

# CO-OP MINING COMPANY

## ANNUAL REPORT 2002



**Bear Canyon Mine**  
*C/015/025*

File in:

Confidential

Shelf

Expandable

Refer to Record No. *0016* Date *04/7/2003*

In C *01500025 2003 Incoming*

For additional information

**COPY**

**CO-OP MINING COMPANY**

OK

P.O. Box 1245  
Huntington, Utah 84528

Office (435) 687-2450  
FAX (435) 687-2084

April 17, 2003

Pam Grubaugh-Littig  
Utah Division of Oil, Gas & Mining  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

**Re: Annual Report, Bear Canyon Mine, C/015/025**

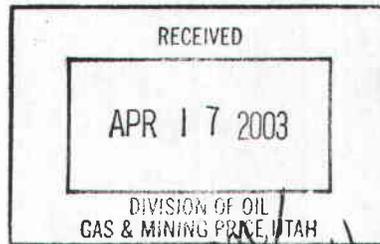
Enclosed are two copies of the Bear Canyon Mine 2002 Annual Report.

If you have any questions, please call me at (435) 687-5238.

Thank You,



Mark Reynolds,  
Environmental Coordinator



*12 PM / PH*

File in: *C/015/025 2003 Incoming*

Refer to:

Confidential

Shelf

Expandable

Date: *04/17/03* additional information

**Prepared by**

**Co-Op Mining Company**  
*P.O. Box 1245*  
*Huntington, Utah 84528*  
*(435) 687-2450*

*Mark Reynolds*

**GENERAL INFORMATION**

1. Permit Number	C/015/025
2. Mine Name	Bear Canyon Mine
3. Permittee Name	Co-Op Mining Company
4. Operator Name	
5. Permit Expiration Date	November 2, 2005
6. Company Representative,	Charles Reynolds, P.E.
7. Phone Number	(435) 687-2450
8. Fax Number	(435) 687-2084
9. Mailing Address	Co-Op mining Co.
	P.O. Box 1245
	Huntington ,Utah 84528
10. Resident Agent, Title	Mr. Wendell Owen
Mailing Address	P.O. Box 1245
	Huntington , Utah 84528

**IDENTIFICATION OF OTHER PERMITS**

Identify other permits which are required in conjunction with mining and reclamation activities.

Permit Type	ID Number	Description	Expires on
1. MSHA Mine ID(s)	42-01697	Bear Canyon #1 Mine	N/A
	42-02095	Bear Canyon #2 Mine	N/A
	42-02263	Bear Canyon #3 Mine	N/A
	42-02335	Bear Canyon #4 Mine	N/A
2. MSHA Impoundment(s)		None	
3. NPDES/UPDES Permit(s) (water)	UTG040006	Minor Industrial	04/30/03
4. PSD (Air ) Permit(s)	DAQE-145-02	Issued 2/22/02	N/A

5.			
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**CERTIFIED REPORTS**

List the certified inspection reports as required by the rules and under the approved plan which must be periodically submitted to the Division. Specify whether the information is included as APPENDIX A to this Annual Report or currently ON FILE with the Division.

Certified Reports:	Reports Required?		INCLUDED or ON FILE w/DOGM?			Comments
	YES	NO	YES	NO	ON FILE	
1. Excess Spoil Piles		X		X		
2. Refuse Piles		X		X		
3. Impoundments	X		X			Ponds A, B, C
4.						
5.						

**REPORTING OF OTHER TECHNICAL DATA**

List other technical data and information as required under the approved plan which must be periodically submitted to the Division. Specify whether the information is included as APPENDIX B to this Annual Report or currently ON FILE with the Division.

Technical Data:	Reports Required?		INCLUDED or ON FILE w/DOGM?			Comments
	YES	NO	YES	NO	ON FILE	
1. Climatological Data	X		X			
2. Subsidence Monitoring	X		X			Subsidence Report 9/9/02
3. Vegetation Monitoring		X				
4. Raptor Data	X		X			2001, 2002
5. Soils Monitoring Data		X				
6. Water Monitoring Data	X				X	
First Quarter Report	X				X	
Second Quarter Report	X				X	
Third Quarter Report	X				X	
Fourth Quarter Report	X				X	
7. Geological/Geophysical		X				
8. Engineering Data		X				
9. Other Data						
Sediment Material Analysis	X		X			
Seed Mix	X		X			



# APPENDIX A

## Certified Reports

Excess Spoil Piles  
Refuse Piles  
Impoundments

as required under R645-301-514

## CONTENTS

Sediment Pond Inspections

Permit Number	ACT\015\025	Report Date	3/29/02
Mine Name	Bear Canyon Mine		
Company Name	C.W. Mining Company		
Impoundment Identification	Impoundment Name	Sediment Pond "A"	
	Impoundment Number	002A	
	UPDES Permit Number	UTG040006	
	MSHA ID Number	N\A	

**IMPOUNDMENT INSPECTION**

Inspection Date	3/29/02		
Inspected By	Mark Reynolds / Charles Reynolds		
Reason for Inspection <small>(Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)</small>	Annual, Quarterly, Following Cleanout		

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

The pond's dam appeared sound with no signs of structural weakness, erosion or any other hazards.

Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <p>Sediment storage capacity = 39,500 ft<sup>3</sup>                  60% cleanout elevation = 7,086                  100% sediment storage elevation = 7,087.9                  Existing sediment elevation = 7,082</p> <p>3. Principle and emergency spillway elevations.</p> <p>Principle spillway elevation = 7,088                  Emergency spillway elevation = 7,094.5</p>
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4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

The pond contains 22 inches of water. The outslopes are well vegetated, with no signs of instability. The pons was cleaned 3 weeks ago.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The existing sediment volume is 0 ft<sup>3</sup>. The existing runoff storage capacity is 107,492 ft<sup>3</sup> which is greater than the 64,951 ft<sup>3</sup> required in the permit.

Qualification Statement	<p>I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.</p> <p>Signature: <u>Mark Reynolds</u> Date: <u>3/29/02</u></p>
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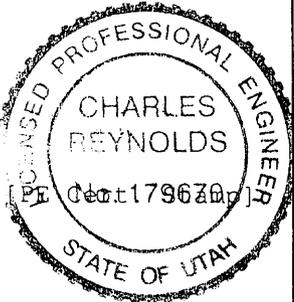
**CERTIFIED REPORT**

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	

**COMMENTS AND OTHER INFORMATION**

The pond clean out was finished 3 weeks prior to the inspection.

