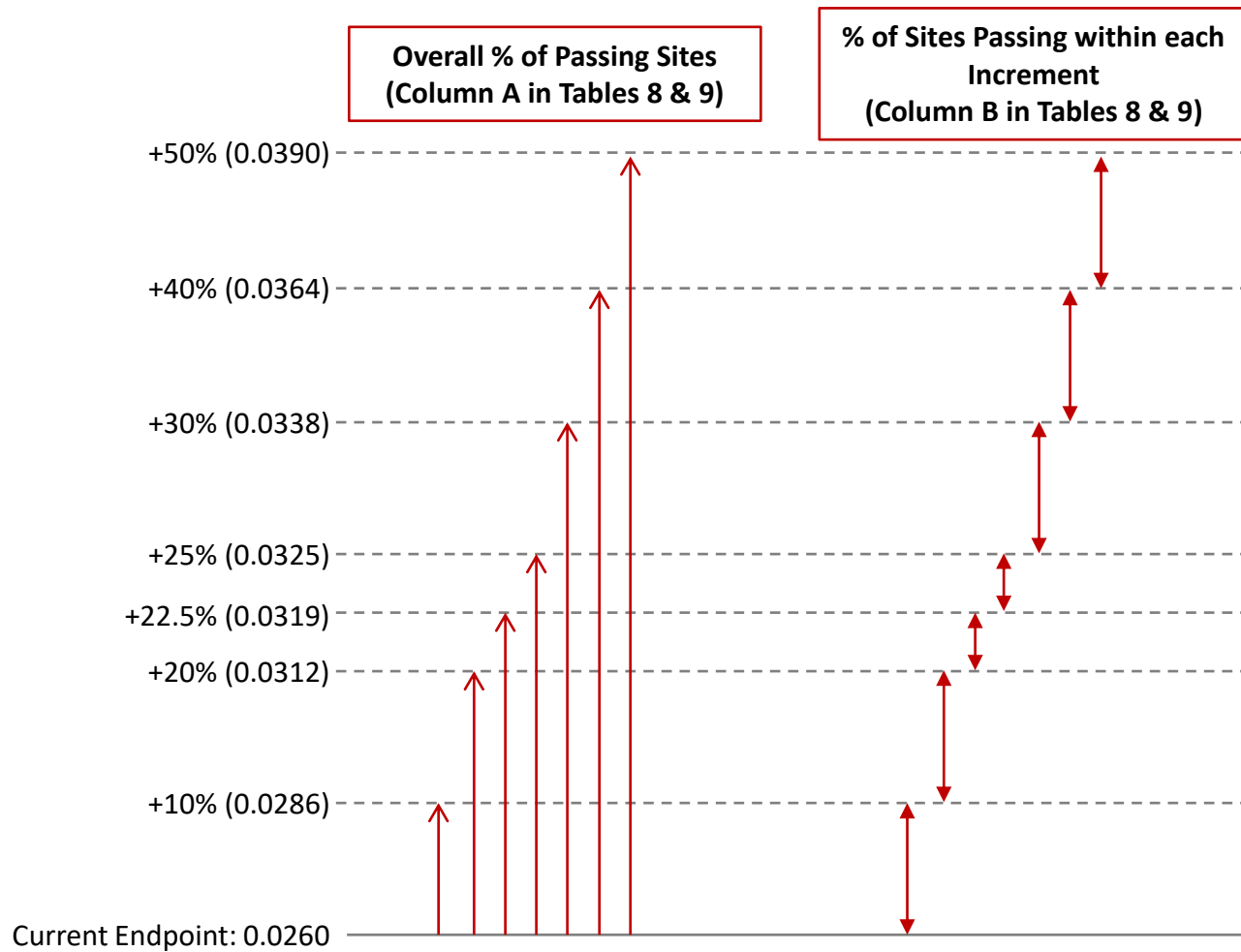
Figure 1: GIS Map of Candidate Site Locations

Scale: 1:5,977,078

JUNE 2020

Projection: NAD 1983 CSRS 10TM AEP Forest.
Source: Alberta Parks 2017, Cenovus Energy Inc, Canadian Natural Resources Ltd., Husky Energy Inc., Orphan Well Association.

