Green Bay Location

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November 25, 2020

Mr. Dave Neste
Wisconsin Department of Natural Resources
Oshkosh Service Center
625 E. County Road Y, Suite 700
Oshkosh WI 54901-9731

Dear Mr. Neste:

RE: Investigation to Facilitate Soil and Groundwater Management during the Construction of the Proposed Fincantieri Marinette Marine Hull Erection Building (B34/B35)
Fincantieri Marinette Marine – Marinette, Wisconsin

Introduction

On behalf of Fincantieri Marinette Marine (FMM), Foth Infrastructure & Environment, LLC (Foth) conducted direct push analytical soil sampling and installed shallow water table monitoring wells in and adjacent to the proposed Hull Erection Building (B34/B35) footprint during the period September 23 – 29, 2020. The work was conducted to characterize soil material and shallow groundwater requiring management during construction excavation and potential groundwater dewatering activities. This letter report has been prepared to provide the Wisconsin Department of Natural Resources (WDNR) with a summary of the investigation analytical findings.

The analytical soil sampling depth was based upon preliminary design information and was intended to characterize the upper material needing removal to install the foundation slab. An early estimate had approximately 45,000 cubic yards of asphalt, gravel and soil representing localized "cuts" of about 3 to 7.5 feet below the existing grade across the construction area, to be excavated and managed. Four installed shallow water table monitoring wells confirmed that the majority of the estimated "soil cut" material lies above the water table, but depending upon the final design some structural features such as foundation pile caps may require deeper excavation below the water table in portions of the proposed construction footprint. The installed water table wells were used to estimate the water table elevation, estimate the localized shallow flow direction, and provide groundwater quality data.

Background

The FMM property lies in an old, heavily industrialized area of the City of Marinette (City). Review of documents provided by FMM and available from the WDNR indicates that a number of lumber yards existed in the area in the past as well as a railroad (south of Ludington Street) and railroad yard. There are active WDNR Environmental Repair Program (ERP) cases on adjacent properties to the west (WPS manufactured gas plant [WPS MGP]), east (Tyco/Ansul), and southwest (MCABI-Tyco Redevelopment Site). In addition, onsite closed ERP case Bureau for Remediation and Redevelopment Tracking System (BRRTs) #02-38-260867 Marinette Marine Corporation encompasses a large portion of the site in and around the investigated area with a groundwater use restriction. It is also understood that a former municipal dump may have existed in the southwestern corner of the employee parking area to the west of the Building 34 footprint. Foth has no confirmation of location. Last, this area of the site/City was filled in the past with mixed fill to bring it to useable grades.

Scope of Investigation

Boring Locations

A total of 13 borings identified as GP-1 through GP-13 were advanced across the proposed construction footprint area to provide subsurface data. Four of these locations were converted to shallow groundwater monitoring wells. The boring and well locations are shown on Figure 1. Locations were chosen to provide a relatively even areal distribution under the access constraints imposed by active employee parking and existing buildings (on the north end). In addition, some locations were chosen adjacent to previously drilled geotech borings to follow-up on previous observations and/or testing results suggesting potential contamination.

The location and ground surface elevation at each boring location was recorded with a real time kinematic global position system (RTK-GPS) using the horizontal and vertical datums of: North American Datum 1983 (NAD 83) Wisconsin State Plane – Central, and North American Vertical Datum 1988 (NAVD 88), respectively. Boring information, including coordinates and ground surface elevations, are provided in Table 1.

Boring Drilling/Sampling Procedures

Soil sampling was performed using direct push core technology. At each location, core tubes were driven to collect undisturbed soil samples from below the surficial asphalt to a depth of the approximate “soil cut” elevation. With a few exceptions, most sample drives were 5 feet deep or less. Upon retrieval from the borehole, the contents of each core tube was visually inspected and described in accordance with the Unified Soil Classification System (USCS). The soil samples for analytical testing were typically composited over the sample drive interval and placed in appropriate containers for laboratory analyses.

Sample drive recoveries were typically in the 50 to 60% range likely the result of the granular nature of the upper fill material. The soil sample IDs and intervals are shown in Table 1. Boring logs were prepared by a Foth geologist and are included in Attachment 1.

Upon completion of drilling/sampling direct push borings not converted to monitoring wells were abandoned in accordance with NR 141 of the Wisconsin Administrative Code (Wis. Admin. Code). The soil cuttings from the boreholes were containerized in 55-gallon drums for onsite storage pending offsite disposal.

Monitoring Well Installation

At four of the direct push soil sampling locations, shallow NR 141 compliant water table monitoring wells were installed to a depth of about 13.5 feet below grade. The well boreholes were advanced using decontaminated 4.25-inch ID hollow stem auger (HSA). All wells were constructed of new 2-inch diameter polyvinyl chloride (PVC) casing and a 10-foot screen positioned to intersect the water table. Flushbox covers were concreted in-place at each well location. Monitoring well construction forms are included in Attachment 2.

The monitoring wells were subsequently developed by bailing with per- and polyflouroalkyl substances (PFAS) approved disposable rope and bailers. The development water was containerized in 55-gallon drums for onsite storage pending offsite disposal. Monitoring well development forms are included in Attachment 2.

Soil Analytical Testing Results

Soil samples were submitted to Pace Analytical Services, Inc. (Pace) of Green Bay, Wisconsin, for the laboratory analyses of volatile organic compounds (VOC), polycyclic aromatic hydrocarbons (PAH), Resource Conservation and Recovery Act (RCRA) metals plus copper and zinc, polychlorinated biphenyls (PCB), and pesticides. In addition, select metals fractions with elevated concentrations were also leach tested (Toxicity Characteristic Leaching Procedure [TCLP] and Water Neutral Leach) to evaluate the potential for hazardous waste characteristics and groundwater impacts. These analytical parameters were selected based on the Waste Management (WM) waste protocol requirements for excavated material and owner knowledge as well as potential agency concerns regarding metals leaching to groundwater based on reported soil concentrations. The Pace soil analytical reports are included in Attachment 3.

The soil analytical results are shown in Table 2. The results in Table 2 are shown with and are compared to the Wis. Admin. Code NR 720 residual contaminant levels (RCLs) for industrial direct contact, and the protection of groundwater pathway. Highlighted data cells indicate a concentration value above an NR 720 RCL. In general, one or more

analytical parameters has a reported concentration above an RCL at all soil sampling locations. Some have multiple parameter exceedances. In particular:

- With the exception of arsenic at two locations (GP-3 and GP-13) all soil RCL exceedences are for the groundwater pathway.
- At GP-3 and GP-13 the industrial direct contact and the groundwater pathway soil RCLs for arsenic are exceeded.
- The total PCB concentration exceeds the groundwater pathway RCL at all locations.
- PAH concentrations exceed one or more groundwater pathway RCLs at nine of the 13 locations.
- Metals, most notably lead, selenium, and arsenic exceed one or more RCLs at nine of the 13 locations.
- VOCs and pesticides are much less of an issue with only one location each with a concentration above an RCL.

Collectively, the numerous exceedances of RCLs suggest that the soil material proposed for foundation excavation will not meet the requirements for general fill ("inert") in Wisconsin.

The leach test results do not suggest hazardous waste characteristics, or the potential for significant leaching to groundwater.

Groundwater Elevation and Flow

Following the installation and development of the monitoring wells, the top of the PVC well pipe was elevation surveyed; and the depth to groundwater was measured prior to groundwater sampling on September 29, 2020 and again on November 12, 2020. The water table elevations at each monitoring well were calculated and are shown in Table 1. The highest elevation was calculated on the south end of the construction area at GP-1W (585.02 feet NAVD88) and the lowest at GP-4W (581.91 feet NAVD 88) on the north end. Figure 2 depicts the September 29, 2020 water table elevations at each well and presents an estimate of a shallow groundwater flow trending from south to north towards the Menominee River.

Groundwater Analytical Testing Results

Groundwater samples were collected on September 29, 2020 and were submitted for the laboratory testing of VOCs, PAHs, RCRA metals plus copper and zinc, PCBs, pesticides,

and PFAS. These analytical parameters were selected to be consistent with the soils protocol and the WDNR's requirement for testing groundwater for PFAS in the City of Marinette due to the prevalence of PFAS environmental impacts in the area. The Eurofins TestAmerica laboratory, located in West Sacramento, California, performed the PFAS testing. Pace performed all the other testing. The groundwater analytical reports are included in Attachment 4.

The samples were collected using low-flow sampling techniques to minimize the potential for turbidity related issues. In addition, the metals fraction was collected as both filtered and unfiltered fractions for comparison purposes. The reported metals results were nearly identical for the filtered and unfiltered fractions suggesting that turbidity was not a factor.

The groundwater analytical results are shown in Table 3. The results in Table 3 are shown with and are compared to the Wis. Admin. Code NR 140 Preventive Action Limit (PAL) and Enforcement Standard (ES) criteria. Highlighted data cells indicate a concentration value above an NR 140 ES and/or PAL. With the exception of two benzene PAL exceedences, VOCs, PAHs, PCBs, and pesticides are not problematic in the groundwater tested. However, elevated arsenic and PFAS were detected at all wells. Barium and lead were also reported above PALs in one or more wells.

Summary and Conclusions

The soil and groundwater characterization testing performed by Foth in the proposed Building 34/35 footprint was carried out to inform FMM and its engineering design team on decisions regarding the management of excavated soils and potentially groundwater. A summary of the findings includes:

- A total of 13 borings, identified as GP-1 through GP-13, were advanced across the proposed construction footprint area to provide subsurface data. Four of these locations were converted to shallow groundwater monitoring wells.

- In general, one or more analytical parameters has a reported concentration above an RCL at all soil sampling locations. Some have multiple parameter exceedances. With the exception of soil arsenic at two locations, the RCL exceedences are related to the groundwater pathway. These results are shown in Table 2.

- With the exception of two benzene PAL exceedences, VOCs, PAHs, PCBs, and pesticides are not problematic in the groundwater tested. However, elevated arsenic and PFAS were detected at all wells. Barium and lead were also reported above PALs in one or more wells. These results are shown in Table 3.

- Preliminarily, it appears that arsenic in groundwater may be associated with one or more source areas. Based on a review of the MCABI Tyco Redevelopment Site investigation report, during the preparation of this report (available on the WDNR's BRRTs site on the web), the dissolved arsenic concentration at upgradient GP-1W is consistent with results reported in groundwater at the northern edge of the MCABI property to the south. The arsenic concentrations reported for the other three investigation wells on the FMM property may also represent the downgradient extension of that plume or isolated impacts. A prior investigation on the FMM property identified elevated arsenic in groundwater at other locations, the highest being 1,900 parts per billion in a temporary well installed near the southeast corner of the yard area (north of the tracks) and across the street from the Tyco property. As a result of those test results, the WDNR required a groundwater use restriction for the property on its GIS registry which remains in place to date (closed ERP BRRTs #02-38-260867).

- The PFAS detected in groundwater in the FMM wells may represent migration of a plume from an upgradient source. This possibility is based on the fact that the highest reported PFOA concentration from the Foth investigation was reported in the upgradient well GP-1W sample (one sampling event). Lastly, Foth has not received any information to date that suggests that FMM used PFAS containing chemicals in this area of the site.

Attached you will also find a completed Form 4400-225 *Notification for Hazardous Substance Discharge* for the detected impacts of this pre-construction investigation (Attachment 5).

If you have any questions regarding this report, please contact either Bob Meller at (920) 496-6866 or Rick Panosh at (920) 496-6658.

Sincerely,

Foth Infrastructure & Environment, LLC

Richard L. Panosh, PG
Lead Environmental Scientist

Robert J. Meller, PG
Lead Environmental Scientist

attachments

cc: Christian Di Rocco, FMM
Ed Swanson, FMM
Warren Netzow, FMM
Michele Frozena, Foth

Tables

Table 1
Boring Locations & Sampling Intervals Summary
B34/B35 Supplemental Investigation
Fincantieri Marinette Marine
Marinette, Wisconsin

Date Sampled	Boring No.	Monitoring Well No.	Boring/Well Location		Ground Surface Elevation (ft NAVD 88)	Soil Sample ID	Soil Sample Depth (ft bgs)			Sample Elevation (ft NAVD 88)			Est Soil Cut Depth Elevation (ft NAVD 88)	Top of Well Casing Elevation (ft NAVD 88)	9-29-20 Depth to GW (ft)	11-12-20 Depth to GW (ft)	9-29-20 Groundwater Elevation (ft NAVD 88)	11-12-20 Groundwater Elevation (ft NAVD 88)
			Northing[1]	Easting[1]														
Analytical Borings																		
9/23/20	GP-1	GP-1W	469366.52	2582759.39	588.8	GP-1, 0.2 - 5.5'	0.2	-	5.5	588.6	-	583.3	583.6	588.51	3.65	3.49	584.86	585.02
9/24/20	GP-2	--	469516.71	2582866.89	588.1	GP-2, 0.2 - 4.5'*	0.2	-	4.5	587.9	-	583.6	583.6	--	--	--	--	--
9/24/20	GP-3	GP-3W	469642.04	2582954.00	587.4	GP-3, 0.1 - 4.0'	0.1	-	4.0	587.3	-	583.4	583.6	586.89	4.35	4.47	582.54	582.42
9/23/20	GP-4	GP-4W	469890.04	2583130.81	587.9	GP-4, 0.0 - 4.0'	0.0	-	4.0	587.9	-	583.9	583.6	587.63	5.72	5.72	581.91	581.91
9/24/20	GP-5	--	470101.40	2582988.89	587.5	GP-5, 0.2 - 4.0'	0.2	-	4.0	587.3	-	583.5	583.6	--	--	--	--	--
9/23/20	GP-6	GP-6W	469892.02	2582873.22	588.2	GP-6, 0.2 - 5.0'	0.2	-	5.0	588.0	-	583.2	583.6	587.90	5.77	5.88	582.13	582.02
9/24/20	GP-7	--	469709.70	2582757.59	588.6	GP-7, 0.3 - 5.0'	0.3	-	5.0	588.3	-	583.6	583.6	--	--	--	--	--
9/24/20	GP-8	--	469544.18	2582650.98	589.9	GP-8, 0.3 - 6.5'	0.3	-	6.5	589.6	-	583.4	583.6	--	--	--	--	--
9/24/20	GP-9	--	469778.40	2582921.94	587.5	GP-9, 0.2 - 4.0'	0.2	-	4.0	587.3	-	583.5	583.6	--	--	--	--	--
9/23/20	GP-10	--	469874.03	2583251.26	587.4	GP-10, 0.3 - 4.0'	0.5	-	4.0	586.9	-	583.4	583.6	--	--	--	--	--
9/23/20	GP-11	--	469400.35	2582818.08	588.2	GP-11, 0.3 - 4.5'	0.3	-	4.5	587.9	-	583.7	583.6	--	--	--	--	--
9/24/20	GP-12	--	469422.03	2582643.76	590.8	GP-12, 0.2 - 5.0'	0.2	-	5.0	590.6	-	585.8	583.6	--	--	--	--	--
9/24/20	GP-12	--			590.8	GP-12, 5.0 - 7.5'	5.0	-	7.5	585.8	-	583.3	583.6	--	--	--	--	--
9/24/20	GP-13	--	469604.44	2582843.32	587.4	GP-13, 0.2 - 4.0'	0.2	-	4.0	587.2	-	583.4	583.6	--	--	--	--	--

Notes:

1 = Wisconsin State Plane - Central

NAVD = North American Vertical Datum

* = The GP-2, 0.2 - 4.5' sample drive was subdivided into two analytical samples, an "GP-2, 0.2 - 4.5' UPPER" and a "GP-2, 0.2 - 4.5' LOWER".

Prepared by: RLP1

Checked by: RJM7

Table 2
Soil Analytical Results Compared to WI NR 720 Criteria
B34/B35 Supplemental Investigation
Fincantieri Marinette Marine
Marinette, Wisconsin

Analysis		WDNR NR 720 Direct Contact RCL[1]	WDNR NR 720 GW Pathway RCL[1]	Units	Sample ID GP-1, 0.2-5.5'	GP-2, 0.2 - 4.5' UPPER	GP-2, 0.2 - 4.5' LOWER	GP-3, 0.1 - 4.0'	GP-4, 0.0 - 4.0'
ASTM D2974-87	Moisture	N/A	N/A	%	7.4	6.1	9.1	14.0	4.4
EPA 8260 Detected VOCs	Benzene	7,070	5.1	ug/kg	<25	<25	<25	152	<25
	Ethylbenzene	35,400	1,570	ug/kg	<25	<25	<25	30.1 J	<25
	Chlorobenzene	761,000	135.8	ug/kg	<25	<25	<25	<25	<25
	p-Isopropyltoluene	162,000	N/A	ug/kg	<25	<25	<25	38.0 J	<25
	1,4-Dichlorobenzene	16,400	144.0	ug/kg	<25	<25	<25	53.0 J	<25
	n-Butylbenzene	108,000	N/A	ug/kg	<30	<30	<30	<30	<30
	sec-Butylbenzene	145,000	N/A	ug/kg	<25	<25	<25	<25	<25
	tert-Butylbenzene	183,000	N/A	ug/kg	<25	<25	<25	<25	<25
	Naphthalene	24,100	658.2	ug/kg	<27.3	<27.3	69.0 J	35.4 J	<27.3
	Toluene	818,000	1,107	ug/kg	<25	<25	<25	67.6 J	<25
	1,2,4-Trimethylbenzene	219,000	1,378.7	ug/kg	<25	<25	<25	<25	<25
	1,3,5-Trimethylbenzene	182,000		ug/kg	<25	<25	<25	<25	<25
	m&p-Xylene	260,000	3,960	ug/kg	<50	<50	<50	77.2 J	<50
	o-Xylene			ug/kg	<25	<25	<25	42.1 J	<25
EPA 6020 Metals	Arsenic	8.3[2]	8.3[2]	mg/kg	4.3	3.4	6.4	325	2.6
	Barium	100,000	164.8	mg/kg	25.4	14.2	255	160	15.4
	Cadmium	985	0.752	mg/kg	0.55 J	<0.098	0.42 J	1.4	0.29J
	Chromium	43.5[2]	43.5[2]	mg/kg	10.4	7.9	10.0	32.4	9.6
	Copper	46,700	91.6	mg/kg	23.5	17.0	40.3	366	33.6
	Lead	800	27	mg/kg	18.2	26.9	99.3	304	50.9
	Selenium	5,840	0.52	mg/kg	0.79	0.21 J	0.78	0.59 J	0.47 J
	Silver	5,840	0.85	mg/kg	0.23 J	<0.096	0.24 J	0.47	0.11 J
	Zinc	100,000	N/A	mg/kg	62.5	75.4	82.1	537	83.8
EPA 7471	Mercury	3.13	0.208	mg/kg	0.028 J	<0.011	0.069	0.15	0.016 J
EPA 6010 TCLP	Arsenic	NA	NA	mg/L	NT	NT	NT	0.056	NT
	Lead	NA	NA	mg/L	NT	NT	NT	0.097	NT
EPA 6020 Water Neutral Leach	Lead	NA	NA	mg/L	NT	NT	NT	<0.00024	NT
	Zinc	NA	NA	mg/L	NT	NT	NT	<0.010	NT
EPA 8081 Pesticides	Aldrin	187	N/A	ug/kg	<28.6	<5.6	<29.4	<6.2	<5.6
	alpha-BHC	365	N/A	ug/kg	<12.2	<2.4	<12.6	<2.7	<2.4
	beta-BHC	1,280	N/A	ug/kg	<20.5	<4.1	<21.1	<4.4	<4.0
	delta-BHC	N/A	N/A	ug/kg	<15.6	<3.1	<16.0	<3.4	<3.0
	gamma-BHC (Lindane)	2,540	2.3	ug/kg	<11.3	<2.2	<11.6	<2.5	<2.2
	Chlordane	7,760	542	ug/kg	<295	<58.1	<303	<63.8	<57.2
	alpha-Chlordane	N/A	N/A	ug/kg	<12.3	<2.4	<12.7	<2.7	<2.4
	gamma-Chlordane	N/A	N/A	ug/kg	<28.7	<5.7	<29.5	<6.2	<5.6
	4,4'-DDD	9,570	N/A	ug/kg	<20.7	<4.1	<21.3	9.7 J	<4.0
	4,4'-DDE	9,380	N/A	ug/kg	<19.4	<3.8	<19.9	11.5 J	<3.8
	4,4'-DDT	8,530	N/A	ug/kg	<43.6	<8.6	<44.8	<9.4	<8.5
	Dieldrin	144	N/A	ug/kg	<18.6	4.9 J	<19.1	5.2 J	<3.6
	Endosulfan I	N/A	N/A	ug/kg	<14.9	<2.9	<15.3	<3.2	<2.9
	Endosulfan II	N/A	N/A	ug/kg	<29.6	<5.8	<30.4	<6.4	<5.8
	Endosulfan sulfate	N/A	N/A	ug/kg	<35.8	<7.1	<36.7	<7.7	<7.0
	Endrin	246,000	162	ug/kg	<20.4	<4.0	<20.9	<4.4	<4.0
	Endrin aldehyde	N/A	N/A	ug/kg	<40.2	<7.9	<41.4	<8.7	<7.8
	Endrin ketone	N/A	N/A	ug/kg	<49.4	<9.8	<50.8	<10.7	<9.6
	Heptachlor	654	66.2	ug/kg	<20.1	<4.0	<20.7	<4.4	<3.9
	Heptachlor epoxide	338	8.2	ug/kg	<13.8	<2.7	<14.2	<3.0	<2.7
	Methoxychlor	4,100,000	4,320	ug/kg	<295	<58.3	<303	<63.9	<57.4
	Toxaphene	2,090	928	ug/kg	<791	<156	<813	<171	<154
EPA 8082A	PCBs - Total	N/A	9.4	ug/kg	22.6 J	22.7 J	62.1	141	21.8 J
	PCBs - Aroclor 1016	28,000	N/A	ug/kg	<16.4	<16.2	<16.7	<17.7	<16.0
	PCBs - Aroclor 1221	883	N/A	ug/kg	<16.4	<16.2	<16.7	<17.7	<16.0
	PCBs - Aroclor 1232	792	N/A	ug/kg	<16.4	<16.2	<16.7	<17.7	<16.0
	PCBs - Aroclor 1242	972	N/A	ug/kg	<16.4	<16.2	<16.7	22.2 J	<16.0
	PCBs - Aroclor 1248	975	N/A	ug/kg	<16.4	<16.2	<16.7	<17.7	<16.0
	PCBs - Aroclor 1254	988	N/A	ug/kg	22.6 J	22.7 J	40.1 J	62.6	21.8 J
	PCBs - Aroclor 1260	1,000	N/A	ug/kg	<16.4	<16.2	22.0 J	55.9 J	<16.0
EPA 8270 PAHs	1-Methylnaphthalene	72,700	N/A	ug/kg	25.0 J	16.0 J	163 J	35.7	<25.5
	2-Methylnaphthalene	3,010,000	N/A	ug/kg	29.4 J	23.0	151 J	52.1	<25.5
	Acenaphthene	45,200,000	N/A	ug/kg	29.8 J	3.4 J	104 J	22.9	<22.7
	Acenaphthylene	N/A	N/A	ug/kg	15.1 J	9.4 J	145 J	24.4	22.1 J
	Anthracene	100,000,000	196,949	ug/kg	35.1 J	15.6 J	356	58.6	114 J
	Benzo(a)anthracene	20,800	N/A	ug/kg	168	64.1	730	172	680
	Benzo(a)pyrene	2,110	470	ug/kg	254	99.1	909	225	960
	Benzo(b)fluoranthene	21,100	478.1	ug/kg	367	135	1090	339	1410
	Benzo(ghi)perylene	N/A	N/A	ug/kg	169	88.7	673	132	593
	Benzo(k)fluoranthene	211,000	N/A	ug/kg	145	59.0	478	126	537
	Chrysene	2,110,000	144.2	ug/kg	245	89.2	878	228	951
	Dibenzo(a,h)anthracene	2,110	N/A	ug/kg	39.9	18.5	172 J	45.4	157 J
	Fluoranthene	30,100,000	88,878	ug/kg	381	131	1540	318	1640
	Fluorene	30,100,000	14,830	ug/kg	17.3 J	4.9 J	182 J	27.6	21.0 J
	Indeno(1,2,3-cd)pyrene	21,100	N/A	ug/kg	139	67.9	501	117	524
	Naphthalene	24,100	658.2	ug/kg	24.4 J	19.3	182 J	118	<17.0
	Phenanthrene	N/A	N/A	ug/kg	138	46.6	1020	220	520
	Pyrene	22,600,000	54,546	ug/kg	283	100	1190	236	1200

Notes:
< = Parameter not detected at or above the laboratory detection limit shown.
J = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ).
N/A = Not available
NT = Not Tested
VOC = Volatile organic compound
TCLP = Toxicity characteristic leaching procedure
PAH = Polycyclic aromatic hydrocarbons
PCB = Polychlorinated biphenyls

Prepared by: RLP1
Checked by: RJM7

2.0 = Concentration above WDNR Industrial Direct Contact Residual Contaminant Level (RCL).
1.1 = Concentration above WDNR Groundwater Pathway RCL.

1= WDNR Industrial Direct Contact and Groundwater Pathway RCLs from WDNR online RCL Excel Spreadsheet, updated December 2018. DF=2 for GW RCL.
2= Statewide background threshold values used in the WDNR online RCL Excel spreadsheet are referenced as non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202*. See also WDNR Publication RR-940.

Table 2
Soil Analytical Results Compared to WI NR 720 Criteria
B34/B35 Supplemental Investigation
Fincantieri Marinette Marine
Marinette, WI

Analysis		WDNR NR 720 Direct Contact RCL[1]	WDNR NR 720 GW Pathway RCL[1]	Units	Sample ID GP-5, 0.2 - 4.0'	GP-6, 0.2 - 5.0'	GP-7, 0.3 - 5.0'	GP-8, 0.3 - 6.5'	GP-9, 0.2 - 4.0'
ASTM D2974-87	Moisture	N/A	N/A	%	5.4	7.5	6.6	8.6	6.4
EPA 8260 Detected VOCs	Benzene	7,070	5.1	ug/kg	<25	<25	<25	<25	<25
	Ethylbenzene	35,400	1,570	ug/kg	<25	<25	<25	<25	<25
	Chlorobenzene	761,000	135.8	ug/kg	<25	<25	<25	<25	<25
	p-Isopropyltoluene	162,000	N/A	ug/kg	<25	<25	<25	84.6	<25
	1,4-Dichlorobenzene	16,400	144.0	ug/kg	<25	<25	<25	<25	<25
	n-Butylbenzene	108,000	N/A	ug/kg	<30	<30	<30	<30	<30
	sec-Butylbenzene	145,000	N/A	ug/kg	<25	<25	<25	<25	<25
	tert-Butylbenzene	183,000	N/A	ug/kg	<25	<25	<25	<25	<25
	Naphthalene	24,100	658.2	ug/kg	67.2 J	<27.3	<27.3	31.4 J	29.3 J
	Toluene	818,000	1,107	ug/kg	<25	58.3 J	<25	<25	82.3
	1,2,4-Trimethylbenzene	219,000	1378.7	ug/kg	45.0 J	<25	<25	<25	<25
	1,3,5-Trimethylbenzene	182,000		ug/kg	<25	<25	<25	<25	<25
	m&p-Xylene	260,000	3960	ug/kg	<50	<50	<50	<50	<50
	o-Xylene			ug/kg	<25	<25	<25	<25	33.6 J
EPA 6020 Metals	Arsenic	8.3[2]	8.3[2]	mg/kg	2.2	4.0	3.1	2.8	2.0
	Barium	100,000	164.8	mg/kg	12.1	44.3	16.2	26.4	13.4
	Cadmium	985	0.752	mg/kg	0.10 J	0.71 J	0.11 J	0.14 J	<0.099
	Chromium	43.5[2]	43.5[2]	mg/kg	11.7	10.6	9.2	11.5	9.5
	Copper	46,700	91.6	mg/kg	13.1	34.8	20.8	20.5	10
	Lead	800	27	mg/kg	18.0	129	25.1	33.5	18.5
	Selenium	5,840	0.52	mg/kg	0.34 J	0.55 J	0.34 J	0.36 J	0.34 J
	Silver	5,840	0.85	mg/kg	<0.096	<0.10	<0.10	<0.10	<0.097
	Zinc	100,000	N/A	mg/kg	60.6	1790	66.8	119	30.9
EPA 7471	Mercury	3.13	0.208	mg/kg	0.015 J	0.070	0.017 J	0.044	0.015 J
EPA 6010 TCLP	Arsenic	NA	NA	mg/L	NT	NT	NT	NT	NT
	Lead	NA	NA	mg/L	NT	0.056	NT	NT	NT
EPA 6020 Water Neutral Leach	Lead	NA	NA	mg/L	NT	<0.00024	NT	NT	NT
	Zinc	NA	NA	mg/L	NT	<0.010	NT	NT	NT
EPA 8081 Pesticides	Aldrin	187	N/A	ug/kg	<5.6	<2.9	<11.3	<29.2	<2.9
	alpha-BHC	365	N/A	ug/kg	<2.4	<1.2	<4.8	<12.5	<1.2
	beta-BHC	1,280	N/A	ug/kg	<4.0	<2.1	<8.1	<20.9	<2.0
	delta-BHC	N/A	N/A	ug/kg	<3.1	<1.6	<6.2	<15.9	<1.6
	gamma-BHC (Lindane)	2,540	2.3	ug/kg	<2.2	<1.1	<4.5	<11.6	<1.1
	Chlordane	7,760	542	ug/kg	<57.8	<29.7	<117	<300	<29.4
	alpha-Chlordane	N/A	N/A	ug/kg	<2.4	<1.2	<4.9	<12.6	<1.2
	gamma-Chlordane	N/A	N/A	ug/kg	<5.6	<2.9	<11.4	<29.3	<2.9
	4,4'-DDD	9,570	N/A	ug/kg	<4.1	<2.1	<8.2	<21.1	<2.1
	4,4'-DDE	9,380	N/A	ug/kg	<3.8	<2.0	<7.7	<19.8	2.7 J
	4,4'-DDT	8,530	N/A	ug/kg	<8.6	<4.4	<17.3	<44.4	<4.3
	Dieldrin	144	N/A	ug/kg	<3.7	6.1 J	<7.4	<19.0	<1.9
	Endosulfan I	N/A	N/A	ug/kg	<2.9	<1.5	<5.9	<15.2	<1.5
	Endosulfan II	N/A	N/A	ug/kg	<5.8	<3.0	<11.7	<30.2	<3.0
	Endosulfan sulfate	N/A	N/A	ug/kg	<7.0	<3.6	<14.2	<36.5	<3.6
	Endrin	246,000	162	ug/kg	<4.0	<2.1	<8.1	<20.8	<2.0
	Endrin aldehyde	N/A	N/A	ug/kg	<7.9	<4.1	<15.9	<41.0	<4.0
	Endrin ketone	N/A	N/A	ug/kg	<9.7	12.1 J	<19.6	<50.4	<4.9
	Heptachlor	654	66.2	ug/kg	<3.9	<2.0	<8.0	<20.5	<2.0
	Heptachlor epoxide	338	8.2	ug/kg	<2.7	<1.4	<5.5	<14.1	3.6 J
	Methoxychlor	4,100,000	4320	ug/kg	<58.0	<29.7	<117	<301	<29.5
	Toxaphene	2,090	928	ug/kg	<155	<79.8	<313	<807	<79.0
EPA 8082A	PCBs - Total	N/A	9.4	ug/kg	57.6	599	27.5 J	47.4 J	507
	PCBs - Aroclor 1016	28,000	N/A	ug/kg	<16.1	<16.4	<16.4	<16.7	<16.2
	PCBs - Aroclor 1221	883	N/A	ug/kg	<16.1	<16.4	<16.4	<16.7	<16.2
	PCBs - Aroclor 1232	792	N/A	ug/kg	<16.1	<16.4	<16.4	<16.7	<16.2
	PCBs - Aroclor 1242	972	N/A	ug/kg	<16.1	455	<16.4	<16.7	507
	PCBs - Aroclor 1248	975	N/A	ug/kg	<16.1	<16.4	<16.4	<16.7	<16.2
	PCBs - Aroclor 1254	988	N/A	ug/kg	57.6	125	27.5 J	47.4 J	<16.2
	PCBs - Aroclor 1260	1,000	N/A	ug/kg	<16.1	19.0 J	<16.4	<16.7	<16.2
EPA 8270 PAHs	1-Methylnaphthalene	72,700	N/A	ug/kg	17.3 J	47.7	20.2	36.9	35.6
	2-Methylnaphthalene	3,010,000	N/A	ug/kg	18.3 J	59.9	30.1	54.0	48.9
	Acenaphthene	45,200,000	N/A	ug/kg	17.0 J	8.0 J	<2.3	9.3 J	<2.3
	Acenaphthylene	N/A	N/A	ug/kg	39.8	8.5 J	7.3 J	105	5.5 J
	Anthracene	100,000,000	196,949	ug/kg	55.2	16.6 J	10.6 J	82.9	6.9 J
	Benzo(a)anthracene	20,800	N/A	ug/kg	110	38.4	33.6	296	21.9
	Benzo(a)pyrene	2,110	470	ug/kg	151	41.9	58.9	434	38.0
	Benzo(b)fluoranthene	21,100	478.1	ug/kg	193	60.9	76.9	525	51.0
	Benzo(ghi)perylene	N/A	N/A	ug/kg	124	24.3	53.1	289	43.8
	Benzo(k)fluoranthene	211,000	N/A	ug/kg	78.1	22.9	33.2	203	19.7
	Chrysene	2,110,000	144.2	ug/kg	142	49.2	51.5	330	29.3
	Dibenzo(a,h)anthracene	2,110	N/A	ug/kg	30.8 J	6.4 J	10.6 J	70.6	7.2 J
	Fluoranthene	30,100,000	88,878	ug/kg	212	73.3	62.3	495	34.7
	Fluorene	30,100,000	14,830	ug/kg	28.6 J	11.3 J	3.7 J	16.3 J	3.6 J
	Indeno(1,2,3-cd)pyrene	21,100	N/A	ug/kg	94.5	19.4	38.2	248	30.8
	Naphthalene	24,100	658.2	ug/kg	46.5	43.0	23.2	69.8	33.0
	Phenanthrene	N/A	N/A	ug/kg	122	70.4	29.0	167	31.2
	Pyrene	22,600,000	54,546	ug/kg	174	<2.7	55.8	406	36.2

Notes:
< = Parameter not detected at or above the laboratory detection limit shown.
J = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ).
N/A = Not available
NT = Not Tested
VOC = Volatile organic compound
TCLP = Toxicity characteristic leaching procedure
PAH = Polycyclic aromatic hydrocarbons
PCB = Polychlorinated biphenyls
2.0 = Concentration above WDNR Industrial Direct Contact Residual Contaminant Level (RCL).
1.1 = Concentration above WDNR Groundwater Pathway RCL.
1= WDNR Industrial Direct Contact and Groundwater Pathway RCLs from WDNR online RCL Excel Spreadsheet, updated December 2018. DF=2 for GW RCL.
2= Statewide background threshold values used in the WDNR online RCL Excel spreadsheet are referenced as non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* . See also WDNR Publication RR-940.

Prepared by: RLP1
Checked by: RJM7

Table 2
Soil Analytical Results Compared to WI NR 720 Criteria
B34/B35 Supplemental Investigation
Fincantieri Marinette Marine
Marinette, WI

Analysis		WDNR NR 720 Direct Contact RCL[1]	WDNR NR 720 GW Pathway RCL[1]	Units	Sample ID GP-10, 0.3 - 4.0'	GP-11, 0.3 - 4.5'	GP-12, 0.2 - 5.0'	GP-12, 5.0 - 7.5'	GP-13, 0.2 - 4.0'
ASTM D2974-87	Moisture	N/A	N/A	%	8.1	9.1	5.8	15.4	9.6
EPA 8260 Detected VOCs	Benzene	7,070	5.1	ug/kg	<25	<25	<25	<25	<25
	Ethylbenzene	35,400	1,570	ug/kg	<25	<25	<25	<25	<25
	Chlorobenzene	761,000	135.8	ug/kg	<25	<25	<25	<25	<25
	p-Isopropyltoluene	162,000	N/A	ug/kg	<25	<25	<25	<25	<25
	1,4-Dichlorobenzene	16,400	144.0	ug/kg	<25	<25	<25	<25	<25
	n-Butylbenzene	108,000	N/A	ug/kg	<30	<30	<30	<30	<30
	sec-Butylbenzene	145,000	N/A	ug/kg	<25	<25	<25	<25	<25
	tert-Butylbenzene	183,000	N/A	ug/kg	<25	<25	<25	<25	<25
	Naphthalene	24,100	658.2	ug/kg	<27.3	<27.3	49.2 J	52.7 J	57.4 J
	Toluene	818,000	1,107	ug/kg	<25	<25	<25	<25	116
	1,2,4-Trimethylbenzene	219,000	1378.7	ug/kg	<25	<25	<25	<25	30.3 J
	1,3,5-Trimethylbenzene	182,000		ug/kg	<25	<25	<25	<25	<25
	m&p-Xylene	260,000	3960	ug/kg	<50	<50	<50	<50	96.6 J
	o-Xylene			ug/kg	<25	<25	<25	<25	49.4 J
EPA 6020 Metals	Arsenic	8.3[2]	8.3[2]	mg/kg	3.5	4.0	2.8	5.1	44.4
	Barium	100,000	164.8	mg/kg	22.4	34.4	35.2	34.5	182
	Cadmium	985	0.752	mg/kg	0.12 J	<0.11	<0.098	0.39 J	3.1
	Chromium	43.5[2]	43.5[2]	mg/kg	12.4	14.9	10.2	12.5	14.8
	Copper	46,700	91.6	mg/kg	29.0	26.7	17.0	24.3	74.4
	Lead	800	27	mg/kg	21.5	28.5	24.8	207	269
	Selenium	5,840	0.52	mg/kg	0.59 J	0.55 J	0.48 J	0.57 J	0.76
	Silver	5,840	0.85	mg/kg	<0.10	<0.10	<0.096	0.14 J	0.27 J
	Zinc	100,000	N/A	mg/kg	56.6	110	48.3	84.3	803
EPA 7471	Mercury	3.13	0.208	mg/kg	0.038	0.028 J	0.012 J	0.074	0.44
EPA 6010 TCLP	Arsenic	NA	NA	mg/L	NT	NT	NT	NT	NT
	Lead	NA	NA	mg/L	NT	NT	NT	0.033	0.044
EPA 6020 Water Neutral Leach	Lead	NA	NA	mg/L	NT	NT	NT	<0.00024	<0.00024
	Zinc	NA	NA	mg/L	NT	NT	NT	<0.010	<0.010
EPA 8081 Pesticides	Aldrin	187	N/A	ug/kg	<29.1	<29.2	<5.7	<31.5	<29.5
	alpha-BHC	365	N/A	ug/kg	<12.4	<12.5	<2.4	<13.5	<12.6
	beta-BHC	1,280	N/A	ug/kg	<20.9	<21.0	<4.1	<22.6	<21.2
	delta-BHC	N/A	N/A	ug/kg	<15.9	<15.9	<3.1	<17.2	<16.1
	gamma-BHC (Lindane)	2,540	2.3	ug/kg	<11.5	<11.6	4.2 J	<12.5	<11.7
	Chlordane	7,760	542	ug/kg	<299	<301	<58.4	<324	<304
	alpha-Chlordane	N/A	N/A	ug/kg	<12.5	<12.6	<2.4	<13.6	<12.7
	gamma-Chlordane	N/A	N/A	ug/kg	<29.2	<29.3	<5.7	<31.6	<29.6
	4,4'-DDD	9,570	N/A	ug/kg	<21.0	<21.1	<4.1	<22.8	<21.3
	4,4'-DDE	9,380	N/A	ug/kg	<19.7	<19.8	<3.8	<21.4	<20.0
	4,4'-DDT	8,530	N/A	ug/kg	<44.3	<44.5	<8.6	<48.0	<44.9
	Dieldrin	144	N/A	ug/kg	<18.9	<19.0	<3.7	<20.5	<19.2
	Endosulfan I	N/A	N/A	ug/kg	<15.2	<15.2	<3.0	<16.4	<15.4
	Endosulfan II	N/A	N/A	ug/kg	<30.1	<30.3	<5.9	<32.6	<30.5
	Endosulfan sulfate	N/A	N/A	ug/kg	<36.3	<36.5	<7.1	<39.4	<36.9
	Endrin	246,000	162	ug/kg	<20.7	<20.8	<4.0	<22.4	<21.0
	Endrin aldehyde	N/A	N/A	ug/kg	<40.9	<41.1	<8.0	<44.3	<41.5
	Endrin ketone	N/A	N/A	ug/kg	<50.2	<50.5	<9.8	<54.4	<51.0
	Heptachlor	654	66.2	ug/kg	<20.4	<20.5	<4.0	<22.1	<20.7
	Heptachlor epoxide	338	8.2	ug/kg	<14.0	<14.1	<2.7	<15.2	<14.2
	Methoxychlor	4,100,000	4320	ug/kg	<300	<301	<58.5	<325	<304
	Toxaphene	2,090	928	ug/kg	<804	<808	<157	<871	<816
EPA 8082A	PCBs - Total	N/A	9.4	ug/kg	67.2	25.4 J	35.7 J	87.4	156
	PCBs - Aroclor 1016	28,000	N/A	ug/kg	<16.5	<16.7	<16.1	<17.9	<16.8
	PCBs - Aroclor 1221	883	N/A	ug/kg	<16.5	<16.7	<16.1	<17.9	<16.8
	PCBs - Aroclor 1232	792	N/A	ug/kg	<16.5	<16.7	<16.1	<17.9	<16.8
	PCBs - Aroclor 1242	972	N/A	ug/kg	<16.5	<16.7	<16.1	<17.9	<16.8
	PCBs - Aroclor 1248	975	N/A	ug/kg	<16.5	<16.7	<16.1	<17.9	<16.8
	PCBs - Aroclor 1254	988	N/A	ug/kg	35.0 J	25.4 J	35.7 J	48.7 J	156
	PCBs - Aroclor 1260	1,000	N/A	ug/kg	32.2 J	<16.7	<16.1	38.8 J	<16.8
EPA 8270 PAHs	1-Methylnaphthalene	72,700	N/A	ug/kg	26.1	<26.8	67.0	61.6 J	266
	2-Methylnaphthalene	3,010,000	N/A	ug/kg	35.8	<26.9	77.3	73.2 J	387
	Acenaphthene	45,200,000	N/A	ug/kg	5.8 J	<23.8	8.8 J	54.3 J	12.4 J
	Acenaphthylene	N/A	N/A	ug/kg	37.2	111 J	32.2 J	159 J	21.1 J
	Anthracene	100,000,000	196,949	ug/kg	32.7	291	28.3 J	391	34.1 J
	Benzo(a)anthracene	20,800	N/A	ug/kg	100	490	113	776	78.4
	Benzo(a)pyrene	2,110	470	ug/kg	166	546	152	926	96.9
	Benzo(b)fluoranthene	21,100	478.1	ug/kg	186	746	231	1060	141
	Benzo(ghi)perylene	N/A	N/A	ug/kg	96.3	263	130	563	85.1
	Benzo(k)fluoranthene	211,000	N/A	ug/kg	92.0	293	87.8	466	49.3
	Chrysene	2,110,000	144.2	ug/kg	114	546	150	860	109
	Dibenzo(a,h)anthracene	2,110	N/A	ug/kg	22.8	77.2 J	29.5 J	162 J	18.5 J
	Fluoranthene	30,100,000	88,878	ug/kg	142	1240	257	1670	150
	Fluorene	30,100,000	14,830	ug/kg	5.4 J	56.4 J	17.3 J	130 J	27.0 J
	Indeno(1,2,3-cd)pyrene	21,100	N/A	ug/kg	84.4	251	105	488	57.5
	Naphthalene	24,100	658.2	ug/kg	31.8	29.4 J	71.2	82.5 J	355
	Phenanthrene	N/A	N/A	ug/kg	49.5	849	114	1020	199
	Pyrene	22,600,000	54,546	ug/kg	152	854	184	1290	110

Notes:
< = Parameter not detected at or above the laboratory detection limit shown.
J = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ).
N/A = Not available
NT = Not Tested
VOC = Volatile organic compound
TCLP = Toxicity characteristic leaching procedure
PAH = Polycyclic aromatic hydrocarbons
PCB = Polychlorinated biphenyls
2.0 = Concentration above WDNR Industrial Direct Contact Residual Contaminant Level (RCL).
1.1 = Concentration above WDNR Groundwater Pathway RCL.
1= WDNR Industrial Direct Contact and Groundwater Pathway RCLs from WDNR online RCL Excel Spreadsheet, updated December 2018. DF=2 for GW RCL.
2= Statewide background threshold values used in the WDNR online RCL Excel spreadsheet are referenced as non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* . See also WDNR Publication RR-940.

Prepared by: RLP1
Checked by: RJM7

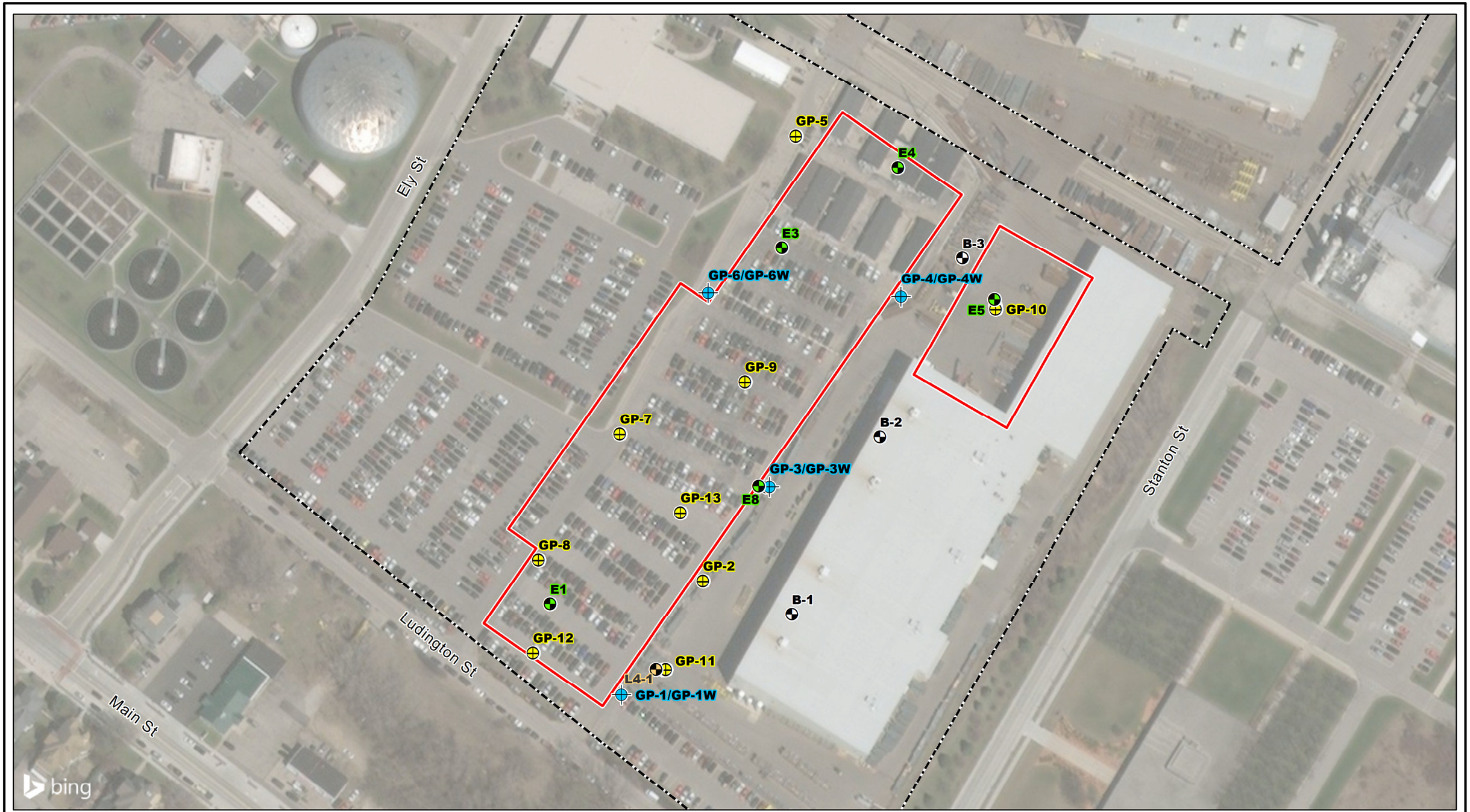
Table 3
September 29, 2020 Groundwater Analytical Results
B34/B35 Supplemental Investigation
Fincantieri Marinette Marine
Marinette, Wisconsin

Parameter		WDNR NR 140 PAL	WDNR NR 140 ES	Units	Sample ID GP-1W	GP-3W	GP-4W	GP-4W-D	GP-6W	GP-W-ER
EPA 8260 Detected VOCs	Benzene	0.5	5	µg/L	3.4	2.5	<0.25	<0.25	<0.25	NT
	Chlorobenzene	20	100	µg/L	2.0 J	0.74 J	<0.71	<0.71	<0.71	NT
	n-Butylbenzene	N/A	N/A	µg/L	<0.71	5.3	<0.71	<0.71	<0.71	NT
	sec-Butylbenzene	N/A	N/A	µg/L	<0.85	1.6 J	<0.85	<0.85	<0.85	NT
	tert-Butylbenzene	N/A	N/A	µg/L	<0.30	1.3	<0.30	<0.30	<0.30	NT
	Naphthalene	10	100	µg/L	<1.2	2.9 J	<1.2	<1.2	<1.2	NT
	Toluene	160	800	µg/L	0.66 J	<0.27	<0.27	<0.27	<0.27	NT
	1,2,4-Trimethylbenzene	96	480	µg/L	<0.84	3.4	<0.84	<0.84	<0.84	NT
	1,3,5-Trimethylbenzene				<0.87	<0.87	<0.87	<0.87	<0.87	NT
	m&p-Xylene	400	2,000	µg/L	0.65 J	<0.47	<0.47	<0.47	<0.47	NT
	o-Xylene				0.39 J	<0.26	<0.26	<0.26	<0.26	NT
EPA 6020 Metals	Arsenic (total)	1	10	µg/L	28.9	115	8.7	8.1	168	NT
	Arsenic (dissolved)				25.1	114	9.9	10	169	NT
	Barium (total)	400	2000	µg/L	736	708	102	95.6	1850	NT
	Barium (dissolved)				720	694	116	120	1880	NT
	Cadmium (total)	5	0.5	µg/L	2.6 J	<0.76	<0.76	<0.76	<0.76	NT
	Cadmium (dissolved)				1.5 J	2.4 J	<0.76	<0.76	<0.76	NT
	Chromium (total)	10	100	µg/L	6.4 J	<5.1	<5.1	<5.1	<5.1	NT
	Chromium (dissolved)				<5.1	<5.1	<5.1	<5.1	<5.1	NT
	Copper (total)	130	1300	µg/L	<9.5	<9.5	<9.5	<9.5	<9.5	NT
	Copper (dissolved)				<9.5	<9.5	<9.5	<9.5	<9.5	NT
	Lead (total)	1.5	15	µg/L	8.1	3.7 J	<1.2	<1.2	<1.2	NT
	Lead (dissolved)				4.0 J	3.0 J	<1.2	<1.2	<1.2	NT
	Selenium (total)	10	50	µg/L	3.5 J	<1.6	<1.6	<1.6	<1.6	NT
	Selenium (dissolved)				2.7 J	3.2 J	<1.6	<1.6	<1.6	NT
	Silver (total)	10	50	µg/L	1.3 J	<0.64	<0.64	<0.64	<0.64	NT
	Silver (dissolved)				0.88 J	1.3 J	<0.64	<0.64	<0.64	NT
	Zinc (total)	2500	5,000	µg/L	<51.6	<51.6	281	254	<51.6	NT
	Zinc (dissolved)				<51.6	<51.6	241	222	<51.6	NT
EPA 7470	Mercury (total)	0.2	2	µg/L	<0.066	<0.066	<0.066	<0.066	<0.066	NT
	Mercury (dissolved)				<0.066	<0.066	<0.066	<0.066	<0.066	NT
EPA 8081 Detected Pesticides	alpha-BHC	N/A	N/A	µg/L	0.017 J	<0.0065	<0.0064	<0.0064	<0.0067	NT
	beta-BHC	N/A	N/A	µg/L	0.019 J	0.022 J	<0.010	<0.010	<0.011	NT
	alpha-Chlordane	N/A	N/A	µg/L	0.010 J	<0.0059	<0.0058	<0.0058	<0.0060	NT
	Endosulfan I	N/A	N/A	µg/L	0.011 J	0.022 J	<0.0072	<0.0072	<0.0075	NT
	Endrin ketone	N/A	N/A	µg/L	0.055 J	<0.025	<0.025	<0.025	<0.026	NT
EPA 8082	PCBs - Total	0.003	0.03	µg/L	<0.11	<0.11	<0.11	<0.11	<0.11	NT
	PCBs - Aroclor 1016	N/A	N/A	µg/L	<0.11	<0.11	<0.11	<0.11	<0.11	NT
	PCBs - Aroclor 1221	N/A	N/A	µg/L	<0.11	<0.11	<0.11	<0.11	<0.11	NT
	PCBs - Aroclor 1232	N/A	N/A	µg/L	<0.11	<0.11	<0.11	<0.11	<0.11	NT
	PCBs - Aroclor 1242	N/A	N/A	µg/L	<0.11	<0.11	<0.11	<0.11	<0.11	NT
	PCBs - Aroclor 1248	N/A	N/A	µg/L	<0.11	<0.11	<0.11	<0.11	<0.11	NT
	PCBs - Aroclor 1254	N/A	N/A	µg/L	<0.11	<0.11	<0.11	<0.11	<0.11	NT
	PCBs - Aroclor 1260	N/A	N/A	µg/L	<0.11	<0.11	<0.11	<0.11	<0.11	NT
EPA 8270 Detected PAHs	1-Methylnaphthalene	N/A	N/A	µg/L	0.53	1.1	<0.0057	<0.0057	0.0096 J	NT
	2-Methylnaphthalene	N/A	N/A	µg/L	0.55	2.4	0.0051 J	0.0061 J	<0.0047	NT
	Acenaphthene	N/A	N/A	µg/L	0.19	0.060	<0.0058	<0.0059	0.010 J	NT
	Anthracene	600	3,000	µg/L	0.020 J	0.018 J	<0.010	<0.010	<0.010	NT
	Fluoranthene	80	400	µg/L	0.022 J	0.033 J	<0.010	<0.010	<0.010	NT
	Fluorene	80	400	µg/L	0.080	0.066	<0.0077	<0.0077	0.0082 J	NT
	Naphthalene	10	100	µg/L	0.29	1.9	<0.018	<0.018	0.021 J	NT
	Phenanthrene	N/A	N/A	µg/L	0.14	0.12	<0.013	<0.013	<0.013	NT
	Pyrene	50	250	µg/L	0.018 J	0.035 J	<0.0074	<0.0074	0.0093 J	NT
MODIFIED EPA 537 Detected PFAS	PFOA	2*	20*	ng/L	500	300	100	110	110	<0.79
	PFOS	2*	20*	ng/L	90	54	390	380	44	<0.50
	PFBS	N/A	N/A	ng/L	7.1	7.1	4.0	4.2	6.2	<0.19
	PFBA	N/A	N/A	ng/L	93	160	320	330	95	<2.2
	PFPeA	N/A	N/A	ng/L	190	620	1100	1100	260	<0.46
	PFHxA	N/A	N/A	ng/L	200	520	810	820	250	<0.54
	PFHpA	N/A	N/A	ng/L	140	200	220	220	130	<0.23
	PFNA	N/A	N/A	ng/L	14	8.3	53	54	21	<0.25
	PFDA	N/A	N/A	ng/L	1.7 J	<0.27	38	36	0.62 J	<0.29
	PFUnA	N/A	N/A	ng/L	<1.0	<0.97	3.2	3.1	<0.96	<1.0
	PFDoA	N/A	N/A	ng/L	<0.50	<0.48	1.9	2.0	<0.48	<0.51
	PFPeS	N/A	N/A	ng/L	9.0	7.9	2.6	3.2	1.2 J	<0.28
	PFHxS	N/A	N/A	ng/L	150	150	89	93	28	<0.53
	PFHpS	N/A	N/A	ng/L	4.3	3.2	4.7	4.5	2.6	<0.18
	FOSA	N/A	N/A	ng/L	31	<0.86	1.5 J	1.4 J	<0.86	<0.91
	NMeFOSAA	N/A	N/A	ng/L	2.6 J	<1.1	<1.1	<1.1	<1.0	<1.1
	NEtFOSAA	N/A	N/A	ng/L	6.0	11	<1.2	<1.2	2.9 J	<1.2
	4:2 FTS - DL	N/A	N/A	ng/L	<22	<21	<0.22	<0.23	2.2 J	<0.22
	6:2 FTS - DL	N/A	N/A	ng/L	380 J	440	6.6	6.1	98	<2.3
	8:2 FTS - DL	N/A	N/A	ng/L	<42	<41	0.90 J	0.96 J	20	<0.43

Notes:
WDNR PAL = Wisconsin Dept. of Natural Resources NR 140 Preventive Action Limit.
WDNR ES = Wisconsin Dept. of Natural Resources NR 140 Enforcement Standard.
< = Parameter not detected at or above the laboratory detection limit shown.
J = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ).
* = Recommended Standard. Currently standards are N/A.
N/A = Not available
NT = Not Tested
VOC = Volatile organic compound
PAH = Polycyclic aromatic hydrocarbons
PCB = Polychlorinated biphenyls
PFAS = Per- and polyfluoroalkyl substance
PFOA = Perfluorooctanoic acid
PFOS = Perfluorooctanesulfonic acid
115 = Concentration above WDNR ES.
8.1 = Concentration above WDNR PAL.

Prepared by: RLP1
Checked by: RJM7

Figures



NOTES:

1. Imagery basemap from esri.com, courtesy of the Microsoft Corporation and its data suppliers.
2. Horizontal coordinate system is NAD 1983 Wisconsin State Plane Central, units in feet.

