

WHITE OAK MINING AND CONSTRUCTION COMPANY, INC.

**WHITE OAK MINES NO. 1 AND 2
WHITE OAK LOADOUT**

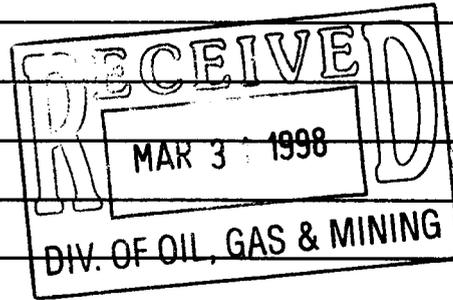
1997 ANNUAL REPORT

ACT/007/001

MARCH 1998

GENERAL INFORMATION

1. Permit Number	ACT 007/001
2. Mine Name	White Oak Mine No. 1 and No. 2
3. Permittee Name	White Oak Mining and Construction Co., Inc.
4. Operator Name (if other than Permittee)	
5. Permit Expiration Date	August 24, 1999
6. Company Representative, Title	Larry G. Jones
7. Phone Number	(435) 637-9200
8. Fax Number	(435) 448-9456
9. Mailing Address	Scofield Route
	Helper, Utah 84526
10. Resident Agent, Title	Vicky S. Bailey
Mailing Address	EarthFax Engineering, Inc.
	7324 South Union Park Avenue, Suite 100
	Midvale, Utah 84047



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	NA
	42-01280	White Oak Mine No.2 & Loadout	NA
2. MSHA Impoundment(s)		None	
3. NPDES/UPDES Permit(s) (water)	UT0022985	Five Discharge Points	4/30/98
4. PSD (Air) Permit(s)	DAQE960-96	Approval Order	NA

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			No spoil placed in snow covered area designated for the pile during 1 st quarter of 1997.
2. Refuse Piles		X		X		
3. Impoundments	X		X			A formal report for the 1 st quarter of 1997 could not be located although the inspector's report references it's existence, therefore sample notes have been included.

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			
3. Vegetation Monitoring Data		X		X		
4. Soils Monitoring Data		X		X		
5. Water Monitoring Data	X				X	
First Quarter Report						No monitoring required 1 st Qtr.
Second Quarter Report	X				X	
Third Quarter Report	X				X	
Fourth Quarter Report	X				X	
6. Geological/Geophysical Data		X		X		
7. Engineering Data		X		X		
8. Other Data						

LEGAL, FINANCIAL, COMPLIANCE AND RELATED INFORMATION

Changes in administration or corporate structure can often bring about necessary changes to information found in the mining and reclamation plan. The Division is requesting that each permittee review and update the legal, financial, compliance and related information in the plan as part of the Annual Report. Provide the Department of Commerce, Annual Report of Officers, or other equivalent information as necessary to ensure that the information provided in the plan is current. Provide any other changes as necessary regarding land ownership, lease acquisitions, legal results from appeals of violations, or other changes as necessary to update information required in the mining and reclamation plan. Include any certified financial statements, audits or worksheets which may be required to meet bonding requirements. Specify whether the information is currently ON FILE with the Division or included as APPENDIX C to this Annual Report.

Legal/Financial Data:	Report Required?		INCLUDED or ON FILE w/DOGM?			Comments
	YES	NO	YES	NO	ON FILE	
1. Department of Commerce, Annual Report of Officers		X		X		
2. Other						

MINE MAPS

Copies of mine maps, current and up-to-date through at least December 31, 1997, are to be provided to the Division as APPENDIX D to this Annual Report in accordance with the requirements of R645-301-525.270. These map copies shall be made in accordance with 30 CFR 75.1200, as required by MSHA. Upon request, mine maps shall be kept confidential by the Division.

Map Number(s)	Map Title / Description	Confidential?
	White Oak #1 Mine - Mine Map	Yes
	White Oak No. 2 Mine - Mine Map	Yes

OTHER INFORMATION

Please provide any comments or further information to be included as part of the Annual Report. Any other attachments are to be provided as APPENDIX E to this Annual Report.

Additional attachments to this report? No Yes

APPENDIX A

Certified Reports

**Excess Spoil Piles
Refuse Piles
Impoundments**

as required under R645-301-514

CONTENTS

**Pond Inspection Forms - 2nd, 3rd, and 4th Quarters
Spoil Disposal Area - 2nd, 3rd, and 4th Quarters**

SPOIL PILE INSPECTION

2ND QUARTER 1997

LOCATION: NORTH OF OFFICE FACILITIES - UPPER PAD AREA

INSPECTION PERFORMED BY JOHN WALTERS/DANNY BLANTON

DBB

STRUCTURE:

Spoil was placed in lifts and compacted as necessary. Vegetation in the area had previously been removed, no new disturbance was necessary. Surface personnel were responsible for placing and compacting materials.

DRAINAGE:

Ditches and drainage areas were open, however additional work would follow this inspection. Underdrain systems appear to have functioned with signs of water movement.

STABILITY:

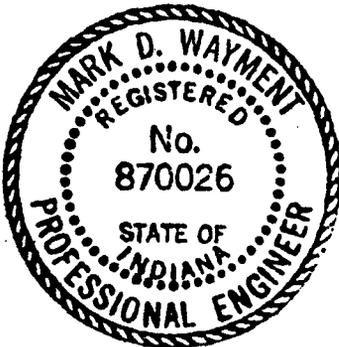
Spoil area was stable showing no signs of weakness or potential for hazards.

Mark D. Wayment
Signature of Certified Engineer

870026
P.E. License No.

IN
State

8/17/97.
Date



**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;

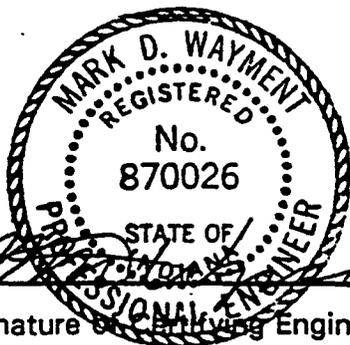
514.222. Placement of underdrains and protective filter systems;

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 8/29/97. The storage area presented no sign of being instable, having structural weaknesses or having any other hazardous condition. A dozer and trackhoe had been used the previous day to compact and shape the area. Ditches around the storage area was cleaned and redefined.



Signature of Mark D. Wayment Professional Engineer

870026

P.E. License No.

IN

State

9/11/97

Date

**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 12/18/97. 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 (18 - 24").



