

**Bureau of Land Management Area B
Unit B-2A
Munitions and Explosives of Concern
Remedial Action
Technical Memorandum
Former Fort Ord, California**

June 2019

Prepared for:



**U.S. Army Corps of Engineers
Sacramento District
1325 J Street
Sacramento, California 95814-2922**

Prepared by:



**KEMRON Environmental Services, Inc.
1359A Ellsworth Industrial Blvd.
Atlanta, GA 30318
404-636-0928**

Table of Contents

List of Tables.....	ii
List of Figures.....	ii
List of Appendices.....	ii
List of Acronyms	iii
1.0 Introduction	1
1.1 Site Location and MEC Items Removed Prior to Remedial Action	2
1.2 Summary of MEC Items Removed Prior to Remedial Action.....	2
2.0 Work Completed	3
2.1 B-2A Primary Area.....	4
2.1.1 Vegetation Clearance	4
2.1.2 Technology-Aided Surface MEC Removal	4
2.1.3 Digital Geophysical Mapping Survey.....	5
2.1.4 Summary of MEC/MD Removed	6
2.1.5 Risk Reduction	6
2.2 Trails 61 & 62	9
2.2.1 Vegetation Clearance	9
2.2.2 Subsurface MEC Removal	9
2.2.3 Summary of MEC/MD Removed	10
2.3 Trail Buffer	10
2.3.1 Vegetation Clearance	10
2.3.2 Technology-Aided Surface MEC Removal	10
2.3.3 Digital Geophysical Mapping Survey.....	10
2.3.4 Summary of MEC/MD Removed	11
2.3.5 Risk Reduction	11
3.0 Field Work Variance(s)	13
4.0 Observations of Evidence of Potential Soil Contamination	13
5.0 Consideration for Future MEC Remedial Action	13
6.0 Recommendation & Conclusion.....	13
7.0 References	14

