

## AML EMERGENCY INVESTIGATION

**Type of Problem:** Subsidence  
**Reported by:** Sylvin Brunsell  
**Address:** 1579 41<sup>st</sup> Avenue, PO 821, Garrison, ND 58540  
**Telephone:** 701-463-2955  
**Date Complaint Received:** July 7, 2006  
**Person Notified of Complaint:** Bill Dodd - AML Division  
**Address of Complaint:** same as above  
**City:** Garrison  
**County:** McLean  
**State:** North Dakota

### SITE INVESTIGATION

**Date:** July 10, 2006  
**Time:** 10:45 AM  
**Name of State Investigators:** Bill Dodd, AML Division  
**OSM Representative(s) Present:** None  
**Others Present:** Sylvin and Linda Brunsell

**Name of others contacted (Local, State, Federal, Insurance Agencies, Utilities, etc.):**  
Alan Boehms - OSM, was contacted on July 10, 2006

### LOCATION OF SITES

**Directions of location (Describe Route):**

South Garrison Addition in the NE1/4 Section 18, T148N, R84W, immediately south of the city of Garrison, North Dakota (see map).

**USGS Quadrangle Name:** Garrison, N. Dakota  
Coordinates: 47.64362N, 101.42072W

### MINE INFORMATION

**Mined by:** Rupp Mine and Kunkel Mine  
**Duration of Mining:** **From** 1920 **Until:** 1926 (Rupp)  
**From** 1912 **Until:** 1924 (Kunkel)  
**Type of Mining:** Underground, room and pillar  
**Seam Name:** unknown **Thickness of Seam:** 5-8 feet

### **CONTINUING RECLAMATION RESPONSIBILITY**

**Permitted Operation:** No **Permit Number(s):** N/A  
**Bond Status:** Returned, Forfeited, Available N/A  
**Amount:** N/A  
**Date:** N/A

### **PRESENT OWNER(S)**

**Surface Owner's Name:** Sylvin Brunsell  
**Address:** 1579 41<sup>st</sup> Avenue, PO 821  
**City:** Garrison  
**State:** North Dakota  
**Zip Code:** 58540  
**Telephone:** (701)463-2955

**Were the Property Owners Involved in the Mining:** No  
**If yes, explain:** N/A

**Date Property Acquired by Owner:** 2004  
**If Potential Subsidence, Do Owners Have Insurance:** No  
**If yes,**  
**Agency:**  
**Agent:**  
**Address:**  
**Phone Number:**  
**Mineral Owner's Name:** Unknown

### **AFFECTED PARTIES**

Present owners, the general public and anyone using this property

### **SITE INFORMATION**

**Date that problem began or was first noticed:**  
The subsidence occurred July 6 and was reported July 7, 2006  
**Is there any active mining or related activities in or around the area:** YES  
Several surface mines are located within 50 miles but have no effect on this site

**Name of Operator(s):**  
Falkirk Mining Company, Coteau Properties Co., Dakota Westmoreland Mining Corp.

**Nature of problem:** **Source of problem:**

**Void, Shafts, Slope, Entries, etc.** Underground Mine

**Potentially Affecting:**

<b>Persons</b>	Estimated Number	10+
<b>Housing</b>		none
<b>Building</b>		none

**Estimated acres affected:** 1

**PROBLEM DESCRIPTION**

**Describe the problem (Detail: size, shape: Is problem spreading, expanding: first noticed, etc.**

On July 7, 2006 Sylvin Brunsell reported a sinkhole had occurred on the front yard of his home in South Garrison Addition. This sinkhole was inspected on the July 10, 2005 and found to be approximately 6 feet in diameter and 1-2 feet deep. This is in an area known to be undermined by abandoned underground coal mines. A pressurized grout remote backfilling project was conducted at and near this property in 2004. The Brunsell's were concerned that the subsidence may become worse. This subsidence feature is on a residential property and near a street and is a hazard to the property owner and the public.

**OTHER INFORMATION**

**Describe any other information available and its location (i.e., maps, inspections, reports, etc.)**

Mine specific information and mine maps of underground mines near Garrison are available at the North Dakota State Historical Library and are on file with the AML Division. Several previous reclamation projects have been conducted at this site.

**ELIGIBILITY**

**Declaration of eligibility from State:**

**Name:** William W. Binek, Chief Counsel

**Address:** Public Service Commission, State Capitol

**City:** Bismarck

**State:** North Dakota

**Zip Code:** 58505-0480

**Telephone:** (701) 328-2400

Oral Date                      **Written X**                      Date July 11, 2006

**Eligible: YES X** (an eligible site must be mine related, abandoned with inadequate reclamation prior to August 3, 1977, and no continuing reclamation responsibility.)

**REMARKS**

The North Dakota SHPO has been contacted concerning potential cultural or historical resources.

**ADDED VALUE**

It is doubtful that reclamation of this sinkhole will add significant value to the property. However, remedial action to eliminate the hazard will be a help to the property owners.

**PROPOSED REMEDIAL ACTION:**

- Remove all available topsoil from around the sinkholes
- Excavate the sinkhole to a depth of at least 10 feet with a backhoe
- Fill the excavated sinkholes with fill dirt and compact to the best extent possible
- Regrade the areas to re-establish drainage
- Respread topsoil over the areas
- Reseed the disturbed areas

**ESTIMATED COST**            \$2000

**Investigator:** William E. Dodd

**Signature:** \_\_\_\_\_

**Address:** State Capitol

**City:** Bismarck

**State:** North Dakota

**Zip code:** 58505-0480

**Telephone** (701) 328-4101

**Project Title:** 2006 Garrison Emergency 2

**Number:** AM-528-06