#### Shaw Environmental & Infrastructure, Inc.

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# Shaw Environmental & Infrastructure, Inc.

March 31, 2003

Ms. Sharon Mills Project Officer Pennsylvania Department of Environmental Protection Southeast Regional Office Lee Park, Suite 6010 Conshohocken, PA 17110

RE: Submittal of HRS Scoring Materials

Bo-Rit Asbestos Site

Dear Ms. Mills:

Please find enclosed the Hazard Ranking System (HRS) scoring sheets and results for the above -referenced site. The enclosed materials are print-outs from the USEPA software program PA-Score 2.1, which was the tool used to assemble the site information and calculate the HRS score. PA-Score program was approved for use in 1995. The following items are enclosed:

- the summary table from the PA-Score program showing the total site score and the scores for each of the exposure pathway components;
- the "PA Scoresheets" report from the PA-Score program showing the data entry details;
- a 3.5-inch diskette containing the PA-Score program and data files for the Bo-Rit site.

Please note copies of the enclosed are also being sent to Mr. George Horvat.

As shown in the enclosed summary table, the total site score calculated for the Site was 82. For comparison purposes, a HRS score of 28.5 is generally used by USEPA to screen sites for further evaluation as possible candidates for the National Priorities List (NPL).

Shaw E & I appreciates the opportunity to be of service to the Pennsylvania DEP at the Bo-Rit Asbestos Site. If you would like to discuss the enclosed in more detail, or if we can be of additional service, please call me at 856 482-4807.

Respectfully,

Mark Tucker
Project Manager

Enclosures

cc: George Horvat – PADEP

IT Project File 841831

○ Select 5:\PADEP\841831~1	841831~1\PASCORE\PASCORE.EXE	RE-EXE		
				85%
	PA-S	PA-Score Version 2.1	2.1	
Pathway	Likelihood of Release	Targets	Waste Characteristics	Pathway Score
Ground Water	500	86	1.96	59
Surface Water Drinking Water Human Pood Chain Environmental	558 558 558	57 300 300	1 88 1 88 1 88	100 38 100 60
Soil Exposure Resident Nearby	550	96 1	199	61 60 1
Air	550	5192	100	108

OMB Approval Number: 2050-0095 Approved for Use Through: 4/95



Site Name: Bo-Rit Asbestos Site

CERCLIS ID No.: 1003006437

Street Address: 6 Maple Street

City/State/Zip: Ambler , PA 19002

Investigator: Mark Tucker Agency/Organization: Shaw E & I

Street Address: 3 Executive Campus City/State: Cherry Hill, NJ

Date: 3/28/03

# Bo-Rit Asbestos Site - 03/28/103

#### WASTE CHARACTERISTICS

Waste Characteristics (WC) Calculations: Pile Ref: 4 WO value maximum 1 Waste Pile

1.50E+05 cu yds 6.00E+04 6.00E+04 Volume

Area 3.00E+00 acres 1.03E+04

Ground Water Pathway Criteria List Suspected Release	
Are sources poorly contained? (y/n/u)	Y
Is the source a type likely to contribute to ground water contamination (e.g., wet lagoon)? $(y/n/u)$	N
Is waste quantity particularly large? (y/n/u)	Y
Is precipitation heavy? (y/n/u)	N
Is the infiltration rate high? (y/n/u)	N
Is the site located in an area of karst terrain? (y/n)	N
Is the subsurface highly permeable or conductive? (y/n/u)	U
Is drinking water drawn from a shallow aquifer? (y/n/u)	Y
Are suspected contaminants highly mobile in ground water? (y/n/u)	N
Does analytical or circumstantial evidence suggest ground water contamination? (y/n/u)	N
Other criteria? (y/n) N	
SUSPECTED RELEASE? (y/n)	N
Summarize the rationale for Suspected Release:	

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### Ground Water Pathway Criteria List Primary Targets

Is any drinking water well nearby? (y/n/u)

Has any nearby drinking water well been closed? (y/n/u)

Has any nearby drinking water well user reported foul-testing or foul-smelling water? (y/n/u)

Does any nearby well have a large drawdown/high production rate? (y/n/u)

Is any drinking water well located between the site and other wells that are suspected to be exposed to a hazardous substance? (y/n/u)

Does analytical or circumstantial evidence suggest contamination at a drinking water well? (y/n/u)

Does any drinking water well warrant sampling? (y/n/u)

Other criteria? (y/n)

PRIMARY TARGET(S) IDENTIFIED? (y/n)

Summarize the rationale for Primary Targets:

