



Petroleum Tank Cleanup Section (PTC)

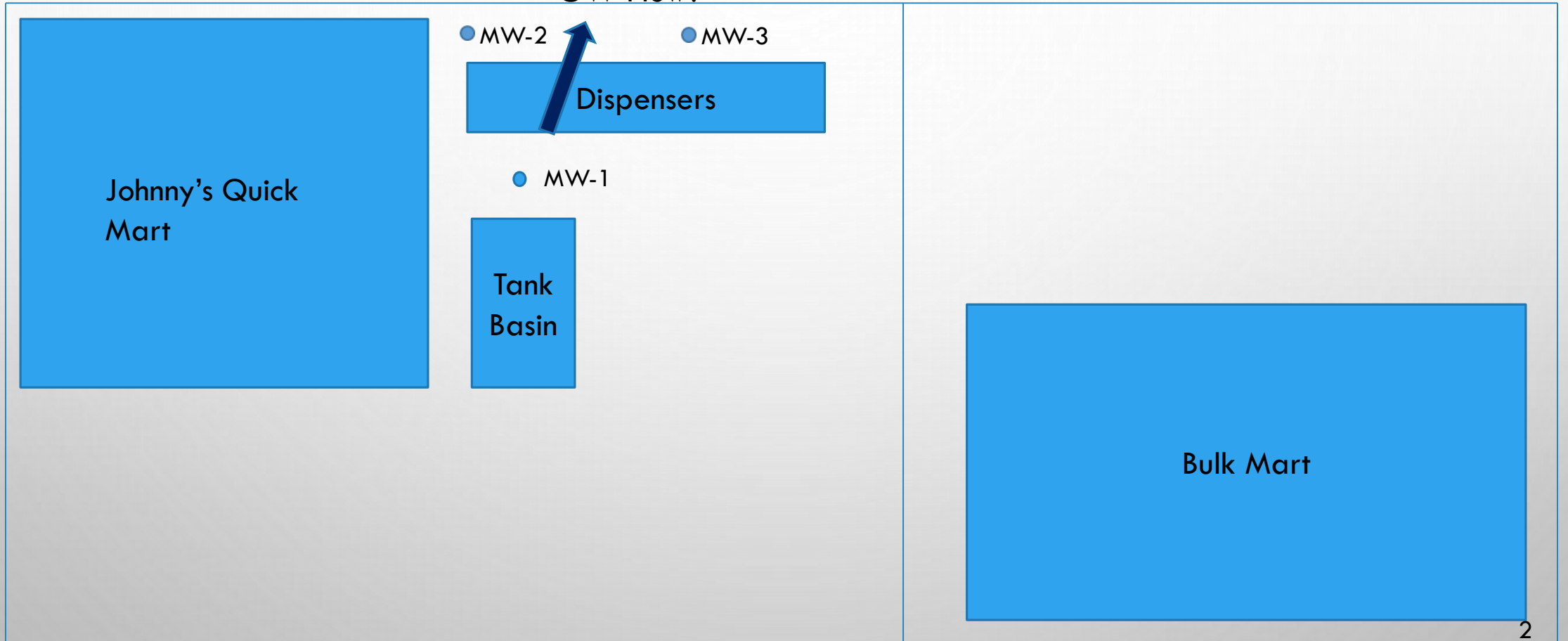
PTC GUIDANCE

CONSULTANTS MEETING, FEBRUARY 5, 2020

