

June 29, 2020

Mr. John Hnat
Wisconsin Department of Natural Resources
2300 North Dr. Martin Luther King Jr. Drive
Milwaukee, WI 53212

RE: Change Order #5, Revisions
Master Drycleaning Inc.
6326 West Bluemound Road
Wauwatosa, WI
BRRTS # 02-41-545142

Dear Mr. Hnat:

Three additional wells (MW-15, MW-16, and MW-17) were installed in December 2018 to define the extent of soil and groundwater contamination at the site listed above. Based on the soil and groundwater results from these wells and results from previously installed wells, additional soil borings and groundwater monitoring wells will need to be installed to define the extent of contamination. Additionally, the cost of chemicals for the EZVI injection, described in Change Order #4, has increased. The additional cost is included in this change order. This report summarizes the scope of work and DERF budget needed to take this project to case closure.

The following DERF-eligible tasks, actions, and costs are proposed:

- Task 0/Task 100: Project Management
- Task 3/Task 103: Addition of EZVI/DHC Bacteria
- Task 105: Well Installation and Soil Sampling to Delineate Extent
- Task 6/106: Groundwater Monitoring
- Task 7/107: Groundwater Monitoring Status Reports
- Task 9/109: Well Abandonment

Details follow on a Task by Task basis.

DERF Scope of Work

Task 0/Task 100: Project Management

Due to the increased scope, additional time is needed to continue correspondence, off-site property owner sharing of information, access to the City of Wauwatosa right of way for well installations and permits/permission, updates, bidding, and overall management of the project scope and budget.

Task 3/Task 103: Addition of EZVI/DHC Bacteria

Fehr Graham was notified by the chemical contractor that the cost of the chemicals for the EZVI injection, described in Change Order #4, has increased. The scope for this task has not changed.

Task 105: Well Installation and Soil Sampling to Delineate Extent

Additional soil and groundwater investigation north of MW-16 and to the west of North 64th Street is proposed. Three, 2.5-inch outside diameter macrocore geoprobe borings will be advanced at locations approximately 100 feet north MW-16, approximately 60 feet west of SMW-10, and approximately 40 feet west of SMW-14. Existing monitoring well SMW-13 already defines the extent of impacts straight north of well SMW-11.

The three proposed wells (MW-18, MW-19, and MW-20) will be installed within the west side of N. 64th Street right of way in the grass buffer just west of 64th Street and permission will be obtained from the City of Wauwatosa. Proposed well MW-18 will be installed in the right of way adjacent to 519 N. 64th Street. Proposed well MW-19 will be installed in the right of way adjacent to 533 N. 64th Street. Proposed well MW-20 will be installed in the right of way adjacent to 559 N. 64th Street.

At each drilling location, a boring will be advanced to a depth of 20 feet, geologically logged, and a small diameter monitoring well will be installed with a 10-foot screened interval and filter pack sand/bentonite surface seal. The wells will be completed flush with the ground surface and protected using a 4-inch diameter traffic weight cover. Two soil samples per boring will be retained for laboratory analysis of VOCs (six total).

The wells will be added to the monitoring well network for the site and will be surveyed and developed. On May 28, 2018, the WDNR provided a variance from the NR141 well construction code that is necessary for use of small diameter wells MW-15, MW-16, and MW-17. Another variance from the NR141 well construction code is requested for the installation of monitoring wells MW-18, MW-19, and MW-20.

The three new monitoring wells (MW-18 to MW-20) are proposed to be installed during the previously approved EZVI and DHC bacteria geoprobe injection. The injection was approved as part of Change Order #4.

Task 106: Groundwater Monitoring

Following injection, two more rounds of groundwater sampling are expected to be necessary, one a minimum of four months after the proposed injection, and the second approximately eight months after injection. These two rounds of groundwater sampling have already been approved in Change Order #4 and the costs of sampling the additional three proposed wells will be added to the approved costs. Sampling will be completed from all 22 existing and three proposed wells, and will include testing for field parameters, water level elevations, and laboratory analysis of VOCs.

Task 107: Groundwater Monitoring Status Reports

Upon receipt of each round of the laboratory analyses, the data will be tabulated and plotted. After the additional soil borings and injection is complete, a summary report, including the results of the soil and groundwater chemistry testing from the new locations, will be sent to the DNR.

As has been performed after each sample event, information will be sent to the private well owners that have monitoring wells on their property.

After each full round of groundwater sampling, the data will be processed and a summary sent to the DNR via email. Assuming the results appear suitable, a request for case closure will be recommended after the second.

