To: Moon, Wally[Moon.Wally@epa.gov]; McClintock, Katie[McClintock.Katie@epa.gov]; Hedgpeth, Zach[Hedgpeth.Zach@epa.gov]; Williamson, Ann[Williamson.Ann@epa.gov]
From: Wroble, Julie
Sent: Mon 2/22/2016 6:11:16 PM
Subject: FW: Soil Investigation Report for the New Day School - SSID#46318
Sally-Brown-Urban-Gardening-jeq-0-0-jeq2015 07 0376.pdf

From: Stifelman, Marc
Sent: Friday, February 19, 2016 2:54 PM
To: love atencio **Ex. 6 - Personal Privacy**
Subject: RE: Soil Investigation Report for the New Day School - SSID#46318

Sherry,

Your soil results are good news for your students. With one exception for playground lead at 90.6 ppm, (only slightly above a background of 79 ppm) your results are below background levels and are not indicative of contamination above what occurs naturally or would otherwise be common in Portland (lead is mostly legacy from gasoline & paint) and still below the 400 ppm standard. I would not be concerned about arsenic levels which fall below background, but remain above the ODEQ RBCs levels because the standard 0.43 ppm is based on 30 years of exposure which may increase excess lifetime risk of cancer by 1 in a million. The 1 in a million cancer risk level is the lowest non-zero level of risk. It's more metaphor than math. For comparison, the risk at background levels of arsenic are 20 in a million (8.8/.43) more than twice as your results. For chromium, your lifetime excess cancer risks are less than half the soil standard or less than 1 in 2 million.

Feel free to contact me share my information with others. I've also attached an Urban Gardening paper which may be of interest. It's great that you're able to grow food for your students.

Regards,

-Marc

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"Time makes more Converts than Reason."

-- Thomas Paine, 1776

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From: love atencio Ex. 6 - Personal Privacy
Sent: Friday, February 19, 2016 2:17 PM
To: stiefelman.marc@epa.gov; Stifelman, Marc <Stifelman.Marc@epa.gov>; Ex. 6 - Personal Privacy
Subject: Fw: Soil Investigation Report for the New Day School - SSID#46318

Hi Marc,

Thank you for your quick response and calling me back today and for your help with understanding these numbers and what it means for our school garden. Thank you for being willing to comment on our results as well. I think it will help our families feel confident in our steps to making sure our soil is safe. if you could send me your comments today that would be really helpful. Also, would you be open to concerned families calling you if they have further questions?

In gratitude,

Sheri Love

Ex. 6 - Personal Privacy
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Ex. 6 - Personal Privacy

From: Alex Mottern <alex@soilsolutionsenvironmental.com>
Sent: Friday, February 19, 2016 1:34 AM
To: Ex. 6 - Personal Privacy
Subject: Soil Investigation Report for the New Day School - SSID#46318

Good evening Sheri,

I have attached our statement regarding the levels of arsenic, cadmium, chromium (total and hexavalent), lead, and mercury in the soil at the New Day School at 1825 SE Clinton Street. I have also attached a fact sheet regarding background levels of metals in soils that was created by the DEQ. This document will help to make sense of the data obtained from the soil samples.

As you can see in the report, the amount of arsenic present in your soil sample does exceed the DEQ's risk-based concentration (RBC) of that metal in soil, however the average background level of arsenic in the Portland area is 8.8 ppm. We can infer from this that the arsenic present in your soil may not be related to the recent Bullseye Glass emission concerns.

Additionally, the concentrations of cadmium, total chromium, and mercury present in your soil does not exceed the background levels of these metals in the Portland area. Both cadmium and mercury were not detected at any level in any of the soil samples.

As for hexavalent chromium (Cr-VI), the highest reported value for this compound is 0.148 ppm. The DEQ RBC for this compound in soil is 0.3 ppm, so the soils at the New Day School are not considered a health risk according to the DEQ.

Lastly, the only soil sample that exceeded the background level of lead for the Portland area was collected around the playground. The result obtained (90.6 ppm) exceeds the background level of 79 ppm. Now, while this may seem alarming, I should first mention the fact that the DEQ RBC for lead is 400 ppm. As for the source of this lead, I am curious as to how old the playground area is. I know the New Day School was

established at this location in 1979 and lead ceased to be added to paint in 1978. If older paint was used to paint the playground or any exterior structures when the school was established, this could explain the elevated level of lead.

Please let me know if you have any questions regarding these results.

Sincerely,

Alex Mottern
Project Manager
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Soil Solutions Environmental Services

www.soilsolutionsenvironmental.com

Our project managers are customer service experts committed to providing affordable solutions and answers to all your questions. Our field technicians have extensive ...