

WHITE OAK MINING AND CONSTRUCTION

WHITE OAK MINE NO. 1 & 2

1998 ANNUAL REPORT

# 1998 Annual Report Review

Permittee: White Oak Mining and Construction  
 Mine Name: White Oak Mine No. 1&2  
 Permit Number: ACT/007/001  
 Date Report Received April 12, 1999  
 Assigned Reviewers: S.J.Demczak, Paul Baker, Mike Suflita

**Instructions:** The assigned staff will review their respective portions of the Annual report and provide a written determination (findings) on how the Mine has or has not met the permit requirements for reporting. If the report is deficient or remedial action is required to obtain compliance, this should be noted and the inspector notified. Once all reviewers have completed the report, they should initial it and a copy will be filed in the Mine folder #6.

**Assignments: Inspectors:** Review cover sheet, AVS legal/financial, Mine sequence map  
**Hydrologists:** Review water monitoring data, Precipitation and climatological data, Non-coal waste  
**Biologists:** Review vegetation/revegetation success monitoring, Raptor survey  
**Engineers:** Review subsidence monitoring data, Annual impoundment certification, Annual overburden, spoils, refuse, floor, etc.

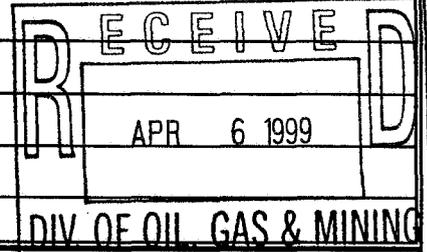
Section to review	Submitted Yes	No	Findings
Cover sheet	<u>  x  </u>	<u>  </u>	Complete and Adequate
AVS; Legal/Financial Update	<u>  </u>	<u>  X  </u>	Permittee states not required and not on file see pg 3
Mine Sequence Map	<u>  x  </u>	<u>  </u>	Not certified
Water Monitoring Data	<u>  X  </u>	<u>  </u>	Previously sent in on quarterly reports.
Precipitation & Climatological Data	<u>  </u>	<u>  X  </u>	Not required.
Non-Coal Waste report	<u>  X  </u>	<u>  </u>	
Subsidence monitoring data	<u>  X  </u>	<u>  </u>	Complete and Adequate
Annual Impoundment Certification	<u>  X  </u>	<u>  </u>	Complete and Adequate. All four quarters reported for all five ponds. No reported problems.

Annual Overburden, Spoil, Refuse, Floor, etc.	<u>X</u> <u>   </u>	Complete and Adequate
Vegetation data	<u>   </u> <u>X</u>	No information required.
Revegetation Success monitoring	<u>   </u> <u>X</u>	No information required.
Raptor survey	<u>X</u> <u>   </u>	Plan says areas with suitable habitat will be surveyed. The only nests shown in the survey are on the east side of the O'Connor Fault and would not be undermined.
Other information	<u>   </u> <u>X</u>	

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**GENERAL INFORMATION**

1. Permit Number	ACT/007/001
2. Mine Name	WHITE OAK 1 & 2
3. Permittee Name	WHITE OAK MINING & CONSTRUCTION
4. Operator Name (if other than Permittee)	SAME
5. Permit Expiration Date	1999
6. Company Representative, Title	MARK WAYMENT
7. Phone Number	(435) 637-9200
8. Fax Number	(435) 448-9456
9. Mailing Address	HC 35 BOX 370 HELPER, UT 84526
10. Resident Agent, Title	VICKY S. MILLER
Mailing Address	EARTHFAX ENGINEERING, INC. 18 MAPLE STREET HELPER, UTAH 84526

**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)	42-01279	WHITE OAK MINE NO. 1	N/A
	42-01280	WHITE OAK MINE NO.2 AND LOADOUT	N/A
2. MSHA Impoundment(s)		NONE	
3. NPDES/UPDES Permit(s) (water)	UT0022985-001	SEDIMENT POND	2003
	-002	SEDIMENT POND	2003
	-003	SEDIMENT POND	2003
	-004	SEDIMENT POND	2003
	-005	CONCRETE SEDIMENT POND	2003
4. PSD (Air ) Permit(s)	DAQE960-96	APPROVAL ORDER	N/A

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6.			

**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			
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 Data	X		X			Refer to Map R645-302-728.100a in 1997 Annual Report. Written information only for 1998.
3. Vegetation Monitoring Data		X		X		
4. Raptor Data	X		X			
5. Soils Monitoring Data		X		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 Data		X		X		
8. Engineering Data		X		X		
Other Data						



# **APPENDIX A**

## Certified Reports

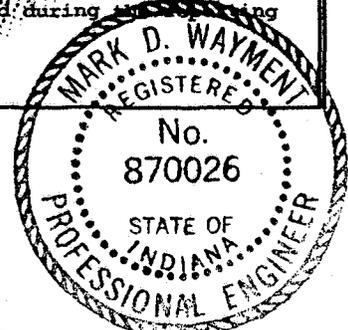
Excess Spoil Piles  
Refuse Piles  
Impoundments

as required under R645-301-514

## **CONTENTS**

Spoil Pile Reports  
Sedimentation Pond Reports

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Page 1 of 2	
Permit Number	ACT/007/001	Report Date	11/5/98
Mine Name	White Oak		
Company Name	White Oak Mining & Construction		
Excess Spoil Pile or Refuse Pile Identification	File Name	-	
	File Number	-	
	MSHA ID Number	-	
Inspection Date	11/5/98		
Inspected By	Vicky Miller & Mark Wayment		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		Quarterly	
		Attachments to Report?	X No <input type="checkbox"/> Yes
<b>Field Evaluation</b>			
1. Foundation preparation, including the removal of all organic material and topsoil. No organic matter associated with the pile.			
2. Placement of underdrains and protective filter systems. N/A			
3. Installation of final surface drainage systems. Ditches associated with pile drain to Pond 004.			
4. Placement and compaction of fill materials. The storage area is stable, having not structural weaknesses or hazardous conditions.			
5. Final grading and revegetation of fill. Natural revegetation has begun.			
6. Appearances of instability, structural weakness, and other hazardous conditions. See #4.			
7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period. N/A			



*Mark D. Wayment*

SPOIL DISPOSAL AREA  
INSPECTION FORM

R645-301-514.210. Regular inspections by the engineer or specialist will also be conducted during placement and compaction of coal mine waste materials. More frequent inspections will be conducted if a danger of harm exists to the public health and safety or the environment. Inspections will continue until the refuse pile has been finally graded and revegetated or until a later time as required by the Division.

514.220. Such inspection will be made at least quarterly throughout construction and during the following critical construction periods:

514.221. Foundation preparation including the removal of all organic material and topsoil;

514.222. Placement of underdrains and protective filter systems;

514.223. Installation of final surface drainage systems; and

514.224. The final graded and revegetated facility.

514.230. The qualified registered professional engineer will provide a certified report to the Division promptly after each inspection that the refuse pile has been constructed and maintained as designed and in accordance with the approved plan and R645 Rules. The report will include appearances of instability, structural weakness, and other hazardous conditions.