**Certification Statement:**



I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: Charles Reynolds, Mining Engineer  
 (Full Name and Title)

Signature: Charles Reynolds Date: 3/29/02

P.E. Number & State: 179670, Utah

<b>IMPOUNDMENT INSPECTION AND CERTIFIED REPORT</b>		002A	Page 1 of 1
Permit Number	ACT\015\025	Report Date	4/10/02
Mine Name	Bear Canyon Mine		
Company Name	C.W. Mining Company		
Impoundment Identification	Impoundment Name	Sediment Pond "A"	
	Impoundment Number	002A	
	UPDES Permit Number	UTG040006	
	MSHA ID Number	N/A	

**IMPOUNDMENT INSPECTION**

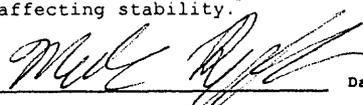
Inspection Date	4/10/02
Inspected By	Mark Reynolds
Reason for Inspection <small>(Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)</small>	Quarterly

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.  
 The pond's dam shows no signs of structural weakness or other hazardous conditions.

Required for an impoundment which functions as a SEDIMENTATION POND.	2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.  Sediment storage capacity = 39,500 ft <sup>3</sup> 60% cleanout elevation = 7,086 100% sediment storage elevation = 7,087.9 Existing sediment elevation = 7,082
	3. Principle and emergency spillway elevations.  Principle spillway elevation = 7,088 Emergency spillway elevation = 7,094.5

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.  
 The pond contains 22 inches. The embankment slopes are well vegetated with no signs of erosion or weakness.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.  
 The existing sediment volume is 0 ft<sup>3</sup>. The existing runoff storage capacity is 107,492 ft<sup>3</sup> which is greater than the 64,951 ft<sup>3</sup> required in the MRP.

Qualification Statement	<p>I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.</p> <p>Signature:  Date: 4/10/02</p>
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Permit Number	ACT\015\025	Report Date	9/03/02
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Mine Name	Bear Canyon Mine
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Company Name	C.W. Mining Company
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Impoundment Identification	Impoundment Name	Sediment Pond "A"
	Impoundment Number	002A
	UPDES Permit Number	UTG040006
	MSHA ID Number	N/A

**IMPOUNDMENT INSPECTION**

Inspection Date	9/03/02
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Inspected By	Mark Reynolds
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Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Quarterly
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1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

The pond's dam shows no signs of structural weakness or other hazardous conditions.

Required for an impoundment which functions as a SEDIMENTATION POND.	2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.
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Sediment storage capacity = 39,500 ft<sup>3</sup>  
 60% cleanout elevation = 7,086  
 100% sediment storage elevation = 7,087.9  
 Existing sediment elevation = 7,083.6

3. Principle and emergency spillway elevations.
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Principle spillway elevation = 7,088  
 Emergency spillway elevation = 7,094.5

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.

The pond contains 1.3 inches of water. The embankment slopes are well vegetated with no signs of erosion or weakness.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The existing sediment volume is 7,065 ft<sup>3</sup>. The existing runoff storage capacity is 105,735 ft<sup>3</sup> which is greater than the 64,951 ft<sup>3</sup> required in the MRP.

**Qualification Statement**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: 

Date: 9-03-02

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		002A	Page 1 of 1
Permit Number	ACT\015\025	Report Date	12/20/02
Mine Name	Bear Canyon Mine		
Company Name	C.W. Mining Company		
Impoundment Identification	Impoundment Name	Sediment Pond "A"	
	Impoundment Number	002A	
	UPDES Permit Number	UTG040006	
	MSHA ID Number	N/A	
<b>IMPOUNDMENT INSPECTION</b>			
Inspection Date	12/20/02 phh		
Inspected By	Miles Stephens		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Quarterly		
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>The pond's dam appeared sound with no signs of structural instability or other hazardous conditions.</p>			
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <p>Sediment storage capacity = 39,500 ft<sup>3</sup>  60% cleanout elevation = 7,086  100% sediment storage elevation = 7,087.9  Existing sediment elevation = 7,083</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle spillway elevation = 7,088  Emergency spillway elevation = 7,094.5</p>		
<p>4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.</p> <p>The pond is frozen. The elevation of the ice is at 7085.5. A layer of snow ranging from 0 to 5 inches covers the pond. The pond was last cleaned in August, 2000.</p>			
<p>5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.</p> <p>The existing sediment volume is 5,309 ft<sup>3</sup>. The existing runoff storage capacity is 134,027 ft<sup>3</sup> which is greater than the 64,951 ft<sup>3</sup> required in the permit.</p>			
Qualification Statement	<p>I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.</p> <p>Signature: <u>Miles Stephens</u> Date: <u>12-20-02</u></p>		

Permit Number	ACT\015\025	Report Date	3/29/02
Mine Name	Bear Canyon Mine		
Company Name	C.W. Mining Company		
Impoundment Identification	Impoundment Name	Sediment Pond "B"	
	Impoundment Number	003A	
	UPDES Permit Number	UTG040006	
	MSHA ID Number	N/A	

**IMPOUNDMENT INSPECTION**

Inspection Date	3/29/02		
Inspected By	Mark Reynolds \ Charles Reynolds		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Quarterly		

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

The pond's dam appeared sound with no signs of weakness or hazardous conditions.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.

Sediment storage capacity = 3,670 ft<sup>3</sup>  
 60% cleanout elevation = 7,062.9  
 100% sediment storage elevation = 7,063.4  
 Existing sediment elevation = 7,062.5

3. Principle and emergency spillway elevations.

Principle spillway elevation = 7,064.9  
 Emergency spillway elevation = 7,066.9

4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

The pond contains 22 inches of water. Embankment slopes appear stable and are well vegetated. The pond should be cleaned mid summer.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The pond contains 1,305 ft<sup>3</sup> of sediment, primarily around the inlet. The existing run-off storage capacity is 10,393 ft<sup>3</sup> which is greater than the 9,095 ft<sup>3</sup> required in the MRP.

