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December 8, 2011

Solid Waste Section
Asheville Regional Office

December 8, 2011

North Carolina Department of Environment and Natural Resources
Division of Waste Management
Solid Waste Section
2090 U.S. Highway 70
Swannanoa, NC 28778

Attention: Mr. Larry Frost
Regional Engineer

**Reference: Response to Comments
Request for Additional Information Regarding
Financial Assurance Estimate of Probable Cost
Lincoln County Landfill**
S&ME Project No: 1356-11-013
NC Engineering License No. F-0176

Dear Mr. Frost:

The following letter is in response to the North Carolina Department of Environment and Natural Resources (NCDENR) phone conversation on December 8, 2011, from Jaclynne Drummond (NCDENR) to Julie Petersen (S&ME, Inc.). S&ME, Inc. (S&ME), on behalf of Lincoln County, has prepared a revised potential assessment and corrective action cost estimate for financial assurance for the Lincoln County Landfill. Please find attached to this letter a revised estimate of probable cost in 2011 dollars.

S&ME prepared this revised estimate of probable cost for potential assessment and corrective actions based on the above mentioned phone conversation, our recent experience with similar projects and our understanding of the rules and requirements in effect. The revised cost estimate was prepared using an assumed scenario of a release at the Municipal Solid Waste (MSW) landfill. The selected remedy assumed was natural attenuation with a monitoring period of 30 years. The revised cost estimate has been separated into fifteen tasks that correspond with the "Draft Financial Assurance Cost

Estimate Summary for Potential Assessment and Corrective Action for Municipal Solid Waste Landfills" list of rule based items. Assumptions made as to the number of wells installed and sampled are included in the cost estimate under the respective task.

If you should have any questions or need additional information pertaining to this letter, please do not hesitate to contact us at your convenience.

Sincerely,

S&ME, Inc.



Julie R. Petersen, P.G.
Project Manager/Senior Geologist



Kenneth R. Daly, P.E.
Senior Project Engineer

Senior reviewed by: Jason S. Reeves, P.E., Senior Project Engineer

Attachments: Corrective Action Estimate of Probable Cost Summary
Corrective Action Estimate of Probable Cost

cc: Jackie Drummond, NCDENR
Burns Whittaker, Lincoln County
Mark Bivins, Lincoln County

Corrective Action Estimate of Probable Cost Summary (2011 Dollars)

Lincoln County Landfill

S&ME Project No. 1356-11-013

Assumed Scenario: Release at MSW Landfill, Monitored Natural Attenuation as Selected Remedy.

| TASK | RULE | DESCRIPTION | ESTIMATED COST |
|---------|------------------------------|--|-----------------|
| TASK 1 | 15A NCAC 13B .1634 | Appendix II Background Sampling of Groundwater Monitoring Network (4 events per sampling location) | \$ 83,120.00 |
| TASK 2 | 15A NCAC 13B .1634 | Installation of at least two wells (deep and shallow) at the compliance boundary | \$ 19,040.00 |
| TASK 3 | 15A NCAC 13B .1634 | Appendix II Sampling of Original Well Network and Compliance Boundary Wells Annually (First Semi-Annual Monitoring Event) | \$ 27,000.00 |
| TASK 4 | 15A NCAC 13B .1634 | Appendix I and II Detects Sampling of Original Well Network and Compliance Boundary Wells Annually (Second Semi-Annual Monitoring Event) | \$ 20,820.00 |
| TASK 5 | 15A NCAC 13B .1634 | Installation of additional monitoring wells to characterize the nature and extent (N&E) of the plume | \$ 59,960.00 |
| TASK 6 | 15A NCAC 13B .1634 | Appendix II Background Sampling of N&E Monitoring Network (4 events per sampling location) | \$ 47,340.00 |
| TASK 7 | 15A NCAC 13B .1634 | Appendix II Sampling of N&E Well Network Annually (First Semi-Annual Monitoring Event) | \$ 15,770.00 |
| TASK 8 | 15A NCAC 13B .1634 | Appendix I and II Detects Sampling of N&E Well Network Annually (Second Semi-Annual Monitoring Event) | \$ 13,200.00 |
| TASK 9 | 15A NCAC 13B .1635 | Assessment of Corrective Measures (Report, Public Notice, Public Meeting) | \$ 35,950.00 |
| TASK 10 | 15A NCAC 13B .1636 | Selection of Remedy | \$ 20,060.00 |
| TASK 11 | 15A NCAC 13B .1636 and .1637 | Corrective Action Plan Submittal, Approval, and Implementation | \$ 1,602,290.00 |
| TASK 12 | 15A NCAC 13B .1636 and .1637 | Installation of Additional Monitoring Wells to Monitor Effectiveness of Selected Remedy | \$ 37,730.00 |
| TASK 13 | 15A NCAC 13B .1636 and .1637 | Maintenance and Repair of Additional Monitoring Wells | \$ 7,500.00 |
| TASK 14 | 15A NCAC 13B .1636 and .1637 | Sampling and Analysis of Additional Monitoring Wells | \$ - |
| TASK 15 | 15A NCAC 13B .1637 | Corrective Action Remedy is Complete | \$ 10,340.00 |

| | |
|--|------------------------|
| ESTIMATE OF PROBABLE COST FOR CORRECTIVE ACTION | \$ 2,000,120.00 |
|--|------------------------|

Corrective Action Estimate of Probable Cost (2011 Dollars)

Lincoln County Landfill
S&ME Project No. 1356-11-013

Assumed Scenario: Release at MSW Landfill, Monitored Natural Attenuation as Selected Remedy.