870026

IN

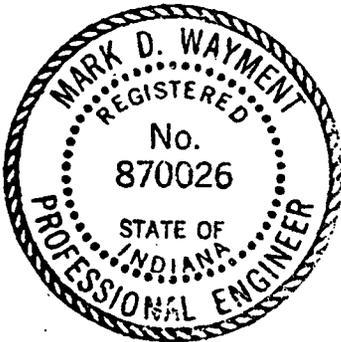
12/18/97

Signature of Certifying Engineer

P.E. License No.

State

Date



White Oak Mining & Construction Co., Inc
Scofield Route
Helper, Utah 84526
(801) 637-9201 FAX (801) 448- 9456

Field Water Sampling & Analysis Request Form

Sample Identification

Date Of Collection

VPDES 2-97

2-12-97

North Leadant Pond 001A

Time

11:52 a.m.

Sampler

Dennis Dyches

Source

-
-
-
-
-

- Pond Effluent
- Spring
- Stream
- Well
- Drinking Water

Weather

Cool-Overcast

Flow Measurement

No discharge

snow

FIELD MEASUREMENTS

pH

Air Temp.

Disolved Oxygen

Water Temp.

Conductivity

LAB ANALYSIS

-
-
-
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-

- Aluminum, Total *
- Arsenic, Total *
- Bicarbonate
- Boron, Total *
- Cadmium, Total *
- Carbonate
- Cation-Anion Balance
- Chloride, Diss. *
- Copper, Total *
- Iron, Total
- Iron, Diss. *

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-
-

- Lead, Total
- Magnesium, Total
- Manganese, Total
- Manganese, Diss. *
- Molybdenum, Total *
- Nitrate *
- Nitrite *
- Nitrogen, Ammonia *
- Oil & Grease *
- Phosphate, Total *

-
-
-
-
-
-
-
-
-
-
-

- Potassium, Total
- Selenium, Total *
- Sodium, Total
- Specific Conductivity
- Sulfate
- Total Dissolved Solids
- Total Hardness *
- Total Settleable Solids
- Total Suspended Solids
- Zinc, Total *

Date Sample Recieved

Date Sample Analized

Time Sample Recieved

White Oak Mining & Construction Co., Inc
Scofield Route
Helper, Utah 84526
(801) 637-9201 FAX (801) 448-9456

Field Water Sampling & Analysis Request Form

Sample Identification

Date Of Collection

UPDES 2-97

2-12-97

Truck Shop Pond 002A

Time

11:35 am

Sampler

Jennis Dyches

Source

-
-
-
-
-

- Pond Effluent
- Spring
- Stream
- Well
- Drinking Water

Weather

Overcast - Cool

Flow Measurement

No discharge.

snow

FIELD MEASUREMENTS

pH

Air Temp.

Dissolved Oxygen

Water Temp.

Conductivity

LAB ANALYSIS

-
-
-
-
-
-
-
-
-
-
-
-
-
-

- Aluminum, Total *
- Arsenic, Total *
- Bicarbonate
- Boron, Total *
- Cadmium, Total *
- Carbonate
- Cation-Anion Balance
- Chloride, Diss. *
- Copper, Total *
- Iron, Total
- Iron, Diss. *

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-
-

- Lead, Total
- Magnesium, Total
- Manganese, Total
- Manganese, Diss. *
- Molybdenum, Total *
- Nitrate *
- Nitrite *
- Nitrogen, Ammonia *
- Oil & Grease *
- Phosphate, Total *

-
-
-
-
-
-
-
-
-
-

- Potassium, Total
- Selenium, Total *
- Sodium, Total
- Specific Conductivity
- Sulfate
- Total Dissolved Solids
- Total Hardness *
- Total Settleable Solids
- Total Suspended Solids
- Zinc, Total *

Date Sample Recieved

Date Sample Analyzed

Time Sample Recieved

White Oak Mining & Construction Co., Inc
Scofield Route
Helper, Utah 84526
(801) 637-9201 FAX (801) 448- 9456

Field Water Sampling & Analysis Request Form

Sample Identification

Date Of Collection

UPDES 2-97

2-12-97

South headout Pond 003A

Time

11:20 am.

Sampler

Dennis Dyches

Source

- Pond Effluent
- Spring
- Stream
- Well
- Drinking Water

Weather

Overcast - Cool

Flow Measurement

No discharge

Water (Ice) level 3' to 4'
below spillway

FIELD MEASUREMENTS

pH

Air Temp.

Dissolved Oxygen

Water Temp.

Conductivity

LAB ANALYSIS

- Aluminum, Total *
- Arsenic, Total *
- Bicarbonate
- Boron, Total *
- Cadmium, Total *
- Carbonate
- Cation-Anion Balance
- Chloride, Diss. *
- Copper, Total *
- Iron, Total
- Iron, Diss. *

- Lead, Total
- Magnesium, Total
- Manganese, Total
- Manganese, Diss. *
- Molybdenum, Total *
- Nitrate *
- Nitrite *
- Nitrogen, Ammonia *
- Oil & Grease *
- Phosphate, Total *

- Potassium, Total
- Selenium, Total *
- Sodium, Total
- Specific Conductivity
- Sulfate
- Total Dissolved Solids
- Total Hardness *
- Total Settleable Solids
- Total Suspended Solids
- Zinc, Total *

Date Sample Recieved

Date Sample Analized

Time Sample Recieved

White Oak Mining & Construction Co., Inc
Scofield Route
Helper, Utah 84526
(801) 637-9201 FAX (801) 448- 9456

Field Water Sampling & Analysis Request Form

Sample Identification

Date Of Collection

UPDES 2-97
Mine sediment Pond 004 A

2-12-97

Time

10:48 am.