Qualification Statement

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Mark Reynolds Date: 3/29/02

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		003A	Page 1 of 1
Permit Number	ACT\015\025	Report Date	4/10/02
Mine Name	Bear Canyon Mine		
Company Name	C.W. Mining Company		
Impoundment Identification	Impoundment Name	Sediment Pond "B"	
	Impoundment Number	003A	
	UPDES Permit Number	UTG040006	
	MSHA ID Number	N/A	

**IMPOUNDMENT INSPECTION**

Inspection Date	4/10/02
Inspected By	Mark Reynolds

Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Quarterly
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1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.  
The pond's dam appeared sound with no signs of weakness or hazardous conditions.

Required for an impoundment which functions as a SEDIMENTATION POND.	2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.  Sediment storage capacity = 3,670 ft <sup>3</sup> 60% cleanout elevation = 7,062.9 100% sediment storage elevation = 7,063.4 Existing sediment elevation = 7,062.5
	3. Principle and emergency spillway elevations.  Principle spillway elevation = 7,064.9 Emergency spillway elevation = 7,066.9

4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.  
The pond contains 22 inches of water. Embankment slopes appear stable and are well vegetated. The pond should be cleaned mid summer.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.  
The pond contains 1,305 ft<sup>3</sup> of sediment, primarily around the inlet. The existing runoff storage capacity is 10,393 ft<sup>3</sup> which is greater than the 9,095 ft<sup>3</sup> required in the MRP.

Qualification Statement	<p>I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.</p> <p>Signature: <u>Mark Reynolds</u> Date: <u>4/14/02</u></p>
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Permit Number	ACT\015\025	Report Date	9/03/02
Mine Name	Bear Canyon Mine		
Company Name	C.W. Mining Company		
Impoundment Identification	Impoundment Name	Sediment Pond "B"	
	Impoundment Number	003A	
	UPDES Permit Number	UTG040006	
	MSHA ID Number	N/A	

**IMPOUNDMENT INSPECTION**

Inspection Date	9/03/02		
Inspected By	Mark Reynolds		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Quarterly		

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

The pond's dam appeared sound with no signs of weakness or hazardous conditions.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.

Sediment storage capacity = 3,670 ft<sup>3</sup>  
 60% cleanout elevation = 7,062.9  
 100% sediment storage elevation = 7,063.4  
 Existing sediment elevation = 7,062 and 7,063

3. Principle and emergency spillway elevations.

Principle spillway elevation = 7,064.9  
 Emergency spillway elevation = 7,066.9

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

The pond contains no water. Embankment slopes appear stable and are well vegetated. The pond is in the process of being cleaned, it is approximately 50% done.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The pond contains 1,305 ft<sup>3</sup> of sediment on the southern end. The existing run-off storage capacity is 16,695 ft<sup>3</sup> which is greater than the 9,095 ft<sup>3</sup> required in the MRP.

<b>Qualification Statement</b>	I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.
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Signature: Mark Reynolds Date: 9-03-02

Permit Number	ACT\015\025	Report Date	12/23/02
Mine Name	Bear Canyon Mine		
Company Name	C.W. Mining Company		
Impoundment Identification	Impoundment Name	Sediment Pond "B"	
	Impoundment Number	003A	
	UPDES Permit Number	UTG040006	
	MSHA ID Number	N\A	

**IMPOUNDMENT INSPECTION**

Inspection Date	12/23/02
Inspected By	Miles Stephens

Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Annual/Quarterly
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1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

The pond's dam appeared sound with no signs of structural instability or hazardous conditions.

Required for an impoundment which functions as a <b>SEDIMENTATION POND</b> .	2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.  Sediment storage capacity = 3,670 ft <sup>3</sup> 60% cleanout elevation = 7,062.9 100% sediment storage elevation = 7,063.4 Existing sediment elevation = 7,062 and 7,063
	3. Principle and emergency spillway elevations.  Principle spillway elevation = 7,064.9 Emergency spillway elevation = 7,066.9

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

The pond is frozen and is covered with 4" of snow. Embankment slopes appear sound with no signs of weakness.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The pond contains approximately 1,305 ft<sup>3</sup> of sediment. The existing runoff storage capacity is approximately 16,695 ft<sup>3</sup> which is greater than the 9,095 ft<sup>3</sup> required in the permit.

**Qualification Statement**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: *Mels Stepten* Date: 12-23-02

**CERTIFIED REPORT**

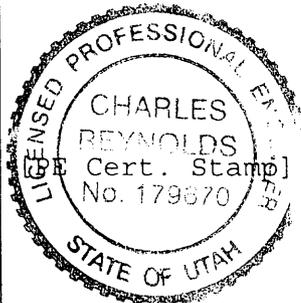
IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	

**COMMENTS AND OTHER INFORMATION**

The pond is currently in the process of being cleaned with a minimal amount of sediment having entered the pond since the previous inspection.

**Certification Statement:**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.



By: *Charles Reynolds, Mining Engineer*  
(Full Name and Title)

Signature: *Charles Reynolds* Date: 12/23/02

P.E. Number & State: 179670, Utah

Permit Number	ACT\015\025	Report Date	3/29/02
Mine Name	Bear Canyon Mine		
Company Name	C.W. Mining Company		
Impoundment Identification	Impoundment Name	Sediment Pond "C"	
	Impoundment Number	006A	
	UPDES Permit Number	UTG040006	
	MSHA ID Number	N/A	

**IMPOUNDMENT INSPECTION**

Inspection Date	3/29/02		
Inspected By	Mark Reynolds \ Charles Reynolds		
Reason for Inspection <small>(Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)</small>	Quarterly		

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.  
 The pond's dam appeared sound with no signs of instability or hazardous conditions.

Required for an impoundment which functions as a SEDIMENTATION POND.	2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.  Sediment storage capacity = 5,282 ft <sup>3</sup> 60% cleanout elevation = 7,030.3 100% sediment storage elevation = 7,031.4 Existing sediment elevation = 7,028.8 (Average)
	3. Principle and emergency spillway elevations.  Principle spillway elevation = 7,032.3 Emergency spillway elevation = 7,035.3

4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.  
 The pond is dry. Embankment slopes appear stable. The slopes are well vegetated.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.  
 The existing sediment volume is approximately 1,171 ft<sup>3</sup>. The existing storage capacity is 14,534 ft<sup>3</sup>, which is greater than the 7,881 ft<sup>3</sup> required in the MRP.

