HYPOTHETICAL EXAMPLE-1996

GW Flow?

Johnny’s Quick Mart

Dispensers

Tank Basin

Bulk Mart
HYPOTHETICAL EXAMPLE-1999

Johnny's Quick Mart

Dispensers

Tank Basin

Bulk Mart

MW-1

MW-2

MW-3

MW-4

MW-5

MW-6

GW Flow
HYPOTHETICAL EXAMPLE-2004

Johnny’s Quick Mart

Tank Basin

Dispensers

MW-1

MW-2

MW-3

GW Flow

MW-4

MW-5

MW-6

MW-7

MW-8

MW-9

Bulk Mart
HYPOTHETICAL EXAMPLE-2011

Johnny’s Quick Mart

Excavation Boundary

GW Flow

Bulk Mart

MW-7

MW-8

MW-9
HYPOTHETICAL EXAMPLE-2015

Utility Corridor

Luv’n Care Day Care

Soil Removal Area

GW Flow

MW-7

MW-8

MW-9

Bulk Mart
NEW AND UPDATED DEQ GUIDANCE/FORMS

• RELEASE CLOSURE PLAN
• REMEDIAL INVESTIGATION GUIDANCE DOCUMENT-OCTOBER 2017
• GROUNDWATER SAMPLING GUIDANCE (BUREAU)-MARCH 2018
• REMEDIAL ALTERNATIVES ANALYSIS GUIDANCE DOCUMENT-APRIL 2018
• RISK BASED CORRECTIVE ACTION GUIDANCE DOCUMENT-MAY 2018
• PRIORITIZATION OF PETROLEUM RELEASES TECHNICAL GUIDANCE DOCUMENT-2020
• MONTANA VAPOR INTRUSION GUIDE-2011 (BEING UPDATED)
• COMING SOON! MONTANA CLEANUP GUIDANCE FOR PETROLEUM RELEASES
RELEASE CLOSURE PLAN

• BEGIN WITH THE END IN MIND

• KEEP THE END IN MIND THROUGHOUT THE ENTIRE PROCESS OF INVESTIGATION, CLEANUP, AND COMPLIANCE MONITORING

• PART 1 - SITE SUMMARY AND RI RESULTS

• PART 2 - CONCEPTUAL SITE MODEL AND EVALUATION OF EXPOSURE PATHWAYS

• PART 3 - EVALUATION OF CLEANUP ALTERNATIVES

• PART 4 - COMPLIANCE MONITORING
• FULL SITE INVESTIGATION
• ONE REPORT WITH INTERIM LAB SUBMITTALS
• COMMUNICATION IS KEY
• ADDRESS ALL SECTIONS
GROUNDWATER SAMPLING GUIDANCE (BUREAU)- MARCH 2018

• WORKING ON SECTION-SPECIFIC CLARIFICATION
• The Remedial Alternatives Analysis (RAA) is a part of the Release Closure Plan, which is submitted with the Remedial Investigation Report and updated with each phase of work.

• This document gets into the details of what is required for the Remedial Alternatives Analysis, as well as the evaluation criteria.
GUIDANCE UPDATES

• RISK BASED CORRECTIVE ACTION GUIDANCE DOCUMENT-MAY 2018
• PRIORITIZATION OF PETROLEUM RELEASES TECHNICAL GUIDANCE DOCUMENT-2020
• MONTANA VAPOR INTRUSION GUIDE-2011 (BEING UPDATED)
COMING SOON!

- MONTANA CLEANUP GUIDANCE FOR PETROLEUM RELEASES
  - DRAFT-INTERNAL REVIEW
  - PTRCB REVIEW
  - PROCESS IMPROVEMENT SUBGROUP REVIEW
  - CONSULTANT REVIEW
  - IMPLEMENTATION
QUESTIONS?