A majority of the reporting costs were approved in Change Order #4, and the costs of data entry, evaluation, and reporting for the additional three wells will be added to the approved costs.

Task 109: Well Abandonment

With the installation of additional monitoring wells, three wells, there will be more cost associated with well abandonment upon closure of the project.

Schedule

Assuming approval can be provided in June 2020, the project schedule is broken out as follows:

| | |
|----------------|--|
| June 2020 | Approval |
| July 2020 | Injection and Additional Soil Borings/Well Installation |
| November 2020 | Groundwater Sampling All Wells, 4 months after Injection |
| November 2020 | Data Evaluation/Reporting |
| March 2021 | Groundwater Sampling All Wells, 8 months after Injection |
| March 2021 | Data Evaluation/Report/Closure Potential |
| May 2021 | If approved by DNR, Closure Request Submittal |
| July 2021 | DNR Closure Provided |
| August 2021 | Well Abandonment, VPLE Insurance Requested |
| September 2021 | WDNR Issues VPLE Certificate of Closure |

Authorization

I trust this information meets your needs and look forward to approval of the attached cost estimate and budget request.

Sincerely,



Matt Dahlem, PG
Branch Manager

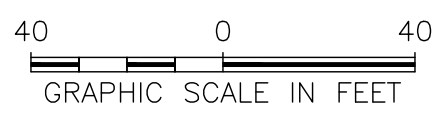
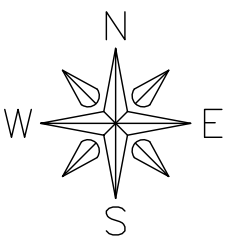
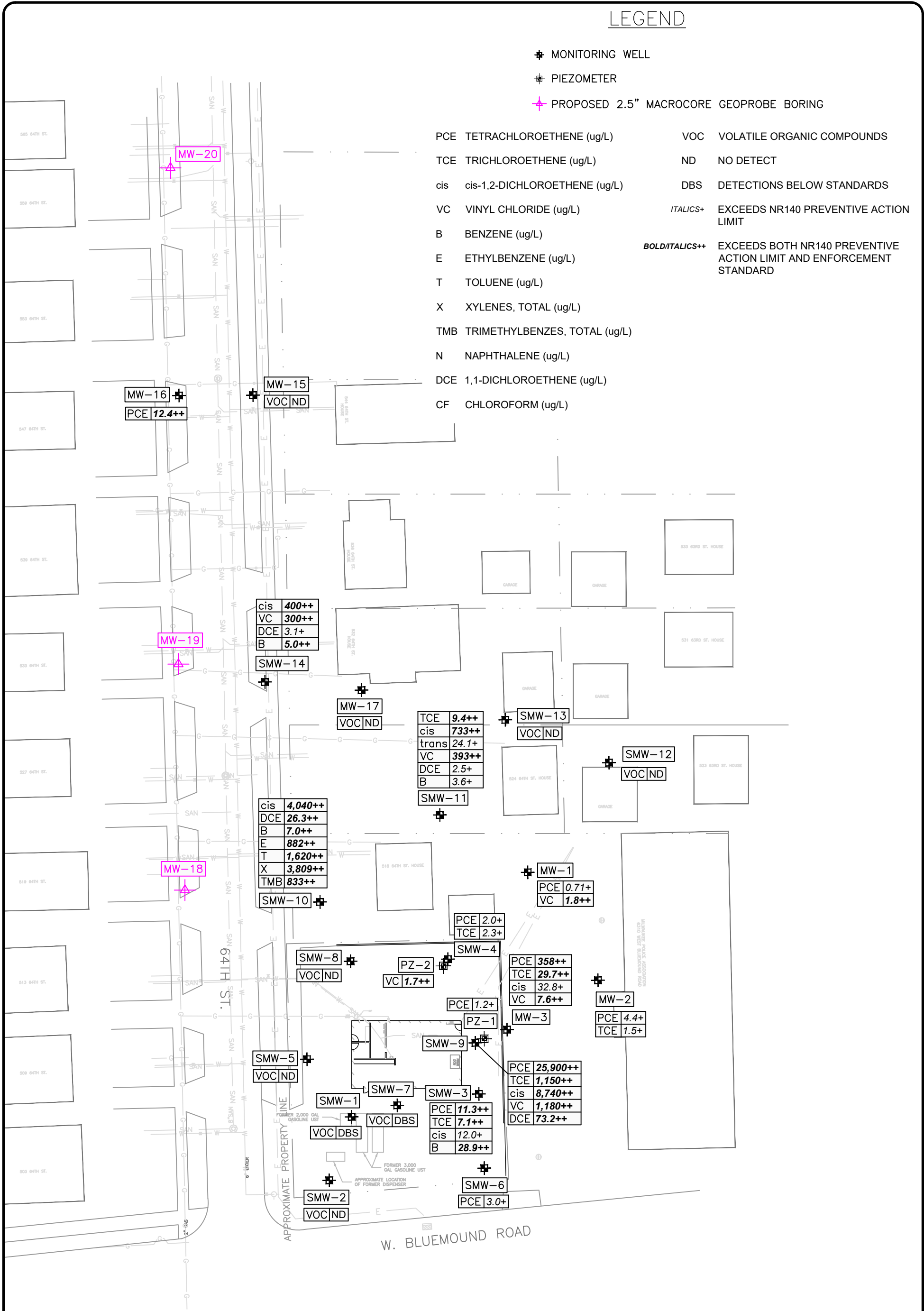
Attachments:

