



S201-40-410-04
Task 4, 5 & 6
Hazardous Materials Monitoring, Removal, and Post-Removal Soil Sampling
Cost Estimates
28 Buildings, Surplus II
Seaside, California



Prepared for:
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EXECUTIVE SUMMARY

Vista Environmental Consulting (Vista) has generated this hazardous materials Monitoring (Task 4), Removal (Task 5), and Post-Removal Soil Sampling (Task 6) cost estimate for the 28 buildings of Surplus II, Seaside, California (Project Site). Vista's cost estimate was generated by Charles Bove, a State of California Division of Occupational Safety and Health (Cal/OSHA) Certified Asbestos Consultant (CAC #92-0160) and Christopher Burns (CAC #92-0224) and a State of California Department of Public Health (CDPH) certified Lead Inspector/Assessor (LRCIA #663).

The buildings of the Surplus II area are part of Fort Ord, a former United States Army post on the Monterey Bay coast which closed in 1994. The Army left behind approximately 1,600 buildings ranging in age from the early 1900's to the late 1980's. Many of the buildings are currently in a state of disrepair. These buildings are set for demolition in an effort to redevelop the area.

Cost Estimate Totals:

- Task 4 – \$ 1,229,800
- Task 5 – \$12,693,194
- Task 6 – \$ 9,693

The totals are the sum of 28 buildings, each with its own cost estimate. The Task 4 cost was derived by estimating the amount of labor required and multiplying it by a labor wrap rate. Task 5 cost estimates were prepared for each building and are the sum of the costs to remove each homogeneous material type from each building. The material cost is the product of an estimated unit cost and the estimated material quantity. Task 6 cost estimate is based on previous contracts of similar size and scope.

The Task 4 and 5 hazardous materials monitoring and removal estimated cost table for all buildings can be found in *Section 4 – Cost Estimates* and the estimate for each building broken out by materials can be found in *Appendix A – Task 4 & 5 Building Cost Estimates*. The Task 6 cost estimate can be found in *Section 4 – Cost Estimates*.

Respectfully Submitted,
Vista Environmental Consulting



Christopher R. Burns
Senior Project Manager
CAC #92-0224
LRCIA #663

1.0 INTRODUCTION

At the request of Fort Ord Reuse Authority (FORA) Vista Environmental Consulting (Vista) has generated this hazardous materials Monitoring (Task 4), Removal (Task 5), and Post-Removal Soil Sampling (Task 6) cost estimate for the 28 buildings of Surplus II, Seaside, California (Project Site). Hazardous material types and estimated quantities were obtained from Vista's report titled "*S201-40-410-04, Task 3 – Pre-Demolition Hazardous Materials Survey, 28 Buildings, Surplus II, Seaside, California*" and dated June 13, 2016 (Survey Report).

2.0 BACKGROUND

Site Background

The buildings of the Surplus II area are part of Fort Ord which is a former United States Army post on the Monterey Bay coast which closed in 1994. Fort Ord was established in 1917, originally as Camp Gigling, as a military training base for infantry troops. In 1917, the East Garrison area and nearby lands on the east side of Fort Ord were purchased to use as a maneuver and training ground for field artillery and cavalry troops stationed at the Presidio of Monterey. In the late 1930s, the administrative buildings, barracks, mess halls, tent pads, and a sewage treatment plant were constructed. In 1938, additional agricultural property was purchased for the development of the Main Garrison. At the same time, beachfront property to the west was donated to the Army. Camp Gigling became Camp Ord in 1939 and then became Fort Ord in 1940. The Main Garrison was constructed between 1940 and the 1960s, starting in the northwest corner of the base and expanding southward and eastward.

In 1990, the US Secretary of Defense announced that the military would begin a process to reduce the number of nationwide military installations and Fort Ord was one of the bases named for closure. In 1991, it was formally announced that Fort Ord would be downsized and the Defense Base Realignment and Closure Commission (BRAC91) recommended that Fort Ord be closed. The closure of most of the former Fort Ord was completed in 1994.

The Army left behind approximately 1,600 buildings ranging in age from the early 1900's to the late 1980's. Many of the buildings are currently in a state of disrepair. These buildings are set for demolition in an effort to redevelop the area.

Buildings Background

The Surplus II is comprised of 28 Buildings including 10 "Rolling Pins" (RP), 8 "Hammerheads" (HH), 5 Administration Buildings (AD), 2 Armories (AR), 1 Cafeteria (CF), and a Gymnasium (G) with an adjacent small metal structure.

The 41,000 square foot Rolling Pin buildings are located on the west and central parcels and were constructed in 1970. They are 3-story high dorm style barracks buildings with bedrooms, storage, restrooms, laundry rooms and lounge areas. Each Rolling Pin has a basement mechanical room with a boiler and water heaters. The Rolling Pins are constructed of reinforced concrete structural components with concrete masonry unit walls. Windows are aluminum framed and interior finishes include vinyl floor tiles, ceramic floor and wall tiles, some wallboard walls and ceilings, plaster pipe chases and ceilings, and drop-in ceiling panels. Roofing is tar and gravel on concrete decks. Rooms have radiators for heat. Electrical transformers are located outside the building footprints.

The 42,000 square foot Hammerhead buildings are located on the east parcel, were constructed in 1954 and renovated in the 1970's. The handle portions are 3-story high barracks buildings with bedrooms, storage, restrooms, laundry rooms and lounge areas. Originally the east and west ends of the handle portions were open barracks style rooms that were later converted to dorm style. The head portion contains a kitchen and dining or office area. Each Hammerhead has a basement mechanical room with a hot water tank in the head. The 2 south most Hammerheads (HH4430 and HH4440) have 3 boilers in the basement. Pipes run subsurface from between the boilers to the mechanical rooms of the other buildings. Each building has an armory and storage in the basement portion of the handle. The Hammerheads are constructed of reinforced concrete structural components with concrete masonry unit walls. Windows are steel framed and interior finishes include vinyl floor tiles, ceramic floor and wall tiles, drop-in ceiling panels, some wallboard walls and plaster walls and ceilings. Roofing is tar and gravel on a concrete deck. Rooms have radiators for heat. Electrical transformers are located in the basement of the head.

The 3 small Administration buildings (5,700 square feet each) are located on the north side of the east parcel and were constructed in 1954 and renovated in the 1970's. The 2 large Administration buildings (8,300 square feet each) are located on the north side of the central parcel. The original use of the buildings was for training as evidenced by two projection booths adjacent to the restrooms. All buildings are 1-story with concrete masonry structural walls on a concrete slab foundation. The large buildings have a mechanical room with a boiler and hot water heater. The small buildings have no mechanical rooms and are fed hot water via subsurface piping from the Hammerheads. All buildings have two forced air heaters located on the opposite side of the wall from the restrooms. Windows are steel framed and interior finishes include vinyl floor tiles, ceramic floor and wall tiles, drop-in ceiling panels, wallboard walls and ceilings. Roofing is 3-tab shingle on a wood deck.

The 2 Armories buildings (12,200 square feet each) are located on the northeast and northwest sides of the central parcel and were built in 1970. Building AR4450 is currently being used by the City of Seaside. Both buildings are 1-story with concrete masonry structural walls on a concrete slab foundation. They have a mechanical room with a boiler and hot water heater. Windows are steel framed and aluminum framed and interior finishes include vinyl floor tiles, ceramic floor tiles, wallboard walls and ceilings. Roofing is tar and gravel on a metal deck.

The 12,000 square foot Cafeteria building is located on the southeast side of the central parcel and the 21,000 square foot Gymnasium building is located on the north side of the west parcel. Both were built in 1970. Both buildings are 1-story with concrete masonry structural walls on a concrete slab foundation. They have a mechanical room with a boiler and hot water heater. Windows are steel framed and aluminum framed and interior finishes include vinyl floor tiles, ceramic floor tiles, and wallboard and plaster walls and ceilings. Roofing is tar and gravel on a metal deck.

3.0 METHODOLOGY

Vista's cost estimate was generated by Charles Bove, a State of California Division of Occupational Safety and Health (Cal/OSHA) Certified Asbestos Consultant (CAC #92-0160) and Christopher Burns (CAC #92-0224) and a State of California Department of Public Health (CDPH) certified Lead Inspector/Assessor (LRCIA #663).

Task 4

Task 4 is to provide an estimate for a Hazardous Material Removal Monitoring Plan. The scope the estimate is based on is for the future monitoring firm's certified designer to prepare a monitoring plan for the hazardous material remediation of the Surplus II site. The estimate includes staffing by an industrial hygienist (IH) who will follow applicable regulatory and industry standards for air monitoring, sampling, and testing procedures for site air quality and waste characterization. The estimate also includes costs for weekly electronic hazardous material monitoring reports and site recording of air sampling results, and an Emergency Response Plan for the IH monitoring staff.

Task 5

Task 5 is to provide a building by building estimate for the removal of hazardous materials from the Surplus II site based on similar work by abatement professionals. The estimate is based on utilizing a Cal/OSHA registered and California licensed contractor for abatement of hazardous materials that will be impacted and that the contractor shall perform all hazardous materials abatement work in accordance with the most recent edition of applicable federal state, and local regulations, standards, laws, ordinances and codes including, but not limited to, those applicable to worker and public safety, compliance notifications, abatement, transportation, and disposal.

Task 6

Task 6 is to provide an estimate for monitoring firm to perform a series of asbestos and lead soil samples and tests after completion of the Surplus II hazardous material remediation. This testing shall mimic the tests done by Vista as part of the Task 2 background soil sampling. The firm shall collect and analyze 106, "4-point composite soil samples" throughout the site (4 samples per building, one sample per side for all buildings except armories) taken from the top 6" of soil within 10' of the building footprint.

AR4450 has no soil on the west side and AR4458 has no soil on the east side where there are parking lots and sidewalks. The firm shall also generate a report of findings.

The cost estimates were generated by using historical bidding data from similar military building abatement projects, conversations with contractors and clients, and personal experience. The cost estimates were generated using the following bases and assumptions:

- Based on a non-competitive bidding atmosphere.
- It is not an economy of scale. The pricing is based on each material being removed individually not as part of the building as a whole or as groups of buildings being bid at the same time.
- Based on 2016 prevailing wage rates.
- Based on the condition of the hazardous materials at the time of the Survey Report.
- Based on regulations at the time of the Survey Report.
- Unit costs are a wrap rate inclusive of direct, indirect and operational costs.
- Material quantities were visually estimated by a subject matter expert. Actual quantities may be different.

4.0 COST ESTIMATES

Task 4 & 5

ADMINISTRATION BUILDINGS											
	AD4408	AD4418	AD4438	AD4550	AD4560						Totals
Task 4 Monitoring	\$ 14,300	\$ 11,700	\$ 6,500	\$ 5,200	\$ 13,000						\$ 50,700
Task 5 Asbestos Removal	\$ 77,184	\$ 63,823	\$ 18,030	\$ 7,977	\$ 34,246						\$ 201,260
Task 5 Other Hazmat Removal	\$ 4,046	\$ 3,368	\$ 1,448	\$ 1,519	\$ 1,600						\$ 11,980
Sub-Total	\$ 81,230	\$ 67,191	\$ 19,478	\$ 9,496	\$ 35,846						\$ 213,240
Total	\$ 95,530	\$ 78,891	\$ 25,978	\$ 14,696	\$ 48,846						\$ 263,940
ARMORY BUILDINGS											
	AR4450	AR4458									Totals
Task 4 Monitoring	\$ 13,000	\$ 13,000									\$ 26,000
Task 5 Asbestos Removal	\$ 35,500	\$ 31,070									\$ 66,570
Task 5 Other Hazmat Removal	\$ 5,910	\$ 8,230									\$ 14,140
Sub-Total	\$ 41,410	\$ 39,300									\$ 80,710
Total	\$ 54,410	\$ 52,300									\$ 106,710
CAFETERIA & GYM BUILDINGS											
	CF4453	G4480	G4480A								Totals
Task 4 Monitoring	\$ 13,000	\$ 13,000	\$ 1,300								\$ 27,300
Task 5 Asbestos Removal	\$ 32,437	\$ 30,483	\$ 1,500								\$ 64,419
Task 5 Other Hazmat Removal	\$ 20,830	\$ 7,183	\$ -								\$ 28,013
Sub-Total	\$ 53,267	\$ 37,665	\$ 1,500								\$ 92,432
Total	\$ 66,267	\$ 50,665	\$ 2,800								\$ 119,732
HAMMERHEAD BUILDINGS											
	HH4430	HH4432	HH4434	HH4436	HH4440	HH4442	HH4444	HH4446			Totals
Task 4 Monitoring	\$ 109,200	\$ 109,200	\$ 109,200	\$ 109,200	\$ 109,200	\$ 109,200	\$ 109,200	\$ 109,200	\$ 109,200		\$ 873,600
Task 5 Asbestos Removal	\$ 1,385,438	\$ 1,315,048	\$ 1,338,963	\$ 1,342,838	\$ 1,399,478	\$ 1,373,465	\$ 1,313,859	\$ 1,336,273			\$ 10,805,359
Task 5 Other Hazmat Removal	\$ 8,384	\$ 7,809	\$ 7,809	\$ 7,915	\$ 8,935	\$ 8,934	\$ 8,353	\$ 29,559			\$ 87,696
Sub-Total	\$ 1,393,821	\$ 1,322,856	\$ 1,346,771	\$ 1,350,753	\$ 1,408,413	\$ 1,382,399	\$ 1,322,211	\$ 1,365,831			\$ 10,893,055
Total	\$ 1,503,021	\$ 1,432,056	\$ 1,455,971	\$ 1,459,953	\$ 1,517,613	\$ 1,491,599	\$ 1,431,411	\$ 1,475,031			\$ 11,766,655
ROLLING PIN BUILDINGS											
	RP4451	RP4452	RP4454	RP4456	RP4457	RP4466	RP4467	RP4469	RP4471	RP4472	Totals
Task 4 Monitoring	\$ 26,000	\$ 22,100	\$ 22,100	\$ 22,100	\$ 22,100	\$ 28,600	\$ 27,300	\$ 32,500	\$ 27,300	\$ 22,100	\$ 252,200
Task 5 Asbestos Removal	\$ 141,435	\$ 116,418	\$ 119,181	\$ 114,306	\$ 119,192	\$ 151,704	\$ 146,046	\$ 178,962	\$ 147,093	\$ 112,236	\$ 1,346,570
Task 5 Other Hazmat Removal	\$ 6,140	\$ 7,179	\$ 6,220	\$ 6,775	\$ 6,309	\$ 6,809	\$ 6,809	\$ 6,809	\$ 6,765	\$ 7,375	\$ 67,189
Sub-Total	\$ 147,575	\$ 123,596	\$ 125,401	\$ 121,081	\$ 125,500	\$ 158,513	\$ 152,855	\$ 185,770	\$ 153,858	\$ 119,611	\$ 1,413,758
Total	\$ 173,575	\$ 145,696	\$ 147,501	\$ 143,181	\$ 147,600	\$ 187,113	\$ 180,155	\$ 218,270	\$ 181,158	\$ 141,711	\$ 1,665,958

The estimated cost for Task 4 for all buildings is **\$1,229,800**.

