

Appendix B

Documentation of Interviews and Site Inspections

Interview Logs

Site Inspection Photos for the CAOCs

with Land Use Controls, Caps, and/or Engineered Covers

INTERVIEW RECORD THIRD FIVE YEAR REVIEW OU 5 – CAOC 16 YERMO ANNEX (Marine Depot Maintenance Command) Marine Corps Logistics Base Barstow, CA		
Site Name: CAOC 16 (OU 5) Marine Depot Maintenance Command, Yermo Annex		EPA ID No. CA8170024261
Subject: Third Five-Year Review		Date: 29 March 2012
Type: <input type="checkbox"/> Telephone <input checked="" type="checkbox"/> Visit <input checked="" type="checkbox"/> Email (follow-up questions)		
Location of Visit: Yermo Annex, Marine Depot Maintenance Command (CAOC 16)		
Contact Made By:		
Name: Nova Clite	Title: Contractor PM	Organization: OTIE
Individual Contacted:		
Name: Jim Bustamante	Title: IR Program Manager	Organization: MCLB Barstow Environmental Division
Telephone: (760) 577-6523 Fax No: (760) 577-6256 E-mail address: Jim.bustamante@usmc.mil	Mailing address: Marine Corps Logistics Base ATTN: Jim Bustamante, IRP Manager Environmental Division, Building 196 Barstow, California 92311-5050	
Summary of Conversation:		
<p><i>Question: Has there been construction on the CAOC 16 hardstand over the past five years that has resulted in a reduction in or lessening of the protective cover?</i></p> <p><u>Response:</u> Several buildings were constructed on the hardstand over the past five years; the Environmental Division was involved in over-sight and coordination of environmental concerns. During construction, the hardstand cover was either left intact (for attached canopy type buildings) or partially removed within the building footprint area for the purpose of installing footings or other infrastructure. Soil samples were collected from the areas where the hardstand was removed and analyzed for VOCs; the results indicated no detectable VOCs. The building was then cleared for construction. The GIS department can provide updated area maps with the new building locations. The total area of the hardstand remains the same.</p>		
<p><i>Question: Have there been any replacement of the concrete floor or sub-floor drain work performed within Building 573 over the past five years? If so, was the concrete floor restored so that the protectiveness of the cover was maintained?</i></p> <p><u>Response:</u> Within Building 573, one area of the floor was opened to replace a subfloor drain. Soil samples were collected and analyzed for VOCs, but none were detected. The concrete floor was restored to 10- to 12-inch thick specifications.</p>		
<p><i>Question: How would you characterize the performance of the remedial action (preservation of the hardstand with landuse controls) at CAOC 16 to date (e.g., successful, failed, or other)?</i></p> <p><u>Response:</u> Hardstand has been maintained and is performing successfully.</p>		

INTERVIEW RECORD
THIRD FIVE YEAR REVIEW
OU 5 – CAOC 16 YERMO ANNEX (Marine Depot Maintenance Command)
Marine Corps Logistics Base Barstow, CA

Site Name: CAOC 16 (OU 5) Marine Depot Maintenance Command,
Yermo Annex

EPA ID No. CA8170024261

Subject: Third Five-Year Review

Date: 29 March 2012

Question: Are you aware of any community concerns regarding the environmental cleanup actions at the MCLB Barstow? If so, please provide details of the known community concerns and the Navy's efforts to resolve them.

Response: No concerns have been expressed to the MCLB Barstow Environmental Division.

**INTERVIEW RECORD
THIRD FIVE YEAR REVIEW
OU 1 – CAOC 37 YERMO ANNEX GROUNDWATER
Marine Corps Logistics Base Barstow, CA**

Site Name: CAOC 37 (OU 1) Yermo Annex Groundwater		EPA ID No. CA8170024261
Subject: Third Five-Year Review		Date: 29 March 2012
Type: <input type="checkbox"/> Telephone <input checked="" type="checkbox"/> Visit <input type="checkbox"/> Email (follow-up questions)		
Location of Visit: Yermo Annex		
Contact Made By:		
Name: Nova Clite	Title: Contractor PM	Organization: OTIE
Individual Contacted:		
Name: Jim Bustamante	Title: IR Program Manager	Organization: MCLB Barstow Environmental Division
Telephone: (760) 577-6523 Fax No: (760) 577-6256 E-mail address: Jim.bustamante@usmc.mil	Mailing address: Marine Corps Logistics Base ATTN: Jim Bustamante, IRP Manager Environmental Division, Building 196 Barstow, California 92311-5050	
Summary of Conversation:		
<p><i>Question: Over the past five years, have there been any activities at the Yermo Annex that could have lessened the protectiveness of the groundwater remedies in place (CAOC 16 AS/SVE system and GETS)?</i></p> <p><u>Response:</u></p> <p>There is minimal signage for the groundwater recharge zone for the GETS; concern is that DRMO will not see the existing signs and park vehicles there. Recommend that signage be improved for this area. No other Base-related activities affecting the groundwater remedial systems were noted.</p> <p>Some of the well vaults for the CAOC 16 AS/SVE system located in the lot north of CAOC 16 and east of CAOC 35 have soil erosion which needs to be repaired.</p>		
<p><i>Question: Are you aware of any community concerns regarding the environmental cleanup actions at MCLB Barstow? If so, please provide details of the known community concerns and the Navy's efforts to resolve them.</i></p> <p><u>Response:</u> No concerns have been expressed to MCLB Barstow Environmental Division.</p>		