List of Tables

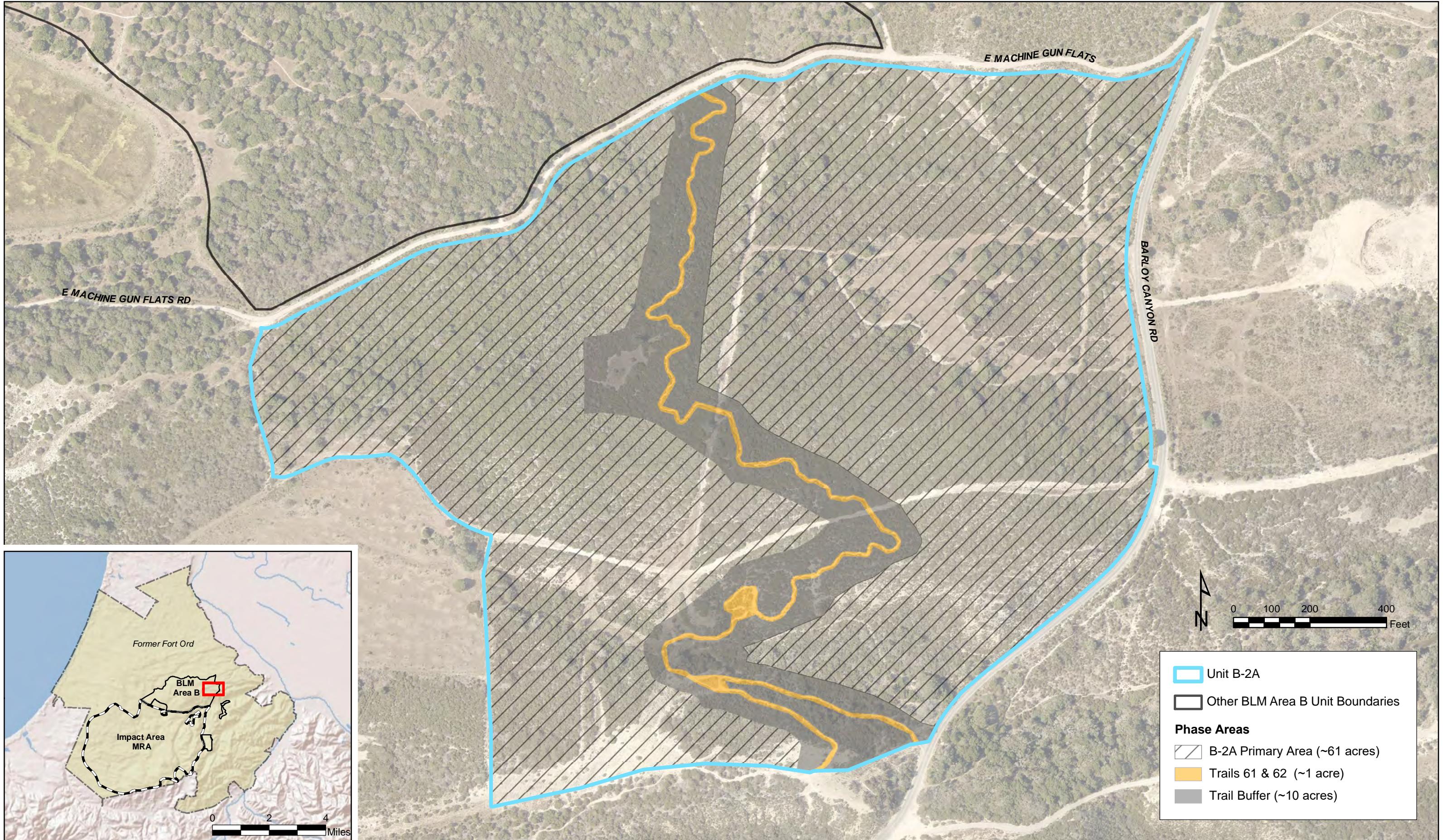
- Table 1 Unit B-2A MEC Items Recovered Prior to Remedial Action
- Table 2 Unit B-2A Cumulative Results
- Table 3 Unit B-2A Primary Area MEC Items Recovered During Surface MEC
- Table 4 Removal Risk Reduction - Classification Category Summary
- Table 5 Unit B-2A Primary Area - Summary of Risk Reduction Results
- Table 6 Trail Buffer Area MEC Items Recovered During Surface MEC Removal Trail
- Table 7 Buffer Area - Summary of Risk Reduction Results

List of Figures

- Figure 1 Location
- Figure 2 Unit B-2A Phase Areas
- Figure 3 MEC Items Removed Prior to Remedial Action
- Figure 4 Vegetation Clearance
- Figure 5 Surface MEC Removal & MEC Recovered
- Figure 6 Surface MEC Removal Munitions Debris Weight per Grid
- Figure 7 DGM Survey Results
- Figure 8 Risk Reduction Anomaly Investigation Results
- Figure 9 Risk Reduction MEC Results
- Figure 10 Trails 61 & 62 Subsurface MEC Removal & MEC Recovered
- Figure 11 Consideration for Future Remedial Action

List of Appendices

- Appendix A Army-BLM Joint Inspection Summary
- Appendix B Unit B-2A Quality Control Results
- Appendix C Unit B-2A Quality Assurance Results (Not including Digital Geophysical Operations)
- Appendix D Munitions Assessment Review Board Reports
- Appendix E Risk Reduction Results
- Appendix F Unit B-2A MEC Items Recovered
- Appendix G Field Work Variance 020