LEGEND

- Foth September 2020 Soil Boring Location
- Foth September 2020 Soil Boring/Monitoring Well Location
- Foth June-July 2020 Boring Location
- Foth 2018 Boring Location
- STS 2010 Boring Location
- Proposed Building Footprint
- Approximate Property Boundary

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

N

0 60 120 Feet

FINCANTIERI MARINETTE MARINE

Foth

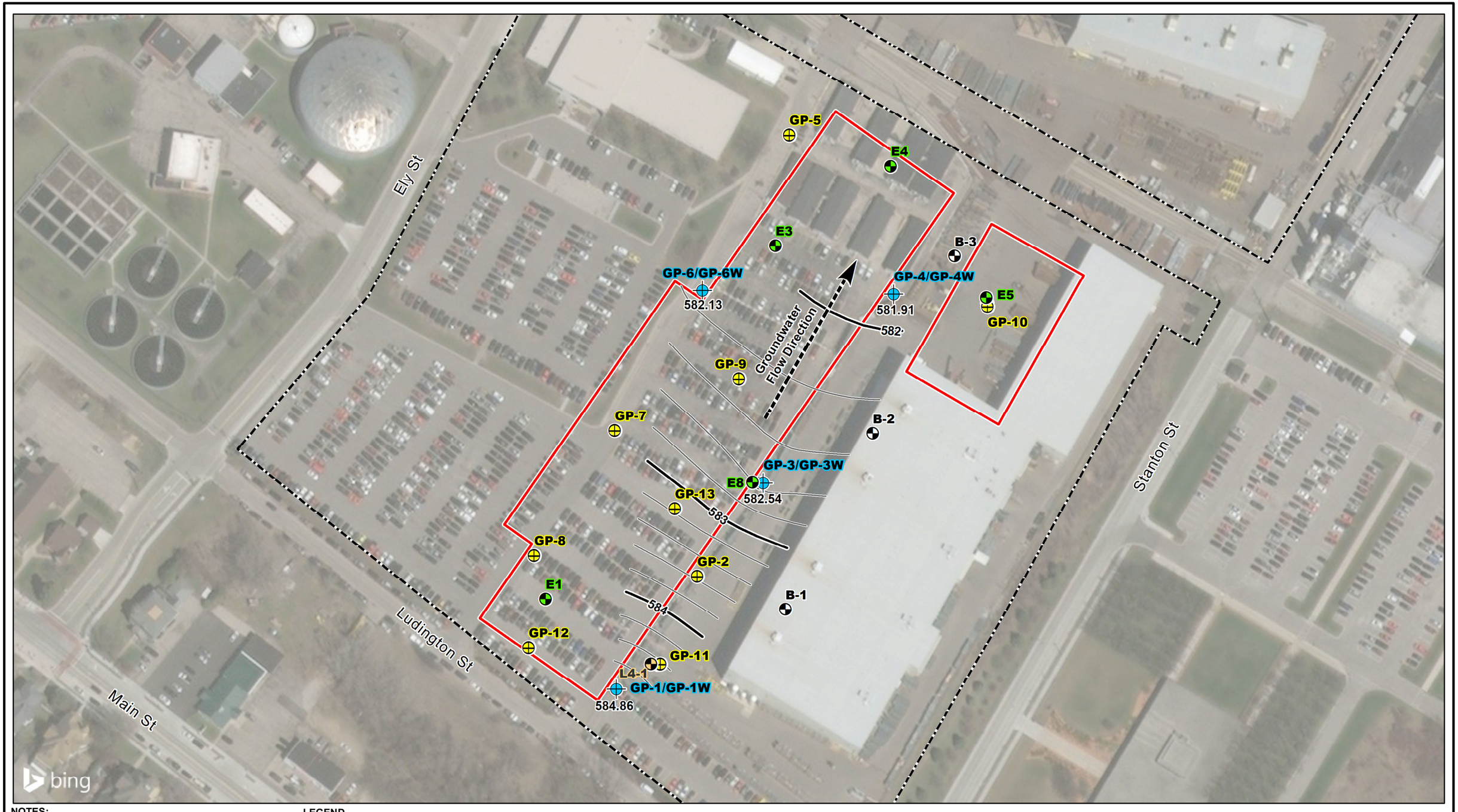
FINCANTIERI MARINETTE MARINE

FIGURE 1

SOIL BORING AND MONITORING WELL LOCATIONS
FINCANTIERI MARINETTE MARINE
1600 ELY STREET
MARINETTE, WI 54143

Date: OCTOBER 2020	Revision Date:	
Drawn By: BJW1	Checked By: RLP1	Project: 19M106

Path: Q:\Marinette Marine Corporation\19M106\GIS\mxd\Supplemental Investigation Memo\Figure 1 -Soil and Monitoring Well Locations.mxd Date: 10/27/2020



NOTES:

1. Imagery basemap from esri.com, courtesy of the Microsoft Corporation and its data suppliers.
2. Horizontal coordinate system is NAD 1983 Wisconsin State Plane Central, units in feet.

LEGEND

- Foth September 2020 Soil Boring
- Foth September 2020 Soil Boring/ Monitoring Well Location
- Foth June-July 2020 Boring Location
- Foth 2018 Boring Location
- STS 2010 Boring Location
- 1' Groundwater Contour
- 0.2' Groundwater Contour
- Proposed Building Footprint
- Approximate Property Boundary

FINCANTIERI MARINETTE MARINE

Foth

N

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

0 60 120 Feet

FINCANTIERI MARINETTE MARINE

FIGURE 2

GROUNDWATER CONTOUR MAP (9/29/2020)
FINCANTIERI MARINETTE MARINE
1600 ELY STREET
MARINETTE, WI 54143

Date: OCTOBER 2020	Revision Date:	
Drawn By: BJW1	Checked By: RLP1	Project: 19M106

Path: Q:\Marinette Marine Corporation\19M106\GIS\mxd\Figure 2 -Water Table Contour Map 9-29-2020.mxd Date: 10/27/2020

Attachment 1

Boring Logs

BORING NUMBER GP-1

Foth

CLIENT Fincantieri Marinette Marine
PROJECT NAME B34-B35 Supplemental Yard Investigation
PROJECT NUMBER 19M106.20
PROJECT LOCATION Marinette, WI
DATE STARTED 9/23/20 **COMPLETED** 9/23/20
GROUND ELEVATION 588.8 ft NAVD 88 **HOLE SIZE** 8 inches
DRILLING CONTRACTOR Horizon Construction & Exploration
GROUND WATER LEVELS:
DRILLING METHOD Macro-Core (MC)/HSA
AT TIME OF DRILLING ---
LOGGED BY RLP1 **CHECKED BY** RJM7
AT END OF DRILLING ---
NOTES WL @ time of drilling < 5'.
AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	DRY UNIT WT. (pcf)
0.0		Asphalt.				
		(FILL), Dk. gray brown (10YR 4/2) gravelly f. to c. sand, tr. silt, moist.				
		(FILL), V. dk. gray (10YR 3/3) f. sand w/gravel and silt, moist.				
		(FILL), Grayish brown (10YR 5/2) f. gravelly f. to m. sand, tr. silt, moist.				
2.5		(FILL), Dk. gray (10YR 4/1) f. sand w/gravel and silt, moist.	MC 1	52		
		No recovery.				
5.0		PID composite field screen of 0.2 - 5' interval = 2.3 ppm				
		(FILL), Grayish brown (10YR 5/2) silty f. sand, wet.				
		PID = 1.8 ppm				
		(FILL), Dk. gray (10YR 4/1) f. sand w/silt and gravel, wet.				
7.5		(SP) V. dk. grayish brown (10YR 3/2) f. SAND, wet.	MC 2	48		
		No recovery.				
10.0		(SM) V. loose, v. dk. grayish brown (10YR 3/2) silty f. SAND, tr. gravel, wet.				
		Plastic bag fragment in cuttings.				
12.5		No recovery.	MC 3	50		
15.0						

▲ SPT N VALUE ▲
20 40 60 80
PL MC LL
20 40 60 80
☐ FINES CONTENT (%) ☐
20 40 60 80

Bottom of borehole at 15.0 feet.

BORING NUMBER GP-2

CLIENT Fincantieri Marinette Marine
PROJECT NAME B34-B35 Supplemental Yard Investigation
PROJECT NUMBER 19M106.20
PROJECT LOCATION Marinette, WI
DATE STARTED 9/24/20 **COMPLETED** 9/24/20
GROUND ELEVATION 588.1 ft NAVD 88 **HOLE SIZE** 2 inches
DRILLING CONTRACTOR Horizon Construction & Exploration
GROUND WATER LEVELS:
DRILLING METHOD Macro-Core (MC)
AT TIME OF DRILLING ---
LOGGED BY RLP1 **CHECKED BY** RJM7
AT END OF DRILLING ---
NOTES WL @ time of drilling > 4.5'.
AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	DRY UNIT WT. (pcf)
0		Asphalt.				
		(FILL), Dk. grayish brown (10YR 4/2) gravelly f. to m. sand, tr. silt, moist.				
		(FILL), Brown (10YR 5/3) and dk. grayish brown (10YR 4/2) gravelly f. to m. sand, tr. silt, moist.				
1						
		(FILL), Lt. y. brown (10YR 4/4) f. sand, moist. PID composite field screen of 0.2 - 2' interval = 3.8 ppm				
2		(FILL), V. dk. grayish brown (10YR 3/2) f. sand w/silt, tr. to few gravel, moist. PID = 3.0 ppm	MC 1	60		
		No recovery.				
3						
4						

Bottom of borehole at 4.5 feet.

▲ SPT N VALUE ▲
20 40 60 80
PL MC LL
20 40 60 80
☐ FINES CONTENT (%) ☐
20 40 60 80

BORING NUMBER GP-3

Foth

CLIENT Fincantieri Marinette Marine
PROJECT NAME B34-B35 Supplemental Yard Investigation
PROJECT NUMBER 19M106.20
PROJECT LOCATION Marinette, WI
DATE STARTED 9/24/20 **COMPLETED** 9/24/20
GROUND ELEVATION 587.4 ft NAVD 88 **HOLE SIZE** 8 inches
DRILLING CONTRACTOR Horizon Construction & Exploration
GROUND WATER LEVELS:
DRILLING METHOD Macro-Core (MC)/HSA
AT TIME OF DRILLING ---
LOGGED BY RLP1 **CHECKED BY** RJM7
AT END OF DRILLING ---
NOTES WL @ time of drilling approx. 4.5'.
AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	DRY UNIT WT. (pcf)
0.0		Asphalt.				
		(FILL), Brown (10YR 4/3) gravelly f. to c. sand w/silt, moist.				
		(FILL), V. dk. gray brown (10YR 3/2) f. to m. sand w/silt, tr. gravel, moist.				
		(FILL), V. dk. grayish brown (10YR 3/2) f. sand w/silt, tr. gravel, wood fragments, organic odor, moist.	MC 1	55		
2.5		No recovery.				
		PID composite field screen of 0.1 - 4' interval = 2.8 ppm				
		(FILL), V. dk. grayish brown (10YR 3/2) f. sand w/silt, tr. gravel and blackened wood (lower 1'), organic odor, moist to wet. PID = 7.1 ppm				
5.0		No recovery.	MC 2	30		
7.5						
		(SP-SM) Black (10YR 2/1) f. SAND w/silt, tr. f. gravel, petroleum product odor and sheen, wet. PID = 108 ppm				
10.0		(SP) V. dk. gray (10YR 3/1) f. to m. SAND, tr. silt, diminished to no petroleum product odor, wet. PID = 24 ppm	MC 3	54		
		No recovery.				
12.5						

Bottom of borehole at 14.0 feet.

▲ SPT N VALUE ▲
20 40 60 80
PL MC LL
20 40 60 80
☐ FINES CONTENT (%) ☐
20 40 60 80

BORING NUMBER GP-4

Foth

CLIENT Fincantieri Marinette Marine
PROJECT NAME B34-B35 Supplemental Yard Investigation
PROJECT NUMBER 19M106.20
PROJECT LOCATION Marinette, WI
DATE STARTED 9/23/20 **COMPLETED** 9/23/20
GROUND ELEVATION 587.9 ft NAVD 88 **HOLE SIZE** 8 inches
DRILLING CONTRACTOR Horizon Construction & Exploration
GROUND WATER LEVELS:
DRILLING METHOD Macro-Core (MC)/HSA
AT TIME OF DRILLING ---
LOGGED BY RLP1 **CHECKED BY** RJM7
AT END OF DRILLING ---
NOTES WL @ time of drilling approx. 5'.
AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	DRY UNIT WT. (pcf)
0.0		(FILL), Brown (10YR 5/3) f. sand w/silt and f. gravel, tr. to few c. sand, dry.				
		(FILL), V. dk. gray (10YR 3/1) silty f. sand, moist.				
		(FILL), Pale brown (10YR 6/3) and brown (10YR4/3) f. sand, dry.	MC 1	65		
2.5		No recovery.				
		PID composite field screen of 0 - 4' interval = 1.3 ppm				
		(FILL), Pale brown (10YR 6/3) f. sand, dry to wet.				
5.0		(SM) Brown (7.5YR 4/4) silty f. SAND, wet.	MC 2	70		
		(SP-SM) Dk. gray (10YR 4/1) f. SAND w/silt, wet.				
7.5		No recovery.				
		(SP-SM) Dk. gray (10YR 4/1) f. SAND, tr. silt to f. SAND w/silt, wet.				
10.0			MC 3	90		
		(SM) Dk. brown (7.5YR 3/3) silty f. SAND, wet.				
12.5		(SP-SM) Brown (10YR 5/3) f. SAND w/silt, wet.				
		(SP) F. to m. SAND, few f. gravel, wet.				
		No recovery.				

▲ SPT N VALUE ▲
20 40 60 80
PL MC LL
20 40 60 80
☐ FINES CONTENT (%) ☐
20 40 60 80

Bottom of borehole at 14.0 feet.

GEOTECH BH PLOTS - GINT STD US.GDT - 10/8/20 14:12 - C:\PW_WORKDIR\PW_IE\RLP1\D0454681\FMM YARD GEOTECH GINT STANDARD LOGS.GPJ

BORING NUMBER GP-5

CLIENT Fincantieri Marinette Marine
PROJECT NAME B34-B35 Supplemental Yard Investigation
PROJECT NUMBER 19M106.20
PROJECT LOCATION Marinette, WI
DATE STARTED 9/24/20 **COMPLETED** 9/24/20
GROUND ELEVATION 587.5 ft NAVD 88 **HOLE SIZE** 2 inches
DRILLING CONTRACTOR Horizon Construction & Exploration
GROUND WATER LEVELS:
DRILLING METHOD Macro-Core (MC)
AT TIME OF DRILLING ---
LOGGED BY RLP1 **CHECKED BY** RJM7
AT END OF DRILLING ---
NOTES WL @ time of drilling > 4'.
AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	DRY UNIT WT. (pcf)	▲ SPT N VALUE ▲ 20 40 60 80 / PL MC LL 20 40 60 80 / ☐ FINES CONTENT (%) ☐ 20 40 60 80
0		Asphalt.					
		(FILL), Brown (10YR 5/3) gravelly f. to c. sand, tr. silt, moist.					
		(FILL), Dk. grayish brown (10YR 4/2) f. sand w/silt, tr. f. gravel, moist.					
1							
		(FILL), Gravel.					
		(FILL), V. dk. grayish brown (10YR 3/2) silty f. sand, moist.					
2			MC 1	53			
		No recovery.					
3							
4		PID composite field screen of 0.2 - 4' interval = 3.0 ppm					

Bottom of borehole at 4.0 feet.

BORING NUMBER GP-6

Foth

CLIENT Fincantieri Marinette Marine
PROJECT NAME B34-B35 Supplemental Yard Investigation
PROJECT NUMBER 19M106.20
PROJECT LOCATION Marinette, WI
DATE STARTED 9/23/20 **COMPLETED** 9/23/20
GROUND ELEVATION 588.3 ft NAVD 88 **HOLE SIZE** 8 inches
DRILLING CONTRACTOR Horizon Construction & Exploration
GROUND WATER LEVELS:
DRILLING METHOD Macro-Core (MC)/HSA
AT TIME OF DRILLING ---
LOGGED BY RLP1 **CHECKED BY** RJM7
AT END OF DRILLING ---
NOTES WL @ time of drilling < 5'.
AFTER DRILLING ---

DEPTH (ft)	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	DRY UNIT WT. (pcf)
0.0	Asphalt.				
	(FILL), Dk. y. brown (10YR 4/4) gravelly f. to m. sand, moist.				
	(FILL), Dark gray (10YR 4/1) and black (10YR 2/1) f. to m. sand w/gravel, tr. organics in lower 0.2', drywall fragment, yellowish speckling near bottom, moist.				
	(FILL), Brown wood chunk in tip, sl. weathered, moist.				
2.5	No recovery.	MC 1	36		
5.0	PID composite field screen of 0.2 - 5' interval = 3.6 ppm				
	(FILL), V. dk. gray (10YR 3/1) f. to m. sand w/gravel and silt, wet. Fiberboard piece in HSA cuttings.				
	(ML) Black (10YR 2/1) f. sandy SILT, few organics, moist.				
7.5	No recovery.	MC 2	32		
10.0	(SM) V. loose, v. dk. gray (10YR 3/1) silty f. SAND, organics, wet.				
	(ML) Soft, v. dk. gray (10YR 3/1) SILT, tr. f. sand, moist.				
	(SP-SM) V. dk. grayish brown (10YR 3/2) f. SAND w/silt, wet.				
12.5	No recovery.	MC 3	50		
15.0					

▲ SPT N VALUE ▲
20 40 60 80
PL MC LL
20 40 60 80
☐ FINES CONTENT (%) ☐
20 40 60 80

Bottom of borehole at 15.0 feet.

BORING NUMBER GP-7

CLIENT Fincantieri Marinette Marine
PROJECT NAME B34-B35 Supplemental Yard Investigation
PROJECT NUMBER 19M106.20
PROJECT LOCATION Marinette, WI
DATE STARTED 9/24/20 **COMPLETED** 9/24/20
GROUND ELEVATION 588.6 ft NAVD 88 **HOLE SIZE** 2 inches
DRILLING CONTRACTOR Horizon Construction & Exploration
GROUND WATER LEVELS:
DRILLING METHOD Macro-Core (MC)
AT TIME OF DRILLING ---
LOGGED BY RLP1 **CHECKED BY** RJM7
AT END OF DRILLING ---
NOTES WL @ time of drilling > 5'.
AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	DRY UNIT WT. (pcf)	▲ SPT N VALUE ▲ 20 40 60 80 / PL MC LL 20 40 60 80 / ☐ FINES CONTENT (%) ☐ 20 40 60 80
0		Asphalt.					
		(FILL), Grayish brown (10YR 5/2) gravelly f. to m. sand, tr. silt, moist.					
1		(FILL), Dk. grayish brown (10YR 4/2) f. sand, tr. f. gravel, dry.					
		(FILL), Grayish brown (10YR 5/2) silty f. sand, tr. gravel, moist.					
2		(FILL), Grayish brown (10YR 5/2) f. sand, moist.					
		(FILL), V. dk. grayish brown (10YR 3/2) f. sand w/silt, moist.	MC 1	56			
3		No recovery.					
4							
5		PID composite field screen of 0.3 - 5' interval = 3.2 ppm					

Bottom of borehole at 5.0 feet.

BORING NUMBER GP-8

Foth

CLIENT Fincantieri Marinette Marine
PROJECT NAME B34-B35 Supplemental Yard Investigation
PROJECT NUMBER 19M106.20
PROJECT LOCATION Marinette, WI
DATE STARTED 9/24/20 **COMPLETED** 9/24/20
GROUND ELEVATION 589.9 ft NAVD 88 **HOLE SIZE** 2 inches
DRILLING CONTRACTOR Horizon Construction & Exploration
GROUND WATER LEVELS:
DRILLING METHOD Macro-Core (MC)
AT TIME OF DRILLING ---
LOGGED BY RLP1 **CHECKED BY** RJM7
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	DRY UNIT WT. (pcf)
0.0		Asphalt.				
		(FILL), Dk. brown (10YR 3/3) gravelly f. to m. sand, tr. silt, moist.				
		(FILL), V. dk. gray (10YR 3/1) f. sand w/silt to silty f. sand, few f. gravel,dry.				
		(FILL), Pale brown (10YR 6/3) f. sand w/silt, dry.				
2.5		(FILL), Gray (10YR 6/1) f. sandy silt, tr. f. gravel, moist.				
		(FILL), V. dk. grayish brown (10YR 3/2) silty f. sand, cinder brick and metal fragments, moist.				
		No recovery.	MC 1	46		
5.0		PID composite field screen of 0.3 -6.5' interval = 4.0 ppm				

Bottom of borehole at 6.5 feet.

▲ SPT N VALUE ▲
20 40 60 80
PL MC LL
20 40 60 80
☐ FINES CONTENT (%) ☐
20 40 60 80

BORING NUMBER GP-9

CLIENT Fincantieri Marinette Marine
PROJECT NAME B34-B35 Supplemental Yard Investigation
PROJECT NUMBER 19M106.20
PROJECT LOCATION Marinette, WI
DATE STARTED 9/24/20 **COMPLETED** 9/24/20
GROUND ELEVATION 587.5 ft NAVD 88 **HOLE SIZE** 2 inches
DRILLING CONTRACTOR Horizon Construction & Exploration
GROUND WATER LEVELS:
DRILLING METHOD Macro-Core (MC)
AT TIME OF DRILLING ---
LOGGED BY RLP1 **CHECKED BY** RJM7
AT END OF DRILLING ---
NOTES WL @ time of drilling > 4'.
AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	DRY UNIT WT. (pcf)	▲ SPT N VALUE ▲ 20 40 60 80 / PL MC LL 20 40 60 80 / ☐ FINES CONTENT (%) ☐ 20 40 60 80
0		Asphalt.					
		(FILL), Y. brown (10YR 5/4) gravelly f. to m. sand, tr. silt, moist.					
		(FILL), Dk. grayish brown (10YR 4/2) f. sand w/silt, tr. f. gravel, moist.					
1		(FILL), Lt. brownish gray (10YR 6/2) gravelly f. sand, tr. silt, dry.					
		(FILL), Brown (7.5YR 5/3) f. sand, dry.					
2		(FILL), Blackened wood layer (0.5") over v. dk. grayish brown (10YR 3/2) f. sand, tr. silt moist.	MC 1	58			
		No recovery.					
3							
4		PID composite field screen of 0.2 - 4' interval = 2.6 ppm					

Bottom of borehole at 4.0 feet.

BORING NUMBER GP-10

Foth

CLIENT Fincantieri Marinette Marine
PROJECT NAME B34-B35 Supplemental Yard Investigation
PROJECT NUMBER 19M106.20
PROJECT LOCATION Marinette, WI
DATE STARTED 9/23/20 **COMPLETED** 9/23/20
GROUND ELEVATION 587.4 ft NAVD 88 **HOLE SIZE** 2 inches
DRILLING CONTRACTOR Horizon Construction & Exploration
GROUND WATER LEVELS:
DRILLING METHOD Macro-Core (MC)
AT TIME OF DRILLING ---
LOGGED BY RLP1 **CHECKED BY** RJM7
AT END OF DRILLING ---
NOTES WL @ time of drilling > 4'.
AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	DRY UNIT WT. (pcf)
0		Asphalt.				
		(FILL), Dk. gray (10YR 4/1) gravelly f. to c. sand w/silt, moist.				
1		(FILL), Dk. grayish brown (10YR 4/2) silty f. sand, tr. f. gravel, moist.				
2		(FILL), V. dk. gray (10YR 3/1) f. to m. sand w/silt, tr. gravel, moist.	MC 1	58		
		No recovery.				
3						
4		PID composite field screen of 0.3 - 4' interval = 1.9 ppm				

Bottom of borehole at 4.0 feet.

▲ SPT N VALUE ▲
20 40 60 80
PL MC LL
20 40 60 80
☐ FINES CONTENT (%) ☐
20 40 60 80

BORING NUMBER GP-11

CLIENT Fincantieri Marinette Marine
PROJECT NAME B34-B35 Supplemental Yard Investigation
PROJECT NUMBER 19M106.20
PROJECT LOCATION Marinette, WI
DATE STARTED 9/23/20 **COMPLETED** 9/23/20
GROUND ELEVATION 588.2 ft NAVD 88 **HOLE SIZE** 2 inches
DRILLING CONTRACTOR Horizon Construction & Exploration
GROUND WATER LEVELS:
DRILLING METHOD Macro-Core (MC)
AT TIME OF DRILLING ---
LOGGED BY RLP1 **CHECKED BY** RJM7
AT END OF DRILLING ---
NOTES WL @ time of drilling approx. 4.5'.
AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	DRY UNIT WT. (pcf)	▲ SPT N VALUE ▲ 20 40 60 80 / PL MC LL 20 40 60 80 / ☐ FINES CONTENT (%) ☐ 20 40 60 80
0		Asphalt.					
		(FILL), Brown gravelly f. to m. sand w/silt, moist.					
1		(FILL), Gray gravelly f. sand, tr. silt, moist.					
		(FILL), V. dk. gray (10YR 3/1) silty f. sand, tr. f. gravel, moist.					
2		(FILL), V. dk. gray to black, f. to m. sand, tr. silt and gravel, metal fragment, moist to wet.	MC 1	53			
		No recovery.					
3							
4		PID composite field screen of 0.3 - 4.5' interval = 1.4 ppm					

Bottom of borehole at 4.5 feet.

BORING NUMBER GP-12

Foth

CLIENT Fincantieri Marinette Marine
PROJECT NAME B34-B35 Supplemental Yard Investigation
PROJECT NUMBER 19M106.20
PROJECT LOCATION Marinette, WI
DATE STARTED 9/24/20 **COMPLETED** 9/24/20
GROUND ELEVATION 590.8 ft NAVD 88 **HOLE SIZE** 2 inches
DRILLING CONTRACTOR Horizon Construction & Exploration
GROUND WATER LEVELS:
DRILLING METHOD Macro-Core (MC)
AT TIME OF DRILLING ---
LOGGED BY RLP1 **CHECKED BY** RJM7
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	DRY UNIT WT. (pcf)
0.0		Asphalt.				
		(FILL), Brown (10YR 5/3) gravelly f. to c. sand w/silt, moist.				
		(FILL), Dk. grayish brown (10YR 4/2) f. sand w/gravel and silt, dry.				
		(FILL), Brown (7.5YR 5/4) f. sand, dry.				
		(FILL), Dk. grayish brown (10YR 4/2) f. sand w/gravel and silt, dry.				
2.5		No recovery.	MC 1	54		
5.0		PID composite field screen of 0.2 - 5' interval = 0.8 ppm				
		(FILL), V. dk. gray (10YR 3/1) silty f. sand, moist. Sandy gravel layer (0.1 to 0.2' thick).				
		(FILL), V. dk. grayish brown and black silty f. sand, tr. f. gravel, organics, moist.	2	72		
		No recovery.				
7.5		PID composite field screen of 5 - 7.5' interval = 2.9 ppm				

Bottom of borehole at 7.5 feet.

▲ SPT N VALUE ▲
20 40 60 80
PL MC LL
20 40 60 80
☐ FINES CONTENT (%) ☐
20 40 60 80

BORING NUMBER GP-13

CLIENT Fincantieri Marinette Marine
PROJECT NAME B34-B35 Supplemental Yard Investigation
PROJECT NUMBER 19M106.20
PROJECT LOCATION Marinette, WI
DATE STARTED 9/24/20 **COMPLETED** 9/24/20
GROUND ELEVATION 587.4 ft NAVD 88 **HOLE SIZE** 2 inches
DRILLING CONTRACTOR Horizon Construction & Exploration
GROUND WATER LEVELS:
DRILLING METHOD Macro-Core (MC)
AT TIME OF DRILLING ---
LOGGED BY RLP1 **CHECKED BY** RJM7
AT END OF DRILLING ---
NOTES WL @ time of drilling approx. 4'.
AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	DRY UNIT WT. (pcf)
0		Asphalt.				
		(FILL), Grayish brown (10YR 5/2) gravelly f. sand w/silt, dry.				
1						
		(FILL), Black (10YR 2/1 and v. dk. brown (10YR 2/2) silty f. sand, tr. f. gravel, tr. organics, glass chips and plastic, moist to wet.				
2		No recovery.	MC 1	50		
3						
4		PID composite field screen of 0.2 - 4' interval = 4.2 ppm				

▲ SPT N VALUE ▲
20 40 60 80
PL MC LL
20 40 60 80
☐ FINES CONTENT (%) ☐
20 40 60 80

Bottom of borehole at 4.0 feet.

Attachment 2

Monitoring Well Construction Forms

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name FMM B34/B35 Supplemental Yard Inv	Local Grid Location of Well ________ft. ☐ N. ☐ S. ________ft. ☐ E. ☐ W.	Well Name GP-1W
Facility License, Permit or Monitoring No. Not Applicable	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ___° ___' ___" Long. ___° ___' ___" or	Wis. Unique Well No. / DNR Well Number
Facility ID	St. Plane 469,367 ft. N, 2,582,759 ft. E. S /Ⓒ/ N	Date Well Installed 09/23/2020
Type of Well Well Code 11/mw	Section Location of Waste/Source ____1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐ E ☐ W	Well Installed By: (Person's Name and Firm) Greg Wester Horizon Construction
Distance from Waste/Source ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known Gov. Lot Number	

A. Protective pipe, top elevation 588.80 ft. MSL

B. Well casing, top elevation 588.51 ft. MSL

C. Land surface elevation 588.8 ft. MSL

D. Surface seal, bottom 587.9 ft. MSL or 0.9 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☒
SM ☒ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☒ 4 1
Other ☐

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ____________

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 587.9 ft. MSL or 0.9 ft.

F. Fine sand, top ____ ft. MSL or ____ ft.

G. Filter pack, top 585.9 ft. MSL or 2.9 ft.

H. Screen joint, top 585.4 ft. MSL or 3.4 ft.

I. Well bottom 575.1 ft. MSL or 13.7 ft.

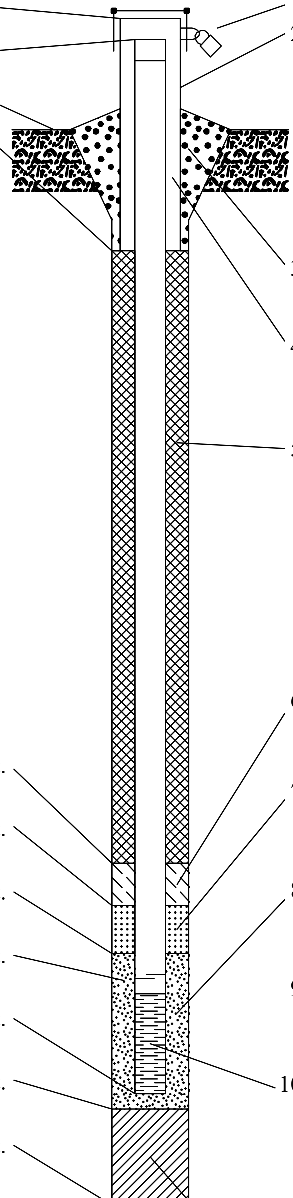
J. Filter pack, bottom 575.1 ft. MSL or 13.7 ft.

K. Borehole, bottom 575.1 ft. MSL or 13.7 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: 8.0 in.
   b. Length: 1.0 ft.
   c. Material: Steel ☒ 0 4
   Other ☐
   d. Additional protection? ☐ Yes ☒ No
   If yes, describe: ____________
3. Surface seal: Bentonite ☐ 3 0
   Concrete ☒ 0 1
   Other ☐
4. Material between well casing and protective pipe:
   Bentonite ☒ 3 0
   Other ☐
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
   b. ____Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
   c. ____Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
   d. ____% Bentonite . . . Bentonite-cement grout ☐ 5 0
   e. ____Ft^3 volume added for any of the above
   f. How installed: Tremie ☐ 0 1
   Tremie pumped ☐ 0 2
   Gravity ☐ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
   b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
   c. ____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
   a. ____
   b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
   a. Red Flint #40
   b. Volume added 1.5 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
   Flush threaded PVC schedule 80 ☐ 2 4
   Other ☐
10. Screen material: PVC
   a. Screen Type: Factory cut ☒ 1 1
   Continuous slot ☐ 0 1
   Other ☐
   b. Manufacturer Johnson
   c. Slot size: 0.010 in.
   d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 1 4
   Other ☒

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
[signature]	Foth Infrastructure & Environment, LLC Tel: 920-497-2500 2121 Innovation Court, Suite 300, P.O. Box 5126 De Pere, WI 54115.5126 Fax:

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: FMM B34/B35 Supplemental Yard Inv	Local Grid Location of Well: ____ft. ☐ N. ☐ S. ____ft. ☐ E. ☐ W.	Well Name: GP-3W
Facility License, Permit or Monitoring No.: Not Applicable	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID	St. Plane 469,642 ft. N, 2,582,954 ft. E. S /Ⓒ/ N	Date Well Installed: 09/24/2020
Type of Well: Well Code 11/mw	Section Location of Waste/Source: ____1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐ E ☐ W	Well Installed By: (Person's Name and Firm): Greg Wester / Horizon Construction
Distance from Waste/Source ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation 587.40 ft. MSL
B. Well casing, top elevation 586.89 ft. MSL
C. Land surface elevation 587.4 ft. MSL
D. Surface seal, bottom 586.5 ft. MSL or 0.9 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☒
SM ☒ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

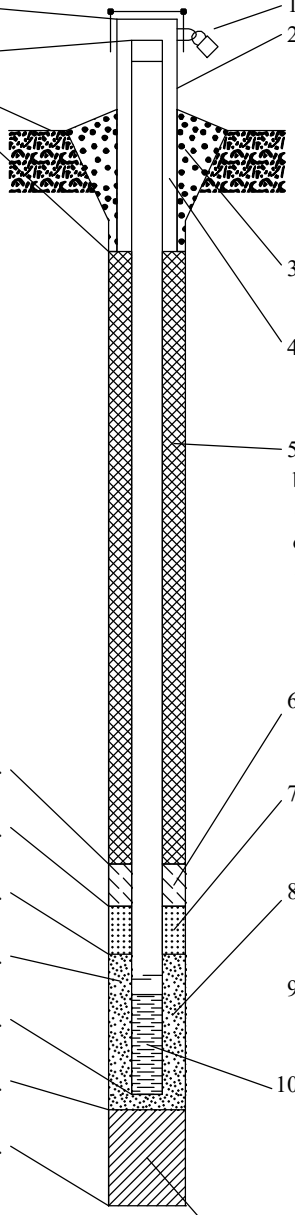
14. Drilling method used: Rotary ☐ 5 0 / Hollow Stem Auger ☒ 4 1 / Other ☐

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1 Drilling Mud ☐ 0 3 None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 586.5 ft. MSL or 0.9 ft.
F. Fine sand, top ____ ft. MSL or ____ ft.
G. Filter pack, top 584.7 ft. MSL or 2.7 ft.
H. Screen joint, top 584.0 ft. MSL or 3.4 ft.
I. Well bottom 573.7 ft. MSL or 13.7 ft.
J. Filter pack, bottom 573.7 ft. MSL or 13.7 ft.
K. Borehole, bottom 573.7 ft. MSL or 13.7 ft.
L. Borehole, diameter 8.0 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8.0 in.
b. Length: 1.0 ft.
c. Material: Steel ☒ 0 4 / Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☐ 3 0 / Concrete ☒ 0 1 / Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 3 0 / Other ☐
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. ____Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. ____% Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1 / Tremie pumped ☐ 0 2 / Gravity ☐ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. ____
b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40
b. Volume added 1.5 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3 / Flush threaded PVC schedule 80 ☐ 2 4 / Other ☐
10. Screen material: PVC
a. Screen Type: Factory cut ☒ 1 1 / Continuous slot ☐ 0 1 / Other ☐
b. Manufacturer Johnson
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 1 4 / Other ☒

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Robert J Pearson

Firm: Foth Infrastructure & Environment, LLC
2121 Innovation Court, Suite 300, P.O. Box 5126 De Pere, WI 54115.5126
Tel: 920-497-2500 Fax:

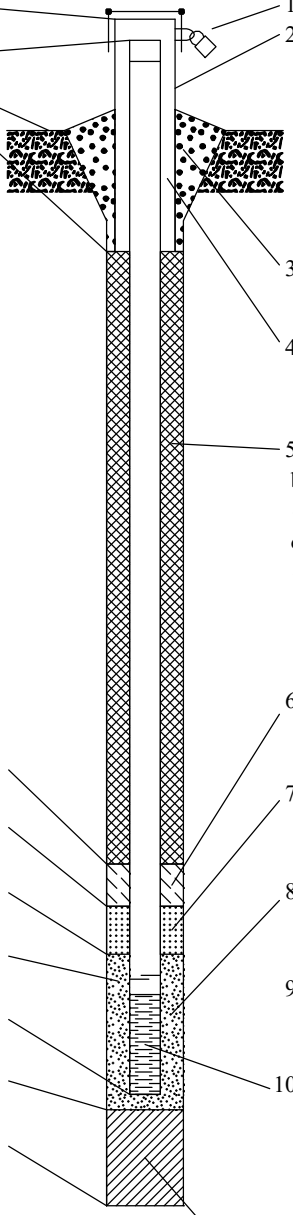
Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: FMM B34/B35 Supplemental Yard Inv	Local Grid Location of Well: ____ft. ☐ N. ☐ S. ____ft. ☐ E. ☐ W.	Well Name: GP-4W
Facility License, Permit or Monitoring No.: Not Applicable	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID	St. Plane 469,890 ft. N, 2,583,131 ft. E. S /Ⓒ/ N	Date Well Installed: 09/23/2020
Type of Well: Well Code 11/mw	Section Location of Waste/Source: ____1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐ E ☐ W	Well Installed By: (Person's Name and Firm): Greg Wester / Horizon Construction
Distance from Waste/Source ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number



A. Protective pipe, top elevation 587.90 ft. MSL
B. Well casing, top elevation 587.63 ft. MSL
C. Land surface elevation 587.9 ft. MSL
D. Surface seal, bottom 587.0 ft. MSL or 0.9 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☒
SM ☒ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 5 0 / Hollow Stem Auger ☒ 4 1 / Other ☐

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1 Drilling Mud ☐ 0 3 None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 587.0 ft. MSL or 0.9 ft.
F. Fine sand, top ____ ft. MSL or ____ ft.
G. Filter pack, top 585.3 ft. MSL or 2.6 ft.
H. Screen joint, top 584.8 ft. MSL or 3.1 ft.
I. Well bottom 574.5 ft. MSL or 13.4 ft.
J. Filter pack, bottom 574.4 ft. MSL or 13.5 ft.
K. Borehole, bottom 574.4 ft. MSL or 13.5 ft.
L. Borehole, diameter 8.0 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.00 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8.0 in.
b. Length: 1.0 ft.
c. Material: Steel ☒ 0 4 / Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☐ 3 0 / Concrete ☒ 0 1 / Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 3 0 / Other ☐
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. ____Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. ____% Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1 / Tremie pumped ☐ 0 2 / Gravity ☐ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. ____
b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40
b. Volume added 1.75 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3 / Flush threaded PVC schedule 80 ☐ 2 4 / Other ☐
10. Screen material: PVC
a. Screen Type: Factory cut ☒ 1 1 / Continuous slot ☐ 0 1 / Other ☐
b. Manufacturer Johnson
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 1 4 / Other ☒

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Robert J Pearson

Firm: Foth Infrastructure & Environment, LLC
2121 Innovation Court, Suite 300, P.O. Box 5126 De Pere, WI 54115.5126
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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	County	Well Name
FMM B34/B35 Supplemental Yard Inv	Marinette	GP-1W

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
Not Applicable	38		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:

surged with bailer and bailed	☒	4 1
surged with bailer and pumped	☐	6 1
surged with block and bailed	☐	4 2
surged with block and pumped	☐	6 2
surged with block, bailed, and pumped	☐	7 0
compressed air	☐	2 0
bailed only	☐	1 0
pumped only	☐	5 1
pumped slowly	☐	5 0
other _____	☐	

3. Time spent developing well 175 min.

4. Depth of well (from top of well casing) 13.4 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 7.4 gal.

7. Volume of water removed from well 50.0 gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	3.53 ft.	6.50 ft.
Date	b.	9/24/2020	9/25/2020
Time	c.	☐ a.m. 02:35 ☒ p.m.	☒ a.m. 11:10 ☐ p.m.
12. Sediment in well bottom		inches	inches
13. Water clarity		Clear ☐ 1 0 Turbid ☒ 1 5 (Describe) V dk gray to black, silty	Clear ☒ 2 0 Turbid ☐ 2 5 (Describe) Lt gray, cloudy

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Rick Panosh
Foth Infrastructure & Environment, LLC

17. Additional comments on development:
9/24/2020: Bailed down multiple times over 135 minutes, approx 35 gals out
9/25/2020: Resumed bailing, initial water level 3.74', 40 minutes, approx 15 gallons out.

Facility Address or Owner/Responsible Party Address

Name: Warren Netzow

Firm: Fincantieri Marinette Marine

Street: 1600 Ely Street

City/State/Zip: Marinette, WI 54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Robert F Pan

Print Name: Rick Panosh

Firm: Foth Infrastructure & Environment, LLC

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	County	Well Name
FMM B34/B35 Supplemental Yard Inv	Marinette	GP-3W

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
Not Applicable	38		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☒	4 1
surged with bailer and pumped	☐	6 1
surged with block and bailed	☐	4 2
surged with block and pumped	☐	6 2
surged with block, bailed, and pumped	☐	7 0
compressed air	☐	2 0
bailed only	☐	1 0
pumped only	☐	5 1
pumped slowly	☐	5 0
other _____	☐	

3. Time spent developing well: 170 min.

4. Depth of well (from top of well casing): 13.1 ft.

5. Inside diameter of well: 2.00 in.

6. Volume of water in filter pack and well casing: 6.7 gal.

7. Volume of water removed from well: 55.0 gal.

8. Volume of water added (if any): gal.

9. Source of water added: _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	4.28 ft.	4.48 ft.
Date	b.	9/25/2020	9/25/2020
Time	c.	08:10 ☒ a.m. ☐ p.m.	11:00 ☒ a.m. ☐ p.m.
12. Sediment in well bottom		inches	inches
13. Water clarity		Clear ☐ 1 0 Turbid ☒ 1 5 (Describe): V dk gray to black, silty, faint petroleum odor, slight sheen	Clear ☐ 2 0 Turbid ☒ 2 5 (Describe): Sl turbid, gray

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Bob Meller
Foth Infrastructure & Environment, LLC

17. Additional comments on development:
Bailed over 170 min period.

Faint petroleum odor and sheen on discharged water.

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: Fincantieri Marinette Marine

Street: 1600 Ely Street

City/State/Zip: Marinette, WI 54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Robert J Panosh

Print Name: Rick Panosh

Firm: Foth Infrastructure & Environment, LLC

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	County	Well Name
FMM B34/B35 Supplemental Yard Inv	Marinette	GP-4W

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
Not Applicable	38		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☒	4 1
surged with bailer and pumped	☐	6 1
surged with block and bailed	☐	4 2
surged with block and pumped	☐	6 2
surged with block, bailed, and pumped	☐	7 0
compressed air	☐	2 0
bailed only	☐	1 0
pumped only	☐	5 1
pumped slowly	☐	5 0
other _____	☐	

3. Time spent developing well: 140 min.

4. Depth of well (from top of well casing): 13.0 ft.

5. Inside diameter of well: 2.00 in.

6. Volume of water in filter pack and well casing: 5.6 gal.

7. Volume of water removed from well: 50.0 gal.

8. Volume of water added (if any): gal.

9. Source of water added: _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	5.62 ft.	5.72 ft.
Date	b.	9/24/2020	9/25/2020
Time	c.	☐ a.m. 02:45 ☒ p.m.	☒ a.m. 09:05 ☐ p.m.
12. Sediment in well bottom		inches	inches
13. Water clarity		Clear ☐ 1 0 Turbid ☒ 1 5 (Describe) Dk gray-brown, silty	Clear ☒ 2 0 Turbid ☐ 2 5 (Describe) Sl cloudy

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Rick Panosh
Foth Infrastructure & Environment, LLC

17. Additional comments on development:
9/24/2020: Bailed over 120 min period, approx 40 gallons out.
9/25/2020: Resumed bailing, initial water level = 5.67, 20 min, approx 10 gallons out.

Facility Address or Owner/Responsible Party Address

Name: Warren Netzow
Firm: Fincantieri Marinette Marine
Street: 1600 Ely Street
City/State/Zip: Marinette, WI 54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Robert J Panosh
Print Name: Rick Panosh
Firm: Foth Infrastructure & Environment, LLC

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	County	Well Name
FMM B34/B35 Supplemental Yard Inv	Marinette	GP-6W

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
Not Applicable	38		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☒	4 1
surged with bailer and pumped	☐	6 1
surged with block and bailed	☐	4 2
surged with block and pumped	☐	6 2
surged with block, bailed, and pumped	☐	7 0
compressed air	☐	2 0
bailed only	☐	1 0
pumped only	☐	5 1
pumped slowly	☐	5 0
other _____	☐	

3. Time spent developing well 115 min.

4. Depth of well (from top of well casing) 13.2 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 6.1 gal.

7. Volume of water removed from well 50.0 gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	5.25 ft.	5.80 ft.
Date	b.	9/24/2020	9/25/2020
Time	c.	☐ a.m. 03:05 ☒ p.m.	☒ a.m. 10:10 ☐ p.m.
12. Sediment in well bottom		inches	inches
13. Water clarity		Clear ☐ 1 0 Turbid ☒ 1 5	Clear ☒ 2 0 Turbid ☐ 2 5
		(Describe) V dk gray to black, silty	(Describe) Cloudy, gray-brown

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Rick Panosh
Foth Infrastructure & Environment, LLC

17. Additional comments on development:
9/24/2020: Bailed over 90 min period, approx 35 gallons out.
9/25/2020: Resumed bailing, initial water level = 5.65', 25 min, approx 15 gallons out.

Facility Address or Owner/Responsible Party Address

Name: Warren Netzow
Firm: Fincantieri Marinette Marine
Street: 1600 Ely Street
City/State/Zip: Marinette, WI 54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Robert J Panosh
Print Name: Rick Panosh
Firm: Foth Infrastructure & Environment, LLC

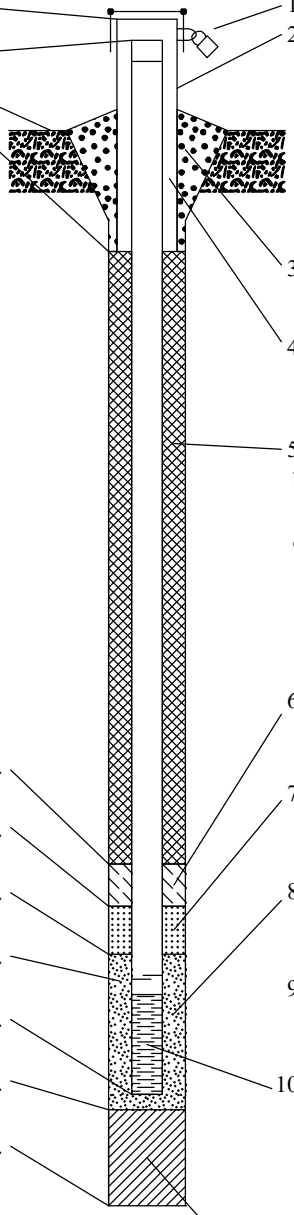
NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: FMM B34/B35 Supplemental Yard Inv	Local Grid Location of Well: ____ft. ☐ N. ☐ S. ____ft. ☐ E. ☐ W.	Well Name: GP-6W
Facility License, Permit or Monitoring No.: Not Applicable	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID	St. Plane 469,892 ft. N, 2,582,873 ft. E. S /Ⓒ/ N	Date Well Installed: 09/23/2020
Type of Well: Well Code 11/mw	Section Location of Waste/Source: ____1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐ E ☐ W	Well Installed By: (Person's Name and Firm): Greg Wester / Horizon Construction
Distance from Waste/Source ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number



A. Protective pipe, top elevation 588.30 ft. MSL
B. Well casing, top elevation 587.90 ft. MSL
C. Land surface elevation 588.3 ft. MSL
D. Surface seal, bottom 587.4 ft. MSL or 0.9 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☒
SM ☒ SC ☐ ML ☒ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 5 0 / Hollow Stem Auger ☒ 4 1 / Other ☐

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1 Drilling Mud ☐ 0 3 None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No
Describe

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 587.4 ft. MSL or 0.9 ft.
F. Fine sand, top ____ ft. MSL or ____ ft.
G. Filter pack, top 585.5 ft. MSL or 2.8 ft.
H. Screen joint, top 585.0 ft. MSL or 3.3 ft.
I. Well bottom 574.7 ft. MSL or 13.6 ft.
J. Filter pack, bottom 574.7 ft. MSL or 13.6 ft.
K. Borehole, bottom 574.7 ft. MSL or 13.6 ft.
L. Borehole, diameter 8.0 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.00 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8.0 in.
b. Length: 1.0 ft.
c. Material: Steel ☒ 0 4 / Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe:
3. Surface seal: Bentonite ☐ 3 0 / Concrete ☒ 0 1 / Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 3 0 / Other ☐
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. ____Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. ____% Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1 / Tremie pumped ☐ 0 2 / Gravity ☐ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. ____
b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40
b. Volume added 2 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3 / Flush threaded PVC schedule 80 ☐ 2 4 / Other ☐
10. Screen material: PVC
a. Screen Type: Factory cut ☒ 1 1 / Continuous slot ☐ 0 1 / Other ☐
b. Manufacturer Johnson
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 1 4 / Other ☒

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Robert J. Pearson

Firm: Foth Infrastructure & Environment, LLC
2121 Innovation Court, Suite 300, P.O. Box 5126 De Pere, WI 54115.5126
Tel: 920-497-2500 Fax:

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Attachment 3

Soil Analytical Reports (Pace Analytical Services)

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

October 12, 2020

DENIS ROZNOWSKI
Foth Infrastructure & Environment, LLC
2121 Innovation Court
De Pere, WI 54115

RE: Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Dear DENIS ROZNOWSKI:

Enclosed are the analytical results for sample(s) received by the laboratory on September 25, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay
- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer
tod.noltemeyer@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Steve Lehrke, Foth Infrastructure & Environment
RICK PANOSH, Foth Infrastructure & Environment, LLC

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Pace Analytical Services - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40215420001	**GP-1, 0.2-5.5'**	Solid	09/23/20 13:10	09/25/20 15:12
40215420002	**GP-4, 0.0-4.0'**	Solid	09/23/20 15:15	09/25/20 15:12
40215420003	**GP-6, 0.2-5.0'**	Solid	09/23/20 17:02	09/25/20 15:12
40215420004	**GP-10, 0.3-4.0'**	Solid	09/23/20 12:05	09/25/20 15:12
40215420005	**GP-11, 0.3-4.5'**	Solid	09/23/20 11:14	09/25/20 15:12
40215420006	**GP-3, 0.1-4.0'**	Solid	09/24/20 08:36	09/25/20 15:12
40215420007	**GP-2, 0.2-4.5' UPPER**	Solid	09/24/20 10:40	09/25/20 15:12
40215420008	**GP-2, 0.2-4.5' LOWER**	Solid	09/24/20 10:40	09/25/20 15:12
40215420009	**GP-8, 0.3-6.5'**	Solid	09/24/20 10:55	09/25/20 15:12
40215420010	**GP-7, 0.3-5.0'**	Solid	09/24/20 11:08	09/25/20 15:12
40215420011	**GP-9, 0.2-4.0'**	Solid	09/24/20 11:43	09/25/20 15:12
40215420012	**GP-12, 0.2-5.0'**	Solid	09/24/20 12:15	09/25/20 15:12
40215420013	**GP-12, 5.0-7.5'**	Solid	09/24/20 12:20	09/25/20 15:12
40215420014	**GP-13, 0.2-4.0'**	Solid	09/24/20 12:25	09/25/20 15:12
40215420015	**GP-5, 0.2-4.0'**	Solid	09/24/20 12:45	09/25/20 15:12
40215420016	**MEOH BLANK**	Solid	09/23/20 00:00	09/25/20 15:12

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40215420001	**GP-1, 0.2-5.5'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420002	**GP-4, 0.0-4.0'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420003	**GP-6, 0.2-5.0'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420004	**GP-10, 0.3-4.0'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420005	**GP-11, 0.3-4.5'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420006	**GP-3, 0.1-4.0'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420007	**GP-2, 0.2-4.5' UPPER**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420008	**GP-2, 0.2-4.5' LOWER**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420009	**GP-8, 0.3-6.5'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420010	**GP-7, 0.3-5.0'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420011	**GP-9, 0.2-4.0'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420012	**GP-12, 0.2-5.0'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420013	**GP-12, 5.0-7.5'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420014	**GP-13, 0.2-4.0'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420015	**GP-5, 0.2-4.0'**	EPA 8081B	AMV	24	PASI-M
		EPA 8082A	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40215420016	**MEOH BLANK**	EPA 8260	SMT	64	PASI-G

PASI-G = Pace Analytical Services - Green Bay
PASI-M = Pace Analytical Services - Minneapolis

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PROJECT NARRATIVE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Method: **EPA 8081B**
Description: 8081B GCS Pesticides
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 12, 2020

General Information:
15 samples were analyzed for EPA 8081B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 701891

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- GP-11, 0.3-4.5' (Lab ID: 40215420005)
  - Decachlorobiphenyl (S)
- GP-2, 0.2-4.5' LOWER (Lab ID: 40215420008)
  - Decachlorobiphenyl (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 701891

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Method: **EPA 8081B**
Description: 8081B GCS Pesticides
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 12, 2020

Analyte Comments:

QC Batch: 701891

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GP-1, 0.2-5.5' (Lab ID: 40215420001)
  - Tetrachloro-m-xylene (S)
- GP-10, 0.3-4.0' (Lab ID: 40215420004)
  - Tetrachloro-m-xylene (S)
- GP-11, 0.3-4.5' (Lab ID: 40215420005)
  - Tetrachloro-m-xylene (S)
- GP-12, 0.2-5.0' (Lab ID: 40215420012)
  - Tetrachloro-m-xylene (S)
- GP-12, 5.0-7.5' (Lab ID: 40215420013)
  - Tetrachloro-m-xylene (S)
- GP-13, 0.2-4.0' (Lab ID: 40215420014)
  - Tetrachloro-m-xylene (S)
- GP-2, 0.2-4.5' LOWER (Lab ID: 40215420008)
  - Tetrachloro-m-xylene (S)
- GP-2, 0.2-4.5' UPPER (Lab ID: 40215420007)
  - Tetrachloro-m-xylene (S)
- GP-3, 0.1-4.0' (Lab ID: 40215420006)
  - Tetrachloro-m-xylene (S)
- GP-4, 0.0-4.0' (Lab ID: 40215420002)
  - Tetrachloro-m-xylene (S)
- GP-5, 0.2-4.0' (Lab ID: 40215420015)
  - Tetrachloro-m-xylene (S)
- GP-6, 0.2-5.0' (Lab ID: 40215420003)
  - Tetrachloro-m-xylene (S)
- GP-7, 0.3-5.0' (Lab ID: 40215420010)
  - Tetrachloro-m-xylene (S)
- GP-8, 0.3-6.5' (Lab ID: 40215420009)
  - Tetrachloro-m-xylene (S)
- GP-9, 0.2-4.0' (Lab ID: 40215420011)
  - Tetrachloro-m-xylene (S)

- GP-12, 0.2-5.0' (Lab ID: 40215420012)
  - Tetrachloro-m-xylene (S)
- GP-2, 0.2-4.5' UPPER (Lab ID: 40215420007)
  - Tetrachloro-m-xylene (S)
- GP-4, 0.0-4.0' (Lab ID: 40215420002)
  - Tetrachloro-m-xylene (S)
- GP-5, 0.2-4.0' (Lab ID: 40215420015)
  - Tetrachloro-m-xylene (S)

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PROJECT NARRATIVE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Method: **EPA 8082A**
Description: 8082A GCS PCB
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 12, 2020

General Information:
15 samples were analyzed for EPA 8082A by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3541 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 12, 2020

General Information:
15 samples were analyzed for EPA 6020 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 366768

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GP-1, 0.2-5.5' (Lab ID: 40215420001)
  - Silver
  - Cadmium
- GP-10, 0.3-4.0' (Lab ID: 40215420004)
  - Silver
  - Cadmium
  - Selenium
- GP-11, 0.3-4.5' (Lab ID: 40215420005)
  - Silver
  - Cadmium

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PROJECT NARRATIVE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 12, 2020

Analyte Comments:

QC Batch: 366768

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GP-11, 0.3-4.5' (Lab ID: 40215420005)
  - Selenium
- GP-12, 0.2-5.0' (Lab ID: 40215420012)
  - Silver
  - Cadmium
  - Selenium
- GP-12, 5.0-7.5' (Lab ID: 40215420013)
  - Silver
  - Cadmium
  - Selenium
- GP-13, 0.2-4.0' (Lab ID: 40215420014)
  - Silver
- GP-2, 0.2-4.5' LOWER (Lab ID: 40215420008)
  - Silver
  - Cadmium
- GP-2, 0.2-4.5' UPPER (Lab ID: 40215420007)
  - Silver
  - Cadmium
  - Selenium
- GP-3, 0.1-4.0' (Lab ID: 40215420006)
  - Selenium
- GP-4, 0.0-4.0' (Lab ID: 40215420002)
  - Silver
  - Cadmium
  - Selenium
- GP-5, 0.2-4.0' (Lab ID: 40215420015)
  - Silver
  - Cadmium
  - Selenium
- GP-6, 0.2-5.0' (Lab ID: 40215420003)
  - Silver
  - Cadmium
  - Selenium
- GP-7, 0.3-5.0' (Lab ID: 40215420010)
  - Silver
  - Cadmium
  - Selenium
- GP-8, 0.3-6.5' (Lab ID: 40215420009)
  - Silver
  - Cadmium
  - Selenium
- GP-9, 0.2-4.0' (Lab ID: 40215420011)
  - Silver

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PROJECT NARRATIVE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 12, 2020

Analyte Comments:

QC Batch: 366768

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GP-9, 0.2-4.0' (Lab ID: 40215420011)
  - Cadmium
  - Selenium

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PROJECT NARRATIVE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Method: **EPA 7471**
Description: 7471 Mercury
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 12, 2020

General Information:
15 samples were analyzed for EPA 7471 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7471 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Method: **EPA 8270 by SIM**
Description: 8270 MSSV PAH by SIM
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 12, 2020

General Information:
15 samples were analyzed for EPA 8270 by SIM by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 367157

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40215403015

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 2122352)
  - Fluoranthene
  - Phenanthrene
  - Pyrene

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Method: **EPA 8260**
Description: 8260 MSV Med Level Normal List
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 12, 2020

