



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
SUPERFUND SITE STRATEGY RECOMMENDATION - REGION 06**



Site Name: Barbara J#1 Mine - NM0082 **CERCLIS ID#:** NMD981600489

Alias Site Name: Barbara Jean No. 1, Whitecap, Dalco

Address: Latitude 35 degrees 19'42.97" Longitude 107 degrees 49'47.74"

City/County or Parish/State/Zip: McKinley County, New Mexico

Report Type: Pre-CERCLIS Screening **Date:** 09/10/09 **Author:** NMED

RECOMMENDATION:

<input type="checkbox"/> 1. No Further Remedial Action Planned Under Superfund (NFRAP)	<input type="checkbox"/> 2. Further Investigation Needed Under Superfund <input type="checkbox"/> PA <input type="checkbox"/> HRS Priority: <input type="checkbox"/> High <input type="checkbox"/> SI <input type="checkbox"/> RI/FS <input type="checkbox"/> Low <input type="checkbox"/> ESI <input type="checkbox"/> RA <input type="checkbox"/> Other: _____ To be performed by: _____
<input checked="" type="checkbox"/> 3. Action Deferred to: <input type="checkbox"/> RCRA <input type="checkbox"/> NRC <input checked="" type="checkbox"/> BLM	
<input type="checkbox"/> 4. Site Being Addressed Under the State Voluntary Cleanup Program (VCP): <input type="checkbox"/> Yes <input type="checkbox"/> No	

NOTIFY AUTHORITY:

<input type="checkbox"/> Removal	<input type="checkbox"/> RCRA	<input type="checkbox"/> TSCA	<input type="checkbox"/> CAA	<input type="checkbox"/> SMCRA
<input type="checkbox"/> Remedial	<input type="checkbox"/> State/Tribe	<input type="checkbox"/> NPDES	<input type="checkbox"/> NRC	<input checked="" type="checkbox"/> Resource Trustee: <u>BLM</u>
<input type="checkbox"/> CERCLA Enforcement	<input type="checkbox"/> Federal Facility	<input type="checkbox"/> UIC	<input type="checkbox"/> SPCC	<input type="checkbox"/> Other: _____
SEND SSSR COPIES TO: <input type="checkbox"/> 6SF-AC <input type="checkbox"/> 6WQ-SP <input type="checkbox"/> ATSDR <input checked="" type="checkbox"/> State Agency <input type="checkbox"/> Tribal Agency				

DISCUSSION:

The New Mexico Energy Minerals and Natural Resources Department, Mine and Minerals Division (MMD) conducted a site assessment on August 30, 2007 at the Barbara J#1 Mine site. The New Mexico Environment Department (NMED) conducted a site assessment on July 1, 2009. The mine operated as a wet mine. NMED's predecessor conducted a screening Site Inspection in 1989. A sediment sample was collected from a streambed northeast of the mine; the radiation concentration was less than 10 pCi/g. A soil sample was also collected at a gamma radiation meter hot spot; the radiation concentration was determined to be around 1000 pCi/g. In 1993, the Khani Company demolished the mine's headframe, backfilled with waste from Barbara J #3 Mine site, and plugged the shaft with a three feet bentonite plug. MMD measured maximum gamma radiation readings at 429 uR/hr during their 2007 site visit. During NMED's 2009 site visit they observed a partially-caved shaft, open bore or vent hole, sedimentation pond, concrete pad, core house site, and several waste rock piles. The maximum gamma radiation reading of 625 counts per second was measured at the waste rock piles which are marked by erosional rills. The shaft is fenced but the borehole is open and unfenced. NMED noted remnants of a liner were visible in the sedimentation pond. There are several residences within three miles of the mine site, and the closest well is an irrigation well approximately one mile with a total uranium concentration of 48.2 ug/l. The land surface and mineral rights are held by the Bureau of Land Management.

NMED recommended that action be taken at the site to remove waste piles with elevated radioactivity and to plug open shaft and borehole. NMED also recommended that the mine site be further assessed under CERCLA to characterize the extent of site-derived waste dispersion along the drainages and impacts to groundwater.