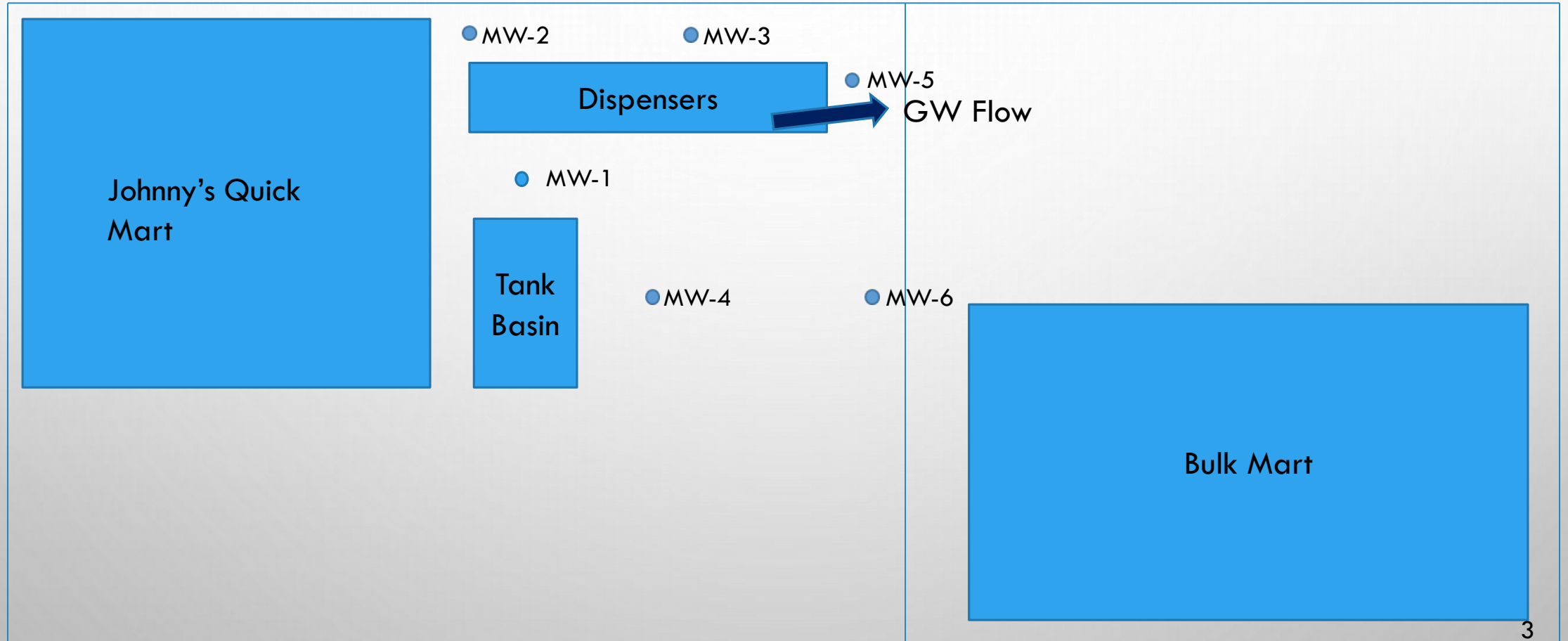
DELTA MARRIOTT HOTEL, HELENA

HYPOTHETICAL EXAMPLE-1 1996

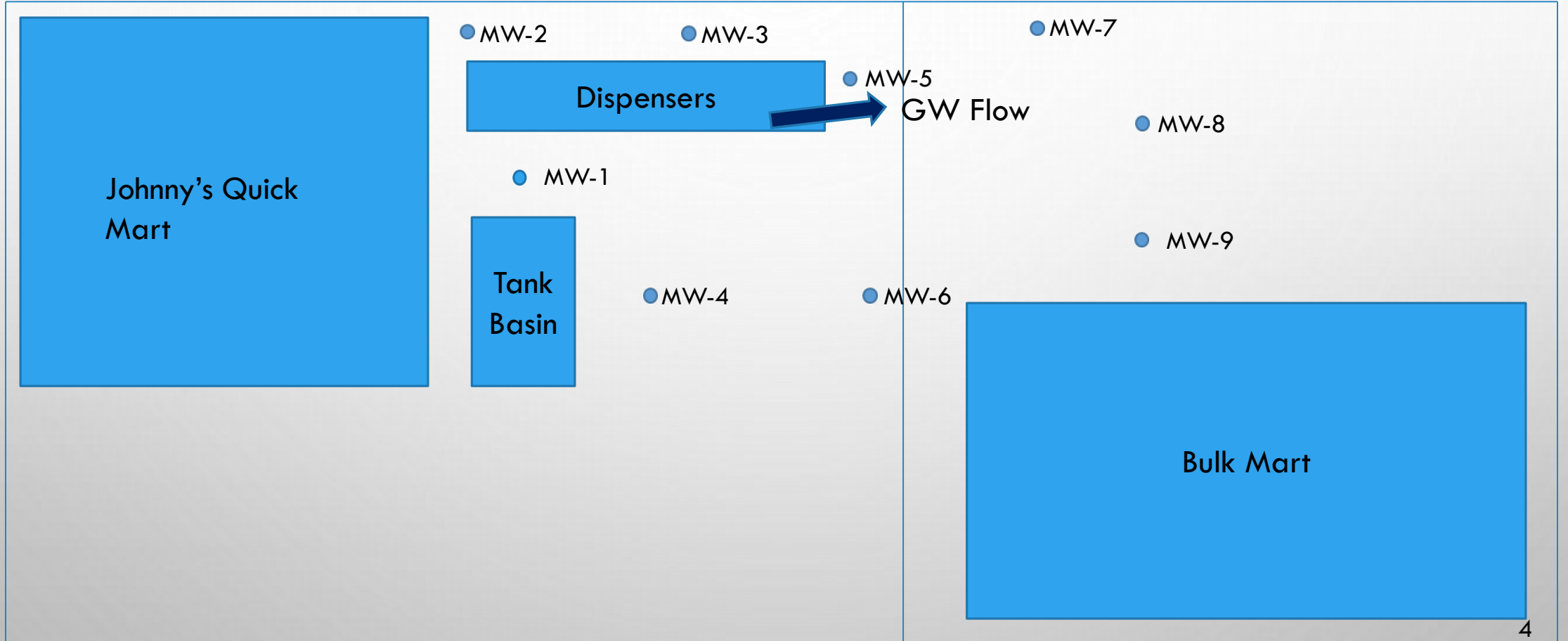
GW Flow?