The "Spoil Storage Area" was inspected 9/29/98. The storage area presented no sign of being instable, having structural weaknesses or having any other hazardous condition. Ditches around the storage area were clean and defined. The area was covered with snow (1 - 2").



870026

IN

9/29/98

Signature of Certifying Engineer

P.E. License No.

State

Date



Permit Number

ACT 007/001

Report Date

6/23/98

Mine Name

WHITE OAK 1 + 2

Company Name

WHITE OAK MINING AND CONSTRUCTION

Excess  
Spoil Pile or  
Refuse Pile  
Identification

Pile Name

Pile Number

MSHA ID Number

Inspection Date

6/23/98

Inspected By

Vicky S. BAILEY AND GARIN HARADA

Reason for Inspection

(Annual, Quarterly or Other Periodic Inspection,  
Critical Installation, or Completion of Construction)

Attachments to Report?  No  Yes

Field Evaluation

1. Foundation preparation, including the removal of all organic material and topsoil.

NOT APPLICABLE (N/A)

2. Placement of underdrains and protective filter systems.

N/A

3. Installation of final surface drainage systems.

N/A

4. Placement and compaction of fill materials.

N/A

Final grading and revegetation of fill.

N/A

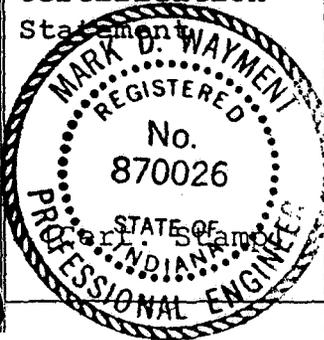
6. Appearances of instability, structural weakness, and other hazardous conditions.

PILE APPEARS STABLE WITH NO STRUCTURAL WEAKNESS OR  
OTHER HAZARDOUS CONDITIONS.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse File structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

NO EVIDENCE OF MATERIAL BEING ADDED TO PILE DURING  
THE SECOND QUARTER OF 1998.

Certification  
Statement



I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure 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.

By: M. D. WAYMENT, MANAGER TECHNICAL SERVICES  
(Full Name and Title)

Signature: [Handwritten Signature] Date: 6/23/98

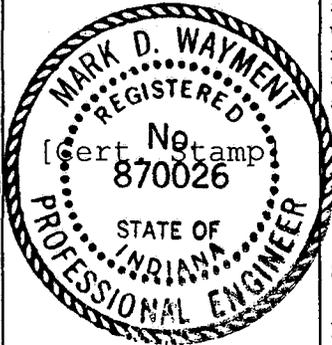
P.E. Number & State: #870026, INDIANA

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Page 1 of	
Permit Number	ACT 007/001	Report Date	4/24/98
Mine Name	WHITE OAK 1 & 2		
Company Name	WHITE OAK MINING AND CONSTRUCTION		
Inspection Date	3/30/98		
Inspected By	VICKY BAILEY AND GARIN HARADA		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		QUARTERLY	
		Attachments to Report? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
<b>Field Evaluation</b>			
1.    Foundation preparation, including the removal of all organic material and topsoil. N/A			
2.    Placement of underdrains and protective filter systems. N/A			
3.    Installation of final surface drainage systems. N/A			
4.    Placement and compaction of fill materials. N/A			
5.    Final grading and revegetation of fill. N/A			
6.    Appearances of instability, structural weakness, and other hazardous conditions. SNOW COVERED PILE APPEARS STABLE, NO SIGNS OF STRUCTURAL WEAKNESS OR HAZARDOUS CONDITIONS. SEVERAL TIMBERS AND OTHER NON COAL WASTE EVIDENT IN PILE. PERSONNEL INFORMED AND REMOVAL REQUESTED.			

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

NO EVIDENCE OF MATERIAL BEING ADDED TO THE PILE DURING THE 1<sup>ST</sup> QUARTER OF 1998. REQUESTED CLEANING OF DITCHES ASSOCIATED WITH THE PILE.

Certification Statement



I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure 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.

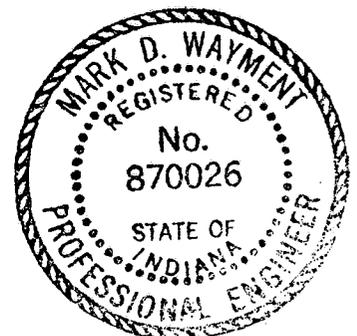
By: MARK D. WAYMENT, MGR. TECH SERVICES.  
(Full Name and Title)  
Signature: *[Handwritten Signature]* Date: 5/26/98  
P.E. Number & State: 870026, INDIANA

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of 19
Permit Number	ACT 007/001	Report Date
Line Name	WHITE OAK 1 & 2	
Company Name	WHITE OAK MINING AND CONSTRUCTION	
	Impoundment Number	001
	UPDES Permit Number	UTG040021
<b>IMPOUNDMENT INSPECTION</b>		
Inspection Date	11/5/98	
Inspected By	Vicky Miller and Mark Wayment	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Quarterly Inspection	
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>Material was compacted with no signs of instability, structural weakness or other hazardous conditions. Some snow in pond and on slopes.</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>Available Sediment Storage: 0.6ACF            60% Sediment Storage Elevation - 7809.3 feet            100% Sediment Storage Elevation - 7816.1 feet</p>	
	<p>3. Principle and emergency spillway elevations.</p> <p>7816.10 feet Principle spillway      7818.8 feet Emergency spillway</p>	
	<p>4. Field Information.</p> <p>-----</p> <p>The pond contained approximately 3 feet of water, the inlet to the pond was in good repair. Some sign of use by deer, small mammals and birds. No sign of discharge. Pond waterline on banks showed sign of increased water, potentially from precipitation and the site surface runoff due to precipitation.</p> <p>The pond appears stable and able to function as intended.</p>	



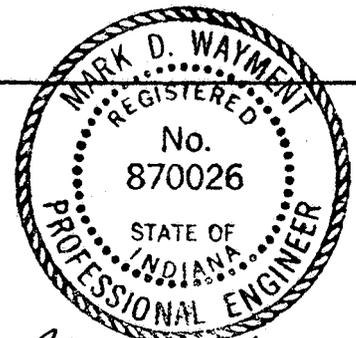
*Mark D. Wayment*

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 5 of 19	
Permit Number	ACT 007/001	Report Date	
Line Name	WHITE OAK 1 & 2		
Company Name	WHITE OAK MINING AND CONSTRUCTION		
	Impoundment Number	002	
	UPDES Permit Number	UTG040021	
<b>IMPOUNDMENT INSPECTION</b>			
Inspection Date	11/5/98		
Inspected By	Vicky Miller, Mark Wayment		
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>No appearance of instability, structural weakness 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>Available Sediment Storage: 0.75 ACF            60% Sediment Storage Elevation: 7827.6 feet            100% Sediment Storage Elevation: 7835.4 feet</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle spillway - 7835.4 feet            Emergency spillway - 7836.3 feet</p>		
	<p>4. Field Information and Evaluation.</p> <p>No discharge from the pond. Approximately 4 feet of water impounded within the pond. Sign of use by animals. Inlet stable with straw bales used to retain sediment in ditches reporting to pond. Limited snow on slopes.</p>		