The estimated cost for Task 5 for all buildings is **\$12,693,800**.

The estimated cost for Task 4 & 5 for all buildings except the Hammerhead Buildings is **\$2,156,340**.

The estimated cost for Task 4 & 5 for the Hammerhead Buildings is **\$11,766,655**.

Task 6

The estimated cost for Task 6 is **\$9,693.00**.

5.0 LIMITATIONS AND EXCLUSIONS

The cost estimate has the following limitations and exclusions:

- Accurate until 2020.
- Does not include hard demolition costs.
- Does not include future changes to prevailing wage rates.
- Does not include future changes to regulations.
- Does not include material condition changes due to man-made or natural causes.
- Does not reflect pricing if bidding scope is entire buildings or groups of buildings.
- Does not reflect pricing if bidding is a competitive and fee based.

Respectfully Submitted,
Vista Environmental Consulting



Christopher R. Burns
Senior Project Manager
CAC #92-0224
LRCIA #663

Reviewed and Approved



Charles R. Bove
Principal
CAC #92-0160

FIGURE 1
SITE PLAN



APPENDIX A
TASK 4 & 5 BUILDING COST ESTIMATES

**ALL SURPLUS II BUILDINGS
TASK 4 and 5
COST ESTIMATE**

ADMINISTRATION BUILDINGS												
	AD4408	AD4418	AD4438	AD4550	AD4560						Totals	
Task 4 Monitoring	\$ 14,300	\$ 11,700	\$ 6,500	\$ 5,200	\$ 13,000						\$ 50,700	
Task 5 Asbestos Removal	\$ 77,184	\$ 63,823	\$ 18,030	\$ 7,977	\$ 34,246						\$ 201,260	
Task 5 Other Hazmat Removal	\$ 4,046	\$ 3,368	\$ 1,448	\$ 1,519	\$ 1,600						\$ 11,980	
Sub-Total	\$ 81,230	\$ 67,191	\$ 19,478	\$ 9,496	\$ 35,846						\$ 213,240	
Total	\$ 95,530	\$ 78,891	\$ 25,978	\$ 14,696	\$ 48,846						\$ 263,940	
ARMORY BUILDINGS												
	AR4450	AR4458									Totals	
Task 4 Monitoring	\$ 13,000	\$ 13,000									\$ 26,000	
Task 5 Asbestos Removal	\$ 35,500	\$ 31,070									\$ 66,570	
Task 5 Other Hazmat Removal	\$ 5,910	\$ 8,230									\$ 14,140	
Sub-Total	\$ 41,410	\$ 39,300									\$ 80,710	
Total	\$ 54,410	\$ 52,300									\$ 106,710	
CAFETERIA & GYM BUILDINGS												
	CF4453	G4480	G4480A								Totals	
Task 4 Monitoring	\$ 13,000	\$ 13,000	\$ 1,300								\$ 27,300	
Task 5 Asbestos Removal	\$ 32,437	\$ 30,483	\$ 1,500								\$ 64,419	
Task 5 Other Hazmat Removal	\$ 20,830	\$ 7,183	\$ -								\$ 28,013	
Sub-Total	\$ 53,267	\$ 37,665	\$ 1,500								\$ 92,432	
Total	\$ 66,267	\$ 50,665	\$ 2,800								\$ 119,732	
HAMMERHEAD BUILDINGS												
	HH4430	HH4432	HH4434	HH4436	HH4440	HH4442	HH4444	HH4446				Totals
Task 4 Monitoring	\$ 109,200	\$ 109,200	\$ 109,200	\$ 109,200	\$ 109,200	\$ 109,200	\$ 109,200	\$ 109,200				\$ 873,600
Task 5 Asbestos Removal	\$ 1,385,438	\$ 1,315,048	\$ 1,338,963	\$ 1,342,838	\$ 1,399,478	\$ 1,373,465	\$ 1,313,859	\$ 1,336,273				\$ 10,805,359
Task 5 Other Hazmat Removal	\$ 8,384	\$ 7,809	\$ 7,809	\$ 7,915	\$ 8,935	\$ 8,934	\$ 8,353	\$ 29,559				\$ 87,696
Sub-Total	\$ 1,393,821	\$ 1,322,856	\$ 1,346,771	\$ 1,350,753	\$ 1,408,413	\$ 1,382,399	\$ 1,322,211	\$ 1,365,831				\$ 10,893,055
Total	\$ 1,503,021	\$ 1,432,056	\$ 1,455,971	\$ 1,459,953	\$ 1,517,613	\$ 1,491,599	\$ 1,431,411	\$ 1,475,031				\$ 11,766,655
ROLLING PIN BUILDINGS												
	RP4451	RP4452	RP4454	RP4456	RP4457	RP4466	RP4467	RP4469	RP4471	RP4472	Totals	
Task 4 Monitoring	\$ 26,000	\$ 22,100	\$ 22,100	\$ 22,100	\$ 22,100	\$ 28,600	\$ 27,300	\$ 32,500	\$ 27,300	\$ 22,100	\$ 252,200	
Task 5 Asbestos Removal	\$ 141,435	\$ 116,418	\$ 119,181	\$ 114,306	\$ 119,192	\$ 151,704	\$ 146,046	\$ 178,962	\$ 147,093	\$ 112,236	\$ 1,346,570	
Task 5 Other Hazmat Removal	\$ 6,140	\$ 7,179	\$ 6,220	\$ 6,775	\$ 6,309	\$ 6,809	\$ 6,809	\$ 6,809	\$ 6,765	\$ 7,375	\$ 67,189	
Sub-Total	\$ 147,575	\$ 123,596	\$ 125,401	\$ 121,081	\$ 125,500	\$ 158,513	\$ 152,855	\$ 185,770	\$ 153,858	\$ 119,611	\$ 1,413,758	
Total	\$ 173,575	\$ 145,696	\$ 147,501	\$ 143,181	\$ 147,600	\$ 187,113	\$ 180,155	\$ 218,270	\$ 181,158	\$ 141,711	\$ 1,665,958	

Haz Mat Removal + Monitoring for all buildings except Hammer Heads \$ 2,156,340
Haz Mat Removal + Monitoring for just Hammer Heads \$ 11,766,655

AD4408
COST ESTIMATE

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 10 workers per 8 hour shift	11	\$1,300.00	\$14,300.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
A	Wallboard/Joint Compound	White/White	Throughout Except Projection Booths. This material is damaged in spots with visible debris on the floor.	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	11,500 SF	11500	\$3.00	\$34,500.00
I	Basecove/Mastic	4" Black/Yellow and Brown	Central Training Room and Adjacent Hallway	Class II	Category I - Non-Friable	16 SF (187 LF)	187	\$3.00	\$561.00
VFT/M (D, J, L, M, N, O, Q)	Vinyl Floor Tile/Mastic	9" Beige, Green, Maroon, White, Red, Aqua, 12" White/Black	Throughout Except Restrooms, East Projection Booth, Mechanical Room and North Central Storage Rooms. This material may be under carpeting and walls.	Class II	Category I - Non-Friable	6,600 SF	6600	\$2.25	\$14,850.00
P	Insulation	White, Fire Door	Lobby into Projection Booths	Unclassified	Friable (RACM when Removed)	62 SF (4 Each)	4	\$200.00	\$800.00
V	Flex Connector	White, HVAC	HVAC Units	Class II	Friable (RACM when Removed)	12 SF (4 Each)	4	\$50.00	\$200.00
W	Cement Pipe	6" O.D, Gray	Attic Space to Roof: Above Projection Booths, HVAC, and Mechanical Room	Class II	Category II - Non-Friable	50 SF (5 Each)	5	\$400.00	\$2,000.00
X	Texture Coat	White, Medium	East Rooms and West Central Rooms	Unclassified (ACCM)	NA (Layer <1% by Point Count)	3,950 SF	3950	\$5.50	\$21,725.00
CC	Heat Shield	Gray, Round Light	Foyers to West Central Restrooms	Class II	Friable (RACM when Removed)	2 SF	2	\$50.00	\$100.00
EE	Mastic	Gray & Black, Roof	Roof	Class II	Category I - Non-Friable	30 SF	30	\$20.00	\$600.00
FF	Mastic	Gray, Expansion Joints	Exterior Walls Near West Central Entrance and Mechanical Room	Class II	Category I - Non-Friable	4 SF (24 LF)	24	\$7.00	\$168.00
II	Sealant	Tan, Door Frame	Exterior Doors	Class II	Category I - Non-Friable	20 SF (240 LF)	240	\$7.00	\$1,680.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	293	\$3.75	\$1,098.75
Batteries: Emergency Lights & Exit Signs	Universal Waste	5	\$25.00	\$125.00
Light Fixture Ballasts	Polychlorinated Biphenyls	147	\$17.50	\$2,572.50
Water Coolers/Fountains	Ozone Depleting Chemicals	1	\$250.00	\$250.00

TOTAL \$81,230.25

**AD4418
COST ESTIMATE**

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 10 workers per 8 hour shift	9	\$1,300.00	\$11,700.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
A	Wallboard/Joint Compound	White/White	Throughout Except Projection Booths	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	12,250 SF	12250	\$3.00	\$36,750.00
VFT/M (D, J)	Vinyl Floor Tile/Mastic	9" Beige, and Brown/Black	Throughout Except West Restrooms, Projection Booths, Mechanical Room, and North Central Storage Rooms.	Class II	Category I - Non-Friable	6,900 SF	6900	\$2.25	\$15,525.00
P	Insulation	White, Fire Door	Lobby into Projection Booths	Unclassified	Friable (RACM when Removed)	62 SF (4 Each)	4	\$200.00	\$800.00
V	Flex Connector	White, HVAC	HVAC Units	Class II	Friable (RACM when Removed)	12 SF (4 Each)	4	\$50.00	\$200.00
W	Cement Pipe	6" O.D, Gray	Attic Space to Roof: Above Projection Booths, HVAC, and Mechanical Room	Class II	Category II - Non-Friable	50 SF (5 Each)	5	\$400.00	\$2,000.00
CC	Heat Shield	Gray, Round Light	Foyers to West Central Restrooms, North Central Lobby	Class II	Friable (RACM when Removed)	3 SF	3	\$50.00	\$150.00
EE	Mastic	Gray & Black, Roof	Roof	Class II	Category I - Non-Friable	30 SF	30	\$20.00	\$600.00
FF	Mastic	Gray, Expansion Joints	Exterior Walls Near West Central Entrance and Mechanical Room	Class II	Category I - Non-Friable	4 SF (24 LF)	24	\$7.00	\$168.00
GG	Sealant	Tan & Gray, Window Frames & Seams	Exterior Window Frames and East and West Wall Seams	Class II	Category I - Non-Friable	75 SF (850 LF)	850	\$7.00	\$5,950.00
MM	Sealant	Tan, Door Frame	Exterior Door Frames	Class II	Category I - Non-Friable	20 SF (240 LF)	240	\$7.00	\$1,680.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	240	\$3.75	\$900.00
Batteries: Exit Signs	Universal Waste	2	\$25.00	\$50.00
Thermostat Triggers	Universal Waste	2	\$25.00	\$50.00
Light Fixture Ballasts	Polychlorinated Biphenyls	121	\$17.50	\$2,117.50
Water Coolers/Fountains	Ozone Depleting Chemicals	1	\$250.00	\$250.00