Figure 2: Diagram of Increased Endpoint Evaluation Methodology for Salt Calculation





APPENDIX A

Technical Memorandum:

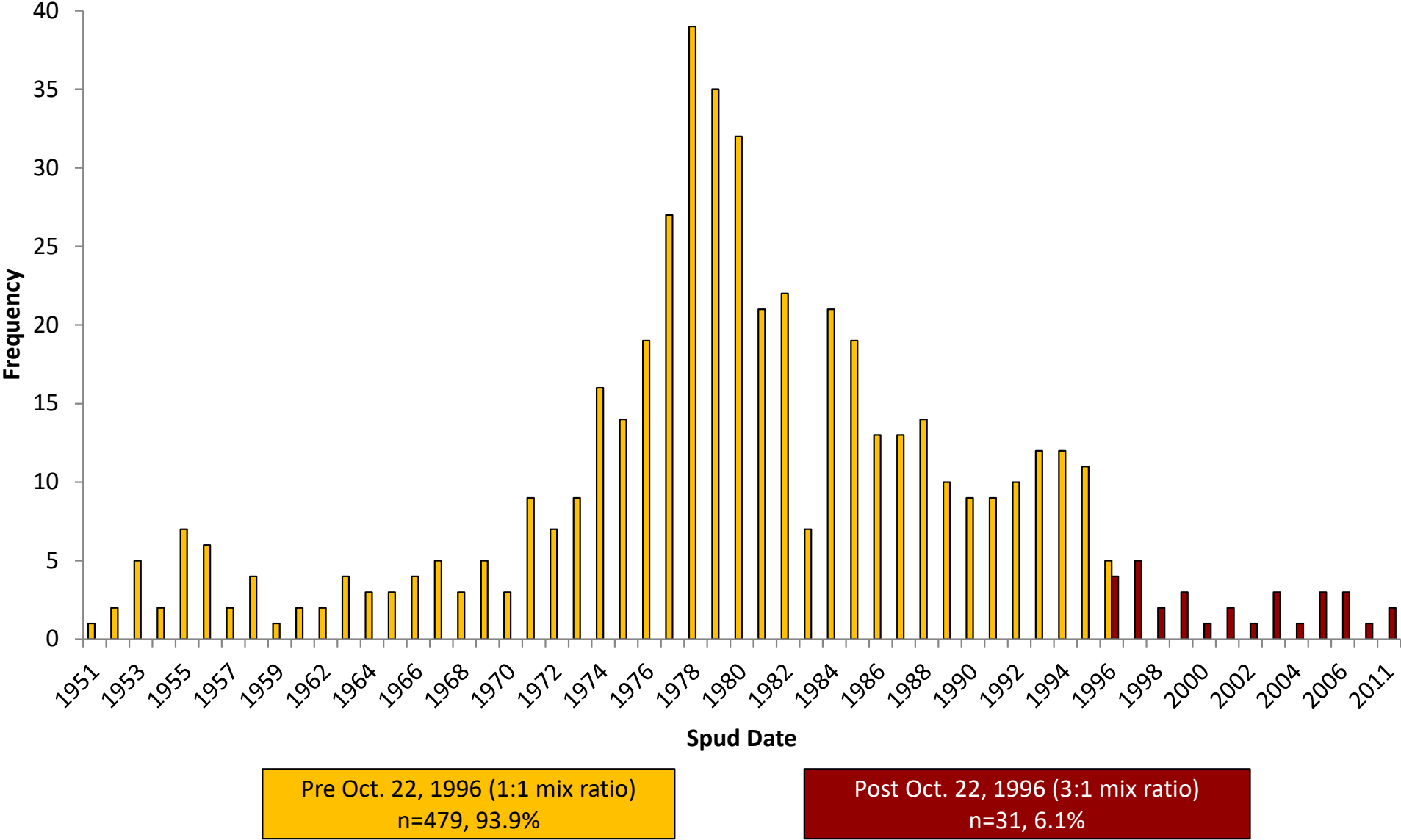
Default Chloride Inputs for Compliance Option Calculations