| TASK 1 | | | | | | | |
|--|------|-------|----|----|--------|-----------|---------------------|
| 15A NCAC 13B .1634 | | | | | | | |
| Appendix II Background Sampling of Groundwater Monitoring Network | | | | | | | |
| (4 events per sampling location) | | | | | | | |
| 20 MSW Well Locations, 3 Days to Sample | | | | | | | |
| Field Work (4 events) | | | | | | | |
| Technician Time (2 techs) | 240 | hours | at | \$ | 66.00 | per hour | \$ 15,840.00 |
| Mileage | 1200 | miles | at | \$ | 0.52 | per mile | \$ 624.00 |
| Water Level Probe | 12 | days | at | \$ | 30.00 | per day | \$ 360.00 |
| pH Meter | 12 | days | at | \$ | 35.00 | per day | \$ 420.00 |
| Conductivity Meter | 12 | days | at | \$ | 38.00 | per day | \$ 456.00 |
| Gator Rental | 12 | days | at | \$ | 140.00 | per week | \$ 1,680.00 |
| Disposable Teflon Bailers | 7 | cases | at | \$ | 189.00 | per case | \$ 1,323.00 |
| Disposables (Tubing, Gloves, Ropes etc) | 1 | each | at | \$ | 600.00 | per each | \$ 600.00 |
| | | | | | | | \$ 21,303.00 |
| Analytical (4 events) | | | | | | | |
| Appendix II - Volatiles | 84 | each | at | \$ | 115.00 | per each | \$ 9,660.00 |
| Appendix II - Semi Volatiles | 80 | each | at | \$ | 195.50 | per each | \$ 15,640.00 |
| Appendix II - Pesticides/PCB | 80 | each | at | \$ | 103.50 | per each | \$ 8,280.00 |
| Appendix II - Herbicides | 80 | each | at | \$ | 118.45 | per each | \$ 9,476.00 |
| Appendix II - Metals | 80 | each | at | \$ | 103.50 | per each | \$ 8,280.00 |
| Appendix II - CN | 80 | each | at | \$ | 41.40 | per each | \$ 3,312.00 |
| Appendix II - Sulfide | 80 | each | at | \$ | 17.25 | per each | \$ 1,380.00 |
| | | | | | | | \$ 56,028.00 |
| Reporting (1 event) | | | | | | | |
| Senior Professional (P5) | 2 | hour | at | \$ | 121.00 | per hour | \$ 242.00 |
| Registered Professional (P4) | 8 | hours | at | \$ | 110.00 | per hours | \$ 880.00 |
| Project Professional (P3) | 40 | hours | at | \$ | 99.00 | per hours | \$ 3,960.00 |
| CAD Operator | 8 | hours | at | \$ | 66.00 | per hours | \$ 528.00 |
| Administration | 4 | hours | at | \$ | 44.00 | per hours | \$ 176.00 |
| | | | | | | | \$ 5,786.00 |
| TASK 1 TOTAL | | | | | | | \$ 83,117.00 |

Corrective Action Estimate of Probable Cost (2011 Dollars)

Lincoln County Landfill
S&ME Project No. 1356-11-013

Assumed Scenario: Release at MSW Landfill, Monitored Natural Attenuation as Selected Remedy.

| TASK 2 | | | | | | | |
|---|-----|-------|----|----|----------|-----------|---------------------|
| 15A NCAC 13B .1634 | | | | | | | |
| Installation of at least two wells (deep and shallow) at the compliance boundary | | | | | | | |
| Drilling Services (3 days) | | | | | | | |
| Drill Rig Mobilization | 1 | each | at | \$ | 500.00 | per each | \$ 500.00 |
| Soil Test Boring (0-50 ft depth) 4.25 ID Augers | 50 | feet | at | \$ | 12.50 | per foot | \$ 625.00 |
| Auger Boring (0-50 ft depth) 4.25 ID Augers | 50 | feet | at | \$ | 8.00 | per foot | \$ 400.00 |
| Rock Coring - Set up, per hole | 1 | each | at | \$ | 131.25 | per each | \$ 131.25 |
| Installation of Temporary NW Casing | 50 | feet | at | \$ | 5.25 | per foot | \$ 262.50 |
| NQ Coring | 25 | feet | at | \$ | 42.00 | per foot | \$ 1,050.00 |
| Installation of Type II Monitor Well, 2-inch | 125 | feet | at | \$ | 26.25 | per foot | \$ 3,281.25 |
| Above Grade Protective Casing, 2-inch wells | 2 | each | at | \$ | 178.50 | per each | \$ 357.00 |
| Steam Cleaner | 2 | days | at | \$ | 131.25 | per day | \$ 262.50 |
| Grout Plant | 1 | day | at | \$ | 105.00 | per day | \$ 105.00 |
| Water Trailer | 3 | days | at | \$ | 78.75 | per day | \$ 236.25 |
| Non-drilling time (water hauling, decon, etc.) | 4 | hours | at | \$ | 110.00 | per hour | \$ 440.00 |
| | | | | | | | \$ 7,650.75 |
| Drilling Oversight (3 days) | | | | | | | |
| Project Professional (P3) | 30 | hours | at | \$ | 99.00 | per hour | \$ 2,970.00 |
| Mileage | 300 | miles | at | \$ | 0.52 | per mile | \$ 156.00 |
| Water Level Meter | 3 | days | at | \$ | 30.00 | per day | \$ 90.00 |
| | | | | | | | \$ 3,216.00 |
| Well Development and Slug Testing (2 days) | | | | | | | |
| Project Professional (P3) | 20 | hours | at | \$ | 99.00 | per hour | \$ 1,980.00 |
| Mileage | 200 | miles | at | \$ | 0.52 | per mile | \$ 104.00 |
| Water Level Meter | 2 | days | at | \$ | 30.00 | per day | \$ 60.00 |
| Pressure Transducer and Data Logger | 1 | day | at | \$ | 50.00 | per day | \$ 50.00 |
| Battery Operated Well Pump | 2 | days | at | \$ | 25.00 | per day | \$ 50.00 |
| | | | | | | | \$ 2,244.00 |
| Soil Laboratory Classification (for porosity estimates) | | | | | | | |
| Atterburg Limits | 1 | each | at | \$ | 68.25 | per each | \$ 68.25 |
| Grain Size with Hydrometer | 1 | each | at | \$ | 99.75 | per each | \$ 99.75 |
| Specific Gravity | 1 | each | at | \$ | 47.25 | per each | \$ 47.25 |
| | | | | | | | \$ 215.25 |
| Well Survey | | | | | | | |
| Project Professional (P3) | 2 | hours | at | \$ | 99.00 | per hour | \$ 198.00 |
| Subcontracted Survey Cost | 1 | each | at | \$ | 2,000.00 | per each | \$ 2,000.00 |
| | | | | | | | \$ 2,198.00 |
| Boring Logs, Well Logs, and Estimation of Groundwater Flow | | | | | | | |
| Registered Professional (P4) | 4 | hours | at | \$ | 110.00 | per hours | \$ 440.00 |
| Project Professional (P3) | 24 | hours | at | \$ | 99.00 | per hours | \$ 2,376.00 |
| CAD Operator | 8 | hours | at | \$ | 66.00 | per hours | \$ 528.00 |
| Administration | 4 | hours | at | \$ | 44.00 | per hours | \$ 176.00 |
| | | | | | | | \$ 3,520.00 |
| TASK 2 TOTAL | | | | | | | \$ 19,044.00 |