General Information:
16 samples were analyzed for EPA 8260 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-1, 0.2-5.5' **Lab ID: 40215420001** Collected: 09/23/20 13:10 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<28.6**	ug/kg	95.2	28.6	50	10/01/20 15:08	10/02/20 18:50	309-00-2	
alpha-BHC	**<12.2**	ug/kg	40.8	12.2	50	10/01/20 15:08	10/02/20 18:50	319-84-6	
beta-BHC	**<20.5**	ug/kg	68.3	20.5	50	10/01/20 15:08	10/02/20 18:50	319-85-7	
delta-BHC	**<15.6**	ug/kg	52.0	15.6	50	10/01/20 15:08	10/02/20 18:50	319-86-8	
gamma-BHC (Lindane)	**<11.3**	ug/kg	37.7	11.3	50	10/01/20 15:08	10/02/20 18:50	58-89-9	
Chlordane (Technical)	**<295**	ug/kg	981	295	50	10/01/20 15:08	10/02/20 18:50	57-74-9	
alpha-Chlordane	**<12.3**	ug/kg	41.1	12.3	50	10/01/20 15:08	10/02/20 18:50	5103-71-9	
gamma-Chlordane	**<28.7**	ug/kg	95.6	28.7	50	10/01/20 15:08	10/02/20 18:50	5103-74-2	
4,4'-DDD	**<20.7**	ug/kg	68.9	20.7	50	10/01/20 15:08	10/02/20 18:50	72-54-8	
4,4'-DDE	**<19.4**	ug/kg	64.6	19.4	50	10/01/20 15:08	10/02/20 18:50	72-55-9	
4,4'-DDT	**<43.6**	ug/kg	145	43.6	50	10/01/20 15:08	10/02/20 18:50	50-29-3	
Dieldrin	**<18.6**	ug/kg	61.9	18.6	50	10/01/20 15:08	10/02/20 18:50	60-57-1	
Endosulfan I	**<14.9**	ug/kg	49.7	14.9	50	10/01/20 15:08	10/02/20 18:50	959-98-8	
Endosulfan II	**<29.6**	ug/kg	98.6	29.6	50	10/01/20 15:08	10/02/20 18:50	33213-65-9	
Endosulfan sulfate	**<35.8**	ug/kg	119	35.8	50	10/01/20 15:08	10/02/20 18:50	1031-07-8	
Endrin	**<20.4**	ug/kg	67.8	20.4	50	10/01/20 15:08	10/02/20 18:50	72-20-8	
Endrin aldehyde	**<40.2**	ug/kg	134	40.2	50	10/01/20 15:08	10/02/20 18:50	7421-93-4	
Endrin ketone	**<49.4**	ug/kg	165	49.4	50	10/01/20 15:08	10/02/20 18:50	53494-70-5	
Heptachlor	**<20.1**	ug/kg	66.9	20.1	50	10/01/20 15:08	10/02/20 18:50	76-44-8	
Heptachlor epoxide	**<13.8**	ug/kg	45.9	13.8	50	10/01/20 15:08	10/02/20 18:50	1024-57-3	
Methoxychlor	**<295**	ug/kg	983	295	50	10/01/20 15:08	10/02/20 18:50	72-43-5	
Toxaphene	**<791**	ug/kg	2630	791	50	10/01/20 15:08	10/02/20 18:50	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	129	%.	30-150		50	10/01/20 15:08	10/02/20 18:50	877-09-8	D3,v1
Decachlorobiphenyl (S)	146	%.	30-150		50	10/01/20 15:08	10/02/20 18:50	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541								
	Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.4**	ug/kg	54.0	16.4	1	09/28/20 14:42	09/29/20 14:11	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.4**	ug/kg	54.0	16.4	1	09/28/20 14:42	09/29/20 14:11	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.4**	ug/kg	54.0	16.4	1	09/28/20 14:42	09/29/20 14:11	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.4**	ug/kg	54.0	16.4	1	09/28/20 14:42	09/29/20 14:11	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.4**	ug/kg	54.0	16.4	1	09/28/20 14:42	09/29/20 14:11	12672-29-6	
PCB-1254 (Aroclor 1254)	**22.6J**	ug/kg	54.0	16.4	1	09/28/20 14:42	09/29/20 14:11	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.4**	ug/kg	54.0	16.4	1	09/28/20 14:42	09/29/20 14:11	11096-82-5	
PCB, Total	**22.6J**	ug/kg	54.0	16.4	1	09/28/20 14:42	09/29/20 14:11	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	69-115		1	09/28/20 14:42	09/29/20 14:11	877-09-8	
Decachlorobiphenyl (S)	82	%	62-104		1	09/28/20 14:42	09/29/20 14:11	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**4.3**	mg/kg	0.95	0.28	6.667	09/29/20 06:57	10/02/20 15:04	7440-38-2	
Barium	**25.4**	mg/kg	0.94	0.28	6.667	09/29/20 06:57	10/02/20 15:04	7440-39-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-1, 0.2-5.5' **Lab ID: 40215420001** Collected: 09/23/20 13:10 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**0.55J**	mg/kg	0.72	0.10	6.667	09/29/20 06:57	10/02/20 15:04	7440-43-9	D3
Chromium	**10.4**	mg/kg	2.2	0.66	6.667	09/29/20 06:57	10/02/20 15:04	7440-47-3	
Copper	**23.5**	mg/kg	1.9	0.58	6.667	09/29/20 06:57	10/02/20 15:04	7440-50-8	
Lead	**18.2**	mg/kg	0.72	0.20	6.667	09/29/20 06:57	10/02/20 15:04	7439-92-1	
Selenium	**0.79**	mg/kg	0.72	0.20	6.667	09/29/20 06:57	10/02/20 15:04	7782-49-2	
Silver	**0.23J**	mg/kg	0.36	0.10	6.667	09/29/20 06:57	10/02/20 15:04	7440-22-4	D3
Zinc	**62.5**	mg/kg	25.1	7.5	6.667	09/29/20 06:57	10/02/20 15:04	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.028J**	mg/kg	0.035	0.0099	1	10/07/20 09:07	10/08/20 09:55	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**29.8J**	ug/kg	36.1	4.7	2	10/02/20 08:09	10/02/20 13:42	83-32-9	
Acenaphthylene	**15.1J**	ug/kg	36.1	4.6	2	10/02/20 08:09	10/02/20 13:42	208-96-8	
Anthracene	**35.1J**	ug/kg	36.1	4.5	2	10/02/20 08:09	10/02/20 13:42	120-12-7	
Benzo(a)anthracene	**168**	ug/kg	36.1	4.7	2	10/02/20 08:09	10/02/20 13:42	56-55-3	
Benzo(a)pyrene	**254**	ug/kg	36.1	4.1	2	10/02/20 08:09	10/02/20 13:42	50-32-8	
Benzo(b)fluoranthene	**367**	ug/kg	36.1	5.0	2	10/02/20 08:09	10/02/20 13:42	205-99-2	
Benzo(g,h,i)perylene	**169**	ug/kg	36.1	6.3	2	10/02/20 08:09	10/02/20 13:42	191-24-2	
Benzo(k)fluoranthene	**145**	ug/kg	36.1	4.6	2	10/02/20 08:09	10/02/20 13:42	207-08-9	
Chrysene	**245**	ug/kg	36.1	6.8	2	10/02/20 08:09	10/02/20 13:42	218-01-9	
Dibenz(a,h)anthracene	**39.9**	ug/kg	36.1	5.0	2	10/02/20 08:09	10/02/20 13:42	53-70-3	
Fluoranthene	**381**	ug/kg	36.1	4.3	2	10/02/20 08:09	10/02/20 13:42	206-44-0	
Fluorene	**17.3J**	ug/kg	36.1	4.3	2	10/02/20 08:09	10/02/20 13:42	86-73-7	
Indeno(1,2,3-cd)pyrene	**139**	ug/kg	36.1	7.5	2	10/02/20 08:09	10/02/20 13:42	193-39-5	
1-Methylnaphthalene	**25.0J**	ug/kg	36.1	5.3	2	10/02/20 08:09	10/02/20 13:42	90-12-0	
2-Methylnaphthalene	**29.4J**	ug/kg	36.1	5.3	2	10/02/20 08:09	10/02/20 13:42	91-57-6	
Naphthalene	**24.4J**	ug/kg	36.1	3.5	2	10/02/20 08:09	10/02/20 13:42	91-20-3	
Phenanthrene	**138**	ug/kg	36.1	4.1	2	10/02/20 08:09	10/02/20 13:42	85-01-8	
Pyrene	**283**	ug/kg	36.1	5.3	2	10/02/20 08:09	10/02/20 13:42	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	17-100		2	10/02/20 08:09	10/02/20 13:42	321-60-8	
Terphenyl-d14 (S)	72	%	17-98		2	10/02/20 08:09	10/02/20 13:42	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	75-35-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-1, 0.2-5.5' **Lab ID: 40215420001** Collected: 09/23/20 13:10 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/05/20 09:00	10/05/20 14:47	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/05/20 09:00	10/05/20 14:47	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/05/20 09:00	10/05/20 14:47	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/05/20 09:00	10/05/20 14:47	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 14:47	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 14:47	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 14:47	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/05/20 09:00	10/05/20 14:47	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 14:47	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/05/20 09:00	10/05/20 14:47	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/05/20 09:00	10/05/20 14:47	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/05/20 09:00	10/05/20 14:47	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/05/20 09:00	10/05/20 14:47	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/05/20 09:00	10/05/20 14:47	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 14:47	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/05/20 09:00	10/05/20 14:47	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/05/20 09:00	10/05/20 14:47	75-09-2	W
Naphthalene	**<27.3**	ug/kg	91.0	27.3	1	10/05/20 09:00	10/05/20 14:47	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/05/20 09:00	10/05/20 14:47	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/05/20 09:00	10/05/20 14:47	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	75-01-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-1, 0.2-5.5' **Lab ID: 40215420001** Collected: 09/23/20 13:10 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/05/20 09:00	10/05/20 14:47	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/05/20 09:00	10/05/20 14:47	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/05/20 09:00	10/05/20 14:47	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 14:47	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 14:47	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 14:47	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 14:47	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/05/20 09:00	10/05/20 14:47	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/05/20 09:00	10/05/20 14:47	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	58-145		1	10/05/20 09:00	10/05/20 14:47	1868-53-7	
Toluene-d8 (S)	94	%	56-140		1	10/05/20 09:00	10/05/20 14:47	2037-26-5	
4-Bromofluorobenzene (S)	83	%	52-137		1	10/05/20 09:00	10/05/20 14:47	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**7.4**	%	0.10	0.10	1		09/28/20 14:01		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-4, 0.0-4.0' **Lab ID: 40215420002** Collected: 09/23/20 15:15 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<5.6**	ug/kg	18.5	5.6	10	10/01/20 15:08	10/02/20 15:45	309-00-2	
alpha-BHC	**<2.4**	ug/kg	7.9	2.4	10	10/01/20 15:08	10/02/20 15:45	319-84-6	
beta-BHC	**<4.0**	ug/kg	13.3	4.0	10	10/01/20 15:08	10/02/20 15:45	319-85-7	
delta-BHC	**<3.0**	ug/kg	10.1	3.0	10	10/01/20 15:08	10/02/20 15:45	319-86-8	
gamma-BHC (Lindane)	**<2.2**	ug/kg	7.3	2.2	10	10/01/20 15:08	10/02/20 15:45	58-89-9	
Chlordane (Technical)	**<57.2**	ug/kg	191	57.2	10	10/01/20 15:08	10/02/20 15:45	57-74-9	
alpha-Chlordane	**<2.4**	ug/kg	8.0	2.4	10	10/01/20 15:08	10/02/20 15:45	5103-71-9	
gamma-Chlordane	**<5.6**	ug/kg	18.6	5.6	10	10/01/20 15:08	10/02/20 15:45	5103-74-2	
4,4'-DDD	**<4.0**	ug/kg	13.4	4.0	10	10/01/20 15:08	10/02/20 15:45	72-54-8	
4,4'-DDE	**<3.8**	ug/kg	12.6	3.8	10	10/01/20 15:08	10/02/20 15:45	72-55-9	
4,4'-DDT	**<8.5**	ug/kg	28.2	8.5	10	10/01/20 15:08	10/02/20 15:45	50-29-3	
Dieldrin	**<3.6**	ug/kg	12.0	3.6	10	10/01/20 15:08	10/02/20 15:45	60-57-1	
Endosulfan I	**<2.9**	ug/kg	9.7	2.9	10	10/01/20 15:08	10/02/20 15:45	959-98-8	
Endosulfan II	**<5.8**	ug/kg	19.2	5.8	10	10/01/20 15:08	10/02/20 15:45	33213-65-9	
Endosulfan sulfate	**<7.0**	ug/kg	23.1	7.0	10	10/01/20 15:08	10/02/20 15:45	1031-07-8	
Endrin	**<4.0**	ug/kg	13.2	4.0	10	10/01/20 15:08	10/02/20 15:45	72-20-8	
Endrin aldehyde	**<7.8**	ug/kg	26.1	7.8	10	10/01/20 15:08	10/02/20 15:45	7421-93-4	
Endrin ketone	**<9.6**	ug/kg	32.0	9.6	10	10/01/20 15:08	10/02/20 15:45	53494-70-5	
Heptachlor	**<3.9**	ug/kg	13.0	3.9	10	10/01/20 15:08	10/02/20 15:45	76-44-8	
Heptachlor epoxide	**<2.7**	ug/kg	8.9	2.7	10	10/01/20 15:08	10/02/20 15:45	1024-57-3	
Methoxychlor	**<57.4**	ug/kg	191	57.4	10	10/01/20 15:08	10/02/20 15:45	72-43-5	
Toxaphene	**<154**	ug/kg	512	154	10	10/01/20 15:08	10/02/20 15:45	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	109	%.	30-150		10	10/01/20 15:08	10/02/20 15:45	877-09-8	D3
Decachlorobiphenyl (S)	130	%.	30-150		10	10/01/20 15:08	10/02/20 15:45	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541								
	Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.0**	ug/kg	52.5	16.0	1	09/28/20 14:42	09/29/20 14:33	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.0**	ug/kg	52.5	16.0	1	09/28/20 14:42	09/29/20 14:33	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.0**	ug/kg	52.5	16.0	1	09/28/20 14:42	09/29/20 14:33	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.0**	ug/kg	52.5	16.0	1	09/28/20 14:42	09/29/20 14:33	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.0**	ug/kg	52.5	16.0	1	09/28/20 14:42	09/29/20 14:33	12672-29-6	
PCB-1254 (Aroclor 1254)	**21.8J**	ug/kg	52.5	16.0	1	09/28/20 14:42	09/29/20 14:33	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.0**	ug/kg	52.5	16.0	1	09/28/20 14:42	09/29/20 14:33	11096-82-5	
PCB, Total	**21.8J**	ug/kg	52.5	16.0	1	09/28/20 14:42	09/29/20 14:33	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	69-115		1	09/28/20 14:42	09/29/20 14:33	877-09-8	
Decachlorobiphenyl (S)	84	%	62-104		1	09/28/20 14:42	09/29/20 14:33	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**2.6**	mg/kg	0.91	0.27	6.667	09/29/20 06:57	10/02/20 15:31	7440-38-2	
Barium	**15.4**	mg/kg	0.90	0.27	6.667	09/29/20 06:57	10/02/20 15:31	7440-39-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-4, 0.0-4.0' **Lab ID: 40215420002** Collected: 09/23/20 15:15 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**0.29J**	mg/kg	0.69	0.10	6.667	09/29/20 06:57	10/02/20 15:31	7440-43-9	D3
Chromium	**9.6**	mg/kg	2.1	0.63	6.667	09/29/20 06:57	10/02/20 15:31	7440-47-3	
Copper	**33.6**	mg/kg	1.8	0.55	6.667	09/29/20 06:57	10/02/20 15:31	7440-50-8	
Lead	**50.9**	mg/kg	0.69	0.19	6.667	09/29/20 06:57	10/02/20 15:31	7439-92-1	
Selenium	**0.47J**	mg/kg	0.69	0.19	6.667	09/29/20 06:57	10/02/20 15:31	7782-49-2	D3
Silver	**0.11J**	mg/kg	0.34	0.098	6.667	09/29/20 06:57	10/02/20 15:31	7440-22-4	D3
Zinc	**83.8**	mg/kg	24.0	7.2	6.667	09/29/20 06:57	10/02/20 15:31	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.016J**	mg/kg	0.036	0.010	1	10/07/20 09:07	10/08/20 09:57	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**<22.7**	ug/kg	175	22.7	10	10/02/20 08:09	10/02/20 14:33	83-32-9	
Acenaphthylene	**22.1J**	ug/kg	175	22.0	10	10/02/20 08:09	10/02/20 14:33	208-96-8	
Anthracene	**114J**	ug/kg	175	21.7	10	10/02/20 08:09	10/02/20 14:33	120-12-7	
Benzo(a)anthracene	**680**	ug/kg	175	22.6	10	10/02/20 08:09	10/02/20 14:33	56-55-3	
Benzo(a)pyrene	**960**	ug/kg	175	19.8	10	10/02/20 08:09	10/02/20 14:33	50-32-8	
Benzo(b)fluoranthene	**1410**	ug/kg	175	24.3	10	10/02/20 08:09	10/02/20 14:33	205-99-2	
Benzo(g,h,i)perylene	**593**	ug/kg	175	30.7	10	10/02/20 08:09	10/02/20 14:33	191-24-2	
Benzo(k)fluoranthene	**537**	ug/kg	175	22.3	10	10/02/20 08:09	10/02/20 14:33	207-08-9	
Chrysene	**951**	ug/kg	175	32.9	10	10/02/20 08:09	10/02/20 14:33	218-01-9	
Dibenz(a,h)anthracene	**157J**	ug/kg	175	24.2	10	10/02/20 08:09	10/02/20 14:33	53-70-3	
Fluoranthene	**1640**	ug/kg	175	20.7	10	10/02/20 08:09	10/02/20 14:33	206-44-0	
Fluorene	**21.0J**	ug/kg	175	20.9	10	10/02/20 08:09	10/02/20 14:33	86-73-7	
Indeno(1,2,3-cd)pyrene	**524**	ug/kg	175	36.4	10	10/02/20 08:09	10/02/20 14:33	193-39-5	
1-Methylnaphthalene	**<25.5**	ug/kg	175	25.5	10	10/02/20 08:09	10/02/20 14:33	90-12-0	
2-Methylnaphthalene	**<25.5**	ug/kg	175	25.5	10	10/02/20 08:09	10/02/20 14:33	91-57-6	
Naphthalene	**<17.0**	ug/kg	175	17.0	10	10/02/20 08:09	10/02/20 14:33	91-20-3	
Phenanthrene	**520**	ug/kg	175	20.0	10	10/02/20 08:09	10/02/20 14:33	85-01-8	
Pyrene	**1200**	ug/kg	175	25.7	10	10/02/20 08:09	10/02/20 14:33	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	59	%	17-100		10	10/02/20 08:09	10/02/20 14:33	321-60-8	
Terphenyl-d14 (S)	66	%	17-98		10	10/02/20 08:09	10/02/20 14:33	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	75-35-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-4, 0.0-4.0' **Lab ID: 40215420002** Collected: 09/23/20 15:15 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/02/20 11:15	10/05/20 20:36	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/02/20 11:15	10/05/20 20:36	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/02/20 11:15	10/05/20 20:36	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/02/20 11:15	10/05/20 20:36	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 20:36	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 20:36	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 20:36	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/02/20 11:15	10/05/20 20:36	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 20:36	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/02/20 11:15	10/05/20 20:36	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/02/20 11:15	10/05/20 20:36	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/02/20 11:15	10/05/20 20:36	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/02/20 11:15	10/05/20 20:36	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/02/20 11:15	10/05/20 20:36	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 20:36	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/02/20 11:15	10/05/20 20:36	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/02/20 11:15	10/05/20 20:36	75-09-2	W
Naphthalene	**<27.3**	ug/kg	91.0	27.3	1	10/02/20 11:15	10/05/20 20:36	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/02/20 11:15	10/05/20 20:36	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/02/20 11:15	10/05/20 20:36	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	75-01-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-4, 0.0-4.0' **Lab ID: 40215420002** Collected: 09/23/20 15:15 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/02/20 11:15	10/05/20 20:36	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/02/20 11:15	10/05/20 20:36	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/02/20 11:15	10/05/20 20:36	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:36	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 20:36	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 20:36	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 20:36	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/02/20 11:15	10/05/20 20:36	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/02/20 11:15	10/05/20 20:36	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	88	%	58-145		1	10/02/20 11:15	10/05/20 20:36	1868-53-7	
Toluene-d8 (S)	89	%	56-140		1	10/02/20 11:15	10/05/20 20:36	2037-26-5	
4-Bromofluorobenzene (S)	76	%	52-137		1	10/02/20 11:15	10/05/20 20:36	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**4.4**	%	0.10	0.10	1		09/28/20 14:01		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-6, 0.2-5.0' **Lab ID: 40215420003** Collected: 09/23/20 17:02 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<2.9**	ug/kg	9.6	2.9	5	10/01/20 15:08	10/02/20 14:31	309-00-2	
alpha-BHC	**<1.2**	ug/kg	4.1	1.2	5	10/01/20 15:08	10/02/20 14:31	319-84-6	
beta-BHC	**<2.1**	ug/kg	6.9	2.1	5	10/01/20 15:08	10/02/20 14:31	319-85-7	
delta-BHC	**<1.6**	ug/kg	5.2	1.6	5	10/01/20 15:08	10/02/20 14:31	319-86-8	
gamma-BHC (Lindane)	**<1.1**	ug/kg	3.8	1.1	5	10/01/20 15:08	10/02/20 14:31	58-89-9	
Chlordane (Technical)	**<29.7**	ug/kg	98.9	29.7	5	10/01/20 15:08	10/02/20 14:31	57-74-9	
alpha-Chlordane	**<1.2**	ug/kg	4.1	1.2	5	10/01/20 15:08	10/02/20 14:31	5103-71-9	
gamma-Chlordane	**<2.9**	ug/kg	9.6	2.9	5	10/01/20 15:08	10/02/20 14:31	5103-74-2	
4,4'-DDD	**<2.1**	ug/kg	6.9	2.1	5	10/01/20 15:08	10/02/20 14:31	72-54-8	
4,4'-DDE	**<2.0**	ug/kg	6.5	2.0	5	10/01/20 15:08	10/02/20 14:31	72-55-9	
4,4'-DDT	**<4.4**	ug/kg	14.6	4.4	5	10/01/20 15:08	10/02/20 14:31	50-29-3	
Dieldrin	**6.1J**	ug/kg	6.2	1.9	5	10/01/20 15:08	10/02/20 14:31	60-57-1	
Endosulfan I	**<1.5**	ug/kg	5.0	1.5	5	10/01/20 15:08	10/02/20 14:31	959-98-8	
Endosulfan II	**<3.0**	ug/kg	9.9	3.0	5	10/01/20 15:08	10/02/20 14:31	33213-65-9	
Endosulfan sulfate	**<3.6**	ug/kg	12.0	3.6	5	10/01/20 15:08	10/02/20 14:31	1031-07-8	
Endrin	**<2.1**	ug/kg	6.8	2.1	5	10/01/20 15:08	10/02/20 14:31	72-20-8	
Endrin aldehyde	**<4.1**	ug/kg	13.5	4.1	5	10/01/20 15:08	10/02/20 14:31	7421-93-4	
Endrin ketone	**12.1J**	ug/kg	16.6	5.0	5	10/01/20 15:08	10/02/20 14:31	53494-70-5	
Heptachlor	**<2.0**	ug/kg	6.7	2.0	5	10/01/20 15:08	10/02/20 14:31	76-44-8	
Heptachlor epoxide	**<1.4**	ug/kg	4.6	1.4	5	10/01/20 15:08	10/02/20 14:31	1024-57-3	
Methoxychlor	**<29.7**	ug/kg	99.1	29.7	5	10/01/20 15:08	10/02/20 14:31	72-43-5	
Toxaphene	**<79.8**	ug/kg	266	79.8	5	10/01/20 15:08	10/02/20 14:31	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	95	%.	30-150		5	10/01/20 15:08	10/02/20 14:31	877-09-8	D3
Decachlorobiphenyl (S)	108	%.	30-150		5	10/01/20 15:08	10/02/20 14:31	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541								
	Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.4**	ug/kg	54.0	16.4	1	09/30/20 12:23	10/01/20 20:49	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.4**	ug/kg	54.0	16.4	1	09/30/20 12:23	10/01/20 20:49	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.4**	ug/kg	54.0	16.4	1	09/30/20 12:23	10/01/20 20:49	11141-16-5	
PCB-1242 (Aroclor 1242)	**455**	ug/kg	54.0	16.4	1	09/30/20 12:23	10/01/20 20:49	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.4**	ug/kg	54.0	16.4	1	09/30/20 12:23	10/01/20 20:49	12672-29-6	
PCB-1254 (Aroclor 1254)	**125**	ug/kg	54.0	16.4	1	09/30/20 12:23	10/01/20 20:49	11097-69-1	
PCB-1260 (Aroclor 1260)	**19.0J**	ug/kg	54.0	16.4	1	09/30/20 12:23	10/01/20 20:49	11096-82-5	
PCB, Total	**599**	ug/kg	54.0	16.4	1	09/30/20 12:23	10/01/20 20:49	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	69-115		1	09/30/20 12:23	10/01/20 20:49	877-09-8	
Decachlorobiphenyl (S)	82	%	62-104		1	09/30/20 12:23	10/01/20 20:49	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**4.0**	mg/kg	0.95	0.28	6.667	09/29/20 06:57	10/02/20 15:44	7440-38-2	
Barium	**44.3**	mg/kg	0.94	0.28	6.667	09/29/20 06:57	10/02/20 15:44	7440-39-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-6, 0.2-5.0' **Lab ID: 40215420003** Collected: 09/23/20 17:02 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**0.71J**	mg/kg	0.72	0.10	6.667	09/29/20 06:57	10/02/20 15:44	7440-43-9	D3
Chromium	**10.6**	mg/kg	2.2	0.65	6.667	09/29/20 06:57	10/02/20 15:44	7440-47-3	
Copper	**34.8**	mg/kg	1.9	0.58	6.667	09/29/20 06:57	10/02/20 15:44	7440-50-8	
Lead	**129**	mg/kg	0.72	0.19	6.667	09/29/20 06:57	10/02/20 15:44	7439-92-1	
Selenium	**0.55J**	mg/kg	0.72	0.20	6.667	09/29/20 06:57	10/02/20 15:44	7782-49-2	D3
Silver	**<0.10**	mg/kg	0.36	0.10	6.667	09/29/20 06:57	10/02/20 15:44	7440-22-4	D3
Zinc	**1790**	mg/kg	25.0	7.5	6.667	09/29/20 06:57	10/02/20 15:44	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.070**	mg/kg	0.037	0.010	1	10/07/20 09:07	10/08/20 10:00	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**8.0J**	ug/kg	18.0	2.3	1	10/02/20 08:09	10/02/20 13:59	83-32-9	
Acenaphthylene	**8.5J**	ug/kg	18.0	2.3	1	10/02/20 08:09	10/02/20 13:59	208-96-8	
Anthracene	**16.6J**	ug/kg	18.0	2.2	1	10/02/20 08:09	10/02/20 13:59	120-12-7	
Benzo(a)anthracene	**38.4**	ug/kg	18.0	2.3	1	10/02/20 08:09	10/02/20 13:59	56-55-3	
Benzo(a)pyrene	**41.9**	ug/kg	18.0	2.0	1	10/02/20 08:09	10/02/20 13:59	50-32-8	
Benzo(b)fluoranthene	**60.9**	ug/kg	18.0	2.5	1	10/02/20 08:09	10/02/20 13:59	205-99-2	
Benzo(g,h,i)perylene	**24.3**	ug/kg	18.0	3.2	1	10/02/20 08:09	10/02/20 13:59	191-24-2	
Benzo(k)fluoranthene	**22.9**	ug/kg	18.0	2.3	1	10/02/20 08:09	10/02/20 13:59	207-08-9	
Chrysene	**49.2**	ug/kg	18.0	3.4	1	10/02/20 08:09	10/02/20 13:59	218-01-9	
Dibenz(a,h)anthracene	**6.4J**	ug/kg	18.0	2.5	1	10/02/20 08:09	10/02/20 13:59	53-70-3	
Fluoranthene	**73.3**	ug/kg	18.0	2.1	1	10/02/20 08:09	10/02/20 13:59	206-44-0	
Fluorene	**11.3J**	ug/kg	18.0	2.2	1	10/02/20 08:09	10/02/20 13:59	86-73-7	
Indeno(1,2,3-cd)pyrene	**19.4**	ug/kg	18.0	3.8	1	10/02/20 08:09	10/02/20 13:59	193-39-5	
1-Methylnaphthalene	**47.7**	ug/kg	18.0	2.6	1	10/02/20 08:09	10/02/20 13:59	90-12-0	
2-Methylnaphthalene	**59.9**	ug/kg	18.0	2.6	1	10/02/20 08:09	10/02/20 13:59	91-57-6	
Naphthalene	**43.0**	ug/kg	18.0	1.8	1	10/02/20 08:09	10/02/20 13:59	91-20-3	
Phenanthrene	**70.4**	ug/kg	18.0	2.1	1	10/02/20 08:09	10/02/20 13:59	85-01-8	
Pyrene	**<2.7**	ug/kg	18.0	2.7	1	10/02/20 08:09	10/02/20 13:59	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	44	%	17-100		1	10/02/20 08:09	10/02/20 13:59	321-60-8	
Terphenyl-d14 (S)	48	%	17-98		1	10/02/20 08:09	10/02/20 13:59	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	75-35-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-6, 0.2-5.0' **Lab ID: 40215420003** Collected: 09/23/20 17:02 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/02/20 11:15	10/05/20 23:27	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/02/20 11:15	10/05/20 23:27	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/02/20 11:15	10/05/20 23:27	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/02/20 11:15	10/05/20 23:27	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 23:27	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 23:27	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 23:27	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/02/20 11:15	10/05/20 23:27	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 23:27	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/02/20 11:15	10/05/20 23:27	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/02/20 11:15	10/05/20 23:27	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/02/20 11:15	10/05/20 23:27	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/02/20 11:15	10/05/20 23:27	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/02/20 11:15	10/05/20 23:27	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 23:27	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/02/20 11:15	10/05/20 23:27	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/02/20 11:15	10/05/20 23:27	75-09-2	W
Naphthalene	**<27.3**	ug/kg	91.0	27.3	1	10/02/20 11:15	10/05/20 23:27	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/02/20 11:15	10/05/20 23:27	127-18-4	W
Toluene	**58.3J**	ug/kg	64.8	27.0	1	10/02/20 11:15	10/05/20 23:27	108-88-3	
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/02/20 11:15	10/05/20 23:27	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	75-01-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-6, 0.2-5.0' **Lab ID: 40215420003** Collected: 09/23/20 17:02 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/02/20 11:15	10/05/20 23:27	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/02/20 11:15	10/05/20 23:27	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/02/20 11:15	10/05/20 23:27	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 23:27	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 23:27	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 23:27	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 23:27	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/02/20 11:15	10/05/20 23:27	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/02/20 11:15	10/05/20 23:27	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	58-145		1	10/02/20 11:15	10/05/20 23:27	1868-53-7	
Toluene-d8 (S)	98	%	56-140		1	10/02/20 11:15	10/05/20 23:27	2037-26-5	
4-Bromofluorobenzene (S)	84	%	52-137		1	10/02/20 11:15	10/05/20 23:27	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**7.5**	%	0.10	0.10	1		09/28/20 14:20		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-10, 0.3-4.0' **Lab ID: 40215420004** Collected: 09/23/20 12:05 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<29.1**	ug/kg	96.7	29.1	50	10/01/20 15:08	10/02/20 18:32	309-00-2	
alpha-BHC	**<12.4**	ug/kg	41.4	12.4	50	10/01/20 15:08	10/02/20 18:32	319-84-6	
beta-BHC	**<20.9**	ug/kg	69.4	20.9	50	10/01/20 15:08	10/02/20 18:32	319-85-7	
delta-BHC	**<15.9**	ug/kg	52.8	15.9	50	10/01/20 15:08	10/02/20 18:32	319-86-8	
gamma-BHC (Lindane)	**<11.5**	ug/kg	38.3	11.5	50	10/01/20 15:08	10/02/20 18:32	58-89-9	
Chlordane (Technical)	**<299**	ug/kg	996	299	50	10/01/20 15:08	10/02/20 18:32	57-74-9	
alpha-Chlordane	**<12.5**	ug/kg	41.8	12.5	50	10/01/20 15:08	10/02/20 18:32	5103-71-9	
gamma-Chlordane	**<29.2**	ug/kg	97.1	29.2	50	10/01/20 15:08	10/02/20 18:32	5103-74-2	
4,4'-DDD	**<21.0**	ug/kg	70.0	21.0	50	10/01/20 15:08	10/02/20 18:32	72-54-8	
4,4'-DDE	**<19.7**	ug/kg	65.6	19.7	50	10/01/20 15:08	10/02/20 18:32	72-55-9	
4,4'-DDT	**<44.3**	ug/kg	147	44.3	50	10/01/20 15:08	10/02/20 18:32	50-29-3	
Dieldrin	**<18.9**	ug/kg	62.9	18.9	50	10/01/20 15:08	10/02/20 18:32	60-57-1	
Endosulfan I	**<15.2**	ug/kg	50.5	15.2	50	10/01/20 15:08	10/02/20 18:32	959-98-8	
Endosulfan II	**<30.1**	ug/kg	100	30.1	50	10/01/20 15:08	10/02/20 18:32	33213-65-9	
Endosulfan sulfate	**<36.3**	ug/kg	121	36.3	50	10/01/20 15:08	10/02/20 18:32	1031-07-8	
Endrin	**<20.7**	ug/kg	68.9	20.7	50	10/01/20 15:08	10/02/20 18:32	72-20-8	
Endrin aldehyde	**<40.9**	ug/kg	136	40.9	50	10/01/20 15:08	10/02/20 18:32	7421-93-4	
Endrin ketone	**<50.2**	ug/kg	167	50.2	50	10/01/20 15:08	10/02/20 18:32	53494-70-5	
Heptachlor	**<20.4**	ug/kg	68.0	20.4	50	10/01/20 15:08	10/02/20 18:32	76-44-8	
Heptachlor epoxide	**<14.0**	ug/kg	46.7	14.0	50	10/01/20 15:08	10/02/20 18:32	1024-57-3	
Methoxychlor	**<300**	ug/kg	998	300	50	10/01/20 15:08	10/02/20 18:32	72-43-5	
Toxaphene	**<804**	ug/kg	2680	804	50	10/01/20 15:08	10/02/20 18:32	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	132	%.	30-150		50	10/01/20 15:08	10/02/20 18:32	877-09-8	D3,v1
Decachlorobiphenyl (S)	136	%.	30-150		50	10/01/20 15:08	10/02/20 18:32	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541								
	Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.5**	ug/kg	54.2	16.5	1	09/28/20 14:42	09/29/20 15:17	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.5**	ug/kg	54.2	16.5	1	09/28/20 14:42	09/29/20 15:17	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.5**	ug/kg	54.2	16.5	1	09/28/20 14:42	09/29/20 15:17	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.5**	ug/kg	54.2	16.5	1	09/28/20 14:42	09/29/20 15:17	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.5**	ug/kg	54.2	16.5	1	09/28/20 14:42	09/29/20 15:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**35.0J**	ug/kg	54.2	16.5	1	09/28/20 14:42	09/29/20 15:17	11097-69-1	
PCB-1260 (Aroclor 1260)	**32.2J**	ug/kg	54.2	16.5	1	09/28/20 14:42	09/29/20 15:17	11096-82-5	
PCB, Total	**67.2**	ug/kg	54.2	16.5	1	09/28/20 14:42	09/29/20 15:17	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	92	%	69-115		1	09/28/20 14:42	09/29/20 15:17	877-09-8	
Decachlorobiphenyl (S)	84	%	62-104		1	09/28/20 14:42	09/29/20 15:17	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**3.5**	mg/kg	0.93	0.28	6.667	09/29/20 06:57	10/02/20 15:51	7440-38-2	
Barium	**22.4**	mg/kg	0.93	0.28	6.667	09/29/20 06:57	10/02/20 15:51	7440-39-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-10, 0.3-4.0' **Lab ID: 40215420004** Collected: 09/23/20 12:05 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**0.12J**	mg/kg	0.71	0.10	6.667	09/29/20 06:57	10/02/20 15:51	7440-43-9	D3
Chromium	**12.4**	mg/kg	2.1	0.64	6.667	09/29/20 06:57	10/02/20 15:51	7440-47-3	
Copper	**29.0**	mg/kg	1.9	0.57	6.667	09/29/20 06:57	10/02/20 15:51	7440-50-8	
Lead	**21.5**	mg/kg	0.71	0.19	6.667	09/29/20 06:57	10/02/20 15:51	7439-92-1	
Selenium	**0.59J**	mg/kg	0.71	0.19	6.667	09/29/20 06:57	10/02/20 15:51	7782-49-2	D3
Silver	**<0.10**	mg/kg	0.35	0.10	6.667	09/29/20 06:57	10/02/20 15:51	7440-22-4	D3
Zinc	**56.5**	mg/kg	24.6	7.4	6.667	09/29/20 06:57	10/02/20 15:51	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.038**	mg/kg	0.037	0.010	1	10/07/20 09:07	10/08/20 10:02	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**5.8J**	ug/kg	18.2	2.4	1	10/02/20 08:09	10/02/20 14:16	83-32-9	
Acenaphthylene	**37.2**	ug/kg	18.2	2.3	1	10/02/20 08:09	10/02/20 14:16	208-96-8	
Anthracene	**32.7**	ug/kg	18.2	2.3	1	10/02/20 08:09	10/02/20 14:16	120-12-7	
Benzo(a)anthracene	**100**	ug/kg	18.2	2.3	1	10/02/20 08:09	10/02/20 14:16	56-55-3	
Benzo(a)pyrene	**166**	ug/kg	18.2	2.1	1	10/02/20 08:09	10/02/20 14:16	50-32-8	
Benzo(b)fluoranthene	**186**	ug/kg	18.2	2.5	1	10/02/20 08:09	10/02/20 14:16	205-99-2	
Benzo(g,h,i)perylene	**96.3**	ug/kg	18.2	3.2	1	10/02/20 08:09	10/02/20 14:16	191-24-2	
Benzo(k)fluoranthene	**92.0**	ug/kg	18.2	2.3	1	10/02/20 08:09	10/02/20 14:16	207-08-9	
Chrysene	**114**	ug/kg	18.2	3.4	1	10/02/20 08:09	10/02/20 14:16	218-01-9	
Dibenz(a,h)anthracene	**22.8**	ug/kg	18.2	2.5	1	10/02/20 08:09	10/02/20 14:16	53-70-3	
Fluoranthene	**142**	ug/kg	18.2	2.1	1	10/02/20 08:09	10/02/20 14:16	206-44-0	
Fluorene	**5.4J**	ug/kg	18.2	2.2	1	10/02/20 08:09	10/02/20 14:16	86-73-7	
Indeno(1,2,3-cd)pyrene	**84.4**	ug/kg	18.2	3.8	1	10/02/20 08:09	10/02/20 14:16	193-39-5	
1-Methylnaphthalene	**26.1**	ug/kg	18.2	2.7	1	10/02/20 08:09	10/02/20 14:16	90-12-0	
2-Methylnaphthalene	**35.8**	ug/kg	18.2	2.7	1	10/02/20 08:09	10/02/20 14:16	91-57-6	
Naphthalene	**31.8**	ug/kg	18.2	1.8	1	10/02/20 08:09	10/02/20 14:16	91-20-3	
Phenanthrene	**49.5**	ug/kg	18.2	2.1	1	10/02/20 08:09	10/02/20 14:16	85-01-8	
Pyrene	**152**	ug/kg	18.2	2.7	1	10/02/20 08:09	10/02/20 14:16	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	66	%	17-100		1	10/02/20 08:09	10/02/20 14:16	321-60-8	
Terphenyl-d14 (S)	68	%	17-98		1	10/02/20 08:09	10/02/20 14:16	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	75-35-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-10, 0.3-4.0' **Lab ID: 40215420004** Collected: 09/23/20 12:05 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/02/20 11:15	10/05/20 20:53	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/02/20 11:15	10/05/20 20:53	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/02/20 11:15	10/05/20 20:53	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/02/20 11:15	10/05/20 20:53	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 20:53	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 20:53	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 20:53	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/02/20 11:15	10/05/20 20:53	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 20:53	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/02/20 11:15	10/05/20 20:53	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/02/20 11:15	10/05/20 20:53	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/02/20 11:15	10/05/20 20:53	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/02/20 11:15	10/05/20 20:53	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/02/20 11:15	10/05/20 20:53	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 20:53	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/02/20 11:15	10/05/20 20:53	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/02/20 11:15	10/05/20 20:53	75-09-2	W
Naphthalene	**<27.3**	ug/kg	91.0	27.3	1	10/02/20 11:15	10/05/20 20:53	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/02/20 11:15	10/05/20 20:53	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/02/20 11:15	10/05/20 20:53	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	75-01-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-10, 0.3-4.0' **Lab ID: 40215420004** Collected: 09/23/20 12:05 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/02/20 11:15	10/05/20 20:53	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/02/20 11:15	10/05/20 20:53	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/02/20 11:15	10/05/20 20:53	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 20:53	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 20:53	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 20:53	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 20:53	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/02/20 11:15	10/05/20 20:53	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/02/20 11:15	10/05/20 20:53	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	91	%	58-145		1	10/02/20 11:15	10/05/20 20:53	1868-53-7	
Toluene-d8 (S)	94	%	56-140		1	10/02/20 11:15	10/05/20 20:53	2037-26-5	
4-Bromofluorobenzene (S)	78	%	52-137		1	10/02/20 11:15	10/05/20 20:53	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**8.1**	%	0.10	0.10	1		09/28/20 14:20		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-11, 0.3-4.5' **Lab ID: 40215420005** Collected: 09/23/20 11:14 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<29.2**	ug/kg	97.3	29.2	50	10/01/20 15:08	10/02/20 19:08	309-00-2	
alpha-BHC	**<12.5**	ug/kg	41.6	12.5	50	10/01/20 15:08	10/02/20 19:08	319-84-6	
beta-BHC	**<21.0**	ug/kg	69.8	21.0	50	10/01/20 15:08	10/02/20 19:08	319-85-7	
delta-BHC	**<15.9**	ug/kg	53.1	15.9	50	10/01/20 15:08	10/02/20 19:08	319-86-8	
gamma-BHC (Lindane)	**<11.6**	ug/kg	38.6	11.6	50	10/01/20 15:08	10/02/20 19:08	58-89-9	
Chlordane (Technical)	**<301**	ug/kg	1000	301	50	10/01/20 15:08	10/02/20 19:08	57-74-9	
alpha-Chlordane	**<12.6**	ug/kg	42.0	12.6	50	10/01/20 15:08	10/02/20 19:08	5103-71-9	
gamma-Chlordane	**<29.3**	ug/kg	97.7	29.3	50	10/01/20 15:08	10/02/20 19:08	5103-74-2	
4,4'-DDD	**<21.1**	ug/kg	70.4	21.1	50	10/01/20 15:08	10/02/20 19:08	72-54-8	
4,4'-DDE	**<19.8**	ug/kg	66.0	19.8	50	10/01/20 15:08	10/02/20 19:08	72-55-9	
4,4'-DDT	**<44.5**	ug/kg	148	44.5	50	10/01/20 15:08	10/02/20 19:08	50-29-3	
Dieldrin	**<19.0**	ug/kg	63.3	19.0	50	10/01/20 15:08	10/02/20 19:08	60-57-1	
Endosulfan I	**<15.2**	ug/kg	50.7	15.2	50	10/01/20 15:08	10/02/20 19:08	959-98-8	
Endosulfan II	**<30.3**	ug/kg	101	30.3	50	10/01/20 15:08	10/02/20 19:08	33213-65-9	
Endosulfan sulfate	**<36.5**	ug/kg	122	36.5	50	10/01/20 15:08	10/02/20 19:08	1031-07-8	
Endrin	**<20.8**	ug/kg	69.3	20.8	50	10/01/20 15:08	10/02/20 19:08	72-20-8	
Endrin aldehyde	**<41.1**	ug/kg	137	41.1	50	10/01/20 15:08	10/02/20 19:08	7421-93-4	
Endrin ketone	**<50.5**	ug/kg	168	50.5	50	10/01/20 15:08	10/02/20 19:08	53494-70-5	
Heptachlor	**<20.5**	ug/kg	68.4	20.5	50	10/01/20 15:08	10/02/20 19:08	76-44-8	
Heptachlor epoxide	**<14.1**	ug/kg	46.9	14.1	50	10/01/20 15:08	10/02/20 19:08	1024-57-3	
Methoxychlor	**<301**	ug/kg	1000	301	50	10/01/20 15:08	10/02/20 19:08	72-43-5	
Toxaphene	**<808**	ug/kg	2690	808	50	10/01/20 15:08	10/02/20 19:08	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	125	%.	30-150		50	10/01/20 15:08	10/02/20 19:08	877-09-8	D3,v1
Decachlorobiphenyl (S)	153	%.	30-150		50	10/01/20 15:08	10/02/20 19:08	2051-24-3	S4
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541								
	Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.7**	ug/kg	54.8	16.7	1	09/28/20 14:42	09/29/20 13:27	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.7**	ug/kg	54.8	16.7	1	09/28/20 14:42	09/29/20 13:27	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.7**	ug/kg	54.8	16.7	1	09/28/20 14:42	09/29/20 13:27	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.7**	ug/kg	54.8	16.7	1	09/28/20 14:42	09/29/20 13:27	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.7**	ug/kg	54.8	16.7	1	09/28/20 14:42	09/29/20 13:27	12672-29-6	
PCB-1254 (Aroclor 1254)	**25.4J**	ug/kg	54.8	16.7	1	09/28/20 14:42	09/29/20 13:27	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.7**	ug/kg	54.8	16.7	1	09/28/20 14:42	09/29/20 13:27	11096-82-5	
PCB, Total	**25.4J**	ug/kg	54.8	16.7	1	09/28/20 14:42	09/29/20 13:27	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	69-115		1	09/28/20 14:42	09/29/20 13:27	877-09-8	
Decachlorobiphenyl (S)	84	%	62-104		1	09/28/20 14:42	09/29/20 13:27	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**4.0**	mg/kg	0.95	0.29	6.667	09/29/20 06:57	10/02/20 16:12	7440-38-2	
Barium	**34.4**	mg/kg	0.94	0.28	6.667	09/29/20 06:57	10/02/20 16:12	7440-39-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-11, 0.3-4.5' **Lab ID: 40215420005** Collected: 09/23/20 11:14 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**<0.11**	mg/kg	0.72	0.11	6.667	09/29/20 06:57	10/02/20 16:12	7440-43-9	D3
Chromium	**14.9**	mg/kg	2.2	0.66	6.667	09/29/20 06:57	10/02/20 16:12	7440-47-3	
Copper	**26.7**	mg/kg	1.9	0.58	6.667	09/29/20 06:57	10/02/20 16:12	7440-50-8	
Lead	**28.5**	mg/kg	0.72	0.20	6.667	09/29/20 06:57	10/02/20 16:12	7439-92-1	
Selenium	**0.55J**	mg/kg	0.72	0.20	6.667	09/29/20 06:57	10/02/20 16:12	7782-49-2	D3
Silver	**<0.10**	mg/kg	0.36	0.10	6.667	09/29/20 06:57	10/02/20 16:12	7440-22-4	D3
Zinc	**110**	mg/kg	25.1	7.5	6.667	09/29/20 06:57	10/02/20 16:12	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.028J**	mg/kg	0.038	0.011	1	10/07/20 09:07	10/08/20 10:09	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**<23.8**	ug/kg	184	23.8	10	10/02/20 08:09	10/02/20 14:51	83-32-9	
Acenaphthylene	**111J**	ug/kg	184	23.1	10	10/02/20 08:09	10/02/20 14:51	208-96-8	
Anthracene	**291**	ug/kg	184	22.8	10	10/02/20 08:09	10/02/20 14:51	120-12-7	
Benzo(a)anthracene	**490**	ug/kg	184	23.7	10	10/02/20 08:09	10/02/20 14:51	56-55-3	
Benzo(a)pyrene	**546**	ug/kg	184	20.9	10	10/02/20 08:09	10/02/20 14:51	50-32-8	
Benzo(b)fluoranthene	**746**	ug/kg	184	25.5	10	10/02/20 08:09	10/02/20 14:51	205-99-2	
Benzo(g,h,i)perylene	**263**	ug/kg	184	32.2	10	10/02/20 08:09	10/02/20 14:51	191-24-2	
Benzo(k)fluoranthene	**293**	ug/kg	184	23.5	10	10/02/20 08:09	10/02/20 14:51	207-08-9	
Chrysene	**546**	ug/kg	184	34.6	10	10/02/20 08:09	10/02/20 14:51	218-01-9	
Dibenz(a,h)anthracene	**77.2J**	ug/kg	184	25.4	10	10/02/20 08:09	10/02/20 14:51	53-70-3	
Fluoranthene	**1240**	ug/kg	184	21.7	10	10/02/20 08:09	10/02/20 14:51	206-44-0	
Fluorene	**56.4J**	ug/kg	184	22.0	10	10/02/20 08:09	10/02/20 14:51	86-73-7	
Indeno(1,2,3-cd)pyrene	**251**	ug/kg	184	38.3	10	10/02/20 08:09	10/02/20 14:51	193-39-5	
1-Methylnaphthalene	**<26.8**	ug/kg	184	26.8	10	10/02/20 08:09	10/02/20 14:51	90-12-0	
2-Methylnaphthalene	**<26.9**	ug/kg	184	26.9	10	10/02/20 08:09	10/02/20 14:51	91-57-6	
Naphthalene	**29.4J**	ug/kg	184	17.9	10	10/02/20 08:09	10/02/20 14:51	91-20-3	
Phenanthrene	**849**	ug/kg	184	21.0	10	10/02/20 08:09	10/02/20 14:51	85-01-8	
Pyrene	**854**	ug/kg	184	27.0	10	10/02/20 08:09	10/02/20 14:51	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	60	%	17-100		10	10/02/20 08:09	10/02/20 14:51	321-60-8	
Terphenyl-d14 (S)	67	%	17-98		10	10/02/20 08:09	10/02/20 14:51	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	75-35-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-11, 0.3-4.5' **Lab ID: 40215420005** Collected: 09/23/20 11:14 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/02/20 11:15	10/05/20 21:10	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/02/20 11:15	10/05/20 21:10	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/02/20 11:15	10/05/20 21:10	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/02/20 11:15	10/05/20 21:10	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 21:10	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 21:10	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 21:10	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/02/20 11:15	10/05/20 21:10	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 21:10	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/02/20 11:15	10/05/20 21:10	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/02/20 11:15	10/05/20 21:10	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/02/20 11:15	10/05/20 21:10	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/02/20 11:15	10/05/20 21:10	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/02/20 11:15	10/05/20 21:10	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 21:10	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/02/20 11:15	10/05/20 21:10	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/02/20 11:15	10/05/20 21:10	75-09-2	W
Naphthalene	**<27.3**	ug/kg	91.0	27.3	1	10/02/20 11:15	10/05/20 21:10	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/02/20 11:15	10/05/20 21:10	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/02/20 11:15	10/05/20 21:10	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	75-01-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-11, 0.3-4.5' **Lab ID: 40215420005** Collected: 09/23/20 11:14 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/02/20 11:15	10/05/20 21:10	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/02/20 11:15	10/05/20 21:10	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/02/20 11:15	10/05/20 21:10	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:10	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 21:10	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 21:10	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 21:10	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/02/20 11:15	10/05/20 21:10	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/02/20 11:15	10/05/20 21:10	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	91	%	58-145		1	10/02/20 11:15	10/05/20 21:10	1868-53-7	
Toluene-d8 (S)	93	%	56-140		1	10/02/20 11:15	10/05/20 21:10	2037-26-5	
4-Bromofluorobenzene (S)	79	%	52-137		1	10/02/20 11:15	10/05/20 21:10	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**9.1**	%	0.10	0.10	1		09/28/20 14:20		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-3, 0.1-4.0' **Lab ID: 40215420006** Collected: 09/24/20 08:36 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<6.2**	ug/kg	20.6	6.2	10	10/01/20 15:08	10/06/20 17:43	309-00-2	
alpha-BHC	**<2.7**	ug/kg	8.8	2.7	10	10/01/20 15:08	10/06/20 17:43	319-84-6	
beta-BHC	**<4.4**	ug/kg	14.8	4.4	10	10/01/20 15:08	10/06/20 17:43	319-85-7	
delta-BHC	**<3.4**	ug/kg	11.3	3.4	10	10/01/20 15:08	10/06/20 17:43	319-86-8	
gamma-BHC (Lindane)	**<2.5**	ug/kg	8.2	2.5	10	10/01/20 15:08	10/06/20 17:43	58-89-9	
Chlordane (Technical)	**<63.8**	ug/kg	212	63.8	10	10/01/20 15:08	10/06/20 17:43	57-74-9	
alpha-Chlordane	**<2.7**	ug/kg	8.9	2.7	10	10/01/20 15:08	10/06/20 17:43	5103-71-9	
gamma-Chlordane	**<6.2**	ug/kg	20.7	6.2	10	10/01/20 15:08	10/06/20 17:43	5103-74-2	
4,4'-DDD	**9.7J**	ug/kg	14.9	4.5	10	10/01/20 15:08	10/06/20 17:43	72-54-8	
4,4'-DDE	**11.5J**	ug/kg	14.0	4.2	10	10/01/20 15:08	10/06/20 17:43	72-55-9	
4,4'-DDT	**<9.4**	ug/kg	31.4	9.4	10	10/01/20 15:08	10/06/20 17:43	50-29-3	
Dieldrin	**5.2J**	ug/kg	13.4	4.0	10	10/01/20 15:08	10/06/20 17:43	60-57-1	
Endosulfan I	**<3.2**	ug/kg	10.8	3.2	10	10/01/20 15:08	10/06/20 17:43	959-98-8	
Endosulfan II	**<6.4**	ug/kg	21.4	6.4	10	10/01/20 15:08	10/06/20 17:43	33213-65-9	
Endosulfan sulfate	**<7.7**	ug/kg	25.8	7.7	10	10/01/20 15:08	10/06/20 17:43	1031-07-8	
Endrin	**<4.4**	ug/kg	14.7	4.4	10	10/01/20 15:08	10/06/20 17:43	72-20-8	
Endrin aldehyde	**<8.7**	ug/kg	29.0	8.7	10	10/01/20 15:08	10/06/20 17:43	7421-93-4	
Endrin ketone	**<10.7**	ug/kg	35.6	10.7	10	10/01/20 15:08	10/06/20 17:43	53494-70-5	
Heptachlor	**<4.4**	ug/kg	14.5	4.4	10	10/01/20 15:08	10/06/20 17:43	76-44-8	
Heptachlor epoxide	**<3.0**	ug/kg	9.9	3.0	10	10/01/20 15:08	10/06/20 17:43	1024-57-3	
Methoxychlor	**<63.9**	ug/kg	213	63.9	10	10/01/20 15:08	10/06/20 17:43	72-43-5	
Toxaphene	**<171**	ug/kg	570	171	10	10/01/20 15:08	10/06/20 17:43	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	94	%.	30-150		10	10/01/20 15:08	10/06/20 17:43	877-09-8	D3
Decachlorobiphenyl (S)	111	%.	30-150		10	10/01/20 15:08	10/06/20 17:43	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541								
	Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<17.7**	ug/kg	58.2	17.7	1	09/28/20 14:42	09/29/20 15:39	12674-11-2	
PCB-1221 (Aroclor 1221)	**<17.7**	ug/kg	58.2	17.7	1	09/28/20 14:42	09/29/20 15:39	11104-28-2	
PCB-1232 (Aroclor 1232)	**<17.7**	ug/kg	58.2	17.7	1	09/28/20 14:42	09/29/20 15:39	11141-16-5	
PCB-1242 (Aroclor 1242)	**22.2J**	ug/kg	58.2	17.7	1	09/28/20 14:42	09/29/20 15:39	53469-21-9	
PCB-1248 (Aroclor 1248)	**<17.7**	ug/kg	58.2	17.7	1	09/28/20 14:42	09/29/20 15:39	12672-29-6	
PCB-1254 (Aroclor 1254)	**62.6**	ug/kg	58.2	17.7	1	09/28/20 14:42	09/29/20 15:39	11097-69-1	
PCB-1260 (Aroclor 1260)	**55.9J**	ug/kg	58.2	17.7	1	09/28/20 14:42	09/29/20 15:39	11096-82-5	
PCB, Total	**141**	ug/kg	58.2	17.7	1	09/28/20 14:42	09/29/20 15:39	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	69-115		1	09/28/20 14:42	09/29/20 15:39	877-09-8	
Decachlorobiphenyl (S)	83	%	62-104		1	09/28/20 14:42	09/29/20 15:39	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**325**	mg/kg	0.98	0.29	6.667	09/29/20 06:57	10/02/20 16:18	7440-38-2	
Barium	**160**	mg/kg	0.98	0.29	6.667	09/29/20 06:57	10/02/20 16:18	7440-39-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-3, 0.1-4.0' **Lab ID: 40215420006** Collected: 09/24/20 08:36 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**1.4**	mg/kg	0.74	0.11	6.667	09/29/20 06:57	10/02/20 16:18	7440-43-9	
Chromium	**32.4**	mg/kg	2.3	0.68	6.667	09/29/20 06:57	10/02/20 16:18	7440-47-3	
Copper	**366**	mg/kg	2.0	0.60	6.667	09/29/20 06:57	10/02/20 16:18	7440-50-8	
Lead	**304**	mg/kg	0.74	0.20	6.667	09/29/20 06:57	10/02/20 16:18	7439-92-1	
Selenium	**0.59J**	mg/kg	0.74	0.20	6.667	09/29/20 06:57	10/02/20 16:18	7782-49-2	D3
Silver	**0.47**	mg/kg	0.37	0.11	6.667	09/29/20 06:57	10/02/20 16:18	7440-22-4	
Zinc	**537**	mg/kg	26.0	7.8	6.667	09/29/20 06:57	10/02/20 16:18	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.15**	mg/kg	0.037	0.011	1	10/07/20 09:07	10/08/20 10:11	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**22.9**	ug/kg	19.4	2.5	1	10/02/20 08:09	10/02/20 15:08	83-32-9	
Acenaphthylene	**24.4**	ug/kg	19.4	2.5	1	10/02/20 08:09	10/02/20 15:08	208-96-8	
Anthracene	**58.6**	ug/kg	19.4	2.4	1	10/02/20 08:09	10/02/20 15:08	120-12-7	
Benzo(a)anthracene	**172**	ug/kg	19.4	2.5	1	10/02/20 08:09	10/02/20 15:08	56-55-3	
Benzo(a)pyrene	**225**	ug/kg	19.4	2.2	1	10/02/20 08:09	10/02/20 15:08	50-32-8	
Benzo(b)fluoranthene	**339**	ug/kg	19.4	2.7	1	10/02/20 08:09	10/02/20 15:08	205-99-2	
Benzo(g,h,i)perylene	**132**	ug/kg	19.4	3.4	1	10/02/20 08:09	10/02/20 15:08	191-24-2	
Benzo(k)fluoranthene	**126**	ug/kg	19.4	2.5	1	10/02/20 08:09	10/02/20 15:08	207-08-9	
Chrysene	**228**	ug/kg	19.4	3.7	1	10/02/20 08:09	10/02/20 15:08	218-01-9	
Dibenz(a,h)anthracene	**45.4**	ug/kg	19.4	2.7	1	10/02/20 08:09	10/02/20 15:08	53-70-3	
Fluoranthene	**318**	ug/kg	19.4	2.3	1	10/02/20 08:09	10/02/20 15:08	206-44-0	
Fluorene	**27.6**	ug/kg	19.4	2.3	1	10/02/20 08:09	10/02/20 15:08	86-73-7	
Indeno(1,2,3-cd)pyrene	**117**	ug/kg	19.4	4.1	1	10/02/20 08:09	10/02/20 15:08	193-39-5	
1-Methylnaphthalene	**35.7**	ug/kg	19.4	2.8	1	10/02/20 08:09	10/02/20 15:08	90-12-0	
2-Methylnaphthalene	**52.1**	ug/kg	19.4	2.8	1	10/02/20 08:09	10/02/20 15:08	91-57-6	
Naphthalene	**118**	ug/kg	19.4	1.9	1	10/02/20 08:09	10/02/20 15:08	91-20-3	
Phenanthrene	**220**	ug/kg	19.4	2.2	1	10/02/20 08:09	10/02/20 15:08	85-01-8	
Pyrene	**236**	ug/kg	19.4	2.9	1	10/02/20 08:09	10/02/20 15:08	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	61	%	17-100		1	10/02/20 08:09	10/02/20 15:08	321-60-8	
Terphenyl-d14 (S)	65	%	17-98		1	10/02/20 08:09	10/02/20 15:08	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	75-35-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-3, 0.1-4.0' **Lab ID: 40215420006** Collected: 09/24/20 08:36 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/02/20 11:15	10/05/20 21:27	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/02/20 11:15	10/05/20 21:27	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/02/20 11:15	10/05/20 21:27	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/02/20 11:15	10/05/20 21:27	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	142-28-9	W
1,4-Dichlorobenzene	**53.0J**	ug/kg	69.8	29.1	1	10/02/20 11:15	10/05/20 21:27	106-46-7	
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 21:27	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 21:27	106-43-4	W
Benzene	**152**	ug/kg	69.8	29.1	1	10/02/20 11:15	10/05/20 21:27	71-43-2	
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 21:27	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/02/20 11:15	10/05/20 21:27	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 21:27	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/02/20 11:15	10/05/20 21:27	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/02/20 11:15	10/05/20 21:27	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/02/20 11:15	10/05/20 21:27	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/02/20 11:15	10/05/20 21:27	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/02/20 11:15	10/05/20 21:27	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 21:27	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	108-20-3	W
Ethylbenzene	**30.1J**	ug/kg	69.8	29.1	1	10/02/20 11:15	10/05/20 21:27	100-41-4	
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/02/20 11:15	10/05/20 21:27	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/02/20 11:15	10/05/20 21:27	75-09-2	W
Naphthalene	**35.4J**	ug/kg	106	31.7	1	10/02/20 11:15	10/05/20 21:27	91-20-3	
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/02/20 11:15	10/05/20 21:27	127-18-4	W
Toluene	**67.6J**	ug/kg	69.8	29.1	1	10/02/20 11:15	10/05/20 21:27	108-88-3	
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/02/20 11:15	10/05/20 21:27	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	75-01-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-3, 0.1-4.0' **Lab ID: 40215420006** Collected: 09/24/20 08:36 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/02/20 11:15	10/05/20 21:27	10061-01-5	W
m&p-Xylene	**77.2J**	ug/kg	140	58.2	1	10/02/20 11:15	10/05/20 21:27	179601-23-1	
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/02/20 11:15	10/05/20 21:27	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:27	103-65-1	W
o-Xylene	**42.1J**	ug/kg	69.8	29.1	1	10/02/20 11:15	10/05/20 21:27	95-47-6	
p-Isopropyltoluene	**38.0J**	ug/kg	83.7	29.1	1	10/02/20 11:15	10/05/20 21:27	99-87-6	
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 21:27	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 21:27	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/02/20 11:15	10/05/20 21:27	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/02/20 11:15	10/05/20 21:27	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	84	%	58-145		1	10/02/20 11:15	10/05/20 21:27	1868-53-7	
Toluene-d8 (S)	88	%	56-140		1	10/02/20 11:15	10/05/20 21:27	2037-26-5	
4-Bromofluorobenzene (S)	76	%	52-137		1	10/02/20 11:15	10/05/20 21:27	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**14.0**	%	0.10	0.10	1		09/28/20 14:20		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-2, 0.2-4.5' UPPER **Lab ID: 40215420007** Collected: 09/24/20 10:40 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<5.6**	ug/kg	18.8	5.6	10	10/01/20 15:08	10/02/20 16:22	309-00-2	
alpha-BHC	**<2.4**	ug/kg	8.0	2.4	10	10/01/20 15:08	10/02/20 16:22	319-84-6	
beta-BHC	**<4.1**	ug/kg	13.5	4.1	10	10/01/20 15:08	10/02/20 16:22	319-85-7	
delta-BHC	**<3.1**	ug/kg	10.3	3.1	10	10/01/20 15:08	10/02/20 16:22	319-86-8	
gamma-BHC (Lindane)	**<2.2**	ug/kg	7.4	2.2	10	10/01/20 15:08	10/02/20 16:22	58-89-9	
Chlordane (Technical)	**<58.1**	ug/kg	194	58.1	10	10/01/20 15:08	10/02/20 16:22	57-74-9	
alpha-Chlordane	**<2.4**	ug/kg	8.1	2.4	10	10/01/20 15:08	10/02/20 16:22	5103-71-9	
gamma-Chlordane	**<5.7**	ug/kg	18.9	5.7	10	10/01/20 15:08	10/02/20 16:22	5103-74-2	
4,4'-DDD	**<4.1**	ug/kg	13.6	4.1	10	10/01/20 15:08	10/02/20 16:22	72-54-8	
4,4'-DDE	**<3.8**	ug/kg	12.8	3.8	10	10/01/20 15:08	10/02/20 16:22	72-55-9	
4,4'-DDT	**<8.6**	ug/kg	28.6	8.6	10	10/01/20 15:08	10/02/20 16:22	50-29-3	
Dieldrin	**4.9J**	ug/kg	12.2	3.7	10	10/01/20 15:08	10/02/20 16:22	60-57-1	
Endosulfan I	**<2.9**	ug/kg	9.8	2.9	10	10/01/20 15:08	10/02/20 16:22	959-98-8	
Endosulfan II	**<5.8**	ug/kg	19.5	5.8	10	10/01/20 15:08	10/02/20 16:22	33213-65-9	
Endosulfan sulfate	**<7.1**	ug/kg	23.5	7.1	10	10/01/20 15:08	10/02/20 16:22	1031-07-8	
Endrin	**<4.0**	ug/kg	13.4	4.0	10	10/01/20 15:08	10/02/20 16:22	72-20-8	
Endrin aldehyde	**<7.9**	ug/kg	26.5	7.9	10	10/01/20 15:08	10/02/20 16:22	7421-93-4	
Endrin ketone	**<9.8**	ug/kg	32.5	9.8	10	10/01/20 15:08	10/02/20 16:22	53494-70-5	
Heptachlor	**<4.0**	ug/kg	13.2	4.0	10	10/01/20 15:08	10/02/20 16:22	76-44-8	
Heptachlor epoxide	**<2.7**	ug/kg	9.1	2.7	10	10/01/20 15:08	10/02/20 16:22	1024-57-3	
Methoxychlor	**<58.3**	ug/kg	194	58.3	10	10/01/20 15:08	10/02/20 16:22	72-43-5	
Toxaphene	**<156**	ug/kg	520	156	10	10/01/20 15:08	10/02/20 16:22	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	113	%.	30-150		10	10/01/20 15:08	10/02/20 16:22	877-09-8	D3
Decachlorobiphenyl (S)	124	%.	30-150		10	10/01/20 15:08	10/02/20 16:22	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541								
	Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.2**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 16:01	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.2**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 16:01	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.2**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 16:01	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.2**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 16:01	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.2**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 16:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**22.7J**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 16:01	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.2**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 16:01	11096-82-5	
PCB, Total	**22.7J**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 16:01	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	69-115		1	09/28/20 14:42	09/29/20 16:01	877-09-8	
Decachlorobiphenyl (S)	86	%	62-104		1	09/28/20 14:42	09/29/20 16:01	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**3.4**	mg/kg	0.89	0.27	6.667	09/29/20 06:57	10/02/20 16:25	7440-38-2	
Barium	**14.2**	mg/kg	0.88	0.26	6.667	09/29/20 06:57	10/02/20 16:25	7440-39-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-2, 0.2-4.5' UPPER **Lab ID: 40215420007** Collected: 09/24/20 10:40 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**<0.098**	mg/kg	0.67	0.098	6.667	09/29/20 06:57	10/02/20 16:25	7440-43-9	D3
Chromium	**7.9**	mg/kg	2.0	0.61	6.667	09/29/20 06:57	10/02/20 16:25	7440-47-3	
Copper	**17.0**	mg/kg	1.8	0.54	6.667	09/29/20 06:57	10/02/20 16:25	7440-50-8	
Lead	**26.9**	mg/kg	0.67	0.18	6.667	09/29/20 06:57	10/02/20 16:25	7439-92-1	
Selenium	**0.21J**	mg/kg	0.67	0.18	6.667	09/29/20 06:57	10/02/20 16:25	7782-49-2	D3
Silver	**<0.096**	mg/kg	0.34	0.096	6.667	09/29/20 06:57	10/02/20 16:25	7440-22-4	D3
Zinc	**75.4**	mg/kg	23.4	7.0	6.667	09/29/20 06:57	10/02/20 16:25	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**<0.011**	mg/kg	0.037	0.011	1	10/07/20 09:07	10/08/20 10:14	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**3.4J**	ug/kg	17.8	2.3	1	10/02/20 08:09	10/05/20 20:04	83-32-9	
Acenaphthylene	**9.4J**	ug/kg	17.8	2.2	1	10/02/20 08:09	10/05/20 20:04	208-96-8	
Anthracene	**15.6J**	ug/kg	17.8	2.2	1	10/02/20 08:09	10/05/20 20:04	120-12-7	
Benzo(a)anthracene	**64.1**	ug/kg	17.8	2.3	1	10/02/20 08:09	10/05/20 20:04	56-55-3	
Benzo(a)pyrene	**99.1**	ug/kg	17.8	2.0	1	10/02/20 08:09	10/05/20 20:04	50-32-8	
Benzo(b)fluoranthene	**135**	ug/kg	17.8	2.5	1	10/02/20 08:09	10/05/20 20:04	205-99-2	
Benzo(g,h,i)perylene	**88.7**	ug/kg	17.8	3.1	1	10/02/20 08:09	10/05/20 20:04	191-24-2	
Benzo(k)fluoranthene	**59.0**	ug/kg	17.8	2.3	1	10/02/20 08:09	10/05/20 20:04	207-08-9	
Chrysene	**89.2**	ug/kg	17.8	3.4	1	10/02/20 08:09	10/05/20 20:04	218-01-9	
Dibenz(a,h)anthracene	**18.5**	ug/kg	17.8	2.5	1	10/02/20 08:09	10/05/20 20:04	53-70-3	
Fluoranthene	**131**	ug/kg	17.8	2.1	1	10/02/20 08:09	10/05/20 20:04	206-44-0	
Fluorene	**4.9J**	ug/kg	17.8	2.1	1	10/02/20 08:09	10/05/20 20:04	86-73-7	
Indeno(1,2,3-cd)pyrene	**67.9**	ug/kg	17.8	3.7	1	10/02/20 08:09	10/05/20 20:04	193-39-5	
1-Methylnaphthalene	**16.0J**	ug/kg	17.8	2.6	1	10/02/20 08:09	10/05/20 20:04	90-12-0	
2-Methylnaphthalene	**23.0**	ug/kg	17.8	2.6	1	10/02/20 08:09	10/05/20 20:04	91-57-6	
Naphthalene	**19.3**	ug/kg	17.8	1.7	1	10/02/20 08:09	10/05/20 20:04	91-20-3	
Phenanthrene	**46.6**	ug/kg	17.8	2.0	1	10/02/20 08:09	10/05/20 20:04	85-01-8	
Pyrene	**100**	ug/kg	17.8	2.6	1	10/02/20 08:09	10/05/20 20:04	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%	17-100		1	10/02/20 08:09	10/05/20 20:04	321-60-8	
Terphenyl-d14 (S)	68	%	17-98		1	10/02/20 08:09	10/05/20 20:04	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	75-35-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-2, 0.2-4.5' UPPER **Lab ID: 40215420007** Collected: 09/24/20 10:40 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/02/20 11:15	10/05/20 21:44	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/02/20 11:15	10/05/20 21:44	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/02/20 11:15	10/05/20 21:44	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/02/20 11:15	10/05/20 21:44	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 21:44	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 21:44	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 21:44	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/02/20 11:15	10/05/20 21:44	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 21:44	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/02/20 11:15	10/05/20 21:44	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/02/20 11:15	10/05/20 21:44	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/02/20 11:15	10/05/20 21:44	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/02/20 11:15	10/05/20 21:44	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/02/20 11:15	10/05/20 21:44	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 21:44	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/02/20 11:15	10/05/20 21:44	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/02/20 11:15	10/05/20 21:44	75-09-2	W
Naphthalene	**<27.3**	ug/kg	91.0	27.3	1	10/02/20 11:15	10/05/20 21:44	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/02/20 11:15	10/05/20 21:44	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/02/20 11:15	10/05/20 21:44	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	75-01-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-2, 0.2-4.5' UPPER **Lab ID: 40215420007** Collected: 09/24/20 10:40 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/02/20 11:15	10/05/20 21:44	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/02/20 11:15	10/05/20 21:44	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/02/20 11:15	10/05/20 21:44	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 21:44	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 21:44	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 21:44	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 21:44	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/02/20 11:15	10/05/20 21:44	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/02/20 11:15	10/05/20 21:44	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	91	%	58-145		1	10/02/20 11:15	10/05/20 21:44	1868-53-7	
Toluene-d8 (S)	96	%	56-140		1	10/02/20 11:15	10/05/20 21:44	2037-26-5	
4-Bromofluorobenzene (S)	81	%	52-137		1	10/02/20 11:15	10/05/20 21:44	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**6.1**	%	0.10	0.10	1		09/28/20 14:20		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-2, 0.2-4.5' LOWER **Lab ID: 40215420008** Collected: 09/24/20 10:40 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<29.4**	ug/kg	97.8	29.4	50	10/01/20 15:08	10/02/20 20:04	309-00-2	
alpha-BHC	**<12.6**	ug/kg	41.9	12.6	50	10/01/20 15:08	10/02/20 20:04	319-84-6	
beta-BHC	**<21.1**	ug/kg	70.2	21.1	50	10/01/20 15:08	10/02/20 20:04	319-85-7	
delta-BHC	**<16.0**	ug/kg	53.4	16.0	50	10/01/20 15:08	10/02/20 20:04	319-86-8	
gamma-BHC (Lindane)	**<11.6**	ug/kg	38.8	11.6	50	10/01/20 15:08	10/02/20 20:04	58-89-9	
Chlordane (Technical)	**<303**	ug/kg	1010	303	50	10/01/20 15:08	10/02/20 20:04	57-74-9	
alpha-Chlordane	**<12.7**	ug/kg	42.2	12.7	50	10/01/20 15:08	10/02/20 20:04	5103-71-9	
gamma-Chlordane	**<29.5**	ug/kg	98.2	29.5	50	10/01/20 15:08	10/02/20 20:04	5103-74-2	
4,4'-DDD	**<21.3**	ug/kg	70.8	21.3	50	10/01/20 15:08	10/02/20 20:04	72-54-8	
4,4'-DDE	**<19.9**	ug/kg	66.4	19.9	50	10/01/20 15:08	10/02/20 20:04	72-55-9	
4,4'-DDT	**<44.8**	ug/kg	149	44.8	50	10/01/20 15:08	10/02/20 20:04	50-29-3	
Dieldrin	**<19.1**	ug/kg	63.6	19.1	50	10/01/20 15:08	10/02/20 20:04	60-57-1	
Endosulfan I	**<15.3**	ug/kg	51.0	15.3	50	10/01/20 15:08	10/02/20 20:04	959-98-8	
Endosulfan II	**<30.4**	ug/kg	101	30.4	50	10/01/20 15:08	10/02/20 20:04	33213-65-9	
Endosulfan sulfate	**<36.7**	ug/kg	122	36.7	50	10/01/20 15:08	10/02/20 20:04	1031-07-8	
Endrin	**<20.9**	ug/kg	69.7	20.9	50	10/01/20 15:08	10/02/20 20:04	72-20-8	
Endrin aldehyde	**<41.4**	ug/kg	138	41.4	50	10/01/20 15:08	10/02/20 20:04	7421-93-4	
Endrin ketone	**<50.8**	ug/kg	169	50.8	50	10/01/20 15:08	10/02/20 20:04	53494-70-5	
Heptachlor	**<20.7**	ug/kg	68.8	20.7	50	10/01/20 15:08	10/02/20 20:04	76-44-8	
Heptachlor epoxide	**<14.2**	ug/kg	47.2	14.2	50	10/01/20 15:08	10/02/20 20:04	1024-57-3	
Methoxychlor	**<303**	ug/kg	1010	303	50	10/01/20 15:08	10/02/20 20:04	72-43-5	
Toxaphene	**<813**	ug/kg	2710	813	50	10/01/20 15:08	10/02/20 20:04	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	132	%.	30-150		50	10/01/20 15:08	10/02/20 20:04	877-09-8	D3,v1
Decachlorobiphenyl (S)	154	%.	30-150		50	10/01/20 15:08	10/02/20 20:04	2051-24-3	S4
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541								
	Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.7**	ug/kg	55.0	16.7	1	09/28/20 14:42	09/29/20 19:17	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.7**	ug/kg	55.0	16.7	1	09/28/20 14:42	09/29/20 19:17	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.7**	ug/kg	55.0	16.7	1	09/28/20 14:42	09/29/20 19:17	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.7**	ug/kg	55.0	16.7	1	09/28/20 14:42	09/29/20 19:17	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.7**	ug/kg	55.0	16.7	1	09/28/20 14:42	09/29/20 19:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**40.1J**	ug/kg	55.0	16.7	1	09/28/20 14:42	09/29/20 19:17	11097-69-1	
PCB-1260 (Aroclor 1260)	**22.0J**	ug/kg	55.0	16.7	1	09/28/20 14:42	09/29/20 19:17	11096-82-5	
PCB, Total	**62.1**	ug/kg	55.0	16.7	1	09/28/20 14:42	09/29/20 19:17	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	69-115		1	09/28/20 14:42	09/29/20 19:17	877-09-8	
Decachlorobiphenyl (S)	78	%	62-104		1	09/28/20 14:42	09/29/20 19:17	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**6.4**	mg/kg	0.95	0.28	6.667	09/29/20 06:57	10/02/20 16:32	7440-38-2	
Barium	**255**	mg/kg	0.94	0.28	6.667	09/29/20 06:57	10/02/20 16:32	7440-39-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-2, 0.2-4.5' LOWER **Lab ID: 40215420008** Collected: 09/24/20 10:40 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**0.42J**	mg/kg	0.72	0.10	6.667	09/29/20 06:57	10/02/20 16:32	7440-43-9	D3
Chromium	**10.0**	mg/kg	2.2	0.65	6.667	09/29/20 06:57	10/02/20 16:32	7440-47-3	
Copper	**40.3**	mg/kg	1.9	0.58	6.667	09/29/20 06:57	10/02/20 16:32	7440-50-8	
Lead	**99.3**	mg/kg	0.72	0.19	6.667	09/29/20 06:57	10/02/20 16:32	7439-92-1	
Selenium	**0.78**	mg/kg	0.72	0.20	6.667	09/29/20 06:57	10/02/20 16:32	7782-49-2	
Silver	**0.24J**	mg/kg	0.36	0.10	6.667	09/29/20 06:57	10/02/20 16:32	7440-22-4	D3
Zinc	**82.1**	mg/kg	25.0	7.5	6.667	09/29/20 06:57	10/02/20 16:32	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.069**	mg/kg	0.038	0.011	1	10/07/20 09:07	10/08/20 10:16	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**104J**	ug/kg	184	23.8	10	10/02/20 08:09	10/05/20 18:04	83-32-9	
Acenaphthylene	**145J**	ug/kg	184	23.2	10	10/02/20 08:09	10/05/20 18:04	208-96-8	
Anthracene	**356**	ug/kg	184	22.8	10	10/02/20 08:09	10/05/20 18:04	120-12-7	
Benzo(a)anthracene	**730**	ug/kg	184	23.7	10	10/02/20 08:09	10/05/20 18:04	56-55-3	
Benzo(a)pyrene	**909**	ug/kg	184	20.9	10	10/02/20 08:09	10/05/20 18:04	50-32-8	
Benzo(b)fluoranthene	**1090**	ug/kg	184	25.5	10	10/02/20 08:09	10/05/20 18:04	205-99-2	
Benzo(g,h,i)perylene	**673**	ug/kg	184	32.2	10	10/02/20 08:09	10/05/20 18:04	191-24-2	
Benzo(k)fluoranthene	**478**	ug/kg	184	23.5	10	10/02/20 08:09	10/05/20 18:04	207-08-9	
Chrysene	**878**	ug/kg	184	34.6	10	10/02/20 08:09	10/05/20 18:04	218-01-9	
Dibenz(a,h)anthracene	**172J**	ug/kg	184	25.4	10	10/02/20 08:09	10/05/20 18:04	53-70-3	
Fluoranthene	**1540**	ug/kg	184	21.7	10	10/02/20 08:09	10/05/20 18:04	206-44-0	
Fluorene	**182J**	ug/kg	184	22.0	10	10/02/20 08:09	10/05/20 18:04	86-73-7	
Indeno(1,2,3-cd)pyrene	**501**	ug/kg	184	38.3	10	10/02/20 08:09	10/05/20 18:04	193-39-5	
1-Methylnaphthalene	**163J**	ug/kg	184	26.8	10	10/02/20 08:09	10/05/20 18:04	90-12-0	
2-Methylnaphthalene	**151J**	ug/kg	184	26.9	10	10/02/20 08:09	10/05/20 18:04	91-57-6	
Naphthalene	**182J**	ug/kg	184	17.9	10	10/02/20 08:09	10/05/20 18:04	91-20-3	
Phenanthrene	**1020**	ug/kg	184	21.0	10	10/02/20 08:09	10/05/20 18:04	85-01-8	
Pyrene	**1190**	ug/kg	184	27.0	10	10/02/20 08:09	10/05/20 18:04	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52	%	17-100		10	10/02/20 08:09	10/05/20 18:04	321-60-8	