Sampler

Dennis Dychas

Source

- Pond Effluent
- Spring
- Stream
- Well
- Drinking Water

Weather

Overcast - Cool

Flow Measurement

No discharge visible.
Discharge point under 3' of
snow

FIELD MEASUREMENTS

pH _____
 Dissolved Oxygen _____
 Conductivity _____

Air Temp. _____
 Water Temp. _____

LAB ANALYSIS

- Aluminum, Total *
- Arsenic, Total *
- Bicarbonate
- Boron, Total *
- Cadmium, Total *
- Carbonate
- Cation-Anion Balance
- Chloride, Diss. *
- Copper, Total *
- Iron, Total
- Iron, Diss. *

- Lead, Total
- Magnesium, Total
- Manganese, Total
- Manganese, Diss. *
- Molybdenum, Total *
- Nitrate *
- Nitrite *
- Nitrogen, Ammonia *
- Oil & Grease *
- Phosphate, Total *

- Potassium, Total
- Selenium, Total *
- Sodium, Total
- Specific Conductivity
- Sulfate
- Total Dissolved Solids
- Total Hardness *
- Total Settleable Solids
- Total Suspended Solids
- Zinc, Total *

Date Sample Recieved _____
 Time Sample Recieved _____

Date Sample Analyzed _____

* - Once At High Flow

White Oak Mining & Construction Co., Inc
Scofield Route
Helper, Utah 84526
(801) 637-9201 FAX (801) 448-9456

Field Water Sampling & Analysis Request Form

Sample Identification

Date Of Collection

UPDES - 2-97

2-12-97

Filter Pond at Mine - 005A

Time

~~2-12-97~~ 10:30 am

Sampler

Dennis Dykes

Source

- Pond Effluent
- Spring
- Stream
- Well
- Drinking Water

Weather

Overcast - cool

Flow Measurement

No discharge
(pond frozen)

FIELD MEASUREMENTS

pH _____

Dissolved Oxygen _____

Conductivity _____

Air Temp. _____

Water Temp. _____

LAB ANALYSIS

- Aluminum, Total *
- Arsenic, Total *
- Bicarbonate
- Boron, Total *
- Cadmium, Total *
- Carbonate
- Cation-Anion Balance
- Chloride, Diss. *
- Copper, Total *
- Iron, Total
- Iron, Diss. *

- Lead, Total
- Magnesium, Total
- Manganese, Total
- Manganese, Diss. *
- Molybdenum, Total *
- Nitrate *
- Nitrite *
- Nitrogen, Ammonia *
- Oil & Grease *
- Phosphate, Total *

- Potassium, Total
- Selenium, Total *
- Sodium, Total
- Specific Conductivity
- Sulfate
- Total Dissolved Solids
- Total Hardness *
- Total Settleable Solids
- Total Suspended Solids
- Zinc, Total *

Date Sample Recieved _____

Time Sample Recieved _____

Date Sample Analyzed _____

* - Once At High Flow

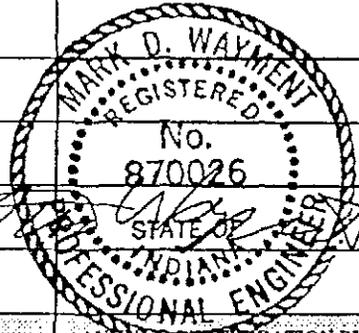
WHITE OAK MINING & CONSTRUCTION COMPANY, INC.

QUARTERLY POND INSPECTION

Quarter: 1st 2nd 3rd 4th

YEAR: 97

POND NO.	EMBANKMENT SEEPAGE	SLOPE MOVEMENT	EROSION		CLOGGING		SPILLWAY CONTINUITY	DEPTH TO SEDIMENT		DATE	CERTIFIED BY	
			INTERIOR	INLET/OUTLET	SPILLWAY	DEWATERING DEVICE		CLEANOUT LEVEL	MEASURED			
001a	No	No	No	No	No clogging	Not clogged		-6.40				
002a	No	No	No	No	No clogging	No clogging Some debris		-7.80				
003a	No	No	No	No	No clogging	No clogging		-5.00				
004a	No	No	Some	Some	No clogging	Some debris		-6.00				
005a**	N/A	N/A	N/A	N/A	N/A	N/A		N/A				
POND NO.	COMMENTS										DATE	ANNUAL CERTIFICATION BY
001a	3' to 4' of water. one abandoned animal burrow. No visible hazards										6/30	
002a	2' to 3' of water. No visible hazards										6/30	
003a	Completely dry. Embankment covered with vegetation. No visible hazards.										6/30	
004a	Replaced oil booms. Some erosion on inlet side caused by clogged culvert. old animal burrows on dam.											
005a**											N/A	N/A



ANNUAL CERTIFICATION BY
P.E. REGISTRATION #

* Measured from Top of Primary Spillway Riser.

** Pond 005A is a Filter Pond.

POND INSPECTION FORM

POND NAME: 001A LOCATION: WHITE OAK LOADOUT

INSPECTOR'S NAME AND AFFILIATION: Vicky Bailey, EarthFax Eng

Storage Level at Time of Inspection: 3 ft, water lower end

Outflow: Outlet: 0 Spillway: 0

Weather: Partly Cloudy 8/29/97

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	[]	[X]	[]	[]	[]
Erosion	[]	[X]	[]	[]	[]
Seepage	[]	[X]	[]	[]	[]
Drains	[]	[X]	[]	[]	[]
Riprap	[]	[X]	[]	[]	[]
Vegetation	[]	[X]	[]	[]	[]
Rodents	[]	[X]	[]	[]	[]
Debris	[]	[X]	[]	[]	[]

Comments and Photographs: SIGN OF WATER MAMMAL (BEAVER?) ACTIVITY ON EAST SIDE OF POND. PATH BETWEEN POND AND CREEK, PATH NEAR SPILLWAY. VEGETATION ESTABLISHED ON ALL SLOPES. WILDLIFE PRINTS IN MUD.

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

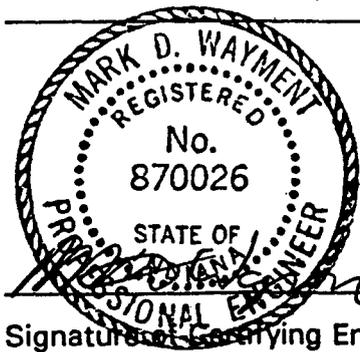
Comments and Photographs: NO SIGN OF CURRENT INFLOW TO POND.

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

Comments and Photographs: _____

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

Comments and Photographs: Vegetation covering bottom of pond
(water plants)



Signature of Mark D. Wayment  Engineering Engineer

870026 IN 9/11/97
P.E. License No. State Date

POND INSPECTION FORM

POND NAME: 002 A LOCATION: WHITE OAK LOAD OUT

INSPECTOR'S NAME AND AFFILIATION: VICKY S. BAILEY, EARTH FAX ENG

Storage Level at Time of Inspection: WATER APPROXIMATELY 4' DEEP

Outflow: Outlet: 0 Spillway: 0

Weather: PARTLY CLOUDY 8/29/97

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	[]	[X]	[]	[]	[]
Erosion	[]	[X]	[]	[]	[]
Seepage	[]	[X]	[]	[]	[]
Drains	[]	[X]	[]	[]	[]
Riprap	[]	[X]	[]	[]	[]
Vegetation	[]	[X]	[]	[]	[]
Rodents	[]	[X]	[]	[]	[]
Debris	[]	[X]	[]	[]	[]

Comments and Photographs: WILDLIFE PRINTS IN MUD. POND 2/3 FULL
NO SIGNS OF RECENT INWARD FLOW. VEGETATION ESTAB :D
ON ALL SLOPES.