Corrective Action Estimate of Probable Cost (2011 Dollars)

Lincoln County Landfill
S&ME Project No. 1356-11-013

Assumed Scenario: Release at MSW Landfill, Monitored Natural Attenuation as Selected Remedy.

| TASK 3 | | | | | | | |
|---|-----|-------|----|----|--------|-----------|---------------------|
| 15A NCAC 13B .1634 | | | | | | | |
| Appendix II Sampling of Original Well Network and Compliance Boundary Wells Annually | | | | | | | |
| (First Semi-Annual Monitoring Event) | | | | | | | |
| 22 MSW Well Locations, 3 Days to Sample | | | | | | | |
| Field Work (1 event) | | | | | | | |
| Technician Time (2 techs) | 60 | hours | at | \$ | 66.00 | per hour | \$ 3,960.00 |
| Mileage | 300 | miles | at | \$ | 0.52 | per mile | \$ 156.00 |
| Water Level Probe | 3 | days | at | \$ | 30.00 | per day | \$ 90.00 |
| pH Meter | 3 | days | at | \$ | 35.00 | per day | \$ 105.00 |
| Conductivity Meter | 3 | days | at | \$ | 38.00 | per day | \$ 114.00 |
| Gator Rental | 3 | days | at | \$ | 140.00 | per week | \$ 420.00 |
| Disposable Teflon Bailers | 2 | cases | at | \$ | 189.00 | per case | \$ 378.00 |
| Disposables (Tubing, Gloves, Ropes etc) | 1 | each | at | \$ | 150.00 | per each | \$ 150.00 |
| | | | | | | | \$ 5,373.00 |
| Analytical (1 event) | | | | | | | |
| Appendix II - Volatiles | 23 | each | at | \$ | 115.00 | per each | \$ 2,645.00 |
| Appendix II - Semi Volatiles | 22 | each | at | \$ | 195.50 | per each | \$ 4,301.00 |
| Appendix II - Pesticides/PCB | 22 | each | at | \$ | 103.50 | per each | \$ 2,277.00 |
| Appendix II - Herbicides | 22 | each | at | \$ | 118.45 | per each | \$ 2,605.90 |
| Appendix II - Metals | 22 | each | at | \$ | 103.50 | per each | \$ 2,277.00 |
| Appendix II - CN | 22 | each | at | \$ | 41.40 | per each | \$ 910.80 |
| Appendix II - Sulfide | 22 | each | at | \$ | 17.25 | per each | \$ 379.50 |
| | | | | | | | \$ 15,396.20 |
| Reporting (1 event) | | | | | | | |
| Senior Professional (P5) | 2 | hour | at | \$ | 121.00 | per hour | \$ 242.00 |
| Registered Professional (P4) | 12 | hours | at | \$ | 110.00 | per hours | \$ 1,320.00 |
| Project Professional (P3) | 40 | hours | at | \$ | 99.00 | per hours | \$ 3,960.00 |
| CAD Operator | 8 | hours | at | \$ | 66.00 | per hours | \$ 528.00 |
| Administration | 4 | hours | at | \$ | 44.00 | per hours | \$ 176.00 |
| | | | | | | | \$ 6,226.00 |
| TASK 3 TOTAL | | | | | | | \$ 26,995.20 |

Corrective Action Estimate of Probable Cost (2011 Dollars)

Lincoln County Landfill
S&ME Project No. 1356-11-013

Assumed Scenario: Release at MSW Landfill, Monitored Natural Attenuation as Selected Remedy.

| TASK 4 | | | | | | | |
|---|-----|-------|----|----|--------|-----------|---------------------|
| 15A NCAC 13B .1634 | | | | | | | |
| Appendix I and II Detects Sampling of Original Well Network and Compliance Boundary Wells Annually | | | | | | | |
| (Second Semi-Annual Monitoring Event) | | | | | | | |
| 22 MSW Well Locations, 3 Days to Sample | | | | | | | |
| Field Work (1 event) | | | | | | | |
| Technician Time (2 techs) | 60 | hours | at | \$ | 66.00 | per hour | \$ 3,960.00 |
| Mileage | 300 | miles | at | \$ | 0.52 | per mile | \$ 156.00 |
| Water Level Probe | 3 | days | at | \$ | 30.00 | per day | \$ 90.00 |
| pH Meter | 3 | days | at | \$ | 35.00 | per day | \$ 105.00 |
| Conductivity Meter | 3 | days | at | \$ | 38.00 | per day | \$ 114.00 |
| Gator Rental | 3 | days | at | \$ | 140.00 | per week | \$ 420.00 |
| Disposable Teflon Bailers | 2 | cases | at | \$ | 189.00 | per case | \$ 378.00 |
| Disposables (Tubing, Gloves, Ropes etc) | 1 | each | at | \$ | 150.00 | per each | \$ 150.00 |
| | | | | | | | \$ 5,373.00 |
| Analytical (1 event) Assume Appendix I VOCs, Appendix I Metals, and Appendix II Semi's | | | | | | | |
| Appendix II - Volatiles | 23 | each | at | \$ | 115.00 | per each | \$ 2,645.00 |
| Appendix II - Semi Volatiles | 22 | each | at | \$ | 195.50 | per each | \$ 4,301.00 |
| Appendix II - Pesticides/PCB | 0 | each | at | \$ | 103.50 | per each | \$ - |
| Appendix II - Herbicides | 0 | each | at | \$ | 118.45 | per each | \$ - |
| Appendix II - Metals | 22 | each | at | \$ | 103.50 | per each | \$ 2,277.00 |
| Appendix II - CN | 0 | each | at | \$ | 41.40 | per each | \$ - |
| Appendix II - Sulfide | 0 | each | at | \$ | 17.25 | per each | \$ - |
| | | | | | | | \$ 9,223.00 |
| Reporting (1 event) | | | | | | | |
| Senior Professional (P5) | 2 | hour | at | \$ | 121.00 | per hour | \$ 242.00 |
| Registered Professional (P4) | 12 | hours | at | \$ | 110.00 | per hours | \$ 1,320.00 |
| Project Professional (P3) | 40 | hours | at | \$ | 99.00 | per hours | \$ 3,960.00 |
| CAD Operator | 8 | hours | at | \$ | 66.00 | per hours | \$ 528.00 |
| Administration | 4 | hours | at | \$ | 44.00 | per hours | \$ 176.00 |
| | | | | | | | \$ 6,226.00 |
| TASK 4 TOTAL | | | | | | | \$ 20,822.00 |