Where there are releases that may present an imminent and substantial threat to public health or welfare or the environment,



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
SUPERFUND SITE STRATEGY RECOMMENDATION - REGION 06**



Site Name: Barbara J#2 Mine - NM0055 **CERCLIS ID#:** NMD981600489

Alias Site Name: Whitecap, Dalco No. 1, Barbara Jean No. 2

Address: Latitude 35 degrees 19'42.00" Longitude 107 degrees 50'02.05"

City/County or Parish/State/Zip: McKinley County, New Mexico

Report Type: Pre-CERCLIS Screening **Date:** 09/10/09 **Author:** NMED

RECOMMENDATION:

<input type="checkbox"/> 1. No Further Remedial Action Planned Under Superfund (NFRAP)	<input type="checkbox"/> 2. Further Investigation Needed Under Superfund <input type="checkbox"/> PA <input type="checkbox"/> HRS Priority: <input type="checkbox"/> High <input type="checkbox"/> SI <input type="checkbox"/> RI/FS <input type="checkbox"/> Low <input type="checkbox"/> ESI <input type="checkbox"/> RA <input type="checkbox"/> Other: _____ To be performed by: _____
<input checked="" type="checkbox"/> 3. Action Deferred to: <input type="checkbox"/> RCRA <input type="checkbox"/> NRC <input checked="" type="checkbox"/> BLM	
<input type="checkbox"/> 4. Site Being Addressed Under the State Voluntary Cleanup Program (VCP): <input type="checkbox"/> Yes <input type="checkbox"/> No	

NOTIFY AUTHORITY:

<input type="checkbox"/> Removal	<input type="checkbox"/> RCRA	<input type="checkbox"/> TSCA	<input type="checkbox"/> CAA	<input type="checkbox"/> SMCRA
<input type="checkbox"/> Remedial	<input type="checkbox"/> State/Tribe	<input type="checkbox"/> NPDES	<input type="checkbox"/> NRC	<input checked="" type="checkbox"/> Resource Trustee: <u>BLM</u>
<input type="checkbox"/> CERCLA Enforcement	<input type="checkbox"/> Federal Facility	<input type="checkbox"/> UIC	<input type="checkbox"/> SPCC	<input type="checkbox"/> Other: _____
SEND SSSR COPIES TO: <input type="checkbox"/> 6SF-AC <input type="checkbox"/> 6WQ-SP <input type="checkbox"/> ATSDR <input checked="" type="checkbox"/> State Agency <input type="checkbox"/> Tribal Agency				

DISCUSSION:

The New Mexico Energy Minerals and Natural Resources Department, Mine and Minerals Division (MMD) conducted a site assessment on August 22, 2007 at the Barbara J#2 Mine site. The New Mexico Environment Department (NMED) conducted a site assessment on July 1, 2009. The mine operated as a wet mine. MMD and NMED observed waste piles with the highest 348 counts per second gamma radiation reading and concrete pads remaining from mining activities. The waste piles are marked by erosional rills, indicating waste has been dispersed downstream. There are several residences within three miles of the mine site, and the closest well is an irrigation well approximately one mile with a total uranium concentration of 48.2 ug/l. The land surface and mineral rights are held by the Bureau of Land Management.

NMED recommended that action be taken at the site to remove waste piles with elevated radioactivity. NMED also recommended that the mine site be further assessed under CERCLA to characterize the extent of site-derived waste dispersion along the drainages and impacts to groundwater.

Where there are releases that may present an imminent and substantial threat to public health or welfare or the environment, Executive Order 13016 (August 28, 1996) delegates certain CERCLA authority to Federal Resource Managers. This delegation includes the authority to issue unilateral administrative orders or administrative orders on consent and the authority to request that the Department of Justice enter into a consent decree or seek a judicial order under Sections 106 and 122 of CERCLA. In accordance with the aforementioned Executive Order, as well as the Memorandum of Understanding intended to govern federal agency implementation of the authority (February 10, 1998), EPA is requesting that the Bureau of Land Management exercise, to the extent possible, its delegated authority to require performance of

response actions at the Barbara J#2 Mine.