- Figure 101: Proposed Additional Monitoring Well Locations
- Table A: Change Order #5, Revision, June 29, 2020
- DERF Change Order # 5 June 29, 2020
- DERF Linking Spreadsheet June 29, 2020

LEGEND

- ✦ MONITORING WELL
- ⊕ PIEZOMETER
- ✦ PROPOSED 2.5" MACROCORE GEOPROBE BORING

| | | | |
|-----|-------------------------------|------------------------------|---|
| PCE | TETRACHLOROETHENE (ug/L) | VOC | VOLATILE ORGANIC COMPOUNDS |
| TCE | TRICHLOROETHENE (ug/L) | ND | NO DETECT |
| cis | cis-1,2-DICHLOROETHENE (ug/L) | DBS | DETECTIONS BELOW STANDARDS |
| VC | VINYL CHLORIDE (ug/L) | <i>ITALICS+</i> | EXCEEDS NR140 PREVENTIVE ACTION LIMIT |
| B | BENZENE (ug/L) | <i>BOLD/ITALICS++</i> | EXCEEDS BOTH NR140 PREVENTIVE ACTION LIMIT AND ENFORCEMENT STANDARD |
| E | ETHYLBENZENE (ug/L) | | |
| T | TOLUENE (ug/L) | | |
| X | XYLENES, TOTAL (ug/L) | | |
| TMB | TRIMETHYLBENZES, TOTAL (ug/L) | | |
| N | NAPHTHALENE (ug/L) | | |
| DCE | 1,1-DICHLOROETHENE (ug/L) | | |
| CF | CHLOROFORM (ug/L) | | |



| | |
|--|---|
| FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS IOWA WISCONSIN | TITLE: PROPOSED BORINGS & 8/13/19 GROUNDWATER CHEMISTRY |
| | BRRTS: 02-41-545142 JOB NO.: 15-1209 PLOT DATE: 5/13/20 |
| MASTER DRYCLEANING INC. 6326 W. BLUEMOUND RD. WAUWATOSA, WI 53213 | FIGURE: 1 |
| DRWN: MKH DATE: 01/17/14 APPD: KE | |