INTERVIEW RECORD THIRD FIVE YEAR REVIEW Yermo Annex And Nebo Main Base Sites with BMP Amendments Marine Corps Logistics Base Barstow, CA		
Site Name: CAOCs 15/17, 18, 21, 23 (Strata 5,5a), 26, 34 and 35(stratum 2E) at Yermo Annex; and CAOCs 1, 2, 3, 5, 7 (Strata 3 and 3), 11, and 14 at Nebo Main Base		EPA ID No. CA8170024261
Subject: Third Five-Year Review		Date: 29 March 2012
Type: <input type="checkbox"/> Telephone <input checked="" type="checkbox"/> Visit <input type="checkbox"/> Email (follow-up questions)		
Location of Visit: Yermo Annex		
Contact Made By:		
Name: Nova Clite	Title: Contractor PM	Organization: OTIE
Individual Contacted:		
Name: Jim Bustamante	Title: IR Program Manager	Organization: MCLB Barstow Environmental Division
Telephone: (760) 577-6523 Fax No: (760) 577-6256 E-mail address: Jim.bustamante@usmc.mil	Mailing address: Marine Corps Logistics Base ATTN: Jim Bustamante, IRP Manager Environmental Division, Building 196 Barstow, California 92311-5050	
Summary of Conversation:		
<p><i>Question: Over the past five years, have there been any activities at the Yermo Annex that could have lessened the protectiveness of the remedies in place (BMP Amendments) at CAOCs 15/17, 18, 21, 23(Strata 5,5a), 26, 34, and 35 (Stratum 2E) at Yermo Annex and CAOCs 1, 2, 3, 5, 7 (Strata 3 and 3), 11, and 14 at Nebo Main Base?</i></p> <p><u>Response:</u></p> <p>At Yermo Annex, there was new construction completed on part of CAOC 15/17 and grading of the unpaved portions of CAOC 23 (Strata 5 and 5a); these activities were reviewed by and coordinated with Base Environmental Division. There were no activities at 18, 21, 26, 34 or 35(stratum 2E) during the review period.</p> <p>At Nebo, there were no activities at 1, 2, 3, 7 (Strata 3 and 3), 11, or 14 during the review period. At CAOC 5, the Environmental Division reviewed and approved DRMO Surplus Equipment Storage on Stratum 1 - Lot 351, beginning in Fall 2009. Expansion of storage to Lot 357 is currently being discussed.</p> <p>The Environmental Division is reviewing potential electrical cable runs that would cross CAOC 14 (probably below surface) at one or two locations on the west side of the Nebo Main Base. No effect on the NFA remedy is anticipated by the proposed cable crossing.</p>		
<p><i>Question: Are you aware of any community concerns regarding the environmental cleanup actions at MCLB Barstow? If so, please provide details of the known community concerns and the Navy's efforts to resolve them.</i></p> <p><u>Response:</u> No concerns have been expressed to MCLB Barstow Environmental Division.</p>		

Photograph Index

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Photo Set 1
Yermo Annex – CAOC 16 Hardstand



Photo 1a. CAOC 16 Hardstand – View looking northeast at hardstand adjacent to Building 622. Typical of condition of hardstand.

Photo Set 1
Yermo Annex – CAOC 16 Hardstand



Photo 1b. CAOC 16 Hardstand – View looking northeast, north of Building 573.



Photo 1c. CAOC 16 Hardstand – View looking southeast; east of Building 573.

Photo Set 1
Yermo Annex – CAOC 16 Hardstand



Photo 1d. CAOC 16 Hardstand – Detail of cracks along seam in pavement. View looking northeast.



Photo 1e. CAOC 16 Hardstand – Weathered concrete seams in pavement along CAOC 16 Hardstand. View looking northeast.

Photo Set 1
Yermo Annex – CAOC 16 Hardstand



Photo 1f. CAOC 16 Hardstand – Cracked seams and joints in concrete hardstand surface marked for repair. Note crack repair in lower right.



Photo 1g. CAOC 16 Hardstand – View looking southeast, west of Building 573.

Photo Set 1
Yermo Annex – CAOC 16 Hardstand



Photo 1h. CAOC 16 Hardstand – Weathered concrete pavement between rail tracks.

Photo Set 1
Yermo Annex – CAOC 16 Hardstand



Photo 1i. CAOC 16 Hardstand – Weathering and associated cracks in hardstand concrete. Note surface markings identifying area for repair.