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GROUND WATER PATH	HWAY SCORESHEE	rs			
Pathway Characteristics				Ref.	
Do you suspect a release? (y/n)	No	Ç			
Is the site located in karst to	errain? (y/n)	No	ာ	1	
Depth to aquifer (feet):					
Distance to the nearest drinking	ng water well	(feet): 6	60	1	
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	Refe	rences	
1. SUSPECTED RELEASE	0				
2. NO SUSPECTED RELEASE		500			
LR =	0	500			
Targets					
TARGETS	Suspected Release	No Suspected Release	Refe	rences	
3. PRIMARY TARGET POPULATION 0 person(s)	0		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
4. SECONDARY TARGET POPULATION Are any wells part of a blended system? (y/n) N	0	73			
		1	1 :::::::::		

WASTE CHARACTERISTICS

7. RESOURCES

5. NEAREST WELL

6. WELLHEAD PROTECTION AREA

None within 4 Miles

WC =0 100

0

0

0

0

T =

20

0

5

98

GROUND WATER PATHWAY SCORE:

59

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Ground Water Target Populations

Primary Target Population Drinking Water Well ID	Dist. (miles)	Population Served	Reference	Value
None				
*** Note : Maximum of 5 Wel	ls Are Pi		Total	

Secondary Target Population Distance Categories	Population Served	Reference	Value
0 to 1/4 mile	11	1	2
Greater than 1/4 to 1/2 mile	8	1	1
Greater than 1/2 to 1 mile	65	1	2
Greater than 1 to 2 miles	0	11	0
Greater than 2 to 3 miles	5700	10	68
Greater than 3 to 4 miles	0	11	0
		Total	73

Apportionment Docum	mentation for a Blende	ed System	
			· '

Surface Water Pathway Criteria List Suspected Release	
Is surface water nearby? (y/n/u)	Y
Is waste quantity particularly large? (y/n/u)	Y
Is the drainage area large? (y/n/u)	Y
Is rainfall heavy? (y/n/u)	N
Is the infiltration rate low? (y/n/u)	Y
Are sources poorly contained or prone to runoff or flooding? (y/n/u)	Y
Is a runoff route well defined(e.g.ditch/channel to surf.water)? (y/n/u)	Y
Is vegetation stressed along the probable runoff path? (y/n/u)	Y
Are sediments or water unnaturally discolored? (y/n/u)	U
Is wildlife unnaturally absent? (y/n/u)	U
Has deposition of waste into surface water been observed? (y/n/u)	Y
Is ground water discharge to surface water likely? (y/n/u)	Y
Does analytical/circumstantial evidence suggest S.W. contam? (y/n/u)	Y
Other criteria? (y/n) N	
SUSPECTED RELEASE? (y/n)	Y
Summarize the rationale for Suspected Release:	

PA/SI analytical results indicate aqueous and sediment contamination in Wissahickon Creek and the tributary to Wissahickon Creek in the eastern part of the site.

Surface Water Pathway Criteria List Primary Targets	
Is any target nearby? (y/n/u) If yes:  N Drinking water intake Y Fishery Y Sensitive environment	Y
Has any intake, fishery, or recreational area been closed? (y/n/u)	N
Does analytical or circumstantial evidence suggest surface water contamination at or downstream of a target? (y/n/u)	Y
Does any target warrant sampling? (y/n/u) If yes: U Drinking water intake U Fishery U Sensitive environment	N
Other criteria? (y/n) N	
PRIMARY INTAKE(S) IDENTIFIED? (y/n)  Summarize the rationale for Primary Intakes:  continued	N

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continued -----Other criteria? (y/n) N PRIMARY FISHERY (IES) IDENTIFIED? (y/n) Summarize the rationale for Primary Fisheries: Wissahickon Creek is a sport-fishing fishery. Trout populations in Wissahickon Creek are maintained by the Pennsylvania Fish Commission. Other criteria? (y/n) PRIMARY SENSITIVE ENVIRONMENT(S) IDENTIFIED? (y/n) Y Summarize the rationale for Primary Sensitive Environments: The Wissahickon Valley was placed on the National Registry of Natural Landmarks in 1964, one of the first sites in the nation to be so designated. The designation encourages the preservation of the

est remaining examples of the major biotic communities and geologic

preserves the widest riparian zone in the city of Philadelphia. In spite of this special status, the Wissahickon Valley is now on the Registry's list of damaged and threatened natural landmark sites.

features of the nation's natural landscape. Wissahickon Park

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### SURFACE WATER PATHWAY SCORESHEETS

Pathway Characteristics						
Do you suspect a release? (y/n) Yes						
Distance to surface water (feet):						
Flood frequency (years): 1-10						
What is the downstream distance (miles) to:  a. the nearest drinking water intake?  b. the nearest fishery?  c. the nearest sensitive environment?  0.0						
Suspected No Suspected LIKELIHOOD OF RELEASE Release Release Reference						
1. SUSPECTED RELEASE 550						
2. NO SUSPECTED RELEASE		0		4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
L₁R ≔	550	0				