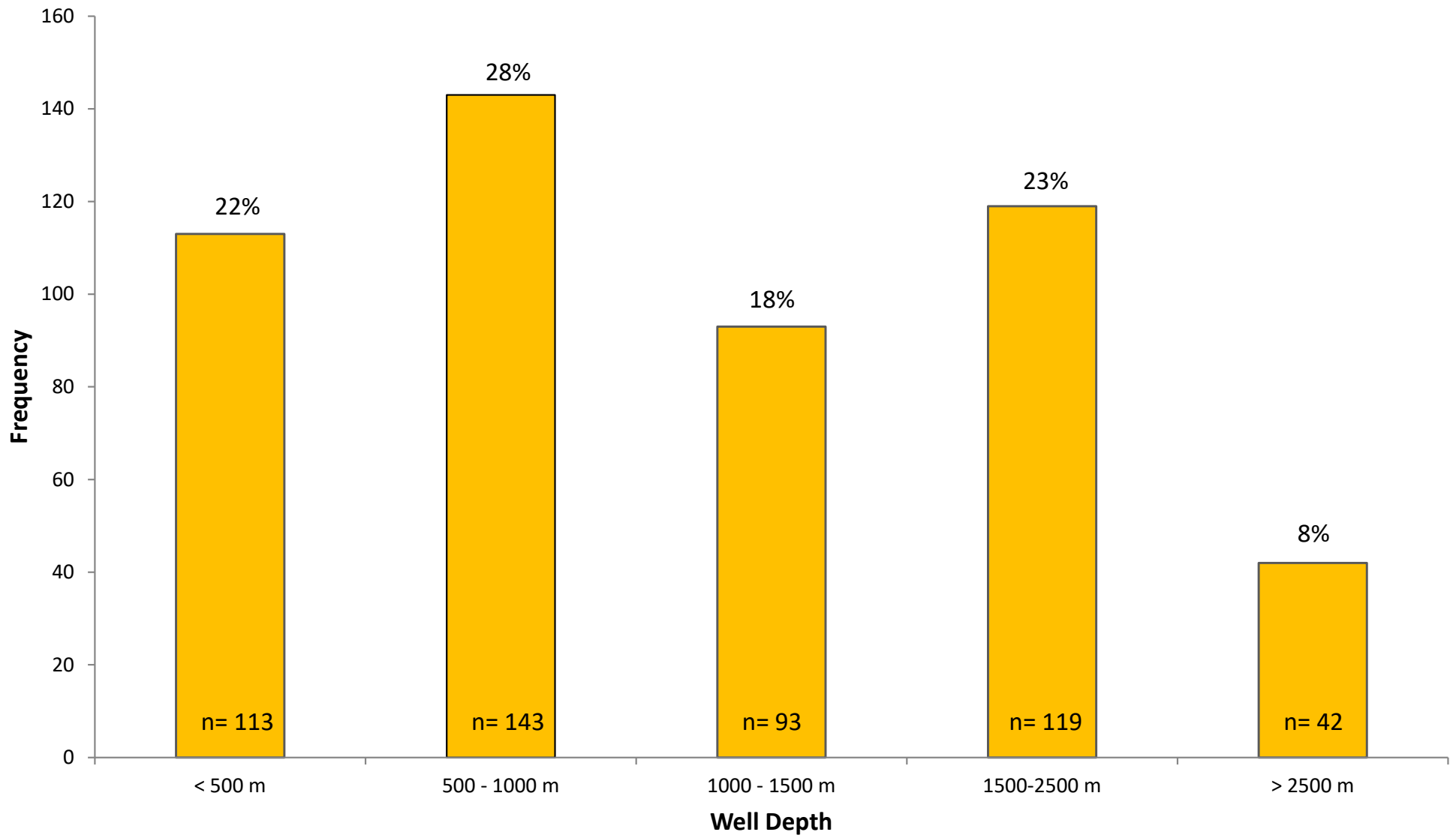
APPENDIX B

Graphs

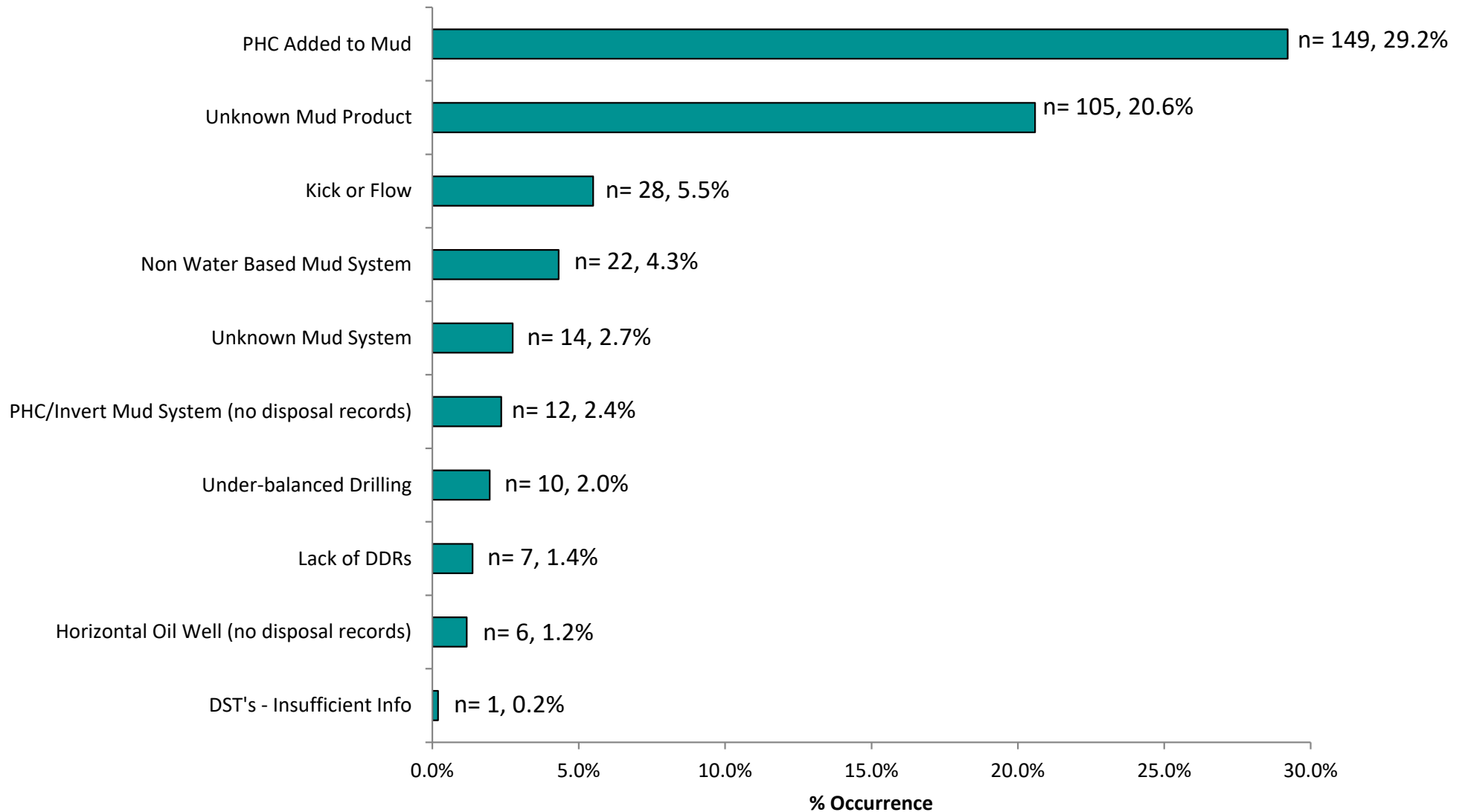