Terphenyl-d14 (S)	57	%	17-98		10	10/02/20 08:09	10/05/20 18:04	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	75-35-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-2, 0.2-4.5' LOWER **Lab ID: 40215420008** Collected: 09/24/20 10:40 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/02/20 11:15	10/05/20 22:01	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/02/20 11:15	10/05/20 22:01	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/02/20 11:15	10/05/20 22:01	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/02/20 11:15	10/05/20 22:01	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 22:01	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 22:01	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 22:01	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/02/20 11:15	10/05/20 22:01	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:01	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/02/20 11:15	10/05/20 22:01	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/02/20 11:15	10/05/20 22:01	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/02/20 11:15	10/05/20 22:01	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/02/20 11:15	10/05/20 22:01	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/02/20 11:15	10/05/20 22:01	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:01	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/02/20 11:15	10/05/20 22:01	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/02/20 11:15	10/05/20 22:01	75-09-2	W
Naphthalene	**69.0J**	ug/kg	100	30.0	1	10/02/20 11:15	10/05/20 22:01	91-20-3	
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/02/20 11:15	10/05/20 22:01	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/02/20 11:15	10/05/20 22:01	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	75-01-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-2, 0.2-4.5' LOWER **Lab ID: 40215420008** Collected: 09/24/20 10:40 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/02/20 11:15	10/05/20 22:01	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/02/20 11:15	10/05/20 22:01	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/02/20 11:15	10/05/20 22:01	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:01	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:01	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:01	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 22:01	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/02/20 11:15	10/05/20 22:01	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/02/20 11:15	10/05/20 22:01	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	97	%	58-145		1	10/02/20 11:15	10/05/20 22:01	1868-53-7	
Toluene-d8 (S)	101	%	56-140		1	10/02/20 11:15	10/05/20 22:01	2037-26-5	
4-Bromofluorobenzene (S)	86	%	52-137		1	10/02/20 11:15	10/05/20 22:01	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**9.1**	%	0.10	0.10	1		09/28/20 14:20		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-8, 0.3-6.5' **Lab ID: 40215420009** Collected: 09/24/20 10:55 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<29.2**	ug/kg	97.1	29.2	50	10/01/20 15:08	10/02/20 20:23	309-00-2	
alpha-BHC	**<12.5**	ug/kg	41.6	12.5	50	10/01/20 15:08	10/02/20 20:23	319-84-6	
beta-BHC	**<20.9**	ug/kg	69.7	20.9	50	10/01/20 15:08	10/02/20 20:23	319-85-7	
delta-BHC	**<15.9**	ug/kg	53.0	15.9	50	10/01/20 15:08	10/02/20 20:23	319-86-8	
gamma-BHC (Lindane)	**<11.6**	ug/kg	38.5	11.6	50	10/01/20 15:08	10/02/20 20:23	58-89-9	
Chlordane (Technical)	**<300**	ug/kg	1000	300	50	10/01/20 15:08	10/02/20 20:23	57-74-9	
alpha-Chlordane	**<12.6**	ug/kg	41.9	12.6	50	10/01/20 15:08	10/02/20 20:23	5103-71-9	
gamma-Chlordane	**<29.3**	ug/kg	97.5	29.3	50	10/01/20 15:08	10/02/20 20:23	5103-74-2	
4,4'-DDD	**<21.1**	ug/kg	70.2	21.1	50	10/01/20 15:08	10/02/20 20:23	72-54-8	
4,4'-DDE	**<19.8**	ug/kg	65.9	19.8	50	10/01/20 15:08	10/02/20 20:23	72-55-9	
4,4'-DDT	**<44.4**	ug/kg	148	44.4	50	10/01/20 15:08	10/02/20 20:23	50-29-3	
Dieldrin	**<19.0**	ug/kg	63.2	19.0	50	10/01/20 15:08	10/02/20 20:23	60-57-1	
Endosulfan I	**<15.2**	ug/kg	50.6	15.2	50	10/01/20 15:08	10/02/20 20:23	959-98-8	
Endosulfan II	**<30.2**	ug/kg	101	30.2	50	10/01/20 15:08	10/02/20 20:23	33213-65-9	
Endosulfan sulfate	**<36.5**	ug/kg	121	36.5	50	10/01/20 15:08	10/02/20 20:23	1031-07-8	
Endrin	**<20.8**	ug/kg	69.1	20.8	50	10/01/20 15:08	10/02/20 20:23	72-20-8	
Endrin aldehyde	**<41.0**	ug/kg	137	41.0	50	10/01/20 15:08	10/02/20 20:23	7421-93-4	
Endrin ketone	**<50.4**	ug/kg	168	50.4	50	10/01/20 15:08	10/02/20 20:23	53494-70-5	
Heptachlor	**<20.5**	ug/kg	68.2	20.5	50	10/01/20 15:08	10/02/20 20:23	76-44-8	
Heptachlor epoxide	**<14.1**	ug/kg	46.8	14.1	50	10/01/20 15:08	10/02/20 20:23	1024-57-3	
Methoxychlor	**<301**	ug/kg	1000	301	50	10/01/20 15:08	10/02/20 20:23	72-43-5	
Toxaphene	**<807**	ug/kg	2690	807	50	10/01/20 15:08	10/02/20 20:23	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	139	%.	30-150		50	10/01/20 15:08	10/02/20 20:23	877-09-8	D3,v1
Decachlorobiphenyl (S)	150	%.	30-150		50	10/01/20 15:08	10/02/20 20:23	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541								
	Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.7**	ug/kg	54.7	16.7	1	09/28/20 14:42	09/29/20 17:06	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.7**	ug/kg	54.7	16.7	1	09/28/20 14:42	09/29/20 17:06	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.7**	ug/kg	54.7	16.7	1	09/28/20 14:42	09/29/20 17:06	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.7**	ug/kg	54.7	16.7	1	09/28/20 14:42	09/29/20 17:06	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.7**	ug/kg	54.7	16.7	1	09/28/20 14:42	09/29/20 17:06	12672-29-6	
PCB-1254 (Aroclor 1254)	**47.4J**	ug/kg	54.7	16.7	1	09/28/20 14:42	09/29/20 17:06	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.7**	ug/kg	54.7	16.7	1	09/28/20 14:42	09/29/20 17:06	11096-82-5	
PCB, Total	**47.4J**	ug/kg	54.7	16.7	1	09/28/20 14:42	09/29/20 17:06	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	69-115		1	09/28/20 14:42	09/29/20 17:06	877-09-8	
Decachlorobiphenyl (S)	84	%	62-104		1	09/28/20 14:42	09/29/20 17:06	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**2.8**	mg/kg	0.94	0.28	6.667	09/29/20 06:57	10/02/20 16:39	7440-38-2	
Barium	**26.4**	mg/kg	0.93	0.28	6.667	09/29/20 06:57	10/02/20 16:39	7440-39-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-8, 0.3-6.5' **Lab ID: 40215420009** Collected: 09/24/20 10:55 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**0.14J**	mg/kg	0.71	0.10	6.667	09/29/20 06:57	10/02/20 16:39	7440-43-9	D3
Chromium	**11.5**	mg/kg	2.2	0.65	6.667	09/29/20 06:57	10/02/20 16:39	7440-47-3	
Copper	**20.5**	mg/kg	1.9	0.57	6.667	09/29/20 06:57	10/02/20 16:39	7440-50-8	
Lead	**33.5**	mg/kg	0.71	0.19	6.667	09/29/20 06:57	10/02/20 16:39	7439-92-1	
Selenium	**0.36J**	mg/kg	0.71	0.19	6.667	09/29/20 06:57	10/02/20 16:39	7782-49-2	D3
Silver	**<0.10**	mg/kg	0.35	0.10	6.667	09/29/20 06:57	10/02/20 16:39	7440-22-4	D3
Zinc	**119**	mg/kg	24.7	7.4	6.667	09/29/20 06:57	10/02/20 16:39	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.044**	mg/kg	0.036	0.010	1	10/07/20 09:07	10/08/20 10:18	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**9.3J**	ug/kg	36.5	4.7	2	10/02/20 08:09	10/05/20 19:13	83-32-9	
Acenaphthylene	**105**	ug/kg	36.5	4.6	2	10/02/20 08:09	10/05/20 19:13	208-96-8	
Anthracene	**82.9**	ug/kg	36.5	4.5	2	10/02/20 08:09	10/05/20 19:13	120-12-7	
Benzo(a)anthracene	**296**	ug/kg	36.5	4.7	2	10/02/20 08:09	10/05/20 19:13	56-55-3	
Benzo(a)pyrene	**434**	ug/kg	36.5	4.1	2	10/02/20 08:09	10/05/20 19:13	50-32-8	
Benzo(b)fluoranthene	**525**	ug/kg	36.5	5.1	2	10/02/20 08:09	10/05/20 19:13	205-99-2	
Benzo(g,h,i)perylene	**289**	ug/kg	36.5	6.4	2	10/02/20 08:09	10/05/20 19:13	191-24-2	
Benzo(k)fluoranthene	**203**	ug/kg	36.5	4.7	2	10/02/20 08:09	10/05/20 19:13	207-08-9	
Chrysene	**330**	ug/kg	36.5	6.9	2	10/02/20 08:09	10/05/20 19:13	218-01-9	
Dibenz(a,h)anthracene	**70.6**	ug/kg	36.5	5.0	2	10/02/20 08:09	10/05/20 19:13	53-70-3	
Fluoranthene	**495**	ug/kg	36.5	4.3	2	10/02/20 08:09	10/05/20 19:13	206-44-0	
Fluorene	**16.3J**	ug/kg	36.5	4.4	2	10/02/20 08:09	10/05/20 19:13	86-73-7	
Indeno(1,2,3-cd)pyrene	**248**	ug/kg	36.5	7.6	2	10/02/20 08:09	10/05/20 19:13	193-39-5	
1-Methylnaphthalene	**36.9**	ug/kg	36.5	5.3	2	10/02/20 08:09	10/05/20 19:13	90-12-0	
2-Methylnaphthalene	**54.0**	ug/kg	36.5	5.3	2	10/02/20 08:09	10/05/20 19:13	91-57-6	
Naphthalene	**69.8**	ug/kg	36.5	3.6	2	10/02/20 08:09	10/05/20 19:13	91-20-3	
Phenanthrene	**167**	ug/kg	36.5	4.2	2	10/02/20 08:09	10/05/20 19:13	85-01-8	
Pyrene	**406**	ug/kg	36.5	5.4	2	10/02/20 08:09	10/05/20 19:13	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52	%	17-100		2	10/02/20 08:09	10/05/20 19:13	321-60-8	
Terphenyl-d14 (S)	50	%	17-98		2	10/02/20 08:09	10/05/20 19:13	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	75-35-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-8, 0.3-6.5' **Lab ID: 40215420009** Collected: 09/24/20 10:55 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/02/20 11:15	10/05/20 22:18	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/02/20 11:15	10/05/20 22:18	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/02/20 11:15	10/05/20 22:18	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/02/20 11:15	10/05/20 22:18	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 22:18	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 22:18	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 22:18	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/02/20 11:15	10/05/20 22:18	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:18	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/02/20 11:15	10/05/20 22:18	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/02/20 11:15	10/05/20 22:18	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/02/20 11:15	10/05/20 22:18	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/02/20 11:15	10/05/20 22:18	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/02/20 11:15	10/05/20 22:18	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:18	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/02/20 11:15	10/05/20 22:18	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/02/20 11:15	10/05/20 22:18	75-09-2	W
Naphthalene	**31.4J**	ug/kg	99.5	29.8	1	10/02/20 11:15	10/05/20 22:18	91-20-3	
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/02/20 11:15	10/05/20 22:18	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/02/20 11:15	10/05/20 22:18	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	75-01-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-8, 0.3-6.5' **Lab ID: 40215420009** Collected: 09/24/20 10:55 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/02/20 11:15	10/05/20 22:18	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/02/20 11:15	10/05/20 22:18	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/02/20 11:15	10/05/20 22:18	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:18	95-47-6	W
p-Isopropyltoluene	**84.6**	ug/kg	78.7	27.3	1	10/02/20 11:15	10/05/20 22:18	99-87-6	
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:18	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 22:18	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/02/20 11:15	10/05/20 22:18	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/02/20 11:15	10/05/20 22:18	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	62	%	58-145		1	10/02/20 11:15	10/05/20 22:18	1868-53-7	
Toluene-d8 (S)	91	%	56-140		1	10/02/20 11:15	10/05/20 22:18	2037-26-5	
4-Bromofluorobenzene (S)	78	%	52-137		1	10/02/20 11:15	10/05/20 22:18	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**8.6**	%	0.10	0.10	1		09/28/20 14:20		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-7, 0.3-5.0' **Lab ID: 40215420010** Collected: 09/24/20 11:08 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<11.3**	ug/kg	37.7	11.3	20	10/01/20 15:08	10/02/20 18:13	309-00-2	
alpha-BHC	**<4.8**	ug/kg	16.1	4.8	20	10/01/20 15:08	10/02/20 18:13	319-84-6	
beta-BHC	**<8.1**	ug/kg	27.1	8.1	20	10/01/20 15:08	10/02/20 18:13	319-85-7	
delta-BHC	**<6.2**	ug/kg	20.6	6.2	20	10/01/20 15:08	10/02/20 18:13	319-86-8	
gamma-BHC (Lindane)	**<4.5**	ug/kg	14.9	4.5	20	10/01/20 15:08	10/02/20 18:13	58-89-9	
Chlordane (Technical)	**<117**	ug/kg	388	117	20	10/01/20 15:08	10/02/20 18:13	57-74-9	
alpha-Chlordane	**<4.9**	ug/kg	16.3	4.9	20	10/01/20 15:08	10/02/20 18:13	5103-71-9	
gamma-Chlordane	**<11.4**	ug/kg	37.9	11.4	20	10/01/20 15:08	10/02/20 18:13	5103-74-2	
4,4'-DDD	**<8.2**	ug/kg	27.3	8.2	20	10/01/20 15:08	10/02/20 18:13	72-54-8	
4,4'-DDE	**<7.7**	ug/kg	25.6	7.7	20	10/01/20 15:08	10/02/20 18:13	72-55-9	
4,4'-DDT	**<17.3**	ug/kg	57.5	17.3	20	10/01/20 15:08	10/02/20 18:13	50-29-3	
Dieldrin	**<7.4**	ug/kg	24.5	7.4	20	10/01/20 15:08	10/02/20 18:13	60-57-1	
Endosulfan I	**<5.9**	ug/kg	19.7	5.9	20	10/01/20 15:08	10/02/20 18:13	959-98-8	
Endosulfan II	**<11.7**	ug/kg	39.1	11.7	20	10/01/20 15:08	10/02/20 18:13	33213-65-9	
Endosulfan sulfate	**<14.2**	ug/kg	47.2	14.2	20	10/01/20 15:08	10/02/20 18:13	1031-07-8	
Endrin	**<8.1**	ug/kg	26.9	8.1	20	10/01/20 15:08	10/02/20 18:13	72-20-8	
Endrin aldehyde	**<15.9**	ug/kg	53.1	15.9	20	10/01/20 15:08	10/02/20 18:13	7421-93-4	
Endrin ketone	**<19.6**	ug/kg	65.2	19.6	20	10/01/20 15:08	10/02/20 18:13	53494-70-5	
Heptachlor	**<8.0**	ug/kg	26.5	8.0	20	10/01/20 15:08	10/02/20 18:13	76-44-8	
Heptachlor epoxide	**<5.5**	ug/kg	18.2	5.5	20	10/01/20 15:08	10/02/20 18:13	1024-57-3	
Methoxychlor	**<117**	ug/kg	389	117	20	10/01/20 15:08	10/02/20 18:13	72-43-5	
Toxaphene	**<313**	ug/kg	1040	313	20	10/01/20 15:08	10/02/20 18:13	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	119	%.	30-150		20	10/01/20 15:08	10/02/20 18:13	877-09-8	D3,v1
Decachlorobiphenyl (S)	145	%.	30-150		20	10/01/20 15:08	10/02/20 18:13	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541								
	Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.4**	ug/kg	53.7	16.4	1	09/28/20 14:42	09/29/20 19:39	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.4**	ug/kg	53.7	16.4	1	09/28/20 14:42	09/29/20 19:39	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.4**	ug/kg	53.7	16.4	1	09/28/20 14:42	09/29/20 19:39	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.4**	ug/kg	53.7	16.4	1	09/28/20 14:42	09/29/20 19:39	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.4**	ug/kg	53.7	16.4	1	09/28/20 14:42	09/29/20 19:39	12672-29-6	
PCB-1254 (Aroclor 1254)	**27.5J**	ug/kg	53.7	16.4	1	09/28/20 14:42	09/29/20 19:39	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.4**	ug/kg	53.7	16.4	1	09/28/20 14:42	09/29/20 19:39	11096-82-5	
PCB, Total	**27.5J**	ug/kg	53.7	16.4	1	09/28/20 14:42	09/29/20 19:39	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	69-115		1	09/28/20 14:42	09/29/20 19:39	877-09-8	
Decachlorobiphenyl (S)	84	%	62-104		1	09/28/20 14:42	09/29/20 19:39	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**3.1**	mg/kg	0.92	0.28	6.667	09/29/20 06:57	10/02/20 16:46	7440-38-2	
Barium	**16.2**	mg/kg	0.92	0.28	6.667	09/29/20 06:57	10/02/20 16:46	7440-39-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-7, 0.3-5.0' **Lab ID: 40215420010** Collected: 09/24/20 11:08 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**0.11J**	mg/kg	0.70	0.10	6.667	09/29/20 06:57	10/02/20 16:46	7440-43-9	D3
Chromium	**9.2**	mg/kg	2.1	0.64	6.667	09/29/20 06:57	10/02/20 16:46	7440-47-3	
Copper	**20.8**	mg/kg	1.9	0.56	6.667	09/29/20 06:57	10/02/20 16:46	7440-50-8	
Lead	**25.1**	mg/kg	0.70	0.19	6.667	09/29/20 06:57	10/02/20 16:46	7439-92-1	
Selenium	**0.34J**	mg/kg	0.70	0.19	6.667	09/29/20 06:57	10/02/20 16:46	7782-49-2	D3
Silver	**<0.10**	mg/kg	0.35	0.10	6.667	09/29/20 06:57	10/02/20 16:46	7440-22-4	D3
Zinc	**66.8**	mg/kg	24.4	7.3	6.667	09/29/20 06:57	10/02/20 16:46	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.017J**	mg/kg	0.034	0.0098	1	10/07/20 09:07	10/08/20 10:20	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**<2.3**	ug/kg	17.9	2.3	1	10/02/20 08:09	10/05/20 20:22	83-32-9	
Acenaphthylene	**7.3J**	ug/kg	17.9	2.3	1	10/02/20 08:09	10/05/20 20:22	208-96-8	
Anthracene	**10.6J**	ug/kg	17.9	2.2	1	10/02/20 08:09	10/05/20 20:22	120-12-7	
Benzo(a)anthracene	**33.6**	ug/kg	17.9	2.3	1	10/02/20 08:09	10/05/20 20:22	56-55-3	
Benzo(a)pyrene	**58.9**	ug/kg	17.9	2.0	1	10/02/20 08:09	10/05/20 20:22	50-32-8	
Benzo(b)fluoranthene	**76.9**	ug/kg	17.9	2.5	1	10/02/20 08:09	10/05/20 20:22	205-99-2	
Benzo(g,h,i)perylene	**53.1**	ug/kg	17.9	3.1	1	10/02/20 08:09	10/05/20 20:22	191-24-2	
Benzo(k)fluoranthene	**33.2**	ug/kg	17.9	2.3	1	10/02/20 08:09	10/05/20 20:22	207-08-9	
Chrysene	**51.5**	ug/kg	17.9	3.4	1	10/02/20 08:09	10/05/20 20:22	218-01-9	
Dibenz(a,h)anthracene	**10.6J**	ug/kg	17.9	2.5	1	10/02/20 08:09	10/05/20 20:22	53-70-3	
Fluoranthene	**62.3**	ug/kg	17.9	2.1	1	10/02/20 08:09	10/05/20 20:22	206-44-0	
Fluorene	**3.7J**	ug/kg	17.9	2.1	1	10/02/20 08:09	10/05/20 20:22	86-73-7	
Indeno(1,2,3-cd)pyrene	**38.2**	ug/kg	17.9	3.7	1	10/02/20 08:09	10/05/20 20:22	193-39-5	
1-Methylnaphthalene	**20.2**	ug/kg	17.9	2.6	1	10/02/20 08:09	10/05/20 20:22	90-12-0	
2-Methylnaphthalene	**30.1**	ug/kg	17.9	2.6	1	10/02/20 08:09	10/05/20 20:22	91-57-6	
Naphthalene	**23.2**	ug/kg	17.9	1.7	1	10/02/20 08:09	10/05/20 20:22	91-20-3	
Phenanthrene	**29.0**	ug/kg	17.9	2.0	1	10/02/20 08:09	10/05/20 20:22	85-01-8	
Pyrene	**55.8**	ug/kg	17.9	2.6	1	10/02/20 08:09	10/05/20 20:22	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	73	%	17-100		1	10/02/20 08:09	10/05/20 20:22	321-60-8	
Terphenyl-d14 (S)	73	%	17-98		1	10/02/20 08:09	10/05/20 20:22	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	75-35-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-7, 0.3-5.0' **Lab ID: 40215420010** Collected: 09/24/20 11:08 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/02/20 11:15	10/05/20 22:35	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/02/20 11:15	10/05/20 22:35	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/02/20 11:15	10/05/20 22:35	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/02/20 11:15	10/05/20 22:35	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 22:35	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 22:35	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 22:35	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/02/20 11:15	10/05/20 22:35	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:35	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/02/20 11:15	10/05/20 22:35	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/02/20 11:15	10/05/20 22:35	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/02/20 11:15	10/05/20 22:35	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/02/20 11:15	10/05/20 22:35	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/02/20 11:15	10/05/20 22:35	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:35	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/02/20 11:15	10/05/20 22:35	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/02/20 11:15	10/05/20 22:35	75-09-2	W
Naphthalene	**<27.3**	ug/kg	91.0	27.3	1	10/02/20 11:15	10/05/20 22:35	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/02/20 11:15	10/05/20 22:35	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/02/20 11:15	10/05/20 22:35	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	75-01-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-7, 0.3-5.0' **Lab ID: 40215420010** Collected: 09/24/20 11:08 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/02/20 11:15	10/05/20 22:35	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/02/20 11:15	10/05/20 22:35	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/02/20 11:15	10/05/20 22:35	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:35	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:35	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:35	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 22:35	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/02/20 11:15	10/05/20 22:35	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/02/20 11:15	10/05/20 22:35	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	75	%	58-145		1	10/02/20 11:15	10/05/20 22:35	1868-53-7	
Toluene-d8 (S)	77	%	56-140		1	10/02/20 11:15	10/05/20 22:35	2037-26-5	
4-Bromofluorobenzene (S)	63	%	52-137		1	10/02/20 11:15	10/05/20 22:35	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**6.6**	%	0.10	0.10	1		09/28/20 14:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-9, 0.2-4.0' **Lab ID: 40215420011** Collected: 09/24/20 11:43 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<2.9**	ug/kg	9.5	2.9	5	10/01/20 15:08	10/06/20 16:48	309-00-2	
alpha-BHC	**<1.2**	ug/kg	4.1	1.2	5	10/01/20 15:08	10/06/20 16:48	319-84-6	
beta-BHC	**<2.0**	ug/kg	6.8	2.0	5	10/01/20 15:08	10/06/20 16:48	319-85-7	
delta-BHC	**<1.6**	ug/kg	5.2	1.6	5	10/01/20 15:08	10/06/20 16:48	319-86-8	
gamma-BHC (Lindane)	**<1.1**	ug/kg	3.8	1.1	5	10/01/20 15:08	10/06/20 16:48	58-89-9	
Chlordane (Technical)	**<29.4**	ug/kg	97.9	29.4	5	10/01/20 15:08	10/06/20 16:48	57-74-9	
alpha-Chlordane	**<1.2**	ug/kg	4.1	1.2	5	10/01/20 15:08	10/06/20 16:48	5103-71-9	
gamma-Chlordane	**<2.9**	ug/kg	9.5	2.9	5	10/01/20 15:08	10/06/20 16:48	5103-74-2	
4,4'-DDD	**<2.1**	ug/kg	6.9	2.1	5	10/01/20 15:08	10/06/20 16:48	72-54-8	
4,4'-DDE	**2.7J**	ug/kg	6.5	1.9	5	10/01/20 15:08	10/06/20 16:48	72-55-9	
4,4'-DDT	**<4.3**	ug/kg	14.5	4.3	5	10/01/20 15:08	10/06/20 16:48	50-29-3	
Dieldrin	**<1.9**	ug/kg	6.2	1.9	5	10/01/20 15:08	10/06/20 16:48	60-57-1	
Endosulfan I	**<1.5**	ug/kg	5.0	1.5	5	10/01/20 15:08	10/06/20 16:48	959-98-8	
Endosulfan II	**<3.0**	ug/kg	9.8	3.0	5	10/01/20 15:08	10/06/20 16:48	33213-65-9	
Endosulfan sulfate	**<3.6**	ug/kg	11.9	3.6	5	10/01/20 15:08	10/06/20 16:48	1031-07-8	
Endrin	**<2.0**	ug/kg	6.8	2.0	5	10/01/20 15:08	10/06/20 16:48	72-20-8	
Endrin aldehyde	**<4.0**	ug/kg	13.4	4.0	5	10/01/20 15:08	10/06/20 16:48	7421-93-4	
Endrin ketone	**<4.9**	ug/kg	16.4	4.9	5	10/01/20 15:08	10/06/20 16:48	53494-70-5	
Heptachlor	**<2.0**	ug/kg	6.7	2.0	5	10/01/20 15:08	10/06/20 16:48	76-44-8	
Heptachlor epoxide	**3.6J**	ug/kg	4.6	1.4	5	10/01/20 15:08	10/06/20 16:48	1024-57-3	
Methoxychlor	**<29.5**	ug/kg	98.1	29.5	5	10/01/20 15:08	10/06/20 16:48	72-43-5	
Toxaphene	**<79.0**	ug/kg	263	79.0	5	10/01/20 15:08	10/06/20 16:48	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	96	%.	30-150		5	10/01/20 15:08	10/06/20 16:48	877-09-8	D3
Decachlorobiphenyl (S)	115	%.	30-150		5	10/01/20 15:08	10/06/20 16:48	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541								
	Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.2**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 17:50	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.2**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 17:50	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.2**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 17:50	11141-16-5	
PCB-1242 (Aroclor 1242)	**507**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 17:50	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.2**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 17:50	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.2**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 17:50	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.2**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 17:50	11096-82-5	
PCB, Total	**507**	ug/kg	53.3	16.2	1	09/28/20 14:42	09/29/20 17:50	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	69-115		1	09/28/20 14:42	09/29/20 17:50	877-09-8	
Decachlorobiphenyl (S)	84	%	62-104		1	09/28/20 14:42	09/29/20 17:50	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**2.0**	mg/kg	0.90	0.27	6.667	09/29/20 06:57	10/02/20 16:52	7440-38-2	
Barium	**13.4**	mg/kg	0.89	0.27	6.667	09/29/20 06:57	10/02/20 16:52	7440-39-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-9, 0.2-4.0' **Lab ID: 40215420011** Collected: 09/24/20 11:43 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**<0.099**	mg/kg	0.68	0.099	6.667	09/29/20 06:57	10/02/20 16:52	7440-43-9	D3
Chromium	**9.5**	mg/kg	2.1	0.62	6.667	09/29/20 06:57	10/02/20 16:52	7440-47-3	
Copper	**10**	mg/kg	1.8	0.55	6.667	09/29/20 06:57	10/02/20 16:52	7440-50-8	
Lead	**18.5**	mg/kg	0.68	0.19	6.667	09/29/20 06:57	10/02/20 16:52	7439-92-1	
Selenium	**0.34J**	mg/kg	0.68	0.19	6.667	09/29/20 06:57	10/02/20 16:52	7782-49-2	D3
Silver	**<0.097**	mg/kg	0.34	0.097	6.667	09/29/20 06:57	10/02/20 16:52	7440-22-4	D3
Zinc	**30.9**	mg/kg	23.8	7.1	6.667	09/29/20 06:57	10/02/20 16:52	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.015J**	mg/kg	0.037	0.011	1	10/07/20 09:07	10/08/20 10:23	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**<2.3**	ug/kg	17.9	2.3	1	10/02/20 08:09	10/05/20 18:56	83-32-9	
Acenaphthylene	**5.5J**	ug/kg	17.9	2.3	1	10/02/20 08:09	10/05/20 18:56	208-96-8	
Anthracene	**6.9J**	ug/kg	17.9	2.2	1	10/02/20 08:09	10/05/20 18:56	120-12-7	
Benzo(a)anthracene	**21.9**	ug/kg	17.9	2.3	1	10/02/20 08:09	10/05/20 18:56	56-55-3	
Benzo(a)pyrene	**38.0**	ug/kg	17.9	2.0	1	10/02/20 08:09	10/05/20 18:56	50-32-8	
Benzo(b)fluoranthene	**51.0**	ug/kg	17.9	2.5	1	10/02/20 08:09	10/05/20 18:56	205-99-2	
Benzo(g,h,i)perylene	**43.8**	ug/kg	17.9	3.1	1	10/02/20 08:09	10/05/20 18:56	191-24-2	
Benzo(k)fluoranthene	**19.7**	ug/kg	17.9	2.3	1	10/02/20 08:09	10/05/20 18:56	207-08-9	
Chrysene	**29.3**	ug/kg	17.9	3.4	1	10/02/20 08:09	10/05/20 18:56	218-01-9	
Dibenz(a,h)anthracene	**7.2J**	ug/kg	17.9	2.5	1	10/02/20 08:09	10/05/20 18:56	53-70-3	
Fluoranthene	**34.7**	ug/kg	17.9	2.1	1	10/02/20 08:09	10/05/20 18:56	206-44-0	
Fluorene	**3.6J**	ug/kg	17.9	2.1	1	10/02/20 08:09	10/05/20 18:56	86-73-7	
Indeno(1,2,3-cd)pyrene	**30.8**	ug/kg	17.9	3.7	1	10/02/20 08:09	10/05/20 18:56	193-39-5	
1-Methylnaphthalene	**35.6**	ug/kg	17.9	2.6	1	10/02/20 08:09	10/05/20 18:56	90-12-0	
2-Methylnaphthalene	**48.9**	ug/kg	17.9	2.6	1	10/02/20 08:09	10/05/20 18:56	91-57-6	
Naphthalene	**33.0**	ug/kg	17.9	1.7	1	10/02/20 08:09	10/05/20 18:56	91-20-3	
Phenanthrene	**31.2**	ug/kg	17.9	2.0	1	10/02/20 08:09	10/05/20 18:56	85-01-8	
Pyrene	**36.2**	ug/kg	17.9	2.6	1	10/02/20 08:09	10/05/20 18:56	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	71	%	17-100		1	10/02/20 08:09	10/05/20 18:56	321-60-8	
Terphenyl-d14 (S)	75	%	17-98		1	10/02/20 08:09	10/05/20 18:56	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	75-35-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-9, 0.2-4.0' **Lab ID: 40215420011** Collected: 09/24/20 11:43 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/02/20 11:15	10/05/20 22:53	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/02/20 11:15	10/05/20 22:53	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/02/20 11:15	10/05/20 22:53	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/02/20 11:15	10/05/20 22:53	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 22:53	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/02/20 11:15	10/05/20 22:53	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 22:53	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/02/20 11:15	10/05/20 22:53	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:53	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/02/20 11:15	10/05/20 22:53	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/02/20 11:15	10/05/20 22:53	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/02/20 11:15	10/05/20 22:53	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/02/20 11:15	10/05/20 22:53	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/02/20 11:15	10/05/20 22:53	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:53	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/02/20 11:15	10/05/20 22:53	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/02/20 11:15	10/05/20 22:53	75-09-2	W
Naphthalene	**29.3J**	ug/kg	97.2	29.2	1	10/02/20 11:15	10/05/20 22:53	91-20-3	
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/02/20 11:15	10/05/20 22:53	127-18-4	W
Toluene	**82.3**	ug/kg	64.1	26.7	1	10/02/20 11:15	10/05/20 22:53	108-88-3	
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/02/20 11:15	10/05/20 22:53	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	75-01-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-9, 0.2-4.0' **Lab ID: 40215420011** Collected: 09/24/20 11:43 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/02/20 11:15	10/05/20 22:53	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/02/20 11:15	10/05/20 22:53	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/02/20 11:15	10/05/20 22:53	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/02/20 11:15	10/05/20 22:53	103-65-1	W
o-Xylene	**33.6J**	ug/kg	64.1	26.7	1	10/02/20 11:15	10/05/20 22:53	95-47-6	
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:53	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/02/20 11:15	10/05/20 22:53	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/02/20 11:15	10/05/20 22:53	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/02/20 11:15	10/05/20 22:53	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/02/20 11:15	10/05/20 22:53	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	89	%	58-145		1	10/02/20 11:15	10/05/20 22:53	1868-53-7	
Toluene-d8 (S)	93	%	56-140		1	10/02/20 11:15	10/05/20 22:53	2037-26-5	
4-Bromofluorobenzene (S)	80	%	52-137		1	10/02/20 11:15	10/05/20 22:53	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**6.4**	%	0.10	0.10	1		09/28/20 14:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-12, 0.2-5.0' **Lab ID: 40215420012** Collected: 09/24/20 12:15 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<5.7**	ug/kg	18.9	5.7	10	10/01/20 15:08	10/02/20 16:41	309-00-2	
alpha-BHC	**<2.4**	ug/kg	8.1	2.4	10	10/01/20 15:08	10/02/20 16:41	319-84-6	
beta-BHC	**<4.1**	ug/kg	13.5	4.1	10	10/01/20 15:08	10/02/20 16:41	319-85-7	
delta-BHC	**<3.1**	ug/kg	10.3	3.1	10	10/01/20 15:08	10/02/20 16:41	319-86-8	
gamma-BHC (Lindane)	**4.2J**	ug/kg	7.5	2.2	10	10/01/20 15:08	10/02/20 16:41	58-89-9	
Chlordane (Technical)	**<58.4**	ug/kg	194	58.4	10	10/01/20 15:08	10/02/20 16:41	57-74-9	
alpha-Chlordane	**<2.4**	ug/kg	8.1	2.4	10	10/01/20 15:08	10/02/20 16:41	5103-71-9	
gamma-Chlordane	**<5.7**	ug/kg	18.9	5.7	10	10/01/20 15:08	10/02/20 16:41	5103-74-2	
4,4'-DDD	**<4.1**	ug/kg	13.6	4.1	10	10/01/20 15:08	10/02/20 16:41	72-54-8	
4,4'-DDE	**<3.8**	ug/kg	12.8	3.8	10	10/01/20 15:08	10/02/20 16:41	72-55-9	
4,4'-DDT	**<8.6**	ug/kg	28.7	8.6	10	10/01/20 15:08	10/02/20 16:41	50-29-3	
Dieldrin	**<3.7**	ug/kg	12.3	3.7	10	10/01/20 15:08	10/02/20 16:41	60-57-1	
Endosulfan I	**<3.0**	ug/kg	9.8	3.0	10	10/01/20 15:08	10/02/20 16:41	959-98-8	
Endosulfan II	**<5.9**	ug/kg	19.5	5.9	10	10/01/20 15:08	10/02/20 16:41	33213-65-9	
Endosulfan sulfate	**<7.1**	ug/kg	23.6	7.1	10	10/01/20 15:08	10/02/20 16:41	1031-07-8	
Endrin	**<4.0**	ug/kg	13.4	4.0	10	10/01/20 15:08	10/02/20 16:41	72-20-8	
Endrin aldehyde	**<8.0**	ug/kg	26.6	8.0	10	10/01/20 15:08	10/02/20 16:41	7421-93-4	
Endrin ketone	**<9.8**	ug/kg	32.6	9.8	10	10/01/20 15:08	10/02/20 16:41	53494-70-5	
Heptachlor	**<4.0**	ug/kg	13.3	4.0	10	10/01/20 15:08	10/02/20 16:41	76-44-8	
Heptachlor epoxide	**<2.7**	ug/kg	9.1	2.7	10	10/01/20 15:08	10/02/20 16:41	1024-57-3	
Methoxychlor	**<58.5**	ug/kg	195	58.5	10	10/01/20 15:08	10/02/20 16:41	72-43-5	
Toxaphene	**<157**	ug/kg	522	157	10	10/01/20 15:08	10/02/20 16:41	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	118	%.	30-150		10	10/01/20 15:08	10/02/20 16:41	877-09-8	D3
Decachlorobiphenyl (S)	126	%.	30-150		10	10/01/20 15:08	10/02/20 16:41	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541								
	Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.1**	ug/kg	53.0	16.1	1	09/28/20 14:42	09/29/20 20:01	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.1**	ug/kg	53.0	16.1	1	09/28/20 14:42	09/29/20 20:01	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.1**	ug/kg	53.0	16.1	1	09/28/20 14:42	09/29/20 20:01	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.1**	ug/kg	53.0	16.1	1	09/28/20 14:42	09/29/20 20:01	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.1**	ug/kg	53.0	16.1	1	09/28/20 14:42	09/29/20 20:01	12672-29-6	
PCB-1254 (Aroclor 1254)	**35.7J**	ug/kg	53.0	16.1	1	09/28/20 14:42	09/29/20 20:01	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.1**	ug/kg	53.0	16.1	1	09/28/20 14:42	09/29/20 20:01	11096-82-5	
PCB, Total	**35.7J**	ug/kg	53.0	16.1	1	09/28/20 14:42	09/29/20 20:01	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	69-115		1	09/28/20 14:42	09/29/20 20:01	877-09-8	
Decachlorobiphenyl (S)	84	%	62-104		1	09/28/20 14:42	09/29/20 20:01	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**2.8**	mg/kg	0.89	0.27	6.667	09/29/20 06:57	10/02/20 16:59	7440-38-2	
Barium	**35.2**	mg/kg	0.88	0.26	6.667	09/29/20 06:57	10/02/20 16:59	7440-39-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-12, 0.2-5.0' **Lab ID: 40215420012** Collected: 09/24/20 12:15 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**<0.098**	mg/kg	0.67	0.098	6.667	09/29/20 06:57	10/02/20 16:59	7440-43-9	D3
Chromium	**10.2**	mg/kg	2.0	0.61	6.667	09/29/20 06:57	10/02/20 16:59	7440-47-3	
Copper	**17.0**	mg/kg	1.8	0.54	6.667	09/29/20 06:57	10/02/20 16:59	7440-50-8	
Lead	**24.8**	mg/kg	0.67	0.18	6.667	09/29/20 06:57	10/02/20 16:59	7439-92-1	
Selenium	**0.48J**	mg/kg	0.67	0.18	6.667	09/29/20 06:57	10/02/20 16:59	7782-49-2	D3
Silver	**<0.096**	mg/kg	0.34	0.096	6.667	09/29/20 06:57	10/02/20 16:59	7440-22-4	D3
Zinc	**48.3**	mg/kg	23.4	7.0	6.667	09/29/20 06:57	10/02/20 16:59	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.012J**	mg/kg	0.035	0.010	1	10/07/20 09:07	10/08/20 10:25	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**8.8J**	ug/kg	35.5	4.6	2	10/02/20 08:09	10/05/20 19:30	83-32-9	
Acenaphthylene	**32.2J**	ug/kg	35.5	4.5	2	10/02/20 08:09	10/05/20 19:30	208-96-8	
Anthracene	**28.3J**	ug/kg	35.5	4.4	2	10/02/20 08:09	10/05/20 19:30	120-12-7	
Benzo(a)anthracene	**113**	ug/kg	35.5	4.6	2	10/02/20 08:09	10/05/20 19:30	56-55-3	
Benzo(a)pyrene	**152**	ug/kg	35.5	4.0	2	10/02/20 08:09	10/05/20 19:30	50-32-8	
Benzo(b)fluoranthene	**231**	ug/kg	35.5	4.9	2	10/02/20 08:09	10/05/20 19:30	205-99-2	
Benzo(g,h,i)perylene	**130**	ug/kg	35.5	6.2	2	10/02/20 08:09	10/05/20 19:30	191-24-2	
Benzo(k)fluoranthene	**87.8**	ug/kg	35.5	4.5	2	10/02/20 08:09	10/05/20 19:30	207-08-9	
Chrysene	**150**	ug/kg	35.5	6.7	2	10/02/20 08:09	10/05/20 19:30	218-01-9	
Dibenz(a,h)anthracene	**29.5J**	ug/kg	35.5	4.9	2	10/02/20 08:09	10/05/20 19:30	53-70-3	
Fluoranthene	**257**	ug/kg	35.5	4.2	2	10/02/20 08:09	10/05/20 19:30	206-44-0	
Fluorene	**17.3J**	ug/kg	35.5	4.3	2	10/02/20 08:09	10/05/20 19:30	86-73-7	
Indeno(1,2,3-cd)pyrene	**105**	ug/kg	35.5	7.4	2	10/02/20 08:09	10/05/20 19:30	193-39-5	
1-Methylnaphthalene	**67.0**	ug/kg	35.5	5.2	2	10/02/20 08:09	10/05/20 19:30	90-12-0	
2-Methylnaphthalene	**77.3**	ug/kg	35.5	5.2	2	10/02/20 08:09	10/05/20 19:30	91-57-6	
Naphthalene	**71.2**	ug/kg	35.5	3.5	2	10/02/20 08:09	10/05/20 19:30	91-20-3	
Phenanthrene	**114**	ug/kg	35.5	4.1	2	10/02/20 08:09	10/05/20 19:30	85-01-8	
Pyrene	**184**	ug/kg	35.5	5.2	2	10/02/20 08:09	10/05/20 19:30	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	71	%	17-100		2	10/02/20 08:09	10/05/20 19:30	321-60-8	
Terphenyl-d14 (S)	72	%	17-98		2	10/02/20 08:09	10/05/20 19:30	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	75-35-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-12, 0.2-5.0' **Lab ID: 40215420012** Collected: 09/24/20 12:15 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/05/20 09:00	10/05/20 15:05	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/05/20 09:00	10/05/20 15:05	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/05/20 09:00	10/05/20 15:05	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/05/20 09:00	10/05/20 15:05	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 15:05	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 15:05	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 15:05	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/05/20 09:00	10/05/20 15:05	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:05	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/05/20 09:00	10/05/20 15:05	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/05/20 09:00	10/05/20 15:05	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/05/20 09:00	10/05/20 15:05	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/05/20 09:00	10/05/20 15:05	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/05/20 09:00	10/05/20 15:05	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:05	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/05/20 09:00	10/05/20 15:05	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/05/20 09:00	10/05/20 15:05	75-09-2	W
Naphthalene	**49.2J**	ug/kg	96.6	29.0	1	10/05/20 09:00	10/05/20 15:05	91-20-3	
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/05/20 09:00	10/05/20 15:05	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/05/20 09:00	10/05/20 15:05	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	75-01-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-12, 0.2-5.0' **Lab ID: 40215420012** Collected: 09/24/20 12:15 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/05/20 09:00	10/05/20 15:05	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/05/20 09:00	10/05/20 15:05	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/05/20 09:00	10/05/20 15:05	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:05	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:05	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:05	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 15:05	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/05/20 09:00	10/05/20 15:05	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/05/20 09:00	10/05/20 15:05	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	95	%	58-145		1	10/05/20 09:00	10/05/20 15:05	1868-53-7	
Toluene-d8 (S)	96	%	56-140		1	10/05/20 09:00	10/05/20 15:05	2037-26-5	
4-Bromofluorobenzene (S)	83	%	52-137		1	10/05/20 09:00	10/05/20 15:05	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**5.8**	%	0.10	0.10	1		09/28/20 14:20		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-12, 5.0-7.5' **Lab ID: 40215420013** Collected: 09/24/20 12:20 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<31.5**	ug/kg	105	31.5	50	10/01/20 15:08	10/02/20 19:27	309-00-2	
alpha-BHC	**<13.5**	ug/kg	44.9	13.5	50	10/01/20 15:08	10/02/20 19:27	319-84-6	
beta-BHC	**<22.6**	ug/kg	75.2	22.6	50	10/01/20 15:08	10/02/20 19:27	319-85-7	
delta-BHC	**<17.2**	ug/kg	57.2	17.2	50	10/01/20 15:08	10/02/20 19:27	319-86-8	
gamma-BHC (Lindane)	**<12.5**	ug/kg	41.5	12.5	50	10/01/20 15:08	10/02/20 19:27	58-89-9	
Chlordane (Technical)	**<324**	ug/kg	1080	324	50	10/01/20 15:08	10/02/20 19:27	57-74-9	
alpha-Chlordane	**<13.6**	ug/kg	45.3	13.6	50	10/01/20 15:08	10/02/20 19:27	5103-71-9	
gamma-Chlordane	**<31.6**	ug/kg	105	31.6	50	10/01/20 15:08	10/02/20 19:27	5103-74-2	
4,4'-DDD	**<22.8**	ug/kg	75.8	22.8	50	10/01/20 15:08	10/02/20 19:27	72-54-8	
4,4'-DDE	**<21.4**	ug/kg	71.1	21.4	50	10/01/20 15:08	10/02/20 19:27	72-55-9	
4,4'-DDT	**<48.0**	ug/kg	160	48.0	50	10/01/20 15:08	10/02/20 19:27	50-29-3	
Dieldrin	**<20.5**	ug/kg	68.2	20.5	50	10/01/20 15:08	10/02/20 19:27	60-57-1	
Endosulfan I	**<16.4**	ug/kg	54.7	16.4	50	10/01/20 15:08	10/02/20 19:27	959-98-8	
Endosulfan II	**<32.6**	ug/kg	109	32.6	50	10/01/20 15:08	10/02/20 19:27	33213-65-9	
Endosulfan sulfate	**<39.4**	ug/kg	131	39.4	50	10/01/20 15:08	10/02/20 19:27	1031-07-8	
Endrin	**<22.4**	ug/kg	74.7	22.4	50	10/01/20 15:08	10/02/20 19:27	72-20-8	
Endrin aldehyde	**<44.3**	ug/kg	148	44.3	50	10/01/20 15:08	10/02/20 19:27	7421-93-4	
Endrin ketone	**<54.4**	ug/kg	181	54.4	50	10/01/20 15:08	10/02/20 19:27	53494-70-5	
Heptachlor	**<22.1**	ug/kg	73.7	22.1	50	10/01/20 15:08	10/02/20 19:27	76-44-8	
Heptachlor epoxide	**<15.2**	ug/kg	50.6	15.2	50	10/01/20 15:08	10/02/20 19:27	1024-57-3	
Methoxychlor	**<325**	ug/kg	1080	325	50	10/01/20 15:08	10/02/20 19:27	72-43-5	
Toxaphene	**<871**	ug/kg	2900	871	50	10/01/20 15:08	10/02/20 19:27	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	124	%.	30-150		50	10/01/20 15:08	10/02/20 19:27	877-09-8	D3,v1
Decachlorobiphenyl (S)	148	%.	30-150		50	10/01/20 15:08	10/02/20 19:27	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541								
	Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<17.9**	ug/kg	58.9	17.9	1	09/28/20 14:42	09/29/20 20:23	12674-11-2	
PCB-1221 (Aroclor 1221)	**<17.9**	ug/kg	58.9	17.9	1	09/28/20 14:42	09/29/20 20:23	11104-28-2	
PCB-1232 (Aroclor 1232)	**<17.9**	ug/kg	58.9	17.9	1	09/28/20 14:42	09/29/20 20:23	11141-16-5	
PCB-1242 (Aroclor 1242)	**<17.9**	ug/kg	58.9	17.9	1	09/28/20 14:42	09/29/20 20:23	53469-21-9	
PCB-1248 (Aroclor 1248)	**<17.9**	ug/kg	58.9	17.9	1	09/28/20 14:42	09/29/20 20:23	12672-29-6	
PCB-1254 (Aroclor 1254)	**48.7J**	ug/kg	58.9	17.9	1	09/28/20 14:42	09/29/20 20:23	11097-69-1	
PCB-1260 (Aroclor 1260)	**38.8J**	ug/kg	58.9	17.9	1	09/28/20 14:42	09/29/20 20:23	11096-82-5	
PCB, Total	**87.4**	ug/kg	58.9	17.9	1	09/28/20 14:42	09/29/20 20:23	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	69-115		1	09/28/20 14:42	09/29/20 20:23	877-09-8	
Decachlorobiphenyl (S)	81	%	62-104		1	09/28/20 14:42	09/29/20 20:23	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**5.1**	mg/kg	0.96	0.29	6.667	09/29/20 06:57	10/02/20 17:06	7440-38-2	
Barium	**34.5**	mg/kg	0.95	0.29	6.667	09/29/20 06:57	10/02/20 17:06	7440-39-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-12, 5.0-7.5' **Lab ID: 40215420013** Collected: 09/24/20 12:20 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**0.39J**	mg/kg	0.72	0.11	6.667	09/29/20 06:57	10/02/20 17:06	7440-43-9	D3
Chromium	**12.5**	mg/kg	2.2	0.66	6.667	09/29/20 06:57	10/02/20 17:06	7440-47-3	
Copper	**24.3**	mg/kg	1.9	0.58	6.667	09/29/20 06:57	10/02/20 17:06	7440-50-8	
Lead	**207**	mg/kg	0.72	0.20	6.667	09/29/20 06:57	10/02/20 17:06	7439-92-1	
Selenium	**0.57J**	mg/kg	0.72	0.20	6.667	09/29/20 06:57	10/02/20 17:06	7782-49-2	D3
Silver	**0.14J**	mg/kg	0.36	0.10	6.667	09/29/20 06:57	10/02/20 17:06	7440-22-4	D3
Zinc	**84.3**	mg/kg	25.2	7.6	6.667	09/29/20 06:57	10/02/20 17:06	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.074**	mg/kg	0.039	0.011	1	10/07/20 09:07	10/08/20 10:27	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**54.3J**	ug/kg	197	25.6	10	10/02/20 08:09	10/05/20 18:21	83-32-9	
Acenaphthylene	**159J**	ug/kg	197	24.8	10	10/02/20 08:09	10/05/20 18:21	208-96-8	
Anthracene	**391**	ug/kg	197	24.5	10	10/02/20 08:09	10/05/20 18:21	120-12-7	
Benzo(a)anthracene	**776**	ug/kg	197	25.5	10	10/02/20 08:09	10/05/20 18:21	56-55-3	
Benzo(a)pyrene	**926**	ug/kg	197	22.4	10	10/02/20 08:09	10/05/20 18:21	50-32-8	
Benzo(b)fluoranthene	**1060**	ug/kg	197	27.4	10	10/02/20 08:09	10/05/20 18:21	205-99-2	
Benzo(g,h,i)perylene	**563**	ug/kg	197	34.6	10	10/02/20 08:09	10/05/20 18:21	191-24-2	
Benzo(k)fluoranthene	**466**	ug/kg	197	25.2	10	10/02/20 08:09	10/05/20 18:21	207-08-9	
Chrysene	**860**	ug/kg	197	37.2	10	10/02/20 08:09	10/05/20 18:21	218-01-9	
Dibenz(a,h)anthracene	**162J**	ug/kg	197	27.3	10	10/02/20 08:09	10/05/20 18:21	53-70-3	
Fluoranthene	**1670**	ug/kg	197	23.3	10	10/02/20 08:09	10/05/20 18:21	206-44-0	
Fluorene	**130J**	ug/kg	197	23.6	10	10/02/20 08:09	10/05/20 18:21	86-73-7	
Indeno(1,2,3-cd)pyrene	**488**	ug/kg	197	41.1	10	10/02/20 08:09	10/05/20 18:21	193-39-5	
1-Methylnaphthalene	**61.6J**	ug/kg	197	28.8	10	10/02/20 08:09	10/05/20 18:21	90-12-0	
2-Methylnaphthalene	**73.2J**	ug/kg	197	28.8	10	10/02/20 08:09	10/05/20 18:21	91-57-6	
Naphthalene	**82.5J**	ug/kg	197	19.2	10	10/02/20 08:09	10/05/20 18:21	91-20-3	
Phenanthrene	**1020**	ug/kg	197	22.6	10	10/02/20 08:09	10/05/20 18:21	85-01-8	
Pyrene	**1290**	ug/kg	197	29.0	10	10/02/20 08:09	10/05/20 18:21	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63	%	17-100		10	10/02/20 08:09	10/05/20 18:21	321-60-8	
Terphenyl-d14 (S)	68	%	17-98		10	10/02/20 08:09	10/05/20 18:21	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	75-35-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-12, 5.0-7.5' **Lab ID: 40215420013** Collected: 09/24/20 12:20 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/05/20 09:00	10/05/20 15:22	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/05/20 09:00	10/05/20 15:22	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/05/20 09:00	10/05/20 15:22	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/05/20 09:00	10/05/20 15:22	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 15:22	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 15:22	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 15:22	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/05/20 09:00	10/05/20 15:22	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:22	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/05/20 09:00	10/05/20 15:22	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/05/20 09:00	10/05/20 15:22	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/05/20 09:00	10/05/20 15:22	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/05/20 09:00	10/05/20 15:22	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/05/20 09:00	10/05/20 15:22	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:22	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/05/20 09:00	10/05/20 15:22	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/05/20 09:00	10/05/20 15:22	75-09-2	W
Naphthalene	**52.7J**	ug/kg	108	32.2	1	10/05/20 09:00	10/05/20 15:22	91-20-3	
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/05/20 09:00	10/05/20 15:22	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/05/20 09:00	10/05/20 15:22	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	75-01-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-12, 5.0-7.5' **Lab ID: 40215420013** Collected: 09/24/20 12:20 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/05/20 09:00	10/05/20 15:22	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/05/20 09:00	10/05/20 15:22	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/05/20 09:00	10/05/20 15:22	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:22	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:22	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:22	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 15:22	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/05/20 09:00	10/05/20 15:22	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/05/20 09:00	10/05/20 15:22	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	97	%	58-145		1	10/05/20 09:00	10/05/20 15:22	1868-53-7	
Toluene-d8 (S)	98	%	56-140		1	10/05/20 09:00	10/05/20 15:22	2037-26-5	
4-Bromofluorobenzene (S)	85	%	52-137		1	10/05/20 09:00	10/05/20 15:22	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**15.4**	%	0.10	0.10	1		09/28/20 14:20		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-13, 0.2-4.0' **Lab ID: 40215420014** Collected: 09/24/20 12:25 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<29.5**	ug/kg	98.2	29.5	50	10/01/20 15:08	10/02/20 19:46	309-00-2	
alpha-BHC	**<12.6**	ug/kg	42.0	12.6	50	10/01/20 15:08	10/02/20 19:46	319-84-6	
beta-BHC	**<21.2**	ug/kg	70.5	21.2	50	10/01/20 15:08	10/02/20 19:46	319-85-7	
delta-BHC	**<16.1**	ug/kg	53.6	16.1	50	10/01/20 15:08	10/02/20 19:46	319-86-8	
gamma-BHC (Lindane)	**<11.7**	ug/kg	38.9	11.7	50	10/01/20 15:08	10/02/20 19:46	58-89-9	
Chlordane (Technical)	**<304**	ug/kg	1010	304	50	10/01/20 15:08	10/02/20 19:46	57-74-9	
alpha-Chlordane	**<12.7**	ug/kg	42.4	12.7	50	10/01/20 15:08	10/02/20 19:46	5103-71-9	
gamma-Chlordane	**<29.6**	ug/kg	98.6	29.6	50	10/01/20 15:08	10/02/20 19:46	5103-74-2	
4,4'-DDD	**<21.3**	ug/kg	71.0	21.3	50	10/01/20 15:08	10/02/20 19:46	72-54-8	
4,4'-DDE	**<20.0**	ug/kg	66.6	20.0	50	10/01/20 15:08	10/02/20 19:46	72-55-9	
4,4'-DDT	**<44.9**	ug/kg	150	44.9	50	10/01/20 15:08	10/02/20 19:46	50-29-3	
Dieldrin	**<19.2**	ug/kg	63.9	19.2	50	10/01/20 15:08	10/02/20 19:46	60-57-1	
Endosulfan I	**<15.4**	ug/kg	51.2	15.4	50	10/01/20 15:08	10/02/20 19:46	959-98-8	
Endosulfan II	**<30.5**	ug/kg	102	30.5	50	10/01/20 15:08	10/02/20 19:46	33213-65-9	
Endosulfan sulfate	**<36.9**	ug/kg	123	36.9	50	10/01/20 15:08	10/02/20 19:46	1031-07-8	
Endrin	**<21.0**	ug/kg	69.9	21.0	50	10/01/20 15:08	10/02/20 19:46	72-20-8	
Endrin aldehyde	**<41.5**	ug/kg	138	41.5	50	10/01/20 15:08	10/02/20 19:46	7421-93-4	
Endrin ketone	**<51.0**	ug/kg	170	51.0	50	10/01/20 15:08	10/02/20 19:46	53494-70-5	
Heptachlor	**<20.7**	ug/kg	69.0	20.7	50	10/01/20 15:08	10/02/20 19:46	76-44-8	
Heptachlor epoxide	**<14.2**	ug/kg	47.4	14.2	50	10/01/20 15:08	10/02/20 19:46	1024-57-3	
Methoxychlor	**<304**	ug/kg	1010	304	50	10/01/20 15:08	10/02/20 19:46	72-43-5	
Toxaphene	**<816**	ug/kg	2720	816	50	10/01/20 15:08	10/02/20 19:46	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	124	%.	30-150		50	10/01/20 15:08	10/02/20 19:46	877-09-8	D3,v1
Decachlorobiphenyl (S)	131	%.	30-150		50	10/01/20 15:08	10/02/20 19:46	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541								
	Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.8**	ug/kg	55.3	16.8	1	09/28/20 14:42	09/29/20 20:45	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.8**	ug/kg	55.3	16.8	1	09/28/20 14:42	09/29/20 20:45	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.8**	ug/kg	55.3	16.8	1	09/28/20 14:42	09/29/20 20:45	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.8**	ug/kg	55.3	16.8	1	09/28/20 14:42	09/29/20 20:45	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.8**	ug/kg	55.3	16.8	1	09/28/20 14:42	09/29/20 20:45	12672-29-6	
PCB-1254 (Aroclor 1254)	**156**	ug/kg	55.3	16.8	1	09/28/20 14:42	09/29/20 20:45	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.8**	ug/kg	55.3	16.8	1	09/28/20 14:42	09/29/20 20:45	11096-82-5	
PCB, Total	**156**	ug/kg	55.3	16.8	1	09/28/20 14:42	09/29/20 20:45	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	69-115		1	09/28/20 14:42	09/29/20 20:45	877-09-8	
Decachlorobiphenyl (S)	88	%	62-104		1	09/28/20 14:42	09/29/20 20:45	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**44.4**	mg/kg	0.96	0.29	6.667	09/29/20 06:57	10/02/20 17:13	7440-38-2	
Barium	**182**	mg/kg	0.95	0.29	6.667	09/29/20 06:57	10/02/20 17:13	7440-39-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-13, 0.2-4.0' **Lab ID: 40215420014** Collected: 09/24/20 12:25 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**3.1**	mg/kg	0.72	0.11	6.667	09/29/20 06:57	10/02/20 17:13	7440-43-9	
Chromium	**14.8**	mg/kg	2.2	0.66	6.667	09/29/20 06:57	10/02/20 17:13	7440-47-3	
Copper	**74.4**	mg/kg	1.9	0.58	6.667	09/29/20 06:57	10/02/20 17:13	7440-50-8	
Lead	**269**	mg/kg	0.72	0.20	6.667	09/29/20 06:57	10/02/20 17:13	7439-92-1	
Selenium	**0.76**	mg/kg	0.72	0.20	6.667	09/29/20 06:57	10/02/20 17:13	7782-49-2	
Silver	**0.27J**	mg/kg	0.36	0.10	6.667	09/29/20 06:57	10/02/20 17:13	7440-22-4	D3
Zinc	**803**	mg/kg	25.2	7.6	6.667	09/29/20 06:57	10/02/20 17:13	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.44**	mg/kg	0.036	0.010	1	10/07/20 09:07	10/08/20 10:30	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**12.4J**	ug/kg	36.9	4.8	2	10/02/20 08:09	10/05/20 19:47	83-32-9	
Acenaphthylene	**21.1J**	ug/kg	36.9	4.7	2	10/02/20 08:09	10/05/20 19:47	208-96-8	
Anthracene	**34.1J**	ug/kg	36.9	4.6	2	10/02/20 08:09	10/05/20 19:47	120-12-7	
Benzo(a)anthracene	**78.4**	ug/kg	36.9	4.8	2	10/02/20 08:09	10/05/20 19:47	56-55-3	
Benzo(a)pyrene	**96.9**	ug/kg	36.9	4.2	2	10/02/20 08:09	10/05/20 19:47	50-32-8	
Benzo(b)fluoranthene	**141**	ug/kg	36.9	5.1	2	10/02/20 08:09	10/05/20 19:47	205-99-2	
Benzo(g,h,i)perylene	**85.1**	ug/kg	36.9	6.5	2	10/02/20 08:09	10/05/20 19:47	191-24-2	
Benzo(k)fluoranthene	**49.3**	ug/kg	36.9	4.7	2	10/02/20 08:09	10/05/20 19:47	207-08-9	
Chrysene	**109**	ug/kg	36.9	7.0	2	10/02/20 08:09	10/05/20 19:47	218-01-9	
Dibenz(a,h)anthracene	**18.5J**	ug/kg	36.9	5.1	2	10/02/20 08:09	10/05/20 19:47	53-70-3	
Fluoranthene	**150**	ug/kg	36.9	4.4	2	10/02/20 08:09	10/05/20 19:47	206-44-0	
Fluorene	**27.0J**	ug/kg	36.9	4.4	2	10/02/20 08:09	10/05/20 19:47	86-73-7	
Indeno(1,2,3-cd)pyrene	**57.5**	ug/kg	36.9	7.7	2	10/02/20 08:09	10/05/20 19:47	193-39-5	
1-Methylnaphthalene	**266**	ug/kg	36.9	5.4	2	10/02/20 08:09	10/05/20 19:47	90-12-0	
2-Methylnaphthalene	**387**	ug/kg	36.9	5.4	2	10/02/20 08:09	10/05/20 19:47	91-57-6	
Naphthalene	**355**	ug/kg	36.9	3.6	2	10/02/20 08:09	10/05/20 19:47	91-20-3	
Phenanthrene	**199**	ug/kg	36.9	4.2	2	10/02/20 08:09	10/05/20 19:47	85-01-8	
Pyrene	**110**	ug/kg	36.9	5.4	2	10/02/20 08:09	10/05/20 19:47	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	68	%	17-100		2	10/02/20 08:09	10/05/20 19:47	321-60-8	
Terphenyl-d14 (S)	69	%	17-98		2	10/02/20 08:09	10/05/20 19:47	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	75-35-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-13, 0.2-4.0' **Lab ID: 40215420014** Collected: 09/24/20 12:25 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/05/20 09:00	10/05/20 12:48	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/05/20 09:00	10/05/20 12:48	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/05/20 09:00	10/05/20 12:48	120-82-1	W
1,2,4-Trimethylbenzene	**30.3J**	ug/kg	66.4	27.7	1	10/05/20 09:00	10/05/20 12:48	95-63-6	
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/05/20 09:00	10/05/20 12:48	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 12:48	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 12:48	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 12:48	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/05/20 09:00	10/05/20 12:48	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 12:48	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/05/20 09:00	10/05/20 12:48	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/05/20 09:00	10/05/20 12:48	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/05/20 09:00	10/05/20 12:48	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/05/20 09:00	10/05/20 12:48	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/05/20 09:00	10/05/20 12:48	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 12:48	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/05/20 09:00	10/05/20 12:48	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/05/20 09:00	10/05/20 12:48	75-09-2	W
Naphthalene	**57.4J**	ug/kg	101	30.2	1	10/05/20 09:00	10/05/20 12:48	91-20-3	
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/05/20 09:00	10/05/20 12:48	127-18-4	W
Toluene	**116**	ug/kg	66.4	27.7	1	10/05/20 09:00	10/05/20 12:48	108-88-3	
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/05/20 09:00	10/05/20 12:48	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	75-01-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-13, 0.2-4.0' **Lab ID: 40215420014** Collected: 09/24/20 12:25 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/05/20 09:00	10/05/20 12:48	10061-01-5	W
m&p-Xylene	**96.6J**	ug/kg	133	55.3	1	10/05/20 09:00	10/05/20 12:48	179601-23-1	
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/05/20 09:00	10/05/20 12:48	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:48	103-65-1	W
o-Xylene	**49.4J**	ug/kg	66.4	27.7	1	10/05/20 09:00	10/05/20 12:48	95-47-6	
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 12:48	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 12:48	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 12:48	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/05/20 09:00	10/05/20 12:48	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/05/20 09:00	10/05/20 12:48	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	58-145		1	10/05/20 09:00	10/05/20 12:48	1868-53-7	
Toluene-d8 (S)	92	%	56-140		1	10/05/20 09:00	10/05/20 12:48	2037-26-5	
4-Bromofluorobenzene (S)	83	%	52-137		1	10/05/20 09:00	10/05/20 12:48	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**9.6**	%	0.10	0.10	1		09/28/20 14:20		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-5, 0.2-4.0' **Lab ID: 40215420015** Collected: 09/24/20 12:45 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3550								
	Pace Analytical Services - Minneapolis								
Aldrin	**<5.6**	ug/kg	18.7	5.6	10	10/01/20 15:08	10/02/20 16:59	309-00-2	
alpha-BHC	**<2.4**	ug/kg	8.0	2.4	10	10/01/20 15:08	10/02/20 16:59	319-84-6	
beta-BHC	**<4.0**	ug/kg	13.4	4.0	10	10/01/20 15:08	10/02/20 16:59	319-85-7	
delta-BHC	**<3.1**	ug/kg	10.2	3.1	10	10/01/20 15:08	10/02/20 16:59	319-86-8	
gamma-BHC (Lindane)	**<2.2**	ug/kg	7.4	2.2	10	10/01/20 15:08	10/02/20 16:59	58-89-9	
Chlordane (Technical)	**<57.8**	ug/kg	193	57.8	10	10/01/20 15:08	10/02/20 16:59	57-74-9	
alpha-Chlordane	**<2.4**	ug/kg	8.1	2.4	10	10/01/20 15:08	10/02/20 16:59	5103-71-9	
gamma-Chlordane	**<5.6**	ug/kg	18.8	5.6	10	10/01/20 15:08	10/02/20 16:59	5103-74-2	
4,4'-DDD	**<4.1**	ug/kg	13.5	4.1	10	10/01/20 15:08	10/02/20 16:59	72-54-8	
4,4'-DDE	**<3.8**	ug/kg	12.7	3.8	10	10/01/20 15:08	10/02/20 16:59	72-55-9	
4,4'-DDT	**<8.6**	ug/kg	28.5	8.6	10	10/01/20 15:08	10/02/20 16:59	50-29-3	
Dieldrin	**<3.7**	ug/kg	12.2	3.7	10	10/01/20 15:08	10/02/20 16:59	60-57-1	
Endosulfan I	**<2.9**	ug/kg	9.8	2.9	10	10/01/20 15:08	10/02/20 16:59	959-98-8	
Endosulfan II	**<5.8**	ug/kg	19.4	5.8	10	10/01/20 15:08	10/02/20 16:59	33213-65-9	
Endosulfan sulfate	**<7.0**	ug/kg	23.4	7.0	10	10/01/20 15:08	10/02/20 16:59	1031-07-8	
Endrin	**<4.0**	ug/kg	13.3	4.0	10	10/01/20 15:08	10/02/20 16:59	72-20-8	
Endrin aldehyde	**<7.9**	ug/kg	26.3	7.9	10	10/01/20 15:08	10/02/20 16:59	7421-93-4	
Endrin ketone	**<9.7**	ug/kg	32.3	9.7	10	10/01/20 15:08	10/02/20 16:59	53494-70-5	
Heptachlor	**<3.9**	ug/kg	13.1	3.9	10	10/01/20 15:08	10/02/20 16:59	76-44-8	
Heptachlor epoxide	**<2.7**	ug/kg	9.0	2.7	10	10/01/20 15:08	10/02/20 16:59	1024-57-3	
Methoxychlor	**<58.0**	ug/kg	193	58.0	10	10/01/20 15:08	10/02/20 16:59	72-43-5	
Toxaphene	**<155**	ug/kg	517	155	10	10/01/20 15:08	10/02/20 16:59	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	113	%.	30-150		10	10/01/20 15:08	10/02/20 16:59	877-09-8	D3
Decachlorobiphenyl (S)	135	%.	30-150		10	10/01/20 15:08	10/02/20 16:59	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3541								
	Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<16.1**	ug/kg	52.8	16.1	1	09/28/20 14:42	09/29/20 18:34	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.1**	ug/kg	52.8	16.1	1	09/28/20 14:42	09/29/20 18:34	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.1**	ug/kg	52.8	16.1	1	09/28/20 14:42	09/29/20 18:34	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.1**	ug/kg	52.8	16.1	1	09/28/20 14:42	09/29/20 18:34	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.1**	ug/kg	52.8	16.1	1	09/28/20 14:42	09/29/20 18:34	12672-29-6	
PCB-1254 (Aroclor 1254)	**57.6**	ug/kg	52.8	16.1	1	09/28/20 14:42	09/29/20 18:34	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.1**	ug/kg	52.8	16.1	1	09/28/20 14:42	09/29/20 18:34	11096-82-5	
PCB, Total	**57.6**	ug/kg	52.8	16.1	1	09/28/20 14:42	09/29/20 18:34	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	69-115		1	09/28/20 14:42	09/29/20 18:34	877-09-8	
Decachlorobiphenyl (S)	85	%	62-104		1	09/28/20 14:42	09/29/20 18:34	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
	Pace Analytical Services - Green Bay								
Arsenic	**2.2**	mg/kg	0.88	0.26	6.667	09/29/20 06:57	10/02/20 17:33	7440-38-2	
Barium	**12.1**	mg/kg	0.88	0.26	6.667	09/29/20 06:57	10/02/20 17:33	7440-39-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-5, 0.2-4.0' **Lab ID: 40215420015** Collected: 09/24/20 12:45 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Cadmium	**0.10J**	mg/kg	0.67	0.098	6.667	09/29/20 06:57	10/02/20 17:33	7440-43-9	D3
Chromium	**11.7**	mg/kg	2.0	0.61	6.667	09/29/20 06:57	10/02/20 17:33	7440-47-3	
Copper	**13.1**	mg/kg	1.8	0.54	6.667	09/29/20 06:57	10/02/20 17:33	7440-50-8	
Lead	**18.0**	mg/kg	0.67	0.18	6.667	09/29/20 06:57	10/02/20 17:33	7439-92-1	
Selenium	**0.34J**	mg/kg	0.67	0.18	6.667	09/29/20 06:57	10/02/20 17:33	7782-49-2	D3
Silver	**<0.096**	mg/kg	0.33	0.096	6.667	09/29/20 06:57	10/02/20 17:33	7440-22-4	D3
Zinc	**60.6**	mg/kg	23.3	7.0	6.667	09/29/20 06:57	10/02/20 17:33	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.015J**	mg/kg	0.036	0.010	1	10/07/20 09:07	10/08/20 10:37	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**17.0J**	ug/kg	35.3	4.6	2	10/02/20 08:09	10/05/20 18:38	83-32-9	
Acenaphthylene	**39.8**	ug/kg	35.3	4.5	2	10/02/20 08:09	10/05/20 18:38	208-96-8	
Anthracene	**55.2**	ug/kg	35.3	4.4	2	10/02/20 08:09	10/05/20 18:38	120-12-7	
Benzo(a)anthracene	**110**	ug/kg	35.3	4.6	2	10/02/20 08:09	10/05/20 18:38	56-55-3	
Benzo(a)pyrene	**151**	ug/kg	35.3	4.0	2	10/02/20 08:09	10/05/20 18:38	50-32-8	
Benzo(b)fluoranthene	**193**	ug/kg	35.3	4.9	2	10/02/20 08:09	10/05/20 18:38	205-99-2	
Benzo(g,h,i)perylene	**124**	ug/kg	35.3	6.2	2	10/02/20 08:09	10/05/20 18:38	191-24-2	
Benzo(k)fluoranthene	**78.1**	ug/kg	35.3	4.5	2	10/02/20 08:09	10/05/20 18:38	207-08-9	
Chrysene	**142**	ug/kg	35.3	6.7	2	10/02/20 08:09	10/05/20 18:38	218-01-9	
Dibenz(a,h)anthracene	**30.8J**	ug/kg	35.3	4.9	2	10/02/20 08:09	10/05/20 18:38	53-70-3	
Fluoranthene	**212**	ug/kg	35.3	4.2	2	10/02/20 08:09	10/05/20 18:38	206-44-0	
Fluorene	**28.6J**	ug/kg	35.3	4.2	2	10/02/20 08:09	10/05/20 18:38	86-73-7	
Indeno(1,2,3-cd)pyrene	**94.5**	ug/kg	35.3	7.4	2	10/02/20 08:09	10/05/20 18:38	193-39-5	
1-Methylnaphthalene	**17.3J**	ug/kg	35.3	5.2	2	10/02/20 08:09	10/05/20 18:38	90-12-0	
2-Methylnaphthalene	**18.3J**	ug/kg	35.3	5.2	2	10/02/20 08:09	10/05/20 18:38	91-57-6	
Naphthalene	**46.5**	ug/kg	35.3	3.4	2	10/02/20 08:09	10/05/20 18:38	91-20-3	
Phenanthrene	**122**	ug/kg	35.3	4.0	2	10/02/20 08:09	10/05/20 18:38	85-01-8	
Pyrene	**174**	ug/kg	35.3	5.2	2	10/02/20 08:09	10/05/20 18:38	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	51	%	17-100		2	10/02/20 08:09	10/05/20 18:38	321-60-8	
Terphenyl-d14 (S)	55	%	17-98		2	10/02/20 08:09	10/05/20 18:38	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	75-35-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-5, 0.2-4.0' **Lab ID: 40215420015** Collected: 09/24/20 12:45 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/05/20 09:00	10/05/20 15:39	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/05/20 09:00	10/05/20 15:39	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/05/20 09:00	10/05/20 15:39	120-82-1	W
1,2,4-Trimethylbenzene	**45.0J**	ug/kg	63.5	26.4	1	10/05/20 09:00	10/05/20 15:39	95-63-6	
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/05/20 09:00	10/05/20 15:39	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 15:39	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 15:39	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 15:39	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/05/20 09:00	10/05/20 15:39	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:39	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/05/20 09:00	10/05/20 15:39	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/05/20 09:00	10/05/20 15:39	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/05/20 09:00	10/05/20 15:39	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/05/20 09:00	10/05/20 15:39	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/05/20 09:00	10/05/20 15:39	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:39	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/05/20 09:00	10/05/20 15:39	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/05/20 09:00	10/05/20 15:39	75-09-2	W
Naphthalene	**67.2J**	ug/kg	96.2	28.9	1	10/05/20 09:00	10/05/20 15:39	91-20-3	
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/05/20 09:00	10/05/20 15:39	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/05/20 09:00	10/05/20 15:39	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	75-01-4	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: GP-5, 0.2-4.0' **Lab ID: 40215420015** Collected: 09/24/20 12:45 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/05/20 09:00	10/05/20 15:39	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/05/20 09:00	10/05/20 15:39	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/05/20 09:00	10/05/20 15:39	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 15:39	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:39	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 15:39	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 15:39	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/05/20 09:00	10/05/20 15:39	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/05/20 09:00	10/05/20 15:39	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	58-145		1	10/05/20 09:00	10/05/20 15:39	1868-53-7	
Toluene-d8 (S)	94	%	56-140		1	10/05/20 09:00	10/05/20 15:39	2037-26-5	
4-Bromofluorobenzene (S)	81	%	52-137		1	10/05/20 09:00	10/05/20 15:39	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**5.4**	%	0.10	0.10	1		09/28/20 14:20		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: MEOH BLANK **Lab ID: 40215420016** Collected: 09/23/20 00:00 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	10/05/20 09:00	10/05/20 12:14	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	10/05/20 09:00	10/05/20 12:14	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	10/05/20 09:00	10/05/20 12:14	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	10/05/20 09:00	10/05/20 12:14	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 12:14	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	10/05/20 09:00	10/05/20 12:14	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 12:14	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	10/05/20 09:00	10/05/20 12:14	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 12:14	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	10/05/20 09:00	10/05/20 12:14	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	10/05/20 09:00	10/05/20 12:14	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	10/05/20 09:00	10/05/20 12:14	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	10/05/20 09:00	10/05/20 12:14	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	10/05/20 09:00	10/05/20 12:14	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 12:14	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	10/05/20 09:00	10/05/20 12:14	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	10/05/20 09:00	10/05/20 12:14	75-09-2	W
Naphthalene	**<27.3**	ug/kg	91.0	27.3	1	10/05/20 09:00	10/05/20 12:14	91-20-3	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Sample: MEOH BLANK **Lab ID: 40215420016** Collected: 09/23/20 00:00 Received: 09/25/20 15:12 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	10/05/20 09:00	10/05/20 12:14	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	10/05/20 09:00	10/05/20 12:14	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	75-01-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	10/05/20 09:00	10/05/20 12:14	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/05/20 09:00	10/05/20 12:14	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	10/05/20 09:00	10/05/20 12:14	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/05/20 09:00	10/05/20 12:14	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 12:14	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	10/05/20 09:00	10/05/20 12:14	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	10/05/20 09:00	10/05/20 12:14	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	10/05/20 09:00	10/05/20 12:14	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	10/05/20 09:00	10/05/20 12:14	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	95	%	58-145		1	10/05/20 09:00	10/05/20 12:14	1868-53-7	
Toluene-d8 (S)	96	%	56-140		1	10/05/20 09:00	10/05/20 12:14	2037-26-5	
4-Bromofluorobenzene (S)	85	%	52-137		1	10/05/20 09:00	10/05/20 12:14	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

