MALCOLM PIRNIE

MALCOLM PIRNIE, INC.
ENVIRONMENTAL ENGINEERS, SCIENTISTS & PLANNERS

100 YEARS

February 12, 1996

Mr. T. Kevin Sheehy
Environmental
GAF Corporation
1361 Alps Road
Wayne, New Jersey 07470

Re: GAF Parking-Lot Site PCB-Contaminated Soil Removal Work Plan and Cost Estimate

Dear Mr. Sheehy:

Malcolm Pirnie is pleased to provide you with the following work plan and cost estimate for the referenced project.

The following plan describes the work that will be performed to remove the surface soil (0-1 foot below grade) at test pit TP-1 that contains greater than 1 part per million (ppm) polychlorinated biphenyls (PCBs), and subsurface soil containing greater than 10 ppm of PCBs, if encountered. As you know, we identified the contaminated area through our investigation last October. The contamination was shown to be confined to the red-stained soil that was segregated during excavation of the test pit, then returned as backfill to the upper few feet of the southeast quadrant of the pit, at the NYSDECs direction.

A backhoe will be used to excavate the contaminated soils. The approximate area to be excavated will consist of the upper two feet of the southeast quadrant of TP-1. We estimate the volume of excavated soil to be about five cubic yards. There is a measure of conservatism built into this estimated volume. Limits of excavation will be determined visually, since the contaminated soil is red-stained. Excavated soils will be placed in drums or a roll-off container, prior to disposal. Three "confirmatory" samples will be collected from the excavation after the contaminated soils are removed, one from the excavation floor and two from the walls of the excavation. The purpose of these samples is to confirm that the cleanup objectives have been met (i.e. 1 ppm PCBs for surface soils and 10 ppm PCBs for subsurface soils). One composite sample of the excavated material will be sent to an off-site laboratory for analysis for PCBs. The excavated area will be lined with poly sheeting and backfilled with clean fill obtained from an off-site source. The poly sheeting will prevent the fill from becoming contaminated in the unlikely event that we find that all of the contaminated soil was not removed. The backhoe will be decontaminated with a steam cleaner prior to leaving the site. As with previous investigations, the decontamination will take place just uphill of the test pit location so that decontamination water will drain back into the former excavation.

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Our estimated cost for this task, including all labor, subcontractor costs, and disposal is $8,970, and is summarized in Table 1. This cost assumes the following:

- The confirmatory samples demonstrate that the removal effort was successful and no further excavation is required,
- The excavated material can be disposed-of as "non-hazardous" (i.e. the characterization sample results are less than 50 ppm total PCBs),
- The excavation and backfilling can be completed in one day, and
- GAF Corporation will sign the shipping manifest(s)

As you can see from the table, we are not proposing to use the PCB field-screening method (which we used during last October's delineation effort) to aid in determining the limits of excavation, rather, we plan to excavate the upper two feet of the southeast quadrant, and any additional red-stained soil, if present. We are taking this approach for two reasons. First, previous investigations have shown the contamination to be very localized; therefore there is little chance that some contaminated soil will remain unexcavated, and second, since the disposal costs that we have arranged are so reasonable, it would be cheaper to excavate a little more soil to be sure the contamination is removed rather than field-screening a large number of samples. If you feel more comfortable with the added certainty provided by the field-screening, we can provide it for an additional cost of about $800.

We look forward to completing this removal action, and are prepared to begin soon after receiving your authorization to proceed. Once completed, we see no reason why this site should not be removed from the NYSDEC's registry of Inactive Hazardous Waste Sites.

Very truly yours,
MALCOLM PIRNIE, INC.

Keith A. White

Keith A. White, P.G.
Project Hydrogeologist

Kenneth J. Goldstein/KAW

Kenneth J. Goldstein, C.G.W.P.
Associate

jml

Attachment

2435-005

c: Dick Brownell, NNJ
Tom Suozzo, NYSDEC

TABLE 1: PCB SOIL EXCAVATION AND DISPOSAL COST ESTIMATE
GAF PARKING LOT SITE, BINGHAMTON, NY

LABOR

Task	Project Officer	Associate	Project Hydrogeo.	Hydrogeo.	Drafter	Clerical	Admin. Asst.	Total Labor
Per Diem Rates -->	$160	$118	$72	$60	$37	$32	$45	
Soil Excavation and Sampling		1	2	12				15
Letter Report	1	2	3	7	4	5		22
Plan Development & Management		3	18				2	23
Total Labor Hours	1	6	23	19	4	5	2	60
Total Labor Dollars	$160	$708	$1,656	$1,140	$148	$160	$90	$4,062

EXPENSES

Excavation and Disposal	$2,714
Sample Analysis	$1,517
Miscellaneous[1]	$677
Total Expenses	$4,908

TOTALS

Labor	$4,062
Expenses	$4,908
Total Cost	$8,970

[1] Includes computer services, equipment rental, travel, communication and postage.