Photo Set 2
Yermo Annex – OU 1 GETS



Photo 2a. OU 1 GETS – View looking north of Groundwater Extraction Treatment System (GETS). Fencing and signage in good condition



Photo 2b. OU 1 GETS – View looking northwest towards granulated activated carbon (GAC) vessels at the GETS.

Photo Set 3
Yermo Annex – CAOC 35 Landfill CAP



Photo 3a. CAOC 35 – View looking south of engineered landfill cap at CAOC 35.



Photo 3b. CAOC 35 – View looking northwest along fenceline at northern CAOC 35 landfill boundary. Signage and fencing in good condition.

Photo Set 3
Yermo Annex – CAOC 35 Landfill CAP



Photo 3c. CAOC 35 – View looking southeast along fenceline at north CAOC 35 landfill boundary.

Photo Set 4
Yermo Annex – CAOC 23



Photo 4a. CAOC 23 – View looking northwest at landfill cap with equipment storage, and adjacent unpaved areas. Cap in good condition.



Photo 4b. CAOC 23 – View looking north of concrete landfill cap at CAOC 23. Cap in good condition.

Photo Set 4
Yermo Annex – CAOC 23



Photo 4c. CAOC 23 – View looking north-northeast, land use control sign at CAOC 23

Photo Set 5
Yermo Annex – CAOC 20



Photo 5a. CAOC 20 – View looking southeast of landfill cap and surrounding fencing at CAOC 20.



Photo 5b. CAOC 20 – View looking southeast of landfill cap and surrounding signage and fencing.

Photo Set 5
Yermo Annex – CAOC 20



Photo 5c. CAOC 20 – Close-up view of concrete cap at CAOC 20. Note crack left-of-center, repaired with elastomeric sealant. View looking northwest.

Photo Set 6
Yermo Annex – CAOC 16 AS/SVE Wells



Photo 6a. CAOC 16 AS/SVE wells. View looking northeast.
Note: Well YM-11 in foreground.



Photo 6b. CAOC 16 AS/SVE system – Erosion along edge of well vault (ASW-8). Note: Edge of vault is 4 feet long for scale.

Photo Set 6
Yermo Annex – CAOC 16 AS/SVE Wells



Photo 6c. Yermo Annex – CAOC 16 AS/SVE – Erosion at Well Vault for ASW-5.

Photo Set 7
Nebo Main Base – CAOC 7



Photo 7a. CAOC 7 – Northwest fence corner of CAOC 7, Stratum 1 landfill cap. Fencing and cap in good condition. View looking east.



Photo 7b. CAOC 7 – Signage along fence at CAOC 7, Stratum 1 identifying restricted access to landfill cap.

Photo Set 7
Nebo Main Base – CAOC 7



Photo 7c. CAOC 7 – View looking east of entry gate to CAOC 7, Stratum 1 landfill cap. Fencing, gate, and signage in good condition. Note: landfill moisture sensor in background.



Photo 7d. CAOC 7 – View looking east-southeast at northern boundary fence of CAOC 7, Stratum 1. Note: desert tortoise fencing installed along base of boundary fence. Fencing in good condition.

Photo Set 7
Nebo Main Base – CAOC 7



Photo 7e. CAOC 7 – View looking northeast of CAOC 7, Stratum 2 engineered landfill cap. Cap and fencing in good condition.



Photo 7f. CAOC 7 – View looking south along eastern edge of CAOC 7, Stratum 2 landfill cap. Fencing in good condition.
Note: desert tortoise barrier visible at base of fence.

Photo Set 8
Nebo Main Base – CAOC 5, 6 (Nebo South LUC)



Photo 8a. CAOC 5 and Land Use Control (LUC) boundary for Nebo South (CAOC 6) – View looking northeast of CAOC 5 (former chemical storage area) toward Nebo Main Base. Note delineators identifying LUC boundary for Nebo South (CAOC 6).



Photo 8b. CAOC 5 and LUC Boundary – View looking southeast towards Interstate 40. Note CAOC 6 LUC boundary markers in foreground.

Photo Set 8
Nebo Main Base – CAOC 5, 6 (Nebo South LUC)



Photo 8c. CAOC 5 LUC Boundary – View looking west of LUC boundary sign placed on Nebo South treatment system building. Sign faces east Nebo Main Base Boundary.



Photo 8d. CAOC 5 and LUC Boundary – View looking southeast towards placard identifying Nebo South LUC boundary.

Photo Set 8
Nebo Main Base – CAOC 5, 6 (Nebo South LUC)



Photo 8e. CAOC 5 and LUC Boundary – View looking northwest towards Nebo Main Base. Note placard in foreground and delineators in background, identifying Nebo South LUC boundary.

Photo Set 8
Nebo Main Base – CAOC 5, 6 (Nebo South LUC)



Photo 8f. CAOC 5 and LUC Boundary – View looking east of sign demarcating western edge of Nebo South LUC boundary.