QC Batch: 367571
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: 7471 Mercury
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40215420001, 40215420002, 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011, 40215420012, 40215420013, 40215420014, 40215420015

METHOD BLANK: 2124444 Matrix: Solid
Associated Lab Samples: 40215420001, 40215420002, 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011, 40215420012, 40215420013, 40215420014, 40215420015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	10/08/20 09:41	

LABORATORY CONTROL SAMPLE: 2124445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.85	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2124446 2124447

Parameter	Units	40215277001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.034J	0.88	0.88	0.86	0.85	94	94	85-115	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

QC Batch: 366768
QC Batch Method: EPA 3050
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40215420001, 40215420002, 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011, 40215420012, 40215420013, 40215420014, 40215420015

METHOD BLANK: 2119990 Matrix: Solid
Associated Lab Samples: 40215420001, 40215420002, 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011, 40215420012, 40215420013, 40215420014, 40215420015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<0.040	0.13	10/02/20 14:50	
Barium	mg/kg	<0.039	0.13	10/02/20 14:50	
Cadmium	mg/kg	<0.015	0.10	10/02/20 14:50	
Chromium	mg/kg	<0.091	0.30	10/02/20 14:50	
Copper	mg/kg	<0.080	0.27	10/02/20 14:50	
Lead	mg/kg	<0.027	0.10	10/02/20 14:50	
Selenium	mg/kg	<0.027	0.10	10/02/20 14:50	
Silver	mg/kg	<0.014	0.050	10/02/20 14:50	
Zinc	mg/kg	<1.0	3.5	10/02/20 14:50	

LABORATORY CONTROL SAMPLE: 2119991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	51.9	104	80-120	
Barium	mg/kg	50	49.7	99	80-120	
Cadmium	mg/kg	50	52.4	105	80-120	
Chromium	mg/kg	50	48.9	98	80-120	
Copper	mg/kg	50	48.4	97	80-120	
Lead	mg/kg	50	46.5	93	80-120	
Selenium	mg/kg	50	51.5	103	80-120	
Silver	mg/kg	25	24.9	100	80-120	
Zinc	mg/kg	50	49.1	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2119992 2119993

Parameter	Units	40215420001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	4.3	53.7	53.7	57.6	58.8	99	101	75-125	2	20	
Barium	mg/kg	25.4	53.7	53.7	87.8	84.6	116	110	75-125	4	20	
Cadmium	mg/kg	0.55J	53.7	53.7	54.9	55.4	101	102	75-125	1	20	
Chromium	mg/kg	10.4	53.7	53.7	63.6	63.5	99	99	75-125	0	20	
Copper	mg/kg	23.5	53.7	53.7	76.1	77.0	98	100	75-125	1	20	
Lead	mg/kg	18.2	53.7	53.7	75.9	75.2	107	106	75-125	1	20	
Selenium	mg/kg	0.79	53.7	53.7	54.5	55.0	100	101	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2119992 2119993

Parameter	Units	40215420001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Silver	mg/kg	0.23J	26.9	26.9	26.2	26.4	97	97	75-125	1	20	
Zinc	mg/kg	62.5	53.7	53.7	126	126	118	119	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

QC Batch: 367217
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40215420002, 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011

METHOD BLANK: 2122800
Matrix: Solid
Associated Lab Samples: 40215420002, 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<7.8	50.0	10/05/20 18:01	
1,1,1-Trichloroethane	ug/kg	<13.5	50.0	10/05/20 18:01	
1,1,2,2-Tetrachloroethane	ug/kg	<15.7	52.0	10/05/20 18:01	
1,1,2-Trichloroethane	ug/kg	<15.7	52.0	10/05/20 18:01	
1,1-Dichloroethane	ug/kg	<13.5	50.0	10/05/20 18:01	
1,1-Dichloroethene	ug/kg	<11.8	50.0	10/05/20 18:01	
1,1-Dichloropropene	ug/kg	<10.7	50.0	10/05/20 18:01	
1,2,3-Trichlorobenzene	ug/kg	<47.3	158	10/05/20 18:01	
1,2,3-Trichloropropane	ug/kg	<37.4	125	10/05/20 18:01	
1,2,4-Trichlorobenzene	ug/kg	<41.7	250	10/05/20 18:01	
1,2,4-Trimethylbenzene	ug/kg	<18.1	60.0	10/05/20 18:01	
1,2-Dibromo-3-chloropropane	ug/kg	<237	789	10/05/20 18:01	
1,2-Dibromoethane (EDB)	ug/kg	<17.0	57.0	10/05/20 18:01	
1,2-Dichlorobenzene	ug/kg	<13.1	50.0	10/05/20 18:01	
1,2-Dichloroethane	ug/kg	<13.8	50.0	10/05/20 18:01	
1,2-Dichloropropane	ug/kg	<13.5	50.0	10/05/20 18:01	
1,3,5-Trimethylbenzene	ug/kg	<16.0	53.0	10/05/20 18:01	
1,3-Dichlorobenzene	ug/kg	<13.0	50.0	10/05/20 18:01	
1,3-Dichloropropane	ug/kg	<11.0	50.0	10/05/20 18:01	
1,4-Dichlorobenzene	ug/kg	<12.0	50.0	10/05/20 18:01	
2,2-Dichloropropane	ug/kg	<15.7	52.0	10/05/20 18:01	
2-Chlorotoluene	ug/kg	<19.3	64.0	10/05/20 18:01	
4-Chlorotoluene	ug/kg	<19.3	64.0	10/05/20 18:01	
Benzene	ug/kg	<12.5	42.0	10/05/20 18:01	
Bromobenzene	ug/kg	<18.5	62.0	10/05/20 18:01	
Bromochloromethane	ug/kg	<20.9	70.0	10/05/20 18:01	
Bromodichloromethane	ug/kg	<10.0	50.0	10/05/20 18:01	
Bromoform	ug/kg	<21.6	72.0	10/05/20 18:01	
Bromomethane	ug/kg	<63.8	250	10/05/20 18:01	
Carbon tetrachloride	ug/kg	<7.5	50.0	10/05/20 18:01	
Chlorobenzene	ug/kg	<16.8	56.0	10/05/20 18:01	
Chloroethane	ug/kg	<46.4	250	10/05/20 18:01	
Chloroform	ug/kg	<47.5	250	10/05/20 18:01	
Chloromethane	ug/kg	<24.0	80.0	10/05/20 18:01	
cis-1,2-Dichloroethene	ug/kg	<14.8	50.0	10/05/20 18:01	
cis-1,3-Dichloropropene	ug/kg	<42.3	141	10/05/20 18:01	
Dibromochloromethane	ug/kg	<229	763	10/05/20 18:01	
Dibromomethane	ug/kg	<17.7	59.0	10/05/20 18:01	
Dichlorodifluoromethane	ug/kg	<21.7	72.0	10/05/20 18:01	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

METHOD BLANK: 2122800 Matrix: Solid

Associated Lab Samples: 40215420002, 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	<14.0	50.0	10/05/20 18:01	
Ethylbenzene	ug/kg	<14.5	50.0	10/05/20 18:01	
Hexachloro-1,3-butadiene	ug/kg	<68.7	229	10/05/20 18:01	
Isopropylbenzene (Cumene)	ug/kg	<17.7	59.0	10/05/20 18:01	
m&p-Xylene	ug/kg	<32.4	108	10/05/20 18:01	
Methyl-tert-butyl ether	ug/kg	<16.2	54.0	10/05/20 18:01	
Methylene Chloride	ug/kg	<26.3	88.0	10/05/20 18:01	
n-Butylbenzene	ug/kg	<30.0	100	10/05/20 18:01	
n-Propylbenzene	ug/kg	<17.8	59.0	10/05/20 18:01	
Naphthalene	ug/kg	<27.3	91.0	10/05/20 18:01	
o-Xylene	ug/kg	<18.1	60.0	10/05/20 18:01	
p-Isopropyltoluene	ug/kg	<21.7	72.0	10/05/20 18:01	
sec-Butylbenzene	ug/kg	<21.5	72.0	10/05/20 18:01	
Styrene	ug/kg	<12.3	50.0	10/05/20 18:01	
tert-Butylbenzene	ug/kg	<18.7	62.0	10/05/20 18:01	
Tetrachloroethene	ug/kg	<38.7	129	10/05/20 18:01	
Toluene	ug/kg	<13.1	50.0	10/05/20 18:01	
trans-1,2-Dichloroethene	ug/kg	<20.2	67.0	10/05/20 18:01	
trans-1,3-Dichloropropene	ug/kg	<22.2	74.0	10/05/20 18:01	
Trichloroethene	ug/kg	<12.8	50.0	10/05/20 18:01	
Trichlorofluoromethane	ug/kg	<19.6	65.0	10/05/20 18:01	
Vinyl chloride	ug/kg	<14.5	50.0	10/05/20 18:01	
4-Bromofluorobenzene (S)	%	83	52-137	10/05/20 18:01	
Dibromofluoromethane (S)	%	96	58-145	10/05/20 18:01	
Toluene-d8 (S)	%	98	56-140	10/05/20 18:01	

LABORATORY CONTROL SAMPLE: 2122801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2180	87	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2460	98	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2630	105	70-130	
1,1-Dichloroethane	ug/kg	2500	2450	98	69-143	
1,1-Dichloroethene	ug/kg	2500	2190	88	73-118	
1,2,4-Trichlorobenzene	ug/kg	2500	2070	83	60-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1840	74	66-130	
1,2-Dibromoethane (EDB)	ug/kg	2500	2670	107	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2700	108	70-130	
1,2-Dichloroethane	ug/kg	2500	2300	92	70-130	
1,2-Dichloropropane	ug/kg	2500	2860	114	78-126	
1,3-Dichlorobenzene	ug/kg	2500	2690	107	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2650	106	70-130	
Benzene	ug/kg	2500	2330	93	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

LABORATORY CONTROL SAMPLE: 2122801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/kg	2500	2390	96	70-130	
Bromoform	ug/kg	2500	2250	90	67-130	
Bromomethane	ug/kg	2500	1950	78	45-134	
Carbon tetrachloride	ug/kg	2500	2280	91	70-130	
Chlorobenzene	ug/kg	2500	2680	107	70-130	
Chloroethane	ug/kg	2500	2850	114	58-143	
Chloroform	ug/kg	2500	2330	93	76-122	
Chloromethane	ug/kg	2500	2340	94	45-120	
cis-1,2-Dichloroethene	ug/kg	2500	2340	94	69-130	
cis-1,3-Dichloropropene	ug/kg	2500	2260	90	70-130	
Dibromochloromethane	ug/kg	2500	2620	105	70-130	
Dichlorodifluoromethane	ug/kg	2500	1410	56	26-99	
Ethylbenzene	ug/kg	2500	2480	99	80-120	
Isopropylbenzene (Cumene)	ug/kg	2500	2550	102	70-130	
m&p-Xylene	ug/kg	5000	5380	108	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2020	81	70-130	
Methylene Chloride	ug/kg	2500	2320	93	70-130	
o-Xylene	ug/kg	2500	2660	106	70-130	
Styrene	ug/kg	2500	2780	111	70-130	
Tetrachloroethene	ug/kg	2500	2590	104	70-130	
Toluene	ug/kg	2500	2630	105	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2290	92	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2210	89	70-130	
Trichloroethene	ug/kg	2500	2550	102	70-130	
Trichlorofluoromethane	ug/kg	2500	2340	94	70-128	
Vinyl chloride	ug/kg	2500	2340	94	53-110	
4-Bromofluorobenzene (S)	%			99	52-137	
Dibromofluoromethane (S)	%			102	58-145	
Toluene-d8 (S)	%			104	56-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2122802 2122803

Parameter	Units	40215420008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<25.0	1380	1380	1080	1120	78	82	66-130	4	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1380	1380	1330	1360	96	99	70-133	3	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1380	1380	1330	1380	97	100	70-130	4	20	
1,1-Dichloroethane	ug/kg	<25.0	1380	1380	1290	1310	94	96	69-143	2	20	
1,1-Dichloroethene	ug/kg	<25.0	1380	1380	1110	1090	81	79	58-120	2	20	
1,2,4-Trichlorobenzene	ug/kg	<41.7	1380	1380	1210	1200	88	87	60-130	0	20	
1,2-Dibromo-3-chloropropane	ug/kg	<237	1380	1380	914	898	66	65	59-136	2	20	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1380	1380	1360	1400	99	102	70-130	2	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1380	1380	1390	1450	101	105	70-130	4	20	
1,2-Dichloroethane	ug/kg	<25.0	1380	1380	1210	1220	88	89	70-136	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2122802 2122803

Parameter	Units	40215420008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloropropane	ug/kg	<25.0	1380	1380	1440	1530	105	111	78-128	6	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1380	1380	1380	1420	101	104	70-130	3	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1380	1380	1380	1450	101	105	70-130	5	20	
Benzene	ug/kg	<25.0	1380	1380	1220	1240	89	90	70-130	1	20	
Bromodichloromethane	ug/kg	<25.0	1380	1380	1160	1220	85	89	70-130	5	20	
Bromoform	ug/kg	<25.0	1380	1380	1130	1170	82	85	63-130	3	20	
Bromomethane	ug/kg	<63.8	1380	1380	1090	1130	79	82	33-146	3	20	
Carbon tetrachloride	ug/kg	<25.0	1380	1380	1140	1140	83	83	65-130	0	20	
Chlorobenzene	ug/kg	<25.0	1380	1380	1380	1410	100	103	70-130	2	20	
Chloroethane	ug/kg	<46.4	1380	1380	1460	1440	106	104	46-156	2	20	
Chloroform	ug/kg	<47.5	1380	1380	1210	1240	88	90	75-130	3	20	
Chloromethane	ug/kg	<25.0	1380	1380	1140	1170	83	85	20-139	2	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1380	1380	1200	1250	87	91	69-130	5	20	
cis-1,3-Dichloropropene	ug/kg	<42.3	1380	1380	1090	1150	80	84	70-130	5	20	
Dibromochloromethane	ug/kg	<229	1380	1380	1280	1310	93	95	70-130	3	20	
Dichlorodifluoromethane	ug/kg	<25.0	1380	1380	687	710	50	52	10-99	3	22	
Ethylbenzene	ug/kg	<25.0	1380	1380	1240	1290	90	94	80-120	4	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1380	1380	1290	1310	94	95	70-130	1	20	
m&p-Xylene	ug/kg	<50.0	2750	2750	2690	2770	97	100	70-130	3	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1380	1380	1050	1080	76	78	70-130	2	20	
Methylene Chloride	ug/kg	<26.3	1380	1380	1160	1240	84	90	70-136	7	20	
o-Xylene	ug/kg	<25.0	1380	1380	1350	1380	97	99	70-130	2	20	
Styrene	ug/kg	<25.0	1380	1380	1330	1390	97	101	70-130	5	20	
Tetrachloroethene	ug/kg	<38.7	1380	1380	1320	1340	96	97	68-130	1	20	
Toluene	ug/kg	<25.0	1380	1380	1350	1380	97	99	80-120	2	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1380	1380	1200	1200	88	87	70-130	0	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1380	1380	1070	1110	78	81	70-130	4	20	
Trichloroethene	ug/kg	<25.0	1380	1380	1320	1350	96	98	70-130	3	20	
Trichlorofluoromethane	ug/kg	<25.0	1380	1380	1170	1170	85	85	53-128	0	20	
Vinyl chloride	ug/kg	<25.0	1380	1380	1150	1160	83	84	32-118	1	20	
4-Bromofluorobenzene (S)	%						91	80	52-137			
Dibromofluoromethane (S)	%						96	87	58-145			
Toluene-d8 (S)	%						99	87	56-140			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

QC Batch: 367350
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40215420001, 40215420012, 40215420013, 40215420014, 40215420015, 40215420016

METHOD BLANK: 2123577 Matrix: Solid
Associated Lab Samples: 40215420001, 40215420012, 40215420013, 40215420014, 40215420015, 40215420016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<7.8	50.0	10/05/20 10:10	
1,1,1-Trichloroethane	ug/kg	<13.5	50.0	10/05/20 10:10	
1,1,2,2-Tetrachloroethane	ug/kg	<15.7	52.0	10/05/20 10:10	
1,1,2-Trichloroethane	ug/kg	<15.7	52.0	10/05/20 10:10	
1,1-Dichloroethane	ug/kg	<13.5	50.0	10/05/20 10:10	
1,1-Dichloroethene	ug/kg	<11.8	50.0	10/05/20 10:10	
1,1-Dichloropropene	ug/kg	<10.7	50.0	10/05/20 10:10	
1,2,3-Trichlorobenzene	ug/kg	<47.3	158	10/05/20 10:10	
1,2,3-Trichloropropane	ug/kg	<37.4	125	10/05/20 10:10	
1,2,4-Trichlorobenzene	ug/kg	<41.7	250	10/05/20 10:10	
1,2,4-Trimethylbenzene	ug/kg	<18.1	60.0	10/05/20 10:10	
1,2-Dibromo-3-chloropropane	ug/kg	<237	789	10/05/20 10:10	
1,2-Dibromoethane (EDB)	ug/kg	<17.0	57.0	10/05/20 10:10	
1,2-Dichlorobenzene	ug/kg	<13.1	50.0	10/05/20 10:10	
1,2-Dichloroethane	ug/kg	<13.8	50.0	10/05/20 10:10	
1,2-Dichloropropane	ug/kg	<13.5	50.0	10/05/20 10:10	
1,3,5-Trimethylbenzene	ug/kg	<16.0	53.0	10/05/20 10:10	
1,3-Dichlorobenzene	ug/kg	<13.0	50.0	10/05/20 10:10	
1,3-Dichloropropane	ug/kg	<11.0	50.0	10/05/20 10:10	
1,4-Dichlorobenzene	ug/kg	<12.0	50.0	10/05/20 10:10	
2,2-Dichloropropane	ug/kg	<15.7	52.0	10/05/20 10:10	
2-Chlorotoluene	ug/kg	<19.3	64.0	10/05/20 10:10	
4-Chlorotoluene	ug/kg	<19.3	64.0	10/05/20 10:10	
Benzene	ug/kg	<12.5	42.0	10/05/20 10:10	
Bromobenzene	ug/kg	<18.5	62.0	10/05/20 10:10	
Bromochloromethane	ug/kg	<20.9	70.0	10/05/20 10:10	
Bromodichloromethane	ug/kg	<10.0	50.0	10/05/20 10:10	
Bromoform	ug/kg	<21.6	72.0	10/05/20 10:10	
Bromomethane	ug/kg	<63.8	250	10/05/20 10:10	
Carbon tetrachloride	ug/kg	<7.5	50.0	10/05/20 10:10	
Chlorobenzene	ug/kg	<16.8	56.0	10/05/20 10:10	
Chloroethane	ug/kg	<46.4	250	10/05/20 10:10	
Chloroform	ug/kg	<47.5	250	10/05/20 10:10	
Chloromethane	ug/kg	<24.0	80.0	10/05/20 10:10	
cis-1,2-Dichloroethene	ug/kg	<14.8	50.0	10/05/20 10:10	
cis-1,3-Dichloropropene	ug/kg	<42.3	141	10/05/20 10:10	
Dibromochloromethane	ug/kg	<229	763	10/05/20 10:10	
Dibromomethane	ug/kg	<17.7	59.0	10/05/20 10:10	
Dichlorodifluoromethane	ug/kg	<21.7	72.0	10/05/20 10:10	
Diisopropyl ether	ug/kg	<14.0	50.0	10/05/20 10:10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

METHOD BLANK: 2123577 Matrix: Solid
Associated Lab Samples: 40215420001, 40215420012, 40215420013, 40215420014, 40215420015, 40215420016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<14.5	50.0	10/05/20 10:10	
Hexachloro-1,3-butadiene	ug/kg	<68.7	229	10/05/20 10:10	
Isopropylbenzene (Cumene)	ug/kg	<17.7	59.0	10/05/20 10:10	
m&p-Xylene	ug/kg	<32.4	108	10/05/20 10:10	
Methyl-tert-butyl ether	ug/kg	<16.2	54.0	10/05/20 10:10	
Methylene Chloride	ug/kg	<26.3	88.0	10/05/20 10:10	
n-Butylbenzene	ug/kg	<30.0	100	10/05/20 10:10	
n-Propylbenzene	ug/kg	<17.8	59.0	10/05/20 10:10	
Naphthalene	ug/kg	<27.3	91.0	10/05/20 10:10	
o-Xylene	ug/kg	<18.1	60.0	10/05/20 10:10	
p-Isopropyltoluene	ug/kg	<21.7	72.0	10/05/20 10:10	
sec-Butylbenzene	ug/kg	<21.5	72.0	10/05/20 10:10	
Styrene	ug/kg	<12.3	50.0	10/05/20 10:10	
tert-Butylbenzene	ug/kg	<18.7	62.0	10/05/20 10:10	
Tetrachloroethene	ug/kg	<38.7	129	10/05/20 10:10	
Toluene	ug/kg	<13.1	50.0	10/05/20 10:10	
trans-1,2-Dichloroethene	ug/kg	<20.2	67.0	10/05/20 10:10	
trans-1,3-Dichloropropene	ug/kg	<22.2	74.0	10/05/20 10:10	
Trichloroethene	ug/kg	<12.8	50.0	10/05/20 10:10	
Trichlorofluoromethane	ug/kg	<19.6	65.0	10/05/20 10:10	
Vinyl chloride	ug/kg	<14.5	50.0	10/05/20 10:10	
4-Bromofluorobenzene (S)	%	79	52-137	10/05/20 10:10	
Dibromofluoromethane (S)	%	87	58-145	10/05/20 10:10	
Toluene-d8 (S)	%	93	56-140	10/05/20 10:10	

LABORATORY CONTROL SAMPLE: 2123578

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2040	82	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2270	91	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2370	95	70-130	
1,1-Dichloroethane	ug/kg	2500	2250	90	69-143	
1,1-Dichloroethene	ug/kg	2500	2010	80	73-118	
1,2,4-Trichlorobenzene	ug/kg	2500	2050	82	60-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1670	67	66-130	
1,2-Dibromoethane (EDB)	ug/kg	2500	2420	97	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2470	99	70-130	
1,2-Dichloroethane	ug/kg	2500	2120	85	70-130	
1,2-Dichloropropane	ug/kg	2500	2540	102	78-126	
1,3-Dichlorobenzene	ug/kg	2500	2440	98	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2430	97	70-130	
Benzene	ug/kg	2500	2130	85	70-130	
Bromodichloromethane	ug/kg	2500	2180	87	70-130	
Bromoform	ug/kg	2500	2060	83	67-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