Corrective Action Estimate of Probable Cost (2011 Dollars)

Lincoln County Landfill
S&ME Project No. 1356-11-013

Assumed Scenario: Release at MSW Landfill, Monitored Natural Attenuation as Selected Remedy.

| TASK 5 | | | | | | | |
|---|------|-------|----|----|----------|-----------|---------------------|
| 15A NCAC 13B .1634 | | | | | | | |
| Installation of additional monitoring wells to characterize the nature and extent (N&E) of the plume | | | | | | | |
| Assume 6 shallow and 3 deep wells | | | | | | | |
| Drilling Services (12 days) | | | | | | | |
| Drill Rig Mobilization | 1 | each | at | \$ | 500.00 | per each | \$ 500.00 |
| Soil Test Boring (0-50 ft depth) 4.25 ID Augers | 300 | feet | at | \$ | 12.50 | per foot | \$ 3,750.00 |
| Auger Boring (0-50 ft depth) 4.25 ID Augers | 150 | feet | at | \$ | 8.00 | per foot | \$ 1,200.00 |
| Rock Coring - Set up, per hole | 3 | each | at | \$ | 131.25 | per each | \$ 393.75 |
| Installation of Temporary NW Casing | 150 | feet | at | \$ | 5.25 | per foot | \$ 787.50 |
| NQ Coring | 75 | feet | at | \$ | 42.00 | per foot | \$ 3,150.00 |
| Installation of Type II Monitor Well, 2-inch | 525 | feet | at | \$ | 26.25 | per foot | \$ 13,781.25 |
| Above Grade Protective Casing, 2-inch wells | 9 | each | at | \$ | 178.50 | per each | \$ 1,606.50 |
| Steam Cleaner | 12 | days | at | \$ | 131.25 | per day | \$ 1,575.00 |
| Grout Plant | 4 | day | at | \$ | 105.00 | per day | \$ 420.00 |
| Water Trailer | 12 | days | at | \$ | 78.75 | per day | \$ 945.00 |
| Non-drilling time (water hauling, decon, etc.) | 12 | hours | at | \$ | 110.00 | per hour | \$ 1,320.00 |
| | | | | | | | \$ 29,429.00 |
| Drilling Oversight (12 days) | | | | | | | |
| Project Professional (P3) | 120 | hours | at | \$ | 99.00 | per hour | \$ 11,880.00 |
| Mileage | 1200 | miles | at | \$ | 0.52 | per mile | \$ 624.00 |
| Water Level Meter | 12 | days | at | \$ | 30.00 | per day | \$ 360.00 |
| | | | | | | | \$ 12,864.00 |
| Well Development and Slug Testing (5 days) | | | | | | | |
| Project Professional (P3) | 50 | hours | at | \$ | 99.00 | per hour | \$ 4,950.00 |
| Mileage | 500 | miles | at | \$ | 0.52 | per mile | \$ 260.00 |
| Water Level Meter | 5 | days | at | \$ | 30.00 | per day | \$ 150.00 |
| Pressure Transducer and Data Logger | 3 | day | at | \$ | 50.00 | per day | \$ 150.00 |
| Battery Operated Well Pump | 5 | days | at | \$ | 25.00 | per day | \$ 125.00 |
| | | | | | | | \$ 5,635.00 |
| Soil Laboratory Classification (for porosity estimates) | | | | | | | |
| Atterburg Limits | 6 | each | at | \$ | 68.25 | per each | \$ 409.50 |
| Grain Size with Hydrometer | 6 | each | at | \$ | 99.75 | per each | \$ 598.50 |
| Specific Gravity | 6 | each | at | \$ | 47.25 | per each | \$ 283.50 |
| | | | | | | | \$ 1,291.50 |
| Well Survey | | | | | | | |
| Project Professional (P3) | 2 | hours | at | \$ | 99.00 | per hour | \$ 198.00 |
| Subcontracted Survey Cost | 1 | each | at | \$ | 5,000.00 | per each | \$ 5,000.00 |
| | | | | | | | \$ 5,198.00 |
| Boring Logs, Well Logs, and Estimation of Groundwater Flow | | | | | | | |
| Registered Professional (P4) | 8 | hours | at | \$ | 110.00 | per hours | \$ 880.00 |
| Project Professional (P3) | 40 | hours | at | \$ | 99.00 | per hours | \$ 3,960.00 |
| CAD Operator | 8 | hours | at | \$ | 66.00 | per hours | \$ 528.00 |
| Administration | 4 | hours | at | \$ | 44.00 | per hours | \$ 176.00 |
| | | | | | | | \$ 5,544.00 |
| TASK 5 TOTAL | | | | | | | \$ 59,961.50 |

Corrective Action Estimate of Probable Cost (2011 Dollars)

Lincoln County Landfill
S&ME Project No. 1356-11-013

Assumed Scenario: Release at MSW Landfill, Monitored Natural Attenuation as Selected Remedy.