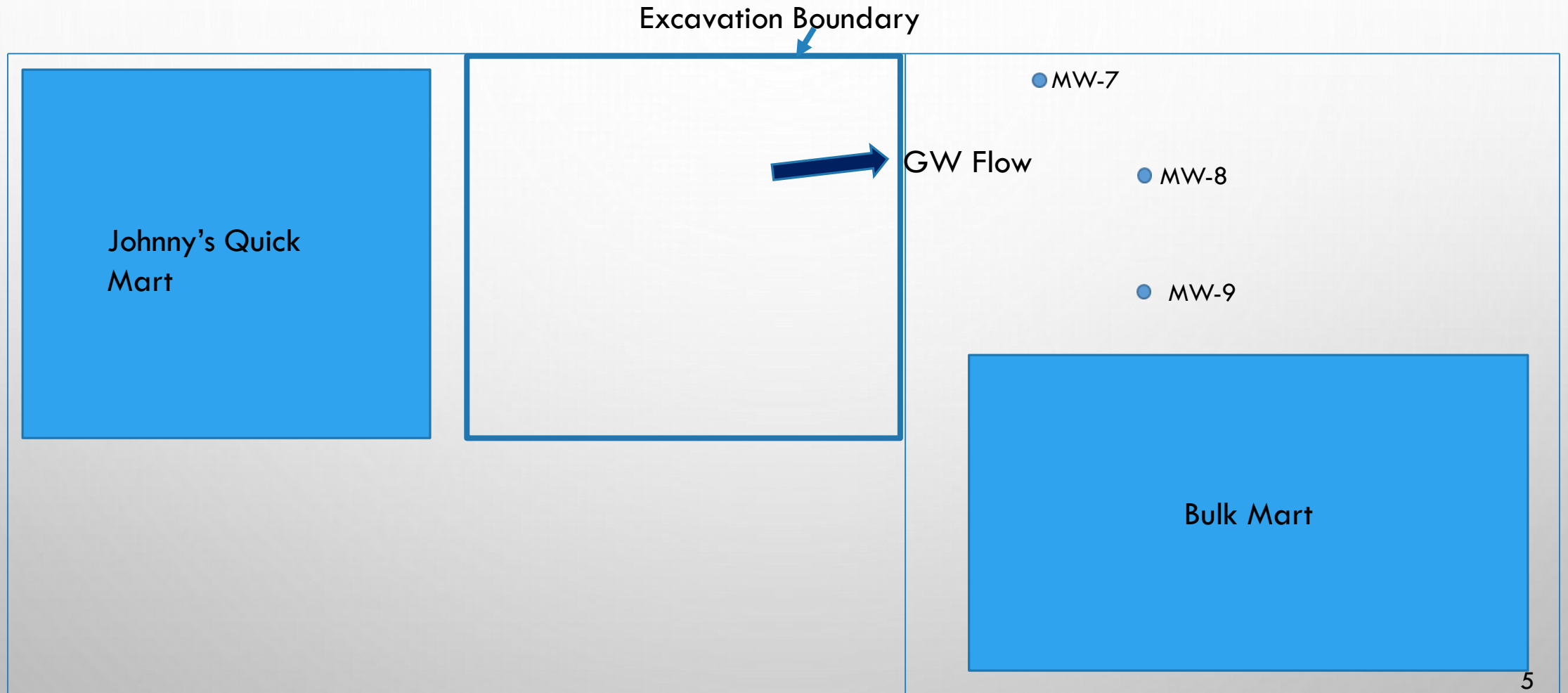
HYPOTHETICAL EXAMPLE-1 1999



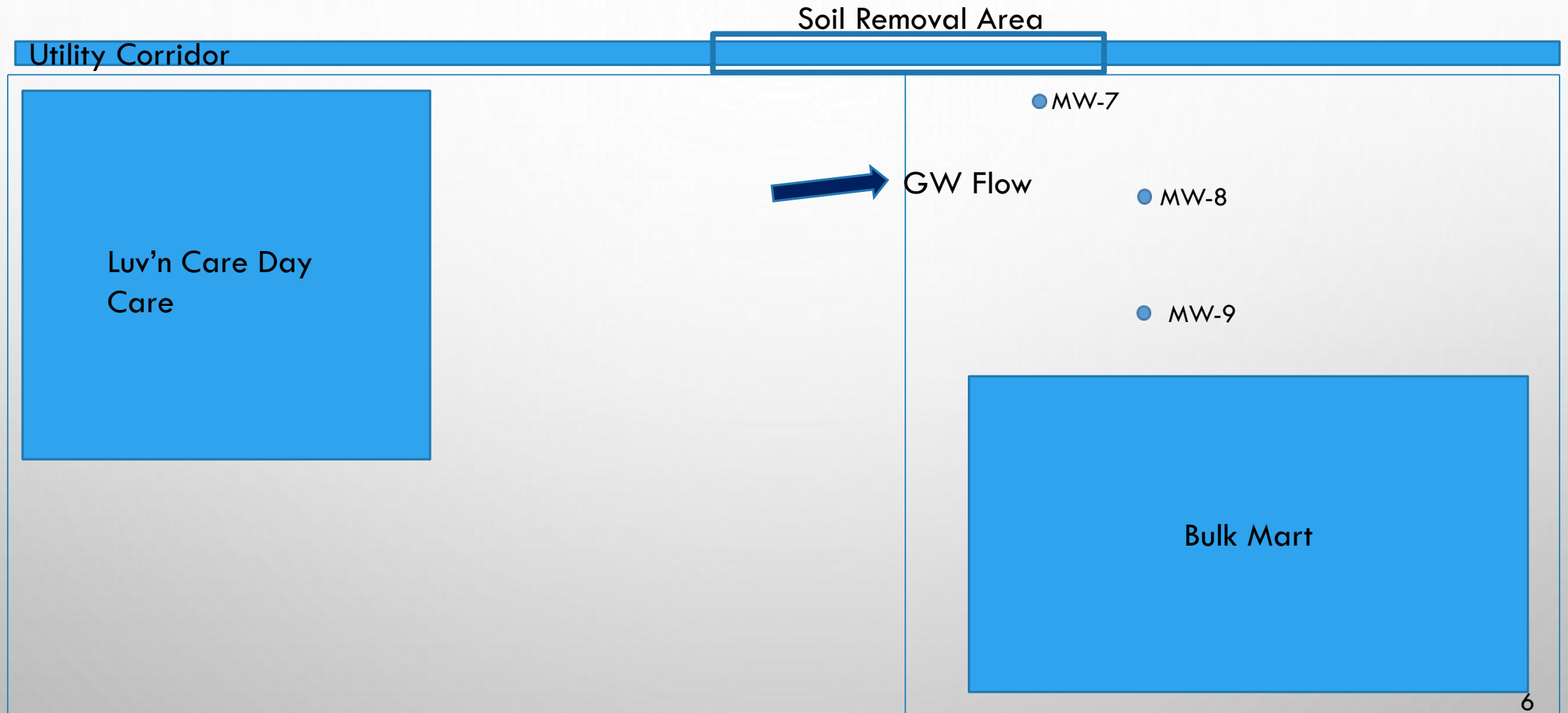
HYPOTHETICAL EXAMPLE-2004



HYPOTHETICAL EXAMPLE-2011



HYPOTHETICAL EXAMPLE-2015



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

REMEDIAL INVESTIGATION GUIDANCE DOCUMENT- OCTOBER 2017

- 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

REMEDIAL ALTERNATIVES ANALYSIS GUIDANCE DOCUMENT-APRIL 2018

- 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?