Please find below Tetra Tech’s cost estimates and project assumptions.

Estimated Total: $568,551.14

The tables below outline the anticipated level of effort.

**Table 1: Estimated Cost Breakdown for Labor**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Labor Category** | **Unit** | **Billing Rates** | **Estimated Hours/Days** | **Estimated Total** |
| Program Manager | Per Hour Per Person | $174.90 | 258 | $45,124.20 |
| Health and Safety Officer | Per Hour Per Person | $111.30 | 27 | $3,005.10 |
| Registered Professional Forester (RPF) | Per Hour Per Person | $148.40 | 60 | $8,904.00 |
| Registered Professional Forester (RPF) Designee | Per Hour Per Person | $132.50 | 119 | $15,767.50 |
| Arborist (TRAQ) | Per Hour Per Person | $127.20 | 110 | $13,992.00 |
| Division Supervisor (DS) | Per Hour Per Person | $90.10 | 409 | $36,850.90 |
| Task Force Leader/ Debris Assessments or Removal Monitor | Per Hour Per Person | $73.14 | 494 | $36,131.16 |
| Task Force Leader/ Hazard Tree Assessments or Tree Removal Monitor | Per Hour Per Person | $76.32 | 293 | $22,361.76 |
| Task Force Leader/ Materials Receiving Facilities | Per Hour Per Person | $79.50 | 739 | $58,750.50 |
| Certified Asbestos Consultant (CAC) | Per Hour Per Person | $143.10 | 66 | $9,444.60 |
| Environmental Group Supervisor/ Site Assessment/ Soil Sampling | Per Hour Per Person | $132.50 | 57 | $7,552.50 |
| Environmental Group Supervisor/ Air Quality | Per Hour Per Person | $127.20 | 33 | $4,197.60 |
| Environmental Group Manager/ Senior Environmental Specialist  | Per Hour Per Person | $148.40 | 61 | $9,052.40 |
| Environmental Unit Leader/ Site Assessment/ Soil Sampling | Per Hour Per Person | $106.00 | 114 | $12,084.00 |
| Environmental Unit Leader/ Air Quality | Per Hour Per Person | $121.90 | 290 | $35,351.00 |
| Data/ Packet Manager | Per Hour Per Person | $79.50 | 278 | $22,101.00 |
| Planning Section Chief (PSC) | Per Hour Per Person | $121.90 | 152 | $18,528.80 |
| GIS Professional | Per Hour Per Person | $58.30 | 48 | $2,798.40 |
| Finance Section Chief (FSC)  | Per Hour Per Person | $137.80 | 19 | $2,618.20 |
| Deputy Finance Section Chief (DSFC) | Per Hour Per Person | $90.10 | 63 | $5,676.30 |
| Office Accounting and Administrative Staff | Per Hour Per Person | $66.78 | 419 | $27,980.82 |
| Senior Biologist | Per Hour Per Person | $143.10 | 54 | $7,727.40 |
| Biologist | Per Hour Per Person | $121.90 | 299 | $36,448.10 |
| Senior Archaeologist | Per Hour Per Person | $159.00 | 36 | $5,724.00 |
| Archaeologist | Per Hour Per Person | $121.90 | 329 | $40,105.10 |
| Truck Inspection Crews (DOT Level 1) | Per Inspection Crew Per Day | $2,968.00 | 4 | $11,872.00 |
| **Estimated Labor Total** |  |  |  | **$500,149.34** |

**Table 2: Estimated Cost Breakdown for Non-Labor**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Non-Labor Category** | **Unit** | **Billing Rates** | **Estimated Quantity** | **Estimated Total** |
| Signage | Per Sign | $21.20 | 7 | $148.40 |
| GPS Tracking of Commercial Fleet | Per GPS Unit | $5.30 | 11 | $58.30 |
| Standard Laboratory Costs – Soil Test Methods (EPA Method 6020 with a moisture analysis ASTM method D2216-19) | Per Chain of Custody Per Sample Event | $1,007.00 | 26 | $26,182.00 |
| Standard Laboratory Costs – Water Test Methods (EPA 6020 (metals), EPA 8015C (TPH), and EPA 8260B (VOCs)) | Per Chain of Custody Per Sample Event | $636.00 | 2 | $1,272.00 |
| Standard Laboratory Costs – Asbestos Test Methods (EPA Method 600/R-93/116) | Per Chain of Custody Per Sample Event | $2,067.00 | 5 | $10,335.00 |
| Air Monitoring Equipment and Standard Laboratory Analyses – Particulate and Title 22 metals (including continuous monitoring dust trackers and portable electric generator sets, laboratory costs, and support materials). (This line item also includes PM10 and PM2.5 particulate fugitive dust analyses.) | Per Sampling Day | $424.00 | 67 | $28,408.00 |
| Advance Sampling – Asbestos NIOSH Method 7400 | Per Chain of Custody Per Sample Event | $47.70 | 33 | $1,574.10 |
| Advance Sampling – Asbestos NIOSH Method 7402 | Per Chain of Custody Per Sample Event | $212.00 | 2 | $424.00 |
| **Estimated Non-Labor Total** |  |  |  | **$68,401.80** |

*The above estimated level of effort and associated costs are based on available information at the time the estimates were prepared and do not represent the actual cost of the project.*

*The fee for the services will be based on the actual hours/quantities of services furnished multiplied by Tetra Tech's billing rates.*

**Project Assumptions:**

Changes to these assumptions, expansion of scope of work, or debris contractor efficiency may impact the cost estimate.

* 7 parcels with up to 20 structures
* 500 Hazard Trees
* 85 soil samples: 15 background, 60 confirmation and 10 re-scrape confirmation
* 1 debris removal crew, up to 10 hauling trucks, 1 water truck.
* Truck Certifications - Assumes DDHTR contractor will have all trucks able to be inspected and certified in 4 days
* Debris removal timeline per 6 APNs - 2 days/APN; 12 days total
* One multi-structure, 40 plus vehicle APN debris removal timeline - 6 days
* Assumes 6-Day work week (Off Sundays)
* Re-scrape rate - 50% (4 APNs) - 2 days
* 4 end use facilities (ash/debris/contaminated soil, metals, concrete, vegetative debris)
* End use facilities are greater than 2 hours away reducing the truck loads to one per truck per day
* Hazard Tree Assessments - 2 teams - 50 trees per day per team
* Remote Planning Section Chief position - part time
* Vehicle adjudications will be completed prior to debris removal by law enforcement.
* No DDHTR facility pre- and post-assessment and sampling required.
* Program manager will also serve as IC and OSC for efficiency with support from Division Supervisor.
* 50% parcels have archaeological resources which require monitoring.
* 60% of parcels require biological monitoring.
* Tree removal activities started one week after debris removal start date. Assumes tree removal will continue between debris removal and re-scrapes.
* Erosion control will be performed after debris removal is completed on all parcels.
* Tribal Coordination not requested and not included as part of this estimate.
* Land Surveyor available upon request and not included as part of this estimate.