| TASK 6 | | | | | | | |
|--|-----|-------|----|----|--------|-----------|---------------------|
| 15A NCAC 13B .1634 | | | | | | | |
| Appendix II Background Sampling of N&E Monitoring Network | | | | | | | |
| (4 events per sampling location) | | | | | | | |
| 9 N&E Well Locations, 2 Days to Sample | | | | | | | |
| Field Work (4 events) | | | | | | | |
| Technician Time (2 techs) | 160 | hours | at | \$ | 66.00 | per hour | \$ 10,560.00 |
| Mileage | 800 | miles | at | \$ | 0.52 | per mile | \$ 416.00 |
| Water Level Probe | 8 | days | at | \$ | 30.00 | per day | \$ 240.00 |
| pH Meter | 8 | days | at | \$ | 35.00 | per day | \$ 280.00 |
| Conductivity Meter | 8 | days | at | \$ | 38.00 | per day | \$ 304.00 |
| Gator Rental | 8 | days | at | \$ | 140.00 | per week | \$ 1,120.00 |
| Disposable Teflon Bailers | 3 | cases | at | \$ | 189.00 | per case | \$ 567.00 |
| Disposables (Tubing, Gloves, Ropes etc) | 1 | each | at | \$ | 600.00 | per each | \$ 600.00 |
| | | | | | | | \$ 14,087.00 |
| Analytical (4 events) | | | | | | | |
| Appendix II - Volatiles | 40 | each | at | \$ | 115.00 | per each | \$ 4,600.00 |
| Appendix II - Semi Volatiles | 36 | each | at | \$ | 195.50 | per each | \$ 7,038.00 |
| Appendix II - Pesticides/PCB | 36 | each | at | \$ | 103.50 | per each | \$ 3,726.00 |
| Appendix II - Herbicides | 36 | each | at | \$ | 118.45 | per each | \$ 4,264.20 |
| Appendix II - Metals | 36 | each | at | \$ | 103.50 | per each | \$ 3,726.00 |
| Appendix II - CN | 36 | each | at | \$ | 41.40 | per each | \$ 1,490.40 |
| Appendix II - Sulfide | 36 | each | at | \$ | 17.25 | per each | \$ 621.00 |
| | | | | | | | \$ 25,465.60 |
| Reporting (1 event) | | | | | | | |
| Senior Professional (P5) | 4 | hour | at | \$ | 121.00 | per hour | \$ 484.00 |
| Registered Professional (P4) | 24 | hours | at | \$ | 110.00 | per hours | \$ 2,640.00 |
| Project Professional (P3) | 40 | hours | at | \$ | 99.00 | per hours | \$ 3,960.00 |
| CAD Operator | 8 | hours | at | \$ | 66.00 | per hours | \$ 528.00 |
| Administration | 4 | hours | at | \$ | 44.00 | per hours | \$ 176.00 |
| | | | | | | | \$ 7,788.00 |
| TASK 6 TOTAL | | | | | | | \$ 47,340.60 |

Corrective Action Estimate of Probable Cost (2011 Dollars)

Lincoln County Landfill
S&ME Project No. 1356-11-013

Assumed Scenario: Release at MSW Landfill, Monitored Natural Attenuation as Selected Remedy.

| TASK 7 | | | | | | | |
|--|-----|-------|----|----|--------|-----------|---------------------|
| 15A NCAC 13B .1634 | | | | | | | |
| Appendix II Sampling of N&E Well Network Annually | | | | | | | |
| (First Semi-Annual Monitoring Event) | | | | | | | |
| 9 N&E Well Locations, 2 Days to Sample | | | | | | | |
| Field Work (1 event) | | | | | | | |
| Technician Time (2 techs) | 40 | hours | at | \$ | 66.00 | per hour | \$ 2,640.00 |
| Mileage | 200 | miles | at | \$ | 0.52 | per mile | \$ 104.00 |
| Water Level Probe | 2 | day | at | \$ | 30.00 | per day | \$ 60.00 |
| pH Meter | 2 | day | at | \$ | 35.00 | per day | \$ 70.00 |
| Conductivity Meter | 2 | day | at | \$ | 38.00 | per day | \$ 76.00 |
| Gator Rental | 2 | day | at | \$ | 140.00 | per week | \$ 280.00 |
| Disposable Teflon Bailers | 1 | case | at | \$ | 189.00 | per case | \$ 189.00 |
| Disposables (Tubing, Gloves, Ropes etc) | 1 | each | at | \$ | 200.00 | per each | \$ 200.00 |
| | | | | | | | \$ 3,619.00 |
| Analytical (1 event) | | | | | | | |
| Appendix II - Volatiles | 10 | each | at | \$ | 115.00 | per each | \$ 1,150.00 |
| Appendix II - Semi Volatiles | 9 | each | at | \$ | 195.50 | per each | \$ 1,759.50 |
| Appendix II - Pesticides/PCB | 9 | each | at | \$ | 103.50 | per each | \$ 931.50 |
| Appendix II - Herbicides | 9 | each | at | \$ | 118.45 | per each | \$ 1,066.05 |
| Appendix II - Metals | 9 | each | at | \$ | 103.50 | per each | \$ 931.50 |
| Appendix II - CN | 9 | each | at | \$ | 41.40 | per each | \$ 372.60 |
| Appendix II - Sulfide | 9 | each | at | \$ | 17.25 | per each | \$ 155.25 |
| | | | | | | | \$ 6,366.40 |
| Reporting (1 event) | | | | | | | |
| Senior Professional (P5) | 2 | hour | at | \$ | 121.00 | per hour | \$ 242.00 |
| Registered Professional (P4) | 8 | hours | at | \$ | 110.00 | per hours | \$ 880.00 |
| Project Professional (P3) | 40 | hours | at | \$ | 99.00 | per hours | \$ 3,960.00 |
| CAD Operator | 8 | hours | at | \$ | 66.00 | per hours | \$ 528.00 |
| Administration | 4 | hours | at | \$ | 44.00 | per hours | \$ 176.00 |
| | | | | | | | \$ 5,786.00 |
| TASK 7 TOTAL | | | | | | | \$ 15,771.40 |

Corrective Action Estimate of Probable Cost (2011 Dollars)

Lincoln County Landfill
S&ME Project No. 1356-11-013

Assumed Scenario: Release at MSW Landfill, Monitored Natural Attenuation as Selected Remedy.

| TASK 8 | | | | | | | |
|---|-----|-------|----|----|--------|-----------|---------------------|
| 15A NCAC 13B .1634 | | | | | | | |
| Appendix I and II Detects Sampling of N&E Well Network Annually | | | | | | | |
| (Second Semi-Annual Monitoring Event) | | | | | | | |
| 9 N&E Well Locations, 2 Days to Sample | | | | | | | |
| Field Work (1 event) | | | | | | | |
| Technician Time (2 techs) | 40 | hours | at | \$ | 66.00 | per hour | \$ 2,640.00 |
| Mileage | 200 | miles | at | \$ | 0.52 | per mile | \$ 104.00 |
| Water Level Probe | 2 | day | at | \$ | 30.00 | per day | \$ 60.00 |
| pH Meter | 2 | day | at | \$ | 35.00 | per day | \$ 70.00 |
| Conductivity Meter | 2 | day | at | \$ | 38.00 | per day | \$ 76.00 |
| Gator Rental | 2 | day | at | \$ | 140.00 | per week | \$ 280.00 |
| Disposable Teflon Bailers | 1 | case | at | \$ | 189.00 | per case | \$ 189.00 |
| Disposables (Tubing, Gloves, Ropes etc) | 1 | each | at | \$ | 150.00 | per each | \$ 150.00 |
| | | | | | | | \$ 3,569.00 |
| Analytical (1 event) Assume Appendix I VOCs, Appendix I Metals, and Appendix II Semi's | | | | | | | |
| Appendix II - Volatiles | 10 | each | at | \$ | 115.00 | per each | \$ 1,150.00 |
| Appendix II - Semi Volatiles | 9 | each | at | \$ | 195.50 | per each | \$ 1,759.50 |
| Appendix II - Pesticides/PCB | 0 | each | at | \$ | 103.50 | per each | \$ - |
| Appendix II - Herbicides | 0 | each | at | \$ | 118.45 | per each | \$ - |
| Appendix II - Metals | 9 | each | at | \$ | 103.50 | per each | \$ 931.50 |
| Appendix II - CN | 0 | each | at | \$ | 41.40 | per each | \$ - |
| Appendix II - Sulfide | 0 | each | at | \$ | 17.25 | per each | \$ - |
| | | | | | | | \$ 3,841.00 |
| Reporting (1 event) | | | | | | | |
| Senior Professional (P5) | 2 | hour | at | \$ | 121.00 | per hour | \$ 242.00 |
| Registered Professional (P4) | 8 | hours | at | \$ | 110.00 | per hours | \$ 880.00 |
| Project Professional (P3) | 40 | hours | at | \$ | 99.00 | per hours | \$ 3,960.00 |
| CAD Operator | 8 | hours | at | \$ | 66.00 | per hours | \$ 528.00 |
| Administration | 4 | hours | at | \$ | 44.00 | per hours | \$ 176.00 |
| | | | | | | | \$ 5,786.00 |
| TASK 8 TOTAL | | | | | | | \$ 13,196.00 |