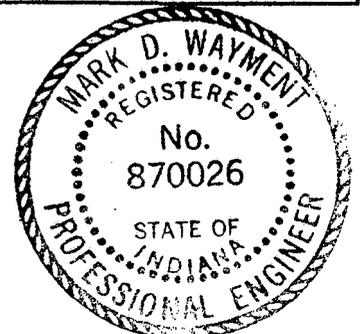
*Mark Wayment*

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 8 of 19
Permit Number	ACT 007/001	Report Date
Line Name	WHITE OAK 1 & 2	
Company Name	WHITE OAK MINING AND CONSTRUCTION	
	Impoundment Number	003
	UPDES Permit Number	UTG040021
<b>IMPOUNDMENT INSPECTION</b>		
Inspection Date	11/5/98	
Inspected By	Vicky Miller, Mark Wayment	
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>No sign of instability, structural weakness 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>Available Sediment Storage: 1.87 ACF            60% Sediment Storage Elevation: 7858.2 feet            100% Sediment Storage Elevation: 7863.2 feet</p>	
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle Spillway Elevation: 7863.2 feet            Emergency Spillway Elevation: 7865.5 feet</p>	
	<p>4. Field Information and Evaluation.</p> <p>Water in center of pond, due to mudding conditions the exact depth was not determined. No discharge from pond during inspection, nor signs of discharge is the past. Ditches reporting to pond are in good repair and show signs of limited runoff.</p>	



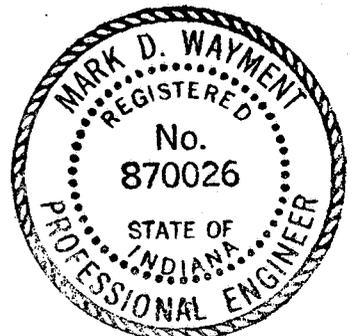
*Mark D. Wayment*

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 11 of 19	
Permit Number	ACT 007/001	Report Date	
Line Name	WHITE OAK 1 & 2		
Company Name	WHITE OAK MINING AND CONSTRUCTION		
	Impoundment Number	004	
	UPDES Permit Number	UTG040021	
<b>IMPOUNDMENT INSPECTION</b>			
Inspection Date	11/5/98		
Inspected By	Vicky Miller, Mark Wayment		
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>No sign of instability, structural weakness 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>Available Sediment Storage: 1.80 ACF            60% Sediment Storage Elevation: 8868.86 feet            100% Sediment Storage Elevation: 8874.43 feet</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle Spillway Elevation: 8874.93 feet            Emergency Spillway Elevation: 8876 feet</p>		
	<p>4. Field Information and Evaluation.</p> <p>Pond contains water, however no discharge during the inspection. Ditches and sumps associated with this pond are clean and operational. Pond used by deer and other wildlife. Reinstalled inlet appears to be working as designed.</p>		



*Mark D. Wayment*

<b>IMPOUNDMENT INSPECTION AND CERTIFIED REPORT</b>		<b>Page 14 of 19</b>	
Permit Number	ACT 007/001	Report Date	
Line Name	WHITE OAK 1 & 2		
Company Name	WHITE OAK MINING AND CONSTRUCTION		
	Impoundment Number	005	
	UPDES Permit Number	UTG040021	
<b>IMPOUNDMENT INSPECTION</b>			
Inspection Date	11/5/98		
Inspected By	Vicky Miller, Mark Wayment		
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>No sign of instability, structural weakness or other hazardous conditions. No discharge. Pond not in use.</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>Pond Capacity: 117,810 gallons Depth of Concrete Pond: 6 feet</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle spillway: 9029 feet (approximate)</p>		



*Mark Wayment*

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of	
Permit Number	ACT 007/001	Report Date	
Mine Name	WHITE OAK 1 & 2		
Company Name	WHITE OAK MINING AND CONSTRUCTION		
	Impoundment Number	001	
	UPDES Permit Number	UTG040021	
<b>IMPOUNDMENT INSPECTION</b>			
Inspection Date	9/29/98		
Inspected By	Vicky Miller and Mark Wayment and Dannie Blanton		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		Quarterly Inspection	
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>Material was compacted with no signs of instability, structural weakness 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>Available Sediment Storage: 0.6ACF            60% Sediment Storage Elevation - 7809.3 feet            100% Sediment Storage Elevation - 7816.1 feet</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>7816.10 feet Principle spillway      7818.8 feet Emergency spillway</p>		
	<p>4. Field Information.</p> <p>The pond contained approximately 2.5 feet of water, the inlet to the pond was in good repair with minimal signs of runoff. Some sign of use by deer, small mammals and birds. No sign of discharge, waterline on banks was low within the pond.</p>		
	<p>5. Field Evaluation.</p> <p>Pond appears stable and able to function as intended.</p>		



IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page of	
Permit Number	ACT 007/001	Report Date	
Mine Name	WHITE OAK 1 & 2		
Company Name	WHITE OAK MINING AND CONSTRUCTION		
	Impoundment Number	002	
	UPDES Permit Number	UTG040021	
<b>IMPOUNDMENT INSPECTION</b>			
Inspection Date	8/28/98		
Inspected By	Vicky Miller, John Walters, Steve Demczak		
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>No appearance of instability, structural weakness 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>Available Sediment Storage: 0.75 ACF            60% Sediment Storage Elevation: 7827.6 feet            100% Sediment Storage Elevation: 7835.4 feet</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle spillway - 7835.4 feet            Emergency spillway - 7836.3 feet</p>		
	<p>4. Field Information and Evaluation.</p>		
	<p>No discharge from the pond. Approximately 2.5 feet of water impounded within the pond. Sign of use by animals. Inlet stable with strawbales used to retain sediment in ditches reporting to pond.</p>		

**CERTIFIED REPORT**

**IMPOUNDMENT EVALUATION** (If NO, explain under Comments)

YES

NO

1. Is impoundment designed and constructed in accordance with the approved plan?

Yes

2. Is impoundment free of instability, structural weakness, or any other hazardous condition?

Yes

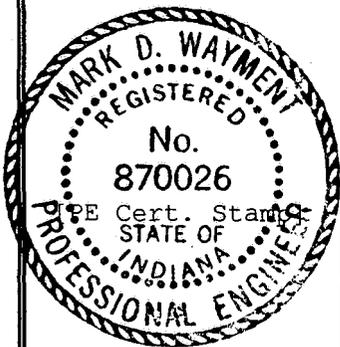
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?