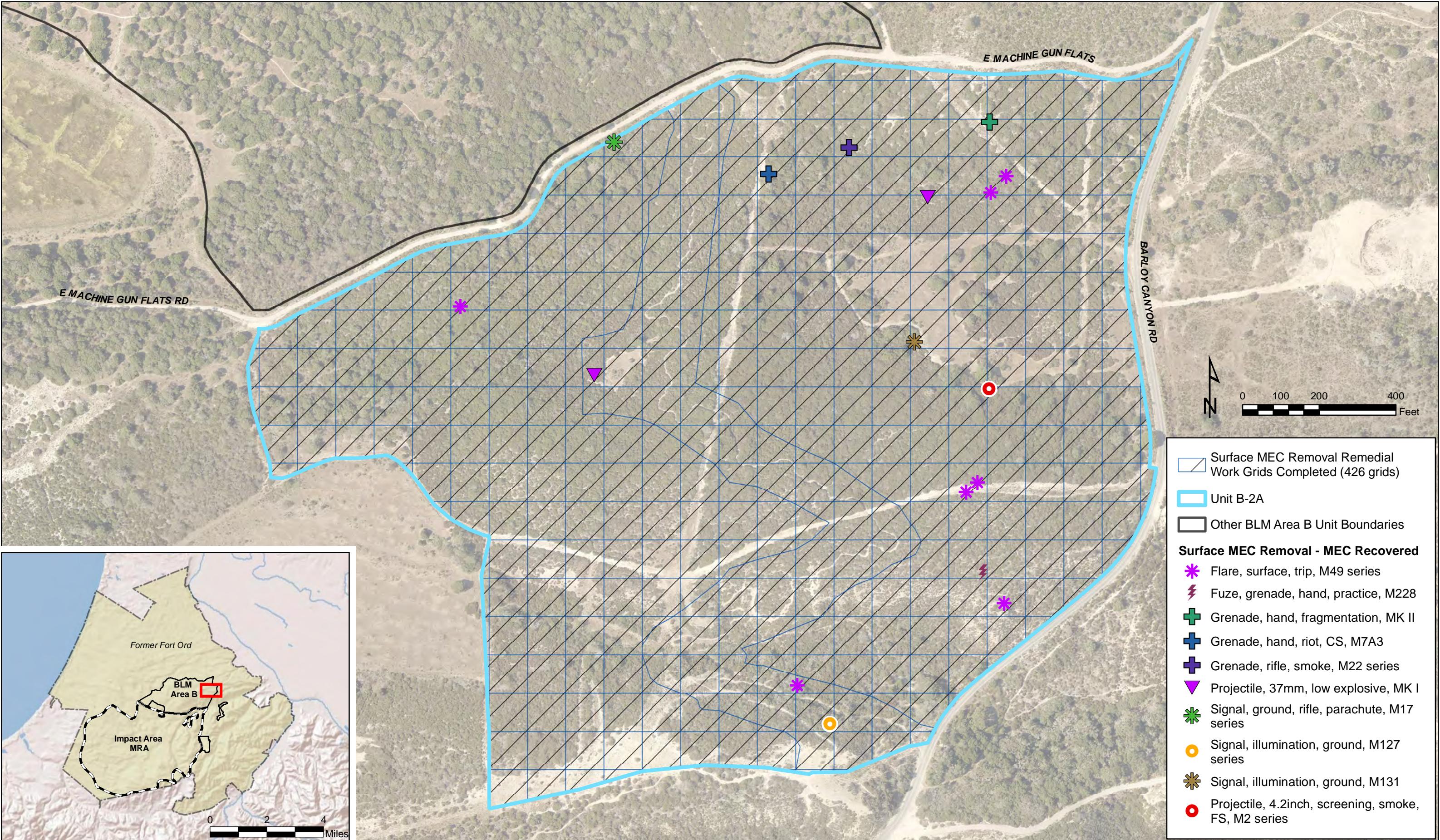
KEMRON
ENVIRONMENTAL SERVICES

Gilbane

DRAFT

BLM Area B - Unit B-2A
MEC Remedial Action Technical Memorandum
BLM Area B
Former Fort Ord, California