Corrective Action Estimate of Probable Cost (2011 Dollars)

Lincoln County Landfill
S&ME Project No. 1356-11-013

Assumed Scenario: Release at MSW Landfill, Monitored Natural Attenuation as Selected Remedy.

| TASK 9 | | | | | | | |
|--|-----|-------|----|----|----------|-----------|---------------------|
| 15A NCAC 13B .1635 | | | | | | | |
| Assessment of Corrective Measures | | | | | | | |
| (Report, Public Notice, Public Meeting) | | | | | | | |
| ACM Report | | | | | | | |
| Senior Professional (P5) | 10 | hours | at | \$ | 121.00 | per hour | \$ 1,210.00 |
| Registered Professional (P4) | 120 | hours | at | \$ | 110.00 | per hours | \$ 13,200.00 |
| Project Professional (P3) | 120 | hours | at | \$ | 99.00 | per hours | \$ 11,880.00 |
| CAD Operator | 40 | hours | at | \$ | 66.00 | per hours | \$ 2,640.00 |
| Administration | 8 | hours | at | \$ | 44.00 | per hours | \$ 352.00 |
| | | | | | | | <u>\$ 29,282.00</u> |
| Public Notice | | | | | | | |
| Senior Professional (P5) | 0.5 | hour | at | \$ | 121.00 | per hour | \$ 60.50 |
| Registered Professional (P4) | 12 | hours | at | \$ | 110.00 | per hours | \$ 1,320.00 |
| Administration | 4 | hours | at | \$ | 44.00 | per hours | \$ 176.00 |
| Estimated Advertisement Costs | 1 | each | at | \$ | 1,500.00 | per each | \$ 1,500.00 |
| | | | | | | | <u>\$ 3,056.50</u> |
| Public Meeting | | | | | | | |
| Senior Professional (P5) | 8 | hours | at | \$ | 121.00 | per hour | \$ 968.00 |
| Registered Professional (P4) | 24 | hours | at | \$ | 110.00 | per hours | \$ 2,640.00 |
| | | | | | | | <u>\$ 3,608.00</u> |
| TASK 9 TOTAL | | | | | | | \$ 35,946.50 |

| TASK 10 | | | | | | | |
|--|----|-------|----|----|-----------|-----------|---------------------|
| 15A NCAC 13B .1636 | | | | | | | |
| Selection of Remedy | | | | | | | |
| Permit Modification Application | | | | | | | |
| Senior Professional (P5) | 4 | hours | at | \$ | 121.00 | per hour | \$ 484.00 |
| Registered Professional (P4) | 40 | hours | at | \$ | 110.00 | per hours | \$ 4,400.00 |
| Administration | 4 | hours | at | \$ | 44.00 | per hours | \$ 176.00 |
| | | | | | | | <u>\$ 5,060.00</u> |
| Permit Modification Fee | | | | | | | |
| Estimated Fee | 1 | each | at | \$ | 15,000.00 | per each | \$ 15,000.00 |
| | | | | | | | <u>\$ 15,000.00</u> |
| TASK 10 TOTAL | | | | | | | \$ 20,060.00 |

Corrective Action Estimate of Probable Cost (2011 Dollars)

Lincoln County Landfill
S&ME Project No. 1356-11-013

Assumed Scenario: Release at MSW Landfill, Monitored Natural Attenuation as Selected Remedy.