Yes

**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: MARK D. WAYMENT, MGR TECH SERVICES  
(Full Name and Title)

Signature: [Handwritten Signature] Date: 11/16/98

P.E. Number & State: 870026 INDIANA

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page of	
Permit Number	ACT 007/001	Report Date	
Mine Name	WHITE OAK 1 & 2		
Company Name	WHITE OAK MINING AND CONSTRUCTION		
	Impoundment Number	003	
	UPDES Permit Number	UTG040021	
<b>IMPOUNDMENT INSPECTION</b>			
Inspection Date	8/28/98		
Inspected By	Vicky Miller, John Walters, Steve Demczak		
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>No sign of instability, structural weakness 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>Available Sediment Storage: 1.87 ACF            60% Sediment Storage Elevation: 7858.2 feet            100% Sediment Storage Elevation: 7863.2 feet</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle Spillway Elevation: 7863.2 feet            Emergency Spillway Elevation: 7865.5 feet</p>		
	<p>4. Field Information and Evaluation.</p>		
	<p>Small amount of water in center of pond. No discharge from pond during inspection. Ditches reporting to pond are clear and in good repair. The ditches show signs of limited runoff.</p>		

**CERTIFIED REPORT**

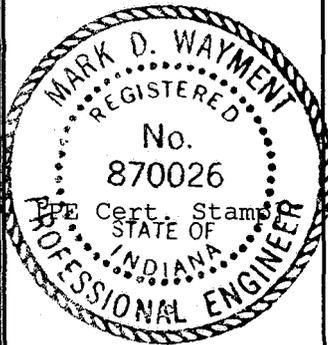
**IMPOUNDMENT EVALUATION (If NO, explain under Comments)**

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

**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: MARK D. WAYMENT, MGR. TECH SERVICES  
 (Full Name and Title)

Signature: [Handwritten Signature] Date: 11/16/98

P.E. Number & State: 870026 INDIANA

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page	of
Permit Number	ACT 007/001	Report Date	
Mine Name	WHITE OAK 1 & 2		
Company Name	WHITE OAK MINING AND CONSTRUCTION		
	Impoundment Number	004	
	UPDES Permit Number	UTG040021	
<b>IMPOUNDMENT INSPECTION</b>			
Inspection Date	8/28/98		
Inspected By	Vicky Miller, John Walters, Steve Demczak		
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 upper embankment has been reworked and compacted due to the replacement of the culvert inlet. The other embankments appear stable with no structural weakness.</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>Available Sediment Storage: 1.80 ACF  60% Sediment Storage Elevation: 8868.86 feet  100% Sediment Storage Elevation: 8874.43 feet</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle Spillway Elevation: 8874.93 feet  Emergency Spillway Elevation: 8876 feet</p>		
	<p>4. Field Information and Evaluation.</p> <p>Pond contain water, however no discharge during the inspection. Inlet culvert to pond is being replaced due to slope of culvert and possible crushing of the culvert under the pad area. Installation completed by the first week in September. Ditches and sumps associated with this pond have been cleaned.</p>		

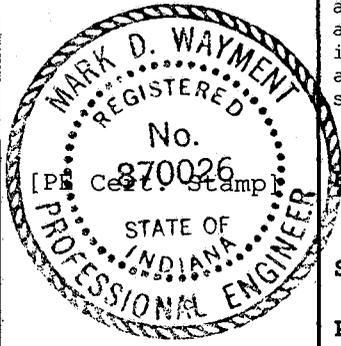
**CERTIFIED REPORT**

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

**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: MARK D. WAYMENT, ENG. SERVICES  
 (Full Name and Title)

Signature: *[Handwritten Signature]* Date: 11/16/98

P.E. Number & State: 870026 INDIANA

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page	of
Permit Number	ACT 007/001	Report Date	
Mine Name	WHITE OAK 1 & 2		
Company Name	WHITE OAK MINING AND CONSTRUCTION		
	Impoundment Number	005	
	UPDES Permit Number	UTG040021	
<b>IMPOUNDMENT INSPECTION</b>			
Inspection Date	9/30/98		
Inspected By	Vicky Miller, Mark Wayment		
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>No sign of instability, structural weakness or other hazardous conditions. Used for 5 days, no discharge.</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>Pond Capacity: 117,810 gallons Depth of Concrete Pond: 6 feet</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle spillway: 9029 feet (approximate)</p>		





POND INSPECTION FORM

POND NAME: 001A LOCATION: White Oak LOADOUT

INSPECTOR'S NAME AND AFFILIATION: Vicky S. BAILEY, CONSULTANT

Storage Level at Time of Inspection: 7806.8 (ESTIMATE)

Outflow: Outlet: 0 Spillway: 0

Weather: CLOUD COVER

Note: A [No] in the Not applicable column means not observed due to current field conditions.

EMBANKMENT	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
Settling	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Erosion	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Seepage	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Drains	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Riprap	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Vegetation	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Rodents	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Debris	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]

Comments and Photographs: \_\_\_\_\_

AVAILABLE SEDIMENT STORAGE: <u>0.6 ACF</u>					
<u>60%</u>	"	"	<u>7809.3'</u>	<u>ELEVATION</u>	
<u>100%</u>	"	"	<u>7816.1'</u>	"	

EMERGENCY SPILLWAY	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
Leakage	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Erosion	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Siltation	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Debris	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Vegetation	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Outfall Channel	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]

Comments and Photographs: \_\_\_\_\_

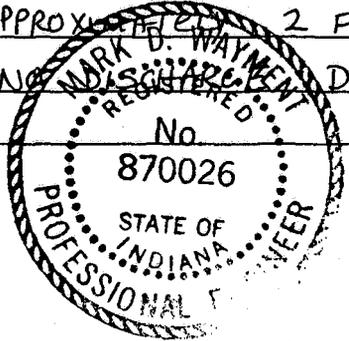
Elevation: 7818.8'

PRINCIPAL SPILLWAY	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
<b>Intake</b>					
Siltation	[ ]	[ ]	[ ]	[ ]	[ ]
Debris	[ ]	[ ]	[ ]	[ ]	[ ]
Trash Rack	[ ]	[ ]	[ ]	[ ]	[ ]
<b>Conduit</b>					
Displacement	[ ]	[ ]	[ ]	[ ]	[ ]
Deterioration	[ ]	[ ]	[ ]	[ ]	[ ]
Blockage	[ ]	[ ]	[ ]	[ ]	[ ]
Leakage	[ ]	[ ]	[ ]	[ ]	[ ]
<b>Downstream Channel</b>					
Pooling	[ ]	[ ]	[ ]	[ ]	[ ]
Erosion	[ ]	[ ]	[ ]	[ ]	[ ]
Vegetation	[ ]	[ ]	[ ]	[ ]	[ ]
Debris	[ ]	[ ]	[ ]	[ ]	[ ]

Comments and Photographs: \_\_\_\_\_  
ELEVATION: 7816.1'  
 \_\_\_\_\_  
 \_\_\_\_\_