LABORATORY CONTROL SAMPLE: 2123578

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/kg	2500	1820	73	45-134	
Carbon tetrachloride	ug/kg	2500	2100	84	70-130	
Chlorobenzene	ug/kg	2500	2470	99	70-130	
Chloroethane	ug/kg	2500	2560	102	58-143	
Chloroform	ug/kg	2500	2120	85	76-122	
Chloromethane	ug/kg	2500	2050	82	45-120	
cis-1,2-Dichloroethene	ug/kg	2500	2160	86	69-130	
cis-1,3-Dichloropropene	ug/kg	2500	2120	85	70-130	
Dibromochloromethane	ug/kg	2500	2420	97	70-130	
Dichlorodifluoromethane	ug/kg	2500	1460	58	26-99	
Ethylbenzene	ug/kg	2500	2330	93	80-120	
Isopropylbenzene (Cumene)	ug/kg	2500	2410	96	70-130	
m&p-Xylene	ug/kg	5000	4970	99	70-130	
Methyl-tert-butyl ether	ug/kg	2500	1830	73	70-130	
Methylene Chloride	ug/kg	2500	2070	83	70-130	
o-Xylene	ug/kg	2500	2420	97	70-130	
Styrene	ug/kg	2500	2500	100	70-130	
Tetrachloroethene	ug/kg	2500	2460	99	70-130	
Toluene	ug/kg	2500	2390	95	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2070	83	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2030	81	70-130	
Trichloroethene	ug/kg	2500	2380	95	70-130	
Trichlorofluoromethane	ug/kg	2500	2180	87	70-128	
Vinyl chloride	ug/kg	2500	2100	84	53-110	
4-Bromofluorobenzene (S)	%			86	52-137	
Dibromofluoromethane (S)	%			90	58-145	
Toluene-d8 (S)	%			92	56-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2123579 2123580

Parameter	Units	40215420014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<25.0	1380	1380	1140	1210	83	87	66-130	6	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1380	1380	1320	1380	96	100	70-133	4	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1380	1380	1430	1440	103	104	70-130	1	20	
1,1-Dichloroethane	ug/kg	<25.0	1380	1380	1300	1350	94	98	69-143	4	20	
1,1-Dichloroethene	ug/kg	<25.0	1380	1380	1130	1200	82	87	58-120	6	20	
1,2,4-Trichlorobenzene	ug/kg	<41.7	1380	1380	1280	1270	93	92	60-130	1	20	
1,2-Dibromo-3-chloropropane	ug/kg	<237	1380	1380	971	989	70	72	59-136	2	20	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1380	1380	1450	1450	105	105	70-130	0	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1380	1380	1410	1440	102	104	70-130	3	20	
1,2-Dichloroethane	ug/kg	<25.0	1380	1380	1200	1260	87	91	70-136	5	20	
1,2-Dichloropropane	ug/kg	<25.0	1380	1380	1480	1500	107	109	78-128	1	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1380	1380	1490	1420	108	103	70-130	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2123579 2123580

Parameter	Units	40215420014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/kg	<25.0	1380	1380	1510	1450	109	105	70-130	4	20	
Benzene	ug/kg	<25.0	1380	1380	1270	1290	90	92	70-130	2	20	
Bromodichloromethane	ug/kg	<25.0	1380	1380	1260	1270	91	92	70-130	0	20	
Bromoform	ug/kg	<25.0	1380	1380	1230	1220	89	88	63-130	0	20	
Bromomethane	ug/kg	<63.8	1380	1380	1120	1140	81	83	33-146	2	20	
Carbon tetrachloride	ug/kg	<25.0	1380	1380	1170	1250	84	90	65-130	7	20	
Chlorobenzene	ug/kg	<25.0	1380	1380	1440	1440	104	104	70-130	0	20	
Chloroethane	ug/kg	<46.4	1380	1380	1430	1490	103	108	46-156	5	20	
Chloroform	ug/kg	<47.5	1380	1380	1240	1270	90	92	75-130	2	20	
Chloromethane	ug/kg	<25.0	1380	1380	1050	1110	76	81	20-139	6	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1380	1380	1240	1270	90	92	69-130	3	20	
cis-1,3-Dichloropropene	ug/kg	<42.3	1380	1380	1210	1210	88	87	70-130	0	20	
Dibromochloromethane	ug/kg	<229	1380	1380	1390	1380	101	100	70-130	1	20	
Dichlorodifluoromethane	ug/kg	<25.0	1380	1380	683	741	49	54	10-99	8	22	
Ethylbenzene	ug/kg	<25.0	1380	1380	1340	1360	95	96	80-120	1	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1380	1380	1370	1360	99	99	70-130	0	20	
m&p-Xylene	ug/kg	96.6J	2770	2770	2920	2940	102	103	70-130	1	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1380	1380	1070	1110	77	80	70-130	3	20	
Methylene Chloride	ug/kg	<26.3	1380	1380	1190	1220	86	88	70-136	3	20	
o-Xylene	ug/kg	49.4J	1380	1380	1430	1460	100	102	70-130	2	20	
Styrene	ug/kg	<25.0	1380	1380	1420	1420	103	103	70-130	0	20	
Tetrachloroethene	ug/kg	<38.7	1380	1380	1480	1420	107	102	68-130	4	20	
Toluene	ug/kg	116	1380	1380	1530	1510	102	101	80-120	1	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1380	1380	1210	1250	88	91	70-130	3	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1380	1380	1160	1210	84	88	70-130	4	20	
Trichloroethene	ug/kg	<25.0	1380	1380	1380	1390	100	100	70-130	1	20	
Trichlorofluoromethane	ug/kg	<25.0	1380	1380	1200	1280	86	93	53-128	7	20	
Vinyl chloride	ug/kg	<25.0	1380	1380	1100	1160	79	84	32-118	5	20	
4-Bromofluorobenzene (S)	%						86	86	52-137			
Dibromofluoromethane (S)	%						91	92	58-145			
Toluene-d8 (S)	%						96	93	56-140			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

QC Batch: 701891
QC Batch Method: EPA 3550
Analysis Method: EPA 8081B
Analysis Description: 8081S GCS Pesticides
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 40215420001, 40215420002, 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011, 40215420012, 40215420013, 40215420014, 40215420015

METHOD BLANK: 3749372 Matrix: Solid
Associated Lab Samples: 40215420001, 40215420002, 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011, 40215420012, 40215420013, 40215420014, 40215420015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/kg	<0.39	1.3	10/02/20 13:36	
4,4'-DDE	ug/kg	<0.36	1.2	10/02/20 13:36	
4,4'-DDT	ug/kg	<0.82	2.7	10/02/20 13:36	
Aldrin	ug/kg	<0.54	1.8	10/02/20 13:36	
alpha-BHC	ug/kg	<0.23	0.76	10/02/20 13:36	
alpha-Chlordane	ug/kg	<0.23	0.77	10/02/20 13:36	
beta-BHC	ug/kg	<0.38	1.3	10/02/20 13:36	
Chlordane (Technical)	ug/kg	<5.5	18.3	10/02/20 13:36	
delta-BHC	ug/kg	<0.29	0.97	10/02/20 13:36	
Dieldrin	ug/kg	<0.35	1.2	10/02/20 13:36	
Endosulfan I	ug/kg	<0.28	0.93	10/02/20 13:36	
Endosulfan II	ug/kg	<0.55	1.8	10/02/20 13:36	
Endosulfan sulfate	ug/kg	<0.67	2.2	10/02/20 13:36	
Endrin	ug/kg	<0.38	1.3	10/02/20 13:36	
Endrin aldehyde	ug/kg	<0.75	2.5	10/02/20 13:36	
Endrin ketone	ug/kg	<0.92	3.1	10/02/20 13:36	
gamma-BHC (Lindane)	ug/kg	<0.21	0.71	10/02/20 13:36	
gamma-Chlordane	ug/kg	<0.54	1.8	10/02/20 13:36	
Heptachlor	ug/kg	<0.38	1.3	10/02/20 13:36	
Heptachlor epoxide	ug/kg	<0.26	0.86	10/02/20 13:36	
Methoxychlor	ug/kg	<5.5	18.4	10/02/20 13:36	
Toxaphene	ug/kg	<14.8	49.3	10/02/20 13:36	
Decachlorobiphenyl (S)	%.	93	30-150	10/02/20 13:36	
Tetrachloro-m-xylene (S)	%.	95	30-150	10/02/20 13:36	

LABORATORY CONTROL SAMPLE & LCSD: 3749373 3749782

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
4,4'-DDD	ug/kg	33.3	32.6	33.8	98	101	71-125	3	20	
4,4'-DDE	ug/kg	33.3	35.8	37.2	108	112	75-128	4	20	
4,4'-DDT	ug/kg	33.3	38.6	39.8	116	119	70-136	3	20	
Aldrin	ug/kg	16.7	15.4	16.1	93	96	66-132	4	20	
alpha-BHC	ug/kg	16.7	14.5	15.3	87	92	64-133	5	20	
alpha-Chlordane	ug/kg	16.7	16.4	17.0	98	102	70-126	4	20	
beta-BHC	ug/kg	16.7	15.3	16.0	92	96	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

LABORATORY CONTROL SAMPLE & LCSD: 3749373 3749782

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
delta-BHC	ug/kg	16.7	8.7	9.0	52	54	30-143	3	20	
Dieldrin	ug/kg	33.3	30.8	31.9	92	96	75-127	4	20	
Endosulfan I	ug/kg	16.7	15.8	16.4	95	99	57-135	4	20	
Endosulfan II	ug/kg	33.3	32.4	33.6	97	101	68-131	4	20	
Endosulfan sulfate	ug/kg	33.3	29.5	30.5	89	91	65-132	3	20	
Endrin	ug/kg	33.3	33.9	35.1	102	105	74-132	3	20	
Endrin aldehyde	ug/kg	33.3	31.9	32.9	96	99	75-125	3	20	
Endrin ketone	ug/kg	33.3	32.1	33.3	96	100	69-133	4	20	
gamma-BHC (Lindane)	ug/kg	16.7	15.3	16.0	92	96	66-130	5	20	
gamma-Chlordane	ug/kg	16.7	16.3	16.8	98	101	66-128	3	20	
Heptachlor	ug/kg	16.7	15.8	16.2	95	97	70-128	2	20	
Heptachlor epoxide	ug/kg	16.7	15.6	16.2	94	97	67-130	3	20	
Methoxychlor	ug/kg	167	188	194	113	117	64-144	3	20	
Decachlorobiphenyl (S)	%.				98	101	30-150			
Tetrachloro-m-xylene (S)	%.				96	99	30-150			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

QC Batch: 366724
QC Batch Method: EPA 3541
Analysis Method: EPA 8082A
Analysis Description: 8082 GCS PCB
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40215420001, 40215420002, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011, 40215420012, 40215420013, 40215420014, 40215420015

METHOD BLANK: 2119870 Matrix: Solid
Associated Lab Samples: 40215420001, 40215420002, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011, 40215420012, 40215420013, 40215420014, 40215420015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<15.2	50.0	09/29/20 12:00	
PCB-1221 (Aroclor 1221)	ug/kg	<15.2	50.0	09/29/20 12:00	
PCB-1232 (Aroclor 1232)	ug/kg	<15.2	50.0	09/29/20 12:00	
PCB-1242 (Aroclor 1242)	ug/kg	<15.2	50.0	09/29/20 12:00	
PCB-1248 (Aroclor 1248)	ug/kg	<15.2	50.0	09/29/20 12:00	
PCB-1254 (Aroclor 1254)	ug/kg	<15.2	50.0	09/29/20 12:00	
PCB-1260 (Aroclor 1260)	ug/kg	<15.2	50.0	09/29/20 12:00	
Decachlorobiphenyl (S)	%	98	62-104	09/29/20 12:00	
Tetrachloro-m-xylene (S)	%	93	69-115	09/29/20 12:00	

LABORATORY CONTROL SAMPLE: 2119871

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<15.2			
PCB-1221 (Aroclor 1221)	ug/kg		<15.2			
PCB-1232 (Aroclor 1232)	ug/kg		<15.2			
PCB-1242 (Aroclor 1242)	ug/kg		<15.2			
PCB-1248 (Aroclor 1248)	ug/kg		<15.2			
PCB-1254 (Aroclor 1254)	ug/kg		<15.2			
PCB-1260 (Aroclor 1260)	ug/kg	500	487	97	59-119	
Decachlorobiphenyl (S)	%			98	62-104	
Tetrachloro-m-xylene (S)	%			93	69-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2119872 2119873

Parameter	Units	40215420007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<16.2			<16.2	<16.2					20	
PCB-1221 (Aroclor 1221)	ug/kg	<16.2			<16.2	<16.2					20	
PCB-1232 (Aroclor 1232)	ug/kg	<16.2			<16.2	<16.2					20	
PCB-1242 (Aroclor 1242)	ug/kg	<16.2			<16.2	<16.2					20	
PCB-1248 (Aroclor 1248)	ug/kg	<16.2			<16.2	<16.2					20	
PCB-1254 (Aroclor 1254)	ug/kg	22.7J			<16.2	<16.2					20	
PCB-1260 (Aroclor 1260)	ug/kg	<16.2	531	532	458	460	86	86	55-123	1	20	
Decachlorobiphenyl (S)	%						87	87	62-104			
Tetrachloro-m-xylene (S)	%						85	88	69-115			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

QC Batch: 366951
QC Batch Method: EPA 3541
Analysis Method: EPA 8082A
Analysis Description: 8082 GCS PCB
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40215420003

METHOD BLANK: 2121139 Matrix: Solid
Associated Lab Samples: 40215420003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<15.2	50.0	10/01/20 19:21	
PCB-1221 (Aroclor 1221)	ug/kg	<15.2	50.0	10/01/20 19:21	
PCB-1232 (Aroclor 1232)	ug/kg	<15.2	50.0	10/01/20 19:21	
PCB-1242 (Aroclor 1242)	ug/kg	<15.2	50.0	10/01/20 19:21	
PCB-1248 (Aroclor 1248)	ug/kg	<15.2	50.0	10/01/20 19:21	
PCB-1254 (Aroclor 1254)	ug/kg	<15.2	50.0	10/01/20 19:21	
PCB-1260 (Aroclor 1260)	ug/kg	<15.2	50.0	10/01/20 19:21	
Decachlorobiphenyl (S)	%	93	62-104	10/01/20 19:21	
Tetrachloro-m-xylene (S)	%	88	69-115	10/01/20 19:21	

LABORATORY CONTROL SAMPLE: 2121140

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<15.2			
PCB-1221 (Aroclor 1221)	ug/kg		<15.2			
PCB-1232 (Aroclor 1232)	ug/kg		<15.2			
PCB-1242 (Aroclor 1242)	ug/kg		<15.2			
PCB-1248 (Aroclor 1248)	ug/kg		<15.2			
PCB-1254 (Aroclor 1254)	ug/kg		<15.2			
PCB-1260 (Aroclor 1260)	ug/kg	500	451	90	59-119	
Decachlorobiphenyl (S)	%			95	62-104	
Tetrachloro-m-xylene (S)	%			88	69-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2121141 2121142

Parameter	Units	40215534074 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	ND			<16.8	<16.8					20	
PCB-1221 (Aroclor 1221)	ug/kg	ND			<16.8	<16.8					20	
PCB-1232 (Aroclor 1232)	ug/kg	ND			<16.8	<16.8					20	
PCB-1242 (Aroclor 1242)	ug/kg	ND			<16.8	<16.8					20	
PCB-1248 (Aroclor 1248)	ug/kg	ND			<16.8	<16.8					20	
PCB-1254 (Aroclor 1254)	ug/kg	ND			<16.8	<16.8					20	
PCB-1260 (Aroclor 1260)	ug/kg	ND	553	551	436	458	79	83	55-123	5	20	
Decachlorobiphenyl (S)	%						85	88	62-104			
Tetrachloro-m-xylene (S)	%						82	85	69-115			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

QC Batch: 367157
QC Batch Method: EPA 3546
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270/3546 MSSV PAH by SIM
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40215420001, 40215420002, 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011, 40215420012, 40215420013, 40215420014, 40215420015

METHOD BLANK: 2122349 Matrix: Solid
Associated Lab Samples: 40215420001, 40215420002, 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011, 40215420012, 40215420013, 40215420014, 40215420015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<2.4	16.7	10/02/20 11:07	
2-Methylnaphthalene	ug/kg	<2.4	16.7	10/02/20 11:07	
Acenaphthene	ug/kg	<2.2	16.7	10/02/20 11:07	
Acenaphthylene	ug/kg	<2.1	16.7	10/02/20 11:07	
Anthracene	ug/kg	<2.1	16.7	10/02/20 11:07	
Benzo(a)anthracene	ug/kg	<2.2	16.7	10/02/20 11:07	
Benzo(a)pyrene	ug/kg	<1.9	16.7	10/02/20 11:07	
Benzo(b)fluoranthene	ug/kg	<2.3	16.7	10/02/20 11:07	
Benzo(g,h,i)perylene	ug/kg	<2.9	16.7	10/02/20 11:07	
Benzo(k)fluoranthene	ug/kg	<2.1	16.7	10/02/20 11:07	
Chrysene	ug/kg	<3.1	16.7	10/02/20 11:07	
Dibenz(a,h)anthracene	ug/kg	<2.3	16.7	10/02/20 11:07	
Fluoranthene	ug/kg	<2.0	16.7	10/02/20 11:07	
Fluorene	ug/kg	<2.0	16.7	10/02/20 11:07	
Indeno(1,2,3-cd)pyrene	ug/kg	<3.5	16.7	10/02/20 11:07	
Naphthalene	ug/kg	<1.6	16.7	10/02/20 11:07	
Phenanthrene	ug/kg	<1.9	16.7	10/02/20 11:07	
Pyrene	ug/kg	<2.5	16.7	10/02/20 11:07	
2-Fluorobiphenyl (S)	%	77	17-100	10/02/20 11:07	
Terphenyl-d14 (S)	%	96	17-98	10/02/20 11:07	

LABORATORY CONTROL SAMPLE: 2122350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	334	264	79	58-101	
2-Methylnaphthalene	ug/kg	334	262	78	59-101	
Acenaphthene	ug/kg	334	262	79	62-97	
Acenaphthylene	ug/kg	334	264	79	67-102	
Anthracene	ug/kg	334	286	86	69-120	
Benzo(a)anthracene	ug/kg	334	251	75	59-101	
Benzo(a)pyrene	ug/kg	334	326	98	70-110	
Benzo(b)fluoranthene	ug/kg	334	304	91	66-111	
Benzo(g,h,i)perylene	ug/kg	334	302	90	64-106	
Benzo(k)fluoranthene	ug/kg	334	313	94	65-108	
Chrysene	ug/kg	334	276	83	61-102	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

LABORATORY CONTROL SAMPLE: 2122350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibenz(a,h)anthracene	ug/kg	334	308	92	64-120	
Fluoranthene	ug/kg	334	284	85	69-120	
Fluorene	ug/kg	334	280	84	70-99	
Indeno(1,2,3-cd)pyrene	ug/kg	334	309	93	66-120	
Naphthalene	ug/kg	334	250	75	60-95	
Phenanthrene	ug/kg	334	269	81	66-98	
Pyrene	ug/kg	334	266	80	63-120	
2-Fluorobiphenyl (S)	%			74	17-100	
Terphenyl-d14 (S)	%			86	17-98	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2122351 2122352

Parameter	Units	40215403015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	<2.5	347	348	241	236	69	67	48-101	2	25	
2-Methylnaphthalene	ug/kg	3.8J	347	348	241	237	68	67	46-101	2	21	
Acenaphthene	ug/kg	9.3J	347	348	229	223	63	62	52-97	3	20	
Acenaphthylene	ug/kg	<2.2	347	348	221	223	63	64	51-102	1	20	
Anthracene	ug/kg	15.9J	347	348	243	232	65	62	54-120	4	20	
Benzo(a)anthracene	ug/kg	48.4	347	348	240	225	55	51	34-101	6	22	
Benzo(a)pyrene	ug/kg	60.1	347	348	306	276	71	62	46-110	10	25	
Benzo(b)fluoranthene	ug/kg	80.8	347	348	344	283	76	58	40-111	19	23	
Benzo(g,h,i)perylene	ug/kg	55.2	347	348	235	225	52	49	40-120	4	24	
Benzo(k)fluoranthene	ug/kg	34.9	347	348	272	287	68	73	47-108	5	24	
Chrysene	ug/kg	56.6	347	348	264	230	60	50	35-115	14	20	
Dibenz(a,h)anthracene	ug/kg	10.1J	347	348	237	236	65	65	46-120	0	21	
Fluoranthene	ug/kg	126	347	348	332	267	60	41	52-120	22	23	M1
Fluorene	ug/kg	7.6J	347	348	241	239	67	67	54-99	1	20	
Indeno(1,2,3-cd)pyrene	ug/kg	32.4	347	348	242	237	61	59	46-120	2	22	
Naphthalene	ug/kg	2.2J	347	348	222	221	63	63	46-95	0	23	
Phenanthrene	ug/kg	76.0	347	348	283	238	60	47	51-98	17	20	M1
Pyrene	ug/kg	82.3	347	348	255	215	50	38	46-120	17	24	M1
2-Fluorobiphenyl (S)	%						62	61	17-100			
Terphenyl-d14 (S)	%						66	66	17-98			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

QC Batch: 366719
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40215420001, 40215420002

SAMPLE DUPLICATE: 2119853

Parameter	Units	40215367007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.5	5.1	9	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

QC Batch: 366720
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40215420003, 40215420004, 40215420005, 40215420006, 40215420007, 40215420008, 40215420009, 40215420010, 40215420011, 40215420012, 40215420013, 40215420014, 40215420015

SAMPLE DUPLICATE: 2119865

Parameter	Units	40215424001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.6	4.7	2	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALIFIERS

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 702177

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
W	Non-detect results are reported on a wet weight basis.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40215420001	**GP-1, 0.2-5.5'**	EPA 3550	701891	EPA 8081B	702177
40215420002	**GP-4, 0.0-4.0'**	EPA 3550	701891	EPA 8081B	702177
40215420003	**GP-6, 0.2-5.0'**	EPA 3550	701891	EPA 8081B	702177
40215420004	**GP-10, 0.3-4.0'**	EPA 3550	701891	EPA 8081B	702177
40215420005	**GP-11, 0.3-4.5'**	EPA 3550	701891	EPA 8081B	702177
40215420006	**GP-3, 0.1-4.0'**	EPA 3550	701891	EPA 8081B	702177
40215420007	**GP-2, 0.2-4.5' UPPER**	EPA 3550	701891	EPA 8081B	702177
40215420008	**GP-2, 0.2-4.5' LOWER**	EPA 3550	701891	EPA 8081B	702177
40215420009	**GP-8, 0.3-6.5'**	EPA 3550	701891	EPA 8081B	702177
40215420010	**GP-7, 0.3-5.0'**	EPA 3550	701891	EPA 8081B	702177
40215420011	**GP-9, 0.2-4.0'**	EPA 3550	701891	EPA 8081B	702177
40215420012	**GP-12, 0.2-5.0'**	EPA 3550	701891	EPA 8081B	702177
40215420013	**GP-12, 5.0-7.5'**	EPA 3550	701891	EPA 8081B	702177
40215420014	**GP-13, 0.2-4.0'**	EPA 3550	701891	EPA 8081B	702177
40215420015	**GP-5, 0.2-4.0'**	EPA 3550	701891	EPA 8081B	702177
40215420001	**GP-1, 0.2-5.5'**	EPA 3541	366724	EPA 8082A	366738
40215420002	**GP-4, 0.0-4.0'**	EPA 3541	366724	EPA 8082A	366738
40215420003	**GP-6, 0.2-5.0'**	EPA 3541	366951	EPA 8082A	367041
40215420004	**GP-10, 0.3-4.0'**	EPA 3541	366724	EPA 8082A	366738
40215420005	**GP-11, 0.3-4.5'**	EPA 3541	366724	EPA 8082A	366738
40215420006	**GP-3, 0.1-4.0'**	EPA 3541	366724	EPA 8082A	366738
40215420007	**GP-2, 0.2-4.5' UPPER**	EPA 3541	366724	EPA 8082A	366738
40215420008	**GP-2, 0.2-4.5' LOWER**	EPA 3541	366724	EPA 8082A	366738
40215420009	**GP-8, 0.3-6.5'**	EPA 3541	366724	EPA 8082A	366738
40215420010	**GP-7, 0.3-5.0'**	EPA 3541	366724	EPA 8082A	366738
40215420011	**GP-9, 0.2-4.0'**	EPA 3541	366724	EPA 8082A	366738
40215420012	**GP-12, 0.2-5.0'**	EPA 3541	366724	EPA 8082A	366738
40215420013	**GP-12, 5.0-7.5'**	EPA 3541	366724	EPA 8082A	366738
40215420014	**GP-13, 0.2-4.0'**	EPA 3541	366724	EPA 8082A	366738
40215420015	**GP-5, 0.2-4.0'**	EPA 3541	366724	EPA 8082A	366738
40215420001	**GP-1, 0.2-5.5'**	EPA 3050	366768	EPA 6020	366844
40215420002	**GP-4, 0.0-4.0'**	EPA 3050	366768	EPA 6020	366844
40215420003	**GP-6, 0.2-5.0'**	EPA 3050	366768	EPA 6020	366844
40215420004	**GP-10, 0.3-4.0'**	EPA 3050	366768	EPA 6020	366844
40215420005	**GP-11, 0.3-4.5'**	EPA 3050	366768	EPA 6020	366844
40215420006	**GP-3, 0.1-4.0'**	EPA 3050	366768	EPA 6020	366844
40215420007	**GP-2, 0.2-4.5' UPPER**	EPA 3050	366768	EPA 6020	366844
40215420008	**GP-2, 0.2-4.5' LOWER**	EPA 3050	366768	EPA 6020	366844
40215420009	**GP-8, 0.3-6.5'**	EPA 3050	366768	EPA 6020	366844
40215420010	**GP-7, 0.3-5.0'**	EPA 3050	366768	EPA 6020	366844
40215420011	**GP-9, 0.2-4.0'**	EPA 3050	366768	EPA 6020	366844
40215420012	**GP-12, 0.2-5.0'**	EPA 3050	366768	EPA 6020	366844
40215420013	**GP-12, 5.0-7.5'**	EPA 3050	366768	EPA 6020	366844
40215420014	**GP-13, 0.2-4.0'**	EPA 3050	366768	EPA 6020	366844
40215420015	**GP-5, 0.2-4.0'**	EPA 3050	366768	EPA 6020	366844
40215420001	**GP-1, 0.2-5.5'**	EPA 7471	367571	EPA 7471	367616

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40215420002	GP-4, 0.0-4.0'	EPA 7471	367571	EPA 7471	367616
40215420003	GP-6, 0.2-5.0'	EPA 7471	367571	EPA 7471	367616
40215420004	GP-10, 0.3-4.0'	EPA 7471	367571	EPA 7471	367616
40215420005	GP-11, 0.3-4.5'	EPA 7471	367571	EPA 7471	367616
40215420006	GP-3, 0.1-4.0'	EPA 7471	367571	EPA 7471	367616
40215420007	GP-2, 0.2-4.5' UPPER	EPA 7471	367571	EPA 7471	367616
40215420008	GP-2, 0.2-4.5' LOWER	EPA 7471	367571	EPA 7471	367616
40215420009	GP-8, 0.3-6.5'	EPA 7471	367571	EPA 7471	367616
40215420010	GP-7, 0.3-5.0'	EPA 7471	367571	EPA 7471	367616
40215420011	GP-9, 0.2-4.0'	EPA 7471	367571	EPA 7471	367616
40215420012	GP-12, 0.2-5.0'	EPA 7471	367571	EPA 7471	367616
40215420013	GP-12, 5.0-7.5'	EPA 7471	367571	EPA 7471	367616
40215420014	GP-13, 0.2-4.0'	EPA 7471	367571	EPA 7471	367616
40215420015	GP-5, 0.2-4.0'	EPA 7471	367571	EPA 7471	367616
40215420001	GP-1, 0.2-5.5'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420002	GP-4, 0.0-4.0'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420003	GP-6, 0.2-5.0'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420004	GP-10, 0.3-4.0'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420005	GP-11, 0.3-4.5'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420006	GP-3, 0.1-4.0'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420007	GP-2, 0.2-4.5' UPPER	EPA 3546	367157	EPA 8270 by SIM	367194
40215420008	GP-2, 0.2-4.5' LOWER	EPA 3546	367157	EPA 8270 by SIM	367194
40215420009	GP-8, 0.3-6.5'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420010	GP-7, 0.3-5.0'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420011	GP-9, 0.2-4.0'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420012	GP-12, 0.2-5.0'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420013	GP-12, 5.0-7.5'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420014	GP-13, 0.2-4.0'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420015	GP-5, 0.2-4.0'	EPA 3546	367157	EPA 8270 by SIM	367194
40215420001	GP-1, 0.2-5.5'	EPA 5035/5030B	367350	EPA 8260	367352
40215420002	GP-4, 0.0-4.0'	EPA 5035/5030B	367217	EPA 8260	367218
40215420003	GP-6, 0.2-5.0'	EPA 5035/5030B	367217	EPA 8260	367218
40215420004	GP-10, 0.3-4.0'	EPA 5035/5030B	367217	EPA 8260	367218
40215420005	GP-11, 0.3-4.5'	EPA 5035/5030B	367217	EPA 8260	367218
40215420006	GP-3, 0.1-4.0'	EPA 5035/5030B	367217	EPA 8260	367218
40215420007	GP-2, 0.2-4.5' UPPER	EPA 5035/5030B	367217	EPA 8260	367218
40215420008	GP-2, 0.2-4.5' LOWER	EPA 5035/5030B	367217	EPA 8260	367218
40215420009	GP-8, 0.3-6.5'	EPA 5035/5030B	367217	EPA 8260	367218
40215420010	GP-7, 0.3-5.0'	EPA 5035/5030B	367217	EPA 8260	367218
40215420011	GP-9, 0.2-4.0'	EPA 5035/5030B	367217	EPA 8260	367218
40215420012	GP-12, 0.2-5.0'	EPA 5035/5030B	367350	EPA 8260	367352
40215420013	GP-12, 5.0-7.5'	EPA 5035/5030B	367350	EPA 8260	367352
40215420014	GP-13, 0.2-4.0'	EPA 5035/5030B	367350	EPA 8260	367352
40215420015	GP-5, 0.2-4.0'	EPA 5035/5030B	367350	EPA 8260	367352
40215420016	MEOH BLANK	EPA 5035/5030B	367350	EPA 8260	367352
40215420001	GP-1, 0.2-5.5'	ASTM D2974-87	366719		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 19M106.20 FMM B34/B35 SUPPLMEN
Pace Project No.: 40215420

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40215420002	**GP-4, 0.0-4.0'**	ASTM D2974-87	366719		
40215420003	**GP-6, 0.2-5.0'**	ASTM D2974-87	366720		
40215420004	**GP-10, 0.3-4.0'**	ASTM D2974-87	366720		
40215420005	**GP-11, 0.3-4.5'**	ASTM D2974-87	366720		
40215420006	**GP-3, 0.1-4.0'**	ASTM D2974-87	366720		
40215420007	**GP-2, 0.2-4.5' UPPER**	ASTM D2974-87	366720		
40215420008	**GP-2, 0.2-4.5' LOWER**	ASTM D2974-87	366720		
40215420009	**GP-8, 0.3-6.5'**	ASTM D2974-87	366720		
40215420010	**GP-7, 0.3-5.0'**	ASTM D2974-87	366720		
40215420011	**GP-9, 0.2-4.0'**	ASTM D2974-87	366720		
40215420012	**GP-12, 0.2-5.0'**	ASTM D2974-87	366720		
40215420013	**GP-12, 5.0-7.5'**	ASTM D2974-87	366720		
40215420014	**GP-13, 0.2-4.0'**	ASTM D2974-87	366720		
40215420015	**GP-5, 0.2-4.0'**	ASTM D2974-87	366720		

4021542O

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

1 of 2

Lab Information:

Lab Name:	Pace Analytical Services, Inc.
Address:	1241 Bellevue Street, Ste. 9, Green Bay, WI 54302
Lab PM:	Tod Noltemeyer
Phone/Fax:	608.232.3300
Lab PM email:	Tod.Noltemeyer@pacelabs.com
Applicable Lab Quote #	

Project Information:

Site ID #:	FMM B34/B35 Supplemental Yard Inv.
Project #:	19M106.20
Site Address:	Fincantieri Marinette Marine 1600 Ely Street
City-State-Zip:	Marinette, WI 54143
Site PM Name:	Denis Roznowski
Phone/Fax:	(920) 496-6756
Sampler Name:	Rick Panosh, Bob Meller

Other Information:

Send invoice to:	invoices@foth.com
Address:	2121 Innovation Ct.
City/State:	De Pere WI 54115
Phone #:	920-496-6687
Foth Project No.:	19M106.20
Send EDD to:	Steve.Lehrke@foth.com
CC Hard copy report to:	
CC Electronic reports (lab report and data in spreadsheet format):	denis.roznowski@foth.com; rick.panosh@foth.com; steve.lehrke@foth.com;

Task: Sediment/Soil Chemistry Sampling

Turn Around Time: Standard

QC level Required: Standard Level II Report

ITEM #	Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	MATRIX CODE	G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	Comments/Lab Sample I.D.	Preservative: Soil/Sediment = MeOH	Soil/Sediment = MeOH	Soil/Sediment = None	Soil/Sediment = None	Soil/Sediment = None	Soil/Sediment = None	Soil/Sediment = None	Soil/Sediment = None		Soil/Sediment = None				
Analysis									VOC (EPA 8260)	PVOC (EPA 8260)	PAH (EPA 8270-SIM)	Total PCBs (EPA 8082A)	RCRA Metals - Total (EPA 6020 & 7471)	Cu and Zn Metals - Total (EPA 6020)	Pesticides EPA 8081B	Percent Moisture		HOLD FOR INSTRUCTIONS				
1	GP-1, 0.2 - 5.5'	GP-1	Soil	C	9/23/20	1310	3		X		X	X	X	X	X	X						001
2	GP-4, 0.0 - 4.0'	GP-4	Soil	C	9/23/20	1515	3		X		X	X	X	X	X	X						002
3	GP-6, 0.2 - 5.0'	GP-6	Soil	C	9/23/20	1702	3		X		X	X	X	X	X	X						003
4	GP-10, 0.3 - 4.0'	GP-10	Soil	C	9/23/20	1205	3		X		X	X	X	X	X	X						004
5	GP-11, 0.3 - 4.5'	GP-11	Soil	C	9/23/20	1114	3		X		X	X	X	X	X	X						005
6	GP-3, 0.1 - 4.0'	GP-3	Soil	C	9/24/20	0836	3		X		X	X	X	X	X	X						006
7	GP-2, 0.2 - 4.5' Upper	GP-2	Soil	C	9/24/20	1040	3		X		X	X	X	X	X	X						007
8	GP-2, 0.2 - 4.5' Lower	GP-2	Soil	C	9/24/20	1040	3		X		X	X	X	X	X	X						008
9	GP-8, 0.3 - 6.5'	GP-8	Soil	C	9/24/20	1055	3		X		X	X	X	X	X	X						009
10	GP-7, 0.3 - 5.0'	GP-7	Soil	C	9/24/20	1108	3		X		X	X	X	X	X	X						010

Additional Comments/Special Instructions:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	9-25-20	1512	Sam Kipp Pace	9/25/20	1572

Sample Receipt Conditions

Temp in OC	Samples on Ice?	Sample Intact?	Trip Blank?
3.0	(Y)N	(Y)N	(Y)N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SHIPPING INFO

Company: FedEx

Tracking #:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Rick Panosh

SIGNATURE of SAMPLER: [signature]

DATE Signed: 9-25-20

TIME: 1200

4021520

2 of 2

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

Lab Information:

Lab Name:	Pace Analytical Services, Inc.
Address:	1241 Bellevue Street, Ste. 9, Green Bay, WI 54302
Lab PM:	Tod Nottemeyer
Phone/Fax:	608.232.3300
Lab PM email:	Tod.Nottemeyer@pacelabs.com
Applicable Lab Quote #	

Project Information:

Site ID #:	FMM B34/B35 Supplemental Yard Inv.
Project #:	19M106.20
Site Address:	Fincantieri Marinette Marine 1600 Ely Street
City-State-Zip:	Marinette, WI 54143
Site PM Name:	Denis Roznowski
Phone/Fax:	(920) 496-6756
Sampler Name:	Rick Panosh, Bob Meller

Other Information:

Send Invoice to:	invoices@foth.com
Address:	2121 Innovation Ct.
City/State:	De Pere WI 54115
Phone #:	920-496-6687
Foth Project No.:	19M106.20
Send EDD to:	Steve.Lehrke@foth.com
CC Hard copy report to:	
CC Electronic reports (lab report and data in spreadsheet format):	denis.roznowski@foth.com; rick.panosh@foth.com; steve.lehrke@foth.com;

Task: Sediment/Soil Chemistry Sampling

Turn Around Time: Standard

QC level Required: Standard Level II Report

ITEM #	Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	MATRIX CODE	G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	Comments/Lab Sample I.D.	Preservative: Soil/Sediment = MeOH	Soil/Sediment = MeOH	Soil/Sediment = None	Soil/Sediment = None	Soil/Sediment = None	Soil/Sediment = None	Soil/Sediment = None	Soil/Sediment = None		Soil/Sediment = None					
Analysis:									VOC (EPA 8260)	PVOC (EPA 8260)	PAH (EPA 8270-SIM)	Total PCBs (EPA 8082A)	RCRA Metals - Total (EPA 6020 & 7471)	Cu and Zn Metals - Total (EPA 6020)	Pesticides EPA 8081B)	Percent Moisture		HOLD FOR INSTRUCTIONS					
1	GP-9, 0.2 - 4.0'	GP-9	Soil	C	9/24/20	1143	3		X		X	X	X	X	X	X							011
2	GP-12, 0.2 - 5.0'	GP-12	Soil	C	9/24/20	1215	3		X		X	X	X	X	X	X							012
3	GP-12, 5.0 - 7.5'	GP-12	Soil	C	9/24/20	1220	3		X		X	X	X	X	X	X							013
4	GP-13, 0.2 - 4.0'	GP-13	Soil	C	9/24/20	1225	3		X		X	X	X	X	X	X							014
5	GP-5, 0.2 - 4.0'	GP-5	Soil	C	9/24/20	1245	3		X		X	X	X	X	X	X							015
6	MeOH Blank		MeOH	G	9/23/20		2		X														016
7																							
8																							
9																							
10																							

Additional Comments/Special Instructions:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	9-25-20	1512	Sean Kipp Pace	9/25/20	1512

Sample Receipt Conditions

3.0	Q N	Q N	Q N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Temp in OC	Samples on Ice?	Sample Intact?	Trip Blank?

SHIPPING INFO

Company: FedEx

Tracking #:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Rick Panosh

SIGNATURE of SAMPLER: [signature]

DATE Signed: 9-25-20

Time: 1208

Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: Foth Project # 40215420

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass								Plastic					Vials						Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN						
001																		2		1												2.5 / 5 / 10
002																		2		1												2.5 / 5 / 10
003																		2		1												2.5 / 5 / 10
004																		2		1												2.5 / 5 / 10
005																		2		1												2.5 / 5 / 10
006																		2		1												2.5 / 5 / 10
007																		2		1												2.5 / 5 / 10
008																		2		1												2.5 / 5 / 10
009																		2		1												2.5 / 5 / 10
010																		2		1												2.5 / 5 / 10
011																		2		1												2.5 / 5 / 10
012																		2		1												2.5 / 5 / 10
013																		2		1												2.5 / 5 / 10
014																		2		1												2.5 / 5 / 10
015																		2		1												2.5 / 5 / 10
016																		2														2.5 / 5 / 10
017																																2.5 / 5 / 10
018																																2.5 / 5 / 10
019																									9/25/20							2.5 / 5 / 10
020																									GRK							2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:_____ Headspace in VOA Vials (>6mm) : □Yes □No ☒N/A ***If yes look in headspace column**

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40215420

40215420

Client Name: Foth

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☒ Client ☐ Pace Other: _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used SR - 98 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 3.0 /Corr: 3.0

Temp Blank Present: ☒ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 9/25/20 /Initials: SRK

Labeled By Initials: LO

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD:	☐Yes ☒No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S		
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☐Yes ☒No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 06, 2020

DENIS ROZNOWSKI
Foth Infrastructure & Environment, LLC
2121 Innovation Court
De Pere, WI 54115

RE: Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

Dear DENIS ROZNOWSKI:

Enclosed are the analytical results for sample(s) received by the laboratory on October 15, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:
- Pace Analytical Services - Green Bay

Report revised to include ASTM Leach analysis for metals.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer
tod.noltemeyer@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Steve Lehrke, Foth Infrastructure & Environment
RICK PANOSH, Foth Infrastructure & Environment, LLC

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40216614001	**GP-3, 0.1-4.0'**	Solid	09/24/20 08:36	10/15/20 12:01
40216614002	**GP-6, 0.2-5.'**	Solid	09/23/20 17:02	10/15/20 12:01
40216614003	**GP-12, 5.0-7.5'**	Solid	09/24/20 12:20	10/15/20 12:01
40216614004	**GP-13, 0.2-4.0'**	Solid	09/24/20 12:25	10/15/20 12:01

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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40216614001	**GP-3, 0.1-4.0'**	EPA 6010	TXW	2
		EPA 6020	KXS	3
40216614002	**GP-6, 0.2-5.'**	EPA 6010	TXW	1
		EPA 6020	KXS	3
40216614003	**GP-12, 5.0-7.5'**	EPA 6010	TXW	1
		EPA 6020	KXS	3
40216614004	**GP-13, 0.2-4.0'**	EPA 6010	TXW	1
		EPA 6020	KXS	3

PASI-G = Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

Method: **EPA 6010**
Description: 6010 MET ICP, TCLP
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 06, 2020

General Information:
4 samples were analyzed for EPA 6010 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

Method: **EPA 6020**
Description: 6020 MET ICPMS, ASTM
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 06, 2020

General Information:
4 samples were analyzed for EPA 6020 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

Sample: GP-3, 0.1-4.0' **Lab ID: 40216614001** Collected: 09/24/20 08:36 Received: 10/15/20 12:01 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Leachate Method/Date: EPA 1311; 10/19/20 13:43 Pace Analytical Services - Green Bay								
Arsenic	**0.056**	mg/L	0.025	0.0084	1	10/20/20 13:43	10/21/20 12:57	7440-38-2	
Lead	**0.097**	mg/L	0.020	0.0059	1	10/20/20 13:43	10/21/20 12:57	7439-92-1	
6020 MET ICPMS, ASTM	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Leachate Method/Date: ASTM D3987; 11/03/20 12:34 Pace Analytical Services - Green Bay								
Bismuth-209 (IS)	**94.952**	%			1	11/05/20 06:53	11/05/20 15:35	7440-69-9	
Lead	**<0.00024**	mg/L	0.0010	0.00024	1	11/05/20 06:53	11/05/20 15:35	7439-92-1	
Zinc	**<0.010**	mg/L	0.034	0.010	1	11/05/20 06:53	11/05/20 15:35	7440-66-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

Sample: GP-6, 0.2-5.' **Lab ID: 40216614002** Collected: 09/23/20 17:02 Received: 10/15/20 12:01 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Leachate Method/Date: EPA 1311; 10/19/20 13:43 Pace Analytical Services - Green Bay								
Lead	**0.056**	mg/L	0.020	0.0059	1	10/20/20 13:43	10/21/20 13:12	7439-92-1	
6020 MET ICPMS, ASTM	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Leachate Method/Date: ASTM D3987; 11/03/20 12:34 Pace Analytical Services - Green Bay								
Bismuth-209 (IS)	**100.76**	%			1	11/05/20 06:53	11/05/20 16:02	7440-69-9	
Lead	**<0.00024**	mg/L	0.0010	0.00024	1	11/05/20 06:53	11/05/20 16:02	7439-92-1	
Zinc	**<0.010**	mg/L	0.034	0.010	1	11/05/20 06:53	11/05/20 16:02	7440-66-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

Sample: GP-12, 5.0-7.5' **Lab ID: 40216614003** Collected: 09/24/20 12:20 Received: 10/15/20 12:01 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Leachate Method/Date: EPA 1311; 10/19/20 13:43 Pace Analytical Services - Green Bay								
Lead	**0.033**	mg/L	0.020	0.0059	1	10/20/20 13:43	10/21/20 13:18	7439-92-1	
6020 MET ICPMS, ASTM	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Leachate Method/Date: ASTM D3987; 11/03/20 12:34 Pace Analytical Services - Green Bay								
Bismuth-209 (IS)	**99.266**	%			1	11/05/20 06:53	11/05/20 16:16	7440-69-9	
Lead	**<0.00024**	mg/L	0.0010	0.00024	1	11/05/20 06:53	11/05/20 16:16	7439-92-1	
Zinc	**<0.010**	mg/L	0.034	0.010	1	11/05/20 06:53	11/05/20 16:16	7440-66-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

Sample: GP-13, 0.2-4.0' **Lab ID: 40216614004** Collected: 09/24/20 12:25 Received: 10/15/20 12:01 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Leachate Method/Date: EPA 1311; 10/19/20 13:43 Pace Analytical Services - Green Bay								
Lead	**0.044**	mg/L	0.020	0.0059	1	10/20/20 13:43	10/21/20 13:47	7439-92-1	
6020 MET ICPMS, ASTM	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Leachate Method/Date: ASTM D3987; 11/03/20 12:34 Pace Analytical Services - Green Bay								
Bismuth-209 (IS)	**97.851**	%			1	11/05/20 06:53	11/05/20 16:23	7440-69-9	
Lead	**<0.00024**	mg/L	0.0010	0.00024	1	11/05/20 06:53	11/05/20 16:23	7439-92-1	
Zinc	**<0.010**	mg/L	0.034	0.010	1	11/05/20 06:53	11/05/20 16:23	7440-66-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

QC Batch: 368818
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET TCLP
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216614001, 40216614002, 40216614003, 40216614004

METHOD BLANK: 2132268 Matrix: Water
Associated Lab Samples: 40216614001, 40216614002, 40216614003, 40216614004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0084	0.025	10/21/20 12:52	
Lead	mg/L	<0.0059	0.020	10/21/20 12:52	

METHOD BLANK: 2131602 Matrix: Solid
Associated Lab Samples: 40216614001, 40216614002, 40216614003, 40216614004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0084	0.025	10/21/20 13:44	
Lead	mg/L	<0.0059	0.020	10/21/20 13:44	

METHOD BLANK: 2131603 Matrix: Solid
Associated Lab Samples: 40216614001, 40216614002, 40216614003, 40216614004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0084	0.025	10/21/20 13:52	
Lead	mg/L	<0.0059	0.020	10/21/20 13:52	

LABORATORY CONTROL SAMPLE: 2132269

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.5	0.50	101	80-120	
Lead	mg/L	0.5	0.50	100	80-120	

MATRIX SPIKE SAMPLE: 2132270

Parameter	Units	40216034001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	<0.0084	0.5	0.52	103	75-125	
Lead	mg/L	<0.012	0.5	0.50	99	75-125	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

MATRIX SPIKE SAMPLE: 2132271

Parameter	Units	40216614001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.056	0.5	0.59	106	75-125	
Lead	mg/L	0.097	0.5	0.58	97	75-125	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

QC Batch: 370329
QC Batch Method: EPA 3010
Analysis Method: EPA 6020
Analysis Description: 6020 MET ASTM
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216614001, 40216614002, 40216614003, 40216614004

METHOD BLANK: 2140876 Matrix: Water
Associated Lab Samples: 40216614001, 40216614002, 40216614003, 40216614004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	<0.00024	0.0010	11/05/20 13:51	
Zinc	mg/L	<0.010	0.034	11/05/20 13:51	

METHOD BLANK: 2139683 Matrix: Solid
Associated Lab Samples: 40216614001, 40216614002, 40216614003, 40216614004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	<0.00024	0.0010	11/05/20 13:58	
Zinc	mg/L	<0.010	0.034	11/05/20 13:58	

LABORATORY CONTROL SAMPLE: 2140877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	0.5	0.49	97	80-120	
Zinc	mg/L	0.5	0.51	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2140878 2140879

Parameter	Units	40216614001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/L	<0.00024	0.5	0.5	0.49	0.50	99	100	75-125	1	20	
Zinc	mg/L	<0.010	0.5	0.5	0.49	0.50	98	99	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 19M106.20 FMM B34/B35 SUPPLEME
Pace Project No.: 40216614

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40216614001	**GP-3, 0.1-4.0'**	EPA 3010	368818	EPA 6010	368932
40216614002	**GP-6, 0.2-5.'**	EPA 3010	368818	EPA 6010	368932
40216614003	**GP-12, 5.0-7.5'**	EPA 3010	368818	EPA 6010	368932
40216614004	**GP-13, 0.2-4.0'**	EPA 3010	368818	EPA 6010	368932
40216614001	**GP-3, 0.1-4.0'**	EPA 3010	370329	EPA 6020	370385
40216614002	**GP-6, 0.2-5.'**	EPA 3010	370329	EPA 6020	370385
40216614003	**GP-12, 5.0-7.5'**	EPA 3010	370329	EPA 6020	370385
40216614004	**GP-13, 0.2-4.0'**	EPA 3010	370329	EPA 6020	370385

40216614

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

1 of 1

Lab Information:

Lab Name:	Pace Analytical Services, Inc.
Address:	1241 Bellevue Street, Ste. 9, Green Bay, WI 54302
Lab PM:	Tod Noltemeyer
Phone/Fax:	608.232.3300
Lab PM email:	Tod.Noltemeyer@pacelabs.com
Applicable Lab Quote #	

Project Information:

Site ID #:	FMM B34/B35 Supplemental Yard Inv.
Project #:	19M106.20
Site Address:	Fincantieri Marinette Marine 1600 Ely Street
City-State-Zip:	Marinette, WI 54143
Site PM Name:	Denis Roznowski
Phone/Fax:	(920) 496-6756
Sampler Name:	Rick Panosh, Bob Meller

Other Information:

Send Invoice to:	invoices@foth.com
Address:	2121 Innovation Ct.
City/State:	De Pere WI 54115
Phone #:	920-496-6687
Foth Project No.:	19M106.20
Send EDD to:	Steve.Lehrke@foth.com
CC Hard copy report to:	
CC Electronic reports (lab report and data in spreadsheet format):	denis.roznowski@foth.com; rick.panosh@foth.com; steve.lehrke@foth.com;

Task: Sediment/Soil Chemistry Sampling

Turn Around Time: Standard (or 7-day)

QC level Required: Standard Level II Report

ITEM #	Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	MATRIX CODE	G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	Comments/Lab Sample I.D.	Preservative: Soil/Sediment = None	Preservative: Soil/Sediment = None	Preservative: Soil/Sediment = None	Analysis: TCLP Arsenic	Analysis: TCLP Lead	Analysis: HOLD FOR INSTRUCTIONS
1	GP-3, 0.1 - 4.0'	GP-3	Soil	C	9/24/20	0836	1					X	X	
2	GP-6, 0.2 - 5.0'	GP-6	Soil	C	9/23/20	1702	1						X	
3	GP-12, 5.0 - 7.5'	GP-12	Soil	C	9/24/20	1220	1						X	
4	GP-13, 0.2 - 4.0'	GP-13	Soil	C	9/24/20	1225	1						X	
5														
6														
7														
8														
9														
10														

Additional Comments/Special Instructions:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	10-15-20	1201	[signature] Pace	10-15-20	1201

Sample Receipt Conditions

QC	ON	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SHIPPING INFO:	SAMPLER NAME AND SIGNATURE			
Company: FedEx	PRINT Name of SAMPLER:	Rick Panosh		
Tracking #:	SIGNATURE of SAMPLER:	[signature]	DATE Signed: 10-15-20	Time: 1000

Temp in OC	Samples on Ice?	Sample intact?	Trip Blank?

Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: Foth Project # 40216614

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☒N/A Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

	Glass							Plastic					Vials						Jars				General							
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																																	2.5 / 5 / 10
002																																	2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:_____ Headspace in VOA Vials (>6mm) : ☐Yes ☐No ☒N/A *If yes look in headspace column

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Foth

Project #:

WO# : 40216614

40216614

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☒ Client ☐ Pace Other:

Tracking #: —

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other

Thermometer Used SR - 99 **Type of Ice:** (Wet) Blue Dry None ☐ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2.0 /Corr: 2.0

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
Date: 10/15/20 /Initials: [illegible]
Labeled By Initials: [illegible]

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No	MS/MSD: ☐Yes ☒No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis	Matrix: S	
Trip Blank Present:	☐Yes ☐No ☒N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

Attachment 4

Groundwater Analytical Reports (Eurofins TestAmerica)

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

October 08, 2020

DENIS ROZNOWSKI
Foth Infrastructure & Environment, LLC
2121 Innovation Court
De Pere, WI 54115

RE: Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Dear DENIS ROZNOWSKI:

Enclosed are the analytical results for sample(s) received by the laboratory on September 30, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay
- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer
tod.noltemeyer@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Steve Lehrke, Foth Infrastructure & Environment
RICK PANOSH, Foth Infrastructure & Environment, LLC

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Pace Analytical Services - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

SAMPLE SUMMARY

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40215637001	**GP-1W**	Water	09/29/20 12:25	09/30/20 10:15
40215637002	**GP-3W**	Water	09/29/20 14:25	09/30/20 10:15
40215637003	**GP-6W**	Water	09/29/20 10:45	09/30/20 10:15
40215637004	**GP-4W**	Water	09/29/20 08:55	09/30/20 10:15
40215637005	**GP-4W-D**	Water	09/29/20 08:55	09/30/20 10:15
40215637006	**TRIP BLANK**	Water	09/29/20 00:00	09/30/20 10:15

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SAMPLE ANALYTE COUNT

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40215637001	**GP-1W**	EPA 8081B	AMV	24	PASI-M
		EPA 8082	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270 by HVI	JJB	20	PASI-G
		EPA 8260	HNW	64	PASI-G
40215637002	**GP-3W**	EPA 8081B	AMV	24	PASI-M
		EPA 8082	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270 by HVI	JJB	20	PASI-G
		EPA 8260	HNW	64	PASI-G
40215637003	**GP-6W**	EPA 8081B	AMV	24	PASI-M
		EPA 8082	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270 by HVI	JJB	20	PASI-G
		EPA 8260	HNW	64	PASI-G
40215637004	**GP-4W**	EPA 8081B	AMV	24	PASI-M
		EPA 8082	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270 by HVI	JJB	20	PASI-G
		EPA 8260	HNW	64	PASI-G
40215637005	**GP-4W-D**	EPA 8081B	AMV	24	PASI-M
		EPA 8082	BLM	10	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 7470	AJT	1	PASI-G

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470	AJT	1	PASI-G
		EPA 8270 by HVI	JJB	20	PASI-G
		EPA 8260	HNW	64	PASI-G
40215637006	**TRIP BLANK**	EPA 8260	HNW	64	PASI-G

PASI-G = Pace Analytical Services - Green Bay
PASI-M = Pace Analytical Services - Minneapolis

Pace Analytical Services, LLC
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PROJECT NARRATIVE

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Method: **EPA 8081B**
Description: 8081B GCS Pesticides
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 08, 2020

General Information:
5 samples were analyzed for EPA 8081B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA Mod. 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 702134

- GP-1W (Lab ID: 40215637001)
  - Heptachlor
- GP-3W (Lab ID: 40215637002)
  - Heptachlor
- GP-4W (Lab ID: 40215637004)
  - Heptachlor
- GP-4W-D (Lab ID: 40215637005)
  - Heptachlor
- GP-6W (Lab ID: 40215637003)
  - Heptachlor

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PROJECT NARRATIVE

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Method: **EPA 8082**
Description: 8082 GCS PCB
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 08, 2020

General Information:
5 samples were analyzed for EPA 8082 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 367386

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 08, 2020

General Information:
5 samples were analyzed for EPA 6020 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 367155

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GP-1W (Lab ID: 40215637001)
  - Silver
  - Cadmium
  - Chromium
  - Copper
  - Selenium
  - Zinc
- GP-3W (Lab ID: 40215637002)
  - Silver
  - Cadmium

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PROJECT NARRATIVE

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 08, 2020

Analyte Comments:

QC Batch: 367155

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GP-3W (Lab ID: 40215637002)
  - Chromium
  - Copper
  - Lead
  - Selenium
  - Zinc
- GP-4W (Lab ID: 40215637004)
  - Silver
  - Cadmium
  - Chromium
  - Copper
  - Lead
  - Selenium
- GP-4W-D (Lab ID: 40215637005)
  - Silver
  - Cadmium
  - Chromium
  - Copper
  - Lead
  - Selenium
- GP-6W (Lab ID: 40215637003)
  - Silver
  - Cadmium
  - Chromium
  - Copper
  - Lead
  - Selenium
  - Zinc

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PROJECT NARRATIVE

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Method: **EPA 6020**
Description: 6020 MET ICPMS, Dissolved
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 08, 2020

General Information:
5 samples were analyzed for EPA 6020 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 367154

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GP-1W (Lab ID: 40215637001)
  - Silver, Dissolved
  - Cadmium, Dissolved
  - Chromium, Dissolved
  - Copper, Dissolved
  - Lead, Dissolved
  - Selenium, Dissolved
  - Zinc, Dissolved
- GP-3W (Lab ID: 40215637002)
  - Silver, Dissolved

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PROJECT NARRATIVE

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Method: **EPA 6020**
Description: 6020 MET ICPMS, Dissolved
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 08, 2020

Analyte Comments:

QC Batch: 367154

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GP-3W (Lab ID: 40215637002)
  - Cadmium, Dissolved
  - Chromium, Dissolved
  - Copper, Dissolved
  - Lead, Dissolved
  - Selenium, Dissolved
  - Zinc, Dissolved
- GP-4W (Lab ID: 40215637004)
  - Silver, Dissolved
  - Cadmium, Dissolved
  - Chromium, Dissolved
  - Copper, Dissolved
  - Lead, Dissolved
  - Selenium, Dissolved
- GP-4W-D (Lab ID: 40215637005)
  - Silver, Dissolved
  - Cadmium, Dissolved
  - Chromium, Dissolved
  - Copper, Dissolved
  - Lead, Dissolved
  - Selenium, Dissolved
- GP-6W (Lab ID: 40215637003)
  - Silver, Dissolved
  - Cadmium, Dissolved
  - Chromium, Dissolved
  - Copper, Dissolved
  - Lead, Dissolved
  - Selenium, Dissolved
  - Zinc, Dissolved

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Method: **EPA 7470**
Description: 7470 Mercury
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 08, 2020

General Information:
5 samples were analyzed for EPA 7470 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Method: **EPA 7470**
Description: 7470 Mercury, Dissolved
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 08, 2020

General Information:
5 samples were analyzed for EPA 7470 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Method: **EPA 8270 by HVI**
Description: 8270 MSSV PAH by HVI
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 08, 2020

General Information:
5 samples were analyzed for EPA 8270 by HVI by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 367047

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 2121671)
  - 2-Fluorobiphenyl (S)
  - Terphenyl-d14 (S)
- MSD (Lab ID: 2121672)
  - 2-Fluorobiphenyl (S)
  - Terphenyl-d14 (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

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PROJECT NARRATIVE

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Method: **EPA 8270 by HVI**
Description: 8270 MSSV PAH by HVI
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 08, 2020

QC Batch: 367047

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40215640003

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 2121671)
  - 1-Methylnaphthalene
  - 2-Methylnaphthalene
  - Acenaphthene
  - Anthracene
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Benzo(b)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(k)fluoranthene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluoranthene
  - Fluorene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene
- MSD (Lab ID: 2121672)
  - 1-Methylnaphthalene
  - 2-Methylnaphthalene
  - Acenaphthene
  - Anthracene
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Benzo(b)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(k)fluoranthene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluoranthene
  - Fluorene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene

Additional Comments:

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PROJECT NARRATIVE

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Method: **EPA 8260**
Description: 8260 MSV
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 08, 2020

General Information:
6 samples were analyzed for EPA 8260 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Sample: GP-1W **Lab ID: 40215637001** Collected: 09/29/20 12:25 Received: 09/30/20 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
Aldrin	**<0.015**	ug/L	0.052	0.015	1	10/02/20 14:53	10/05/20 17:46	309-00-2	
alpha-BHC	**0.017J**	ug/L	0.022	0.0065	1	10/02/20 14:53	10/05/20 17:46	319-84-6	
beta-BHC	**0.019J**	ug/L	0.036	0.011	1	10/02/20 14:53	10/05/20 17:46	319-85-7	
delta-BHC	**<0.013**	ug/L	0.045	0.013	1	10/02/20 14:53	10/05/20 17:46	319-86-8	
gamma-BHC (Lindane)	**<0.0065**	ug/L	0.022	0.0065	1	10/02/20 14:53	10/05/20 17:46	58-89-9	
Chlordane (Technical)	**<0.21**	ug/L	0.69	0.21	1	10/02/20 14:53	10/05/20 17:46	57-74-9	
alpha-Chlordane	**0.010J**	ug/L	0.020	0.0059	1	10/02/20 14:53	10/05/20 17:46	5103-71-9	
gamma-Chlordane	**<0.0069**	ug/L	0.023	0.0069	1	10/02/20 14:53	10/05/20 17:46	5103-74-2	
4,4'-DDD	**<0.022**	ug/L	0.073	0.022	1	10/02/20 14:53	10/05/20 17:46	72-54-8	
4,4'-DDE	**<0.012**	ug/L	0.040	0.012	1	10/02/20 14:53	10/05/20 17:46	72-55-9	
4,4'-DDT	**<0.027**	ug/L	0.091	0.027	1	10/02/20 14:53	10/05/20 17:46	50-29-3	
Dieldrin	**<0.0092**	ug/L	0.031	0.0092	1	10/02/20 14:53	10/05/20 17:46	60-57-1	
Endosulfan I	**0.011J**	ug/L	0.024	0.0073	1	10/02/20 14:53	10/05/20 17:46	959-98-8	
Endosulfan II	**<0.012**	ug/L	0.039	0.012	1	10/02/20 14:53	10/05/20 17:46	33213-65-9	
Endosulfan sulfate	**<0.014**	ug/L	0.046	0.014	1	10/02/20 14:53	10/05/20 17:46	1031-07-8	
Endrin	**<0.020**	ug/L	0.068	0.020	1	10/02/20 14:53	10/05/20 17:46	72-20-8	
Endrin aldehyde	**<0.018**	ug/L	0.060	0.018	1	10/02/20 14:53	10/05/20 17:46	7421-93-4	
Endrin ketone	**0.055J**	ug/L	0.085	0.025	1	10/02/20 14:53	10/05/20 17:46	53494-70-5	
Heptachlor	**<0.0093**	ug/L	0.031	0.0093	1	10/02/20 14:53	10/05/20 17:46	76-44-8	
Heptachlor epoxide	**<0.0072**	ug/L	0.024	0.0072	1	10/02/20 14:53	10/05/20 17:46	1024-57-3	
Methoxychlor	**<0.17**	ug/L	0.56	0.17	1	10/02/20 14:53	10/05/20 17:46	72-43-5	
Toxaphene	**<0.45**	ug/L	1.5	0.45	1	10/02/20 14:53	10/05/20 17:46	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	90	%.	55-130		1	10/02/20 14:53	10/05/20 17:46	877-09-8	
Decachlorobiphenyl (S)	67	%.	36-145		1	10/02/20 14:53	10/05/20 17:46	2051-24-3	v1
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.51	0.11	1	10/05/20 14:17	10/06/20 11:47	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.51	0.11	1	10/05/20 14:17	10/06/20 11:47	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.51	0.11	1	10/05/20 14:17	10/06/20 11:47	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.51	0.11	1	10/05/20 14:17	10/06/20 11:47	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.51	0.11	1	10/05/20 14:17	10/06/20 11:47	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.51	0.11	1	10/05/20 14:17	10/06/20 11:47	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.51	0.11	1	10/05/20 14:17	10/06/20 11:47	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.51	0.11	1	10/05/20 14:17	10/06/20 11:47	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	64	%	39-127		1	10/05/20 14:17	10/06/20 11:47	877-09-8	
Decachlorobiphenyl (S)	25	%	15-121		1	10/05/20 14:17	10/06/20 11:47	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Arsenic	**28.9**	ug/L	5.0	1.4	5	10/02/20 07:11	10/06/20 19:02	7440-38-2	
Barium	**736**	ug/L	11.6	3.5	5	10/02/20 07:11	10/06/20 19:02	7440-39-3	
Cadmium	**2.6J**	ug/L	5.0	0.76	5	10/02/20 07:11	10/06/20 19:02	7440-43-9	D3

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Sample: GP-1W **Lab ID: 40215637001** Collected: 09/29/20 12:25 Received: 09/30/20 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Chromium	**6.4J**	ug/L	17.0	5.1	5	10/02/20 07:11	10/06/20 19:02	7440-47-3	D3
Copper	**<9.5**	ug/L	31.8	9.5	5	10/02/20 07:11	10/06/20 19:02	7440-50-8	D3
Lead	**8.1**	ug/L	5.0	1.2	5	10/02/20 07:11	10/06/20 19:02	7439-92-1	
Selenium	**3.5J**	ug/L	5.3	1.6	5	10/02/20 07:11	10/06/20 19:02	7782-49-2	D3
Silver	**1.3J**	ug/L	2.5	0.64	5	10/02/20 07:11	10/06/20 19:02	7440-22-4	D3
Zinc	**<51.6**	ug/L	172	51.6	5	10/02/20 07:11	10/06/20 19:02	7440-66-6	D3
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**25.1**	ug/L	5.0	1.4	5	10/02/20 07:05	10/06/20 20:10	7440-38-2	
Barium, Dissolved	**720**	ug/L	11.6	3.5	5	10/02/20 07:05	10/06/20 20:10	7440-39-3	
Cadmium, Dissolved	**1.5J**	ug/L	5.0	0.76	5	10/02/20 07:05	10/06/20 20:10	7440-43-9	D3
Chromium, Dissolved	**<5.1**	ug/L	17.0	5.1	5	10/02/20 07:05	10/06/20 20:10	7440-47-3	D3
Copper, Dissolved	**<9.5**	ug/L	31.8	9.5	5	10/02/20 07:05	10/06/20 20:10	7440-50-8	D3
Lead, Dissolved	**4.0J**	ug/L	5.0	1.2	5	10/02/20 07:05	10/06/20 20:10	7439-92-1	D3
Selenium, Dissolved	**2.7J**	ug/L	5.3	1.6	5	10/02/20 07:05	10/06/20 20:10	7782-49-2	D3
Silver, Dissolved	**0.88J**	ug/L	2.5	0.64	5	10/02/20 07:05	10/06/20 20:10	7440-22-4	D3
Zinc, Dissolved	**<51.6**	ug/L	172	51.6	5	10/02/20 07:05	10/06/20 20:10	7440-66-6	D3
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury	**<0.066**	ug/L	0.20	0.066	1	10/05/20 10:35	10/06/20 09:40	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury, Dissolved	**<0.066**	ug/L	0.20	0.066	1	10/05/20 10:35	10/06/20 10:55	7439-97-6	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
1-Methylnaphthalene	**0.53**	ug/L	0.028	0.0055	1	10/01/20 08:50	10/01/20 16:42	90-12-0	
2-Methylnaphthalene	**0.55**	ug/L	0.023	0.0046	1	10/01/20 08:50	10/01/20 16:42	91-57-6	
Acenaphthene	**0.19**	ug/L	0.028	0.0057	1	10/01/20 08:50	10/01/20 16:42	83-32-9	
Acenaphthylene	**<0.0047**	ug/L	0.023	0.0047	1	10/01/20 08:50	10/01/20 16:42	208-96-8	
Anthracene	**0.020J**	ug/L	0.049	0.0098	1	10/01/20 08:50	10/01/20 16:42	120-12-7	
Benzo(a)anthracene	**<0.0071**	ug/L	0.035	0.0071	1	10/01/20 08:50	10/01/20 16:42	56-55-3	
Benzo(a)pyrene	**<0.0098**	ug/L	0.049	0.0098	1	10/01/20 08:50	10/01/20 16:42	50-32-8	
Benzo(b)fluoranthene	**<0.0054**	ug/L	0.027	0.0054	1	10/01/20 08:50	10/01/20 16:42	205-99-2	
Benzo(g,h,i)perylene	**<0.0063**	ug/L	0.032	0.0063	1	10/01/20 08:50	10/01/20 16:42	191-24-2	
Benzo(k)fluoranthene	**<0.0071**	ug/L	0.035	0.0071	1	10/01/20 08:50	10/01/20 16:42	207-08-9	
Chrysene	**<0.012**	ug/L	0.061	0.012	1	10/01/20 08:50	10/01/20 16:42	218-01-9	
Dibenz(a,h)anthracene	**<0.0094**	ug/L	0.047	0.0094	1	10/01/20 08:50	10/01/20 16:42	53-70-3	
Fluoranthene	**0.022J**	ug/L	0.050	0.010	1	10/01/20 08:50	10/01/20 16:42	206-44-0	
Fluorene	**0.080**	ug/L	0.037	0.0074	1	10/01/20 08:50	10/01/20 16:42	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.016**	ug/L	0.082	0.016	1	10/01/20 08:50	10/01/20 16:42	193-39-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Sample: GP-1W **Lab ID: 40215637001** Collected: 09/29/20 12:25 Received: 09/30/20 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Naphthalene	**0.29**	ug/L	0.086	0.017	1	10/01/20 08:50	10/01/20 16:42	91-20-3	
Phenanthrene	**0.14**	ug/L	0.064	0.013	1	10/01/20 08:50	10/01/20 16:42	85-01-8	
Pyrene	**0.018J**	ug/L	0.036	0.0071	1	10/01/20 08:50	10/01/20 16:42	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	49	%	39-120		1	10/01/20 08:50	10/01/20 16:42	321-60-8	
Terphenyl-d14 (S)	51	%	10-159		1	10/01/20 08:50	10/01/20 16:42	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**3.4**	ug/L	1.0	0.25	1		10/03/20 01:37	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/03/20 01:37	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/03/20 01:37	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/03/20 01:37	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/03/20 01:37	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/03/20 01:37	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/03/20 01:37	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/03/20 01:37	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/03/20 01:37	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		10/03/20 01:37	56-23-5	
Chlorobenzene	**2.0J**	ug/L	2.4	0.71	1		10/03/20 01:37	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/03/20 01:37	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/03/20 01:37	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/03/20 01:37	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/03/20 01:37	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/03/20 01:37	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/03/20 01:37	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/03/20 01:37	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/03/20 01:37	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/03/20 01:37	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/03/20 01:37	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/03/20 01:37	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/03/20 01:37	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/03/20 01:37	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/03/20 01:37	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/03/20 01:37	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/03/20 01:37	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/03/20 01:37	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		10/03/20 01:37	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/03/20 01:37	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/03/20 01:37	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/03/20 01:37	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/03/20 01:37	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/03/20 01:37	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/03/20 01:37	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/03/20 01:37	108-20-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Sample: GP-1W **Lab ID: 40215637001** Collected: 09/29/20 12:25 Received: 09/30/20 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		10/03/20 01:37	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		10/03/20 01:37	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		10/03/20 01:37	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/03/20 01:37	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/03/20 01:37	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/03/20 01:37	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/03/20 01:37	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/03/20 01:37	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		10/03/20 01:37	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/03/20 01:37	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/03/20 01:37	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/03/20 01:37	127-18-4	
Toluene	**0.66J**	ug/L	1.0	0.27	1		10/03/20 01:37	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		10/03/20 01:37	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/03/20 01:37	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/03/20 01:37	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/03/20 01:37	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/03/20 01:37	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/03/20 01:37	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/03/20 01:37	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/03/20 01:37	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/03/20 01:37	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/03/20 01:37	75-01-4	
m&p-Xylene	**0.65J**	ug/L	2.0	0.47	1		10/03/20 01:37	179601-23-1	
o-Xylene	**0.39J**	ug/L	1.0	0.26	1		10/03/20 01:37	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/03/20 01:37	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		10/03/20 01:37	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/03/20 01:37	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Sample: GP-3W **Lab ID: 40215637002** Collected: 09/29/20 14:25 Received: 09/30/20 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
Aldrin	**<0.015**	ug/L	0.051	0.015	1	10/02/20 14:53	10/05/20 18:04	309-00-2	
alpha-BHC	**<0.0065**	ug/L	0.022	0.0065	1	10/02/20 14:53	10/05/20 18:04	319-84-6	
beta-BHC	**0.022J**	ug/L	0.035	0.011	1	10/02/20 14:53	10/05/20 18:04	319-85-7	
delta-BHC	**<0.013**	ug/L	0.044	0.013	1	10/02/20 14:53	10/05/20 18:04	319-86-8	
gamma-BHC (Lindane)	**<0.0065**	ug/L	0.021	0.0065	1	10/02/20 14:53	10/05/20 18:04	58-89-9	
Chlordane (Technical)	**<0.20**	ug/L	0.68	0.20	1	10/02/20 14:53	10/05/20 18:04	57-74-9	
alpha-Chlordane	**<0.0059**	ug/L	0.020	0.0059	1	10/02/20 14:53	10/05/20 18:04	5103-71-9	
gamma-Chlordane	**<0.0069**	ug/L	0.023	0.0069	1	10/02/20 14:53	10/05/20 18:04	5103-74-2	
4,4'-DDD	**<0.022**	ug/L	0.072	0.022	1	10/02/20 14:53	10/05/20 18:04	72-54-8	
4,4'-DDE	**<0.012**	ug/L	0.040	0.012	1	10/02/20 14:53	10/05/20 18:04	72-55-9	
4,4'-DDT	**<0.027**	ug/L	0.090	0.027	1	10/02/20 14:53	10/05/20 18:04	50-29-3	
Dieldrin	**<0.0091**	ug/L	0.030	0.0091	1	10/02/20 14:53	10/05/20 18:04	60-57-1	
Endosulfan I	**0.022J**	ug/L	0.024	0.0073	1	10/02/20 14:53	10/05/20 18:04	959-98-8	
Endosulfan II	**<0.012**	ug/L	0.039	0.012	1	10/02/20 14:53	10/05/20 18:04	33213-65-9	
Endosulfan sulfate	**<0.014**	ug/L	0.045	0.014	1	10/02/20 14:53	10/05/20 18:04	1031-07-8	
Endrin	**<0.020**	ug/L	0.067	0.020	1	10/02/20 14:53	10/05/20 18:04	72-20-8	
Endrin aldehyde	**<0.018**	ug/L	0.059	0.018	1	10/02/20 14:53	10/05/20 18:04	7421-93-4	
Endrin ketone	**<0.025**	ug/L	0.084	0.025	1	10/02/20 14:53	10/05/20 18:04	53494-70-5	
Heptachlor	**<0.0092**	ug/L	0.031	0.0092	1	10/02/20 14:53	10/05/20 18:04	76-44-8	
Heptachlor epoxide	**<0.0071**	ug/L	0.024	0.0071	1	10/02/20 14:53	10/05/20 18:04	1024-57-3	
Methoxychlor	**<0.17**	ug/L	0.56	0.17	1	10/02/20 14:53	10/05/20 18:04	72-43-5	
Toxaphene	**<0.44**	ug/L	1.5	0.44	1	10/02/20 14:53	10/05/20 18:04	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	99	%.	55-130		1	10/02/20 14:53	10/05/20 18:04	877-09-8	
Decachlorobiphenyl (S)	66	%.	36-145		1	10/02/20 14:53	10/05/20 18:04	2051-24-3	v1
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:05	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:05	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:05	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:05	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:05	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:05	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:05	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:05	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	69	%	39-127		1	10/05/20 14:17	10/06/20 12:05	877-09-8	
Decachlorobiphenyl (S)	26	%	15-121		1	10/05/20 14:17	10/06/20 12:05	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Arsenic	**115**	ug/L	5.0	1.4	5	10/02/20 07:11	10/06/20 18:35	7440-38-2	
Barium	**708**	ug/L	11.6	3.5	5	10/02/20 07:11	10/06/20 18:35	7440-39-3	
Cadmium	**<0.76**	ug/L	5.0	0.76	5	10/02/20 07:11	10/06/20 18:35	7440-43-9	D3

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ANALYTICAL RESULTS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Sample: GP-3W **Lab ID: 40215637002** Collected: 09/29/20 14:25 Received: 09/30/20 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Chromium	**<5.1**	ug/L	17.0	5.1	5	10/02/20 07:11	10/06/20 18:35	7440-47-3	D3
Copper	**<9.5**	ug/L	31.8	9.5	5	10/02/20 07:11	10/06/20 18:35	7440-50-8	D3
Lead	**3.7J**	ug/L	5.0	1.2	5	10/02/20 07:11	10/06/20 18:35	7439-92-1	D3
Selenium	**<1.6**	ug/L	5.3	1.6	5	10/02/20 07:11	10/06/20 18:35	7782-49-2	D3
Silver	**<0.64**	ug/L	2.5	0.64	5	10/02/20 07:11	10/06/20 18:35	7440-22-4	D3
Zinc	**<51.6**	ug/L	172	51.6	5	10/02/20 07:11	10/06/20 18:35	7440-66-6	D3
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**114**	ug/L	5.0	1.4	5	10/02/20 07:05	10/06/20 20:37	7440-38-2	
Barium, Dissolved	**694**	ug/L	11.6	3.5	5	10/02/20 07:05	10/06/20 20:37	7440-39-3	
Cadmium, Dissolved	**2.4J**	ug/L	5.0	0.76	5	10/02/20 07:05	10/06/20 20:37	7440-43-9	D3
Chromium, Dissolved	**<5.1**	ug/L	17.0	5.1	5	10/02/20 07:05	10/06/20 20:37	7440-47-3	D3
Copper, Dissolved	**<9.5**	ug/L	31.8	9.5	5	10/02/20 07:05	10/06/20 20:37	7440-50-8	D3
Lead, Dissolved	**3.0J**	ug/L	5.0	1.2	5	10/02/20 07:05	10/06/20 20:37	7439-92-1	D3
Selenium, Dissolved	**3.2J**	ug/L	5.3	1.6	5	10/02/20 07:05	10/06/20 20:37	7782-49-2	D3
Silver, Dissolved	**1.3J**	ug/L	2.5	0.64	5	10/02/20 07:05	10/06/20 20:37	7440-22-4	D3
Zinc, Dissolved	**<51.6**	ug/L	172	51.6	5	10/02/20 07:05	10/06/20 20:37	7440-66-6	D3
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury	**<0.066**	ug/L	0.20	0.066	1	10/05/20 10:35	10/06/20 09:47	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury, Dissolved	**<0.066**	ug/L	0.20	0.066	1	10/05/20 10:35	10/06/20 10:57	7439-97-6	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
1-Methylnaphthalene	**1.1**	ug/L	0.028	0.0055	1	10/01/20 08:50	10/01/20 18:15	90-12-0	
2-Methylnaphthalene	**2.4**	ug/L	0.023	0.0046	1	10/01/20 08:50	10/01/20 18:15	91-57-6	
Acenaphthene	**0.060**	ug/L	0.028	0.0057	1	10/01/20 08:50	10/01/20 18:15	83-32-9	
Acenaphthylene	**<0.0047**	ug/L	0.023	0.0047	1	10/01/20 08:50	10/01/20 18:15	208-96-8	
Anthracene	**0.018J**	ug/L	0.049	0.0098	1	10/01/20 08:50	10/01/20 18:15	120-12-7	
Benzo(a)anthracene	**<0.0071**	ug/L	0.035	0.0071	1	10/01/20 08:50	10/01/20 18:15	56-55-3	
Benzo(a)pyrene	**<0.0098**	ug/L	0.049	0.0098	1	10/01/20 08:50	10/01/20 18:15	50-32-8	
Benzo(b)fluoranthene	**<0.0054**	ug/L	0.027	0.0054	1	10/01/20 08:50	10/01/20 18:15	205-99-2	
Benzo(g,h,i)perylene	**<0.0063**	ug/L	0.032	0.0063	1	10/01/20 08:50	10/01/20 18:15	191-24-2	
Benzo(k)fluoranthene	**<0.0071**	ug/L	0.035	0.0071	1	10/01/20 08:50	10/01/20 18:15	207-08-9	
Chrysene	**<0.012**	ug/L	0.061	0.012	1	10/01/20 08:50	10/01/20 18:15	218-01-9	
Dibenz(a,h)anthracene	**<0.0094**	ug/L	0.047	0.0094	1	10/01/20 08:50	10/01/20 18:15	53-70-3	
Fluoranthene	**0.033J**	ug/L	0.050	0.010	1	10/01/20 08:50	10/01/20 18:15	206-44-0	
Fluorene	**0.066**	ug/L	0.037	0.0074	1	10/01/20 08:50	10/01/20 18:15	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.016**	ug/L	0.082	0.016	1	10/01/20 08:50	10/01/20 18:15	193-39-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Sample: GP-3W **Lab ID: 40215637002** Collected: 09/29/20 14:25 Received: 09/30/20 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
	Pace Analytical Services - Green Bay								
Naphthalene	**1.9**	ug/L	0.086	0.017	1	10/01/20 08:50	10/01/20 18:15	91-20-3	
Phenanthrene	**0.12**	ug/L	0.064	0.013	1	10/01/20 08:50	10/01/20 18:15	85-01-8	
Pyrene	**0.035J**	ug/L	0.036	0.0071	1	10/01/20 08:50	10/01/20 18:15	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	57	%	39-120		1	10/01/20 08:50	10/01/20 18:15	321-60-8	
Terphenyl-d14 (S)	67	%	10-159		1	10/01/20 08:50	10/01/20 18:15	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Benzene	**2.5**	ug/L	1.0	0.25	1		10/03/20 01:58	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/03/20 01:58	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/03/20 01:58	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/03/20 01:58	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/03/20 01:58	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/03/20 01:58	74-83-9	
n-Butylbenzene	**5.3**	ug/L	2.4	0.71	1		10/03/20 01:58	104-51-8	
sec-Butylbenzene	**1.6J**	ug/L	5.0	0.85	1		10/03/20 01:58	135-98-8	
tert-Butylbenzene	**1.3**	ug/L	1.0	0.30	1		10/03/20 01:58	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		10/03/20 01:58	56-23-5	
Chlorobenzene	**0.74J**	ug/L	2.4	0.71	1		10/03/20 01:58	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/03/20 01:58	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/03/20 01:58	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/03/20 01:58	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/03/20 01:58	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/03/20 01:58	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/03/20 01:58	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/03/20 01:58	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/03/20 01:58	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/03/20 01:58	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/03/20 01:58	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/03/20 01:58	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/03/20 01:58	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/03/20 01:58	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/03/20 01:58	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/03/20 01:58	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/03/20 01:58	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/03/20 01:58	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		10/03/20 01:58	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/03/20 01:58	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/03/20 01:58	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/03/20 01:58	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/03/20 01:58	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/03/20 01:58	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/03/20 01:58	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/03/20 01:58	108-20-3	

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ANALYTICAL RESULTS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Sample: GP-3W **Lab ID: 40215637002** Collected: 09/29/20 14:25 Received: 09/30/20 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		10/03/20 01:58	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		10/03/20 01:58	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		10/03/20 01:58	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/03/20 01:58	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/03/20 01:58	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/03/20 01:58	1634-04-4	
Naphthalene	**2.9J**	ug/L	5.0	1.2	1		10/03/20 01:58	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/03/20 01:58	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		10/03/20 01:58	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/03/20 01:58	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/03/20 01:58	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/03/20 01:58	127-18-4	
Toluene	**<0.27**	ug/L	1.0	0.27	1		10/03/20 01:58	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		10/03/20 01:58	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/03/20 01:58	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/03/20 01:58	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/03/20 01:58	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/03/20 01:58	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/03/20 01:58	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/03/20 01:58	96-18-4	
1,2,4-Trimethylbenzene	**3.4**	ug/L	2.8	0.84	1		10/03/20 01:58	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/03/20 01:58	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/03/20 01:58	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/03/20 01:58	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/03/20 01:58	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/03/20 01:58	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		10/03/20 01:58	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/03/20 01:58	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Sample: GP-6W **Lab ID: 40215637003** Collected: 09/29/20 10:45 Received: 09/30/20 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
Aldrin	**<0.016**	ug/L	0.053	0.016	1	10/02/20 14:53	10/05/20 18:23	309-00-2	
alpha-BHC	**<0.0067**	ug/L	0.022	0.0067	1	10/02/20 14:53	10/05/20 18:23	319-84-6	
beta-BHC	**<0.011**	ug/L	0.036	0.011	1	10/02/20 14:53	10/05/20 18:23	319-85-7	
delta-BHC	**<0.014**	ug/L	0.046	0.014	1	10/02/20 14:53	10/05/20 18:23	319-86-8	
gamma-BHC (Lindane)	**<0.0066**	ug/L	0.022	0.0066	1	10/02/20 14:53	10/05/20 18:23	58-89-9	
Chlordane (Technical)	**<0.21**	ug/L	0.70	0.21	1	10/02/20 14:53	10/05/20 18:23	57-74-9	
alpha-Chlordane	**<0.0060**	ug/L	0.020	0.0060	1	10/02/20 14:53	10/05/20 18:23	5103-71-9	
gamma-Chlordane	**<0.0071**	ug/L	0.024	0.0071	1	10/02/20 14:53	10/05/20 18:23	5103-74-2	
4,4'-DDD	**<0.022**	ug/L	0.075	0.022	1	10/02/20 14:53	10/05/20 18:23	72-54-8	
4,4'-DDE	**<0.012**	ug/L	0.041	0.012	1	10/02/20 14:53	10/05/20 18:23	72-55-9	
4,4'-DDT	**<0.028**	ug/L	0.093	0.028	1	10/02/20 14:53	10/05/20 18:23	50-29-3	
Dieldrin	**<0.0094**	ug/L	0.031	0.0094	1	10/02/20 14:53	10/05/20 18:23	60-57-1	
Endosulfan I	**<0.0075**	ug/L	0.025	0.0075	1	10/02/20 14:53	10/05/20 18:23	959-98-8	
Endosulfan II	**<0.012**	ug/L	0.040	0.012	1	10/02/20 14:53	10/05/20 18:23	33213-65-9	
Endosulfan sulfate	**<0.014**	ug/L	0.047	0.014	1	10/02/20 14:53	10/05/20 18:23	1031-07-8	
Endrin	**<0.021**	ug/L	0.069	0.021	1	10/02/20 14:53	10/05/20 18:23	72-20-8	
Endrin aldehyde	**<0.018**	ug/L	0.061	0.018	1	10/02/20 14:53	10/05/20 18:23	7421-93-4	
Endrin ketone	**<0.026**	ug/L	0.087	0.026	1	10/02/20 14:53	10/05/20 18:23	53494-70-5	
Heptachlor	**<0.0095**	ug/L	0.032	0.0095	1	10/02/20 14:53	10/05/20 18:23	76-44-8	
Heptachlor epoxide	**<0.0073**	ug/L	0.024	0.0073	1	10/02/20 14:53	10/05/20 18:23	1024-57-3	
Methoxychlor	**<0.17**	ug/L	0.57	0.17	1	10/02/20 14:53	10/05/20 18:23	72-43-5	
Toxaphene	**<0.45**	ug/L	1.5	0.45	1	10/02/20 14:53	10/05/20 18:23	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	99	%.	55-130		1	10/02/20 14:53	10/05/20 18:23	877-09-8	
Decachlorobiphenyl (S)	83	%.	36-145		1	10/02/20 14:53	10/05/20 18:23	2051-24-3	v1
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:23	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:23	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:23	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:23	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:23	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:23	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:23	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:23	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	39-127		1	10/05/20 14:17	10/06/20 12:23	877-09-8	
Decachlorobiphenyl (S)	31	%	15-121		1	10/05/20 14:17	10/06/20 12:23	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Arsenic	**168**	ug/L	5.0	1.4	5	10/02/20 07:11	10/06/20 19:16	7440-38-2	
Barium	**1850**	ug/L	11.6	3.5	5	10/02/20 07:11	10/06/20 19:16	7440-39-3	
Cadmium	**<0.76**	ug/L	5.0	0.76	5	10/02/20 07:11	10/06/20 19:16	7440-43-9	D3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Sample: GP-6W **Lab ID: 40215637003** Collected: 09/29/20 10:45 Received: 09/30/20 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Chromium	**<5.1**	ug/L	17.0	5.1	5	10/02/20 07:11	10/06/20 19:16	7440-47-3	D3
Copper	**<9.5**	ug/L	31.8	9.5	5	10/02/20 07:11	10/06/20 19:16	7440-50-8	D3
Lead	**<1.2**	ug/L	5.0	1.2	5	10/02/20 07:11	10/06/20 19:16	7439-92-1	D3
Selenium	**<1.6**	ug/L	5.3	1.6	5	10/02/20 07:11	10/06/20 19:16	7782-49-2	D3
Silver	**<0.64**	ug/L	2.5	0.64	5	10/02/20 07:11	10/06/20 19:16	7440-22-4	D3
Zinc	**<51.6**	ug/L	172	51.6	5	10/02/20 07:11	10/06/20 19:16	7440-66-6	D3
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**169**	ug/L	5.0	1.4	5	10/02/20 07:05	10/06/20 21:04	7440-38-2	D9
Barium, Dissolved	**1880**	ug/L	11.6	3.5	5	10/02/20 07:05	10/06/20 21:04	7440-39-3	D9
Cadmium, Dissolved	**<0.76**	ug/L	5.0	0.76	5	10/02/20 07:05	10/06/20 21:04	7440-43-9	D3
Chromium, Dissolved	**<5.1**	ug/L	17.0	5.1	5	10/02/20 07:05	10/06/20 21:04	7440-47-3	D3
Copper, Dissolved	**<9.5**	ug/L	31.8	9.5	5	10/02/20 07:05	10/06/20 21:04	7440-50-8	D3
Lead, Dissolved	**<1.2**	ug/L	5.0	1.2	5	10/02/20 07:05	10/06/20 21:04	7439-92-1	D3
Selenium, Dissolved	**<1.6**	ug/L	5.3	1.6	5	10/02/20 07:05	10/06/20 21:04	7782-49-2	D3
Silver, Dissolved	**<0.64**	ug/L	2.5	0.64	5	10/02/20 07:05	10/06/20 21:04	7440-22-4	D3
Zinc, Dissolved	**<51.6**	ug/L	172	51.6	5	10/02/20 07:05	10/06/20 21:04	7440-66-6	D3
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury	**<0.066**	ug/L	0.20	0.066	1	10/05/20 10:35	10/06/20 09:49	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury, Dissolved	**<0.066**	ug/L	0.20	0.066	1	10/05/20 10:35	10/06/20 10:59	7439-97-6	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
1-Methylnaphthalene	**0.0096J**	ug/L	0.028	0.0057	1	10/01/20 08:50	10/02/20 09:45	90-12-0	
2-Methylnaphthalene	**<0.0047**	ug/L	0.024	0.0047	1	10/01/20 08:50	10/02/20 09:45	91-57-6	
Acenaphthene	**0.010J**	ug/L	0.029	0.0058	1	10/01/20 08:50	10/02/20 09:45	83-32-9	
Acenaphthylene	**<0.0048**	ug/L	0.024	0.0048	1	10/01/20 08:50	10/02/20 09:45	208-96-8	
Anthracene	**<0.010**	ug/L	0.050	0.010	1	10/01/20 08:50	10/02/20 09:45	120-12-7	
Benzo(a)anthracene	**<0.0073**	ug/L	0.036	0.0073	1	10/01/20 08:50	10/02/20 09:45	56-55-3	
Benzo(a)pyrene	**<0.010**	ug/L	0.051	0.010	1	10/01/20 08:50	10/02/20 09:45	50-32-8	
Benzo(b)fluoranthene	**<0.0055**	ug/L	0.028	0.0055	1	10/01/20 08:50	10/02/20 09:45	205-99-2	
Benzo(g,h,i)perylene	**<0.0065**	ug/L	0.033	0.0065	1	10/01/20 08:50	10/02/20 09:45	191-24-2	
Benzo(k)fluoranthene	**<0.0073**	ug/L	0.036	0.0073	1	10/01/20 08:50	10/02/20 09:45	207-08-9	
Chrysene	**<0.013**	ug/L	0.063	0.013	1	10/01/20 08:50	10/02/20 09:45	218-01-9	
Dibenz(a,h)anthracene	**<0.0096**	ug/L	0.048	0.0096	1	10/01/20 08:50	10/02/20 09:45	53-70-3	
Fluoranthene	**<0.010**	ug/L	0.051	0.010	1	10/01/20 08:50	10/02/20 09:45	206-44-0	
Fluorene	**0.0082J**	ug/L	0.038	0.0077	1	10/01/20 08:50	10/02/20 09:45	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.017**	ug/L	0.085	0.017	1	10/01/20 08:50	10/02/20 09:45	193-39-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Sample: GP-6W **Lab ID: 40215637003** Collected: 09/29/20 10:45 Received: 09/30/20 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Naphthalene	**0.021J**	ug/L	0.088	0.018	1	10/01/20 08:50	10/02/20 09:45	91-20-3	
Phenanthrene	**<0.013**	ug/L	0.066	0.013	1	10/01/20 08:50	10/02/20 09:45	85-01-8	
Pyrene	**0.0093J**	ug/L	0.037	0.0074	1	10/01/20 08:50	10/02/20 09:45	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	57	%	39-120		1	10/01/20 08:50	10/02/20 09:45	321-60-8	
Terphenyl-d14 (S)	88	%	10-159		1	10/01/20 08:50	10/02/20 09:45	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/03/20 02:19	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/03/20 02:19	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/03/20 02:19	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/03/20 02:19	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/03/20 02:19	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/03/20 02:19	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/03/20 02:19	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/03/20 02:19	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/03/20 02:19	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		10/03/20 02:19	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/03/20 02:19	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/03/20 02:19	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/03/20 02:19	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/03/20 02:19	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/03/20 02:19	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/03/20 02:19	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/03/20 02:19	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/03/20 02:19	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/03/20 02:19	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/03/20 02:19	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/03/20 02:19	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/03/20 02:19	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/03/20 02:19	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/03/20 02:19	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/03/20 02:19	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/03/20 02:19	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/03/20 02:19	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/03/20 02:19	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		10/03/20 02:19	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/03/20 02:19	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/03/20 02:19	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/03/20 02:19	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/03/20 02:19	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/03/20 02:19	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/03/20 02:19	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/03/20 02:19	108-20-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Sample: GP-6W **Lab ID: 40215637003** Collected: 09/29/20 10:45 Received: 09/30/20 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		10/03/20 02:19	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		10/03/20 02:19	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		10/03/20 02:19	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/03/20 02:19	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/03/20 02:19	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/03/20 02:19	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/03/20 02:19	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/03/20 02:19	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		10/03/20 02:19	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/03/20 02:19	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/03/20 02:19	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/03/20 02:19	127-18-4	
Toluene	**<0.27**	ug/L	1.0	0.27	1		10/03/20 02:19	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		10/03/20 02:19	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/03/20 02:19	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/03/20 02:19	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/03/20 02:19	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/03/20 02:19	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/03/20 02:19	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/03/20 02:19	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/03/20 02:19	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/03/20 02:19	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/03/20 02:19	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/03/20 02:19	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/03/20 02:19	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/03/20 02:19	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		10/03/20 02:19	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/03/20 02:19	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Sample: GP-4W **Lab ID: 40215637004** Collected: 09/29/20 08:55 Received: 09/30/20 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
Aldrin	**<0.015**	ug/L	0.051	0.015	1	10/02/20 14:53	10/05/20 18:41	309-00-2	
alpha-BHC	**<0.0064**	ug/L	0.021	0.0064	1	10/02/20 14:53	10/05/20 18:41	319-84-6	
beta-BHC	**<0.010**	ug/L	0.035	0.010	1	10/02/20 14:53	10/05/20 18:41	319-85-7	
delta-BHC	**<0.013**	ug/L	0.044	0.013	1	10/02/20 14:53	10/05/20 18:41	319-86-8	
gamma-BHC (Lindane)	**<0.0064**	ug/L	0.021	0.0064	1	10/02/20 14:53	10/05/20 18:41	58-89-9	
Chlordane (Technical)	**<0.20**	ug/L	0.68	0.20	1	10/02/20 14:53	10/05/20 18:41	57-74-9	
alpha-Chlordane	**<0.0058**	ug/L	0.019	0.0058	1	10/02/20 14:53	10/05/20 18:41	5103-71-9	
gamma-Chlordane	**<0.0068**	ug/L	0.023	0.0068	1	10/02/20 14:53	10/05/20 18:41	5103-74-2	
4,4'-DDD	**<0.022**	ug/L	0.072	0.022	1	10/02/20 14:53	10/05/20 18:41	72-54-8	
4,4'-DDE	**<0.012**	ug/L	0.039	0.012	1	10/02/20 14:53	10/05/20 18:41	72-55-9	
4,4'-DDT	**<0.027**	ug/L	0.089	0.027	1	10/02/20 14:53	10/05/20 18:41	50-29-3	
Dieldrin	**<0.0090**	ug/L	0.030	0.0090	1	10/02/20 14:53	10/05/20 18:41	60-57-1	
Endosulfan I	**<0.0072**	ug/L	0.024	0.0072	1	10/02/20 14:53	10/05/20 18:41	959-98-8	
Endosulfan II	**<0.012**	ug/L	0.038	0.012	1	10/02/20 14:53	10/05/20 18:41	33213-65-9	
Endosulfan sulfate	**<0.013**	ug/L	0.045	0.013	1	10/02/20 14:53	10/05/20 18:41	1031-07-8	
Endrin	**<0.020**	ug/L	0.066	0.020	1	10/02/20 14:53	10/05/20 18:41	72-20-8	
Endrin aldehyde	**<0.018**	ug/L	0.059	0.018	1	10/02/20 14:53	10/05/20 18:41	7421-93-4	
Endrin ketone	**<0.025**	ug/L	0.083	0.025	1	10/02/20 14:53	10/05/20 18:41	53494-70-5	
Heptachlor	**<0.0091**	ug/L	0.030	0.0091	1	10/02/20 14:53	10/05/20 18:41	76-44-8	
Heptachlor epoxide	**<0.0071**	ug/L	0.024	0.0071	1	10/02/20 14:53	10/05/20 18:41	1024-57-3	
Methoxychlor	**<0.17**	ug/L	0.55	0.17	1	10/02/20 14:53	10/05/20 18:41	72-43-5	
Toxaphene	**<0.44**	ug/L	1.5	0.44	1	10/02/20 14:53	10/05/20 18:41	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	101	%.	55-130		1	10/02/20 14:53	10/05/20 18:41	877-09-8	
Decachlorobiphenyl (S)	98	%.	36-145		1	10/02/20 14:53	10/05/20 18:41	2051-24-3	v1
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:41	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:41	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:41	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:41	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:41	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:41	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:41	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.50	0.11	1	10/05/20 14:17	10/06/20 12:41	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	39-127		1	10/05/20 14:17	10/06/20 12:41	877-09-8	
Decachlorobiphenyl (S)	33	%	15-121		1	10/05/20 14:17	10/06/20 12:41	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Arsenic	**8.7**	ug/L	5.0	1.4	5	10/02/20 07:11	10/06/20 19:22	7440-38-2	
Barium	**102**	ug/L	11.6	3.5	5	10/02/20 07:11	10/06/20 19:22	7440-39-3	
Cadmium	**<0.76**	ug/L	5.0	0.76	5	10/02/20 07:11	10/06/20 19:22	7440-43-9	D3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Sample: GP-4W **Lab ID: 40215637004** Collected: 09/29/20 08:55 Received: 09/30/20 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Chromium	**<5.1**	ug/L	17.0	5.1	5	10/02/20 07:11	10/06/20 19:22	7440-47-3	D3
Copper	**<9.5**	ug/L	31.8	9.5	5	10/02/20 07:11	10/06/20 19:22	7440-50-8	D3
Lead	**<1.2**	ug/L	5.0	1.2	5	10/02/20 07:11	10/06/20 19:22	7439-92-1	D3
Selenium	**<1.6**	ug/L	5.3	1.6	5	10/02/20 07:11	10/06/20 19:22	7782-49-2	D3
Silver	**<0.64**	ug/L	2.5	0.64	5	10/02/20 07:11	10/06/20 19:22	7440-22-4	D3
Zinc	**281**	ug/L	172	51.6	5	10/02/20 07:11	10/06/20 19:22	7440-66-6	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**9.9**	ug/L	5.0	1.4	5	10/02/20 07:05	10/06/20 21:11	7440-38-2	D9
Barium, Dissolved	**116**	ug/L	11.6	3.5	5	10/02/20 07:05	10/06/20 21:11	7440-39-3	D9
Cadmium, Dissolved	**<0.76**	ug/L	5.0	0.76	5	10/02/20 07:05	10/06/20 21:11	7440-43-9	D3
Chromium, Dissolved	**<5.1**	ug/L	17.0	5.1	5	10/02/20 07:05	10/06/20 21:11	7440-47-3	D3
Copper, Dissolved	**<9.5**	ug/L	31.8	9.5	5	10/02/20 07:05	10/06/20 21:11	7440-50-8	D3
Lead, Dissolved	**<1.2**	ug/L	5.0	1.2	5	10/02/20 07:05	10/06/20 21:11	7439-92-1	D3
Selenium, Dissolved	**<1.6**	ug/L	5.3	1.6	5	10/02/20 07:05	10/06/20 21:11	7782-49-2	D3
Silver, Dissolved	**<0.64**	ug/L	2.5	0.64	5	10/02/20 07:05	10/06/20 21:11	7440-22-4	D3
Zinc, Dissolved	**241**	ug/L	172	51.6	5	10/02/20 07:05	10/06/20 21:11	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury	**<0.066**	ug/L	0.20	0.066	1	10/05/20 10:35	10/06/20 09:56	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury, Dissolved	**<0.066**	ug/L	0.20	0.066	1	10/05/20 10:35	10/06/20 11:02	7439-97-6	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
1-Methylnaphthalene	**<0.0057**	ug/L	0.028	0.0057	1	10/01/20 08:50	10/02/20 10:03	90-12-0	
2-Methylnaphthalene	**0.0051J**	ug/L	0.024	0.0047	1	10/01/20 08:50	10/02/20 10:03	91-57-6	
Acenaphthene	**<0.0058**	ug/L	0.029	0.0058	1	10/01/20 08:50	10/02/20 10:03	83-32-9	
Acenaphthylene	**<0.0048**	ug/L	0.024	0.0048	1	10/01/20 08:50	10/02/20 10:03	208-96-8	
Anthracene	**<0.010**	ug/L	0.050	0.010	1	10/01/20 08:50	10/02/20 10:03	120-12-7	
Benzo(a)anthracene	**<0.0073**	ug/L	0.036	0.0073	1	10/01/20 08:50	10/02/20 10:03	56-55-3	
Benzo(a)pyrene	**<0.010**	ug/L	0.051	0.010	1	10/01/20 08:50	10/02/20 10:03	50-32-8	
Benzo(b)fluoranthene	**<0.0055**	ug/L	0.028	0.0055	1	10/01/20 08:50	10/02/20 10:03	205-99-2	
Benzo(g,h,i)perylene	**<0.0065**	ug/L	0.033	0.0065	1	10/01/20 08:50	10/02/20 10:03	191-24-2	
Benzo(k)fluoranthene	**<0.0073**	ug/L	0.036	0.0073	1	10/01/20 08:50	10/02/20 10:03	207-08-9	
Chrysene	**<0.013**	ug/L	0.063	0.013	1	10/01/20 08:50	10/02/20 10:03	218-01-9	
Dibenz(a,h)anthracene	**<0.0096**	ug/L	0.048	0.0096	1	10/01/20 08:50	10/02/20 10:03	53-70-3	
Fluoranthene	**<0.010**	ug/L	0.051	0.010	1	10/01/20 08:50	10/02/20 10:03	206-44-0	
Fluorene	**<0.0077**	ug/L	0.038	0.0077	1	10/01/20 08:50	10/02/20 10:03	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.017**	ug/L	0.085	0.017	1	10/01/20 08:50	10/02/20 10:03	193-39-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Sample: GP-4W **Lab ID: 40215637004** Collected: 09/29/20 08:55 Received: 09/30/20 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Naphthalene	**<0.018**	ug/L	0.088	0.018	1	10/01/20 08:50	10/02/20 10:03	91-20-3	
Phenanthrene	**<0.013**	ug/L	0.066	0.013	1	10/01/20 08:50	10/02/20 10:03	85-01-8	
Pyrene	**<0.0074**	ug/L	0.037	0.0074	1	10/01/20 08:50	10/02/20 10:03	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63	%	39-120		1	10/01/20 08:50	10/02/20 10:03	321-60-8	
Terphenyl-d14 (S)	69	%	10-159		1	10/01/20 08:50	10/02/20 10:03	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/03/20 02:41	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/03/20 02:41	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/03/20 02:41	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/03/20 02:41	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/03/20 02:41	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/03/20 02:41	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/03/20 02:41	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/03/20 02:41	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/03/20 02:41	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		10/03/20 02:41	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/03/20 02:41	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/03/20 02:41	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/03/20 02:41	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/03/20 02:41	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/03/20 02:41	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/03/20 02:41	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/03/20 02:41	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/03/20 02:41	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/03/20 02:41	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/03/20 02:41	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/03/20 02:41	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/03/20 02:41	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/03/20 02:41	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/03/20 02:41	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/03/20 02:41	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/03/20 02:41	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/03/20 02:41	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/03/20 02:41	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		10/03/20 02:41	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/03/20 02:41	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/03/20 02:41	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/03/20 02:41	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/03/20 02:41	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/03/20 02:41	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/03/20 02:41	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/03/20 02:41	108-20-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Sample: GP-4W **Lab ID: 40215637004** Collected: 09/29/20 08:55 Received: 09/30/20 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		10/03/20 02:41	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		10/03/20 02:41	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		10/03/20 02:41	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/03/20 02:41	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/03/20 02:41	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/03/20 02:41	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/03/20 02:41	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/03/20 02:41	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		10/03/20 02:41	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/03/20 02:41	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/03/20 02:41	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/03/20 02:41	127-18-4	
Toluene	**<0.27**	ug/L	1.0	0.27	1		10/03/20 02:41	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		10/03/20 02:41	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/03/20 02:41	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/03/20 02:41	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/03/20 02:41	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/03/20 02:41	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/03/20 02:41	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/03/20 02:41	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/03/20 02:41	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/03/20 02:41	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/03/20 02:41	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/03/20 02:41	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/03/20 02:41	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/03/20 02:41	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		10/03/20 02:41	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/03/20 02:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Sample: GP-4W-D **Lab ID: 40215637005** Collected: 09/29/20 08:55 Received: 09/30/20 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
Aldrin	**<0.015**	ug/L	0.051	0.015	1	10/02/20 14:53	10/05/20 19:00	309-00-2	
alpha-BHC	**<0.0064**	ug/L	0.021	0.0064	1	10/02/20 14:53	10/05/20 19:00	319-84-6	
beta-BHC	**<0.010**	ug/L	0.035	0.010	1	10/02/20 14:53	10/05/20 19:00	319-85-7	
delta-BHC	**<0.013**	ug/L	0.044	0.013	1	10/02/20 14:53	10/05/20 19:00	319-86-8	
gamma-BHC (Lindane)	**<0.0064**	ug/L	0.021	0.0064	1	10/02/20 14:53	10/05/20 19:00	58-89-9	
Chlordane (Technical)	**<0.20**	ug/L	0.68	0.20	1	10/02/20 14:53	10/05/20 19:00	57-74-9	
alpha-Chlordane	**<0.0058**	ug/L	0.019	0.0058	1	10/02/20 14:53	10/05/20 19:00	5103-71-9	
gamma-Chlordane	**<0.0068**	ug/L	0.023	0.0068	1	10/02/20 14:53	10/05/20 19:00	5103-74-2	
4,4'-DDD	**<0.022**	ug/L	0.072	0.022	1	10/02/20 14:53	10/05/20 19:00	72-54-8	
4,4'-DDE	**<0.012**	ug/L	0.039	0.012	1	10/02/20 14:53	10/05/20 19:00	72-55-9	
4,4'-DDT	**<0.027**	ug/L	0.089	0.027	1	10/02/20 14:53	10/05/20 19:00	50-29-3	
Dieldrin	**<0.0090**	ug/L	0.030	0.0090	1	10/02/20 14:53	10/05/20 19:00	60-57-1	
Endosulfan I	**<0.0072**	ug/L	0.024	0.0072	1	10/02/20 14:53	10/05/20 19:00	959-98-8	
Endosulfan II	**<0.012**	ug/L	0.038	0.012	1	10/02/20 14:53	10/05/20 19:00	33213-65-9	
Endosulfan sulfate	**<0.013**	ug/L	0.045	0.013	1	10/02/20 14:53	10/05/20 19:00	1031-07-8	
Endrin	**<0.020**	ug/L	0.066	0.020	1	10/02/20 14:53	10/05/20 19:00	72-20-8	
Endrin aldehyde	**<0.018**	ug/L	0.059	0.018	1	10/02/20 14:53	10/05/20 19:00	7421-93-4	
Endrin ketone	**<0.025**	ug/L	0.083	0.025	1	10/02/20 14:53	10/05/20 19:00	53494-70-5	
Heptachlor	**<0.0091**	ug/L	0.030	0.0091	1	10/02/20 14:53	10/05/20 19:00	76-44-8	
Heptachlor epoxide	**<0.0071**	ug/L	0.024	0.0071	1	10/02/20 14:53	10/05/20 19:00	1024-57-3	
Methoxychlor	**<0.17**	ug/L	0.55	0.17	1	10/02/20 14:53	10/05/20 19:00	72-43-5	
Toxaphene	**<0.44**	ug/L	1.5	0.44	1	10/02/20 14:53	10/05/20 19:00	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	101	%.	55-130		1	10/02/20 14:53	10/05/20 19:00	877-09-8	
Decachlorobiphenyl (S)	108	%.	36-145		1	10/02/20 14:53	10/05/20 19:00	2051-24-3	v1
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.48	0.11	1	10/05/20 14:17	10/06/20 12:59	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.48	0.11	1	10/05/20 14:17	10/06/20 12:59	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.48	0.11	1	10/05/20 14:17	10/06/20 12:59	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.48	0.11	1	10/05/20 14:17	10/06/20 12:59	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.48	0.11	1	10/05/20 14:17	10/06/20 12:59	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.48	0.11	1	10/05/20 14:17	10/06/20 12:59	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.48	0.11	1	10/05/20 14:17	10/06/20 12:59	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.48	0.11	1	10/05/20 14:17	10/06/20 12:59	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	77	%	39-127		1	10/05/20 14:17	10/06/20 12:59	877-09-8	
Decachlorobiphenyl (S)	31	%	15-121		1	10/05/20 14:17	10/06/20 12:59	2051-24-3	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Arsenic	**8.1**	ug/L	5.0	1.4	5	10/02/20 07:11	10/06/20 19:43	7440-38-2	
Barium	**95.6**	ug/L	11.6	3.5	5	10/02/20 07:11	10/06/20 19:43	7440-39-3	
Cadmium	**<0.76**	ug/L	5.0	0.76	5	10/02/20 07:11	10/06/20 19:43	7440-43-9	D3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Sample: GP-4W-D **Lab ID: 40215637005** Collected: 09/29/20 08:55 Received: 09/30/20 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Chromium	**<5.1**	ug/L	17.0	5.1	5	10/02/20 07:11	10/06/20 19:43	7440-47-3	D3
Copper	**<9.5**	ug/L	31.8	9.5	5	10/02/20 07:11	10/06/20 19:43	7440-50-8	D3
Lead	**<1.2**	ug/L	5.0	1.2	5	10/02/20 07:11	10/06/20 19:43	7439-92-1	D3
Selenium	**<1.6**	ug/L	5.3	1.6	5	10/02/20 07:11	10/06/20 19:43	7782-49-2	D3
Silver	**<0.64**	ug/L	2.5	0.64	5	10/02/20 07:11	10/06/20 19:43	7440-22-4	D3
Zinc	**254**	ug/L	172	51.6	5	10/02/20 07:11	10/06/20 19:43	7440-66-6	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**10**	ug/L	5.0	1.4	5	10/02/20 07:05	10/06/20 21:18	7440-38-2	D9
Barium, Dissolved	**120**	ug/L	11.6	3.5	5	10/02/20 07:05	10/06/20 21:18	7440-39-3	CR
Cadmium, Dissolved	**<0.76**	ug/L	5.0	0.76	5	10/02/20 07:05	10/06/20 21:18	7440-43-9	D3
Chromium, Dissolved	**<5.1**	ug/L	17.0	5.1	5	10/02/20 07:05	10/06/20 21:18	7440-47-3	D3
Copper, Dissolved	**<9.5**	ug/L	31.8	9.5	5	10/02/20 07:05	10/06/20 21:18	7440-50-8	D3
Lead, Dissolved	**<1.2**	ug/L	5.0	1.2	5	10/02/20 07:05	10/06/20 21:18	7439-92-1	D3
Selenium, Dissolved	**<1.6**	ug/L	5.3	1.6	5	10/02/20 07:05	10/06/20 21:18	7782-49-2	D3
Silver, Dissolved	**<0.64**	ug/L	2.5	0.64	5	10/02/20 07:05	10/06/20 21:18	7440-22-4	D3
Zinc, Dissolved	**222**	ug/L	172	51.6	5	10/02/20 07:05	10/06/20 21:18	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury	**<0.066**	ug/L	0.20	0.066	1	10/05/20 10:35	10/06/20 09:58	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury, Dissolved	**<0.066**	ug/L	0.20	0.066	1	10/05/20 10:35	10/06/20 11:04	7439-97-6	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
1-Methylnaphthalene	**<0.0057**	ug/L	0.029	0.0057	1	10/01/20 08:50	10/02/20 10:22	90-12-0	
2-Methylnaphthalene	**0.0061J**	ug/L	0.024	0.0048	1	10/01/20 08:50	10/02/20 10:22	91-57-6	
Acenaphthene	**<0.0059**	ug/L	0.029	0.0059	1	10/01/20 08:50	10/02/20 10:22	83-32-9	
Acenaphthylene	**<0.0048**	ug/L	0.024	0.0048	1	10/01/20 08:50	10/02/20 10:22	208-96-8	
Anthracene	**<0.010**	ug/L	0.051	0.010	1	10/01/20 08:50	10/02/20 10:22	120-12-7	
Benzo(a)anthracene	**<0.0073**	ug/L	0.037	0.0073	1	10/01/20 08:50	10/02/20 10:22	56-55-3	
Benzo(a)pyrene	**<0.010**	ug/L	0.051	0.010	1	10/01/20 08:50	10/02/20 10:22	50-32-8	
Benzo(b)fluoranthene	**<0.0056**	ug/L	0.028	0.0056	1	10/01/20 08:50	10/02/20 10:22	205-99-2	
Benzo(g,h,i)perylene	**<0.0066**	ug/L	0.033	0.0066	1	10/01/20 08:50	10/02/20 10:22	191-24-2	
Benzo(k)fluoranthene	**<0.0073**	ug/L	0.037	0.0073	1	10/01/20 08:50	10/02/20 10:22	207-08-9	
Chrysene	**<0.013**	ug/L	0.063	0.013	1	10/01/20 08:50	10/02/20 10:22	218-01-9	
Dibenz(a,h)anthracene	**<0.0097**	ug/L	0.049	0.0097	1	10/01/20 08:50	10/02/20 10:22	53-70-3	
Fluoranthene	**<0.010**	ug/L	0.052	0.010	1	10/01/20 08:50	10/02/20 10:22	206-44-0	
Fluorene	**<0.0077**	ug/L	0.039	0.0077	1	10/01/20 08:50	10/02/20 10:22	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.017**	ug/L	0.086	0.017	1	10/01/20 08:50	10/02/20 10:22	193-39-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Sample: GP-4W-D **Lab ID: 40215637005** Collected: 09/29/20 08:55 Received: 09/30/20 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Naphthalene	**<0.018**	ug/L	0.089	0.018	1	10/01/20 08:50	10/02/20 10:22	91-20-3	
Phenanthrene	**<0.013**	ug/L	0.067	0.013	1	10/01/20 08:50	10/02/20 10:22	85-01-8	
Pyrene	**<0.0074**	ug/L	0.037	0.0074	1	10/01/20 08:50	10/02/20 10:22	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	53	%	39-120		1	10/01/20 08:50	10/02/20 10:22	321-60-8	
Terphenyl-d14 (S)	70	%	10-159		1	10/01/20 08:50	10/02/20 10:22	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/03/20 03:02	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/03/20 03:02	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/03/20 03:02	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/03/20 03:02	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/03/20 03:02	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/03/20 03:02	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/03/20 03:02	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/03/20 03:02	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/03/20 03:02	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		10/03/20 03:02	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/03/20 03:02	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/03/20 03:02	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/03/20 03:02	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/03/20 03:02	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/03/20 03:02	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/03/20 03:02	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/03/20 03:02	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/03/20 03:02	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/03/20 03:02	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/03/20 03:02	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/03/20 03:02	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/03/20 03:02	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/03/20 03:02	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/03/20 03:02	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/03/20 03:02	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/03/20 03:02	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/03/20 03:02	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/03/20 03:02	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		10/03/20 03:02	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/03/20 03:02	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/03/20 03:02	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/03/20 03:02	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/03/20 03:02	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/03/20 03:02	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/03/20 03:02	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/03/20 03:02	108-20-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Sample: GP-4W-D **Lab ID: 40215637005** Collected: 09/29/20 08:55 Received: 09/30/20 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		10/03/20 03:02	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		10/03/20 03:02	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		10/03/20 03:02	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/03/20 03:02	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/03/20 03:02	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/03/20 03:02	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/03/20 03:02	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/03/20 03:02	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		10/03/20 03:02	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/03/20 03:02	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/03/20 03:02	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/03/20 03:02	127-18-4	
Toluene	**<0.27**	ug/L	1.0	0.27	1		10/03/20 03:02	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		10/03/20 03:02	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/03/20 03:02	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/03/20 03:02	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/03/20 03:02	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/03/20 03:02	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/03/20 03:02	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/03/20 03:02	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/03/20 03:02	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/03/20 03:02	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/03/20 03:02	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/03/20 03:02	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/03/20 03:02	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/03/20 03:02	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		10/03/20 03:02	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		10/03/20 03:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Sample: TRIP BLANK **Lab ID: 40215637006** Collected: 09/29/20 00:00 Received: 09/30/20 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/02/20 22:23	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/02/20 22:23	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/02/20 22:23	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/02/20 22:23	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/02/20 22:23	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/02/20 22:23	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/02/20 22:23	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/02/20 22:23	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/02/20 22:23	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		10/02/20 22:23	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/02/20 22:23	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/02/20 22:23	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/02/20 22:23	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/02/20 22:23	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/02/20 22:23	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/02/20 22:23	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/02/20 22:23	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/02/20 22:23	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/02/20 22:23	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/02/20 22:23	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/02/20 22:23	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/02/20 22:23	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/02/20 22:23	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/02/20 22:23	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/02/20 22:23	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/02/20 22:23	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/02/20 22:23	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/02/20 22:23	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		10/02/20 22:23	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/02/20 22:23	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/02/20 22:23	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/02/20 22:23	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/02/20 22:23	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/02/20 22:23	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/02/20 22:23	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/02/20 22:23	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		10/02/20 22:23	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		10/02/20 22:23	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		10/02/20 22:23	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/02/20 22:23	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/02/20 22:23	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/02/20 22:23	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/02/20 22:23	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/02/20 22:23	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		10/02/20 22:23	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Sample: TRIP BLANK **Lab ID: 40215637006** Collected: 09/29/20 00:00 Received: 09/30/20 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/02/20 22:23	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/02/20 22:23	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/02/20 22:23	127-18-4	
Toluene	**<0.27**	ug/L	1.0	0.27	1		10/02/20 22:23	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		10/02/20 22:23	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/02/20 22:23	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/02/20 22:23	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/02/20 22:23	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/02/20 22:23	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/02/20 22:23	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/02/20 22:23	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/02/20 22:23	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/02/20 22:23	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/02/20 22:23	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/02/20 22:23	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/02/20 22:23	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/02/20 22:23	460-00-4	HS
Dibromofluoromethane (S)	95	%	70-130		1		10/02/20 22:23	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/02/20 22:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

QC Batch: 367332 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40215637001, 40215637002, 40215637003, 40215637004, 40215637005