| TASK 11 | | | | | | | |
|---|------|-------|----|----|----------|-----------|--------------|
| 15A NCAC 13B .1636 and .1637 | | | | | | | |
| Corrective Action Plan Submittal, Approval, and Implementation | | | | | | | |
| CAP Report | | | | | | | |
| Senior Professional (P5) | 12 | hours | at | \$ | 121.00 | per hour | \$ 1,452.00 |
| Registered Professional (P4) | 40 | hours | at | \$ | 110.00 | per hours | \$ 4,400.00 |
| Project Professional (P3) | 40 | hours | at | \$ | 99.00 | per hours | \$ 3,960.00 |
| CAD Operator | 8 | hours | at | \$ | 66.00 | per hours | \$ 528.00 |
| Administration | 4 | hours | at | \$ | 44.00 | per hours | \$ 176.00 |
| | | | | | | | \$ 10,516.00 |
| CAP Implementation (Assume MNA) | | | | | | | |
| Baseline Sampling of MNA Performance Parameters | | | | | | | |
| (Assume 1 background well, 14 performance wells, and 5 sentinel wells) | | | | | | | |
| Field Work (4 events, 3 days per event) | | | | | | | |
| Technician Time (2 techs) | 240 | hours | at | \$ | 66.00 | per hour | \$ 15,840.00 |
| Mileage | 1200 | miles | at | \$ | 0.52 | per mile | \$ 624.00 |
| Water Level Probe | 12 | days | at | \$ | 30.00 | per day | \$ 360.00 |
| Multi-parameter meter with flow cell (Hydrolab) | 12 | days | at | \$ | 125.00 | per day | \$ 1,500.00 |
| Hydrolab Calibration Consumables | 4 | each | at | \$ | 90.00 | per each | \$ 360.00 |
| Turbidity Meter | 12 | days | at | \$ | 35.00 | per day | \$ 420.00 |
| Gator Rental | 4 | weeks | at | \$ | 140.00 | per week | \$ 560.00 |
| Bladder Pump (including controls) | 12 | days | at | \$ | 135.00 | per day | \$ 1,620.00 |
| Disposable Bladders (pack of 10) | 8 | each | at | \$ | 115.00 | per each | \$ 920.00 |
| Dedicated Tubing (1 time expense) | 1 | each | at | \$ | 4,500.00 | per each | \$ 4,500.00 |
| | | | | | | | \$ 26,704.00 |
| Analytical (4 events) | | | | | | | |
| Nitrate | 80 | each | at | \$ | 17.25 | per each | \$ 1,380.00 |
| Iron | 80 | each | at | \$ | 13.80 | per each | \$ 1,104.00 |
| Sulfate | 80 | each | at | \$ | 19.55 | per each | \$ 1,564.00 |
| Sulfide | 80 | each | at | \$ | 17.25 | per each | \$ 1,380.00 |
| Methane, Ethane, Ethene, CO2 | 80 | each | at | \$ | 126.50 | per each | \$ 10,120.00 |
| TOC/BOD/COD | 80 | each | at | \$ | 126.50 | per each | \$ 10,120.00 |
| Alkalinity | 80 | each | at | \$ | 17.25 | per each | \$ 1,380.00 |
| Chloride | 80 | each | at | \$ | 17.25 | per each | \$ 1,380.00 |
| Volatile Fatty Acids | 80 | each | at | \$ | 126.50 | per each | \$ 10,120.00 |
| | | | | | | | \$ 38,548.00 |
| Reporting and MNA Screening Model (4 events) | | | | | | | |
| Senior Professional (P5) | 32 | hour | at | \$ | 121.00 | per hour | \$ 3,872.00 |
| Registered Professional (P4) | 160 | hours | at | \$ | 110.00 | per hours | \$ 17,600.00 |
| Project Professional (P3) | 128 | hours | at | \$ | 99.00 | per hours | \$ 12,672.00 |
| CAD Operator | 24 | hours | at | \$ | 66.00 | per hours | \$ 1,584.00 |
| Administration | 16 | hours | at | \$ | 44.00 | per hours | \$ 704.00 |
| | | | | | | | \$ 36,432.00 |

Corrective Action Estimate of Probable Cost (2011 Dollars)

Lincoln County Landfill
S&ME Project No. 1356-11-013

Assumed Scenario: Release at MSW Landfill, Monitored Natural Attenuation as Selected Remedy.

MNA Effectiveness Sampling and Reporting

(Assume 1 background well, 14 performance wells, and 5 sentinel wells to be sampled semi-annually for 30 years)

Field Work (40 events, 3 days per event)

| | | | | | | | | | |
|---|-------|-------|----|----|--------|-----|------|----|------------|
| Technician Time (2 techs) | 3600 | hours | at | \$ | 66.00 | per | hour | \$ | 237,600.00 |
| Mileage | 18000 | miles | at | \$ | 0.52 | per | mile | \$ | 9,360.00 |
| Water Level Probe | 180 | days | at | \$ | 30.00 | per | day | \$ | 5,400.00 |
| Multi-parameter meter with flow cell (Hydrolab) | 180 | days | at | \$ | 125.00 | per | day | \$ | 22,500.00 |
| Hydrolab Calibration Consumables | 60 | each | at | \$ | 90.00 | per | each | \$ | 5,400.00 |
| Turbidity Meter | 180 | days | at | \$ | 35.00 | per | day | \$ | 6,300.00 |
| Gator Rental | 60 | weeks | at | \$ | 140.00 | per | week | \$ | 8,400.00 |
| Bladder Pump (including controls) | 180 | days | at | \$ | 135.00 | per | day | \$ | 24,300.00 |
| Disposable Bladders (pack of 10) | 120 | each | at | \$ | 115.00 | per | each | \$ | 13,800.00 |
| | | | | | | | | \$ | 333,060.00 |

Analytical (40 events)

| | | | | | | | | | |
|------------------------------|------|------|----|----|--------|-----|------|----|--------------|
| Appendix II - Volatiles | 1260 | each | at | \$ | 115.00 | per | each | \$ | 144,900.00 |
| Appendix II - Semi Volatiles | 1200 | each | at | \$ | 195.50 | per | each | \$ | 234,600.00 |
| Appendix II - Metals | 1200 | each | at | \$ | 103.50 | per | each | \$ | 124,200.00 |
| Nitrate | 1200 | each | at | \$ | 17.25 | per | each | \$ | 20,700.00 |
| Iron | 1200 | each | at | \$ | 13.80 | per | each | \$ | 16,560.00 |
| Sulfate | 1200 | each | at | \$ | 19.55 | per | each | \$ | 23,460.00 |
| Sulfide | 1200 | each | at | \$ | 17.25 | per | each | \$ | 20,700.00 |
| Methane, Ethane, Ethene, CO2 | 1200 | each | at | \$ | 126.50 | per | each | \$ | 151,800.00 |
| TOC/BOD/COD | 1200 | each | at | \$ | 126.50 | per | each | \$ | 151,800.00 |
| Alkalinity | 1200 | each | at | \$ | 17.25 | per | each | \$ | 20,700.00 |
| Chloride | 1200 | each | at | \$ | 17.25 | per | each | \$ | 20,700.00 |
| Volatile Fatty Acids | 1200 | each | at | \$ | 126.50 | per | each | \$ | 151,800.00 |
| | | | | | | | | \$ | 1,081,920.00 |

Corrective Action Evaluation Report (6 reports, 1 report every 5 years)

| | | | | | | | | | |
|------------------------------|-----|-------|----|----|--------|-----|-------|----|-----------|
| Senior Professional (P5) | 60 | hour | at | \$ | 121.00 | per | hour | \$ | 7,260.00 |
| Registered Professional (P4) | 360 | hours | at | \$ | 110.00 | per | hours | \$ | 39,600.00 |
| Project Professional (P3) | 240 | hours | at | \$ | 99.00 | per | hours | \$ | 23,760.00 |
| CAD Operator | 48 | hours | at | \$ | 66.00 | per | hours | \$ | 3,168.00 |
| Administration | 30 | hours | at | \$ | 44.00 | per | hours | \$ | 1,320.00 |
| | | | | | | | | \$ | 75,108.00 |

