## LIST OF EXHIBITS

## (IPHH PMTT CO&A)

Exhibit A: Map Depicting AMD Discharges and Location of Treatment System

Exhibit A-1: Letter dated March 18, 2009 from IPHH to DEP detailing Chemical Treatment

System and Personal Property associated with Treatment System

Exhibit B: Raw Water Quality of AMD Discharges

Exhibit C: Participation Agreement between IPHH and The Clean Streams Foundation, Inc.

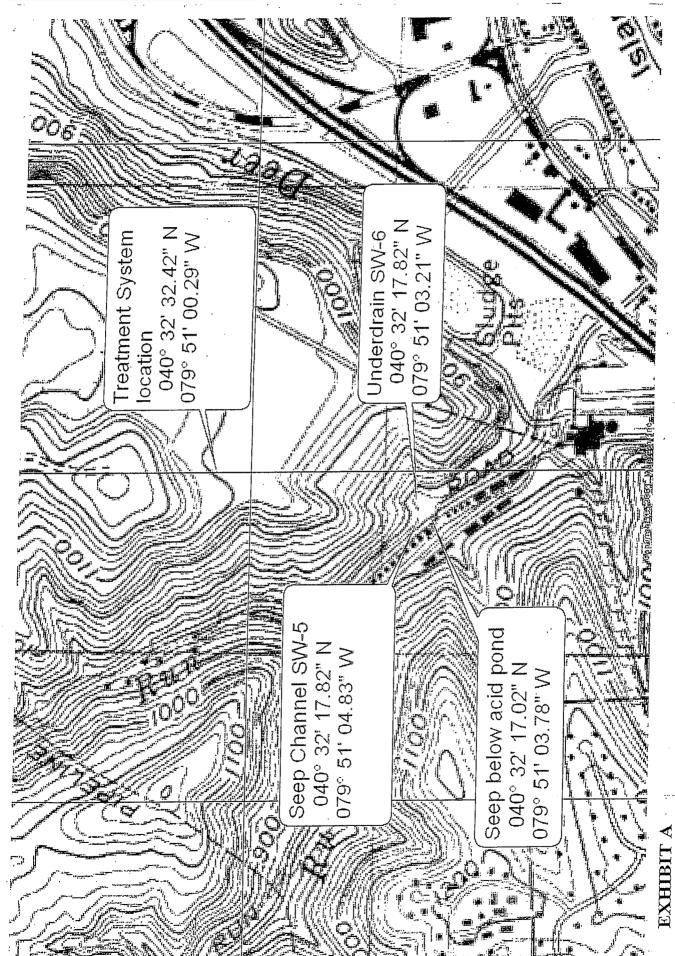
Exhibit D: Graphical Depiction of Distribution or Contribution Amounts

Exhibit E: Graphical Depiction of Adjustment to the Target Valuation Deviation between

Actual Treatment Costs and Calculated Primary Treatment Costs

Exhibit F: AMDTreat Recapitalization Cost Worksheet Showing Required Annual Balance

of Capital Improvement Account for a 75-Year Period



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By Email and First Class Mail

March 18, 2009

District Mining Manager
Department of Environmental Protection
Greensburg District Mining Office
8205 Route 819
Greensburg, PA 15601

RE: IPHH Harmar CRDA

Dear Mr. Pontorero:

At the request of your Counsel, we are submitting a description of the water treatment system at Harmar, and a list of water treatment equipment to be transferred to the Clean Streams Foundation as required by paragraph 17 of the IPHH PMTT CO&A.

The Harmar Refuse Site Acid mine drainage (AMD) treatment system is comprised of the following basic elements:

- 1. AMD Collection System
- 2. AMD Pumping System
- 3. Two alternative AMD Alkaline precipitation/Caustic Treatment Systems, including the pipes to the Discharge Points

1. Collection of AMD. There are three points where AMD is collected. The first point is located along Guys Run Road and is indentified as Seep Channel SW-5 (Latitude 40° 32' 17.82"N and Longitude 79° 51" 4.83" W. The second point is identified as Seep Below Acid Pond (located between the Acid Pond and Guys Run) (Latitude 40° 32' 17.02"N and Longitude 79° 50' 3.78" W). The third point is described as SW-6 (Latitude 40° 32' 17.82N and Longitude 79° 51' 3.21" W) which represents the toe of fill discharge and is collected in the Acid Pond.

