



August 17, 2021

Mr. James Shuttleworth, Principal
DiNisco Design
99 Chauncy Street, Suite 901
Boston, Massachusetts 02111

**Re: Playground Subsoil Sampling and Arsenic Analysis Results
Charles C. Cashman Elementary School
193 Lions Mouth Road
Amesbury, Massachusetts 01913
ECMS Project No. 1009.073**

Dear Mr. Shuttleworth:

Pursuant to your request, *Environmental & Construction Management Services, Inc. (ECMS)* has completed the collection of subsoils samples from beneath the Cashman School playground for laboratory analysis for arsenic.

On July 29, 2021, *ECMS* personnel collected four (4) surficial soil samples below the playground surface (mulch, filter fabric and crushed stone) from 18 to 24 inches below surface grade. The soils were found to be very dense brown silty sand consistent with the soils sampled throughout the Cashman School property. The soil samples were analyzed under chain of custody (COC) by Massachusetts approved laboratory *Eurofins Environment Testing New England* of North Kingstown, Rhode Island for arsenic under EPA Method 6010D.

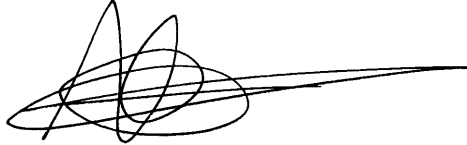
Concentrations of arsenic in all four (4) soil samples submitted were detected above their applicable RCS-1 of 20 milligrams per kilogram (mg/kg). The concentrations of arsenic ranged between 28.4 mg/kg and 62 mg/kg with an RCS-1 of 20 mg/kg and an imminent hazard concentration of 40 mg/kg. No concentrations of arsenic were detected above their applicable upper concentration limit (UCL) of 500 mg/kg. While these concentrations are above their respective RCS-1 under MOHML, they are not reportable under the Massachusetts Contingency Plan (MCP) since the arsenic detected in the Cashman Elementary School soils is naturally occurring.

A copy of the laboratory results and their respective MCP RCS-1 reporting concentrations (RCs) are presented in Tables 1 and the approximate locations of the soil samples are presented on Figure 1, Soil Sample Location Plan.

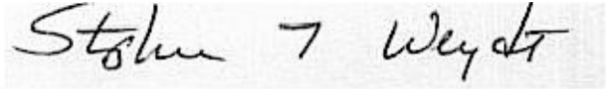
Should you have any further questions or comments, please do not hesitate to contact us at (617) 338-2121.

Sincerely,

For Environmental & Construction Management Services, Inc. by



Kevin J. Kavanaugh, LSP, CHMM
Principal Environmental Engineer



Stephen T. Weydt
Principal Environmental Engineer

Attachments:

Figure 1 –Soil Sample Location Plan dated July 29, 2021

Table 1 – Summary of Subsoils Laboratory Analysis for Arsenic

Appendix A – Soil Laboratory Analysis Report

Appendix B – Qualifications/Limitations

FIGURE

TABLE

APPENDIX A

SOIL LABORATORY ANALYSIS REPORT

APPENDIX B

QUALIFICATIONS/LIMITATIONS

QUALIFICATIONS/LIMITATIONS

Environmental & Construction Management Services, Inc. (ECMS) professional services have been performed, our findings obtained, and our recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This warranty is in lieu of all other warranties either expressed or implied. *ECMS* is not responsible for the independent conclusions, opinions or recommendations made by others based on the records review, site inspection, field exploration, and laboratory test data presented in this report.

Factual information regarding on-site business operations, conditions, and historical data provided to *ECMS* is assumed to be correct and complete. *ECMS* assumes no responsibility for hidden or latent conditions or misrepresentation by the property owner, its representatives, public information officials or any authority consulted in connection with the compilation of this report.

The findings set forth in the attached Site assessment report are strictly limited in time and scope to the date of the evaluation(s). The conclusions presented in the Report are based solely on the services described therein, and not on scientific tasks or procedures beyond the scope of agreed upon services or the time and budgeting restraints imposed by the client.

The purpose of this report was to assess the physical characteristics of the subject Site with respect to the presence in the environment of hazardous material or oil. No specific attempt was made to check on the compliance of present or past owners or operators or of the Site with Federal, State or local laws and regulations, environmental, or otherwise.

Partial findings of this investigation are based on data provided by others. No warranty is expressed or implied with the usage of such data. Much of the information provided in this report is based upon personal interviews and research of all available documents, records and maps held by the appropriate government and private agencies. This is subject to the limitations of historical documentation, availability and accuracy of pertinent records, and the personal recollection of those persons contacted by *ECMS* personnel. *ECMS* is not a professional title insurance firm and makes no guarantee, explicit or implied that the listing, which was reviewed, represented a comprehensive delineation of past Site ownership or tenancy for legal purposes.

Observations were made of the Site and of structures on the Site as indicated within the Report. Where access to portions of the Site or to structures on the Site was unavailable or limited, *ECMS* is unable to render an opinion as to the presence of hazardous material or oil, or to the presence of indirect evidence relating to hazardous material or oil, in that portion of the Site or structure. In addition, *ECMS* renders no opinion as to the presence of hazardous material or oil, where direct observation of the interior walls, floor, or ceiling of a structure on a Site was obstructed by objects or coverings on or over these surfaces.

The initial site investigation took into account the natural and man-made features of the Site, including any unusual or suspect phenomenon. These factors combined with the Site's geology, hydrology, topography, and past and present land uses served as a basis for choosing a methodology and location for subsurface exploration as well as ground water and subsurface sampling, if done. The subsurface data, if provided, is meant as a representative overview of the Site.

The conclusions and recommendations contained in this report may be based in part upon various types of chemical data and are contingent upon their validity. As indicated within the Report, some of these data are preliminary "screening" level data, and should be confirmed with quantitative analyses if more specific information is necessary. It should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional data or variations of current data become available in the future, these data should be reviewed, and the conclusions and recommendations presented herein modified accordingly.

Chemical analyses may have been performed for specific parameters during the course of this Site assessment, as described in the text. However, it should be noted that additional chemical constituents not searched for during the current study might be present in soil and/or ground water at the Site.