Graph 1: All Sites – Spud Date Histogram



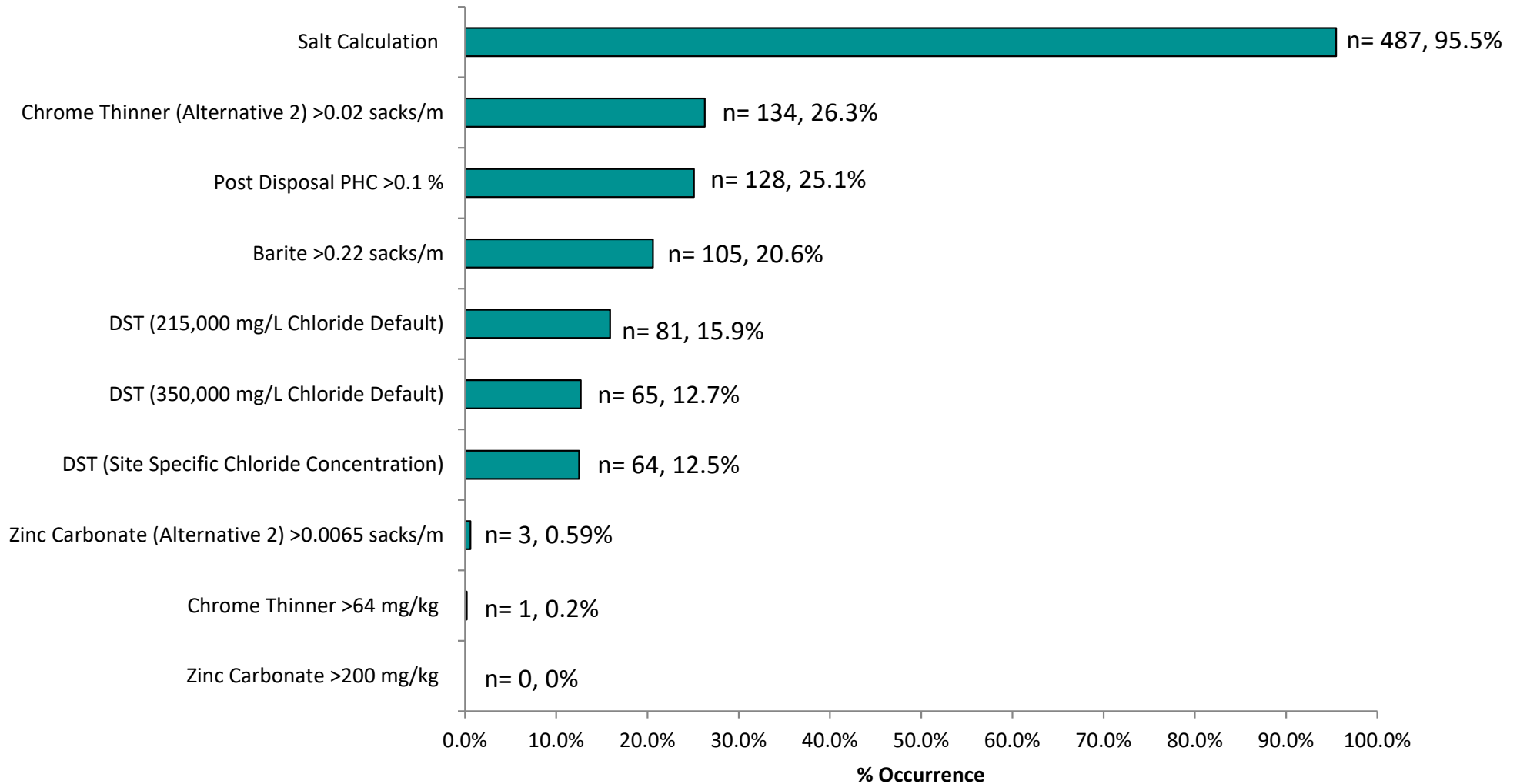
Graph 2: All Sites - Well Depth Histogram