AMD collected near Point 1 is directed into a concrete sump and pumped from the sump to the Acid Pond. AMD seep collected at Point 2 is directed into a second concrete sump and then pumped to the Acid Pond. There is a 3/4 HP electric pump with a float located in each sump (Total of 2). These pumps work off a float. The pumps are engaged when the float reaches a certain elevation in the sump and shuts off when the float is lowered to a lower elevation automatically. The water is pumped from the sump to the Acid Pond through a 1.5 inch plastic pipe.

2. Pump System. The water in the acid pond is pumped from the acid pond to one of 2 treatment systems. There are two Pumps at the Acid Pond. A 15 HP High Head Submersible Electric pump - 480 v pumps to the Outfall 002 system, and a 13 HP Submersible Electric Pump feeds the Outfall 001 system. Both pumps work off a timer

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and automatically pump water to a treatment system. At any time, only one pump is hooked up to the timer and the other pump is not in use. There is a 6" inside diameter pipe from the acid pond to the Outfall 001 Treatment system and a 3" Plastic Pipeline from the Acid Pond to the Outfall 002 Treatment System.

The four pumps (2 sump, 2 to treatment systems) are electric powered, with the electric panel box located on a utility pole adjacent to the Acid Pond.

3. Treatment Systems. The existing treatment systems are the "Outfall 001" system or the "Outfall 002" system. Each of these systems are capable of treating the AMD, but only one of the 2 systems is needed to treat the AMD drainage.

At the Outfall 001 system, currently used by MTI to treat acid pond water and stormwater, AMD waters are treated with caustic soda prior to entering the "sediment pond" prior to discharge at Outfall 001. The treatment system consists of an inline mixer, caustic soda manual regulator, and sedimentation pond. This system will operate until reclamation advances to the point that the sediment pond is reclaimed. The reclamation of the sediment pond and removal of treatment equipment will be covered by the Reclamation Bond.

Long term treatment of the AMD under the mine treatment trust, if required, will be done in the Outfall 002 system (currently used to treat pit water). Costs for future Maintenance and operation of this system are the basis of calculation of the Post-Mining Treatment Trust. The AMD is pumped from the Acid Pond to the Caustic Soda Treatment System near the top of the hill. Caustic Soda (from the Caustic Soda Storage Tank) is mixed automatically (based on flow) with the AMD in the Aqua-Shear In-line Mixer. AMD/Caustic soda is mixed and discharged into the first of three lined impoundments. The impoundments allow for aeration, settling and polishing of the treated water. The water from the 3<sup>rd</sup> (last) impoundment in the treatment system is discharged through a 3" plastic pipe at the NPDES Out Fall No. 002 (Latitude 40° 32' 16" N and Longitude 79° 51' 04") into Guys Run.

Table 1 is a list of the equipment used in the current and long term treatment systems to be transferred to the Clean Streams Foundation.

Kindly contact me if you have any questions on this submission.

Sincerely,

David A. Kellermeyer

Vice President

Environment, Health & Safety

Attachment (Table 1)

Mr. Joel Pontorero March 18, 2009 Page 3

Cc: G. Myers, Esq. by email

H. Klodowski, Esq. by email

Dean Hunt, Clean Streams Foundation by email

## Table 1 AMD Treatment Equipment List for Harmar Refuse Site

### A. Collection and Pumping

- 1 Electric Panel Box (Located Adjacent to the Acid Pond)
- 2 Sumps (Guys Run Road and Guys Run)
- 1 3/4 HP submersible electric pump 110v with float Guys Run Road Sump
- 1 3/4 HP submersible electric pump 110v -with float . Guys Run Sump
- 1.5 inch PVC pump and discharge lines (from Sumps to Acid Pond)
  Acid Pond

#### B. Oufall 001 System

- 1 13 HP Electric Pump
- 6 Inch (Inside diameter) Drisco Pipe to Outfall 001 Treatment Facility
- 1 Inline mixer
- 1 6000 gallon Storage Tank for Caustic Soda
- 1 manual caustic soda feed regulator
- 1 sedimentation pond
- 1 dredge
- 1 geotextile sediment bag
- 1 plastic pipe to Outfall 001 on Guys Run

