

## BROOKHAVEN NATIONAL LABORATORY FY05 Funded Pollution Prevention Projects

| Rank                          | Project Name                                  | Directorate, Dept/Div and POC                            | Cost             | Savings          | Payback (Years) | Waste Reduction   |
|-------------------------------|---|--|------------------|------------------|-----------------|---|
| 1                             | Aerosol Can Disposal System                   | High Energy Nuclear Physics (M. Van Essendelft)          | \$1,700          | \$991            | 1.7             | 66 pounds of hazardous waste                                    |
| 2                             | Formaldetox                                   | Life Sciences, Biology (A. Dilmanian)                    | \$1,040          | \$2,120          | 0.5             | 128 pounds of lab pack industrial wastes expected to be removed |
| 3                             | Replacement of IO Mercury Thermometers        | Instrumentation Division (R. Dinardo)                    | \$250            | \$2,350          | 0.1             | mercury   |
| 4                             | Replacement of PO Mercury Thermometers        | Physics Department (R. Liegel)                           | \$450            | \$2,350          | 0.2             | mercury   |
| 5                             | Photon Counting Spectrofluorometer            | Life Sciences, Biology (D. Fu)                           | \$46,350         | \$25,540         | 1.8             | 2 ft3 of mixed waste and 1000 man-hours                         |
| 6                             | Replacement of Mercury Utility Devices        | Facilities & Operations, Plant Engineering (T. Farmer)   | \$12,000         | \$2,350          | 5.1             | mercury   |
| 7                             | Animal Bedding Conveying System Dismantling * | Life Sciences, Medical (M. Kershaw)                      | \$5,000          | \$38,125         | 0.1             | 250 ft3 of LLRW   |
| 8                             | PCB Transformer Carcus Removal                | Environmental & Waste Management Services (M. Davis)     | \$6,251          | \$6,000          | 1.0             | High level risk to the Lab                                      |
| 9                             | Recovery of CFC-113 from Building 511 Chiller | Facilities & Operations, Plant Engineering (R. McKay)    | \$1,000          | \$3,750          | 0.3             | Reduction of Class 1 Ozone Depleting Substances                 |
| 10                            | Halogen 1211 Fire Extinguisher Substitution * | Facilities & Operations, Emergency Services (J. Searing) | \$10,000         | \$6,250          | 1.6             | Reduction of Halogenated Ozone Depleting Substances             |
| 11                            | EP Grounds Vehicle Wash *                     | Facilities & Operations, Plant Engineering (R. Jones)    | \$3,000          | \$5,800          | 0.5             | oils/grease to soils  |
| 12                            | 208 Hopper Demolition                         | Environmental & Waste Management Services (P. D. Pohlot) | \$8,100          | \$4,000          | 2.0             | Legacy Waste and Safety Risk to Lab                             |
| 13                            | Lab-Wide Earth Day Mercury Disposal Amnesty   | Environmental & Waste Management Services (J. Selva)     | \$6,000          | \$2,350          | 2.6             | Mercury   |
| <b>TOTAL INVESTED</b>         |   |  | <b>\$101,141</b> |                  |                 |   |
| <b>TOTAL SAVINGS</b>          |   |  |                  | <b>\$101,976</b> |                 |   |
| <b>AVERAGE PAYBACK PERIOD</b> |   |  |                  |                  | <b>1.4</b>      |   |

\* indicates partial funding of the project