TOTAL \$67,190.50

**AD4438
COST ESTIMATE**

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 5 workers per 8 hour shift	5	\$1,300.00	\$6,500.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
VFT (F, G & L)	Vinyl Floor Tile	9" Green, Brown, and Black	Throughout Except North Central Storage Rooms and Projection Booth	Class II	Category I - Non-Friable	4,500 SF	4500	\$2.25	\$10,125.00
H	Cement Pipe	6" OD, Gray	Attic Space to Roof: Above Projection Booths, and HVAC	Class II	Category II- Non-Friable	40 SF (4 Each)	4	\$400.00	\$1,600.00
K	Flex Connector	White, HVAC	HVAC Units	Class II	Friable (RACM when Removed)	12 SF (4 Each)	4	\$50.00	\$200.00
M	Putty	Gray, Window	Exterior Windows	Class II	Category II- Non-Friable	630 SF (26 Windows)	630	\$6.50	\$4,095.00
O	Mastic	Gray & Black, Penetrations	Roof	Class II	Category I - Non-Friable	20 SF	20	\$20.00	\$400.00
R	Insulation	White, Fire Door	Lobby into Projection Booths	Class II	Friable (RACM when Removed)	62 SF (4 Each)	4	\$200.00	\$800.00
Z	Vinyl Floor Tile/Mastic	9" Tan/Black	North West Storage, North East Office as Patching	Class II	Category I - Non-Friable	80 SF	80	\$2.25	\$180.00
AA	Sealant	Tan, Door Frame	Exterior Doors	Class II	Category I - Non-Friable	10 SF (126 LF)	126	\$5.00	\$630.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	104	\$3.75	\$390.00
Light Fixture Ballasts	Polychlorinated Biphenyls	51	\$17.50	\$892.50
Smoke Detectors	Low-Level Radiation	11	\$15.00	\$165.00
TOTAL				\$19,477.50

**AD4550
COST ESTIMATE**

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 3 workers per 8 hour shift	4	\$1,300.00	\$5,200.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
H	Cement Pipe	6" OD, Gray	Attic Space to Roof: Above Projection Booths, and HVAC	Class II	Category II- Non-Friable	40 SF (4 Each)	4	\$400.00	\$1,600.00
K	Flex Connector	White, HVAC	HVAC Units	Class II	Friable (RACM when Removed)	12 SF (4 Each)	4	\$50.00	\$200.00
M	Putty	Gray, Window	Exterior Windows	Class II	Category II- Non-Friable	630 SF (26 Windows)	630	\$6.50	\$4,095.00
O	Mastic	Gray & Black, Penetrations	Roof	Class II	Category I - Non-Friable	20 SF	20	\$20.00	\$400.00
R	Insulation	White, Fire Door	Lobby into Projection Booths	Class II	Friable (RACM when Removed)	62 SF (4 Each)	4	\$200.00	\$800.00
Y	Sealant	Tan, Door Frame	Exterior Doors	Class II	Category I - Non-Friable	10 SF (126 LF)	126	\$7.00	\$882.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	125	\$3.75	\$468.75
Light Fixture Ballasts	Polychlorinated Biphenyls	60	\$17.50	\$1,050.00
TOTAL				\$9,495.75

**AD4560
COST ESTIMATE**

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 5 workers per 8 hour shift	10	\$1,300.00	\$13,000.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
A	Wallboard/Joint Compound	White/White	Throughout Except Projection Booths	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	7,500 SF	7500	\$3.00	\$22,500.00
VFT (F, G & L)	Vinyl Floor Tile	9" Green, Brown, and Black	East Offices	Class II	Category I - Non-Friable	1,675 SF	1675	\$2.25	\$3,768.75
H	Cement Pipe	6" OD, Gray	Attic Space to Roof: Above Projection Booths, and HVAC	Class II	Category II- Non-Friable	40 SF (4 Each)	4	\$400.00	\$1,600.00
K	Flex Connector	White, HVAC	HVAC Units	Class II	Friable (RACM when Removed)	12 SF (4 Each)	4	\$50.00	\$200.00
M	Putty	Gray, Window	Exterior Windows	Class II	Category II- Non-Friable	630 SF (26 Windows)	630	\$6.50	\$4,095.00
O	Mastic	Gray & Black, Penetrations	Roof	Class II	Category I - Non-Friable	20 SF	20	\$20.00	\$400.00
R	Insulation	White, Fire Door	Lobby into Projection Booths	Class II	Friable (RACM when Removed)	62 SF (4 Each)	4	\$200.00	\$800.00
X	Sealant	Tan, Door Frame	Exterior Doors	Class II	Category I - Non-Friable	10 SF (126 LF)	126	\$7.00	\$882.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	128	\$3.75	\$480.00
Transformers	Polychlorinated Biphenyls	64	\$17.50	\$1,120.00

TOTAL \$35,845.75

**AR4450
COST ESTIMATE**

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 5 workers per 8 hour shift	10	\$1,300.00	\$13,000.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
VFT/M (C, Y, Z, and AA)	Vinyl Floor Tile/Mastic	9" Beige and Black, 12" White/Black	Throughout East Office Areas, Except Restroom; North West Shop Area. This material may be under walls.	Class II	Category I - Non-Friable	4,600 SF	4600	\$2.25	\$10,350.00
G	Heat Shield	Gray, Light	Lobby, Room West of Lobby, Restroom and Restroom Foyer	Class II	Friable (RACM when Removed)	25 SF (25 Each)	25	\$20.00	\$500.00
K	Putty	White, Metal Windows	West Windows	Class II	Category II- Non-Friable	320 SF (20 Windows)	320	\$6.50	\$2,080.00
L	Glazing	White, Aluminum Windows	East Windows	Class II	Category II- Non-Friable	420 SF (15 Windows)	420	\$6.50	\$2,730.00
M	Cement Panel	Gray, Under Windows	East Windows (Inside Metal)	Class II	Category II- Non-Friable	180 SF (15 Each)	180	\$10.00	\$1,800.00
O	Cement Pipe	21" O.D, Gray	Mechanical Room to Roof	Class II	Category II- Non-Friable	10 LF	10	\$600.00	\$6,000.00
V	Mastic	Gray & Black, Pipe Penetrations	Roof	Class II	Category I - Non-Friable	2 SF	2	\$20.00	\$40.00
EE	Wallboard/Joint Compound	White/White, Ceiling	Throughout West Office Areas Ceilings	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	4,000 SF	4000	\$3.00	\$12,000.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	410	\$3.75	\$1,537.50
Other Non-incandescent Lamps	Universal Waste	7	\$5.00	\$35.00
Light Fixture Ballasts	Polychlorinated Biphenyls	205	\$17.50	\$3,587.50
Water Coolers/Fountains	Ozone Depleting Chemicals	3	\$250.00	\$750.00
TOTAL				\$41,410.00

**AR4458
COST ESTIMATE**

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 5 workers per 8 hour shift	10	\$1,300.00	\$13,000.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
C	Vinyl Floor Tile/Mastic	9" Beige/Black	Throughout West Office Areas, Except Restroom; North East Warehouse Area	Class II	Category I - Non-Friable	4,100 SF	4100	\$2.25	\$9,225.00
G	Heat Shield	Gray, Light	Lobby, Room East of Lobby, Restroom and Restroom Foyer	Class II	Friable (RACM when Removed)	25 SF (25 Each)	25	\$20.00	\$500.00
I	Wallboard/Joint Compound	White/White, Ceiling	Throughout West Office Areas Ceilings	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	4,000 SF	4000	\$3.00	\$12,000.00
K	Putty	White, Metal Windows	East Windows	Class II	Category II- Non-Friable	320 SF (20 Windows)	320	\$6.50	\$2,080.00
L	Glazing	White, Aluminum Windows	West Windows	Class II	Category II- Non-Friable	420 SF (15 Windows)	450	\$6.50	\$2,925.00
M	Cement Panel	Gray, Under Windows	West Windows (Inside Metal)	Class II	Category II- Non-Friable	180 SF (15 Each)	180	\$10.00	\$1,800.00
O	Cement Pipe	21" O.D, Gray	Mechanical Room to Roof	Class II	Category II- Non-Friable	10 LF	10	\$250.00	\$2,500.00
S	Mudding	Gray, On Homogeneous "O"	Mechanical Room to Roof	Class II	Category I - Non-Friable	2 SF	2	\$20.00	\$40.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	410	\$3.75	\$1,537.50
Other Non-incandescent Lamps	Universal Waste	1	\$5.00	\$5.00
Electronic Waste (Appliances, Computers, Printers, Etc.)	Universal Waste	60	\$10.00	\$600.00
Light Fixture Ballasts	Polychlorinated Biphenyls	205	\$17.50	\$3,587.50
Water Coolers/Fountains	Ozone Depleting Chemicals	5	\$250.00	\$1,250.00
Refrigerators	Ozone Depleting Chemicals	5	\$250.00	\$1,250.00
TOTAL				\$39,300.00

**CF4453
COST ESTIMATE**

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 8 workers per 8 hour shift	10	\$1,300.00	\$13,000.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
D	Vinyl Floor Tile/Mastic/Vinyl Floor Tile/Float/Mastic	9" Maroon/Black/Black/White/Black	North East Storage Rooms and Office	Class II	Category I - Non-Friable	450 SF	450	\$2.25	\$1,012.50
G	Heat Shield	Gray, Light	Foyers to Locker Rooms and North East Foyer	Class II	Friable (RACM when Removed)	3 SF (3 Each)	3	\$20.00	\$60.00
I	Sealant	Gray, Pipe	Walk in Freezer and Adjacent North Compressor Room	Class II	Category I - Non-Friable	2 SF	2	\$7.00	\$14.00
J	Vinyl Floor Tile/Mastic	9" Beige/Black	Dining Room	Class II	Category I - Non-Friable	4,200 SF	4200	\$2.25	\$9,450.00
O	Insulation	White, Tank	Mechanical Room	Class I	Friable (RACM when Removed)	310 SF	310	\$20.00	\$6,200.00
P	Cement Pipe	Gray, 21" OD Boiler Exhaust	Mechanical Room	Class II	Category II- Non-Friable	12 LF	12	\$250.00	\$3,000.00
Q	Packing	White, HVAC	Mechanical Room Around Duct Wall Penetration	Class II	Friable (RACM when Removed)	2 SF (20 LF)	20	\$10.00	\$200.00
S	Sealant	Gray, Panel	Window Panels	Class II	Category I - Non-Friable	600 SF (Panels)	600	\$5.00	\$3,000.00
T	Cement Panel	Gray, Window	Window Panels Inside Metal	Class II	Category II- Non-Friable	600 SF	600	\$10.00	\$6,000.00
EE	Gasket	Black, Light	Kitchen and Dining Room Service areas Inside Exhaust Hoods	Class II	Category I - Non-Friable	25 SF (25 Each)	25	\$20.00	\$500.00
HH	Insulator	Black, Electrical Box	Mechanical Room Inside Electrical Boxes	Class II	Category II- Non-Friable	10 SF (20 Each)	20	\$15.00	\$300.00
JJ	Panel	White, Boiler	Mechanical Room Inside Boiler	Class I	Friable (RACM when Removed)	15 SF	15	\$10.00	\$150.00
MM	Mastic	Gray & Black, Roof	Roof - Penetrations, Patches and Seams	Class II	Category I - Non-Friable	125 SF	125	\$20.00	\$2,500.00
OO	Insulator Paper	Tan, Electrical Box	North Compressor Room	Class II	Category II - Non-Friable	2 SF	2	\$25.00	\$50.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	212	\$3.75	\$795.00
Other Non-Incandescent Lamps	Universal Waste	7	\$5.00	\$35.00
Thermostat Triggers	Universal Waste	3	\$25.00	\$75.00
Light Fixture Ballasts	Polychlorinated Biphenyls	110	\$17.50	\$1,925.00
Walk-in Refrigerator	Ozone Depleting Chemicals	2	\$2,000.00	\$4,000.00
Fire Suppression System	Chemicals - Halon	2	\$7,000.00	\$14,000.00
TOTAL				\$53,266.50

**G4480
COST ESTIMATE**

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 8 workers per 8 hour shift	10	\$1,300.00	\$13,000.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
VFT/M (F, G, H)	Vinyl Floor Tile/Mastic	9" Green and Blue, 12" Beige/Black	Offices, Adjacent Hallways, and Storage, and South Restroom Foyer	Class II	Category I - Non-Friable	800 SF	800	\$2.25	\$1,800.00
J	Wallboard/Joint Compound	White/White, Ceiling	North West Restroom, North Locker Room and Adjacent North East Room, Offices and Adjacent Hallways and Storage Rooms.	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	1,700 SF	1700	\$3.00	\$5,100.00
L	Insulation	White, Tank	Mechanical Room	Class I	Friable (RACM when Removed)	300 SF	300	\$15.00	\$4,500.00
M	Thermal System Insulation	8" OD, White, Fittings	Mechanical Room	Class I	Friable (RACM when Removed)	30 SF (30 Each)	30	\$50.00	\$1,500.00
N	Jacketing	White, Valves	Mechanical Room	Class I	Friable (RACM when Removed)	5 SF (5 Each)	5	\$20.00	\$100.00
Q	Cement Pipe	21" OD, Gray	Mechanical Room Through to Roof (8" O.D. Piece is on Floor)	Class II	Category II- Non-Friable	35 LF	35	\$250.00	\$8,750.00
R	Packing	White, Duct at Wall	Mechanical Room at Ducts Through Walls	Class II	Friable (RACM when Removed)	2 SF (24 LF)	24	\$10.00	\$240.00
T	Mastic	Gray, Boiler	Mechanical Room	Class II	Category I - Non-Friable	10 SF	10	\$10.00	\$100.00
W	Gasket	Black, Boiler Valve	Mechanical Room	Class II	Category I - Non-Friable	8 SF (2 Each)	2	\$20.00	\$40.00
X	Gasket	Gray, Exterior Valve	Exterior - South East	Class II	Category I - Non-Friable	2 SF (2 Each)	2	\$20.00	\$40.00
DD	Glazing	White, Window, Aluminum	Exterior - North, South and East Windows	Class II	Category II- Non-Friable	900 SF (Windows)	900	\$6.50	\$5,850.00
HH	Glazing	Off-White, Metal Window	Exterior - South Windows at Entrance to Lobby	Class II	Category II- Non-Friable	225 SF (Windows)	225	\$6.50	\$1,462.50
OO	Mastic	Gray & Black, Roof	Roof	Class II	Category I - Non-Friable	50 SF	50	\$20.00	\$1,000.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	506	\$3.75	\$1,897.50
Other Non-Incandescent Lamps	Universal Waste	6	\$5.00	\$30.00
Electronic Waste (Scoreboard, Copier, TV, Computers, Etc.)	Universal Waste	6	\$10.00	\$60.00
Light Fixture Ballasts	Polychlorinated Biphenyls	254	\$17.50	\$4,445.00
Air Compressors	Petroleum Products	2	\$250.00	\$500.00
Refrigerator	Ozone Depleting Chemicals	1	\$250.00	\$250.00