TASK 11 TOTAL

\$ 1,602,288.00

Corrective Action Estimate of Probable Cost (2011 Dollars)

Lincoln County Landfill
S&ME Project No. 1356-11-013

Assumed Scenario: Release at MSW Landfill, Monitored Natural Attenuation as Selected Remedy.

| TASK 12 | | | | | | | |
|--|-----|-------|----|----|----------|-----------|---------------------|
| 15A NCAC 13B .1636 and .1637 | | | | | | | |
| Installation of Additional Monitoring Wells to Monitor Effectiveness of Selected Remedy | | | | | | | |
| Installation of 3 Performance Wells and 3 Sentinel Wells | | | | | | | |
| Drilling Services (7 days) | | | | | | | |
| Drill Rig Mobilization | 1 | each | at | \$ | 500.00 | per each | \$ 500.00 |
| Soil Test Boring (0-50 ft depth) 4.25 ID Augers | 300 | feet | at | \$ | 12.50 | per foot | \$ 3,750.00 |
| Installation of Type II Monitor Well, 2-inch | 300 | feet | at | \$ | 26.25 | per foot | \$ 7,875.00 |
| Above Grade Protective Casing, 2-inch wells | 6 | each | at | \$ | 178.50 | per each | \$ 1,071.00 |
| Steam Cleaner | 7 | days | at | \$ | 131.25 | per day | \$ 918.75 |
| Grout Plant | 3 | day | at | \$ | 105.00 | per day | \$ 315.00 |
| Non-drilling time (water hauling, decon, etc.) | 7 | hours | at | \$ | 110.00 | per hour | \$ 770.00 |
| | | | | | | | \$ 15,199.75 |
| Drilling Oversight (7 days) | | | | | | | |
| Project Professional (P3) | 70 | hours | at | \$ | 99.00 | per hour | \$ 6,930.00 |
| Mileage | 700 | miles | at | \$ | 0.52 | per mile | \$ 364.00 |
| Water Level Meter | 7 | days | at | \$ | 30.00 | per day | \$ 210.00 |
| | | | | | | | \$ 7,504.00 |
| Well Development and Slug Testing (4 days) | | | | | | | |
| Project Professional (P3) | 40 | hours | at | \$ | 99.00 | per hour | \$ 3,960.00 |
| Mileage | 400 | miles | at | \$ | 0.52 | per mile | \$ 208.00 |
| Water Level Meter | 4 | days | at | \$ | 30.00 | per day | \$ 120.00 |
| Pressure Transducer and Data Logger | 2 | day | at | \$ | 50.00 | per day | \$ 100.00 |
| Battery Operated Well Pump | 4 | days | at | \$ | 25.00 | per day | \$ 100.00 |
| | | | | | | | \$ 4,488.00 |
| Soil Laboratory Classification (for porosity estimates) | | | | | | | |
| Atterburg Limits | 6 | each | at | \$ | 68.25 | per each | \$ 409.50 |
| Grain Size with Hydrometer | 6 | each | at | \$ | 99.75 | per each | \$ 598.50 |
| Specific Gravity | 6 | each | at | \$ | 47.25 | per each | \$ 283.50 |
| | | | | | | | \$ 1,291.50 |
| Well Survey | | | | | | | |
| Project Professional (P3) | 2 | hours | at | \$ | 99.00 | per hour | \$ 198.00 |
| Subcontracted Survey Cost | 1 | each | at | \$ | 3,500.00 | per each | \$ 3,500.00 |
| | | | | | | | \$ 3,698.00 |
| Boring Logs, Well Logs, and Estimation of Groundwater Flow | | | | | | | |
| Registered Professional (P4) | 8 | hours | at | \$ | 110.00 | per hours | \$ 880.00 |
| Project Professional (P3) | 40 | hours | at | \$ | 99.00 | per hours | \$ 3,960.00 |
| CAD Operator | 8 | hours | at | \$ | 66.00 | per hours | \$ 528.00 |
| Administration | 4 | hours | at | \$ | 44.00 | per hours | \$ 176.00 |
| | | | | | | | \$ 5,544.00 |
| TASK 12 TOTAL | | | | | | | \$ 37,725.25 |

Corrective Action Estimate of Probable Cost (2011 Dollars)

Lincoln County Landfill
 S&ME Project No. 1356-11-013

Assumed Scenario: Release at MSW Landfill, Monitored Natural Attenuation as Selected Remedy.

| | | | | | | | |
|--|---|------|----|-------------|-----|------|--------------------|
| TASK 13 | | | | | | | |
| 15A NCAC 13B .1636 and .1637 | | | | | | | |
| Maintenance and Repair of Additional Monitoring Wells | | | | | | | |
| <u>Assume Repair of 5 Protective Covers</u> | | | | | | | |
| Drilling Services | | | | | | | |
| Repair of Protective Cover (Lump Sum) | 5 | each | at | \$ 1,500.00 | per | each | \$ 7,500.00 |
| | | | | | | | \$ 7,500.00 |
| TASK 13 TOTAL | | | | | | | \$ 7,500.00 |

| | | | | | | | |
|---|--|--|--|--|--|--|-------------|
| TASK 14 | | | | | | | |
| 15A NCAC 13B .1636 and .1637 | | | | | | | |
| Sampling and Analysis of Additional Monitoring Wells | | | | | | | |
| This item is included in Task 11 | | | | | | | |
| TASK 14 TOTAL | | | | | | | \$ - |

| | | | | | | | |
|---|----|-------|----|-----------|-----|-------|---------------------|
| TASK 15 | | | | | | | |
| 15A NCAC 13B .1637 | | | | | | | |
| Corrective Action Remedy is Complete | | | | | | | |
| Report Demonstrating Corrective Action is Complete | | | | | | | |
| Senior Professional (P5) | 12 | hour | at | \$ 121.00 | per | hour | \$ 1,452.00 |
| Registered Professional (P4) | 40 | hours | at | \$ 110.00 | per | hours | \$ 4,400.00 |
| Project Professional (P3) | 32 | hours | at | \$ 99.00 | per | hours | \$ 3,168.00 |
| CAD Operator | 16 | hours | at | \$ 66.00 | per | hours | \$ 1,056.00 |
| Administration | 6 | hours | at | \$ 44.00 | per | hours | \$ 264.00 |
| | | | | | | | \$ 10,340.00 |
| TASK 15 TOTAL | | | | | | | \$ 10,340.00 |