Figure 2
Unit B-2A Phase Areas



KEMRON
ENVIRONMENTAL SERVICES

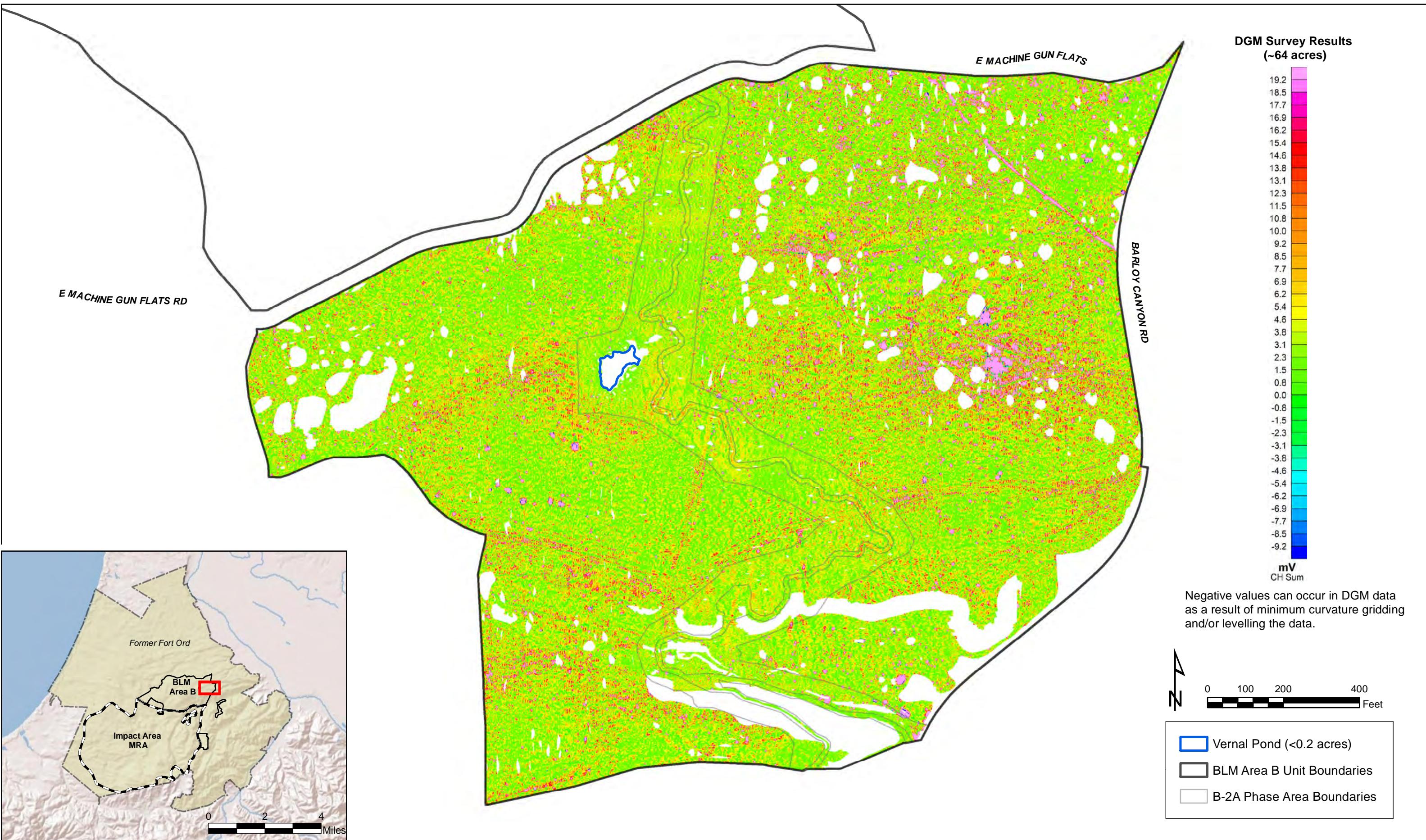
Gilbane

DRAFT

BLM Area B - Unit B-2A
MEC Remedial Action Technical Memorandum
BLM Area B
Former Fort Ord, California