Graph 3: All Condition Triggers - % Occurrence

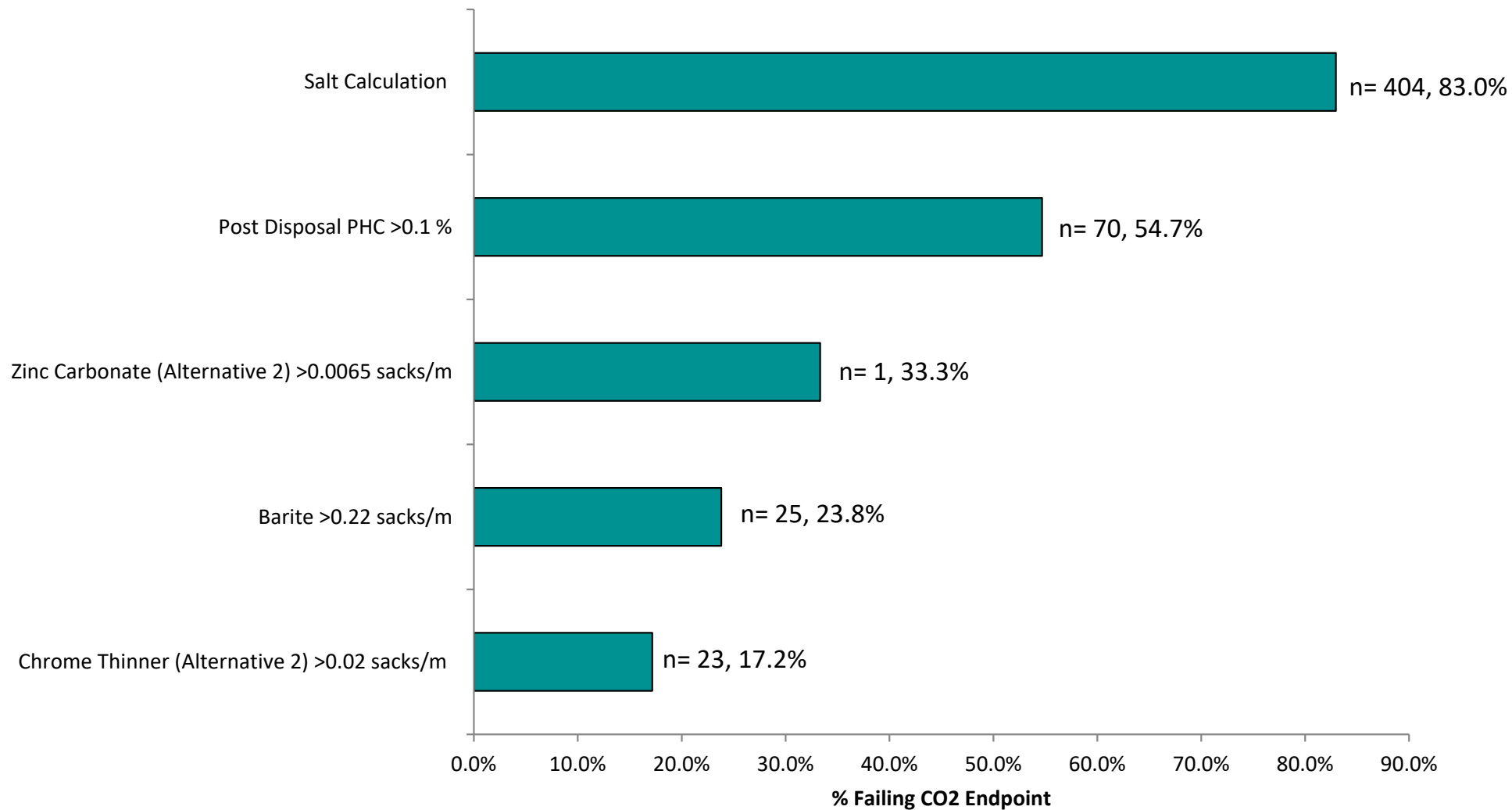


Graph 4: All Calculation Triggers - % Occurrence