TOTAL \$37,665.00

**G4480A
COST ESTIMATE**

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 2 workers per 8 hour shift	1	\$1,300.00	\$1,300.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	TOTAL
A	Putty	White, Window	Exterior Window	Class II	Category II- Non-Friable	6 SF (1 Window)	1	\$1,500.00	\$1,500.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
No Other Hazardous Materials were Identified in this Building		

**HH4430
COST ESTIMATE**

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 30 workers per 8 hour shift. Ramp up to 15 men at beginning month 1, 30 men for months 2 to 4 and reduce to 15 men by the end month 5.	84	\$1,300.00	\$109,200.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
A	Paint/Skim Coat	White/White, Concrete	Throughout on Painted Formed Concrete Surfaces Including, but Not Limited to Walls, Columns and Ceilings. This material is behind newer CMU walls where they intersect with the concrete. This Material is not behind the Original Large Yellow Ceramic Wall Tiles. This Material is Damaged in Some Areas. Especially the 3rd Floor.	Unclassified (ACCM)	NA (Layer <1% by Point Count)	89,000 SF	89000	\$12.50	\$1,112,500.00
VFT/M (E, R, Y, Z)	Vinyl Floor Tile/Mastic	9" Black, Red, Tan and 12" Off-White/Black	Throughout Except Restrooms, Kitchen, Mechanical Rooms, Main Entrance Foyer, Basement Armories and Storage. This material is under newer CMU walls and under ceramic tiles located in bedrooms.	Class II	Category I - Non-Friable	29,750 SF	29750	\$2.25	\$66,937.50
J	Wallboard/Joint Compound	White/White	Head: North Offices, Handle: 1st Floor West Rooms	Unclassified (ACCM)	NA (Layer <1% by Point Count)	7,200 SF	7200	\$3.00	\$21,600.00
K	Texture Coat	White, Small	Head: North West Central Office; Handle: 1st Floor West Rooms	Unclassified (ACCM)	NA (Layer <1% by Point Count)	3,500 SF	3500	\$5.00	\$17,500.00
O	Cement Panel	Gray	Kitchen Entrance from Loading Dock and Main Entrance Foyer to Handle and Head.	Class II	Category II- Non-Friable	400 SF	400	\$5.00	\$2,000.00
TSI (P & Q)	Thermal System Insulation	4"-6" OD Pipe and Fittings	Basement Storage Areas, Mechanical Rooms and Crawlspace. Debris is Throughout the Crawlspace Soil to an Estimated Depth of 4". Vertical Risers to Radiators on 1st to 3rd Floors. Some insulation has been replaced with fiberglass, however residual material may still remain under replacement insulation and in wall and ceiling penetrations. This material is under metal jacketing in some areas.	Class I	Friable (RACM when Removed)	1,570 LF (3,319 CF/123 CY of Contaminated Soil)	1570	\$40.00	\$62,800.00

HH4430 COST ESTIMATE

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
LL	Jacketing	White, Tank	Boiler Room	Class I	Friable (RACM when Removed)	600 SF (2 Tanks)	600	\$5.00	\$3,000.00
QQ	Sealant/Expansion Joint	Tan/Brown, Wall & Window Seams	Throughout, Perimeter Wall Seams and Window Sill Seams	Class II	Category I - Non-Friable	100 SF (1,200 LF)	1200	\$6.50	\$7,800.00
SS	Sealant	Tan, Window Frames	Throughout, Metal Windows	Class II	Category I - Non-Friable	305 SF (3,660 LF)	3660	\$6.50	\$23,790.00
WW	Sealant	Black, Window Frame	Restroom, Aluminum Windows	Class II	Category I - Non-Friable	45 SF (540 LF)	540	\$6.50	\$3,510.00
YY	Insulation	White, Wire	Handle, Basement, Armory, North West of Distribution Counter :Electrical Box. May be inside additional electrical boxes.	Class II	Friable (RACM when Removed)	5 SF	5	\$25.00	\$125.00
ZZ	Insulator	Black, Electrical Box	Head, Basement,Transformer Vault: Electrical Box. May be inside additional electrical boxes.	Class II	Category II- Non-Friable	5 SF	5	\$15.00	\$75.00
E3	Mastic	Gray & Black, Patches, Penetrations & Seams	All Roofs - Patches, Penetrations and Seams	Class II	Category I - Non-Friable	75 SF	75	\$20.00	\$1,500.00
F3	Flex Connector	White, HVAC	Head Roof on HVAC	Class I	Friable (RACM when Removed)	5 SF	5	\$50.00	\$250.00
J3	Gasket	White, Round Tank	Basement Boiler Room - South Tank	Class II	Category I - Non-Friable	8 SF (2 Each)	2	\$50.00	\$100.00
M3	Insulation	White, Breech	Boiler Room	Class I	Friable (RACM when Removed)	3,000 SF	3000	\$15.00	\$45,000.00
V3	Glazing	Tan, Window, Interior	Kitchen Office Window	Class II	Category II - Non-Friable	100 SF (Windows)	100	\$6.50	\$650.00
W3	Gasket	Gray Valve, Exterior	Exterior - West Side of Head	Class II	Category I - Non-Friable	4 SF (4 Each)	4	\$50.00	\$200.00
X3	Insulation, Packings, Gaskets And Bricks	Various	Interior of Boiler. The interior of the boiler is inaccessible. All interior materials are assumed to be asbestos.	Class I and II	Friable (RACM when Removed) and Category I - Non-Friable	2,300 SF (3 Boilers)	2300	\$7.00	\$16,100.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	439	\$3.75	\$1,646.25
Other Non-incandescent Lamps	Universal Waste	7	\$5.00	\$35.00
Batteries: Emergency Lights & Exit Signs	Universal Waste	22	\$25.00	\$550.00
Thermostat Triggers: Boilers	Universal Waste	3	\$25.00	\$75.00
Transformers	Polychlorinated Biphenyls	1	\$1,500.00	\$1,500.00
Light Fixture Ballasts	Polychlorinated Biphenyls	233	\$17.50	\$4,077.50
Water Coolers/Fountains	Ozone Depleting Chemicals	2	\$250.00	\$500.00

TOTAL \$1,393,821.25

**HH4432
COST ESTIMATE**

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 30 workers per 8 hour shift. Ramp up to 15 men at beginning month 1, 30 men for months 2 to 4 and reduce to 15 men by the end month 5.	84	\$1,300.00	\$109,200.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
A	Paint/Skim Coat	White/White, Concrete	Throughout on Painted Formed Concrete Surfaces Including, but Not Limited to Walls, Columns and Ceilings. This material is behind newer CMU walls where they intersect with the concrete. This Material is not behind the Original Large Yellow Ceramic Wall Tiles. This Material is Damaged in Some Areas, Especially the 3rd Floor	Unclassified (ACCM)	NA (Layer <1% by Point Count)	89,000 SF	89000	\$12.50	\$1,112,500.00
VFT/M (E, M, R, S, Y, Z, HH, J3, M3 to S3)	Vinyl Floor Tile/Mastic	9" Black, Green, Tan, Light Blue, Dark Blue, Brown, Black with White, Black with Pink, Pink and 12" Light Brown, Off-White, Beige, Off-White with Gray, Gray/Black	Throughout Except Restrooms, Kitchen, Mechanical Rooms, Main Entrance Foyer, Basement Armories and Storage. This material is under newer CMU walls, a wooden stage in the head, and under ceramic tiles located in bedrooms.	Class II	Category I - Non-Friable	29,750 SF	29750	\$2.25	\$66,937.50
O	Cement Panel	Gray	Kitchen Entrance from Loading Dock and Main Entrance Foyer to Handle and Head.	Class II	Category II- Non-Friable	420 SF	420	\$5.00	\$2,100.00
TSI (P & Q)	Thermal System Insulation	4"-6" OD Pipe and Fittings	Basement Storage Areas, Mechanical Rooms and Crawlspace. Debris is Throughout the Crawlspace Soil to an Estimated Depth of 4". Vertical Risers to Radiators on 1st to 3rd Floors. Some insulation has been replaced with fiberglass, however residual material may still remain under replacement insulation and in wall and ceiling penetrations. This material is under metal jacketing in some areas.	Class I	Friable (RACM when Removed)	1,570 LF (3,319 CF/123 CY of Contaminated Soil)	1570	\$40.00	\$62,800.00
MM	Insulation	White, Fire Door	Stairwells, Basement and Boiler Room Entrance	Unclassified (ACCM)	Friable (RACM when Removed)	378 SF (18 Doors)	18	\$200.00	\$3,600.00
PP	Window Putty	White	Windows Except Restrooms	Class II	Category II- Non-Friable	8,200 SF (99 Windows)	8200	\$6.50	\$53,300.00
QQ	Sealant/Expansion Joint	Tan/Brown, Wall & Window Seams	Throughout, Perimeter Wall Seams and Window Sill Seams	Class II	Category I - Non-Friable	100 SF (1,200 LF)	1200	\$6.50	\$7,800.00
WW	Sealant	Black, Window Frame	Restroom, Aluminum Windows	Class II	Category I - Non-Friable	45 SF (540 LF)	540	\$6.50	\$3,510.00

**HH4432
COST ESTIMATE**

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
YY	Insulation	White, Wire	Handle, Basement, Armory, North West of Distribution Counter :Electrical Box. May be inside additional electrical boxes.	Class II	Friable (RACM when Removed)	5 SF	5	\$25.00	\$125.00
ZZ	Insulator	Black, Electrical Box	Head, Kitchen Entrance Electrical Box. May be inside additional electrical boxes.	Class II	Category II- Non-Friable	5 SF	5	\$15.00	\$75.00
E3	Mastic	Gray & Black, Patches, Penetrations & Seams	All Roofs - Patches, Penetrations and Seams	Class II	Category I - Non-Friable	65 SF	65	\$20.00	\$1,300.00
F3	Flex Connector	White, HVAC	Head Roof on HVAC	Class I	Friable (RACM when Removed)	5 SF	5	\$50.00	\$250.00
T3	Gasket	Gray & Black, Valves	Mechanical Room	Class II	Category I - Non-Friable	5 SF (2 Each)	2	\$50.00	\$100.00
U3	Glazing	Tan, Window, Interior	Kitchen Office Window	Class II	Category II - Non-Friable	100 SF (Windows)	100	\$6.50	\$650.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	439	\$3.75	\$1,646.25
Other Non-incandscnt Lamps	Universal Waste	7	\$5.00	\$35.00
Batteries: Emergency Lights & Exit Signs	Universal Waste	22	\$25.00	\$550.00
Light Fixture Ballasts	Polychlorinated Biphenyls	233	\$17.50	\$4,077.50
Transformers	Polychlorinated Biphenyls	1	\$1,500.00	\$1,500.00
TOTAL				\$1,322,856.25

**HH4434
COST ESTIMATE**

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 30 workers per 8 hour shift. Ramp up to 15 men at beginning month 1, 30 men for months 2 to 4 and reduce to 15 men by the end month 5.	84	\$1,300.00	\$109,200.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
A	Paint/Skim Coat	White/White, Concrete	Throughout on Painted Formed Concrete Surfaces Including, but Not Limited to Walls, Columns and Ceilings. This material is behind newer CMU walls where they intersect with the concrete. This Material is not behind the Original Large Yellow Ceramic Wall Tiles. This Material is Damaged in Some Areas, Especially the 3rd Floor.	Unclassified (ACCM)	NA (Layer <1% by Point Count)	89,000 SF	89000	\$12.50	\$1,112,500.00
VFT/M (E, M, R, S, Y, HH, II, J3 to M3)	Vinyl Floor Tile/Mastic	9" Black, Green, Dark Blue, Brown, Black with White, Black with Pink, Off-White and 12" Light Brown, Off-White, Beige, White with Gray, White with Black.Green/Black	Throughout Except Restrooms, Kitchen, Mechanical Rooms, Main Entrance Foyer, Basement Armories and Storage. This material is under newer CMU walls and under ceramic tiles located in bedrooms.	Class II	Category I - Non-Friable	29,750 SF	29750	\$2.25	\$66,937.50
O	Cement Panel	Gray	Kitchen Entrance from Loading Dock and Main Entrance Foyer to Handle and Head.	Class II	Category II- Non-Friable	420 SF	420	\$5.00	\$2,100.00
TSI (P & Q)	Thermal System Insulation	4"-6" OD Pipe and Fittings	Basement Storage Areas, Mechanical Rooms and Crawlspace. Debris is Throughout the Crawlspace Soil to an Estimated Depth of 4". Vertical Risers to Radiators on 1st to 3rd Floors. Some insulation has been replaced with fiberglass, however residual material may still remain under replacement insulation and in wall and ceiling penetrations. This material is under metal jacketing in some areas.	Class I	Friable (RACM when Removed)	1,570 LF (3,319 CF/123 CY of Contaminated Soil)	1570	\$40.00	\$62,800.00
MM	Insulation	White, Fire Door	Stairwells, Basement and Boiler Room Entrance	Unclassified (ACCM)	Friable (RACM when Removed)	378 SF (18 Doors)	18	\$200.00	\$3,600.00
PP	Window Putty	White	Windows Except Restrooms	Class II	Category II- Non-Friable	8,200 SF (99 Windows)	8200	\$6.50	\$53,300.00
QQ	Sealant/Expansion Joint	Tan/Brown, Wall & Window Seams	Throughout, Perimeter Wall Seams and Window Sill Seams	Class II	Category I - Non-Friable	100 SF (1,200 LF)	1200	\$6.50	\$7,800.00
SS	Sealant	Tan, Window Frames	Throughout, Metal Windows	Class II	Category I - Non-Friable	305 SF (3,660 LF)	3660	\$6.50	\$23,790.00
WW	Sealant	Black, Window Frame	Restroom, Aluminum Windows	Class II	Category I - Non-Friable	45 SF (540 LF)	540	\$6.50	\$3,510.00