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

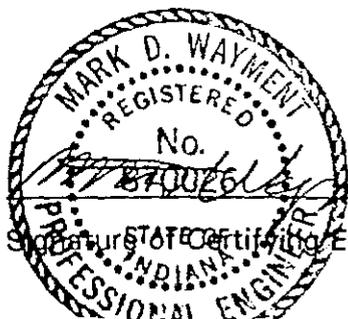
Comments and Photographs: _____

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: _____

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

Comments and Photographs: _____



Signature: *[Handwritten Signature]*
 State Certified Professional Engineer

870026
 P.E. License No.

INDIANA
 IN
 State

9/11/97.
 Date

POND INSPECTION FORM

POND NAME: 003A LOCATION: WHITE OAK LOADOUT

INSPECTOR'S NAME AND AFFILIATION: Vicky Bailey, EarthFax Eng

Storage Level at Time of Inspection: AVAILABLE STORAGE: 100%

Outflow: Outlet: 0 Spillway: 0

Weather: PARTLY CLOUDY 8/29/97

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	[]	[X]	[]	[]	[]
Erosion	[]	[]	[X]	[]	[]
Seepage	[]	[X]	[]	[]	[]
Drains	[]	[X]	[]	[]	[]
Riprap	[]	[X]	[]	[]	[]
Vegetation	[]	[X]	[]	[]	[]
Rodents	[]	[X]	[]	[]	[]
Debris	[]	[X]	[]	[]	[]

Comments and Photographs: EROSION FROM ROAD DRAINAGE, NEEDS REPAIR. PROBLEM NEAR RIPRAPPED INLET.

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

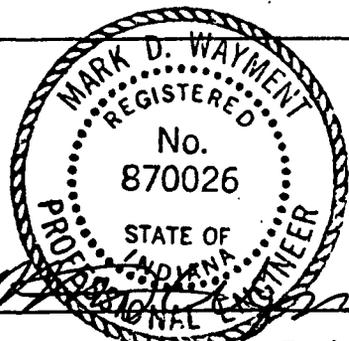
Comments and Photographs: _____

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: _____

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

Comments and Photographs: SHOWS SIGNS OF EVAPORATION.
POND HAS CONTAINED WATER RECENTLY.



Mark D. Wayment 870026 IN 9/14/97
 Signature of Certifying Engineer P.E. License No. State Date

POND INSPECTION FORM

POND NAME: 004 A LOCATION: White Oak Mine

INSPECTOR'S NAME AND AFFILIATION: Vicky Bailey, Earth FAX Eng

Storage Level at Time of Inspection: AVAILABLE STORAGE < 1 FOOT

Outflow: Outlet: 0 Spillway: 0

Weather: PARTLY CLOUDY 8/29/97

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: SURFACE PERSONNEL REWORKING INLET EMBANKMENT
SIGNS OF RILLS AND SEEPAGE FROM UNMELTED SNOW (1996/1997 WINTER)
EROSION AT SOUTHEAST CORNER OF POND, REPAIR ATTEMPTED
BUT MISDIRECTED DRAINAGE ALONG POND ACCESS ROAD CONTINUES
INLET RIPRAPPED, PIPE REPLACED, DITCHES + INLETS CLEANED.

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"/>	[]	[]	[]

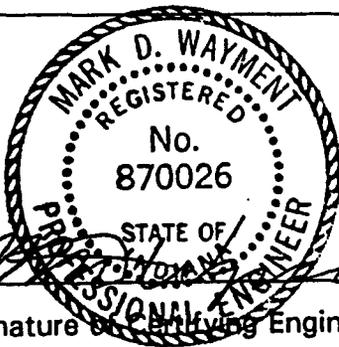
Comments and Photographs: _____

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

Comments and Photographs: _____

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

Comments and Photographs: WATER AND SEDIMENT NEEDS TO BE
REMOVED FROM POND. DREDGING SCHEDULED FOR SEPTEMBER



[Signature]
 Signature of Professional Engineer

870026
 P.E. License No.

IN
 State

9/11/97
 Date

POND INSPECTION FORM

POND NAME: 005A LOCATION: White Oak Mine

INSPECTOR'S NAME AND AFFILIATION: Vicky Bailey, EarthFax Eng

Storage Level at Time of Inspection: NOT IN USE

Outflow: _____ Outlet: _____ Spillway: _____

Weather: PARTLY CLOUDY 8/29/97

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	[]	[]	[]	[]	[]

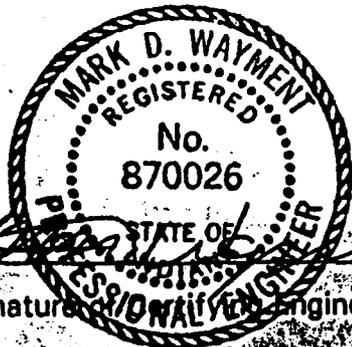
Comments and Photographs: _____

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



Signature: [Handwritten Signature] P.E. License No. 870026 State IN Date 8/7/11

POND INSPECTION FORM

POND NAME: 001 LOCATION: WHITE OAK LOADOUT

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

Storage Level at Time of Inspection: 13' AVAILABLE CAPACITY

Outflow: Outlet: 0 Spillway: 0

Weather: CLOUDY - SNOW

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	[]	[X]	[]	[]	[]
Erosion	[]	[X]	[]	[]	[]
Seepage	[]	[X]	[]	[]	[]
Drains	[]	[X]	[]	[]	[]
Riprap	[]	[X]	[]	[]	[]
Vegetation	[]	[X]	[]	[]	[]
Rodents	[]	[X]	[]	[]	[]
Debris	[]	[X]	[]	[]	[]

Comments and Photographs: EVIDENCE OF USE OF POND BY WILDLIFE (DEER, CAT RABBITS), POND FROZEN