<b>Qualification Statement</b>	I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.
	Signature: <u>Mark Reynolds</u> Date: <u>3/29/02</u>

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		006A	Page 1 of 1
Permit Number	ACT\015\025	Report Date	4/10/02
Mine Name	Bear Canyon Mine		
Company Name	C.W. Mining Company		
Impoundment Identification	Impoundment Name	Sediment Pond "C"	
	Impoundment Number	006A	
	UPDES Permit Number	UTG040006	
	MSHA ID Number	N/A	
<b>IMPOUNDMENT INSPECTION</b>			
Inspection Date	4/10/02		
Inspected By	Mark Reynolds		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Quarterly		
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>The pond's dam appeared sound with no signs of instability or hazardous conditions.</p>			
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <p>Sediment storage capacity = 5,282 ft<sup>3</sup>  60% cleanout elevation = 7,030.3  100% sediment storage elevation = 7,031.4  Existing sediment elevation = 7,028.8 (Average)</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle spillway elevation = 7,032.3  Emergency spillway elevation = 7,035.3</p>		
<p>4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.</p> <p>The pond is dry. Embankment slopes appear stable. The slopes are well vegetated.</p>			
<p>5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.</p> <p>The existing sediment volume is approximately 1,171 ft<sup>3</sup>. The existing storage capacity is 14,534 ft<sup>3</sup>, which is greater than the 7,881 ft<sup>3</sup> required in the MRP.</p>			
Qualification Statement	<p>I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.</p> <p>Signature: <i>Mark Reynolds</i> Date: <u>4/10/02</u></p>		

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		006A	Page 1 of 1
Permit Number	ACT\015\025	Report Date	9/03/02
Mine Name	Bear Canyon Mine		
Company Name	C.W. Mining Company		
Impoundment Identification	Impoundment Name	Sediment Pond "C"	
	Impoundment Number	006A	
	UPDES Permit Number	UTG040006	
	MSHA ID Number	N/A	
<b>IMPOUNDMENT INSPECTION</b>			
Inspection Date	9/03/02		
Inspected By	Mark Reynolds		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Quarterly		
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>The pond's dam appeared sound with no signs of instability or hazardous conditions.</p>			
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <p>Sediment storage capacity = 5,282 ft<sup>3</sup>  60% cleanout elevation = 7,030.3  100% sediment storage elevation = 7,031.4  Existing sediment elevation = 7,029 (Average)</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle spillway elevation = 7,032.3  Emergency spillway elevation = 7,035.3</p>		
<p>4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.</p> <p>The pond is dry. Embankment slopes appear stable. The slopes are well vegetated.</p>			
<p>5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.</p> <p>The existing sediment volume is approximately 1,334 ft<sup>3</sup>. The existing storage capacity is 14,371 ft<sup>3</sup>, which is greater than the 7,881 ft<sup>3</sup> required in the MRP.</p>			
Qualification Statement	<p>I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.</p>		
	Signature: 		Date: 9-03-02

Permit Number	ACT\015\025	Report Date	12/23/02
Mine Name	Bear Canyon Mine		
Company Name	C.W. Mining Company		
Impoundment Identification	Impoundment Name	Sediment Pond "C"	
	Impoundment Number	006A	
	UPDES Permit Number	UTG040006	
	MSHA ID Number	N\A	

**IMPOUNDMENT INSPECTION**

Inspection Date	12/23/02
Inspected By	Miles Stephens

Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Annual/Quarterly
---	------------------

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.  
The pond's dam show no signs of structural weakness, erosion or any other hazards.

Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <p>Sediment storage capacity = 5,282 ft<sup>3</sup>          60% cleanout elevation = 7,030.3          100% sediment storage elevation = 7,031.4          Existing sediment elevation = 7,029 (average)</p> <p>3. Principle and emergency spillway elevations.</p> <p>Principle spillway elevation = 7,032.3          Emergency spillway elevation = 7,035.3</p>
--	--

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.  
The pond is frozen and is covered with 4" snow. Embankment slopes appear sound with no signs of instability of structural weakness. The pond was last cleaned in June, 1996.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.  
The existing sediment volume is approximately 1,334 ft<sup>3</sup>. The existing storage capacity is 14,371 ft<sup>3</sup> which is greater than the 7,881 ft<sup>3</sup> required in the MRP.

Qualification Statement	<p>I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.</p> <p>Signature: <u>Miles Stephens</u> Date: <u>12-23-02</u></p>
-------------------------	---

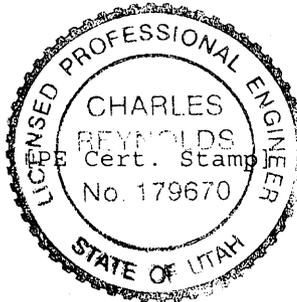
**CERTIFIED REPORT**

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	

COMMENTS AND OTHER INFORMATION

Certification Statement:

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.



By: Charles Reynolds, Mining Engineer  
(Full Name and Title)

Signature: Charles Reynolds Date: 12/23/02

P.E. Number & State: 179670, Utah

## APPENDIX B

### Reporting of Technical Data

including monitoring data, reports, maps, and other information  
as required under the approved plan  
or as required by the Division

in accordance with the requirements of R645-301-130 and R645-301-140.