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Drinking Water Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
3. Determine the water body type, flow (if applicable), and number of people served by each drinking water intake.			
4. PRIMARY TARGET POPULATION 0 person(s)	0		
5. SECONDARY TARGET POPULATION Are any intakes part of a blended system? (y/n): N	52	0	
6. NEAREST INTAKE	0	0	
7. RESOURCES	5	0	
T =	57	0	

Drinking Water Threat Target Populations

Intake Name	Primary (y/n)	Water Body Type/Flow	Population Served	Ref.	Value
1 Philadelphia	N	>1000-10000 cfs	640000	8	0
				v=	

Total Primary Target Population Value
Total Secondary Target Population Value
\*\*\* Note : Maximum of 6 Intakes Are Printed \*\*\*

0 52

Apportionment	Documentation	for a Bl	lended	System	

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Human Food Chain Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
8. Determine the water body type and flow for each fishery within the target limit.			
9. PRIMARY FISHERIES	300		
10. SECONDARY FISHERIES	0	0	1814814814747777
Т =	300	0	

### Human Food Chain Threat Targets

Fishery Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 Wissahickon Creek	Y	primary fishery	9	300
2 Schulykill River	N	>1000-10000 cfs	9	12
3 Delaware River	N	>10000 cfs	9	12
None				
Total Primary Fisheries Value Total Secondary Fisheries Value			300 0	

\*\*\* Note : Maximum of 6 Fisheries Are Printed \*\*\*

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300

### Environmental Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
11. Determine the water body type and flow (if applicable) for each sensitive environment.			
12. PRIMARY SENSITIVE ENVIRONMENTS	300		
13. SECONDARY SENSITIVE ENVIRONS.	0	0	
T =	300	0	***************************************

### Environmental Threat Targets

Sensitive Environment Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 Nat Reg Natural Landmarks	Y	primary sens. envir.	12	300
2 riparian wetlands	Y	primary sens. envir.	2	300

Total Primary Sensitive Environments Value
Total Secondary Sensitive Environments Value
\*\*\* Note: Maximum of 6 Sensitive Environments Are Printed \*\*\*

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Surface Water Pathway Threat Scores

Threat	Likelihood of Release(LR) Score	Targets(T) Score	Pathway Waste Characteristics (WC) Score	Threat Score LR x T x WC / 82,500
Drinking Water	550	57	100	38
Human Food Chain	550	300	100	100
Environmental	550	300	100	60

SURFACE WATER PATHWAY SCORE:

100

Resident Population	
Is any residence, school, or daycare facility on or within 200 feet of an area of suspected contamination? (y/n/u)	N
Is any residence, school, or daycare facility located on adjacent land previously owned or leased by the site owner/operator? (y/n/u)	N
Is there a migration route that might spread hazardous substances near residences, schools, or daycare facilities? (y/n/u)	Y
Have onsite or adjacent residents or students reported adverse health effects, exclusive of apparent drinking water or air contamination problems? $(y/n/u)$	N
Does any neighboring property warrant sampling? (y/n/u)	Ų
Other criteria? (y/n) N	
RESIDENT POPULATION IDENTIFIED? (y/n)	N
Summarize the rationale for Resident Population:	

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BO-KIT ASDESTOS	Site - 03/2	0/103		
SOIL EXPOSURE PATE	HWAY SCORESHEET	'S		
athway Characteristics				Ref.
Do any people live on or within of areas of suspected contamin	200 ft nation? (y/n)	<del></del>	No	
Do any people attend school or of areas of suspected contamin	daycare on or w	vithin 200 ft	No	
Is the facility active? (y/n):			No	
LIKELIHOOD OF EXPOSURE	Suspected Contamination	References		
1. SUSPECTED CONTAMINATION LE =	550	***************************************		
Cargets				
2. RESIDENT POPULATION 1 resident(s) 0 school/daycare student(s)	0			
3. RESIDENT INDIVIDUAL	0			
4. WORKERS None	0			
5. TERRES. SENSITIVE ENVIRONMENTS	0			
6. RESOURCES	0			

WASTE CHARACTERISTICS

WC = 100

RESIDENT POPULATION THREAT SCORE:

60

NEARBY POPULATION THREAT SCORE:

1

Population Within 1 Mile: 1 - 10,000

SOIL EXPOSURE PATHWAY SCORE:

61

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Soil Exposure Pathway Terrestrial Sensitive Environments