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

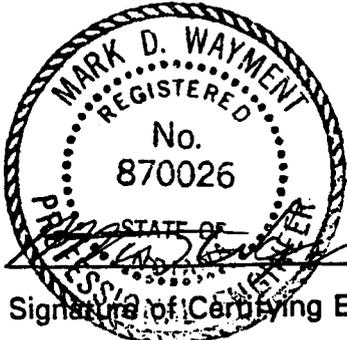
Comments and Photographs: _____

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

Comments and Photographs: _____

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

Comments and Photographs: _____



Signature of Carrying Engineer: [Signature] P.E. License No. 870026 State IN Date 12/18/97

POND INSPECTION FORM

POND NAME: 002 LOCATION: White Ore LOADOUT

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

Storage Level at Time of Inspection: 6' 7" CAPACITY AVAILABLE

Outflow: Outlet: 0 Spillway: 0

Weather: CLOUDY - SNOW

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	[]	[X]	[]	[]	[]
Erosion	[]	[X]	[]	[]	[]
Seepage	[]	[X]	[]	[]	[]
Drains	[]	[X]	[]	[]	[]
Riprap	[]	[X]	[]	[]	[]
Vegetation	[]	[X]	[]	[]	[]
Rodents	[]	[X]	[]	[]	[]
Debris	[]	[X]	[]	[]	[]

Comments and Photographs: POND SNOW COVERED AND FROZEN

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

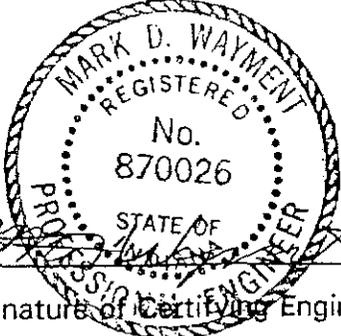
Comments and Photographs: _____

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

Comments and Photographs: _____

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

Comments and Photographs: _____



 Signature of Certifying Engineer

870026 IN 12/18/97
 P.E. License No. State Date

POND INSPECTION FORM

POND NAME: 003 LOCATION: WHITE OAK LOADOUT

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

Storage Level at Time of Inspection: EMPTY

Outflow: Outlet: 0 Spillway: 0

Weather: CLOUDY - SNOW

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	[]	[X]	[]	[]	[]
Erosion	[]	[]	[X]	[]	[]
Seepage	[]	[X]	[]	[]	[]
Drains	[]	[X]	[]	[]	[]
Riprap	[]	[X]	[]	[]	[]
Vegetation	[]	[X]	[]	[]	[]
Rodents	[]	[X]	[]	[]	[]
Debris	[]	[X]	[]	[]	[]

Comments and Photographs: SOUTH INSIDE WALL OF EMBANKMENT SHOULD BE WORKED WITH DOZER OR LDOE. SOME RILLING.

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

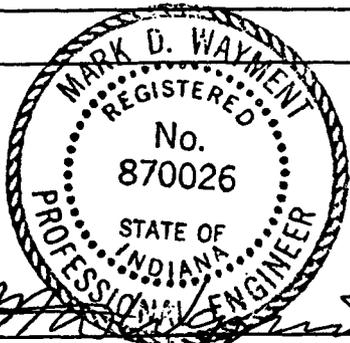
Comments and Photographs: _____

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

Comments and Photographs: _____

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

Comments and Photographs: _____



Mark D. Wayment
Signature of Certifying Engineer

870026
P.E. License No.

IN
State

12/18/97
Date

POND INSPECTION FORM

POND NAME: 004 LOCATION: WHITE OAK MINE

INSPECTOR'S NAME AND AFFILIATION: VICTOR S BAILEY - CONSULTANT

Storage Level at Time of Inspection: 5' 2" STORAGE AVAILABLE

Outflow: Outlet: 0 Spillway: 0

Weather: CLOUD - SNOW

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	[]	[X]	[]	[]	[]
Erosion	[]	[]	[X]	[]	[]
Seepage	[]	[X]	[]	[]	[]
Drains	[]	[X]	[]	[]	[]
Riprap	[]	[X]	[]	[]	[]
Vegetation	[]	[X]	[]	[]	[]
Rodents	[]	[X]	[]	[]	[]
Debris	[]	[X]	[]	[]	[]

Comments and Photographs: SNOW COVERED, POND FROZEN, SOME RILLING ON WEST SLOPE

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

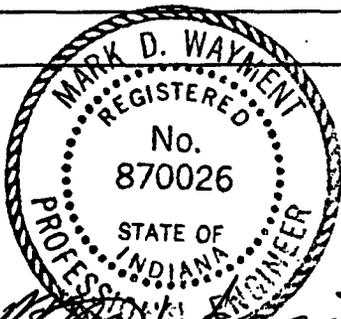
Comments and Photographs: SPILLWAY REWORKED WITH HOE.

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

Comments and Photographs: SPILLWAY REWORKED WITH LEE

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

Comments and Photographs: POND STILL NEEDS TO HAVE
SEDIMENT REMOVED



[Signature]
Signature of Certifying Engineer

870026
P.E. License No.

IN
State

12/18/97
Date

POND INSPECTION FORM

POND NAME: 005 LOCATION: White Oak Mine

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

Storage Level at Time of Inspection: EMPTY - NOT IN USE

Outflow: Outlet: 0 Spillway: 0

Weather: CLOUDY - SNOW

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	[]	[]	[]	[]	[]

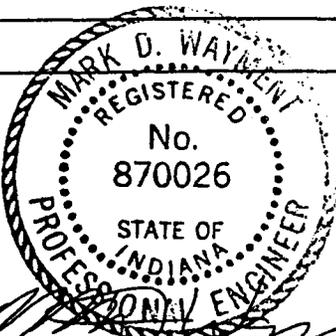
Comments and Photographs: _____

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



[Handwritten Signature]
 Signature of Certifying Engineer

870026
 P.E. License No.

IN
 State

12/18/97.
 Date

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 Survey
Subsidence Base Map**

1997 SUBSIDENCE SURVEY LOG
TAGGED SITES
September 23, 1997

TAG NO.	DESCRIPTION	LAT	LONG
1	Sinkhole filled with water (4' deep)	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 ½ 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	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 weather	39'35.794"	11'17.138"
27	Multiple cracks, healing well	39'40.614"	11'24.120"
28	Crack not found, believe healed	39'39.304"	11'09.672"
29	Crack not found, believe healed	39'42.356"	11'09.083"
30	Healed	39'45"	11'09"

APPENDIX D

Mine Maps

as required under R645-301-525.270.

