

ENGINEER'S ESTIMATE OF PROBABLE COSTS FOR REMEDIATION OF SITE ELIZABETH TOWNSHIP

FLY ASH PIT	ITEM	DESCRIPTION		ESTIMATED COSTS	COMMENTS
	1	TEMPORARY DRAINAGE CONTROLS	Assumes Temporary Drainage Controls around Site A	\$ 250,000.00	Limits will be determined once Exploratory Drilling is completed
	2	EXCAVATION of SITE A	Material is hard and will require extensive work to excavate	\$ 31,036,500.00	689,700 cyds Fly Ash (@\$45/CY)
	3	TRUCKING, TIPPING & DISPOSAL FEES	Assumes Disposal at EnviroSAFE Oregon, OH	\$ 251,172,150.00	\$150/ton (assuming 1,674,481 tons)
	4	CLEAN BACKFILL MATERIAL	Clean Fill from Off Site Source	\$ 44,830,500.00	Includes price for operator to place and compact (@\$65/CY)
	5	ENGINEERING/ENVIRONMENTAL SERVICES DURING CONSTRUCTION	Site Design, Field observation & oversight	\$ 1,100,000.00	
SITE A TOTAL				\$ 328,389,150.00	

SITE B	ITEM	DESCRIPTION		ESTIMATED COSTS	COMMENTS
	1	TEMPORARY DRAINAGE CONTROLS	Assumes Temporary Drainage Controls around Site B	\$ 250,000.00	Limits will be determined once Exploratory Drilling is completed
	2	EXCAVATION of SITE B	Material is hard and will require extensive work to excavate	\$ 4,365,000.00	58,200 CY Coal Tar K087 (@\$75/CY)
	3	TRUCKING, TIPPING & DISPOSAL FEES (INCINERATION)	Assumes Disposal at Veolia Illinois Incinerator Facility	\$ 60,182,437.50	\$465/ton K087 (assuming 87,300 tons)
	4	CLEAN BACKFILL MATERIAL	Clean Fill from Off Site Source	\$ 3,783,000.00	Includes price for operator to place and compact (@\$65/CY)
	5	ENGINEERING/ENVIRONMENTAL SERVICES DURING CONSTRUCTION	Site Design, Field observation & oversight	\$ 1,100,000.00	
SITE B TOTAL				\$ 69,680,437.50	

SITE C	ITEM	DESCRIPTION		ESTIMATED COSTS	COMMENTS
	1	TEMPORARY DRAINAGE CONTROLS	Assumes Temporary Drainage Controls around Site C	\$ 250,000.00	Limits will be determined once Exploratory Drilling is completed
	2	EXCAVATION of SITE C	C&D Debris	\$ 33,090,255.00	735,339 cyds demolition wastes (approx. 25 ft deep x 6 acres) (@\$45/CY)
	3	TRUCKING, TIPPING & DISPOSAL FEES	Assumes Disposal at EnviroSAFE Oregon, OH	\$ 132,361,050.00	\$150/ton (assuming 882,407 tons)
	4	CLEAN BACKFILL MATERIAL	Clean Fill from Off Site Source	\$ 47,797,035.00	Includes price for operator to place and compact (@\$65/CY)
	5	ENGINEERING/ENVIRONMENTAL SERVICES DURING CONSTRUCTION	Site Design, Field observation & oversight	\$ 1,100,000.00	
SITE C TOTAL				\$ 214,598,340.00	

SITE ADJACENT LANDS	ITEM	DESCRIPTION		ESTIMATED COSTS	COMMENTS
	1	ENVIRONMENTAL / GEOTECH BORINGS MOBILIZATION	Mobilization of Equipment and Preparation of Site	\$ 5,000.00	
	2	ENVIRONMENTAL / GEOTECH BORINGS	Includes oversight and logging of drilling activities	\$ 170,000.00	\$2,000 per bore, approx 85.
	3	BACKFILL BORINGS	Concrete/Bentonite	\$ 21,250.00	Borehole closure and cleanup
	4	LABORATORY ANALYSIS	Cost for analysis of bores	\$ 127,500.00	
	5	LIMITED HOT SPOT REMEDIATION	As needed / If encountered	\$ 250,000.00	Assumes T&D for hot spot excavation areas, if needed
ADJACENT LANDS TOTAL				\$ 573,750.00	

	SUB -TOTAL		\$ 613,241,677.50	
	CONTINGENCY @ 20%		\$ 122,648,335.50	

TOTAL ENGINEER'S ESTIMATE OF PROBABLE COSTS **\$ 735,890,013.00**

1. Unit Rates and Quantities developed based upon information available at the time of the estimate.
2. Final Estimate will require a request to DEP to review all available files.
3. A 20% contingency has been added for unknown/unforeseen circumstances at site.
4. Depending upon when a remediation and removal would occur, disposal costs have the potential to change significantly.
5. This estimate was conducted to compare the current condition property values to a remediated site condition.
6. Per DEP, under the Fly Ash Pit's current closed status, it is not permitted to be uncapped or disturbed.