#### C. Outfall 002 System

- 1 15 HP High Head Submersible Electric Pump with Timer 480 v Pumps water from Acid Pond to Treatment System
- 3 Inch Plastic Pipe from Pump to 002 Treatment Facility
  Caustic Soda Treatment System
- 3 Treatment Ponds with Liners
- 1 6000 gallon Storage Tank for Caustic Soda
- 1 Caustic Feed flow regulator
- 1 In-Line Aeration Unit
- 3. Inch Plastic Line from the third pond (polishing pond) to the NPDES Outfall Point (002) on 'Guys Run

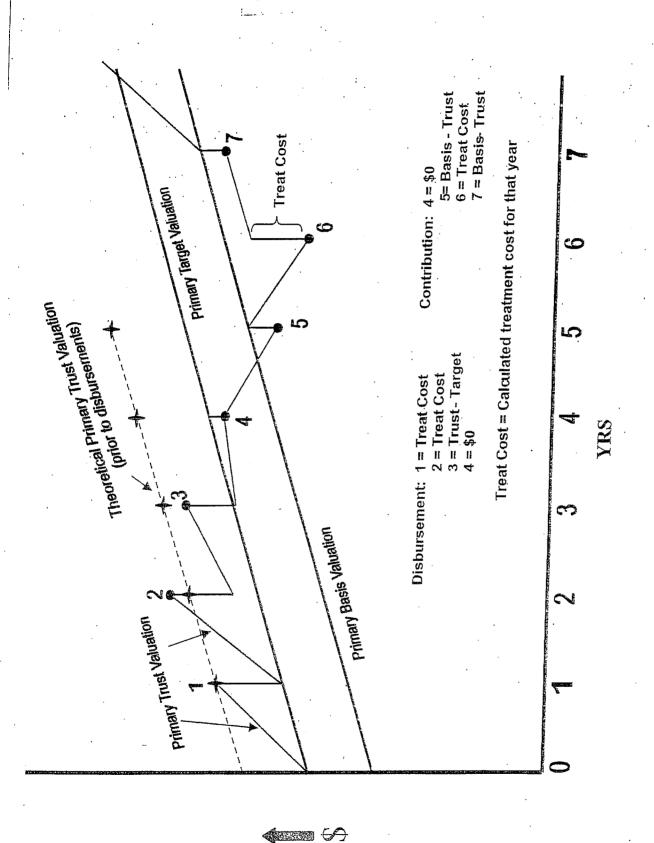
## EXHIBIT B

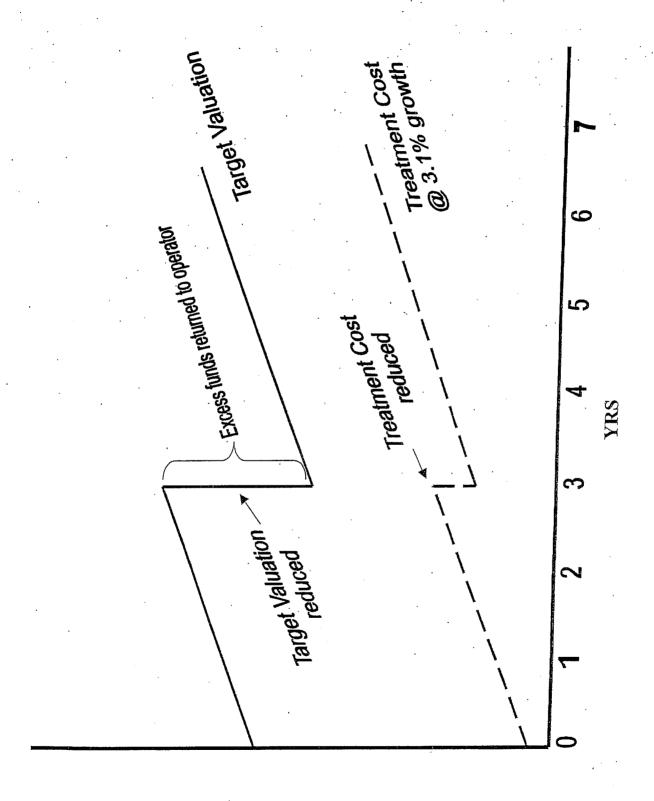
# Summary of Raw Water Quality of the Combined AMD Discharges at Harmar CRDA

Alkalinity	22 milligrams per liter (mg/l)
Net Acidity	434 mg/l
Design Flow	100 gallons per minute (gpm)
Typical Flow	45 gpm
Total Iron	202 mg/l
Aluminum	2.88 mg/l
Manganese	9.07 mg/l
pН	5.2 standard units
Sulfate	2,248 mg/l