### CONTENTS

Climatological Data  
Subsidence Monitoring Data and Map  
Raptor Survey

Precipitation - Bear Canyon

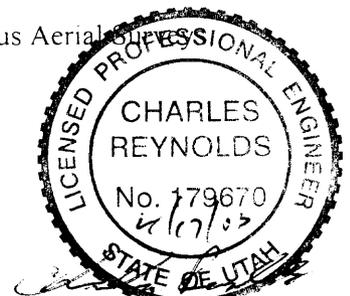
Date	Gauge Reading	Precipitation	Date	Gauge Reading	Precipitation
1/1/2002	0		4/18/2002	0	snow
-----	-----	no precipitation	-----	-----	no precipitation
-----	-----	during this	-----	-----	during this
-----	-----	period	-----	-----	period
2/8/2002	0	Lt snow	5/22/2002	0.03	snow
2/9/2002	0		-----	-----	no precipitation
-----	-----	no precipitation	-----	-----	during this
-----	-----	during this	-----	-----	period
-----	-----	period	10/2/2002	0.7	snow
2/16/2002	0.01	snow	10/3/2002	0.07	snow
2/17/2002	0	no precipitation	-----	-----	no precipitation
2/18/2002	0	snow	-----	-----	during this
2/19/2002	0	snow	-----	-----	period
2/20/2002	0	snow	10/23/2002	0.09	snow
2/21/2002	0	no precipitation	-----	-----	no precipitation
2/22/2002	0	snow	-----	-----	during this
2/23/2002	0	no precipitation	-----	-----	period
2/24/2002	0	snow	10/27/2002	0.06	snow
2/25/2002	0	snow	10/28/2002	0	snow
2/26/2002	0	no precipitation	-----	-----	no precipitation
2/27/2002	0	no precipitation	-----	-----	during this
2/28/2002	0	snow	-----	-----	period
3/1/2002	0	snow	11/7/2002	0.01	snow
-----	-----	no precipitation	11/8/2002	0.02	snow
-----	-----	during this	11/9/2002	0.23	snow
-----	-----	period	11/10/2002	0.44	snow
3/7/2002	0.24	1ft snow	-----	-----	no precipitation
3/8/2002	0	snow	-----	-----	during this
3/9/20202	0	snow	-----	-----	period
-----	-----	no precipitation	11/25/2002	0	snow
-----	-----	during this	-----	-----	no precipitation
-----	-----	period	-----	-----	during this
3/14/2002	0	snow	-----	-----	period
3/15/2002	0	no precipitation	12/16/2002	0.2	snow
3/16/2002	0	snow	12/17/2002	0.01	lt. Snow
-----	-----	no precipitation	12/18/2002	0	no precipitation
-----	-----	during this	12/19/2002	0	no precipitation
-----	-----	period	-----	-----	no precipitation
4/17/2002	0	snow	-----	-----	during this
			-----	-----	period

**CO-OP MINING COMPANY  
SUBSIDENCE MONITORING  
TRAIL AND BEAR CANYON MINES**

STATION	LOCATION	ELEVATION			Change	
		Initial	7/20/01	10/28/02	Last	Acc.
SMS-1	Bear Canyon	9188.57	9187.64	9187.73	+0.09	-0.84
SMS-2	Bear Canyon	8542.60	8538.65	8537.68	-0.97	-4.92
CON-5	Bear Canyon	9379.91	9379.91	9179.91	--	--
CON-6	Gentry Mtn.	9491.62	9491.62	9491.62	--	--
SMS-7	Lease U-024316	9398.78	9398.40	9398.34	-0.06	-0.44
SMS-8	McCadden Hollow	9062.15	9062.16	9062.19	+0.03	+0.04
SMS-9	Lease U-024316	9348.91	9347.83	9348.12	+0.29	-0.79
SMS-10	Lease U-024316	9331.62	9331.76	9331.76	0.00	+0.14
SMS-11	Lease U-024316	9399.77	9399.85	9399.83	-0.02	+0.06
SMS-12	Lease U-024316	9388.60	9388.69	9388.62	-0.07	+0.02
SMS-13	Lease U-024316	9378.75	9378.42	9378.45	+0.03	-0.30
SMS-14	Bear Canyon	9311.99	9311.34	9311.33	-0.01	-0.66
SMS-15	Bear Canyon	9277.51	9276.54	9277.13	+0.59	-0.38
SMS-16	Bear Canyon	9262.48	9262.04	9261.94	-0.10	-0.54
SMS-17	Lease U-024316	9210.76	9210.50	9210.63	+0.13	-0.13
SMS-25	Bear Canyon	9005.95	9005.72	9005.76	+0.04	-0.19
SMS-26	Lease U-024316	8966.38	8966.19	8966.19	0.00	-0.19
SMS-27	Lease U-024316	8895.59	8896.16	8895.98	-0.18	+0.39
SMS-28	Lease U-024316	8833.58	8833.26	8833.22	-0.04	-0.36
SMS-29	Lease U-024316	8649.76	8649.29	8649.24	-0.05	-0.52
SMS-30	Lease U-024316	9100.37	9100.38	9100.36	-0.02	-0.03

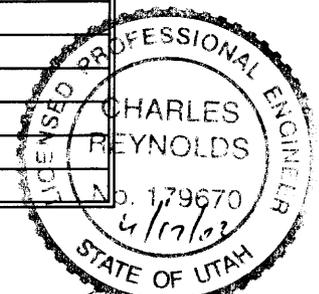
Notes:

- (1) SMS-17 through SMS-24 incorrectly located in 1997. SMS-17 re-established 10/08/99 and SMS-18 through SMS-24 replaced by SMS-25 through SMS-30.
- (2) The area was walked between all stations. Areas of visible movement, cracks or other subsidence effects which were observed are shown on Plate 3-3.
- (3) Repair work on the cracks observed in 2000 was completed in July, 2001.
- (4) In 2002 new baseline subsidence monitoring points were established by Olympus Aerial which included the new WHR areas.



Olympus Aerial Surveys, Inc.  
 Report for October 9, 2002  
 For  
 Co-Op Mining Company  
 Bear Canyon Subsidence **First Study**

POINT	EASTING	NORTHING	2002	COMMENTS
			ELEVATION	
500	2110762.355	399780.241	9109.748	
501	2110961.258	400436.201	9032.621	
502	2111861.962	393725.546	8252.418	
503	2112283.963	399690.792	9314.999	
504	2113019.904	400644.916	9359.049	
505	2113089.520	400585.283	9387.231	
506	2113149.191	400416.324	9371.245	
507	2113258.588	400615.100	9389.916	
508	2113318.259	400287.119	9308.762	
509	2113537.052	400247.364	9268.422	
510	2113755.845	400386.508	9272.684	
511	2113855.297	400446.140	9261.356	
512	2114358.525	401461.490	9302.456	
513	2114835.892	400785.652	9040.212	
514	2114846.619	400293.540	8918.303	
515	2114946.070	400323.357	8863.409	
516	2115015.686	400303.479	8812.970	
517	2115065.412	400214.030	8743.131	
518	2115224.535	400094.764	8570.114	
519	2115333.150	402047.879	9251.258	
520	2116456.621	394510.710	8199.644	
521	2116795.868	396087.444	8694.958	
522	2116944.264	401401.857	9469.835	
523	2117859.999	395829.035	8650.200	
524	2117909.725	396954.106	9055.792	
525	2117938.449	391807.359	8545.422	
526	2118039.012	396159.003	8820.325	
527	2118704.225	394769.119	8470.668	
528	2119092.086	392165.155	8699.377	
529	2119191.538	395166.670	8775.592	
530	2119420.276	395494.650	8923.794	
531	2119837.973	394222.485	8438.392	
532	2119921.762	392401.872	8930.351	
533	2120026.931	396170.488	9148.584	
534	2120299.678	393842.997	8803.530	
535	2120498.581	392372.056	8925.239	
536	2120603.749	395166.670	9058.705	
537	2120707.429	390791.788	8866.586	
538	2120816.826	393743.609	9054.427	
539	2120975.948	392322.362	8629.768	
540	2121403.589	395035.652	8650.010	
541	2121622.383	393534.894	8751.497	
542	2121731.779	392481.382	8193.485	
543	2121831.231	395035.652	8218.974	
544	2121841.176	390702.339	8626.064	
545	2122686.514	392759.669	7958.275	