POND BASIN	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
Fractures	[ ]	[ ]	[ ]	[ ]	[ ]
Sinkholes	[ ]	[ ]	[ ]	[ ]	[ ]
Sedimentation	[ ]	[ ]	[ ]	[ ]	[ ]
Debris	[ ]	[ ]	[ ]	[ ]	[ ]
Vegetation	[ ]	[ ]	[ ]	[ ]	[ ]
Storage Gage	[ ]	[ ]	[ ]	[ ]	[ ]

Comments and Photographs: \_\_\_\_\_  
APPROXIMATELY 2 FEET OF IMPOUNDED WATER IN POND  
NO DISCHARGE DURING 2ND QTR. OF 1998.  
 \_\_\_\_\_



Mark D. Waymire                      870026                      IN                      6/23/98  
 Signature of Certifying Engineer      P.E. License No.      State      Date

POND INSPECTION FORM

POND NAME: 002A LOCATION: WHITE OAK LOADOUT

INSPECTOR'S NAME AND AFFILIATION: Vicky S. BAILEY, CONSULTANT

Storage Level at Time of Inspection: 7829.4 (ESTIMATE)

Outflow: Outlet: 0 Spillway: 0

Weather: CLOUDY / OVERCAST

Note: A [No] in the Not applicable column means not observed due to current field conditions.

EMBANKMENT	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
Settling	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Erosion	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Seepage	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Drains	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Riprap	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Vegetation	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Rodents	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Debris	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]

Comments and Photographs: \_\_\_\_\_

AVAILABLE SEDIMENT STORAGE : <u>0.75 ACF</u>					
<u>60 %</u>	<u>"</u>	<u>"</u>	<u>7827.6'</u>	<u>ELEVATION</u>	
<u>100 %</u>	<u>"</u>	<u>"</u>	<u>7835.4'</u>	<u>"</u>	

EMERGENCY SPILLWAY	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
Leakage	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Erosion	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Siltation	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Debris	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Vegetation	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Outfall Channel	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]

Comments and Photographs: \_\_\_\_\_

<u>ELEVATION: 7836.3'</u>
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POND INSPECTION FORM

POND NAME: 003A LOCATION: White Oak LOADOUT

INSPECTOR'S NAME AND AFFILIATION: Vicky S. BAILEY, CONSULTANT

Storage Level at Time of Inspection: 7855' (ESTIMATE)

Outflow: Outlet: 0 Spillway: 0

Weather: CLOUDY / OVERCAST

Note: A [No] in the Not applicable column means not observed due to current field conditions.

EMBANKMENT	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
Settling	[ ]	⊗	[ ]	[ ]	[ ]
Erosion	[ ]	⊗	[ ]	[ ]	[ ]
Seepage	[ ]	⊗	[ ]	[ ]	[ ]
Drains	[ ]	⊗	[ ]	[ ]	[ ]
Riprap	[ ]	⊗	[ ]	[ ]	[ ]
Vegetation	[ ]	⊗	[ ]	[ ]	[ ]
Rodents	[ ]	⊗	[ ]	[ ]	[ ]
Debris	[ ]	⊗	[ ]	[ ]	[ ]

Comments and Photographs: \_\_\_\_\_

<u>AVAILABLE SEDIMENT STORAGE: 1.87 ACF</u>					
<u>60%</u>	<u>"</u>	<u>"</u>	<u>7858.2'</u>	<u>ELEVATION</u>	
<u>100%</u>	<u>"</u>	<u>"</u>	<u>7863.2</u>	<u>ELEVATION</u>	

EMERGENCY SPILLWAY	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
Leakage	[ ]	⊗	[ ]	[ ]	[ ]
Erosion	[ ]	⊗	[ ]	[ ]	[ ]
Siltation	[ ]	⊗	[ ]	[ ]	[ ]
Debris	[ ]	⊗	[ ]	[ ]	[ ]
Vegetation	[ ]	⊗	[ ]	[ ]	[ ]
Outfall Channel	[ ]	⊗	[ ]	[ ]	[ ]

Comments and Photographs: \_\_\_\_\_

<u>ELEVATION: 7865.5</u>					
_____					
_____					

PRINCIPAL SPILLWAY	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
Intake					
Siltation	[ ]	XX	[ ]	[ ]	[ ]
Debris	[ ]	XX	[ ]	[ ]	[ ]
Trash Rack	[ ]	XX	[ ]	[ ]	[ ]
Conduit					
Displacement	[ ]	XX	[ ]	[ ]	[ ]
Deterioration	[ ]	XX	[ ]	[ ]	[ ]
Blockage	[ ]	XX	[ ]	[ ]	[ ]
Leakage	[ ]	XX	[ ]	[ ]	[ ]
Downstream Channel					
Pooling	[ ]	XX	[ ]	[ ]	[ ]
Erosion	[ ]	XX	[ ]	[ ]	[ ]
Vegetation	[ ]	XX	[ ]	[ ]	[ ]
Debris	[ ]	XX	[ ]	[ ]	[ ]

Comments and Photographs: \_\_\_\_\_

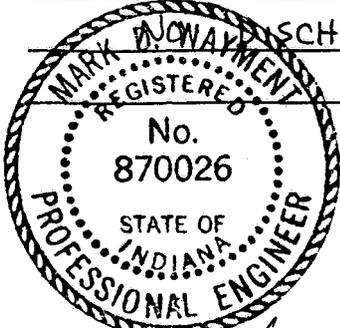
ELEVATION: 7863.2'

POND BASIN	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
Fractures	[ ]	XX	[ ]	[ ]	[ ]
Sinkholes	[ ]	XX	[ ]	[ ]	[ ]
Sedimentation	[ ]	XX	[ ]	[ ]	[ ]
Debris	[ ]	XX	[ ]	[ ]	[ ]
Vegetation	[ ]	XX	[ ]	[ ]	[ ]
Storage Gage	[ ]	XX	[ ]	[ ]	[ ]

Comments and Photographs: \_\_\_\_\_

NO WATER PRESENT IN POND.

NO DISCHARGE FROM POND DURING 2ND QTR 1998



Mark W. Wynn  
Signature of Certifying Engineer

870026  
P.E. License No.

IN  
State

6/23/98  
Date

POND INSPECTION FORM

POND NAME: 004A LOCATION: White OAK Facilities

INSPECTOR'S NAME AND AFFILIATION: Vicky S. BAILEY CONSULTANT

Storage Level at Time of Inspection: 8865' (ESTIMATE)

Outflow: Outlet: 0 Spillway: 0

Weather: CLOUDY / OVERCAST

Note: A [No] in the Not applicable column means not observed due to current field conditions.