HH4434 COST ESTIMATE

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
ZZ	Insulator	Black, Electrical Box	Handle, Basement, Armory, North West of Distribution Counter :Electrical Box. May be inside additional electrical boxes.	Class II	Category II- Non-Friable	5 SF	5	\$15.00	\$75.00
E3	Mastic	Gray & Black, Patches, Penetrations & Seams	All Roofs - Patches, Penetrations and Seams	Class II	Category I - Non-Friable	65 SF	65	\$20.00	\$1,300.00
F3	Flex Connector	White, HVAC	Head Roof on HVAC	Class I	Friable (RACM when Removed)	5 SF	5	\$50.00	\$250.00
P3	Glazing	Tan, Window, Interior	Kitchen Office Window	Class II	Category II - Non-Friable	100 SF (Windows)	100	\$6.50	\$650.00
Q3	Gasket	Black, Valves	Basement Mechanical Room	Class II	Category I - Non-Friable	7 SF	7	\$50.00	\$350.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	439	\$3.75	\$1,646.25
Other Non-incandscnt Lamps	Universal Waste	7	\$5.00	\$35.00
Batteries: Emergency Lights & Exit Signs	Universal Waste	22	\$25.00	\$550.00
Light Fixture Ballasts	Polychlorinated Biphenyls	233	\$17.50	\$4,077.50
Transformers	Polychlorinated Biphenyls	1	\$1,500.00	\$1,500.00

TOTAL \$1,346,771.25

HH4436 COST ESTIMATE

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 30 workers per 8 hour shift. Ramp up to 15 men at beginning month 1, 30 men for months 2 to 4 and reduce to 15 men by the end month 5.	84	\$1,300.00	\$109,200.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
A	Paint/Skim Coat	White/White, Concrete	Throughout on Painted Formed Concrete Surfaces Including, but Not Limited to Walls, Columns and Ceilings. This material is behind newer CMU walls where they intersect with the concrete. This Material is not behind the Original Large Yellow Ceramic Wall Tiles. This Material is Damaged in Some Areas, Especially the 3rd Floor.	Unclassified (ACCM)	NA (Layer <1% by Point Count)	89,000 SF	89000	\$12.50	\$1,112,500.00
VFT/M (E, L, M, R, S, Y, Z, HH, II, J3 to L3)	Vinyl Floor Tile/Mastic	9" Black with White, Brown, Green, Tan, Blue, Black with Pink and 12" Light Brown, Off-White, Beige, White, Green, Gray/Black	Throughout Except Restrooms, Kitchen, Mechanical Rooms, Main Entrance Foyer, Basement Armories and Some Storage. This material is under newer CMU walls and under ceramic tiles located in bedrooms.	Class II	Category I - Non-Friable	31,750 SF	31750	\$2.25	\$71,437.50
O	Cement Panel	Gray	Kitchen Entrance from Loading Dock and Main Entrance Foyer to Handle and Head.	Class II	Category II- Non-Friable	420 SF	420	\$5.00	\$2,100.00
TSI (P & Q)	Thermal System Insulation	4"-6" OD Pipe and Fittings	Basement Storage Areas, Mechanical Rooms and Crawlspace. Debris is Throughout the Crawlspace Soil to an Estimated Depth of 4". Vertical Risers to Radiators on 1st to 3rd Floors. Some insulation has been replaced with fiberglass, however residual material may still remain under replacement insulation and in wall and ceiling penetrations. This material is under metal jacketing in some areas.	Class I	Friable (RACM when Removed)	1,570 LF (3,319 CF/123 CY of Contaminated Soil)	1570	\$40.00	\$62,800.00
MM	Insulation	White, Fire Door	Stairwells, Basement and Boiler Room Entrance	Unclassified (ACCM)	Friable (RACM when Removed)	378 SF (18 Doors)	18	\$200.00	\$3,600.00
PP	Window Putty	White	Windows Except Restrooms	Class II	Category II- Non-Friable	8,200 SF (99 Windows)	8200	\$6.50	\$53,300.00
QQ	Sealant/Expansion Joint	Tan/Brown, Wall & Window Seams	Throughout, Perimeter Wall Seams and Window Sill Seams	Class II	Category I - Non-Friable	100 SF (1,200 LF)	1200	\$6.50	\$7,800.00
SS	Sealant	Tan, Window Frames	Throughout, Metal Windows	Class II	Category I - Non-Friable	305 SF (3,660 LF)	3660	\$6.50	\$23,790.00
WW	Sealant	Black, Window Frame	Restroom, Aluminum Windows	Class II	Category I - Non-Friable	45 SF (540 LF)	540	\$6.50	\$3,510.00

HH4436 COST ESTIMATE

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
YY	Insulation	White, Wire	Handle, Basement, Armory, North West of Distribution Counter: Electrical Box. May be inside additional electrical boxes.	Class II	Friable (RACM when Removed)	5 SF	5	\$25.00	\$125.00
ZZ	Insulator	Black, Electrical Box	Basement Mechanical Room	Class II	Category II- Non-Friable	5 SF	5	\$15.00	\$75.00
E3	Mastic	Gray & Black, Patches, Penetrations & Seams	All Roofs - Patches, Penetrations and Seams	Class II	Category I - Non-Friable	65 SF	65	\$20.00	\$1,300.00
F3	Flex Connector	White, HVAC	Head Roof on HVAC	Class I	Friable (RACM when Removed)	5 SF	5	\$50.00	\$250.00
P3	Gasket	Black, Tank Valve	Basement Mechanical Room	Class II	Category I - Non-Friable	6 SF (2 Each)	2	\$50.00	\$100.00
R3	Gasket	Gray , Exterior Valve	Exterior, South East Corner of Handle	Class II	Category I - Non-Friable	7 SF (3 Each)	3	\$50.00	\$150.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	444	\$3.75	\$1,665.00
Other Non-incandscnt Lamps	Universal Waste	7	\$5.00	\$35.00
Batteries: Emergency Lights & Exit Signs	Universal Waste	22	\$25.00	\$550.00
Light Fixture Ballasts	Polychlorinated Biphenyls	238	\$17.50	\$4,165.00
Transformers	Polychlorinated Biphenyls	1	\$1,500.00	\$1,500.00
TOTAL				\$1,350,752.50

HH4440 COST ESTIMATE

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 30 workers per 8 hour shift. Ramp up to 15 men at beginning month 1, 30 men for months 2 to 4 and reduce to 15 men by the end month 5.	84	\$1,300.00	\$109,200.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
A	Paint/Skim Coat	White/White, Concrete	Throughout on Painted Formed Concrete Surfaces Including, but Not Limited to Walls, Columns and Ceilings. This material is behind newer CMU walls where they intersect with the concrete. This Material is not behind the Original Large Yellow Ceramic Wall Tiles. This Material is Damaged in Some Areas. Especially the 3rd Floor.	Unclassified (ACCM)	NA (Layer <1% by Point Count)	89,000 SF	89000	\$12.50	\$1,112,500.00
VFT/M (E, M, R, S, Y, Z, HH)	Vinyl Floor Tile/Mastic	9" Black, Green, Maroon, Blue and 12" Light Brown, Off-White, Beige/Black	Throughout Except Restrooms, Kitchen, Mechanical Rooms, Main Entrance Foyer, Basement Armories and Storage. This material is under newer CMU walls and under ceramic tiles located in bedrooms.	Class II	Category I - Non-Friable	29,750 SF	29750	\$2.25	\$66,937.50
O	Cement Panel	Gray	Kitchen Entrance from Loading Dock and Main Entrance Foyer to Handle and Head.	Class II	Category II- Non-Friable	420 SF	420	\$5.00	\$2,100.00
TSI (P & Q)	Thermal System Insulation	4"-6" OD Pipe and Fittings	Basement Storage Areas, Mechanical Rooms and Crawlspace. Debris is Throughout the Crawlspace Soil to an Estimated Depth of 4". Vertical Risers to Radiators on 1st to 3rd Floors. Some insulation has been replaced with fiberglass, however residual material may still remain under replacement insulation and in wall and ceiling penetrations. This material is under metal jacketing in some areas.	Class I	Friable (RACM when Removed)	1,570 LF (3,319 CF/123 CY of Contaminated Soil)	1570	\$40.00	\$62,800.00
LL	Jacketing	White, Tank	Boiler Room	Class I	Friable (RACM when Removed)	600 SF (2 Tanks)	600	\$5.00	\$3,000.00
MM	Insulation	White, Fire Door	Stairwells, Basement and Boiler Room Entrance	Unclassified (ACCM)	Friable (RACM when Removed)	378 SF (18 Doors)	18	\$200.00	\$3,600.00

HH4440 COST ESTIMATE

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
PP	Window Putty	White	Windows Except Restrooms	Class II	Category II- Non-Friable	8,200 SF (99 Windows)	8200	\$6.50	\$53,300.00
QQ	Sealant/Expansion Joint	Tan/Brown, Wall & Window Seams	Throughout, Perimeter Wall Seams and Window Sill Seams	Class II	Category I - Non-Friable	100 SF (1,200 LF)	1200	\$6.50	\$7,800.00
SS	Sealant	Tan, Window Frames	Throughout, Metal Windows	Class II	Category I - Non-Friable	305 SF (3,660 LF)	3660	\$6.50	\$23,790.00
ZZ	Insulator	Black, Electrical Box	Head, Boiler Room North West and Kitchen North East Room Electrical Boxes. May be inside additional electrical boxes.	Class II	Category II- Non-Friable	10 SF	10	\$15.00	\$150.00
E3	Mastic	Gray & Black, Patches, Penetrations & Seams	All Roofs - Patches, Penetrations and Seams	Class II	Category I - Non-Friable	65 SF	65	\$20.00	\$1,300.00
F3	Flex Connector	White, HVAC	Head Roof on HVAC	Class I	Friable (RACM when Removed)	5 SF	5	\$50.00	\$250.00
I3	Gasket	White, Round Tank	Basement Boiler Room - South Tank	Class II	Category I - Non-Friable	8 SF (2 Each)	2	\$50.00	\$100.00
N3	Insulation	White, Breech	Boiler Room	Class I	Friable (RACM when Removed)	3,000 SF	3000	\$15.00	\$45,000.00
R3	Insulator Board	Black, Electrical Box	Boiler Room North East Electrical Box. May be inside additional electrical boxes.	Class II	Category II - Non-Friable	2 SF (1 Each)	1	\$100.00	\$100.00
X3	Glazing	Tan, Window, Interior	Kitchen Office Window	Class II	Category II - Non-Friable	100 SF (Windows)	100	\$6.50	\$650.00
Y3	Insulation, Packings, Gaskets And Bricks	Various	Interior of Boiler. The interior of the boiler is inaccessible. All interior materials are assumed to be asbestos.	Class I and II	Friable (RACM when Removed) and Category I - Non-Friable	2,300 SF (3 Boilers)	2300	\$7.00	\$16,100.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	430	\$3.75	\$1,612.50
Other Non-incandescent Lamps	Universal Waste	7	\$5.00	\$35.00
Batteries: Emergency Lights & Exit Signs	Universal Waste	22	\$25.00	\$550.00
Thermostat Triggers: Boilers	Universal Waste	3	\$25.00	\$75.00
Transformers	Polychlorinated Biphenyls	1	\$1,500.00	\$1,500.00
Light Fixture Ballasts	Polychlorinated Biphenyls	215	\$17.50	\$3,762.50
Water Coolers/Fountains	Ozone Depleting Chemicals	2	\$250.00	\$500.00
Smoke Detectors	Low-level Radiation	60	\$15.00	\$900.00