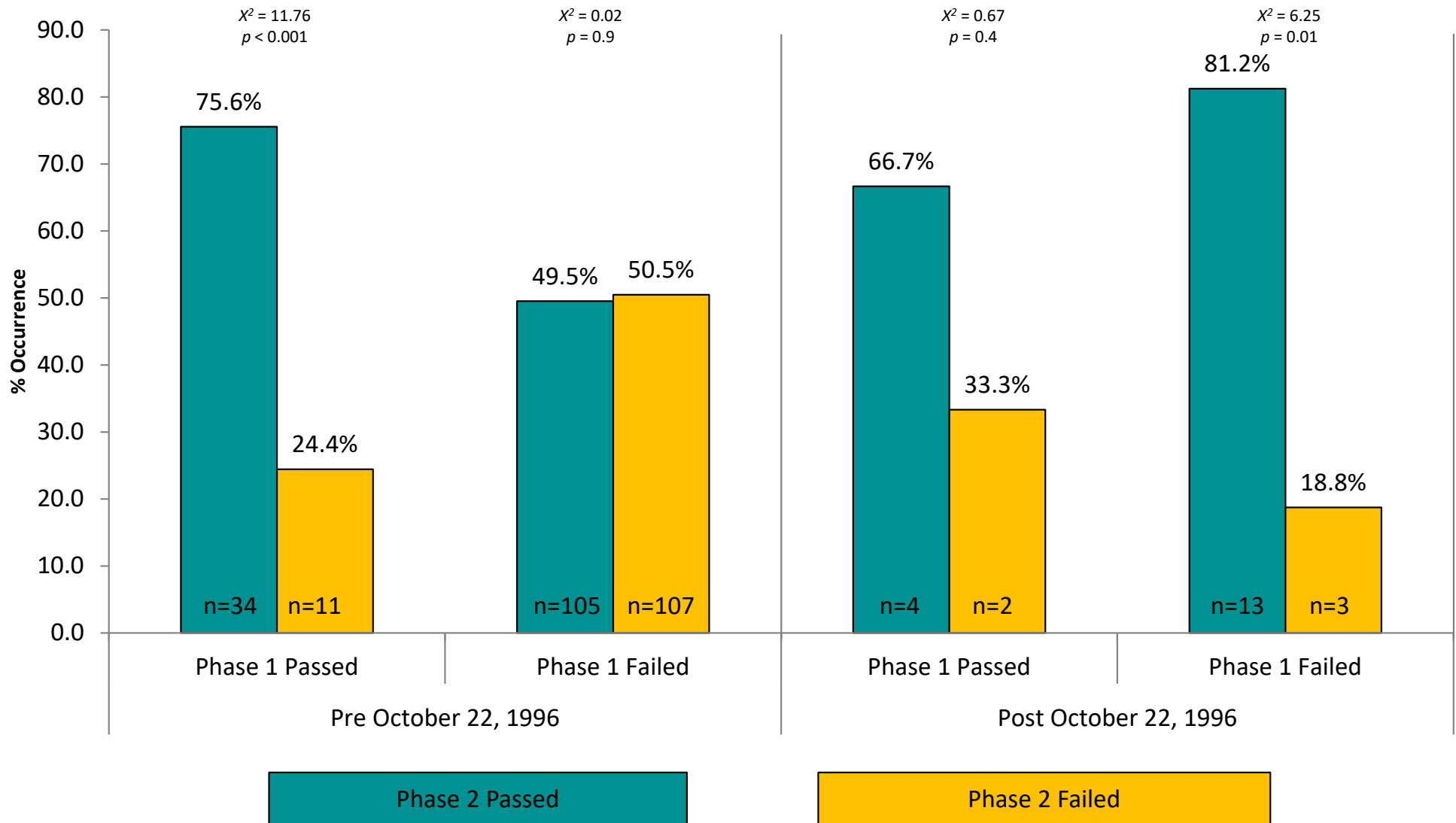
Note: % Occurrence includes all sites where the calculations were completed (both passing and failing CO2 endpoints)