*Charles Reynolds*

Raptor Survey						
Nest #	Species	1998	1999	2000	2001	2002
816	Gold Eagle	-	Inactive	Dilapidated	-	-
817	Redtail	-	Inactive	Not Found	Inactive	Inactive
818	Redtail	-	Inactive	Not Found	Inactive	Dilapidated
819	Redtail	-	Active	Inactive	Inactive	Inactive
901	Gold Eagle	-	-	Inactive	Inactive	Inactive
902	Gold Eagle	-	-	Dilapidated	Dilapidated	Inactive
903	Gold Eagle	-	-	Inactive	Inactive	Not Found
904	Gold Eagle	-	-	Not Found	Inactive	Inactive
913	Gold Eagle	-	-	Dilapidated	Inactive	Inactive
914	Gold Eagle	-	-	Not Found	Inactive	Inactive
915	Gold Eagle	-	-	Inactive	Tended	Inactive
916	Raven	-	-	Active	Inactive	Inactive
917	Raven	-	-	Active	Inactive	Not Found
918	Gold Eagle	-	-	Inactive	Not Found	Inactive
919	Gold Eagle	-	-	Inactive	Inactive	Inactive
920	Gold Eagle	-	-	Inactive	Inactive	Inactive
921	Gold Eagle	-	-	Inactive	Inactive	Dilapidated
923	Gold Eagle	-	-	Dilapidated	Not Found	Not Found
924	Gold Eagle	-	-	Not Found	Not Found	Not Found
925	Redtail	-	-	Inactive	Not Found	Not Found
926	Gold Eagle	-	-	Inactive	Inactive	Inactive
927	Gold Eagle	-	-	Inactive	Inactive	Inactive
928	Gold Eagle	-	-	Inactive	Inactive	Inactive
929	Gold Eagle	-	-	Inactive	Inactive	Inactive
931	Redtail	-	-	Active	Inactive	Inactive
932	Gold Eagle	-	-	Inactive	Inactive	Inactive
933	Gold Eagle	-	-	Inactive	Inactive	Inactive
934	Gold Eagle	-	-	Inactive	Inactive	Inactive
935	Gold Eagle	-	-	Inactive	Inactive	Inactive
944	Gold Eagle	-	-	Active	Inactive	Inactive
945	Gold Eagle	-	-	Inactive	Tended	Inactive
964	Gold Eagle	-	-	Active	Inactive	Inactive
965	Gold Eagle	-	-	Inactive	Tended	Tended
1193	Gold Eagle	-	-	-	Active	Active
1197	Redtail	-	-	-	Inactive	Inactive
1198	Redtail	-	-	-	Active	Inactive
1199	Gold Eagle	-	-	-	Inactive	Inactive
1241	Gold Eagle	-	-	-	-	Tended

## APPENDIX C

Legal, Financial, Compliance and Related Information

Annual Report of Officers  
as submitted to the Utah Department of Commerce  
and other changes in ownership and control information  
as required under R645-301-110.

### CONTENTS

Annual Report of Officers





**ANNUAL REPORT / RENEWAL FORM**

Entity Number	Entity Type	Renewal Fee	Delinquent Date	Total Late renewal Fee	Date Entity Can No Longer Renew
836133-0142	Corporation - Domestic - Profit	\$10.00	06/10/2002	\$20.00	08/20/2002

SUBMIT SEPARATE PAYMENTS FOR MULTIPLE RENEWALS  
CHANGES MADE ON THE FORM ON THE REVERSE MUST BE TYPE WRITTEN OR COMPUTER GENERATED

OK PK 5-23-02

RECEIVED  
OFFICE OF THE CLERK  
SALT LAKE CITY, UTAH

CARL E. KINGSTON  
C. W. MINING COMPANY  
53 W ANGELO AVE  
SALT LAKE CITY UT 84115

00000055672300R000008361330142000000000000000001000

(Detach coupon above even if changes are made on the reverse side of this form)

**INSTRUCTIONS FOR ANNUAL REPORT/RENEWAL - PLEASE READ CAREFULLY**

**TIMELY RENEWAL:** Pursuant to Utah Law, all renewals must be filed within their legally prescribed time. Failure to do so may result in the loss of all protection and privileges in the State of Utah.

**RENEWAL FEES:** Application fees are subject to change by the Legislature each July 1<sup>st</sup>. The fees quoted above are current at the time this renewal form was printed. The "**Total Late Renewal Fee**" quoted above is the total amount due if renewing after the entity's Delinquent Date.

**RENEWAL:** Please submit original form only. If no changes need to be made to registered information, carefully detach the coupon above and submit with the appropriate fee in the enclosed return envelope. **For multiple renewals please submit separate payments.** Payments are accepted by check or money order and should be payable to "State of Utah" **DO NOT SEND CASH.** Please indicate registration number and/or business name on check.

**CHANGES:** At the time of renewal changes can be made to the entity's registered information with no fee by using the form printed on the reverse. If making changes, return the detached coupon, the form with changes and the appropriate fee in the enclosed return envelope. Ensure that the changes made on the reverse side of this form are being made to the entity with which this renewal is associated.

If you have questions concerning this renewal or would like to check the status of your record please contact the Corporations Information Center at: (801) 530-4849 or toll free in-state (877) 526-3994 or go to <http://www.state.ut.us/sery/bcs>. Forms may be downloaded from our Web site: <http://www.commerce.state.ut.us>

**ENTITY SPECIFIC INFORMATION:**

[www.utah.gov/commerce/abr](http://www.utah.gov/commerce/abr)

**Corporation - Domestic - Profit:** ONE (1) corporate officer with address {UCA 16-10A-830} & THREE (3) directors with addresses {UCA 16-10A-803} (exception: 16-10A-803-1b) must be reported by the entity's first anniversary annual report.