Terrestrial Sensitive Environment Name	Reference	Value
1 riparian wetland	2	25

\*\*\* Note: Maximum of 7 Sensitive Environments Are Printed \*\*\*

Air Pathway Criteria List	
Suspected Release	
Are odors currently reported? (y/n/u)	N
Has release of a hazardous substance to the air been directly observed? $(y/n/u)$	N
Are there reports of adverse health effects (e.g., headaches, nausea, dizziness) potentially resulting from migration of hazardous substances through the air? (y/n/u)	N
Does analytical/circumstantial evidence suggest release to air? $(y/n/u)$	Y
Other criteria? (y/n) N	
SUSPECTED RELEASE? (y/n)	Y
Summarize the rationale for Suspected Release:	
The PA/SI and Phase 2 investigations indicate percent-level asbestos is present in waste material at the site. Observations duirin the site reconnaissance by Shaw E & I and PADEP indicates extensive areas of exposed waste material in friable form. Windblown transport of asbestos-containing dust is suspected to be likely.	

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### AIR PATHWAY SCORESHEETS

athway Characteristics				Ref.
Do you suspect a release? (y/n	)	Ye	es	
Distance to the nearest indivi	dual (feet):	20	00	3
		T	1	
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	Refe	rences
1. SUSPECTED RELEASE	550			
2. NO SUSPECTED RELEASE		0		
LR =	550	0		
argets				
TARGETS	Suspected Release	No Suspected Release	Refe	rences
3. PRIMARY TARGET POPULATION 500 person(s)	5000		P1014B101	
4. SECONDARY TARGET POPULATION	9	0		
5. NEAREST INDIVIDUAL	50	0		
6. PRIMARY SENSITIVE ENVIRONS.	125			
7. SECONDARY SENSITIVE ENVIRONS.	3	0		
8. RESOURCES	5	0	44444	
T =	5192	0		

WC =

100

100

WASTE CHARACTERISTICS

AIR PATHWAY SCORE:

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Air Pathway Secondary Target Populations

Distance Categories	Population	References	Value
Onsite	N.A.		0
Greater than 0 to 1/4 mile	N.A.		0
Greater than 1/4 to 1/2 mile	1000	5	3
Greater than 1/2 to 1 mile	2000	5	3
Greater than 1 to 2 miles	3000	5	1
Greater than 2 to 3 miles	4000	5	1
Greater than 3 to 4 miles	5000	5	1
	Total Secondary Popula	ation Value	9

Air Pathway Primary Sensitive Environments

Sensitive Environment Name	Reference	Value
1 riparian wetlands	2	100
2 Nat Reg of Natural Landmarks	12	25
Total Primary Sensitive E	nvironments Value	125

Total Primary Sensitive Environments Value \*\*\* Note: Maximum of 7 Sensitive Environments Are Printed\*\*\*

Air Pathway Secondary Sensitive Environments

Sensitive Environment Name	Distance	Reference	Value
1 riparian wetlands	>1/4-1/2	2	2.7
2 Nat Reg of Natural Landmarks	>1/4-1/2	12	0.1
Total Secondary Se	nsitive Environme	ents Value	

SITE SCORE CALCULATION	SCORE
GROUND WATER PATHWAY SCORE:	59
SURFACE WATER PATHWAY SCORE:	100
SOIL EXPOSURE PATHWAY SCORE:	61
AIR PATHWAY SCORE:	100
SITE SCORE:	83

#### SUMMARY

1. Is there a high possibility of a threat to any nearby drinking water well(s) by migration of a hazardous substance in ground water? No If yes, identify the well(s).
If yes, how many people are served by the threatened well(s)? 0

- 2. Is there a high possibility of a threat to any of the following by hazardous substance migration in surface water?
  - A. Drinking water intake

No Yes

B. Fishery

Yes

- C. Sensitive environment (wetland, critical habitat, others)
- If yes, identity the target(s).
  - B. Wissahickon Creek fishery adjoins site and sampling indicates asbestos contamination is C. Riparian wetlands occur on site adjacent to Wissahickon Creek.
- 3. Is there a high possibility of an area of surficial contamination within 200 feet of any residence, school, or daycare facility? No
  If yes, identify the properties and estimate the associated population(s)
- 4. Are there public health concerns at this site that are not addressed by PA scoring considerations?

No

If yes, explain:

#### REFERENCE LIST

- State Well Database
   EDR radius search report
- 2. National Wetlands Inventory EDR radius search report
- 3. PA/SI Prepared for USEPA
- 4. Phase II Report
  Montgomery County Redevelopment Authority
- 5. Estimated population distribution
  Ambler Borough population approximately 6,000
- 6. Flood Zone Maps
  EDR radius search report
- 7. USGS Topographic Maps
- 8. Philadelphia Water Company web site
- 9. Pennsylvania Fish Commission web site
- 10. Ambler Borough Public Utilities web site
- 11. No data available
- 12. PADEP Watershed Restoration Action Strategy web site