EMBANKMENT	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
Settling	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Erosion	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Seepage	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Drains	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Riprap	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Vegetation	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Rodents	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Debris	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]

Comments and Photographs: \_\_\_\_\_

<u>AVAILABLE SEDIMENT STORAGE: 1.80 ACF</u>					
<u>60%</u>	<u>"</u>	<u>"</u>	<u>:</u>	<u>8868.86'</u>	<u>ELEVATION</u>
<u>100%</u>	<u>"</u>	<u>"</u>	<u>:</u>	<u>8874.43'</u>	<u>"</u>

EMERGENCY SPILLWAY	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
Leakage	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Erosion	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Siltation	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Debris	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Vegetation	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]
Outfall Channel	[ ]	<input checked="" type="checkbox"/>	[ ]	[ ]	[ ]

Comments and Photographs: \_\_\_\_\_

ELEVATION: 8876'

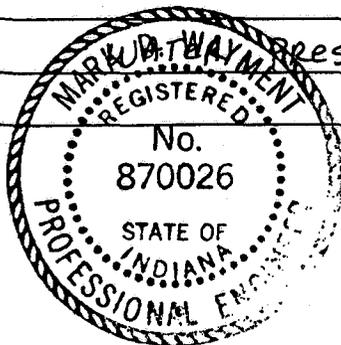
PRINCIPAL SPILLWAY	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
Intake					
Siltation	[ ]	⊗	[ ]	[ ]	[ ]
Debris	[ ]	⊗	[ ]	[ ]	[ ]
Trash Rack	[ ]	⊗	[ ]	[ ]	[ ]
Conduit					
Displacement	[ ]	⊗	[ ]	[ ]	[ ]
Deterioration	[ ]	⊗	[ ]	[ ]	[ ]
Blockage	[ ]	⊗	[ ]	[ ]	[ ]
Leakage	[ ]	⊗	[ ]	[ ]	[ ]
Downstream Channel					
Pooling	[ ]	⊗	[ ]	[ ]	[ ]
Erosion	[ ]	⊗	[ ]	[ ]	[ ]
Vegetation	[ ]	⊗	[ ]	[ ]	[ ]
Debris	[ ]	⊗	[ ]	[ ]	[ ]

Comments and Photographs: \_\_\_\_\_

ELEVATION: 8874.93'

POND BASIN	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
Fractures	[ ]	⊗	[ ]	[ ]	[ ]
Sinkholes	[ ]	⊗	[ ]	[ ]	[ ]
Sedimentation	[ ]	⊗	[ ]	[ ]	[ ]
Debris	[ ]	⊗	[ ]	[ ]	[ ]
Vegetation	[ ]	⊗	[ ]	[ ]	[ ]
Storage Gage	[ ]	⊗	[ ]	[ ]	[ ]

Comments and Photographs: \_\_\_\_\_



present in POND

Mark Wynn  
Signature of Certifying Engineer

870026  
P.E. License No.

IN  
State

6/23/98  
Date

NOT IN USE

POND INSPECTION FORM

POND NAME: 005A LOCATION: White Oak Facilities

INSPECTOR'S NAME AND AFFILIATION: Vicky S. Bailey, Consultant

Storage Level at Time of Inspection: NOT IN USE

Outflow: Outlet: \_\_\_\_\_ Spillway: \_\_\_\_\_

Weather: \_\_\_\_\_

Note: A [No] in the Not applicable column means not observed due to current field conditions.

EMBANKMENT	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
Settling	[ ]	[ ]	[ ]	[ ]	[ ]
Erosion	[ ]	[ ]	[ ]	[ ]	[ ]
Seepage	[ ]	[ ]	[ ]	[ ]	[ ]
Drains	[ ]	[ ]	[ ]	[ ]	[ ]
Riprap	[ ]	[ ]	[ ]	[ ]	[ ]
Vegetation	[ ]	[ ]	[ ]	[ ]	[ ]
Rodents	[ ]	[ ]	[ ]	[ ]	[ ]
Debris	[ ]	[ ]	[ ]	[ ]	[ ]

Comments and Photographs: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

EMERGENCY SPILLWAY	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
Leakage	[ ]	[ ]	[ ]	[ ]	[ ]
Erosion	[ ]	[ ]	[ ]	[ ]	[ ]
Siltation	[ ]	[ ]	[ ]	[ ]	[ ]
Debris	[ ]	[ ]	[ ]	[ ]	[ ]
Vegetation	[ ]	[ ]	[ ]	[ ]	[ ]
Outfall Channel	[ ]	[ ]	[ ]	[ ]	[ ]

Comments and Photographs: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

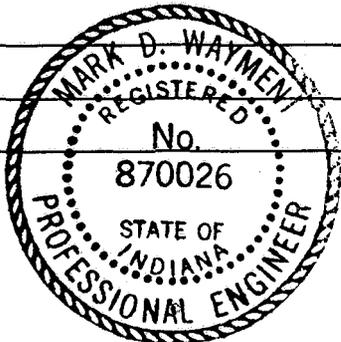
\_\_\_\_\_

PRINCIPAL SPILLWAY	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
<b>Intake</b>					
Siltation	[ ]	[ ]	[ ]	[ ]	[ ]
Debris	[ ]	[ ]	[ ]	[ ]	[ ]
Trash Rack	[ ]	[ ]	[ ]	[ ]	[ ]
<b>Conduit</b>					
Displacement	[ ]	[ ]	[ ]	[ ]	[ ]
Deterioration	[ ]	[ ]	[ ]	[ ]	[ ]
Blockage	[ ]	[ ]	[ ]	[ ]	[ ]
Leakage	[ ]	[ ]	[ ]	[ ]	[ ]
<b>Downstream Channel</b>					
Pooling	[ ]	[ ]	[ ]	[ ]	[ ]
Erosion	[ ]	[ ]	[ ]	[ ]	[ ]
Vegetation	[ ]	[ ]	[ ]	[ ]	[ ]
Debris	[ ]	[ ]	[ ]	[ ]	[ ]

Comments and Photographs: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

POND BASIN	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
Fractures	[ ]	[ ]	[ ]	[ ]	[ ]
Sinkholes	[ ]	[ ]	[ ]	[ ]	[ ]
Sedimentation	[ ]	[ ]	[ ]	[ ]	[ ]
Debris	[ ]	[ ]	[ ]	[ ]	[ ]
Vegetation	[ ]	[ ]	[ ]	[ ]	[ ]
Storage Gage	[ ]	[ ]	[ ]	[ ]	[ ]

Comments and Photographs: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



Mark D. Waymen  
 Signature of Certifying Engineer

870026  
 P.E. License No.

IN  
 State

6/23/98  
 Date

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of 18	
Permit Number	ACT 007/001	Report Date	4/24/98
Mine Name	WHITE OAK 1 & 2		
Company Name	WHITE OAK MINING AND CONSTRUCTION		
	Impoundment Number	001	
	UPDES Permit Number	UTG040021	
<b>IMPOUNDMENT INSPECTION</b>			
Inspection Date	3/30/98		
Inspected By	VICKY BAILEY AND GARIN HARADA		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	1 <sup>ST</sup> QUARTER 1998		
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>PRIMARILY SNOW COVERED. NO SIGNS OF INSTABILITY, STRUCTURAL WEAKNESS 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>ELEVATION OF 60% - 7809.7            ELEVATION OF 100% - 7816.1            ELEVATION OF EXISTING SEDIMENT - 7806.8 (ESTIMATE)            AVAILABLE SEDIMENT STORAGE - 0.6 ACF</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>EMERGENCY SPILLWAY ELEVATION - 7818.8            PRIMARY SPILLWAY ELEVATION - 7816.1</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.