**Corporation - Foreign - Profit:** What the home state law requires

**Professional Corporation:** ONE (1) director with address and ONE (1) corporate officer with address, each must be an individual licensed to render the same specific professional services as those for which the corporation is organized or be qualified to be an officer or director under the applicable licensing act for which the corporation is organized {UCA 16-11-8}.

Use the form on the reverse to set forth any change in registered information, there is no additional fee involved when changing registered information for an entity in conjunction with that entity's renewal. **When filling out the form, it must be type written or computer generated.**

**REGISTERED PRINCIPAL INFORMATION**

To view principal information go to <http://www.utah.gov/commerce/abr>  
You will need to enter the following information on the internet:

ENTITY NUMBER: 836133-0142  
RENEWAL ID: 556723

RENEW ONLINE

RENEW ONLINE

# APPENDIX E

## Miscellaneous Data

### CONTENTS

Sediment Pond Material Analysis  
Reclamation Seed Mix



April 26, 2002

Mark Reynolds  
C.W. Mining Corporation  
P.O. Box 1245

Huntington, UT 84528

Dear Mr. Reynolds:

Attached are the analytical results for the sample received by IML on April 4, 2002. The sample was labeled C.W. Mining Co. - Bear Canyon Mine, Sed. Pond A and corresponds to IML lab number 0302S01446. The following parameters were requested for this sample: pH, Electrical Conductivity, Saturation %, Particle Size Analysis, Soluble Ca, Mg, and Na, Sodium Adsorption Ratio, Selenium, Total N, Nitrate-N, Boron, Maximum Acid Potential, Neutralization Potential, Organic Carbon, and Rock Fragments. The standard 15 day turn around time was requested.

If you have any questions or comments, please call 505.326.4737 or 800.828.1409. Thank you for choosing Inter-Mountain Laboratories.

Sincerely,

Jeff Goats  
Soil Scientist  
IML - Farmington

Enclosure: Analytical Report



Phone (505) 326-4737 Fax (505) 325-4182

Inter-Mountain Laboratories, Inc.

2506 West Main Street, Farmington, NM 87401

Page 1 of 2

**C.W. Mining Co.**  
Huntington, UT

Client Project ID: Bear Canyon Mine

IML Project #0302S01446

Date Received: 04/04/02

Report Date: 04/26/02

Lab Id	Sample Id	Depths	pH s.u.	Electrical Conductivity mmhos/cm	Saturation %	Ca meq/L	Mg meq/L	Na meq/L	SAR ratio	Sand %	Silt %	Clay %	Texture USDA	Rock Fragments %
0302S01446	Sed. Pond A.	N/A	7.5	4.45	44	17	29	9.4	2.0	68	22	10	SL	0.86



**C.W. Mining Co.**  
Huntington, UT

Client Project ID: Bear Canyon Mine  
Date Received: 04/04/02

IML Project #0302S01446  
Report Date: 04/26/02

Lab Id	Sample Id	Depths	Neutral. Potential %	Max. Acid Potential %	Organic Carbon %	Total Nitrogen %	Nitrate - N mg/Kg	Boron mg/Kg	Selenium mg/Kg	1/3 Bar FC %	15 Bar PWP %
0302S01446	Sed. Pond A.	N/A	10.3	1.5	9.4	0.40	0.7	2.0	<0.02	20.1	8.1



# CHAIN OF CUSTODY RECORD

APR-01-02 08:44 AM

Client/Project Name <i>C.W. Arving Co. - Sed Pond A</i>			Project Location <i>Emercy Co Utah</i> <i>Bear Canyon Mine</i>			<b>ANALYSES / PARAMETERS</b>								
Sampler: (Signature) <i>Mark Reynolds</i>			Chain of Custody Tape No.			Remarks								
Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers									
<i>Sed Pond A</i>	<i>3-17-02</i>	<i>12:15</i>	<i>1446</i>		<i>1</i>	<i>See attached pages</i>								
Relinquished by: (Signature) <i>Mark Reynolds</i>			Date	Time	Received by: (Signature)			Date	Time					
			<i>4/1/02</i>	<i>10:30</i>										
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time					
Relinquished by: (Signature)			Date	Time	Received by laboratory: (Signature)			Date	Time					
					<i>Dean Demont</i>			<i>4/4/02</i>	<i>1:00</i>					
<b>Inter-Mountain Laboratories, Inc.</b>								75164						
<input type="checkbox"/>	555 Absaraka Sheridan, Wyoming 82801 Telephone (307) 674-7506		<input type="checkbox"/>	1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945		<input type="checkbox"/>	1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945		<input checked="" type="checkbox"/>	2506 West Main Street Farmington, NM 87401 Telephone (505) 326-4737		<input type="checkbox"/>	11183 State Hwy. 30. College Station, TX 77845 Telephone (979) 776-8945	

P.01

COLUMBIAN MINING HUNTINGTON  
MIXTURE NAME: RECLAMATION MIX

LOT: #16426

MIXTURE CONTENTS	ORIGIN
.58% MONTANA OATS	MONTANA 92%
.64% SEDAR BLUEBUNCH WHEATRASS	WA 87%
.50% CANADIAN THICKSPINE WHEATGRASS	CANADA 97%
.48% RICHMOND INDIAN RICEGRASS	GREGON 89%
.40% LADAK ALFALFA	UTAH 52% + 34%
.55% SANDBERG BLUEGRASS VNS	MONTANA 30% + 51%
.22% GREAT BASIN WILDRYE	UTAH 55% + 26%

.12% CROP 2.58% INERT OLDEST TEST DATE: 10/01  
.24% WEED NONE FOUND

NET WEIGHT 30.00 LBS.

CW MINING CO.  
HUNTINGTON, UTAH 0

Part 1 of 2

lot number 16426 continued

*WHR  
Topsoil*

Part 2 of 2

*Charles  
has receipt  
call him  
for it*

BUYER: C.W. MINING CO.