CONTENTS

White Oak #1 Mine - Mine Map
White Oak No. 2 Mine - Mine Map

**WHITE OAK MINING &
CONSTRUCTION CO. INC.**

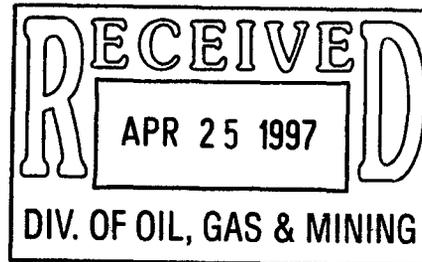
1996 Pond Certification

Sediment Ponds 001A,
002A, 003A, and 004A

August 1996

Mine # C/007/0001
File Incoming
Record # _____
Doc. Date 4-22-97
Recd. Date 4-25-97

**HANSEN
ALLEN
& LUCE INC**
SALT LAKE CITY, UTAH



Mr. Mark Wayment
White Oak Mining & Construction Co., Inc.
Scofield Route
Helper, Utah 84526

August 29, 1997

Re: 1996 Pond Certification

Dear Mr. Wayment:

On August 21, 1996 a site investigation and Pond Certification was performed by Hansen, Allen & Luce, Inc. for Sediment Ponds 001A, 002A, 003A, and 004A which are located within the White Oak permit boundary. The purpose of our site investigation was to evaluate the current condition of each of the four existing sediment ponds in terms of embankment and/or channel erosion, integrity of the pond outlets and emergency spillways, and their overall hydraulic condition. We provide the following comments regarding our field observation:

POND 001A

Observations

Pond 001A was not discharging at the time of our observation, as the water level within the pond was approximately 9-feet below the intake to the pond outlet pipes. A visual observation was conducted on both the interior and exterior portions of the pond. One animal burrow was identified near the inside top of the southwest corner of the pond. It appears that this burrow is no longer actively being used. In addition to this burrow, 10 animal burrows were located along the north and west exterior slopes of the pond. Observation of the animal burrows was difficult due to heavy vegetative cover on the exterior and interior side slopes of the pond. As the pond is mostly excavated, it is anticipated that the majority of the burrows would not adversely affect pond performance. However, it is recommended that the mine conduct periodic inspections to monitor the number of, and condition of burrows. Based upon tracks observed at the pond, it is apparent that the pond is also used by livestock and wildlife as a source of water. This use of the pond does not appear to have adversely affected pond performance.

No inflow into Pond 001A was observed at the time of our visit. Coal fines have accumulated near the inlet to the pond. It is assumed that these fines have washed into the pond during moderate regional storms. It is our understanding that White Oak plans to survey the interior of Pond 001A to determine the storage capacity of the pond. Eutrophic conditions were also observed within the pond water, with a moderate to heavy algal bloom present.

Mr. Mark Wayment
April 8, 1997
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The outlet works were also observed and found to be capable of performing as intended. Eight photographs were taken of Pond 001A at the time of our visit, and are hereby submitted for use by White Oak. The photographs taken and included herein show the following features:

Photo #1	View South Towards the Inlet to Pond 001A
Photo #2	View Northwest Towards the Pond Outlet
Photo #3	View North Towards the Pond Inlet Riprap Protection
Photo #4	View South of Pond Inlet and Coal Deposition
Photo #5	Outlet Discharge Pipes
Photo #6	Panoramic View South to North (1 of 3)
Photo #7	Panoramic View South to North (2 of 3)
Photo #8	Panoramic View South to North (3 of 3)

Recommendations

It is recommended that the animal burrows be located and filled in the embankment slopes to protect against "piping", and that periodic inspections be performed to monitor animal burrowing activity.

POND 002A

Observations

Pond 002A was not discharging at the time of our observation. The water level within the pond was observed to be approximately 4 ½-feet below the intake to the pond outlet pipes. A visual observation was conducted on both the interior and exterior portions of the pond. Seven animal burrows were identified along the interior west embankment. These burrows are located within the upper 5-foot portion of the bank. Two additional animal burrows were also identified on the exterior west slope. As with the other ponds, observation of the animal burrows was made more difficult due to heavy vegetative cover on the exterior and interior side slopes of the pond. As the pond is mostly excavated, it is anticipated that the majority of the burrows would not adversely affect pond performance. However, it is recommended that the mine conduct periodic inspections to monitor the number of and condition of burrows. Based upon tracks observed at the pond, it is apparent that this pond is also used by livestock and wildlife as a source of water. This use of the pond does not appear to have adversely affected pond performance.

No inflow into Pond 002A was observed at the time of our visit. It was observed that the mine has placed backfill around the eastern inlet pipe into Pond 002A, and has grouted a rock inlet structure to the pipe since the time of our last pond certification. The fill adjacent to the pipe appears to have not been well compacted, which may result in erosion during storm events. However, due to the fact that the east slope of pond 002A is a cut slope, erosion around the inlet pipe will not lead to pond failure. Coal fines were observed to have accumulated near both of the inlets to the pond. It is assumed that these fines have washed into the pond during moderate regional storms. It is our understanding that the mine plans to survey the interior of Pond 002A to determine the storage capacity.

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The outlet works were also observed and found to be capable of performing as intended. Photographs 9 thru 13 were taken of Pond 002A at the time of our visit, and are hereby submitted for use by White Oak. The photographs taken and included herein show the following features:

Photo #9	View South Towards the South Inlet to Pond 002A
Photo #10	View Northwest Towards the Pond Outlet Structures
Photo #11	View East Towards the East Inlet
Photo #12	View of the South Pond Inlet and Coal Deposition
Photo #13	Headwall constructed at Rock Headwall constructed at East Inlet

Recommendations

It is recommended that the animal burrows be located and filled in the embankment slopes to protect against "piping" and that periodic inspections be performed to monitor animal burrowing activity. It is also recommended that the mine monitor performance of the backfill around the east pipe and make repairs as needed.

POND 003A

Observations

Pond 003A was observed to be dry at the time of our observation. A visual observation was conducted on both the interior and exterior portions of the pond. Four animal burrows were identified on the lower 1/2 of the west exterior embankment. An additional animal burrow was also identified near the top of the western embankment, on the inside of the pond.

The outlet works were also observed and found to be capable of performing as intended. Based upon the findings of a survey performed by White Oak for Pond 003A (see copy of attached letter to Mr. Ken Wyatt, Utah Division of Oil Gas and Mining, dated August 6, 1996) it is our understanding that the current capacity of Pond 003A meets the minimum design storage volume requirements.