Graph 5: All Calculation Triggers - % Failing CO2 Endpoint

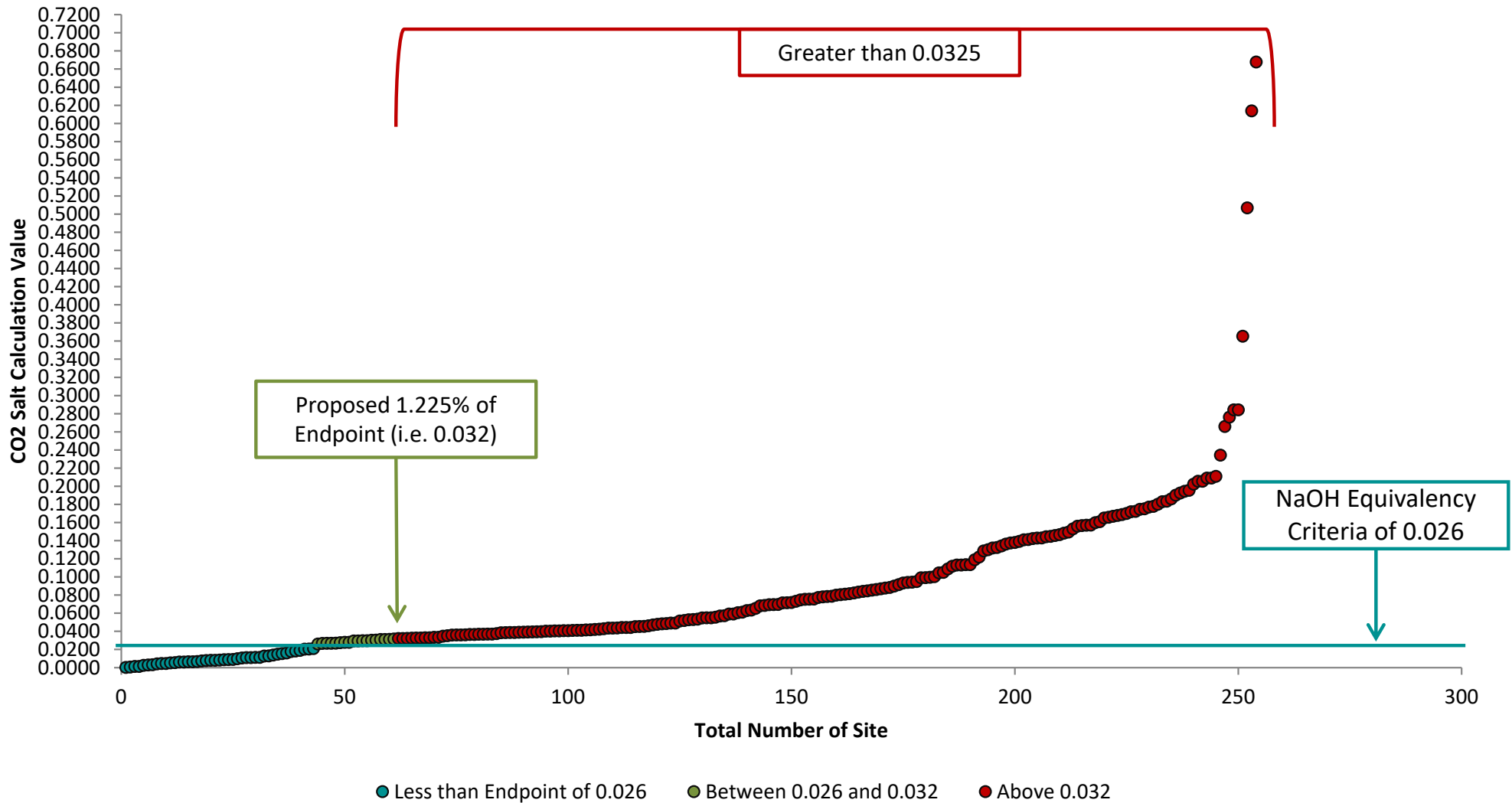


Note: %of sites Failing the CO2 Endpoint was calculated per total occurrences of each trigger.