LOT: #16444

CITY	MIXTURE CONTENTS	ORIGIN GERM/HARD
10%	BLUEBUNCH WHEATGRASS	WASHIN 93%
13%	THICKSPIKE WHEATGRASS	CANADA 97%
26%	INDIAN RICEGRASS	WASHIN 97%
7%	ALFALFA	IDAHO 74% + 20%
1%	SANDBERG BLUEGRASS	MONTAN 81% + 90%
53%	GREAT BASIN WILDRYE	COLORA 45% + 26%

47% CROP 3.28% INERT OLDEST TEST DATE: 8/ 1  
19% WEED NO NOXIOUS WEED FOUND

NET WEIGHT 20.25 LBS.

C.W. MINING CO. 3598  
P.O. BOX 300  
HUNTINGTON, UT 84528-

BUYER: C.W. MINING CO.

LOT: #16444

CITY	MIXTURE CONTENTS	ORIGIN GERM/HARD
10%	BLUEBUNCH WHEATGRASS	WASHIN 93%
13%	THICKSPIKE WHEATGRASS	CANADA 97%
26%	INDIAN RICEGRASS	WASHIN 97%
7%	ALFALFA	IDAHO 74% + 20%
1%	SANDBERG BLUEGRASS	MONTAN 81% + 90%
53%	GREAT BASIN WILDRYE	COLORA 45% + 26%

47% CROP 3.28% INERT OLDEST TEST DATE: 8/ 1  
19% WEED NO NOXIOUS WEED FOUND

NET WEIGHT 20.25 LBS.

C.W. MINING CO. 3598  
P.O. BOX 300  
HUNTINGTON, UT 84528-

MIXTURE NAME: MOUNTAIN BRUSH-CONIFER  
LOT NUMBER: 15196- ELDON STEVENS

LOT: 15196

CITY	MIXTURE CONTENTS	ORIGIN
	100% BEAR BLUERUNCH WHEATRASS	WASHIN 82%
	79% GREAT BAIN WILD RYE	WASHIN 47% + 36%
	1% WESTERN WHEATGRASS	MONTAN 92%
	1% PINROCK INDIAN RICEGRASS	OREGON 89%
	74% UTAH SERVICE BERRY	UTAH 81%
	54% SUNAC SKUNKBUSH	UTAH 84%
	32% FIRECRACKER PENSTEMON	UTAH 70%
	56% PALMER PENSTEMON	UTAH 91%
	39% BLUE FLAX	WASHIN 97%
	29% SANDBERG BLUEGRASS	MONTAN 30% + 51%
	08% VASSEYANA SAGEBRUSH	COLORA 86%
	58% LOUISIANA SAGEWORT	UTAH 78%
	52% BLUE ASTER	UTAH 90%

Part 1 of 2

lot number 15196 continued

51% WESTERN YARROW

COLORA 92%

24% DROP 15.46% INERT OLDEST TEST DATE: 3/02

39% WEED NO NOXIOUS FOUND

NET WEIGHT 43.05 LBS

C.W. MINING  
373 BEAR CANYON ROAD  
HUNTINGTON CANYON  
HUNTINGTON UTAH 84528

Part 2 of 2

5/11/03

**IX NAME: Mountain Brush**

EQUESTED	KIND	PURE SEED	TOTAL	HARD	ORG	TEST DATE
		IN MIX	GERM	SEED		
4.06%	Shrub, Sagebrush, Wyoming Big	0.58 %	92.00%	0.00%	WY	01/11/2001
1.01%	Shrub, Sagebrush, Prairie	0.99 %	85.00%	0.00%	ID	09/15/2001
10.15%	Shrub, Mahogany True Mountain	6.46 %	37.00%	0.00%	AZ	01/02/2002
3.55%	Shrub, Skunkbush	3.19 %	84.00%	0.00%	UT	05/22/2002
3.04%	Shrub, Serviceberry	2.96 %	83.00%	0.00%	UT	08/03/2002
1.25%	Flower, Yarrow, White	0.25 %	97.00%	0.00%	Urag	06/15/2002
1.56%	Flower, Aster, Blue Leaf	0.55 %	90.00%	0.00%	OR	09/15/2001
4.16%	Vetch, Utah Sweet	4.11 %	24.00%	69.00%	ID	03/11/2002
1.32%	Flower, Flax, Appar Lewis	1.31 %	94.00%	0.00%	WA	08/22/2002
1.52%	Penstemon, Firecracker	1.40 %	85.00%	0.00%	UT	01/21/2002
1.37%	Flower, Penstemon, Palmer	1.30 %	95.00%	0.00%	ID	03/14/2002
8.52%	Wildrye, Basin, Trailhead	8.26 %	93.00%	0.00%	ID	10/23/2001
1.22%	Bluegrass, Sandberg	1.16 %	86.00%	0.00%	UT	06/15/2002
8.52%	Wheatgrass, Western	8.35 %	82.28%	0.00%	WA	06/15/2002
8.12%	Wheatgrass, Bluebunch Secar	8.03 %	95.00%	0.00%	WA	06/15/2002
42.63%	Ricegrass, Indian	41.53 %	3.00%	3.00%	MT	07/17/2002

TANKS

OTHER CROP : 0.56%  
 INERT MATTER : 7.50%  
 SEED : 0.51%  
 TOXIOUS: NONE FOUND  
 BAG WEIGHT : 19.6lb NET

Agrono Tec Seed Co.  
 21420 Bundy Canyon Rd  
 Wildomar, CA 92595

AMS 680

CUSTOMER: CO-OP MINE

LOT: #16068

PURITY MIXTURE CONTENTS  
36.01% SECAR BLUEBUNCH WHEATRASS  
22.84% THICKSPIKE WHEATGRASS  
11.41% NESPAR INDIAN RICEGRASS  
9.12% SANDBERG BLUEGRASS VNS  
8.29% ALFALFA  
7.79% GREAT BASIN WILD RYE

ORIGIN GERM/HARD  
XX 82%  
CANADA 97%  
WASHIN 97%  
MONTAN 30% + 51%  
CANADA 79% + 10%  
COLORA 45% + 26%

0.26% CROP 4.26% INERT  
0.02% WEED NON FOUND

ANALYSIS TEST DATE: 6/01

NET WEIGHT 31.27 LBS

CO-OP MINE  
HUNTINGTON CANYON  
HUNTINGTON, UTAH 84528

0

# APPENDIX D

## Mine Maps

as required under R645-301-525.270.

### CONTENTS

3-4A	#1 Mine Blind Canyon Seam
3-4B	#1 Mine Hiawatha Seam
3-4C	#2 Mine Tank Seam
7-10A through 7-10C	Mine Water Surveys