POND 001 NOT DISCHARGING DURING INSPECTION, NO DISCHARGE DURING THE 1<sup>ST</sup> QUARTER OF 1998. POND 001 APPEARS TO BE IN GOOD CONDITION WITH NO SIGNS OF EROSION. POND REQUIRED NO REPAIR DURING THE 1<sup>ST</sup> QUARTER. POND EMBANKMENT OUTSLOPES ARE 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.

APPROXIMATELY 1.5 FEET OF WATER IMPOUNDED IN THE POND.

SEE ITEM 2.

**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.

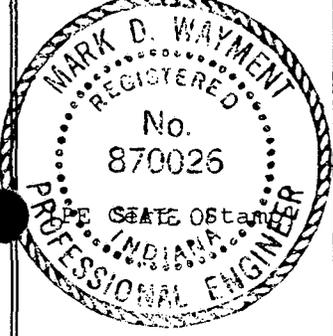
Signature: Verly A. Bailey Date: 4/24/98

**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: MARK D. WAYMENT - MGR. TECH SERVICES  
(Full Name and Title)

Signature: *Mark D. Wayment* Date: 5/26/98

P.E. Number & State: 870026 - INDIANA

Permit Number	ACT 007/001	Report Date	4/24/98
Mine Name	WHITE OAK 1 & 2		
Company Name	WHITE OAK MINING AND CONSTRUCTION		
	Impoundment Number	002	
	UPDES Permit Number	UTG040021	

IMPOUNDMENT INSPECTION

Inspection Date	3/30/98		
Inspected By	VICKY BAILY AND GARIN HARADA		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)			

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.  
 PERIODICALLY SNOW COVERED. NO EVIDENT OF INSTABILITY, STRUCTURAL 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.

ELEVATION OF 60% - 7827.6  
 ELEVATION OF 100% - 7835.4  
 ELEVATION OF EXISTING SEDIMENT - 7829.4 (ESTIMATE)  
 AVAILABLE SEDIMENT STORAGE - 0.75 ACF

3. Principle and emergency spillway elevations.

EMERGENCY SPILLWAY ELEVATION - 7836.3  
 PRIMARY SPILLWAY ELEVATION - 7835.4

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.

POND 002 NOT DISCHARGING DURING INSPECTION, NOR DID IT DISCHARGE DURING THE 1<sup>ST</sup> QUARTER OF 1998. OUTSLOPES OF EMBANKMENTS ARE 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.

APPROXIMATELY 3.5 FEET OF WATER IMPOUNDED AT THE TIME OF INSPECTION.

**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: Urchy A. Bailey Date: 4/24/98

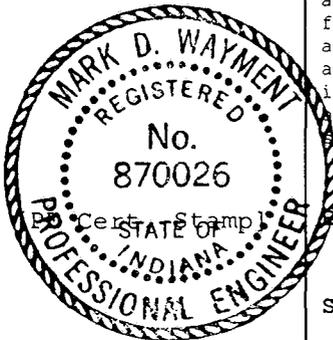
**CERTIFIED REPORT**

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: MARK D. WAYMENT - MGR. TECH SERVICES  
(Full Name and Title)  
Signature: [Handwritten Signature] Date: 5/20/98  
P.E. Number & State: 870026 - INDIANA

Permit Number	ACT 007/001	Report Date	4/24/98
Mine Name	WHITE OAK 1 & 2		
Company Name	WHITE OAK MINING AND CONSTRUCTION		
	Impoundment Number	003	
	UPDES Permit Number	UTG040021	

IMPOUNDMENT INSPECTION

Inspection Date	3/30/98
Inspected By	VICKY BAILEY AND GARIN HARADA

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

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.  
 NO SIGNS OF INSTABILITY, STRUCTURAL 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.  
 ELEVATION OF 60% - 7858.2  
 ELEVATION OF 100% - 7863.2  
 ELEVATION OF EXISTING SEDIMENT - 7855 (ESTIMATE)  
 AVAILABLE SEDIMENT STORAGE - 1.87 ACF

3. Principle and emergency spillway elevations.  
 EMERGENCY SPILLWAY ELEVATION - 7865.5  
 PRIMARY SPILLWAY ELEVATION - 7863.2

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.

NO WATER PRESENT IN POND 003 AND NO DISCHARGE DURING THE 1<sup>ST</sup> QUARTER OF 1998. OUTSLOPES OF THE EMBANKMENTS ARE 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.

SEE ITEM 2.

**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: Ucky A. Bailey Date: 4/24/98

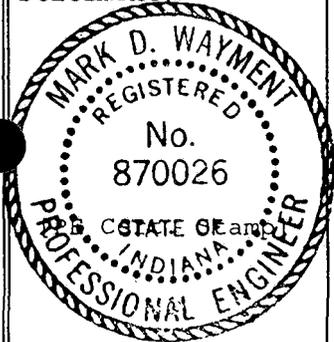
**CERTIFIED REPORT**

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: MARK D. WAYMENT - MGR-TECH SERVICES  
(Full Name and Title)

Signature: *[Handwritten Signature]* Date: 5/26/98

P.E. Number & State: 870026 - INDIANA

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 10 of 18	
Permit Number	ACT 007/001	Report Date	4/24/98
Mine Name	WHITE OAK 1 & 2		
Company Name	WHITE OAK MINING AND CONSTRUCTION		
	Impoundment Number	004	
	UPDES Permit Number	UTG040021	
IMPOUNDMENT INSPECTION			
Inspection Date	3/30/98		
Inspected By	VICKY BAILEY		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)			
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>SNOW COVERED. NO SIGNS OF INSTABILITY, STRUCTURAL WEAKNESS 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>ELEVATION OF 60% - 8868.9  ELEVATION OF 100% - 8874.9  ELEVATION OF EXISTING SEDIMENT - 8874.43 (ESTIAMTE)  AVAILABLE SEDIMENT STORAGE - 0.35 ACF</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>EMERGENCY SPILLWAY ELEVATION - 8876 (APPROXIMATE)  PRIMARY SPILLWAY ELEVATION - 8874.93</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.

POND 004 DISCHARGED IN MARCH, BUT NOT IN JANUARY OR FEBRUARY. THE SEDIMENT IN POND 004 IS SCHEDULED TO BE REMOVED IN MAY OF 1998. AFTER CLEANOUT THE POND WILL BE RECONTOURED INCLUDING THE INLET AND OUTLET TO THE POND. THE OUTSLOPES OF THE EMBANKMENTS ARE 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.

SEE ITEM 2.

