ANALYTICAL REPORT

Report Date: December 15, 2020

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Workorder: **34-2033984**
Client Project ID: Yorke Engineering 113020
Purchase Order: NA
Project Manager: Paul Pope

Analytical Results

Sample ID: **Inside AAA** Collected: 11/30/2020
Lab ID: 2033984001 Sampling Location: Yorke Engineering Received: 12/04/2020

Method: **NIOSH 7300 Mod., Air** **Media:** Quartz Fiber Filter **Instrument:** ICP13
Sampling Parameter: **Air Volume 1867.47 m³** **Prepared:** 12/11/2020 (272668)
Analyzed: 12/14/2020 (272779)

Analyte	Result (ug/sample)	Result (mg/m³)	RL (ug/sample)
Arsenic	<120	<0.000064	120
Beryllium	<0.60	<0.00000032	0.60
Cadmium	<3.6	<0.0000019	3.6
Cobalt	<9.4	<0.0000050	9.4
Copper	**370**	**0.00020**	24
Iron	**2900**	**0.0016**	240
Lead	<24	<0.000013	24
Manganese	**57**	**0.000030**	6.0
Molybdenum	<18	<0.0000096	18
Nickel	<6.0	<0.0000032	6.0
Potassium	**690**	**0.00037**	600
Selenium	<120	<0.000064	120
Vanadium	**6.9**	**0.0000037**	3.6
Zinc	**140**	**0.000073**	24

Method: **Total Suspended Particulates** **Media:** Quartz Fiber Filter **Instrument:** GRAV04
Sampling Parameter: **Air Volume 1867.47 m³** **Analyzed:** 12/10/2020 (272633)

Analyte	Result (mg/sample)	Result (mg/m³)	RL (mg/sample)
Total Suspended Particulate	**170**	**0.090**	8.0

Comments

Sample: 2033984001

NIOSH 7300 Mod: The results for the quartz fiber filter field sample were calculated according to 40 CFR Pt. 50, App. G modified for QFF filters and Panel B metals. There are 12 strips per sample. A single strip of each sample was digested and analyzed for Panel B metals so a factor 12 was placed in the dilution field in Horizon for this sample to calculate total sample result.

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Report Authorization (/S/ is an electronic signature that complies with 21 CFR Part 11)

Method	Analyst	Peer Review
NIOSH 7300 Mod., Air	/S/ Peter P. Steen 12/15/2020 09:12	/S/ Daphne Robinson 12/15/2020 15:47
Total Suspended Particulates	/S/ Brian S. Stites 12/11/2020 00:00	/S/ Megan Allen 12/14/2020 15:25

Laboratory Contact Information

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General Lab Comments

The results provided in this report relate only to the items tested.
Samples were received in acceptable condition unless otherwise noted.
The following was provided by the client: Sample ID, Collection Date, Sampling Location, Media Type, Sampling Parameter.
Collection Date, Media Type, and Sampling Parameter can potentially affect the validity of the results.
Samples have not been blank corrected unless otherwise noted.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

All quality control samples processed with the samples in this report yielded acceptable results unless otherwise noted.

ALS is accredited for specific fields of testing (scopes) in the following testing sectors. The quality system implemented at ALS conforms to accreditation requirements and is applied to all analytical testing performed by ALS. The following table lists testing sector, accreditation body, accreditation number and website. Please contact these accrediting bodies or your ALS project manager for the current scope of accreditation that applies to your analytical testing.

Testing Sector	Accreditation Body (Standard)	Certificate Number	Website
Environmental	PJLA (DoD ELAP)	L20-57	http://www.pjlabs.com
	PJLA (ISO 17025)	L20-58	http://www.pjlabs.com
Industrial Hygiene	AIHA (ISO 17025 & AIHA IHLAP)	101574	http://www.aihaaccreditedlabs.org
	DOECAP-AP	L20-59	http://www.pjlabs.com
	Washington	C596	https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Laboratory-Accreditation
Dietary Supplements	PJLA (ISO 17025)	L20-58	http://www.pjlabs.com

Definitions

LOD = Limit of Detection = MDL = Method Detection Limit, A statistical estimate of method/media/instrument sensitivity.
LOQ = Limit of Quantitation = RL = Reporting Limit, A verified value of method/media/instrument sensitivity.
ND = Not Detected, Testing result not detected above the LOD or LOQ.
NA = Not Applicable.
** No result could be reported, see sample comments for details.
< Means this testing result is less than the numerical value.
( ) This testing result is between the LOD and LOQ and has higher analytical uncertainty than values at or above the LOQ.