APPROVALS:

Report Reviewed by: Lisa Marie Price **Signature:** _____ **Date:** _____
(Site Assessment Manager)

Disposition
Approved by: John Meyer **Signature:** _____ **Date:** _____
(Section Chief 6SF-TR)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
SUPERFUND SITE STRATEGY RECOMMENDATION - REGION 06



Site Name: Barbara J#3 Mine - NM0049 CERCLIS ID#: NMD981600489

Alias Site Name: Fife and Bailey, Barbara Jean No. 3

Address: Latitude 35 degrees 19'53.52" Longitude 107 degrees 49'34.22"

City/County or Parish/State/Zip: McKinley County, New Mexico

Report Type: Pre-CERCLIS Screening Date: 09/10/09 Author: NMED

RECOMMENDATION:

<input type="checkbox"/> 1. No Further Remedial Action Planned Under Superfund (NFRAP)	<input type="checkbox"/> 2. Further Investigation Needed Under Superfund
	<input type="checkbox"/> PA <input type="checkbox"/> HRS Priority: <input type="checkbox"/> High <input type="checkbox"/> SI <input type="checkbox"/> RI/FS <input type="checkbox"/> Low <input type="checkbox"/> ESI <input type="checkbox"/> RA <input type="checkbox"/> Other: _____ To be performed by: _____
<input checked="" type="checkbox"/> 3. Action Deferred to: <input type="checkbox"/> RCRA <input type="checkbox"/> NRC <input checked="" type="checkbox"/> BLM	
<input type="checkbox"/> 4. Site Being Addressed Under the State Voluntary Cleanup Program (VCP): <input type="checkbox"/> Yes <input type="checkbox"/> No	

NOTIFY AUTHORITY:

<input type="checkbox"/> Removal	<input type="checkbox"/> RCRA	<input type="checkbox"/> TSCA	<input type="checkbox"/> CAA	<input type="checkbox"/> SMCRA
<input type="checkbox"/> Remedial	<input type="checkbox"/> State/Tribe	<input type="checkbox"/> NPDES	<input type="checkbox"/> NRC	<input checked="" type="checkbox"/> Resource Trustee: <u>BLM</u>
<input type="checkbox"/> CERCLA Enforcement	<input type="checkbox"/> Federal Facility	<input type="checkbox"/> UIC	<input type="checkbox"/> SPCC	<input type="checkbox"/> Other: _____
SEND SSSR COPIES TO: <input type="checkbox"/> 6SF-AC <input type="checkbox"/> 6WQ-SP <input type="checkbox"/> ATSDR <input checked="" type="checkbox"/> State Agency <input type="checkbox"/> Tribal Agency				

DISCUSSION:

The New Mexico Energy Minerals and Natural Resources Department, Mine and Minerals Division (MMD) conducted a site assessment on August 30, 2007 at the Barbara J#3 Mine site. The New Mexico Environment Department (NMED) conducted a site assessment on July 1, 2009. The mine operated as a wet mine. NMED observed several waste piles, a concrete pad, load-out area, a mine shaft, and a well or vent hole. The well or vent hole was covered by a rusted steel plate but was probed to a depth of 458 feet without hitting a solid bottom. Waste piles are marked by erosional rills meaning waste might have been dispersed downstream. Gamma radiation readings were measured at 1924 counts per second at the load-out area. There are several residences within three miles of the mine site and the closest well is an irrigation well approximately one half of a mile with a total uranium concentration of 48.2 ug/l. The land surface and mineral rights are held by the Bureau of Land Management.

NMED recommended that action be taken at the site to remove waste piles with elevated radioactivity and to plug the open shaft and well/vent holes. NMED also recommended that the mine site be further assessed under CERCLA to characterize the extent of site-derived waste dispersion along the drainages and impacts to groundwater.

Where there are releases that may present an imminent and substantial threat to public health or welfare or the environment, Executive Order 13016 (August 28, 1996) delegates certain CERCLA authority to Federal Resource Managers. This delegation includes the authority to issue unilateral administrative orders or administrative orders on consent and the authority to request that the Department of Justice enter into a consent decree or seek a judicial order under Sections 106 and 122 of CERCLA. In accordance with the aforementioned Executive Order, as well as the Memorandum of

Understanding intended to govern federal agency implementation of the authority (February 10, 1998), EPA is requesting that the Bureau of Land Management exercise, to the extent possible, its delegated authority to require performance of response actions at the Barbara J#3 Mine.

APPROVALS:

Report Reviewed by: Lisa Marie Price **Signature:** _____ **Date:** _____
(Site Assessment Manager)

Disposition
Approved by: John Meyer **Signature:** _____ **Date:** _____
(Section Chief 6SF-TR)