|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Background** | | | | | | |
| Safetech Environmental Limited was contracted to conduct visual inspections and air sampling for airborne fibres during the removal of asbestos-containing sprayed fireproofing within $SPECIFICLOCATION at $BUILDINGNAME located at $PROJECTADDRESS, $PROJECTCITY,$PROJECTPROVINCE. Asbestos abatement work is being conducted by Tri-Phase Environmental Inc.  These services were conducted on behalf of $CLIENTCONTACT, Property Manager, for $COMPANYNAME, to ensure that all work is conducted in accordance with Ontario Regulation 278/05 (O.Reg. 278/05), *Designated Substance – Asbestos on Construction Projects and in Buildings and Repair Operations* as made under the Occupational Health and Safety Act. | | | | | | |
| **Results – Pre-Contamination Visual Inspection** | | | | | | |
| A visual inspection was conducted on $VISUALABATEMENTSTART at $ONSITETIME prior to the Type 2 clean-up of asbestos-containing vermiculite. Results of our inspection noted the following:   * Our visual inspection confirmed that the Type 3 enclosure had been properly constructed with rip-proof polyethylene sheeting; * All seams were sealed with construction grade tape; * Asbestos cautionary signage was posted at the entrance to the work area; * The Ministry of Labour (MOL) Notice of Project was posted on the enclosure; * A three-stage worker decontamination facility with a shower was constructed at the entrance to the work area; * Each room of the three-stage worker decontamination facility was separated with curtained doorways; * One (1) HEPA-filtered construction air handling units (CAHU) was in operation (exhausted outdoors) * The negative pressure differential was -0.022 “wc at the time of site inspection; * One (1) HEPA-filtered vacuum was observed on-site; * The CAHU and vacuum were DOP-certified; and * All required personal protective equipment (PPE) was observed on-site.   Based on our pre-abatement visual inspection, the Type 3 work area was deemed to have been constructed in accordance with O.Reg. 278/05 and permission was granted to commence asbestos abatement. | | | | | | |
|  | |  | | |  | |
|  | |  | | |  | |
| **Results: Visual Inspections during Abatement** | | | | | | |
| Results of our visual inspection on $REPORTDATE during asbestos abatement revealed the following:   * Enclosure integrity and adequate negative pressure was maintained throughout the shift; * Contractor personnel were observed to be wearing appropriate PPE and following appropriate removal procedures; * The HVAC system was shut down at approximately 5:00 pm; * The abatement contractor removed perimeter ceiling tiles; and * Trades performed the cutting and capping of the ventilation system.   No deficiencies in enclosure integrity, engineering controls or contractor work practices were observed at the time of our visual inspections. | | | | | | |
|  | |  | | |  | |
| **Results: Post-Abatement Visual Inspection** | | | | | | |
| A visual inspection was conducted on $REPORTDATE at $ONSITETIME upon completion of removal and final cleaning procedures. Results of our inspection noted the following:   * List observations.   The following deficiencies were observed:   * List, if applicable.   Upon correction of these deficiencies the interior surfaces of the enclosure and the work area inside the enclosure were deemed to be acceptably clean and permission was granted to apply a slow drying sealant to all surfaces within the Type 3 work area. | | | | | | |
|  | |  | | |  | |
|  | |  | | |  | |
| **Results: Air Sampling for Airborne Fibres during Asbestos Abatement** | | | | | | |
| Air sampling for airborne fibres (NIOSH Method 7400) was conducted during asbestos abatement in areas immediately adjacent to the Type 3 work area. Results of air sampling are provided below.  Results of analysis indicated that airborne fibre concentrations in all sample locations were below the Occupational Exposure Limit (OEL) of 0.1 fibres/cc. In addition, results of analysis were all below the action level of 0.05 fibres/cc (50% of OEL). As such, air testing performed during abatement indicated acceptable airborne fibre levels in areas immediately outside the area of abatement, further illustrating that work area isolation, engineering controls and contractor work practices were acceptable during asbestos abatement activities. | | | | | | |
| **Type** | **Sample No.** | | **Sample Location** | **Volume (L)** | | **Concentration (f/cc)** |
|  |  | |  |  | |  |
|  |  | |  |  | |  |
|  |  | |  |  | |  |
|  |  | |  |  | |  |
|  |  | |  |  | |  |
|  |  | |  |  | |  |
| **Limitations** | | | | | | |
| The investigation, assessments and recommendations detailed in this report were carried out in a manner consistent with the level of care and skill normally exercised by reasonable members of the environmental and industrial hygiene consulting profession currently practicing under similar conditions in the area. Furthermore, the investigation, assessments and recommendations in this report have been made based on conditions observed at the time of the assessment and are limited to the areas investigated.  The analytical method used meets the requirements of O. Reg. 278/05. However, it is important to note that this method is not specific to the identification of asbestos fibres. All particles with a length greater than 5 micrometres, less than 3 micrometres in diameter and a length to diameter ratio of 3 to 1 or greater are included in the count. Fibres with diameters less than about 0.3 micrometres cannot be detected using this method regardless of length.  This report has been prepared for the sole use of the person or entity to who it is addressed. No other person or entity is entitled to use or rely upon this report without the express written consent of Safetech Environmental Limited and the person or entity to who it is addressed. Any use that a third party makes of this report, or any reliance based on conclusions and recommendations made, are the responsibility of such third parties. SEL accepts no responsibility for damages suffered by third parties as a result of actions based on this report.  A formal close-out report will be issued at the end of the project that will outline all methodology and results. | | | | | | |