Figure 5

Surface MEC Removal & MEC Recovered



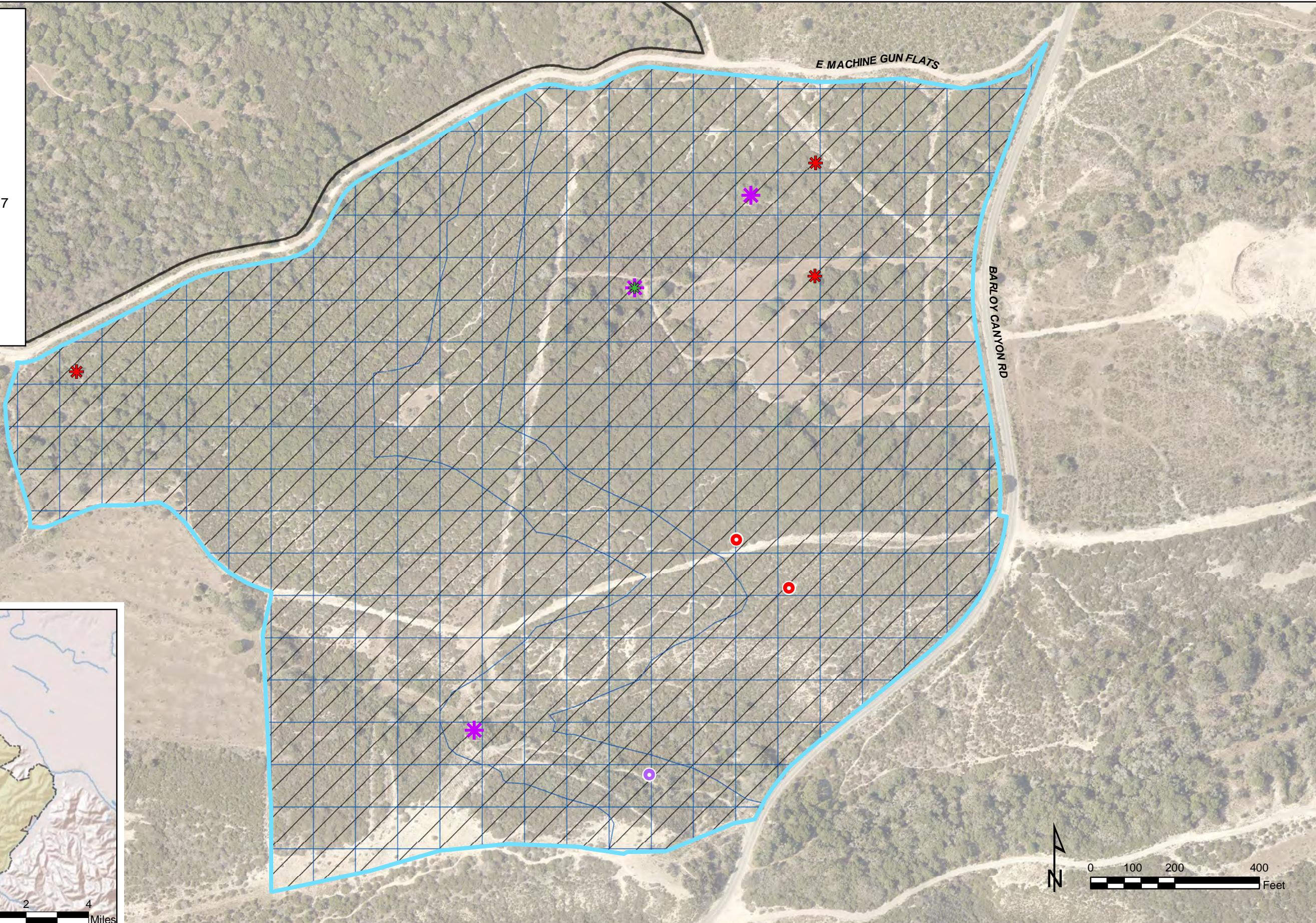
