**Attachment 6B: Sample Results Letter to the Parent of a Participant aged 6 to <18 Years**

Flesch-Kincaid Reading level – 8.6

 **(ATSDR Letterhead)**

DATE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name XXXXX

Address XXXX

Dear \_\_\_\_\_\_\_\_\_\_\_\_

Thank you for allowing your child, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, to take part in the Agency for Toxic Substances and Disease Registry’s (ATSDR) Exposure Investigation (EI) in Hayden and Winkelman, AZ. The goal of the EI is to determine whether people living in Hayden and Winkelman, AZ, are being exposed to lead and arsenic.

ATSDR collected a blood and urine sample from your child on [Month Day, Year]. This letter contains the results of your child’s blood lead and urine arsenic tests.

Your child's test results are shown below.

|  |
| --- |
| **Blood Lead and Total Urine Arsenic Test Results for Firstname Lastname** |
| **Test** | **Test Result** | **Investigation Exposure Level**  |
| Blood Lead | XXX µg/dL | 5 µg/dL1 |
| Total Urine Arsenic | XXX µg/g of creatinine | 28.4 µg/g of creatinine2 |
| Inorganic Urine Arsenic\* | XXX µg/g of creatinine | See below3 |
| Organic Urine Arsenic\* | XXX µg/g of creatinine | See below4 |
| 1 The investigation exposure level for blood lead is 5 µg/dL. This value is the upper reference interval value of the 97.5th percentile of the distribution of the combined 2007-2008 and 2009-2010 cycles of the Centers for Diseases Control and Prevention (CDC) National Health and Nutrition Examination Survey (CDC 2013- <http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6213a3.htm>) . 2 The total urine arsenic exposure level is the lowest 95th percentile total urine arsenic value reported for all age groups in the 2009-2010 CDC National Health and Nutrition Examination Survey. 95th percentile means that 95 percent of the population will have a value at or below the number indicated as the exposure level. Results are reported in micrograms per gram of creatinine (µg/g). Adjusting for creatinine is a standard method used to report the amount of arsenic present in urine samples. If the total creatinine level was above 28.4 µg/g, further analysis was done to determine the amount of organic and inorganic arsenic in the total.*{\*Results will be reported if total urinary arsenic is above 28.4; and speciation is conducted. Otherwise delete these two rows and two footnotes below.}*3 Speciated Inorganic Arsenic Reference Levels in μg/g of creatinine (95 percentile), based on 2009-2010 survey years.

|  |  |  |  |
| --- | --- | --- | --- |
|  | 6-11 years | 12-19 years | 20 years and older |
| Arsenic (V) Acid  | < LOD | < LOD | < LOD |
| Arsenous (III) Acid | < LOD | 1.95 | < LOD |
| Dimethylarsinic Acid | 16.5 | 10.0 | 16.1 |
| Monomethylarsonic Acid | 3.16 | 2.56 | 2.91 |

*LOD – Level of Detection*Centers for Disease Control and Prevention. Fourth Report on Human Exposure to Environmental Chemicals, Updated Tables, (August, 2014). Atlanta, GA: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention. <http://www.cdc.gov/exposurereport/> (<http://www.cdc.gov/exposurereport/pdf/fourthreport_updatedtables_aug2014.pdf> )4Speciated Organic Arsenic Reference Levels in μg/g of creatinine (95 percentile), based on 2009-2010 survey years.

|  |  |  |  |
| --- | --- | --- | --- |
|  | 6-11 years | 12-19 years | 20 years and older |
| Arsenobetaine | 24.9 | 14.0 | 57.0 |
| Arsenocholine | < LOD | < LOD | < LOD |
| *Trimethylarsine oxide* | *< LOD* | *< LOD* | *< LOD* |

*LOD = Level of Detection*Centers for Disease Control and Prevention. Fourth Report on Human Exposure to Environmental Chemicals, Updated Tables, (August, 2014). Atlanta, GA: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention. <http://www.cdc.gov/exposurereport/> (<http://www.cdc.gov/exposurereport/pdf/fourthreport_updatedtables_aug2014.pdf> ) |

|  |
| --- |
| ***Reporting child blood lead level:*** |
| *Insert A. Blood Lead Level below Investigation Exposure Level (IEL)* |
| *Insert B. Blood Lead Level equal to or above Investigation Exposure Level (IEL)* |
| ***Reporting child urine arsenic:*** |
| *Insert C. Total Urine Arsenic Level below the Investigation Exposure Level (IEL)* |
| *Insert D. Total Urine Arsenic Level equal to or above the Investigation Exposure Level (IEL), Organic Arsenic elevated, Inorganic Arsenic normal* |
| *Insert E. Total Urine Arsenic Level equal to or above the Investigation Exposure Level (IEL), Organic Arsenic normal, Inorganic Arsenic elevated* |
| *Insert F. Total Urine Arsenic equal to or above Investigation Exposure Level (IEL),both Organic and Inorganic Arsenic elevated.* |

ATSDR’s recommendations for reducing exposure to lead and arsenic are in the enclosed factsheets.

If you have questions concerning this Exposure Investigation or your child’s test results, please contact me at 770-488-0771 or by email at BTierney@cdc.gov.

Sincerely,

Bruce C. Tierney, MD

Lead Investigator – Asarco Hayden Smelter Exposure Investigation

ATSDR Division of Community Health Investigations, Exposure Investigation Team

Enclosures {Factsheet A and B}