**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: Victor A. Barby Date: 4/24/98

**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: MARK D. WAYMENT - MGR. TECH SERVICES  
(Full Name and Title)

Signature: *Mark Wayment* Date: 5/26/98

P.E. Number & State: 870026 - INDIANA

Permit Number	ACT 007/001	Report Date	4/24/98
Mine Name	WHITE OAK 1 & 2		
Company Name	WHITE OAK MINING AND CONSTRUCTION		
	Impoundment Number	005	
	UPDES Permit Number	UTG040021	

IMPOUNDMENT INSPECTION

Inspection Date	3/30/98
Inspected By	VICKY BAILEY

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

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.  
 NOT IN USE.

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.

ELEVATION OF 60% -  
 ELEVATION OF 100% -  
 ELEVATION OF EXISTING SEDIMENT -  
 AVAILABLE SEDIMENT STORAGE -

3. Principle and emergency spillway elevations.

EMERGENCY SPILLWAY ELEVATION -  
 PRIMARY SPILLWAY ELEVATION -

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.

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.

**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: Verly A. Bailey Date: 4/24/98

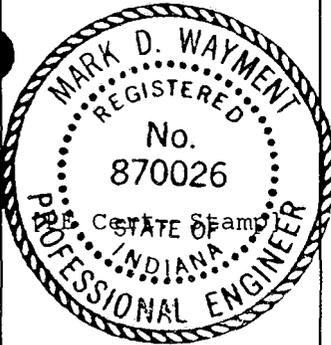
**CERTIFIED REPORT**

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: MARK D. WAYMENT, MGR. TECH SERVICES  
(Full Name and Title)

Signature: *Mark D. Wayment* Date: 5/26/98

P.E. Number & State: 870026 - INDIANA

## **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**

Subsidence Report (Refer to Map R645-301-728.100a in 1997 Annual Report)  
Raptor Nest Map

**1998 SUBSIDENCE SURVEY LOG**  
**TAGGED SITES**  
 October 1998

TAG NO.	DESCRIPTION	LAT	LONG
1	Sinkhole (4' deep) filled with water	39'52.726"	11'54.631"
2	Sinkhole with surrounding cracks - 8' deep, 12' in diameter	40'01.650"	11'54.159"
3	Sinkhole 4' deep, 5' in diameter	39'43"	11'20"
4	Crack length is 2/3 healed	39'42.616"	11'10.749"
5	Healing - 1" deep, 8" long	39'47"	11'22"
6	Weathered and healing	39'22.445"	11'20.087"
7	Not found	NA	NA
8	Hole created by tree uprooting, not subsidence	38'58"	11'26"
12	Not found	39'39.38"	11'11.19"
13	Crack approximately 1' deep with grasses and forbs growth along and in crack	39'42.539"	11'25.167"
16	Healed	39'46.527"	11'46.804"
17	Healed	39'47.441"	11'48.210"
18	Not found	40'00"	11'50"
19	Sinkhole healing - 12' deep, 2' diameter	39'05.618"	11'46.506"
20	Sinkhole continuing to heal, 5 - 15' deep	39'49"	11'15"
21	Fracture healing, fracture filled periodically	39'47"	11'15"
22	Continuing to heal, vegetated	39'08"	11'48"
23	Sinkhole continues to heal	39'03.614"	11'32.964"
24	Sinkhole continues to be effected by groundwater seepage	39'02.788"	11'14.970"
25	Continuing to heal, 1' deep, ends of crack are weathering	39'35.307"	11'10.981"
26	Crack length continues to fill and vegetate	39'35.794"	11'17.138"
27	Multiple cracks, healing well	39'40.614"	11'24.120"
28	Healed	39'39.304"	11'09.672"
29	Healed	39'42.356"	11'09.083"
30	Healed	39'45"	11'09"

**1998 SUBSIDENCE SURVEY LOG**  
**TAGGED SITES**  
 October 1998

TAG NO.	DESCRIPTION	LAT	LONG
31	No new movement, 3' vegetation established, continues to heal	39'47"	11'09"
32	Healed	39'47.184"	11'25.196"
33	Not found	39'42.539"	11'25.167"
34	Healed	39'39.189"	11'21.319"
35	Crack length is healing	39'44"	11'11"
36	Crack is approximately 2' deep, length is 3/4 healed	39'44"	11'09"
37	Continues to weather. Trees uprooted in area.	39'48"	11'17"
38	Healed	39'49.256"	11'21.361"
39	Crack continuing to heal	39'27.855"	11'22.084"
40	Healed, signs of natural erosion in general area	39'11.679"	11'32.604"
41	Healed	39'03"	12'23"
42	Crack not related to subsidence, .5 " deep	40'01"	11'52"
43	Healed	39'55.119"	11'49.401"
44	Healed	39'52.959"	11'48.144"
45	Not found	39'41"	11'09"
47	Healed	39'40"	11'11.44"
49	Healed	39'48"	11'08"
50	Crack continuing to heal	39'35"	11'15"
51	Healing and revegetating	NA	NA
52	Crack not detected, vegetation growing over crack.	39'38"	11'22"
53	Cracks continuing to heal	39'15"	11'39"
54	Crack continuing to heal	39'40"	11'13"
60	Sinkhole continued to heal	38'51"	11'17"

**1998 SUBSIDENCE SURVEY LOG**  
**NON-TAGGED SITES**  
October 1998

TAG NUMBER	DESCRIPTION	LAT	LONG
A	Crack healing	NA	NA
B	Healing - 1' deep, 50' long	NA	NA
G	Healed	NA	NA
J	Crack not found, believe healed	NA	NA
M	Healed	NA	NA
P	Healed	NA	NA

Latitudes (lat) are at 39 degrees, longitudes (long) are at 111 degrees.

Additional vegetation and healing could be contributed to wet year.

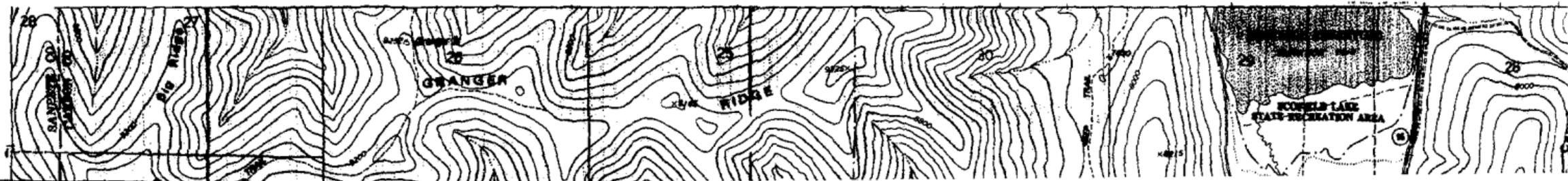
Survey performed by Mark Wayment and John Walters, no new subsidence noted in areas of second mining.

# 1998 Raptor Survey

## Scofield Quad

Scofield\_98.shp

- Buteo
- Redtail Hawk





## **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**

Not Applicable

# APPENDIX D

Mine Maps

as required under R645-301-525.270.

## CONTENTS

White Oak No. 1 Mine  
White Oak No. 2 Mine

# **APPENDIX E**

Other Information

in accordance with the requirements of R645-301 and R645-302.

## **CONTENTS**

Not Applicable