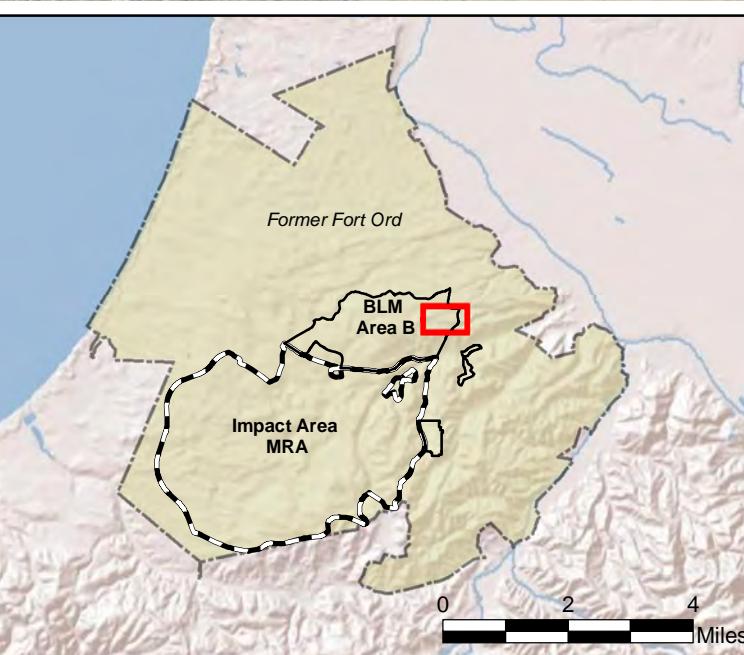
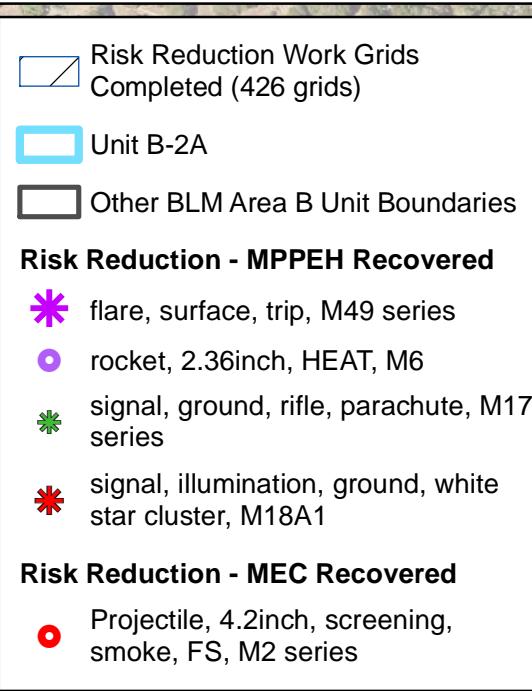
KEMRON
ENVIRONMENTAL SERVICES