Photographs 14 thru 19 were taken of Pond 003A at the time of our visit, and are hereby submitted for use by White Oak. The photographs taken and included herein show the following features:

Photo #14	Panoramic View South to North (1 of 3)
Photo #15	Panoramic View South to North (2 of 3)
Photo #16	Panoramic View South to North (3 of 3)
Photo #17	View North along West Interior Embankment
Photo #18	View North of Northern Embankment
Photo #20	Outlet Discharge Pipes

Recommendations

It is recommended that the animal burrows be located and filled in the embankment slopes to protect against "piping" and that periodic inspections be performed to monitor animal burrowing activity.

POND 004A

Observations

Pond 004A was discharging at the time of our observation, with inflow observed entering the pond from the south pond inlet. The source of inflow was reported to be mine water. A visual observation was conducted on both the visible portions of the interior and exterior portions of the pond. One animal burrow was identified top exterior portion of the northern embankment. The entrance to this burrow was plugged with rocks by mine personnel at the time of our field visit. The small erosion channel noted at the time of our last observation (9/95) was observed and found to be stable, with no apparent additional significant erosion having occurred. Vegetation has also begun to grow in the bottom of the erosion channel. The downstream toe rock appears to be in good condition, and the exterior dam slope is well vegetated. The mancos shale channel rocks continue to show signs of surface weathering. Although not a problem at this time, the condition of the channel rocks should be monitored over time.

The primary spillway, emergency spillway, and downstream channel were also observed, and found to be in generally good condition. One of the straw bales located near the emergency spillway was found to be coated with an oil product. In addition, absorbing pads had been placed within the pond by the mine to absorb free oil products. It is our understanding that White Oak intends to replace the oil contaminated straw bale, and to remove the used oil pads from the pond.

Oil skimmers were observed to have been placed around the primary inlet pipes for the purpose of absorbing oil products accidentally discharged into the pond. The skimmers appeared to be in generally good condition.

Coal fines were observed to have accumulated near the inlet to the pond. It would appear that these fines have washed into the pond during moderate regional storms and/or from mine water discharge. It is our understanding that White Oak intends to remove sediment from Pond 004A within the next few weeks. The outlet works were also observed and found to be capable of performing as intended. Photographs 20 thru 29 were taken of Pond 004A at the time of our visit, and are hereby submitted for use by White Oak. The photographs taken and included herein show the following features:

- | | |
|-----------|---|
| Photo #20 | Panoramic View From the Northeast Corner, South to North (1 of 3) |
| Photo #21 | Panoramic View From the Northeast Corner, South to North (2 of 3) |
| Photo #22 | Panoramic View From the Northeast Corner, South to North (3 of 3) |
| Photo #23 | View Towards the Pond Outlet Riser |
| Photo #24 | View of the South Pond Inlet and Deposition of Fines |
| Photo #25 | Emergency Spillway Looking Upstream with Deterioration of Straw Bales |

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Photo #26	View across North Exterior Embankment
Photo #27	View South of Erosion Channel Near Outfall of Bypass Culvert Outfall
Photo #28	View South of Erosion Channel Near Outfall of Bypass Culvert Outfall
Photo #29	View Looking Upstream at Emergency Spillway Channel

Recommendations

It is recommended that the animal burrow located in the north embankment slope be filled to protect against "piping", and that periodic inspections be performed to monitor animal burrowing activity. It is also recommended that the small erosion channel on the exterior slope be repaired and monitored.

In general, our evaluation of the condition of the four sediment ponds indicates that they are in relatively good condition. Although specific recommendations are noted above, no conditions were identified at this time which would suggest that the ponds are incapable of performing as intended. However, in order to minimize future adverse effects, it is our recommendation that White Oak proceed with the minor repairs which include filling of animal burrows and the repair of erosion channels on each of the four ponds. In addition, White Oak should proceed with their plans to verify the volume capacity of each of the ponds (with the exception of Pond 3, as noted above) and remove sediment as required.

We appreciate the opportunity of working with you on this important project. Please call if you have any questions, or if we can be of further assistance.

Sincerely,

HANSEN, ALLEN & LUCE, INC.


Paul G. Hansen, P.E.
Associate

Pond Survey Photographs

WHITE OAK MINING & CONSTRUCTION CO., INC.

SCOFIELD ROUTE
HELPER, UTAH 84526
(801) 637-9200
Fax: (801) 443-8456

August 6, 1996

Mr. Ken Wyatt
Utah Division of Oil Gas, and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Re: NOV N96-7-1-1,
Pond Survey

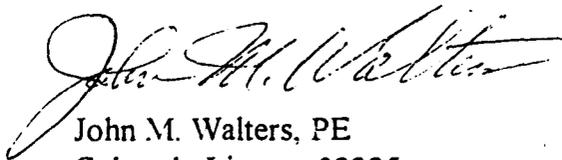
Dear Mr. Wyatt;

As required in the abatement provisions of NOV N96-7-1-1 a survey of Pond 003 at the loadout has been completed. This survey, like the previous, has shown that there is adequate storage volume in the pond. The volume of the pond after repairing the leak and cleaning out some material is now 57,419 ft³ (1.3 acre-feet). Attached is an AutoCAD drawing and volume calculation for the pond. The elevation of the primary spillway is denoted by the green line. The volume of the pond was calculated for elevations below the primary spillway.

Appendix 742.221a of the MRP indicates that the pond should have a liquid volume of 0.67 acre feet. Sediment storage volume for three years is 0.51 acre-feet. The current volume of 1.3 acre-feet exceeds the required minimum volume of 1.18 acre-feet.; therefore the volume of the pond is adequate.