# Exhibit C

Participation Agreement





# Exhibit F

AMDTreat Recapitalization Cost Worksheet

Showing Long-Term Required Annual Balance of Capital Improvement Account

Printed on 03/27/2009

Company Name IRHH

Project Harmar CRDA caustic system (ve

Site Name Harmar CRDA

Life of Trust Fund 75 yrs Inflation Rate 3.10 %

## AMD TREAT RECAPITIZALITION COST



	inflation Rate	3,10	%	RECAPITIZALITION COST			Ē.		
	Return Rate	8.43	%	,				FINDTR	<del></del>
Year	Trust Fund	Trust Fund		Payout		Year	Trust Fund	Trust Fund	Payout
	_ Growth	Growth		Schedule		<b>a</b>	Growth Fund Before Payout	Growth Fund After Payout	Schedule
	Fund Before Payout	Fund After Payout		1 41 1 1	-		Fulla Detale Fayour	· ·	
	40,655	40,6	_	initial Fund Amour		<u> </u>	440.740	148,719	0
1	44,082	44,0				51	148,719		0
2	47,798	47,7	-	(		52	161,256	161,256	0
3	51,828	51,8				53	174,850	174,850	0
4	56,197	56,1	97			54	189,590	189,590	
5	60,934	49,8		11,066		55	205,573	154,645	50,927
6	54,071	54,0		C		56	167,682	167,682	0
7	58,630	58,6	30	0	17721777	57 ·	181,818	181,818	0
8	63,572	. 63,5	72	0		58	197,145	197,145	
9	68,931	68,9	31	0		59	213,764	213,764	0
10	74,742	61,8	51	12,891		60	231,785	172,459	59,325
11	67,065.	67,0	65	0		61	186,997	. 186,997	0
12	72,718	72,7	18	0		62	202,761	202,761	0
13	78,848	78,8	48	. 0		63	219,854	219,854	0
14	85,495	85,49	95	0		64	238,388	238,388	0
15	92,703	77,68	35	15,017		65	258,484	189,374	69,109
16	84,234	84,23	34	0		66	205,339	. 205,339	0
17	91,335	91,33	35	. 0		67	222,649	222,649	0
18	99,034	99,03	34	0		68	241,418	241,418	0
19	107,383	107,38	33	0		69	261,770	261,770	0
20	116,435	98,94	11	17,494		70	283,837	203,330	80,506
21	107,282	107,28	32	0		71	220,471	220,471	0
22	116,326	116,32	26	. 0		7.2 ·	239,057	239,057	. 0
23	126,132	126,13	32	0		73	259,209	259,209	0
24	136,765	136,76	55	0		74	281,061	281,061	0
25	148,294	82,07	0	· 66,224		- 75	304,754	. 0	304,754
26	88,989	88,98	9	0		76	0	0	0
27	96,490	96,49	10	0		77	0	0	0
28	104,625	104,62	5	0		78	0	0	0
29	113,444	113,44	4	. 0		79	0	0	. 0
30	123,008	99,26	8	23,740		80	0	0	0
31	107,636	107,63	6	0		81	. 0	0	0
32	116,710	116,71	0	0		82	0	. 0	0
33	126,548	126,54	8	0		83	0	0	0
34	137,216	137,21	6	0		84	0	0	0
35	148,784	121,12	9	27,655		85	0	0	, 0
36	131,340	131,34	0	. 0		86	0	0	0
37	142,412	142,41.	2	0		87	0	0 .	0
38	154,417	154,41	7	0		88	0	0	0
39	167,435	167,43		0		89	0	0	0
40.	181,549	149,33		32,215		90	0	0	0
41	161,922	161,92		0		91	0	0	0
42	175,572	175,57		0		92	0	0	0
43	190,373	190,37	_	· 0		93	0	0	0
44	206,422	206,422		0		94	Ö	0 :	0
45	223,823	186,298		37,528		95	0	0	. 0
46	201,999	201,999		0		96	0	0	0
47	219,028	219,028		0		97	0	0	0
48	237,492	237,492		0		98	. 0	0	0
49	257,512	257,512		0		99	0	. 0	. 0_
50	279,221	137,157		142,063		100 .	0	. 0	0