Gilbane

DRAFT

BLM Area B - Unit B-2A
MEC Remedial Action Technical Memorandum
BLM Area B
Former Fort Ord, California

Figure 7
DGM Survey Results



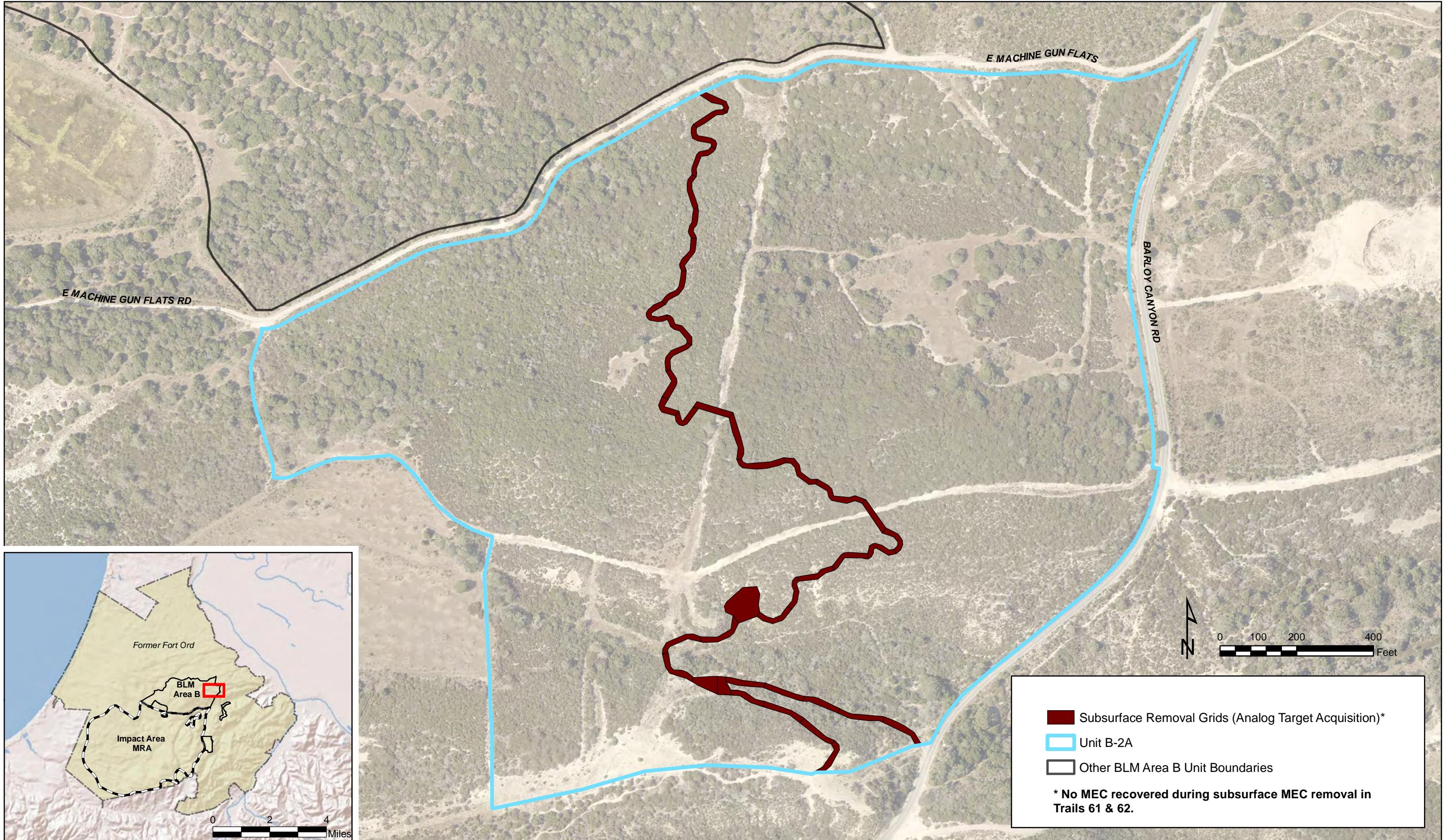
KEMRON
ENVIRONMENTAL SERVICES

Gilbane

DRAFT

BLM Area B - Unit B-2A
MEC Remedial Action Technical Memorandum
BLM Area B
Former Fort Ord, California

