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Date: March 8, 2006
 Refer to: ER2006-0198

Mr. James Bearzi
 NMED – Hazardous Waste Bureau
 2905 Rodeo Park Drive East, Building 1
 Santa Fe, NM 87505-6303

**SUBJECT: REQUEST FOR APPROVAL OF THE CAÑON DE VALLE AGGREGATE
 HISTORICAL INVESTIGATION REPORT AND INVESTIGATION WORK
 PLAN OUTLINES**



Dear Mr. Bearzi:

Attached please find the proposed outlines for the Cañon de Valle Aggregate Historical Investigation Report and Investigation Work Plan. These two documents are deliverables required by the Compliance Order on Consent due September 30, 2006. The outlines for these documents have been modified to facilitate the presentation of the large volume of data and information contained within this complex aggregate. Los Alamos National Laboratory and the Department of Energy request that you review the attached outlines and provide comments and/or approval so we may produce these documents to your satisfaction within the schedule presented in the Compliance Order on Consent.

If you have any questions, please contact John McCann at 505-665-1091 (jmccann@lanl.gov) or Tony Trujillo at 505-845-5987 (ltrujillo@doeal.gov).

Sincerely,

David McInroy, Deputy Program Director
 Environmental Remediation & Surveillance
 Los Alamos National Laboratory

Sincerely,

David Gregory, Federal Project Director
 Department of Energy
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DM/DG/JM/jr



Enclosures: Historical Investigation Report And Investigation Work Plan Outlines

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HISTORICAL INVESTIGATION REPORT FOR CAÑÓN DE VALLE WATERSHED AGGREGATE AREA February 2006

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2.1.2 Conceptual Site Model

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2.1.3.1 Data Quality

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2.1.3.3 Summary and Additional Data Requirements

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2.3 Surface Disposal Site: SWMU 16-016(d)

2.4 Oil Switch: AOC C-16-051

3.0 Subaggregate 2: MDA R, SWMU 16-019

4.0 Subaggregate 3: Burning Ground

4.1 Filter Basket Wash and Filter Beds: Consolidated Unit 16-010(h)-99

4.2 Southern Drainage: SWMU 16-028(a)

- 4.3 Miscellaneous Structures: AOCs C-16-001, Above-Grade Platform; C-16-061, Latrine; C-16-070, Underground Propane Tank**
- 5.0 Subaggregate 4: Administrative Area**
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 - 5.2 Storage Buildings and Shops: Consolidated Unit 16-017(i)-99, SWMUs 16-034(h), 16-034(i), 16-034(j), 16-034(k), AOCs C-16-008, C-16-009, C-16-010, C-16-011, C-16-012, C-16-013, C-16-014, C-16-015, C-16-016, C-16-017, C-16-025, C-16-026, C-16-041**
 - 5.3 HE Storage Magazines: SWMU 16-024(v)**
 - 5.4 Firehouse Outfall: SWMU 16-026(r)**
 - 5.5 Fuel Storage Tanks: SWMU 16-033(e), AOCs 16-033(f), 16-037, C-16-072**
 - 5.6 Septic Tanks and Systems: SWMU 16-006(a), AOC C-16-036**
 - 5.7 Burn Area: SWMU 16-009(a)**
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- 6.0 Subaggregate 5: T-Site**
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 - 6.2 HE Magazines: SWMU 16-024(h), AOCs 16-024(f), 16-024(g)**
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 - 7.3 Radiography Buildings: SWMUs 16-025(a), 16-025(b)**
 - 7.4 HE Machining Buildings and Associated Structures: Consolidated Units 16-029(h2)-99, 16-029(q)-99**
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 - 8.1 16-260 Outfalls: Consolidated Unit 16-003(h)-99 and SWMU 16-026(g)**
 - 8.2 16-280 Outfalls: Consolidated Unit 16-029(j)-99, SWMUs 16-003(i), 16-003(j)**
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- 8.5 Miscellaneous Structures: AOCs 16-027(a) PCB Transformer**
- 9.0 Subaggregate 8: TA-14 Firing Sites**
 - 9.1 Active Firing Site: SWMU 14-001(g)**
 - 9.2 Former Firing Sites: Consolidated Units 14-002(a)-99, 14-002(c)-99**
 - 9.3 HE Sump and Drain Line: SWMU 14-006**
 - 9.4 Septic System: SWMU 14-007**
 - 9.5 Buildings (Removed): AOCs C-14-002, C-14-003, C-14-004, C-14-005, C-14-007**
 - 9.6 Former HE Magazines: AOCs C-14-001, 14-004(a), C-14-009**
 - 9.7 Electrical Pull Boxes: AOCs 14-001(a), 14-001(b), 14-001(c), 14-001(d), 14-001(e)**
- 10.0 Subaggregate 9: TA-15 West**
 - 10.1 Firing Site G: Consolidated Unit 15-004(g)-00, AOC C-15-001**
 - 10.2 Gulch Firing Site: SWMU 15-004(i)**
 - 10.3 MDA Z Landfill: SWMU 15-007(b)**
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 - 10.5 The Hollow: Consolidated Unit 15-009(a)-00, SWMU 15-014(g), AOCs C-15-007, C-15-010**
 - 10.6 Septic Systems: SWMUs 15-009(f)-00, 15-009(i)**
 - 10.7 Outfalls, Building 15-183: Consolidated Unit 15-014(a)-00**
- 11.0 Subaggregate 10: 16-340 Complex**
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- Appendix A Acronyms, Glossary, and Metric Conversion Table**
- Appendix B Analytical Suites and Results (CD on inside back cover of the report)**
- Appendix C Historical Survey Location Data (locations and coordinates) (CD on inside back cover of the report)**