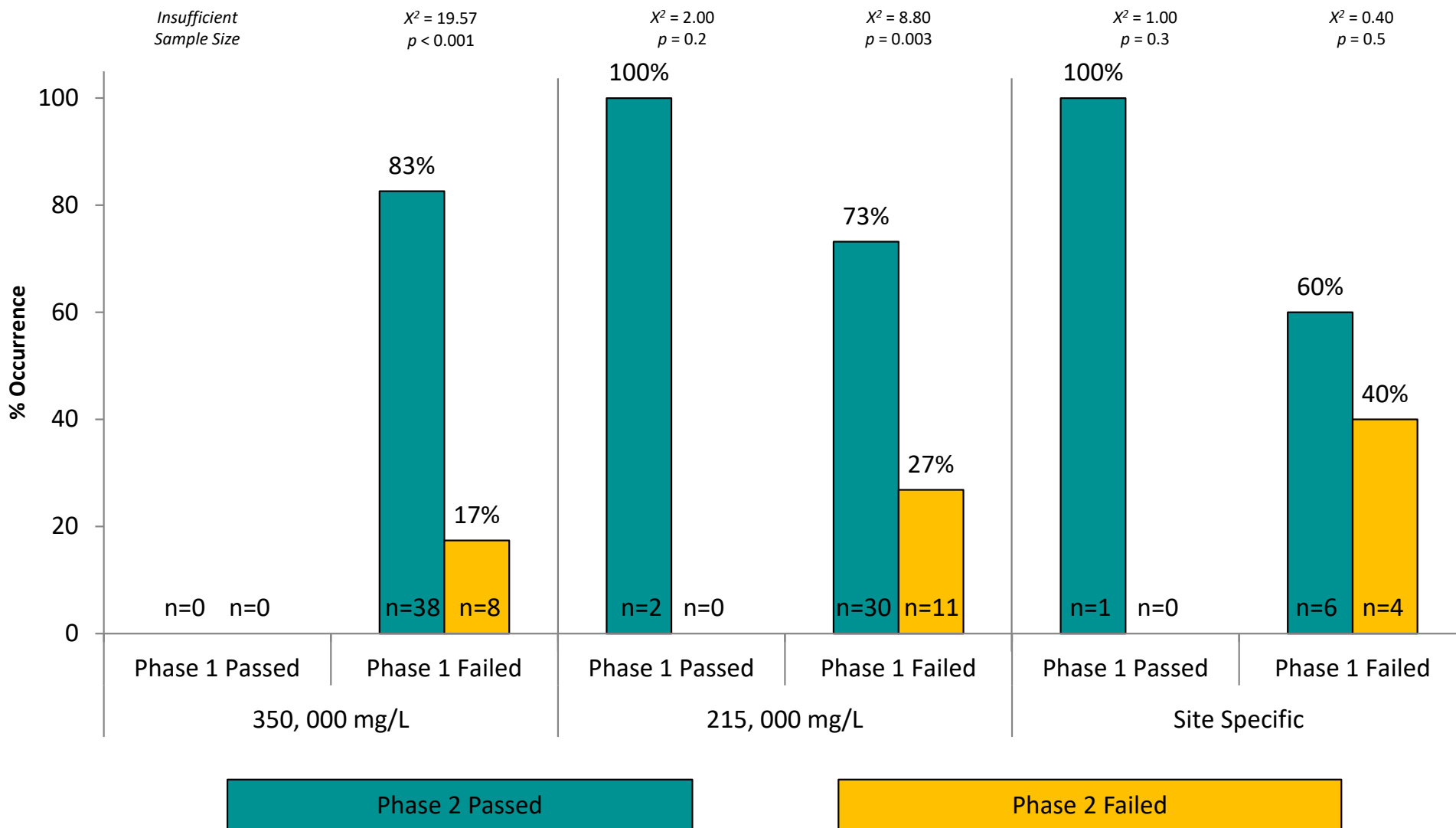
**Graph 6: Salinity – CO2 Salt Calculation Values (Mud Additives Only)
compared to Phase 2 EC Outcomes**



**Graph 7: Salinity - CO2 Salt Calculation Values (Mud Additives Only)
Divided by Different Endpoints**



Graph 8: Salinity – DST Contribution (>50%) to CO2 Salt Calculation Compared to Phase 2 EC Outcomes (Pre-Oct 22, 1996)



Graph 9: Salinity - DST Contribution (81 - 100%+) to CO2 Salt Calculation Compared to Phase 2 EC Outcomes (Pre-Oct 22, 1996)