| TABLE A: Change Order #5, Revision, DERF Eligible Items Additional Soil Borings and Well Installation 6/29/2020 Master Drycleaner, 6326 W. Bluemound Road, Wauwatosa, WI | | | | |
|---|------------|----------|-------|--------------------|
| ITEM DESCRIPTION | Unit Price | Quantity | Units | Total Cost |
| Consultant Services | | | | |
| Task 0 / Task 100: Project Management | | | | |
| Sr. Hydrogeologist | \$100.00 | 10 | hour | \$1,000.00 |
| Administrative | \$60.00 | 4 | hour | \$240.00 |
| Subtotal Task | | | | \$1,240.00 |
| Task 3 / Task 103: Addition of EZVI / DHC Bacteria | | | | |
| <i>Additional costs for injection chemicals</i> | | | | |
| Additional Chemical Cost | \$800.00 | 1 | lump | \$800.00 |
| Subtotal Task | | | | \$800.00 |
| Task 105: Well Installation and Soil Sampling to Delineate Extent | | | | |
| <i>Three Geoprobe Borings with 1-inch wells (MW-18 to MW-20), access in ROW, Drill, Develop, Survey</i> | | | | |
| Sr. Hydrogeologist (access, utilities) | \$100.00 | 10 | hour | \$1,000.00 |
| Field Technician / Geologist (travel, drill) | \$70.00 | 8 | hour | \$560.00 |
| Field Technician / Geologist (travel, develop, survey) | \$70.00 | 8 | hour | \$560.00 |
| Drafting | \$60.00 | 4 | hour | \$240.00 |
| Subtotal Task | | | | \$2,360.00 |
| Task 6 / Task 106: Groundwater Monitoring | | | | |
| <i>Additional budget for 3 additional wells for 2 rounds</i> | | | | |
| Sr. Hydrogeologist | \$100.00 | 4 | hour | \$400.00 |
| Field Technician / Geologist (GW Samples) | \$60.00 | 6 | hour | \$360.00 |
| Drafting | \$60.00 | 2 | hour | \$120.00 |
| Subtotal Task | | | | \$880.00 |
| Task 7 / Task 107: Groundwater Monitoring Status Reports | | | | |
| <i>Additional budget for off site wells comm., samples, data evaluation and reporting</i> | | | | |
| Sr. Hydrogeologist (off site letters) | \$100.00 | 4 | hour | \$400.00 |
| Sr. Hydrogeologist (status reports) | \$100.00 | 16 | hour | \$1,600.00 |
| Field Technician / Geologist (Data Entry) | \$70.00 | 10 | hour | \$700.00 |
| Drafting | \$60.00 | 10 | hour | \$600.00 |
| Subtotal Task | | | | \$3,300.00 |
| Task 9 / 109: Well Abandonment | | | | |
| <i>Additional time for additional wells since original bid</i> | | | | |
| Sr. Hydrogeologist | \$100.00 | 1 | hour | \$100.00 |
| Field Technician / Geologist | \$70.00 | 5 | hour | \$350.00 |
| Supplies | \$25.00 | 1 | each | \$25.00 |
| Subtotal Task | | | | \$475.00 |
| CONSULTING SERVICES TOTAL | | | | \$9,055.00 |
| Contractor Services | | | | |
| Task 105: Well Installation and Soil Sampling to Delineate Extent | | | | |
| <i>Three Geoprobe Borings with 1-inch wells (MW-18 to MW-20), access in ROW, Drill, Develop, Survey</i> | | | | |
| Geoprobe Contractor | | | | |
| Mob | \$500.00 | 1 | day | \$500.00 |
| Drill / Sample | \$9.50 | 60 | foot | \$570.00 |
| Well Install | \$9.20 | 60 | foot | \$552.00 |
| Flush Mount Covers | \$135.00 | 3 | each | \$405.00 |
| Decon | \$75.00 | 1 | day | \$75.00 |
| Laboratory | | | | |
| VOCs - Soil | \$52.00 | 6 | each | \$312.00 |
| Subtotal Task | | | | \$2,414.00 |
| Task 6 / Task 106: Groundwater Monitoring | | | | |
| <i>Additional budget for 3 additional wells for 2 rounds</i> | | | | |
| Laboratory | | | | |
| VOCs - Groundwater | \$50.00 | 6 | each | \$300.00 |
| Subtotal Task | | | | \$300.00 |
| CONTRACTOR SERVICES TOTAL | | | | \$2,714.00 |
| TOTAL ESTIMATED COST | | | | \$11,769.00 |
| Master Drycleaners Inc. approves of the site remediation costs described above and authorizes Fehr Graham to proceed with these activities. Fehr Graham shall not exceed any of these costs without receiving written authorization. The terms and conditions of the original contract for this project will apply to these services. | | | | |
| _____ | | | _____ | |
| Master Cleaners Inc. | | | Date | |
| This approval does not guarantee the reimbursement of costs. Final determination regarding the eligibility of costs will be determined at the time of claim review. | | | | |
| _____ | | | _____ | |
| Mr. J. Hnat, WDNR Project Manager | | | Date | |
| _____ | | | _____ | |
| Mr. Matt Dahlem, Fehr Graham | | | Date | |

CHANGE ORDER # 5 REVISION: June 29, 2020
 Master Cleaners, Wauwatosa, WI BRRTS # 02-41-545142