INVESTIGATION WORK PLAN FOR CAÑÓN DE VALLE WATERSHED AGGREGATE AREA February 2006

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2.5.2.4 Summary and Additional Data/Corrective Action Requirements

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2.7 Surface Disposal Site: SWMU 16-016(d) (same as 2.5 above)

2.8 Oil Switch: AOC C-16-051, (same as 2.5 above)

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3.5.1 Site Description and Operational History

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3.5.2.1 Data Quality

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- 4.6 **Southern Drainage: SWMU 16-028(a)** (same as 4.5 above)
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 - 5.6 **Storage Buildings and Shops: Consolidated Unit 16-017(i)-99, SWMUs 16-034(h), 16-034(i), 16-034(j), 16-034(k), AOCs C-16-008, C-16-010, C-16-011, C-16-012, C-16-013, C-16-014, C-16-016, C-16-017, C-16-025, C-16-026** (same as 5.5 above)
 - 5.7 **HE Storage Magazines: SWMU 16-024(v)** (same as 5.5 above)
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 - 5.9 **Fuel Storage Tanks: SWMU 16-033(e), AOCs 16-033(f)** (same as 5.5 above)
 - 5.10 **Septic Tanks and Systems: SWMU 16-006(a)** (same as 5.5 above)
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 - 7.5.2.3 Site Conceptual Model
 - 7.5.2.4 Summary and Additional Data/Corrective Action Requirements
 - 7.6 HE Storage Magazines: Consolidated Unit 16-017(g)-99, AOCs 16-024(b), 16-024(c) (same as 7.5 above)**

- 7.7 **Radiography Buildings: SWMUs 16-025(a), 16-025(b)** (same as 7.5 above)
- 7.8 **HE Machining Buildings and Associated Structures: Consolidated Units 16-029(h2)-99, 16-029(q)-99** (same as 7.5 above)
- 7.9 **Scope of Investigation Activities**
- 8.0 **Subaggregate 7: TA-16-280/260 Complexes**
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 - 8.2 **Surface Water**
 - 8.3 **Soils**
 - 8.4 **Subsurface Conditions**
 - 8.4.1 Stratigraphy
 - 8.4.2 Cliff Retreat and Fractures
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 - 8.5 **16-260 Outfalls: Consolidated Unit 16-003(h)-99 and SWMU 16-026(g)**
 - 8.5.1 Site Description and Operational History
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 - 8.5.2.2 Nature and Extent of Contamination
 - 8.5.2.3 Site Conceptual Model
 - 8.5.2.4 Summary and Additional Data/Corrective Action Requirements
 - 8.6 **16-280 Outfalls: Consolidated Unit 16-029(j)-99, SWMUs 16-003(i), 16-003(j)** (same as 8.5 above)
 - 8.7 **Cooling Tower: SWMU 16-031(b), AOC C-16-002** (same as 8.5 above)
 - 8.8 **Underground Storage Tanks: AOCs 16-033(g), 16-033(h)** (same as 8.5 above)
 - 8.9 **Scope of Investigation Activities**
- 9.0 **Subaggregate 8: TA-14 Firing Sites**
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 - 9.3 **Soils**
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9.5 Active Firing Site: SWMU 14-001(g)

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9.7 HE Sump and Drain Line: SWMU 14-006 (same as 9.5 above)

9.8 Septic System: SWMU 14-007 (same as 9.5 above)

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10.0 Subaggregate 9: TA-15 West

10.1 Surface Conditions

10.2 Surface Water

10.3 Soils

10.4 Subsurface Conditions

10.4.1 Stratigraphy

10.4.2 Cliff Retreat and Fractures

10.4.3 Hydrogeology

10.5 Firing Site G: Consolidated Unit 15-004(g)-00, AOC C-15-001

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10.5.2 Historical Data Quality and Interpretation

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10.5.2.3 Site Conceptual Model

10.5.2.4 Summary and Additional Data/Corrective Action Requirements

- 10.6 Gulch Firing Site: SWMU 15-004(i)** (same as 10.5 above)
- 10.7 MDA Z Landfill: SWMU 15-007(b)** (same as 10.5 above)
- 10.8 Debris Disposal Area: SWMU 15-008(d)** (same as 10.5 above)
- 10.9 The Hollow: Consolidated Unit 15-009(a)-00, SWMU 15-014(g), AOCs C-15-007, C-15-010** (same as 10.5 above)
- 10.10 Septic Systems: SWMUs 15-009(f)-00, 15-009(i)** (same as 10.5 above)
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