Figure 9
Risk Reduction MEC Results



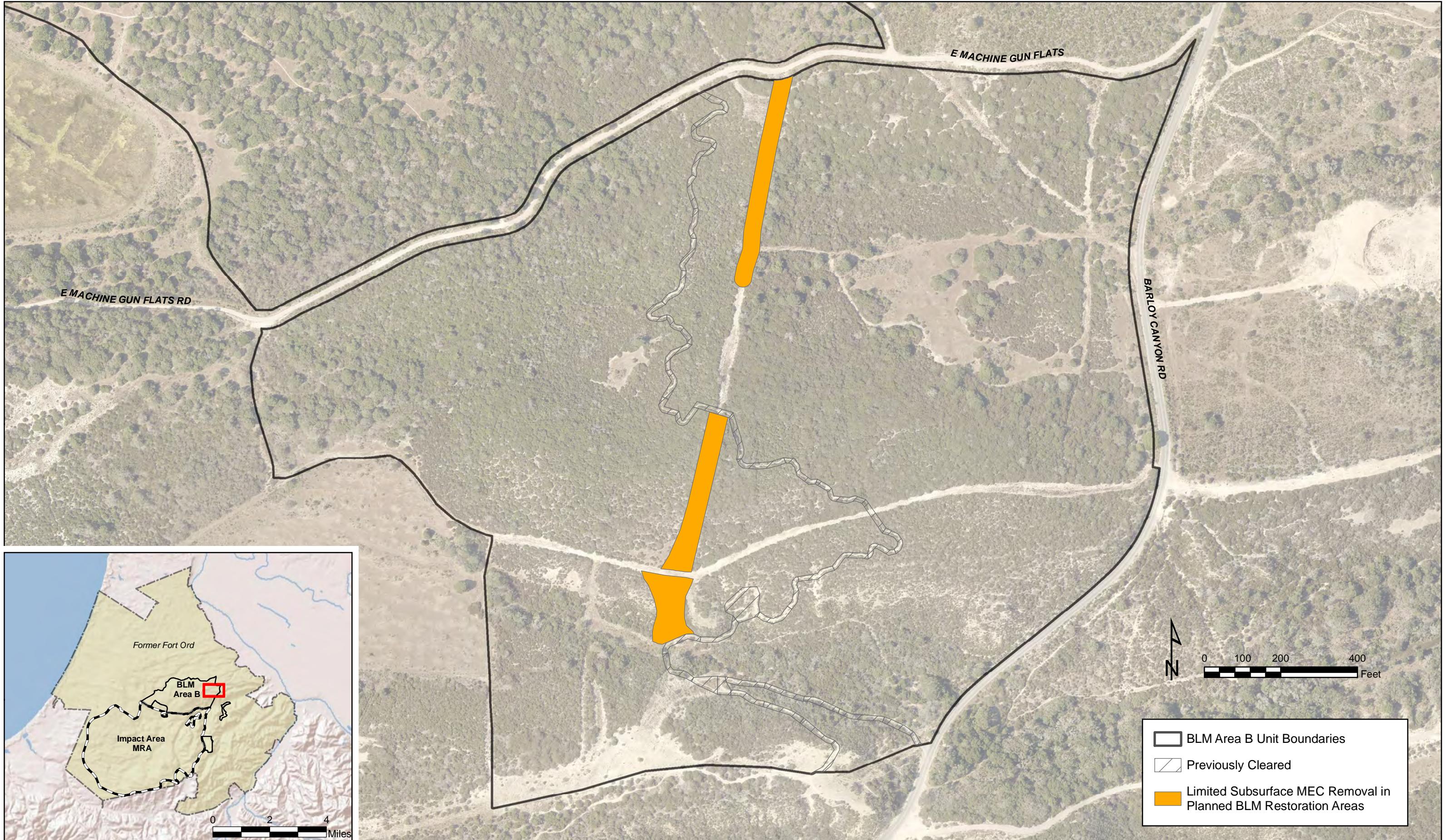
KEMRON
ENVIRONMENTAL SERVICES

Gilbane

DRAFT

BLM Area B - Unit B-2A
MEC Remedial Action Technical Memorandum
BLM Area B
Former Fort Ord, California

Figure 10
Trails 61 & 62
Subsurface MEC Removal & MEC Recovered



KEMRON
ENVIRONMENTAL SERVICES

Gilbane

DRAFT

BLM Area B - Unit B-2A
MEC Remedial Action Technical Memorandum
BLM Area B
Former Fort Ord, California

Figure 11
Consideration for Future Remedial Action