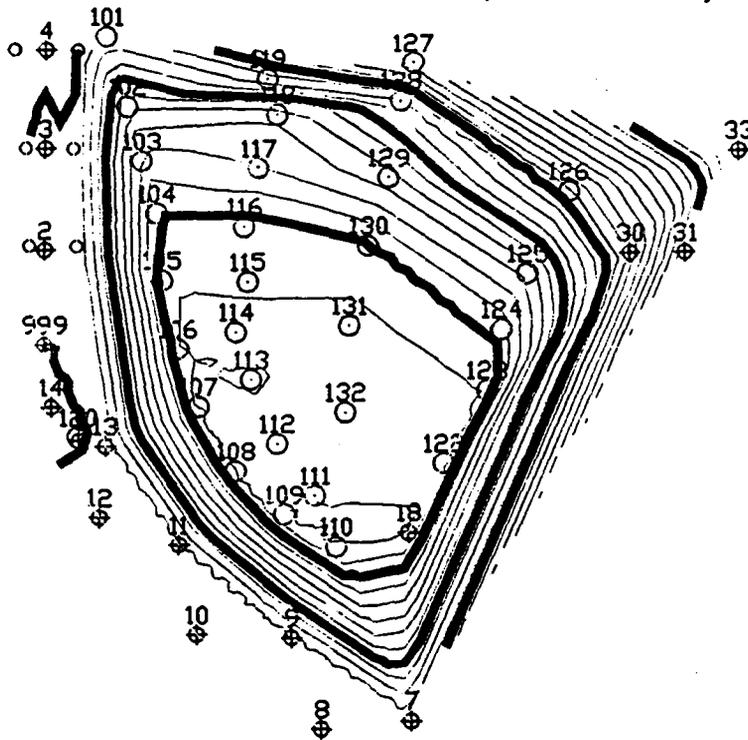
Please contact me if you have questions or if additional information is needed.

Sincerely,



John M. Walters, PE
Colorado License 22325

Volume report
 Comparing GRID file: C:\GH\SURFACE\003APOND\POSTDRED\003A_PST.GRD
 Plane elevation: -4.01
 Lower left grid corner: -11.42,-101.52
 Upper right grid corner: 302.40,86.25
 X grid resolution: 83, Y grid resolution: 50
 X grid cell size: 3.78, Y grid cell size: 3.76
 Total inclusion area: 11508.02 sq ft, 0.264 acres
 Cut to Fill ratio: 0.00
 Cut (C.Y) / Area (acres): 0.05
 Fill (C.Y) / Area (acres): 2049.79
 Cut volume is 0.36 cubic ft, 0.01 cubic yards
 Fill volume is 57419.70 cubic ft, 2126.66 cubic yards



LEGEND

- SURVEY POINT
- CONTOUR (1')
- CONTOUR (10')
- PRIMARY SPILLWAY ELEV.
- BARRIER LINE

**WHITE OAK MINING
AND CONSTRUCTION COMPANY**

P.O. BOX 60 HELPER, UTAH 84526

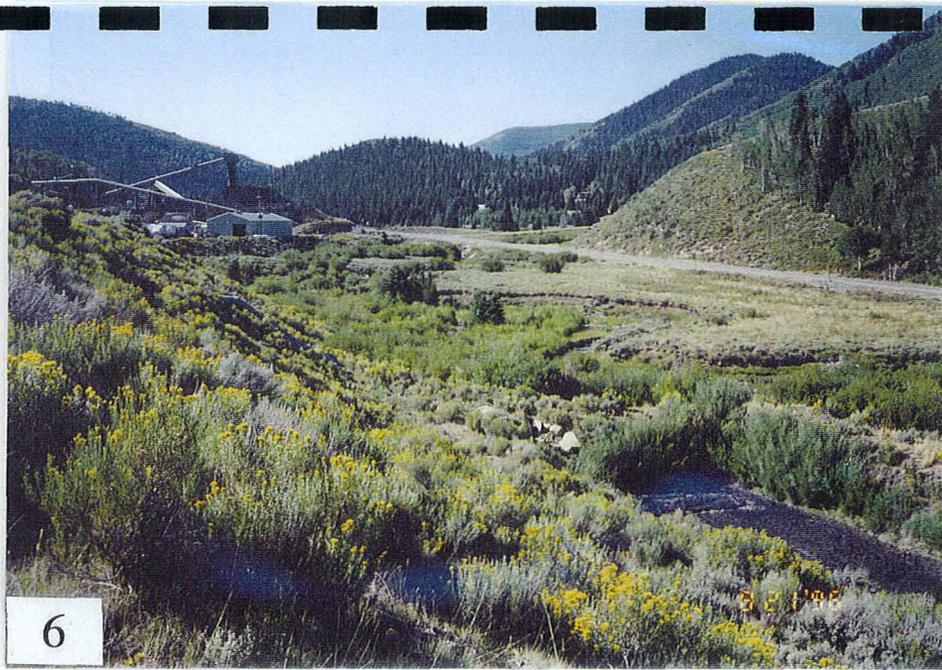
TITLE 003A Sediment Pond (post dredge)			
SIZE A	DRAWN BY WOMCCI Eng.	DWG NO. C:\GH\SURFACE\003APOND\003A_PRE.DWG	REV -
Scale 1"=50'	Date Aug. 6, 1996	Sheet 1 OF 1	





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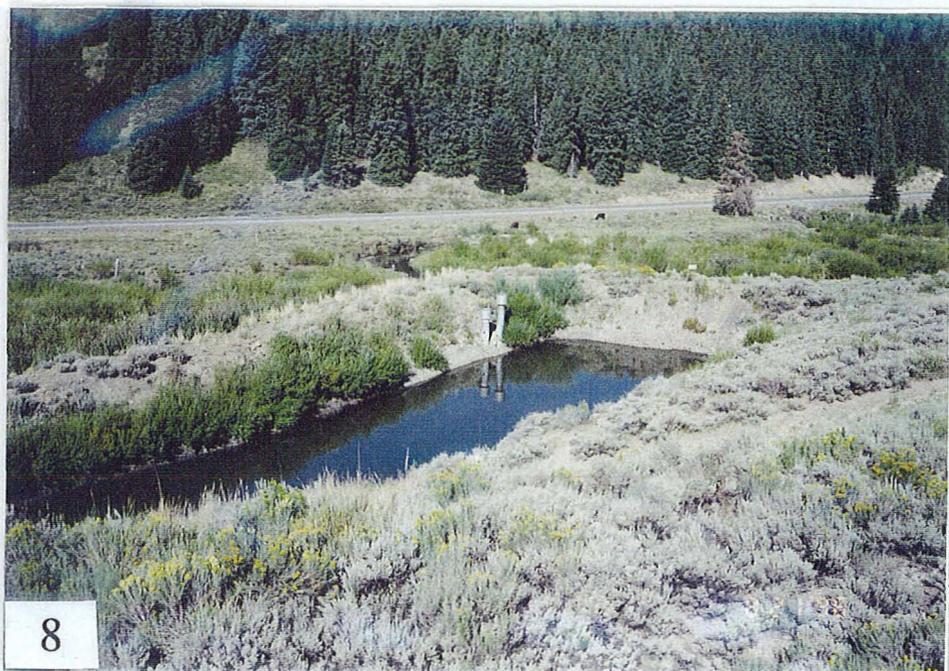
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