TOTAL \$1,408,412.50

HH4442
COST ESTIMATE

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 30 workers per 8 hour shift. Ramp up to 15 men at beginning month 1, 30 men for months 2 to 4 and reduce to 15 men by the end month 5.	84	\$1,300.00	\$109,200.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
A	Paint/Skim Coat	White/White, Concrete	Throughout on Painted Formed Concrete Surfaces Including, but Not Limited to Walls, Columns and Ceilings. This material is behind newer CMU walls where they intersect with the concrete. This Material is not behind the Original Large Yellow Ceramic Wall Tiles. This Material is Damaged in Some Areas, Especially the 3rd Floor.	Unclassified (ACCM)	NA (Layer <1% by Point Count)	89,000 SF	89000	\$12.50	\$1,112,500.00
VFT/M (E, M, R, S, U, Y, Z, HH,)	Vinyl Floor Tile/Mastic	9" Black, Beige, Green, Brown, Red, Blue and 12" Off-White, Beige/Black	Throughout Except Restrooms, Kitchen, Mechanical Rooms, Main Entrance Foyer, Basement Armories and Some Storage. This material is under newer CMU walls and under ceramic tiles located in bedrooms. Bags of Tile Debris were Identified outside the Main Entrance.	Class II	Category I - Non-Friable	30,150 SF	30150	\$2.25	\$67,837.50
F	Mortar/Grout	White/Gray, Brown 2" Ceramic Floor Tile	Handle Core Restrooms and Head Kitchen Restroom	Class II	Category II- Non-Friable	2,425 SF	2425	\$6.50	\$15,762.50
J	Wallboard/Joint Compound	White/White	Head: South Offices, Handle: 1st Floor East Rooms	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	6,950 SF	6950	\$3.00	\$20,850.00
O	Cement Panel	Gray	Kitchen Entrance from Loading Dock and Main Entrance Foyer to Handle and Head.	Class II	Category II- Non-Friable	420 SF	420	\$5.00	\$2,100.00
TSI (P & Q)	Thermal System Insulation	4"-6" OD Pipe and Fittings	Basement Storage Areas, Mechanical Rooms and Crawlspace. Debris is Throughout the Crawlspace Soil to an Estimated Depth of 4". Vertical Risers to Radiators on 1st to 3rd Floors. Some insulation has been replaced with fiberglass, however residual material may still remain under replacement insulation and in wall and ceiling penetrations. This material is under metal jacketing in some areas.	Class I	Friable (RACM when Removed)	1,570 LF (3,319 CF/123 CY of Contaminated Soil)	1570	\$40.00	\$62,800.00
MM	Insulation	White, Fire Door	Stairwells, Basement and Boiler Room Entrance	Unclassified (ACCM)	Friable (RACM when Removed)	378 SF (18 Doors)	18	\$200.00	\$3,600.00
PP	Window Putty	White	Windows Except Restrooms	Class II	Category II- Non-Friable	8,200 SF (99 Windows)	8200	\$6.50	\$53,300.00
QQ	Sealant/Expansion Joint	Tan/Brown, Wall & Window Seams	Throughout, Perimeter Wall Seams and Window Sill Seams	Class II	Category I - Non-Friable	100 SF (1,200 LF)	1200	\$6.50	\$7,800.00

**HH4442
COST ESTIMATE**

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
SS	Sealant	Tan, Window Frames	Throughout, Metal Windows	Class II	Category I - Non-Friable	305 SF (3,660 LF)	3660	\$6.50	\$23,790.00
XX	Gasket	Black, Light	Handle Core Restrooms	Class II	Category I - Non-Friable	15 SF (15 Each)	15	\$50.00	\$750.00
ZZ	Insulator	Black, Electrical Box	Head, Kitchen Entrance Electrical Box. May be inside additional electrical boxes.	Class II	Category II- Non-Friable	5 SF	5	\$15.00	\$75.00
E3	Mastic	Gray & Black, Patches, Penetrations & Seams	All Roofs - Patches, Penetrations and Seams	Class II	Category I - Non-Friable	70 SF	70	\$20.00	\$1,400.00
F3	Flex Connector	White, HVAC	Head Roof on HVAC	Class I	Friable (RACM when Removed)	5 SF	5	\$50.00	\$250.00
O3	Glazing	Tan, Window, Interior	Kitchen Office Window	Class II	Category II - Non-Friable	100 SF (Windows)	100	\$6.50	\$650.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	439	\$3.75	\$1,646.25
Other Non-incandescent Lamps	Universal Waste	7	\$5.00	\$35.00
Batteries: Emergency Lights & Exit Signs	Universal Waste	22	\$25.00	\$550.00
Thermostat Triggers	Universal Waste	1	\$25.00	\$25.00
Transformers	Polychlorinated Biphenyls	1	\$1,500.00	\$1,500.00
Light Fixture Ballasts	Polychlorinated Biphenyls	233	\$17.50	\$4,077.50
Water Coolers/Fountains	Ozone Depleting Chemicals	2	\$250.00	\$500.00
Smoke Detectors	Low Level Radiation	40	\$15.00	\$600.00

TOTAL \$1,382,398.75

HH4444 COST ESTIMATE

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 30 workers per 8 hour shift. Ramp up to 15 men at beginning month 1, 30 men for months 2 to 4 and reduce to 15 men by the end month 5.	84	\$1,300.00	\$109,200.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
A	Paint/Skim Coat	White/White, Concrete	Throughout on Painted Formed Concrete Surfaces Including, but Not Limited to Walls, Columns and Ceilings. This material is behind newer CMU walls where they intersect with the concrete. This Material is not behind the Original Large Yellow Ceramic Wall Tiles. This Material is Damaged in Some Areas, Especially the 3rd Floor.	Unclassified (ACCM)	NA (Layer <1% by Point Count)	89,000 SF	89000	\$12.50	\$1,112,500.00
VFT/M (E, M, R, S, Y, J3)	Vinyl Floor Tile/Mastic	9" Black, Green, Tan, Dark Blue, and 12" Off-White, Black/Black	Throughout Except Restrooms, Kitchen, Mechanical Rooms, Main Entrance Foyer, Basement Armories. This material is under newer CMU walls and under ceramic tiles located in bedrooms. Bags of Tile Debris were Identified outside the Main Entrance.	Class II	Category I - Non-Friable	31,150 SF	31150	\$2.25	\$70,087.50
J	Wallboard/Joint Compound	White/White	Head: North Offices, Handle: 1st Floor West Rooms and Basement Storage	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	9,352 SF	9352	\$3.00	\$28,056.00
O	Cement Panel	Gray	Kitchen Entrance from Loading Dock and Main Entrance Foyer to Handle and Head.	Class II	Category II- Non-Friable	420 SF	420	\$5.00	\$2,100.00
TSI (P & Q)	Thermal System Insulation	4"-6" OD Pipe and Fittings	Basement Storage Areas, Mechanical Rooms and Crawlspace. Debris is Throughout the Crawlspace Soil to an Estimated Depth of 4". Vertical Risers to Radiators on 1st to 3rd Floors. Some insulation has been replaced with fiberglass, however residual material may still remain under replacement insulation and in wall and ceiling penetrations. This material is under metal jacketing in some areas.	Class I	Friable (RACM when Removed)	1,570 LF (3,319 CF/123 CY of Contaminated Soil)	1570	\$40.00	\$62,800.00
MM	Insulation	White, Fire Door	Stairwells, Basement and Boiler Room Entrance	Unclassified (ACCM)	Friable (RACM when Removed)	378 SF (18 Doors)	18	\$200.00	\$3,600.00
QQ	Sealant/Expansion Joint	Tan/Brown, Wall & Window Seams	Throughout, Perimeter Wall Seams and Window Sill Seams	Class II	Category I - Non-Friable	100 SF (1,200 LF)	1200	\$6.50	\$7,800.00
SS	Sealant	Tan, Window Frames	Throughout, Metal Windows	Class II	Category I - Non-Friable	305 SF (3,660 LF)	3660	\$6.50	\$23,790.00
XX	Gasket	Black, Light	Handle Core Restrooms	Class II	Category I - Non-Friable	15 SF (15 Each)	15	\$50.00	\$750.00
ZZ	Insulator	Black, Electrical Box	Head, Kitchen Entrance Electrical Box. May be inside additional electrical boxes.	Class II	Category II- Non-Friable	5 SF	5	\$15.00	\$75.00

HH4444 COST ESTIMATE

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
E3	Mastic	Gray & Black, Patches, Penetrations & Seams	All Roofs - Patches, Penetrations and Seams	Class II	Category I - Non-Friable	70 SF	70	\$20.00	\$1,400.00
F3	Flex Connector	White, HVAC	Head Roof on HVAC	Class I	Friable (RACM when Removed)	5 SF	5	\$50.00	\$250.00
M3	Glazing	Tan, Window, Interior	Kitchen Office Window	Class II	Category II - Non-Friable	100 SF (Windows)	100	\$6.50	\$650.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	418	\$3.75	\$1,567.50
Other Non-incandescent Lamps	Universal Waste	7	\$5.00	\$35.00
Batteries: Emergency Lights & Exit Signs	Universal Waste	22	\$25.00	\$550.00
Transformers	Polychlorinated Biphenyls	1	\$1,500.00	\$1,500.00
Light Fixture Ballasts	Polychlorinated Biphenyls	210	\$17.50	\$3,675.00
Water Coolers/Fountains	Ozone Depleting Chemicals	2	\$250.00	\$500.00
Smoke Detectors	Low Level Radiation	35	\$15.00	\$525.00
TOTAL				\$1,322,211.00

HH4446 COST ESTIMATE

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 30 workers per 8 hour shift. Ramp up to 15 men at beginning month 1, 30 men for months 2 to 4 and reduce to 15 men by the end month 5.	84	\$1,300.00	\$109,200.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
A	Paint/Skim Coat	White/White, Concrete	Throughout on Painted Formed Concrete Surfaces Including, but Not Limited to Walls, Columns and Ceilings. This material is behind newer CMU walls where they intersect with the concrete. This Material is not behind the Original Large Yellow Ceramic Wall Tiles. This Material is Damaged in Some Areas, Especially the 3rd Floor.	Unclassified (ACCM)	NA (Layer <1% by Point Count)	89,000 SF	89000	\$12.50	\$1,112,500.00
VFT/M (E, M, R, S, Y, Z, HH, II, OO)	Vinyl Floor Tile/Mastic	9" Black, Green, White, Brown, Blue and 12" Light Brown, Off-White, Beige, White/Black	Throughout Except Restrooms, Kitchen, Mechanical Rooms, Main Entrance Foyer, Basement Armories and Storage. This material is under newer CMU walls and under ceramic tiles located in bedrooms. Bags of Tile Debris were Identified outside the Main Entrance.	Class II	Category I - Non-Friable	30,150 SF	30150	\$2.25	\$67,837.50
O	Cement Panel	Gray	Kitchen Entrance from Loading Dock and Main Entrance Foyer to Handle and Head.	Class II	Category II- Non-Friable	420 SF	420	\$5.00	\$2,100.00
TSI (P & Q)	Thermal System Insulation	4"-6" OD Pipe and Fittings	Basement Storage Areas, Mechanical Rooms and Crawlspace. Debris is Throughout the Crawlspace Soil to an Estimated Depth of 4". Vertical Risers to Radiators on 1st to 3rd Floors. Some insulation has been replaced with fiberglass, however residual material may still remain under replacement insulation and in wall and ceiling penetrations. This material is under metal jacketing in some areas.	Class I	Friable (RACM when Removed)	1,570 LF (3,319 CF/123 CY of Contaminated Soil)	1570	\$40.00	\$62,800.00
U	Sealant	Brown, Pipe	1st Floor Corridor Above Drop Ceiling - Pipe Penetrations through Walls	Class II	Category I - Non-Friable	10 SF	10	\$7.00	\$70.00
MM	Insulation	White, Fire Door	Stairwells, Basement and Boiler Room Entrance	Unclassified (ACCM)	Friable (RACM when Removed)	378 SF (18 Doors)	18	\$200.00	\$3,600.00
PP	Window Putty	White	Windows Except Restrooms	Class II	Category II- Non-Friable	8,200 SF (99 Windows)	8200	\$6.50	\$53,300.00
QQ	Sealant/Expansion Joint	Tan/Brown, Wall & Window Seams	Throughout, Perimeter Wall Seams and Window Sill Seams	Class II	Category I - Non-Friable	100 SF (1,200 LF)	1200	\$6.50	\$7,800.00
SS	Sealant	Tan, Window Frames	Throughout, Metal Windows	Class II	Category I - Non-Friable	305 SF (3,660 LF)	3660	\$6.50	\$23,790.00
ZZ	Insulator	Black, Electrical Box	Head, Kitchen Entrance Electrical Box. May be inside additional electrical boxes.	Class II	Category II- Non-Friable	5 SF	5	\$15.00	\$75.00
E3	Mastic	Gray & Black, Patches, Penetrations & Seams	All Roofs - Patches, Penetrations and Seams	Class II	Category I - Non-Friable	70 SF	70	\$20.00	\$1,400.00
F3	Flex Connector	White, HVAC	Head Roof on HVAC	Class I	Friable (RACM when Removed)	5 SF	5	\$50.00	\$250.00
I3	Gasket	White, Round Tank	Basement Mechanical Room	Class II	Category I - Non-Friable	8 SF (2 Each)	2	\$50.00	\$100.00

HH4446 COST ESTIMATE

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
J3	Glazing	Tan, Window, Interior	Kitchen Office Window	Class II	Category II - Non-Friable	100 SF (Windows)	100	\$6.50	\$650.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	439	\$3.75	\$1,646.25
Other Non-incandescent Lamps	Universal Waste	7	\$5.00	\$35.00
Batteries: Emergency Lights & Exit Signs	Universal Waste	22	\$25.00	\$550.00
Transformers	Polychlorinated Biphenyls	1	\$1,500.00	\$1,500.00
Light Fixture Ballasts	Polychlorinated Biphenyls	233	\$17.50	\$4,077.50
Water Coolers/Fountains	Ozone Depleting Chemicals	2	\$250.00	\$500.00
Exterior Refrigerant Canisters	Ozone Depleting Chemicals	1	\$250.00	\$250.00
Fire Suppression System	Chemicals - Halon	3	\$7,000.00	\$21,000.00
TOTAL				\$1,365,831.25