| DESCRIPTION | Unit Price | Quant. | Units | Total ADDL Cost | Prior Apprvd Cost | TOTAL COST |
|---|-------------|--------|-------|-----------------|-------------------|---------------|
| CONSULTANT SERVICES | | | | | | |
| Task O / 100: Project Management | See Table A | | | 1240 | 15740 | 16980 |
| Task A : Remove DCM | | | | | 0 | 0 |
| Task B: Geoprobe Borings Inside Bldg | | | | | 1685 | 1685 |
| Task C: Subslab Vapor Sample / Analysis | | | | | 1765 | 1765 |
| Task C1: Subslab Vapor Sample / Analysis Neighbor to East, 2nd North | | | | | 2305 | 2305 |
| Task C2 : Subslab Vapor System Neighbor to North | | | | | 1340 | 1340 |
| Task C3 Subslab Vapor System Second Neighbor to North (if needed) | | | | | 1340 | 1340 |
| Task D Floor Drain Removal, Chem Treat Sub Building | | | | | 2390 | 2390 |
| Task E Vapor Mit System Instln with three comm tests and two chem tests | | | | | 4750 | 4750 |
| Task E1: Vapor Occupancy Request (not DERF Eligible) | | | | | 1600 | 1600 |
| Task 1 RA Report, WPDES Permit, Notifications, Access | | | | | 5280 | 5280 |
| Task 2 Pre-Inj. Baseline GW Sampling (18 wells) Indoor Util Locate | | | | | 3087 | 3087 |
| Task 3 Injection | | | | | 10760 | 10760 |
| Task 103 Addition of EZVI and DHC Bacteria with RA Doc Report | | | | | 13025 | 13025 |
| Task 4 Post Inj GW Monitor 4 months | | | | | 3431 | 3431 |
| Task 5 Inj Doc Report | | | | | 2880 | 2880 |
| Task 105 Well Installation and GW Sampling to Delineate Extent | See Table A | | | 2360 | 4540 | 6900 |
| Task 6 / 106 GW Monitoring | See Table A | | | 880 | 14338 | 15218 |
| Task 7 / 107 GW Monitor Status | See Table A | | | 3300 | 13740 | 17040 |
| Task 8 / 108 Closure Request | | | | | 11520 | 11520 |
| Task 9/109 Well Abandonment | See Table A | | | 475 | 3160 | 3635 |
| | | | | | | 0 |
| Task F Addl Assessment Utility Corridors | | | | | 2270 | 2270 |
| Task G Landfill Disposal Approval | | | | | 2020 | 2020 |
| Task H Soil Excvn and Disposal | | | | | 5800 | 5800 |
| Task I Contingency Chemical Addn under Building Post Excvn | | | | | 3550 | 3550 |
| Task J Documentation Report | | | | | 4980 | 4980 |
| Total Consultant | | | | 8255 | 137296 | 145551 |
| CONTRACTOR SERVICES | | | | | | |
| Task A Remove DCM | | | | | 0 | 0 |
| Task B Geoprobe Borings inside Bldg | | | | | 1853 | 1853 |
| Task C Subslab Vapor Sample / Analysis | | | | | 576 | 576 |
| Task C1: Subslab Vapor Sample / Analysis Neighbor to East | | | | | 1152 | 1152 |
| Task C2 : Subslab Vapor System Neighbor to North | | | | | 2750 | 2750 |
| Task C3 Subslab Vapor System Second Neighbor to North (if needed) | | | | | 2750 | 2750 |
| Task D Floor Drain Removal, Chem Treat Sub-Building | | | | | 8473.5 | 8473.5 |
| Task E Vapor Mit System Instln with three comm tests and two chem tests | | | | | 3726 | 3726 |
| Task 2 Pre-Inj Baseline GW Sample (18 wells) Indoor Util locate | | | | | 1300 | 1300 |
| Task 3 Injection Outside | | | | | 14723.5 | 14723.5 |
| Task 103 Addition of EZVII/ DHC Bacteria | See Table A | | | 800 | 32587 | 33387 |
| Task 4 Post Inj Monitor 4 months Lab GW | | | | | 900 | 900 |
| Task 105 Well Installation and GW Sampling to Delineate Extent | See Table A | | | 2414 | 3812 | 3812 |
| Task 6 GW Monitoring | See Table A | | | 300 | 6700 | 6700 |
| Task F Addl Assessment Utility Corridors | | | | | 3903 | 3903 |
| Task H Soil Excvn and Disposal | | | | | 31195 | 31195 |
| Task I Contingency Chemical Addn under Building Post Excvn | | | | | 6375 | 6375 |
| Total Contractor | | | | 3514 | 122776 | 126290 |
| TOTALS | | | | 11769 | 260072 | 271841 |

Master Drycleaners Inc. approves of the site remediation costs described above and authorizes Fehr Graham to proceed with these activities. Fehr Graham shall not exceed any of these costs without receiving written authorization. The terms and conditions of the original contract for this project will apply to these services.

 Master Drycleaners Inc. Date

This approval does not guarantee the reimbursement of costs. Final determination regarding the eligibility of costs will be determined at the time of claim review.

 Mr. J. Hnat, WDNR Project Manager Date

 Mr. Matt Dahlem, Fehr Graham 13-May-20