**RP4451
COST ESTIMATE**

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 10 workers per 8 hour shift	20	\$1,300.00	\$26,000.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
VFT/M (C, D, J, T, U, G3 and I3)	Vinyl Floor Tile/Mastic	9" Gray, Black, Green, Brown, Tan and 12" White, Brown/Black	Throughout Except Basement Mechanical Room, Restrooms, East Stairwell, Laundry Rooms except 1st Floor East, Storage Rooms and Janitor's Closets	Class II	Category I - Non-Friable	34,000 SF	34000	\$2.25	\$76,500.00
X	Sealant	Gray, Exterior Door Frames, Window Frames & Seams	Exterior Door Frames, Window Frames & Seams	Class II	Category I - Non-Friable	260 SF (3,120 LF)	3120	\$6.50	\$20,280.00
Y	Glazing	Tan, Window	Windows	Class II	Category I - Non-Friable	4,750 SF (118 Windows)	4750	\$6.50	\$30,875.00
FF	Insulator	Black, Electrical Box Board	Exterior South Central	Class II	Category II- Non-Friable	2 SF	2	\$15.00	\$30.00
HH	Cement Pipe	21" OD, Gray	Basement Mechanical Room through Pipe Chase in North West Storage Room to Roof	Class II	Category II- Non-Friable	50 LF	50	\$250.00	\$12,500.00
KK	Jacketing	White, Valves	Basement Mechanical Room	Class I	Friable (RACM when Removed)	10 SF (10 Each)	10	\$20.00	\$200.00
NN	Insulator	Black, Electrical Box	Basement Mechanical Room	Class II	Category II- Non-Friable	10 SF	10	\$15.00	\$150.00
TT	Mastic	Gray & Black, Penetrations & Seams	Roof	Class II	Category I - Non-Friable	40 SF	40	\$20.00	\$800.00
VV	Sealant	White, Cement Exhaust	Roof on "HH"	Class II	Category I - Non-Friable	2 SF	2	\$50.00	\$100.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	418	\$3.75	\$1,567.50
Other Non-incandescent Lamps	Universal Waste	4	\$5.00	\$20.00
Batteries: Exit Signs	Universal Waste	9	\$25.00	\$225.00
Light Fixture Ballasts	Polychlorinated Biphenyls	233	\$17.50	\$4,077.50
Water Coolers/Fountains	Ozone Depleting Chemicals	1	\$250.00	\$250.00

TOTAL \$147,575.00

**RP4452
COST ESTIMATE**

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 10 workers per 8 hour shift	17	\$1,300.00	\$22,100.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
VFT/M (C, D, J, T, U)	Vinyl Floor Tile/Mastic	9" Beige, Black, Green, Brown, Tan/Black	Throughout Except Basement Mechanical Room, Restrooms, East Stairwell, Laundry Rooms except 1st Floor East, Storage Rooms and Janitor's Closets	Class II	Category I - Non-Friable	33,750 SF	33750	\$2.25	\$75,937.50
X	Sealant	Gray, Exterior Door Frames, Window Frames & Seams	Exterior Door Frames, Window Frames & Seams	Class II	Category I - Non-Friable	260 SF (3,120 LF)	3120	\$6.50	\$20,280.00
EE	Sealant	Gray, Expansion Joint	Exterior - North Side at Junction of Larger Central Portion of the Building and the East and West Smaller Sections	Class II	Category I - Non-Friable	15 SF (80 LF)	80	\$6.50	\$520.00
FF	Insulator	Black, Electrical Box Board	Exterior South Central	Class II	Category II- Non-Friable	2 SF	2	\$15.00	\$30.00
HH	Cement Pipe	21" OD, Gray	Basement Mechanical Room through Pipe Chase in North West Storage Room to Roof	Class II	Category II- Non-Friable	50 LF	50	\$250.00	\$12,500.00
II	Insulation	White, Tank	Basement Mechanical Room	Class I	Friable (RACM when Removed)	300 SF	300	\$20.00	\$6,000.00
KK	Jacketing	White, Valves	Basement Mechanical Room	Class I	Friable (RACM when Removed)	10 SF (10 Each)	10	\$20.00	\$200.00
NN	Insulator	Black, Electrical Box	Basement Mechanical Room	Class II	Category II- Non-Friable	10 SF	10	\$15.00	\$150.00
TT	Mastic	Gray & Black, Penetrations & Seams	Roof	Class II	Category I - Non-Friable	40 SF	40	\$20.00	\$800.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	473	\$3.75	\$1,773.75
Other Non-incandescent Lamps	Universal Waste	9	\$5.00	\$45.00
Batteries: Exit Signs	Universal Waste	8	\$25.00	\$200.00
Light Fixture Ballasts	Polychlorinated Biphenyls	252	\$17.50	\$4,410.00
Water Coolers/Fountains	Ozone Depleting Chemicals	3	\$250.00	\$750.00
TOTAL				\$123,596.25

**RP4454
COST ESTIMATE**

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 10 workers per 8 hour shift	17	\$1,300.00	\$22,100.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
VFT/M (C, D, T, U)	Vinyl Floor Tile/Mastic	9" Gray, Brown, Tan and 12" White/Black	Throughout Except Basement Mechanical Room, Restrooms, East Stairwell, Laundry Rooms except 1st Floor East, Storage Rooms and Janitor's Closets	Class II	Category I - Non-Friable	34,250 SF	34250	\$2.25	\$77,062.50
X	Sealant	Gray, Exterior Door Frames, Window Frames & Seams	Exterior Door Frames, Window Frames & Seams	Class II	Category I - Non-Friable	260 SF (3,120 LF)	3120	\$6.50	\$20,280.00
DD	Glazing	White, Windows on Doors, Exterior	Exterior Doors with Windows	Class II	Category I - Non-Friable	126 SF (6 Doors)	126	\$6.50	\$819.00
EE	Sealant	Gray, Expansion Joint	Exterior - North Side at Junction of Larger Central Portion of the Building and the East and West Smaller Sections	Class II	Category I - Non-Friable	15 SF (80 LF)	80	\$6.50	\$520.00
FF	Insulator	Black, Electrical Box Board	Exterior South Central	Class II	Category II- Non-Friable	2 SF	2	\$15.00	\$30.00
HH	Cement Pipe	21" OD, Gray	Basement Mechanical Room through Pipe Chase in North West Storage Room to Roof	Class II	Category II- Non-Friable	50 LF	50	\$250.00	\$12,500.00
II	Insulation	White, Tank	Basement Mechanical Room	Class I	Friable (RACM when Removed)	300 SF	300	\$20.00	\$6,000.00
KK	Jacketing	White, Valves	Basement Mechanical Room	Class I	Friable (RACM when Removed)	10 SF (10 Each)	10	\$20.00	\$200.00
NN	Insulator	Black, Electrical Box	Basement Mechanical Room	Class II	Category II- Non-Friable	10 SF	10	\$15.00	\$150.00
TT	Mastic	Gray & Black, Penetrations & Seams	Roof	Class II	Category I - Non-Friable	40 SF	40	\$20.00	\$800.00
E3	Glazing	White, Windows on Doors, Interior	Interior Stairwell Doors	Class II	Category I - Non-Friable	126 SF (6 Doors)	126	\$6.50	\$819.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	418	\$3.75	\$1,567.50
Other Non-incandscnt Lamps	Universal Waste	4	\$5.00	\$20.00
Batteries: Exit Signs	Universal Waste	9	\$25.00	\$225.00
Light Fixture Ballasts	Polychlorinated Biphenyls	209	\$17.50	\$3,657.50
Water Coolers/Fountains	Ozone Depleting Chemicals	3	\$250.00	\$750.00
TOTAL				\$125,400.50

**RP4456
COST ESTIMATE**

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 10 workers per 8 hour shift	17	\$1,300.00	\$22,100.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
VFT/M (C, D, U)	Vinyl Floor Tile/Mastic	9" Gray, Tan and 12" White/Black	Throughout Except Basement Mechanical Room, Restrooms, Stairwell, Laundry Rooms except 1st Floor, Storage Rooms and Janitor's Closets	Class II	Category I - Non-Friable	34,750 SF	34750	\$2.25	\$78,187.50
X	Sealant	Gray, Exterior Door Frames, Window Frames & Seams	Exterior Door Frames, Window Frames & Seams	Class II	Category I - Non-Friable	260 SF (3,120 LF)	3120	\$6.50	\$20,280.00
DD	Glazing	White, Windows on Doors, Exterior	Exterior Doors with Windows	Class II	Category I - Non-Friable	126 SF (6 Doors)	126	\$6.50	\$819.00
EE	Sealant	Gray, Expansion Joint	Exterior - North Side at Junction of Larger Central Portion of the Building and the East and West Smaller Sections	Class II	Category I - Non-Friable	15 SF (80 LF)	80	\$6.50	\$520.00
FF	Insulator	Black, Electrical Box Board	Exterior South Central	Class II	Category II- Non-Friable	2 SF	2	\$15.00	\$30.00
HH	Cement Pipe	21" OD, Gray	Basement Mechanical Room through Pipe Chase in North West Storage Room to Roof	Class II	Category II- Non-Friable	50 LF	50	\$250.00	\$12,500.00
KK	Jacketing	White, Valves	Basement Mechanical Room	Class I	Friable (RACM when Removed)	10 SF (10 Each)	10	\$20.00	\$200.00
NN	Insulator	Black, Electrical Box	Basement Mechanical Room	Class II	Category II- Non-Friable	10 SF	10	\$15.00	\$150.00
TT	Mastic	Gray & Black, Penetrations & Seams	Roof	Class II	Category I - Non-Friable	40 SF	40	\$20.00	\$800.00
H3	Glazing	White, Windows on Doors, Interior	Interior Stairwell Doors	Class II	Category I - Non-Friable	126 SF (6 Doors)	126	\$6.50	\$819.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	430	\$3.75	\$1,612.50
Other Non-incandscnt Lamps	Universal Waste	7	\$5.00	\$35.00
Batteries: Emergency Lights & Exit Signs	Universal Waste	22	\$25.00	\$550.00
Light Fixture Ballasts	Polychlorinated Biphenyls	233	\$17.50	\$4,077.50
Water Coolers/Fountains	Ozone Depleting Chemicals	2	\$250.00	\$500.00

TOTAL \$121,080.50

**RP4457
COST ESTIMATE**

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 10 workers per 8 hour shift	17	\$1,300.00	\$22,100.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
VFT/M (C, D, J, T, U)	Vinyl Floor Tile/Mastic	9" Gray, Black, Green, Brown and Tan /Black	Throughout Except Basement Mechanical Room, Restrooms, Stairwell, Laundry Rooms, Storage Rooms and Janitor's Closets	Class II	Category I - Non-Friable	34,250 SF	34250	\$2.25	\$77,062.50
X	Sealant	Gray, Exterior Door Frames, Window Frames & Seams	Exterior Door Frames, Window Frames & Seams	Class II	Category I - Non-Friable	260 SF (3,120 LF)	3120	\$6.50	\$20,280.00
DD	Glazing	White, Windows on Doors, Exterior	Exterior Doors with Windows	Class II	Category I - Non-Friable	126 SF (6 Doors)	126	\$6.50	\$819.00
FF	Insulator	Black, Electrical Box Board	Exterior South Central	Class II	Category II- Non-Friable	2 SF	2	\$15.00	\$30.00
HH	Cement Pipe	21" OD, Gray	Basement Mechanical Room through Pipe Chase in North West Storage Room to Roof	Class II	Category II- Non-Friable	50 LF	50	\$250.00	\$12,500.00
II	Insulation	White, Tank	Basement Mechanical Room	Class I	Friable (RACM when Removed)	300 SF	300	\$20.00	\$6,000.00
KK	Jacketing	White, Valves	Basement Mechanical Room	Class I	Friable (RACM when Removed)	10 SF (10 Each)	10	\$20.00	\$200.00
NN	Insulator	Black, Electrical Box	Basement Mechanical Room	Class II	Category II- Non-Friable	10 SF	10	\$150.00	\$1,500.00
TT	Mastic	Gray & Black, Penetrations & Seams	Roof	Class II	Category I - Non-Friable	40 SF	40	\$20.00	\$800.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	439	\$3.75	\$1,646.25
Other Non-incandscnt Lamps	Universal Waste	7	\$5.00	\$35.00
Batteries: Emergency Lights & Exit Signs	Universal Waste	22	\$25.00	\$550.00
Light Fixture Ballasts	Polychlorinated Biphenyls	233	\$17.50	\$4,077.50
TOTAL				\$125,500.25

**RP4466
COST ESTIMATE**

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 10 workers per 8 hour shift	22	\$1,300.00	\$28,600.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
VFT/M (C, D, J, T, U)	Vinyl Floor Tile/Mastic	9" Gray, Black, Maroon, Tan and 12" White /Black	Throughout Except Basement Mechanical Room, Restrooms, Stairwell, Laundry Rooms except 1st Floor , Storage Rooms and Janitor's Closets	Class II	Category I - Non-Friable	35,000 SF	35000	\$2.25	\$78,750.00
X	Sealant	Gray, Exterior Door Frames, Window Frames & Seams	Exterior Door Frames, Window Frames & Seams	Class II	Category I - Non-Friable	260 SF (3,120 LF)	3120	\$6.50	\$20,280.00
Y	Glazing	Tan, Window	Windows	Class II	Category I - Non-Friable	4,750 SF (118 Windows)	4750	\$6.50	\$30,875.00
DD	Glazing	White, Windows on Doors, Exterior	Exterior Doors with Windows	Class II	Category I - Non-Friable	126 SF (6 Doors)	126	\$6.50	\$819.00
EE	Sealant	Gray, Expansion Joint	Exterior - North Side at Junction of Larger Central Portion of the Building and the East and West Smaller Sections	Class II	Category I - Non-Friable	15 SF (80 LF)	80	\$6.50	\$520.00
FF	Insulator	Black, Electrical Box Board	Exterior South Central	Class II	Category II- Non-Friable	2 SF	2	\$15.00	\$30.00
HH	Cement Pipe	21" OD, Gray	Basement Mechanical Room through Pipe Chase in North West Storage Room to Roof	Class II	Category II- Non-Friable	50 LF	50	\$250.00	\$12,500.00
II	Insulation	White, Tank	Basement Mechanical Room	Class I	Friable (RACM when Removed)	300 SF	300	\$20.00	\$6,000.00
KK	Jacketing	White, Valves	Basement Mechanical Room	Class I	Friable (RACM when Removed)	10 SF (10 Each)	10	\$20.00	\$200.00
NN	Insulator	Black, Electrical Box	Basement Mechanical Room	Class II	Category II- Non-Friable	10 SF	10	\$15.00	\$150.00
TT	Mastic	Gray & Black, Penetrations & Seams	Roof	Class II	Category I - Non-Friable	40 SF	40	\$20.00	\$800.00
E3	Sealant	Gray, Wood Panel	1st Floor North East - 2nd Bedroom	Class II	Category I - Non-Friable	120 SF	120	\$6.50	\$780.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	439	\$3.75	\$1,646.25
Other Non-incandescant Lamps	Universal Waste	7	\$5.00	\$35.00
Batteries: Emergency Lights & Exit Signs	Universal Waste	22	\$25.00	\$550.00
Light Fixture Ballasts	Polychlorinated Biphenyls	233	\$17.50	\$4,077.50
Water Coolers/Fountains	Ozone Depleting Chemicals	2	\$250.00	\$500.00

TOTAL \$158,512.75

**RP4467
COST ESTIMATE**

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 10 workers per 8 hour shift	21	\$1,300.00	\$27,300.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
VFT/M (C, J, U)	Vinyl Floor Tile/Mastic	9" Gray, Green, Tan/Black	Throughout Except Basement Mechanical Rooms, Restrooms, Stairwell, Laundry Rooms (2nd & 3rd Floors), Storage Rooms and Janitor's Closets	Class II	Category I - Non-Friable	35,000 SF	35000	\$2.25	\$78,750.00
X	Sealant	Gray, Exterior Door Frames, Window Frames & Seams	Exterior Door Frames, Window Frames & Seams	Class II	Category I - Non-Friable	260 SF (3,120 LF)	3120	\$6.50	\$20,280.00
Y	Glazing	Tan, Window	Windows	Class II	Category I - Non-Friable	4,750 SF (118 Windows)	4750	\$6.50	\$30,875.00
BB	Sealant	Gray, "Goosey", Louver	Exterior North Central and Basement Mechanical Room, Louvers	Class II	Category I - Non-Friable	5 SF (64 LF)	64	\$8.00	\$512.00
CC	Sealant	Clear, Gray, "Silicon-Like"	Exterior North Central, Vents	Class II	Category I - Non-Friable	10 SF (120 LF)	120	\$6.50	\$780.00
DD	Glazing	White, Windows on Doors, Exterior	Exterior Doors with Windows	Class II	Category I - Non-Friable	126 SF (6 Doors)	126	\$6.50	\$819.00
EE	Sealant	Gray, Expansion Joint	Exterior - North Side at Junction of Larger Central Portion of the Building and the East and West Smaller Sections	Class II	Category I - Non-Friable	15 SF (80 LF)	80	\$6.50	\$520.00
FF	Insulator	Black, Electrical Box Board	Exterior South Central	Class II	Category II- Non-Friable	2 SF	2	\$15.00	\$30.00
GG	Insulator	Brown, Electrical Box	Exterior South Central	Class II	Category II- Non-Friable	2 SF	2	\$15.00	\$30.00
HH	Cement Pipe	21" OD, Gray	Basement Mechanical Room through Pipe Chase in North West Storage Room to Roof	Class II	Category II- Non-Friable	50 LF	50	\$250.00	\$12,500.00
NN	Insulator	Black, Electrical Box	Basement Mechanical Room	Class II	Category II- Non-Friable	10 SF	10	\$15.00	\$150.00
TT	Mastic	Gray & Black, Penetrations & Seams	Roof	Class II	Category I - Non-Friable	40 SF	40	\$20.00	\$800.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	439	\$3.75	\$1,646.25
Other Non-incandescant Lamps	Universal Waste	7	\$5.00	\$35.00
Batteries: Emergency Lights & Exit Signs	Universal Waste	22	\$25.00	\$550.00
Light Fixture Ballasts	Polychlorinated Biphenyls	233	\$17.50	\$4,077.50
Water Coolers/Fountains	Ozone Depleting Chemicals	2	\$250.00	\$500.00

Total \$152,854.75

**RP4469
COST ESTIMATE**

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 10 workers per 8 hour shift	25	\$1,300.00	\$32,500.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
VFT/M (C, D, T, U)	Vinyl Floor Tile/Mastic	9" Gray, Beige, Tan and 12" White/Black	Throughout Except Basement Mechanical Room, Restrooms, Stairwell, Laundry Rooms (2nd & 3rd Floors), Storage Rooms and Janitor's Closets	Class II	Category I - Non-Friable	34,750 SF	34750	\$2.25	\$78,187.50
X	Sealant	Gray, Exterior Door Frames, Window Frames & Seams	Exterior Door Frames, Window Frames & Seams	Class II	Category I - Non-Friable	260 SF (3,120 LF)	3120	\$6.50	\$20,280.00
Y	Glazing	Tan, Window	Windows	Class II	Category I - Non-Friable	4,750 SF (118 Windows)	4750	\$6.50	\$30,875.00
DD	Glazing	White, Windows on Doors, Exterior	Exterior Doors with Windows	Class II	Category I - Non-Friable	126 SF (6 Doors)	126	\$6.50	\$819.00
EE	Sealant	Gray, Expansion Joint	Exterior - North Side at Junction of Larger Central Portion of the Building and the East and West Smaller Sections	Class II	Category I - Non-Friable	15 SF (80 LF)	80	\$6.50	\$520.00
FF	Insulator	Black, Electrical Box Board	Exterior South Central	Class II	Category II- Non-Friable	2 SF	2	\$15.00	\$30.00
HH	Cement Pipe	21" OD, Gray	Basement Mechanical Room through Pipe Chase in North West Storage Room to Roof	Class II	Category II- Non-Friable	50 LF	50	\$250.00	\$12,500.00
II	Insulation	White, Tank	Basement Mechanical Room	Class I	Friable (RACM when Removed)	300 SF	300	\$20.00	\$6,000.00
NN	Insulator	Black, Electrical Box	Basement Mechanical Room	Class II	Category II- Non-Friable	10 SF	10	\$15.00	\$150.00
TT	Mastic	Gray & Black, Penetrations & Seams	Roof	Class II	Category I - Non-Friable	40 SF	40	\$20.00	\$800.00
B3	Vapor Barrier	Black, Under Ceramic 1" Floor Tile	Restrooms	Class II	Category I - Non-Friable	3,200 SF	3200	\$9.00	\$28,800.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	439	\$3.75	\$1,646.25
Other Non-incandscnt Lamps	Universal Waste	7	\$5.00	\$35.00
Batteries: Emergency Lights & Exit Signs	Universal Waste	22	\$25.00	\$550.00
Light Fixture Ballasts	Polychlorinated Biphenyls	233	\$17.50	\$4,077.50
Water Coolers/Fountains	Ozone Depleting Chemicals	2	\$250.00	\$500.00

Total \$185,770.25

**RP4471
COST ESTIMATE**

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 10 workers per 8 hour shift	21	\$1,300.00	\$27,300.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
VFT/M (C, D, J, U)	Vinyl Floor Tile/Mastic	9" Gray, Off-White, Tan and 12" Beige/Black	Throughout Except Basement Mechanical Room, Restrooms, Stairwell, Laundry Rooms, Storage Rooms and Janitor's Closets	Class II	Category I - Non-Friable	33,750 SF	33750	\$2.25	\$75,937.50
X	Sealant	Gray, Exterior Door Frames, Window Frames & Seams	Exterior Door Frames, Window Frames & Seams	Class II	Category I - Non-Friable	260 SF (3,120 LF)	3120	\$6.50	\$20,280.00
Y	Glazing	Tan, Window	Windows	Class II	Category I - Non-Friable	4,750 SF (118 Windows)	4750	\$6.50	\$30,875.00
EE	Sealant	Gray, Expansion Joint	Exterior - North Side at Junction of Larger Central Portion of the Building and the East and West Smaller Sections	Class II	Category I - Non-Friable	15 SF (80 LF)	80	\$6.50	\$520.00
FF	Insulator	Black, Electrical Box Board	Exterior South Central	Class II	Category II- Non-Friable	2 SF	2	\$15.00	\$30.00
HH	Cement Pipe	21" OD, Gray	Basement Mechanical Room through Pipe Chase in North West Storage Room to Roof	Class II	Category II- Non-Friable	50 LF	50	\$250.00	\$12,500.00
II	Insulation	White, Tank	Basement Mechanical Room	Class I	Friable (RACM when Removed)	300 SF	300	\$20.00	\$6,000.00
NN	Insulator	Black, Electrical Box	Basement Mechanical Room	Class II	Category II- Non-Friable	10 SF	10	\$15.00	\$150.00
TT	Mastic	Gray & Black, Penetrations & Seams	Roof	Class II	Category I - Non-Friable	40 SF	40	\$20.00	\$800.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	418	\$3.75	\$1,567.50
Other Non-incandescant Lamps	Universal Waste	4	\$5.00	\$20.00
Batteries: Exit Signs	Universal Waste	9	\$25.00	\$225.00
Light Fixture Ballasts	Polychlorinated Biphenyls	235	\$17.50	\$4,112.50
Water Coolers/Fountains	Ozone Depleting Chemicals	3	\$250.00	\$750.00
Smoke Detectors	Low-Level Radiation	6	\$15.00	\$90.00

Total \$153,857.50

**RP4472
COST ESTIMATE**

Task 4

DESCRIPTION	ESTIMATED SHIFTS	UNIT PRICING	TOTAL
Estimated Consulting Fees for daily monitoring and report based on 10 workers per 8 hour shift	17	\$1,300.00	\$22,100.00

Task 5

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
VFT/M (C, D, T, U)	Vinyl Floor Tile/Mastic	9" Gray, Brown, Tan and 12" Off-White/Black	Throughout Except Basement Mechanical Room, Restrooms, Stairwell, Laundry Rooms, Storage Rooms and Janitor's Closets	Class II	Category I - Non-Friable	33,750 SF	33750	\$2.25	\$75,937.50
X	Sealant	Gray, Exterior Door Frames, Window Frames & Seams	Exterior Door Frames, Window Frames & Seams	Class II	Category I - Non-Friable	260 SF (3,120 LF)	3120	\$6.50	\$20,280.00
DD	Glazing	Black, Window On Doors, Exterior	Exterior Doors with Windows	Class II	Category I - Non-Friable	126 SF (6 Doors)	126	\$6.50	\$819.00
EE	Sealant	Gray, Expansion Joint	Exterior - North Side at Junction of Larger Central Portion of the Building and the East and West Smaller Sections	Class II	Category I - Non-Friable	15 SF (80 LF)	80	\$6.50	\$520.00
FF	Insulator	Black, Electrical Box Board	Exterior South Central	Class II	Category II- Non-Friable	2 SF	2	\$15.00	\$30.00
HH	Cement Pipe	21" OD, Gray	Basement Mechanical Room through Pipe Chase in North West Storage Room to Roof	Class II	Category II- Non-Friable	50 LF	50	\$250.00	\$12,500.00
KK	Jacketing	White, Valves	Basement Mechanical Room	Class I	Friable (RACM when Removed)	10 SF (10 Each)	10	\$20.00	\$200.00
NN	Insulator	Black, Electrical Box	Basement Mechanical Room	Class II	Category II- Non-Friable	10 SF	10	\$15.00	\$150.00
TT	Mastic	Gray & Black, Penetrations & Seams	Roof	Class II	Category I - Non-Friable	40 SF	40	\$20.00	\$800.00
E3	Heat Shield	Gray	1st Floor: South West and South East Bedrooms	Class II	Friable (RACM when Removed)	6 SF (6 Each)	6	\$30.00	\$180.00
G3	Glazing	White, Windows on Doors, Interior	Interior Stairwell Doors	Class II	Category I - Non-Friable	126 SF (6 Doors)	126	\$6.50	\$819.00

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY	UNIT PRICING	SUB TOTAL
Fluorescent Tubes (4' Length)	Universal Waste	448	\$3.75	\$1,680.00
Other Non-incandescent Lamps	Universal Waste	7	\$5.00	\$35.00
Batteries: Emergency Lights & Exit Signs	Universal Waste	22	\$25.00	\$550.00
Light Fixture Ballasts	Polychlorinated Biphenyls	242	\$17.50	\$4,235.00
Water Coolers/Fountains	Ozone Depleting Chemicals	2	\$250.00	\$500.00
Smoke Detectors	Low-Level Radiation	25	\$15.00	\$375.00

Total \$119,610.50