METHOD BLANK: 2123526 Matrix: Water
Associated Lab Samples: 40215637001, 40215637002, 40215637003, 40215637004, 40215637005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	10/06/20 09:35	

LABORATORY CONTROL SAMPLE: 2123527

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.7	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2123528 2123529

Parameter	Units	40215637001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.066	5	5	4.4	4.7	89	93	85-115	5	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

QC Batch: 367333 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40215637001, 40215637002, 40215637003, 40215637004, 40215637005

METHOD BLANK: 2123530 Matrix: Water
Associated Lab Samples: 40215637001, 40215637002, 40215637003, 40215637004, 40215637005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.066	0.20	10/06/20 10:31	

LABORATORY CONTROL SAMPLE: 2123531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2123532 2123533

Parameter	Units	40215565001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	<0.066	5	5	4.9	5.0	98	99	85-115	1	20	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

QC Batch: 367155
QC Batch Method: EPA 3010
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40215637001, 40215637002, 40215637003, 40215637004, 40215637005

METHOD BLANK: 2122341 Matrix: Water
Associated Lab Samples: 40215637001, 40215637002, 40215637003, 40215637004, 40215637005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.28	1.0	10/06/20 18:21	
Barium	ug/L	<0.70	2.3	10/06/20 18:21	
Cadmium	ug/L	<0.15	1.0	10/06/20 18:21	
Chromium	ug/L	<1.0	3.4	10/06/20 18:21	
Copper	ug/L	<1.9	6.4	10/06/20 18:21	
Lead	ug/L	<0.24	1.0	10/06/20 18:21	
Selenium	ug/L	<0.32	1.1	10/06/20 18:21	
Silver	ug/L	<0.13	0.50	10/06/20 18:21	
Zinc	ug/L	<10.3	34.4	10/06/20 18:21	

LABORATORY CONTROL SAMPLE: 2122342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	500	100	80-120	
Barium	ug/L	500	483	97	80-120	
Cadmium	ug/L	500	497	99	80-120	
Chromium	ug/L	500	472	94	80-120	
Copper	ug/L	500	476	95	80-120	
Lead	ug/L	500	460	92	80-120	
Selenium	ug/L	500	522	104	80-120	
Silver	ug/L	250	251	100	80-120	
Zinc	ug/L	500	483	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2122343 2122344

Parameter	Units	40215637002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	115	500	500	622	632	101	103	75-125	2	20	
Barium	ug/L	708	500	500	1180	1200	95	98	75-125	1	20	
Cadmium	ug/L	<0.76	500	500	477	482	95	96	75-125	1	20	
Chromium	ug/L	<5.1	500	500	472	480	93	95	75-125	2	20	
Copper	ug/L	<9.5	500	500	458	466	91	93	75-125	2	20	
Lead	ug/L	3.7J	500	500	502	506	100	100	75-125	1	20	
Selenium	ug/L	<1.6	500	500	530	524	106	104	75-125	1	20	
Silver	ug/L	<0.64	250	250	233	236	93	94	75-125	1	20	
Zinc	ug/L	<51.6	500	500	481	490	94	96	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

QC Batch: 367154
QC Batch Method: EPA 3010
Analysis Method: EPA 6020
Analysis Description: 6020 MET Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40215637001, 40215637002, 40215637003, 40215637004, 40215637005

METHOD BLANK: 2122337 Matrix: Water
Associated Lab Samples: 40215637001, 40215637002, 40215637003, 40215637004, 40215637005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.28	1.0	10/06/20 19:56	
Barium, Dissolved	ug/L	<0.70	2.3	10/06/20 19:56	
Cadmium, Dissolved	ug/L	<0.15	1.0	10/06/20 19:56	
Chromium, Dissolved	ug/L	<1.0	3.4	10/06/20 19:56	
Copper, Dissolved	ug/L	<1.9	6.4	10/06/20 19:56	
Lead, Dissolved	ug/L	<0.24	1.0	10/06/20 19:56	
Selenium, Dissolved	ug/L	<0.32	1.1	10/06/20 19:56	
Silver, Dissolved	ug/L	<0.13	0.50	10/06/20 19:56	
Zinc, Dissolved	ug/L	<10.3	34.4	10/06/20 19:56	

LABORATORY CONTROL SAMPLE: 2122338

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	488	98	80-120	
Barium, Dissolved	ug/L	500	468	94	80-120	
Cadmium, Dissolved	ug/L	500	480	96	80-120	
Chromium, Dissolved	ug/L	500	459	92	80-120	
Copper, Dissolved	ug/L	500	462	92	80-120	
Lead, Dissolved	ug/L	500	450	90	80-120	
Selenium, Dissolved	ug/L	500	506	101	80-120	
Silver, Dissolved	ug/L	250	243	97	80-120	
Zinc, Dissolved	ug/L	500	474	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2122339 2122340

Parameter	Units	40215637001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	25.1	500	500	531	544	101	104	75-125	2	20	
Barium, Dissolved	ug/L	720	500	500	1190	1210	93	97	75-125	2	20	
Cadmium, Dissolved	ug/L	1.5J	500	500	479	487	95	97	75-125	2	20	
Chromium, Dissolved	ug/L	<5.1	500	500	474	482	94	96	75-125	2	20	
Copper, Dissolved	ug/L	<9.5	500	500	459	464	91	92	75-125	1	20	
Lead, Dissolved	ug/L	4.0J	500	500	500	508	99	101	75-125	2	20	
Selenium, Dissolved	ug/L	2.7J	500	500	524	537	104	107	75-125	2	20	
Silver, Dissolved	ug/L	0.88J	250	250	233	236	93	94	75-125	1	20	
Zinc, Dissolved	ug/L	<51.6	500	500	484	492	96	97	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

QC Batch: 367085
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40215637001, 40215637002, 40215637003, 40215637004, 40215637005, 40215637006

METHOD BLANK: 2121944 Matrix: Water
Associated Lab Samples: 40215637001, 40215637002, 40215637003, 40215637004, 40215637005, 40215637006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	10/02/20 17:01	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	10/02/20 17:01	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	10/02/20 17:01	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	10/02/20 17:01	
1,1-Dichloroethane	ug/L	<0.27	1.0	10/02/20 17:01	
1,1-Dichloroethene	ug/L	<0.24	1.0	10/02/20 17:01	
1,1-Dichloropropene	ug/L	<0.54	1.8	10/02/20 17:01	
1,2,3-Trichlorobenzene	ug/L	<2.2	7.4	10/02/20 17:01	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	10/02/20 17:01	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	10/02/20 17:01	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	10/02/20 17:01	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	10/02/20 17:01	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	10/02/20 17:01	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	10/02/20 17:01	
1,2-Dichloroethane	ug/L	<0.28	1.0	10/02/20 17:01	
1,2-Dichloropropane	ug/L	<0.28	1.0	10/02/20 17:01	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	10/02/20 17:01	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	10/02/20 17:01	
1,3-Dichloropropane	ug/L	<0.83	2.8	10/02/20 17:01	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	10/02/20 17:01	
2,2-Dichloropropane	ug/L	<2.3	7.6	10/02/20 17:01	
2-Chlorotoluene	ug/L	<0.93	5.0	10/02/20 17:01	
4-Chlorotoluene	ug/L	<0.76	2.5	10/02/20 17:01	
Benzene	ug/L	<0.25	1.0	10/02/20 17:01	
Bromobenzene	ug/L	<0.24	1.0	10/02/20 17:01	
Bromochloromethane	ug/L	<0.36	5.0	10/02/20 17:01	
Bromodichloromethane	ug/L	<0.36	1.2	10/02/20 17:01	
Bromoform	ug/L	<4.0	13.2	10/02/20 17:01	
Bromomethane	ug/L	<0.97	5.0	10/02/20 17:01	
Carbon tetrachloride	ug/L	<1.1	3.6	10/02/20 17:01	
Chlorobenzene	ug/L	<0.71	2.4	10/02/20 17:01	
Chloroethane	ug/L	<1.3	5.0	10/02/20 17:01	
Chloroform	ug/L	<1.3	5.0	10/02/20 17:01	
Chloromethane	ug/L	<2.2	7.3	10/02/20 17:01	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	10/02/20 17:01	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	10/02/20 17:01	
Dibromochloromethane	ug/L	<2.6	8.7	10/02/20 17:01	
Dibromomethane	ug/L	<0.94	3.1	10/02/20 17:01	
Dichlorodifluoromethane	ug/L	<0.50	5.0	10/02/20 17:01	
Diisopropyl ether	ug/L	<1.9	6.3	10/02/20 17:01	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

METHOD BLANK: 2121944 Matrix: Water
Associated Lab Samples: 40215637001, 40215637002, 40215637003, 40215637004, 40215637005, 40215637006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.32	1.1	10/02/20 17:01	
Hexachloro-1,3-butadiene	ug/L	<1.5	4.9	10/02/20 17:01	
Isopropylbenzene (Cumene)	ug/L	<1.7	5.6	10/02/20 17:01	
m&p-Xylene	ug/L	<0.47	2.0	10/02/20 17:01	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	10/02/20 17:01	
Methylene Chloride	ug/L	<0.58	5.0	10/02/20 17:01	
n-Butylbenzene	ug/L	<0.71	2.4	10/02/20 17:01	
n-Propylbenzene	ug/L	<0.81	5.0	10/02/20 17:01	
Naphthalene	ug/L	<1.2	5.0	10/02/20 17:01	
o-Xylene	ug/L	<0.26	1.0	10/02/20 17:01	
p-Isopropyltoluene	ug/L	<0.80	2.7	10/02/20 17:01	
sec-Butylbenzene	ug/L	<0.85	5.0	10/02/20 17:01	
Styrene	ug/L	<3.0	10.0	10/02/20 17:01	
tert-Butylbenzene	ug/L	<0.30	1.0	10/02/20 17:01	
Tetrachloroethene	ug/L	<0.33	1.1	10/02/20 17:01	
Toluene	ug/L	<0.27	1.0	10/02/20 17:01	
trans-1,2-Dichloroethene	ug/L	<0.46	1.5	10/02/20 17:01	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	10/02/20 17:01	
Trichloroethene	ug/L	<0.26	1.0	10/02/20 17:01	
Trichlorofluoromethane	ug/L	<0.21	1.0	10/02/20 17:01	
Vinyl chloride	ug/L	<0.17	1.0	10/02/20 17:01	
4-Bromofluorobenzene (S)	%	97	70-130	10/02/20 17:01	
Dibromofluoromethane (S)	%	96	70-130	10/02/20 17:01	
Toluene-d8 (S)	%	98	70-130	10/02/20 17:01	

LABORATORY CONTROL SAMPLE: 2121945

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.5	107	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	44.9	90	64-131	
1,1,2-Trichloroethane	ug/L	50	48.4	97	70-130	
1,1-Dichloroethane	ug/L	50	61.1	122	69-163	
1,1-Dichloroethene	ug/L	50	51.8	104	77-123	
1,2,4-Trichlorobenzene	ug/L	50	52.6	105	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	38.2	76	63-130	
1,2-Dibromoethane (EDB)	ug/L	50	45.2	90	70-130	
1,2-Dichlorobenzene	ug/L	50	49.5	99	70-130	
1,2-Dichloroethane	ug/L	50	50.2	100	78-142	
1,2-Dichloropropane	ug/L	50	52.4	105	86-134	
1,3-Dichlorobenzene	ug/L	50	50.9	102	70-130	
1,4-Dichlorobenzene	ug/L	50	50.0	100	70-130	
Benzene	ug/L	50	55.2	110	70-130	
Bromodichloromethane	ug/L	50	56.5	113	70-130	
Bromoform	ug/L	50	46.2	92	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

LABORATORY CONTROL SAMPLE: 2121945

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	39.7	79	39-129	
Carbon tetrachloride	ug/L	50	61.9	124	70-132	
Chlorobenzene	ug/L	50	51.9	104	70-130	
Chloroethane	ug/L	50	47.4	95	66-140	
Chloroform	ug/L	50	55.0	110	75-132	
Chloromethane	ug/L	50	35.1	70	32-143	
cis-1,2-Dichloroethene	ug/L	50	52.1	104	70-130	
cis-1,3-Dichloropropene	ug/L	50	51.6	103	70-130	
Dibromochloromethane	ug/L	50	52.6	105	70-130	
Dichlorodifluoromethane	ug/L	50	23.1	46	10-141	
Ethylbenzene	ug/L	50	55.4	111	80-120	
Isopropylbenzene (Cumene)	ug/L	50	53.8	108	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	45.2	90	61-129	
Methylene Chloride	ug/L	50	57.7	115	70-130	
o-Xylene	ug/L	50	52.7	105	70-130	
Styrene	ug/L	50	53.6	107	70-130	
Tetrachloroethene	ug/L	50	55.8	112	70-130	
Toluene	ug/L	50	53.3	107	80-120	
trans-1,2-Dichloroethene	ug/L	50	56.8	114	70-130	
trans-1,3-Dichloropropene	ug/L	50	43.5	87	69-130	
Trichloroethene	ug/L	50	56.4	113	70-130	
Trichlorofluoromethane	ug/L	50	53.1	106	75-145	
Vinyl chloride	ug/L	50	43.1	86	51-140	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2121950 2121951

Parameter	Units	40215657007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	54.9	54.5	110	109	70-130	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	46.9	44.6	94	89	64-137	5	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	50.4	48.1	101	96	70-137	5	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	60.9	61.1	122	122	69-163	0	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	55.3	53.3	111	107	77-129	4	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	54.5	50.7	109	101	68-130	7	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	38.9	37.9	78	76	60-130	3	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	47.5	46.8	95	94	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	51.0	48.2	102	96	70-130	6	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	50.3	49.1	101	98	78-145	2	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	53.9	52.3	108	105	86-135	3	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	52.5	49.7	105	99	70-130	5	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2121950 2121951

Parameter	Units	40215657007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	<0.94	50	50	50.5	48.5	101	97	70-130	4	20	
Benzene	ug/L	<0.25	50	50	55.8	54.6	112	109	70-136	2	20	
Bromodichloromethane	ug/L	<0.36	50	50	58.1	56.3	116	113	70-130	3	20	
Bromoform	ug/L	<4.0	50	50	47.7	47.0	95	94	69-130	1	20	
Bromomethane	ug/L	<0.97	50	50	44.9	45.2	90	90	39-138	1	20	
Carbon tetrachloride	ug/L	<1.1	50	50	62.4	60.7	125	121	70-142	3	20	
Chlorobenzene	ug/L	<0.71	50	50	53.0	51.7	106	103	70-130	3	20	
Chloroethane	ug/L	<1.3	50	50	50.3	51.0	101	102	61-149	1	20	
Chloroform	ug/L	<1.3	50	50	54.7	55.3	109	111	75-133	1	20	
Chloromethane	ug/L	<2.2	50	50	45.7	45.6	91	91	32-143	0	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	51.6	51.7	103	103	70-130	0	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	52.9	52.3	106	105	70-130	1	20	
Dibromochloromethane	ug/L	<2.6	50	50	55.8	53.8	112	108	70-130	4	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	44.6	42.1	89	84	10-141	6	20	
Ethylbenzene	ug/L	<0.32	50	50	56.5	53.8	113	108	80-120	5	20	
Isopropylbenzene (Cumene)	ug/L	<1.7	50	50	55.1	52.2	110	104	70-130	5	20	
m&p-Xylene	ug/L	<0.47	100	100	109	104	109	104	70-130	5	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	46.1	45.6	92	91	61-136	1	20	
Methylene Chloride	ug/L	<0.58	50	50	57.4	57.8	115	116	68-137	1	20	
o-Xylene	ug/L	<0.26	50	50	53.1	50.7	106	101	70-130	5	20	
Styrene	ug/L	<3.0	50	50	55.0	53.3	110	107	70-130	3	20	
Tetrachloroethene	ug/L	<0.33	50	50	57.6	54.1	115	108	70-130	6	20	
Toluene	ug/L	<0.27	50	50	54.7	52.9	109	106	80-120	3	20	
trans-1,2-Dichloroethene	ug/L	<0.46	50	50	57.6	57.2	115	114	70-130	1	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	46.1	43.9	92	88	69-130	5	20	
Trichloroethene	ug/L	<0.26	50	50	58.1	56.4	116	113	70-130	3	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	57.3	54.8	115	110	74-157	4	20	
Vinyl chloride	ug/L	<0.17	50	50	51.9	50.9	104	102	51-140	2	20	
4-Bromofluorobenzene (S)	%						100	101	70-130			
Dibromofluoromethane (S)	%						95	95	70-130			
Toluene-d8 (S)	%						98	97	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

QC Batch: 367386
QC Batch Method: EPA 3510
Analysis Method: EPA 8082
Analysis Description: 8082 GCS PCB
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40215637001, 40215637002, 40215637003, 40215637004, 40215637005

METHOD BLANK: 2123696 Matrix: Water
Associated Lab Samples: 40215637001, 40215637002, 40215637003, 40215637004, 40215637005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	<0.11	0.50	10/06/20 10:24	
PCB-1221 (Aroclor 1221)	ug/L	<0.11	0.50	10/06/20 10:24	
PCB-1232 (Aroclor 1232)	ug/L	<0.11	0.50	10/06/20 10:24	
PCB-1242 (Aroclor 1242)	ug/L	<0.11	0.50	10/06/20 10:24	
PCB-1248 (Aroclor 1248)	ug/L	<0.11	0.50	10/06/20 10:24	
PCB-1254 (Aroclor 1254)	ug/L	<0.11	0.50	10/06/20 10:24	
PCB-1260 (Aroclor 1260)	ug/L	<0.11	0.50	10/06/20 10:24	
Decachlorobiphenyl (S)	%	42	15-121	10/06/20 10:24	
Tetrachloro-m-xylene (S)	%	82	39-127	10/06/20 10:24	

LABORATORY CONTROL SAMPLE & LCSD: 2123697 2123698

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L		<0.11	<0.11					20	
PCB-1221 (Aroclor 1221)	ug/L		<0.11	<0.11					20	
PCB-1232 (Aroclor 1232)	ug/L		<0.11	<0.11					20	
PCB-1242 (Aroclor 1242)	ug/L		<0.11	<0.11					20	
PCB-1248 (Aroclor 1248)	ug/L		<0.11	<0.11					20	
PCB-1254 (Aroclor 1254)	ug/L		<0.11	<0.11					20	
PCB-1260 (Aroclor 1260)	ug/L	5	4.4	3.9	87	79	72-110	10	20	
Decachlorobiphenyl (S)	%				42	40	15-121			
Tetrachloro-m-xylene (S)	%				86	81	39-127			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

QC Batch: 367047
QC Batch Method: EPA 3510
Analysis Method: EPA 8270 by HVI
Analysis Description: 8270 Water PAH by HVI
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40215637001, 40215637002, 40215637003, 40215637004, 40215637005

METHOD BLANK: 2121669 Matrix: Water
Associated Lab Samples: 40215637001, 40215637002, 40215637003, 40215637004, 40215637005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	10/01/20 11:06	
2-Methylnaphthalene	ug/L	<0.0049	0.024	10/01/20 11:06	
Acenaphthene	ug/L	<0.0061	0.030	10/01/20 11:06	
Acenaphthylene	ug/L	<0.0050	0.025	10/01/20 11:06	
Anthracene	ug/L	<0.010	0.052	10/01/20 11:06	
Benzo(a)anthracene	ug/L	<0.0076	0.038	10/01/20 11:06	
Benzo(a)pyrene	ug/L	<0.011	0.053	10/01/20 11:06	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	10/01/20 11:06	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	10/01/20 11:06	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	10/01/20 11:06	
Chrysene	ug/L	<0.013	0.065	10/01/20 11:06	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	10/01/20 11:06	
Fluoranthene	ug/L	<0.011	0.053	10/01/20 11:06	
Fluorene	ug/L	<0.0080	0.040	10/01/20 11:06	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	10/01/20 11:06	
Naphthalene	ug/L	<0.018	0.092	10/01/20 11:06	
Phenanthrene	ug/L	<0.014	0.069	10/01/20 11:06	
Pyrene	ug/L	<0.0076	0.038	10/01/20 11:06	
2-Fluorobiphenyl (S)	%	66	39-120	10/01/20 11:06	
Terphenyl-d14 (S)	%	99	10-159	10/01/20 11:06	

LABORATORY CONTROL SAMPLE: 2121670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.2	59	37-120	
2-Methylnaphthalene	ug/L	2	1.2	60	38-120	
Acenaphthene	ug/L	2	1.4	68	49-120	
Acenaphthylene	ug/L	2	1.2	59	43-85	
Anthracene	ug/L	2	1.5	75	57-110	
Benzo(a)anthracene	ug/L	2	1.5	75	47-118	
Benzo(a)pyrene	ug/L	2	1.6	78	70-120	
Benzo(b)fluoranthene	ug/L	2	1.6	78	54-97	
Benzo(g,h,i)perylene	ug/L	2	0.99	50	26-74	
Benzo(k)fluoranthene	ug/L	2	1.9	95	73-126	
Chrysene	ug/L	2	1.9	94	75-151	
Dibenz(a,h)anthracene	ug/L	2	0.89	45	13-72	
Fluoranthene	ug/L	2	1.5	74	63-120	
Fluorene	ug/L	2	1.3	67	53-120	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.5	73	51-101	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

LABORATORY CONTROL SAMPLE: 2121670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	2	1.2	61	41-120	
Phenanthrene	ug/L	2	1.4	71	47-100	
Pyrene	ug/L	2	1.7	87	70-128	
2-Fluorobiphenyl (S)	%			69	39-120	
Terphenyl-d14 (S)	%			98	10-159	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2121671 2121672

Parameter	Units	40215640003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	54.4	2.3	2.1	58.6	54.6	185	7	16-120	7	28	M6
2-Methylnaphthalene	ug/L	56.1	2.3	2.1	54.5	49.9	-71	-297	29-120	9	31	M6
Acenaphthene	ug/L	15.7	2.3	2.1	15.3J	15.6J	-16	-6	33-120		30	M6
Acenaphthylene	ug/L	<2.5	2.3	2.1	<2.8	<2.6	79	65	21-85		26	
Anthracene	ug/L	<5.3	2.3	2.1	<5.9	<5.4	0	0	16-114		36	M6
Benzo(a)anthracene	ug/L	<3.9	2.3	2.1	<4.3	<3.9	0	0	10-118		35	M6
Benzo(a)pyrene	ug/L	<5.4	2.3	2.1	<6.0	<5.5	0	0	10-120		37	M6
Benzo(b)fluoranthene	ug/L	<2.9	2.3	2.1	<3.3	<3.0	0	0	10-97		36	M6
Benzo(g,h,i)perylene	ug/L	<3.5	2.3	2.1	<3.9	<3.5	0	0	10-74		45	M6
Benzo(k)fluoranthene	ug/L	<3.9	2.3	2.1	<4.3	<3.9	0	0	10-126		41	M6
Chrysene	ug/L	<6.7	2.3	2.1	<7.4	<6.8	0	0	10-161		30	M6
Dibenz(a,h)anthracene	ug/L	<5.1	2.3	2.1	<5.7	<5.2	0	0	10-72		50	M6
Fluoranthene	ug/L	<5.4	2.3	2.1	<6.1	<5.6	0	0	35-120		33	M6
Fluorene	ug/L	<4.1	2.3	2.1	<4.5	<4.2	0	0	17-120		33	M6
Indeno(1,2,3-cd)pyrene	ug/L	<9.0	2.3	2.1	<10.0	<9.2	0	0	10-101		41	M6
Naphthalene	ug/L	2680	2.3	2.1	2620	2390	-2680	-14100	24-120	9	30	M6
Phenanthrene	ug/L	<7.0	2.3	2.1	<7.8	<7.2	0	190	15-100		30	M6
Pyrene	ug/L	<3.9	2.3	2.1	<4.3	<4.0	0	0	14-137		31	M6
2-Fluorobiphenyl (S)	%						0	0	39-120			S4
Terphenyl-d14 (S)	%						0	0	10-159			S4

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 367417

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

CR	The dissolved metal result was greater than the total metal result for this element. Results were confirmed by reanalysis.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D9	Dissolved result is greater than the total. Data is within laboratory control limits.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 19M106.20 FINCANTIERI MARINETT
Pace Project No.: 40215637

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40215637001	**GP-1W**	EPA Mod. 3510C	702134	EPA 8081B	702508
40215637002	**GP-3W**	EPA Mod. 3510C	702134	EPA 8081B	702508
40215637003	**GP-6W**	EPA Mod. 3510C	702134	EPA 8081B	702508
40215637004	**GP-4W**	EPA Mod. 3510C	702134	EPA 8081B	702508
40215637005	**GP-4W-D**	EPA Mod. 3510C	702134	EPA 8081B	702508
40215637001	**GP-1W**	EPA 3510	367386	EPA 8082	367417
40215637002	**GP-3W**	EPA 3510	367386	EPA 8082	367417
40215637003	**GP-6W**	EPA 3510	367386	EPA 8082	367417
40215637004	**GP-4W**	EPA 3510	367386	EPA 8082	367417
40215637005	**GP-4W-D**	EPA 3510	367386	EPA 8082	367417
40215637001	**GP-1W**	EPA 3010	367155	EPA 6020	367247
40215637002	**GP-3W**	EPA 3010	367155	EPA 6020	367247
40215637003	**GP-6W**	EPA 3010	367155	EPA 6020	367247
40215637004	**GP-4W**	EPA 3010	367155	EPA 6020	367247
40215637005	**GP-4W-D**	EPA 3010	367155	EPA 6020	367247
40215637001	**GP-1W**	EPA 3010	367154	EPA 6020	367246
40215637002	**GP-3W**	EPA 3010	367154	EPA 6020	367246
40215637003	**GP-6W**	EPA 3010	367154	EPA 6020	367246
40215637004	**GP-4W**	EPA 3010	367154	EPA 6020	367246
40215637005	**GP-4W-D**	EPA 3010	367154	EPA 6020	367246
40215637001	**GP-1W**	EPA 7470	367332	EPA 7470	367441
40215637002	**GP-3W**	EPA 7470	367332	EPA 7470	367441
40215637003	**GP-6W**	EPA 7470	367332	EPA 7470	367441
40215637004	**GP-4W**	EPA 7470	367332	EPA 7470	367441
40215637005	**GP-4W-D**	EPA 7470	367332	EPA 7470	367441
40215637001	**GP-1W**	EPA 7470	367333	EPA 7470	367442
40215637002	**GP-3W**	EPA 7470	367333	EPA 7470	367442
40215637003	**GP-6W**	EPA 7470	367333	EPA 7470	367442
40215637004	**GP-4W**	EPA 7470	367333	EPA 7470	367442
40215637005	**GP-4W-D**	EPA 7470	367333	EPA 7470	367442
40215637001	**GP-1W**	EPA 3510	367047	EPA 8270 by HVI	367072
40215637002	**GP-3W**	EPA 3510	367047	EPA 8270 by HVI	367072
40215637003	**GP-6W**	EPA 3510	367047	EPA 8270 by HVI	367072
40215637004	**GP-4W**	EPA 3510	367047	EPA 8270 by HVI	367072
40215637005	**GP-4W-D**	EPA 3510	367047	EPA 8270 by HVI	367072
40215637001	**GP-1W**	EPA 8260	367085		
40215637002	**GP-3W**	EPA 8260	367085		
40215637003	**GP-6W**	EPA 8260	367085		
40215637004	**GP-4W**	EPA 8260	367085		
40215637005	**GP-4W-D**	EPA 8260	367085		
40215637006	**TRIP BLANK**	EPA 8260	367085		

40215637

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

1 of 1

Lab Information:

Lab Name:	Pace Analytical Services, Inc.
Address:	1241 Bellevue Street, Ste. 9, Green Bay, WI 54302
Lab PM:	Tod Noltemeyer
Phone/Fax:	608.232.3300
Lab PM email:	Tod.Noltemeyer@pacelabs.com
Applicable Lab Quote #	

Project Information:

Site ID #:	FMM B34/B35 Supplemental Yard Inv.
Project #:	19M106.20
Site Address:	Fincantieri Marinette Marine 1600 Ely Street
City-State-Zip:	Marinette, WI 54143
Site PM Name:	Denis Roznowski
Phone/Fax:	(920) 496-6756
Sampler Name:	Rick Panosh, Bob Meller

Other Information:

Send Invoice to:	invoices@foth.com
Address:	2121 Innovation Ct.
City/State:	De Pere WI 54115
Phone #:	920-496-6687
Foth Project No.:	19M106.20
Send EDD to:	Steve.Lehrke@foth.com
CC Hard copy report to:	
CC Electronic reports (lab report and data in spreadsheet format):	denis.roznowski@foth.com; rick.panosh@foth.com; steve.lehrke@foth.com;

Task: Groundwater/Water Chemistry Sampling

Turn Around Time: Standard (or 7-day)

QC level Required: Standard Level II Report

ITEM #	Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	MATRIX CODE	G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	Comments/Lab Sample I.D.	Preservative: GW/Water = HCl	GW/Water = HCl	GW/Water = None	GW/Water = None	GW/Water = HNO_3	GW/Water = HNO_3	GW/Water = None	GW/Water = HNO_3 Filtered	GW/Water = HNO_3 Filtered					
Analysis:									VOC (EPA 8260)	PVOC (EPA 8260)	PAH (EPA 8270-HVI)	Total PCBs (EPA 8082)	RCRA Metals - Total (EPA 6020 & 7470)	Cu and Zn Metals - Total (EPA 6020)	Pesticides EPA 8081)	RCRA Metals - Diss (EPA 6020 & 7470)	Cu and Zn Metals - Diss (EPA 6020)		HOLD FOR INSTRUCTIONS				
1	GP-1W	GP-1W	GW	G	9/29/20	1225	9		X		X	X	X	X	X	X	X					001
2	GP-3W	GP-3W	GW	G	9/29/20	1425	9		X		X	X	X	X	X	X	X					002
3	GP-6W	GP-6W	GW	G	9/29/20	1045	9		X		X	X	X	X	X	X	X					003
4	GP-4W	GP-4W	GW	G	9/29/20	0855	9		X		X	X	X	X	X	X	X					004
5	GP-4W-D	GP-4W	GW	G	9/29/20	0855	9		X		X	X	X	X	X	X	X					005
6	Trip Blank		W	G	9/29/20		2		X													006
7																						
8																						
9																						
10																						

Additional Comments/Special Instructions:

All samples unfiltered except dissolved metals fraction.

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	9-30-20	1015	[signature] Pace	9/30/20	1015

Sample Receipt Conditions

Temp in OC	Samples on Ice?	Sample Intact?	Trip Blank?
3.3	(Y) N	(Y) N	(Y) N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SHIPPING INFO

Company: FedEx

Tracking #:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Rick Panosh

SIGNATURE of SAMPLER: [signature]

DATE Signed: 9-30-20 1015

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: Foth

Project # 40215637

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☐N/A

Lab Lot# of pH paper: 10D4194 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: SKW Date/ Time:

	Glass								Plastic					Vials						Jars				General								
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001	2					2						2					3														X		2.5 / 5 / 10
002	2					2						2					3														X		2.5 / 5 / 10
003	2					2						2					3														X		2.5 / 5 / 10
004	2					2						2					3														X		2.5 / 5 / 10
005	2					2						2					3														X		2.5 / 5 / 10
006																	2																2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

9/30/20 SKW

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:_____ Headspace in VOA Vials (>6mm) : ☐Yes ☐No ☐N/A ***If yes look in headspace column**

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 26Mar2020
	Document No.: **ENV-FRM-GBAY-0014-Rev.00**	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Foth

Project #: **WO# : 40215637**

40215637

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☒ Client ☐ Pace Other: _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used SR - 97 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 3 /Corr: 3

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 9-30-20 /Initials: SKW

Labeled By Initials: MP

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☑Yes ☐No ☐N/A	12.
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 449		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-65202-1
Client Project/Site: PFAS, Fincantieri Marinette Marine
19M106.20

For:
Foth Infrastructure & Environment, LLC
2121 Innovation Court
Suite 300
De Pere, Wisconsin 54115

Attn: Rick Panosh

Sandra Fredrick

Authorized for release by:
10/8/2020 5:05:00 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

Table of Contents

Definitions/Glossary

Client: Foth Infrastructure & Environment, LLC
Job ID: 320-65202-1
Project/Site: PFAS, Fincantieri Marinette Marine 19M106.20

Qualifiers

LCMS

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
*	Isotope Dilution analyte is outside acceptance limits.
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 320-65202-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative
320-65202-1

Comments
No additional comments.

Receipt
The samples were received on 10/1/2020 9:40 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8º C.

Receipt Exceptions
Samples 1-3 have sample discoloration. GP-1W (320-65202-1), GP-3W (320-65202-2), GP-6W (320-65202-3), GP-4W (320-65202-4), GP-4W-D (320-65202-5) and GP-W-ER (320-65202-6)

LCMS
Method 537 (modified): Results for samples GP-1W (320-65202-1) and GP-3W (320-65202-2) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for M2-6:2 FTS and M2-8:2 FTS the following sample: GP-4W (320-65202-4). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): Several Isotope Dilution Analyte (IDA) recovery are above the method recommended limit for the following sample: GP-4W-D (320-65202-5). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): Results for samples GP-4W (320-65202-4) and GP-4W-D (320-65202-5) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

Method 537 (modified): Results for samples GP-1W (320-65202-1), GP-3W (320-65202-2) and GP-6W (320-65202-3) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

Method 537 (modified): The laboratory control sample (LCS) for preparation batch 320-417940 and analytical batch 320-418237 recovered outside control limits for the following analytes: Perfluorododecanoic acid (PFDoA). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 537 (modified): The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 320-417940 and analytical batch 320-418237 recovered outside control limits for the following analytes: Perfluorododecanoic acid (PFDoA).

Method 537 (modified): Results for samples GP-6W (320-65202-3) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for M2-6:2 FTS the following sample: GP-6W (320-65202-3). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): Results for samples GP-1W (320-65202-1) and GP-3W (320-65202-2) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

Job ID: 320-65202-1 (Continued)

Laboratory: Eurofins TestAmerica, Sacramento (Continued)

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for M2-6:2 FTS the following samples: GP-1W (320-65202-1) and GP-3W (320-65202-2). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): Results for sample GP-6W (320-65202-3) were reported from the analysis of a diluted extract due to the sample matrix affecting the quantitation of the Isotope Dilution Analyte (IDA) in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-417924. 3535 PFC Water 320-417924

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with: preparation batch 320-417940. 320-417940 Method: 3535 PFC-W

Method 3535: The following samples were yellow prior to extraction: GP-3W (320-65202-2) and GP-6W (320-65202-3). 320-417940 Method: 3535 PFC-W

Method 3535: The following sample was brown prior to extraction: GP-1W (320-65202-1). 320-417940 Method: 3535 PFC-W

Method 3535: The following samples contained a thin layer of sediment at the bottom of the container prior to extraction: GP-1W (320-65202-1) and GP-3W (320-65202-2). 320-417940 Method: 3535 PFC-W

Method 3535: The following sample contained a particulates in the container prior to extraction: GP-6W (320-65202-3). 320-417940 Method: 3535 PFC-W

Method 3535: The following samples are light yellow after extraction/final volume: GP-1W (320-65202-1), GP-3W (320-65202-2) and GP-6W (320-65202-3). 320-417940 Method: 3535 PFC-W

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 320-65202-1
Project/Site: PFAS, Fincantieri Marinette Marine 19M106.20

Client Sample ID: GP-1W
Lab Sample ID: 320-65202-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	93		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	190		1.8	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	200		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	140		1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	14		1.8	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.7	J	1.8	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	7.1		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	9.0		1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	150		1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	4.3		1.8	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	90		1.8	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	31		1.8	0.89	ng/L	1		537 (modified)	Total/NA
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.6	J	4.6	1.1	ng/L	1		537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	6.0		4.6	1.2	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	500		180	78	ng/L	100		537 (modified)	Total/NA
6:2 FTS - DL	380	J	460	230	ng/L	100		537 (modified)	Total/NA

Client Sample ID: GP-3W
Lab Sample ID: 320-65202-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	160		4.4	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	200		1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	300		1.8	0.75	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	8.3		1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	7.1		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	7.9		1.8	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	150		1.8	0.50	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	3.2		1.8	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	54		1.8	0.48	ng/L	1		537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	11		4.4	1.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	620		180	43	ng/L	100		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	520		180	51	ng/L	100		537 (modified)	Total/NA
6:2 FTS - DL	440		440	220	ng/L	100		537 (modified)	Total/NA

Client Sample ID: GP-6W
Lab Sample ID: 320-65202-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	95		4.4	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	260		1.7	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	250		1.7	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	130		1.7	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	110		1.7	0.74	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	21		1.7	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.62	J	1.7	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	6.2		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.2	J	1.7	0.26	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: GP-6W (Continued) — Lab Sample ID: 320-65202-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	28		1.7	0.50	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	2.6		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	44		1.7	0.47	ng/L	1		537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.9	J	4.4	1.1	ng/L	1		537 (modified)	Total/NA
4:2 FTS - DL	2.2	J	8.7	1.0	ng/L	5		537 (modified)	Total/NA
6:2 FTS - DL	98		22	11	ng/L	5		537 (modified)	Total/NA
8:2 FTS - DL	20		8.7	2.0	ng/L	5		537 (modified)	Total/NA

Client Sample ID: GP-4W — Lab Sample ID: 320-65202-4

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	320		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	220		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	100		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	53		1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	38		1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	3.2		1.9	1.0	ng/L	1		537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	1.9		1.9	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.0		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	2.6		1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	89		1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	4.7		1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	1.5	J	1.9	0.91	ng/L	1		537 (modified)	Total/NA
6:2 FTS	6.6		4.6	2.3	ng/L	1		537 (modified)	Total/NA
8:2 FTS	0.90	J	1.9	0.43	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	1100		19	4.6	ng/L	10		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	810		19	5.4	ng/L	10		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	390		19	5.0	ng/L	10		537 (modified)	Total/NA

Client Sample ID: GP-4W-D — Lab Sample ID: 320-65202-5

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	330		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	220		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	110		1.9	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	54		1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	36		1.9	0.30	ng/L	1		537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	3.1		1.9	1.0	ng/L	1		537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	2.0		1.9	0.52	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.2		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	3.2		1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	93		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	4.5		1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	1.4	J	1.9	0.93	ng/L	1		537 (modified)	Total/NA
6:2 FTS	6.1		4.8	2.4	ng/L	1		537 (modified)	Total/NA
8:2 FTS	0.96	J	1.9	0.44	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	1100		19	4.7	ng/L	10		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: GP-4W-D (Continued)
Lab Sample ID: 320-65202-5

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA) - DL	820		19	5.5	ng/L	10		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	380		19	5.1	ng/L	10		537 (modified)	Total/NA

Client Sample ID: GP-W-ER
Lab Sample ID: 320-65202-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: GP-1W
Date Collected: 09/29/20 12:25
Date Received: 10/01/20 09:40

Lab Sample ID: 320-65202-1
Matrix: Ground Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**93**		4.6	2.2	ng/L		10/02/20 04:37	10/02/20 21:28	1
Perfluoropentanoic acid (PFPeA)	**190**		1.8	0.45	ng/L		10/02/20 04:37	10/02/20 21:28	1
Perfluorohexanoic acid (PFHxA)	**200**		1.8	0.53	ng/L		10/02/20 04:37	10/02/20 21:28	1
Perfluoroheptanoic acid (PFHpA)	**140**		1.8	0.23	ng/L		10/02/20 04:37	10/02/20 21:28	1
Perfluorononanoic acid (PFNA)	**14**		1.8	0.25	ng/L		10/02/20 04:37	10/02/20 21:28	1
Perfluorodecanoic acid (PFDA)	**1.7**	**J**	1.8	0.28	ng/L		10/02/20 04:37	10/02/20 21:28	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		10/02/20 04:37	10/02/20 21:28	1
Perfluorododecanoic acid (PFDoA)	<0.50	*	1.8	0.50	ng/L		10/02/20 04:37	10/02/20 21:28	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.8	1.2	ng/L		10/02/20 04:37	10/02/20 21:28	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		10/02/20 04:37	10/02/20 21:28	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.81		1.8	0.81	ng/L		10/02/20 04:37	10/02/20 21:28	1
Perfluorobutanesulfonic acid (PFBS)	**7.1**		1.8	0.18	ng/L		10/02/20 04:37	10/02/20 21:28	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.86		1.8	0.86	ng/L		10/02/20 04:37	10/02/20 21:28	1
Perfluoropentanesulfonic acid (PFPeS)	**9.0**		1.8	0.27	ng/L		10/02/20 04:37	10/02/20 21:28	1
Perfluorohexanesulfonic acid (PFHxS)	**150**		1.8	0.52	ng/L		10/02/20 04:37	10/02/20 21:28	1
Perfluoroheptanesulfonic Acid (PFHpS)	**4.3**		1.8	0.17	ng/L		10/02/20 04:37	10/02/20 21:28	1
Perfluorooctanesulfonic acid (PFOS)	**90**		1.8	0.49	ng/L		10/02/20 04:37	10/02/20 21:28	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		10/02/20 04:37	10/02/20 21:28	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		10/02/20 04:37	10/02/20 21:28	1
Perfluorooctanesulfonamide (FOSA)	**31**		1.8	0.89	ng/L		10/02/20 04:37	10/02/20 21:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	**2.6**	**J**	4.6	1.1	ng/L		10/02/20 04:37	10/02/20 21:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**6.0**		4.6	1.2	ng/L		10/02/20 04:37	10/02/20 21:28	1
NEtFOSA	<0.79		1.8	0.79	ng/L		10/02/20 04:37	10/02/20 21:28	1
NMeFOSA	<0.39		1.8	0.39	ng/L		10/02/20 04:37	10/02/20 21:28	1
NMeFOSE	<1.3		3.6	1.3	ng/L		10/02/20 04:37	10/02/20 21:28	1
NEtFOSE	<0.78		1.8	0.78	ng/L		10/02/20 04:37	10/02/20 21:28	1
Perfluorododecanesulfonic acid (PFDoS)	<0.88		1.8	0.88	ng/L		10/02/20 04:37	10/02/20 21:28	1
F-53B Major	<0.22		1.8	0.22	ng/L		10/02/20 04:37	10/02/20 21:28	1
HFPO-DA (GenX)	<1.4		3.6	1.4	ng/L		10/02/20 04:37	10/02/20 21:28	1
F-53B Minor	<0.29		1.8	0.29	ng/L		10/02/20 04:37	10/02/20 21:28	1
DONA	<0.36		1.8	0.36	ng/L		10/02/20 04:37	10/02/20 21:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*29*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:28*	*1*
13C5 PFPeA	*69*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:28*	*1*
13C2 PFHxA	*80*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:28*	*1*
13C4 PFHpA	*96*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:28*	*1*
13C5 PFNA	*103*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:28*	*1*
13C2 PFDA	*95*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:28*	*1*
13C2 PFUnA	*110*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:28*	*1*
13C2 PFDoA	*111*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:28*	*1*
13C2 PFTeDA	*74*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:28*	*1*

Client: Foth Infrastructure & Environment, LLC
Job ID: 320-65202-1
Project/Site: PFAS, Fincantieri Marinette Marine 19M106.20

Client Sample ID: GP-1W
Date Collected: 09/29/20 12:25
Date Received: 10/01/20 09:40

Lab Sample ID: 320-65202-1
Matrix: Ground Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	136		25 - 150	10/02/20 04:37	10/02/20 21:28	1
18O2 PFHxS	143		25 - 150	10/02/20 04:37	10/02/20 21:28	1
13C4 PFOS	148		25 - 150	10/02/20 04:37	10/02/20 21:28	1
13C8 FOSA	97		25 - 150	10/02/20 04:37	10/02/20 21:28	1
d3-NMeFOSAA	97		25 - 150	10/02/20 04:37	10/02/20 21:28	1
d5-NEtFOSAA	122		25 - 150	10/02/20 04:37	10/02/20 21:28	1
d9-N-EtFOSE-M	63		10 - 120	10/02/20 04:37	10/02/20 21:28	1
d-N-MeFOSA-M	68		20 - 150	10/02/20 04:37	10/02/20 21:28	1
d7-N-MeFOSE-M	66		10 - 120	10/02/20 04:37	10/02/20 21:28	1
d-N-EtFOSA-M	65		20 - 150	10/02/20 04:37	10/02/20 21:28	1
13C2 PFHxDA	80		25 - 150	10/02/20 04:37	10/02/20 21:28	1
13C3 HFPO-DA	111		25 - 150	10/02/20 04:37	10/02/20 21:28	1

Method: 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	**500**		180	78	ng/L		10/02/20 04:37	10/07/20 11:36	100
4:2 FTS	<22		180	22	ng/L		10/02/20 04:37	10/07/20 11:36	100
6:2 FTS	**380**	**J**	460	230	ng/L		10/02/20 04:37	10/07/20 11:36	100
8:2 FTS	<42		180	42	ng/L		10/02/20 04:37	10/07/20 11:36	100
10:2 FTS	<61		180	61	ng/L		10/02/20 04:37	10/07/20 11:36	100

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	92		25 - 150	10/02/20 04:37	10/07/20 11:36	100
M2-6:2 FTS	159	*	25 - 150	10/02/20 04:37	10/07/20 11:36	100
M2-8:2 FTS	104		25 - 150	10/02/20 04:37	10/07/20 11:36	100
M2-4:2 FTS	118		25 - 150	10/02/20 04:37	10/07/20 11:36	100

Client: Foth Infrastructure & Environment, LLC
Job ID: 320-65202-1
Project/Site: PFAS, Fincantieri Marinette Marine 19M106.20

Client Sample ID: GP-3W
Date Collected: 09/29/20 14:25
Date Received: 10/01/20 09:40

Lab Sample ID: 320-65202-2
Matrix: Ground Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**160**		4.4	2.1	ng/L		10/02/20 04:37	10/02/20 21:38	1
Perfluoroheptanoic acid (PFHpA)	**200**		1.8	0.22	ng/L		10/02/20 04:37	10/02/20 21:38	1
Perfluorooctanoic acid (PFOA)	**300**		1.8	0.75	ng/L		10/02/20 04:37	10/02/20 21:38	1
Perfluorononanoic acid (PFNA)	**8.3**		1.8	0.24	ng/L		10/02/20 04:37	10/02/20 21:38	1
Perfluorodecanoic acid (PFDA)	<0.27		1.8	0.27	ng/L		10/02/20 04:37	10/02/20 21:38	1
Perfluoroundecanoic acid (PFUnA)	<0.97		1.8	0.97	ng/L		10/02/20 04:37	10/02/20 21:38	1
Perfluorododecanoic acid (PFDoA)	<0.48	*	1.8	0.48	ng/L		10/02/20 04:37	10/02/20 21:38	1
Perfluorotridecanoic acid (PFTriA)	<1.1		1.8	1.1	ng/L		10/02/20 04:37	10/02/20 21:38	1
Perfluorotetradecanoic acid (PFTeA)	<0.64		1.8	0.64	ng/L		10/02/20 04:37	10/02/20 21:38	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.78		1.8	0.78	ng/L		10/02/20 04:37	10/02/20 21:38	1
Perfluorobutanesulfonic acid (PFBS)	**7.1**		1.8	0.18	ng/L		10/02/20 04:37	10/02/20 21:38	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.83		1.8	0.83	ng/L		10/02/20 04:37	10/02/20 21:38	1
Perfluoropentanesulfonic acid (PFPeS)	**7.9**		1.8	0.26	ng/L		10/02/20 04:37	10/02/20 21:38	1
Perfluorohexanesulfonic acid (PFHxS)	**150**		1.8	0.50	ng/L		10/02/20 04:37	10/02/20 21:38	1
Perfluoroheptanesulfonic Acid (PFHpS)	**3.2**		1.8	0.17	ng/L		10/02/20 04:37	10/02/20 21:38	1
Perfluorooctanesulfonic acid (PFOS)	**54**		1.8	0.48	ng/L		10/02/20 04:37	10/02/20 21:38	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		10/02/20 04:37	10/02/20 21:38	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		10/02/20 04:37	10/02/20 21:38	1
Perfluorooctanesulfonamide (FOSA)	<0.86		1.8	0.86	ng/L		10/02/20 04:37	10/02/20 21:38	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.4	1.1	ng/L		10/02/20 04:37	10/02/20 21:38	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**11**		4.4	1.1	ng/L		10/02/20 04:37	10/02/20 21:38	1
NEtFOSA	<0.77		1.8	0.77	ng/L		10/02/20 04:37	10/02/20 21:38	1
NMeFOSA	<0.38		1.8	0.38	ng/L		10/02/20 04:37	10/02/20 21:38	1
NMeFOSE	<1.2		3.5	1.2	ng/L		10/02/20 04:37	10/02/20 21:38	1
NEtFOSE	<0.75		1.8	0.75	ng/L		10/02/20 04:37	10/02/20 21:38	1
Perfluorododecanesulfonic acid (PFDoS)	<0.85		1.8	0.85	ng/L		10/02/20 04:37	10/02/20 21:38	1
F-53B Major	<0.21		1.8	0.21	ng/L		10/02/20 04:37	10/02/20 21:38	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		10/02/20 04:37	10/02/20 21:38	1
F-53B Minor	<0.28		1.8	0.28	ng/L		10/02/20 04:37	10/02/20 21:38	1
DONA	<0.35		1.8	0.35	ng/L		10/02/20 04:37	10/02/20 21:38	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*30*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:38*	*1*
13C4 PFHpA	*89*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:38*	*1*
13C4 PFOA	*84*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:38*	*1*
13C5 PFNA	*104*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:38*	*1*
13C2 PFDA	*106*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:38*	*1*
13C2 PFUnA	*122*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:38*	*1*
13C2 PFDoA	*104*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:38*	*1*
13C2 PFTeDA	*109*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:38*	*1*
13C3 PFBS	*130*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:38*	*1*
18O2 PFHxS	*134*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:38*	*1*
13C4 PFOS	*139*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:38*	*1*

Client Sample ID: GP-3W
Date Collected: 09/29/20 14:25
Date Received: 10/01/20 09:40

Lab Sample ID: 320-65202-2
Matrix: Ground Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	92		25 - 150	10/02/20 04:37	10/02/20 21:38	1
d3-NMeFOSAA	86		25 - 150	10/02/20 04:37	10/02/20 21:38	1
d5-NEtFOSAA	113		25 - 150	10/02/20 04:37	10/02/20 21:38	1
d9-N-EtFOSE-M	60		10 - 120	10/02/20 04:37	10/02/20 21:38	1
d-N-MeFOSA-M	57		20 - 150	10/02/20 04:37	10/02/20 21:38	1
d7-N-MeFOSE-M	61		10 - 120	10/02/20 04:37	10/02/20 21:38	1
d-N-EtFOSA-M	63		20 - 150	10/02/20 04:37	10/02/20 21:38	1
13C2 PFHxDA	91		25 - 150	10/02/20 04:37	10/02/20 21:38	1
13C3 HFPO-DA	99		25 - 150	10/02/20 04:37	10/02/20 21:38	1

Method: 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	**620**		180	43	ng/L		10/02/20 04:37	10/07/20 11:45	100
Perfluorohexanoic acid (PFHxA)	**520**		180	51	ng/L		10/02/20 04:37	10/07/20 11:45	100
4:2 FTS	<21		180	21	ng/L		10/02/20 04:37	10/07/20 11:45	100
6:2 FTS	**440**		440	220	ng/L		10/02/20 04:37	10/07/20 11:45	100
8:2 FTS	<41		180	41	ng/L		10/02/20 04:37	10/07/20 11:45	100
10:2 FTS	<59		180	59	ng/L		10/02/20 04:37	10/07/20 11:45	100

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	84		25 - 150	10/02/20 04:37	10/07/20 11:45	100
13C2 PFHxA	85		25 - 150	10/02/20 04:37	10/07/20 11:45	100
M2-6:2 FTS	167	*	25 - 150	10/02/20 04:37	10/07/20 11:45	100
M2-8:2 FTS	94		25 - 150	10/02/20 04:37	10/07/20 11:45	100
M2-4:2 FTS	107		25 - 150	10/02/20 04:37	10/07/20 11:45	100

Client: Foth Infrastructure & Environment, LLC
Job ID: 320-65202-1
Project/Site: PFAS, Fincantieri Marinette Marine 19M106.20

Client Sample ID: GP-6W
Date Collected: 09/29/20 10:45
Date Received: 10/01/20 09:40

Lab Sample ID: 320-65202-3
Matrix: Ground Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**95**		4.4	2.1	ng/L		10/02/20 04:37	10/02/20 21:47	1
Perfluoropentanoic acid (PFPeA)	**260**		1.7	0.43	ng/L		10/02/20 04:37	10/02/20 21:47	1
Perfluorohexanoic acid (PFHxA)	**250**		1.7	0.51	ng/L		10/02/20 04:37	10/02/20 21:47	1
Perfluoroheptanoic acid (PFHpA)	**130**		1.7	0.22	ng/L		10/02/20 04:37	10/02/20 21:47	1
Perfluorooctanoic acid (PFOA)	**110**		1.7	0.74	ng/L		10/02/20 04:37	10/02/20 21:47	1
Perfluorononanoic acid (PFNA)	**21**		1.7	0.24	ng/L		10/02/20 04:37	10/02/20 21:47	1
Perfluorodecanoic acid (PFDA)	**0.62**	**J**	1.7	0.27	ng/L		10/02/20 04:37	10/02/20 21:47	1
Perfluoroundecanoic acid (PFUnA)	<0.96		1.7	0.96	ng/L		10/02/20 04:37	10/02/20 21:47	1
Perfluorododecanoic acid (PFDoA)	<0.48	*	1.7	0.48	ng/L		10/02/20 04:37	10/02/20 21:47	1
Perfluorotridecanoic acid (PFTriA)	<1.1		1.7	1.1	ng/L		10/02/20 04:37	10/02/20 21:47	1
Perfluorotetradecanoic acid (PFTeA)	<0.64		1.7	0.64	ng/L		10/02/20 04:37	10/02/20 21:47	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.78		1.7	0.78	ng/L		10/02/20 04:37	10/02/20 21:47	1
Perfluorobutanesulfonic acid (PFBS)	**6.2**		1.7	0.17	ng/L		10/02/20 04:37	10/02/20 21:47	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.82		1.7	0.82	ng/L		10/02/20 04:37	10/02/20 21:47	1
Perfluoropentanesulfonic acid (PFPeS)	**1.2**	**J**	1.7	0.26	ng/L		10/02/20 04:37	10/02/20 21:47	1
Perfluorohexanesulfonic acid (PFHxS)	**28**		1.7	0.50	ng/L		10/02/20 04:37	10/02/20 21:47	1
Perfluoroheptanesulfonic Acid (PFHpS)	**2.6**		1.7	0.17	ng/L		10/02/20 04:37	10/02/20 21:47	1
Perfluorooctanesulfonic acid (PFOS)	**44**		1.7	0.47	ng/L		10/02/20 04:37	10/02/20 21:47	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		10/02/20 04:37	10/02/20 21:47	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		10/02/20 04:37	10/02/20 21:47	1
Perfluorooctanesulfonamide (FOSA)	<0.86		1.7	0.86	ng/L		10/02/20 04:37	10/02/20 21:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.0		4.4	1.0	ng/L		10/02/20 04:37	10/02/20 21:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**2.9**	**J**	4.4	1.1	ng/L		10/02/20 04:37	10/02/20 21:47	1
NEtFOSA	<0.76		1.7	0.76	ng/L		10/02/20 04:37	10/02/20 21:47	1
NMeFOSA	<0.38		1.7	0.38	ng/L		10/02/20 04:37	10/02/20 21:47	1
NMeFOSE	<1.2		3.5	1.2	ng/L		10/02/20 04:37	10/02/20 21:47	1
NEtFOSE	<0.74		1.7	0.74	ng/L		10/02/20 04:37	10/02/20 21:47	1
Perfluorododecanesulfonic acid (PFDoS)	<0.85		1.7	0.85	ng/L		10/02/20 04:37	10/02/20 21:47	1
F-53B Major	<0.21		1.7	0.21	ng/L		10/02/20 04:37	10/02/20 21:47	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		10/02/20 04:37	10/02/20 21:47	1
F-53B Minor	<0.28		1.7	0.28	ng/L		10/02/20 04:37	10/02/20 21:47	1
DONA	<0.35		1.7	0.35	ng/L		10/02/20 04:37	10/02/20 21:47	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*29*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:47*	*1*
13C5 PFPeA	*62*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:47*	*1*
13C2 PFHxA	*72*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:47*	*1*
13C4 PFHpA	*90*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:47*	*1*
13C4 PFOA	*95*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:47*	*1*
13C5 PFNA	*115*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:47*	*1*
13C2 PFDA	*102*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:47*	*1*
13C2 PFUnA	*126*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:47*	*1*
13C2 PFDoA	*118*		*25 - 150*	*10/02/20 04:37*	*10/02/20 21:47*	*1*

Client: Foth Infrastructure & Environment, LLC
Job ID: 320-65202-1
Project/Site: PFAS, Fincantieri Marinette Marine 19M106.20

Client Sample ID: GP-6W
Lab Sample ID: 320-65202-3
Date Collected: 09/29/20 10:45
Matrix: Ground Water
Date Received: 10/01/20 09:40

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	111		25 - 150	10/02/20 04:37	10/02/20 21:47	1
13C3 PFBS	116		25 - 150	10/02/20 04:37	10/02/20 21:47	1
18O2 PFHxS	121		25 - 150	10/02/20 04:37	10/02/20 21:47	1
13C4 PFOS	128		25 - 150	10/02/20 04:37	10/02/20 21:47	1
13C8 FOSA	101		25 - 150	10/02/20 04:37	10/02/20 21:47	1
d3-NMeFOSAA	116		25 - 150	10/02/20 04:37	10/02/20 21:47	1
d5-NEtFOSAA	131		25 - 150	10/02/20 04:37	10/02/20 21:47	1
d9-N-EtFOSE-M	49		10 - 120	10/02/20 04:37	10/02/20 21:47	1
d-N-MeFOSA-M	70		20 - 150	10/02/20 04:37	10/02/20 21:47	1
d7-N-MeFOSE-M	53		10 - 120	10/02/20 04:37	10/02/20 21:47	1
d-N-EtFOSA-M	60		20 - 150	10/02/20 04:37	10/02/20 21:47	1
13C2 PFHxDA	98		25 - 150	10/02/20 04:37	10/02/20 21:47	1
13C3 HFPO-DA	96		25 - 150	10/02/20 04:37	10/02/20 21:47	1

Method: 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
4:2 FTS	**2.2**	**J**	8.7	1.0	ng/L		10/02/20 04:37	10/05/20 17:02	5
6:2 FTS	**98**		22	11	ng/L		10/02/20 04:37	10/05/20 17:02	5
8:2 FTS	**20**		8.7	2.0	ng/L		10/02/20 04:37	10/05/20 17:02	5
10:2 FTS	<2.9		8.7	2.9	ng/L		10/02/20 04:37	10/05/20 17:02	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	238	*	25 - 150	10/02/20 04:37	10/05/20 17:02	5
M2-8:2 FTS	172	*	25 - 150	10/02/20 04:37	10/05/20 17:02	5
M2-4:2 FTS	156	*	25 - 150	10/02/20 04:37	10/05/20 17:02	5

Client: Foth Infrastructure & Environment, LLC
Job ID: 320-65202-1
Project/Site: PFAS, Fincantieri Marinette Marine 19M106.20

Client Sample ID: GP-4W
Date Collected: 09/29/20 08:55
Date Received: 10/01/20 09:40

Lab Sample ID: 320-65202-4
Matrix: Ground Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**320**		4.6	2.2	ng/L		10/01/20 19:20	10/02/20 09:58	1
Perfluoroheptanoic acid (PFHpA)	**220**		1.9	0.23	ng/L		10/01/20 19:20	10/02/20 09:58	1
Perfluorooctanoic acid (PFOA)	**100**		1.9	0.79	ng/L		10/01/20 19:20	10/02/20 09:58	1
Perfluorononanoic acid (PFNA)	**53**		1.9	0.25	ng/L		10/01/20 19:20	10/02/20 09:58	1
Perfluorodecanoic acid (PFDA)	**38**		1.9	0.29	ng/L		10/01/20 19:20	10/02/20 09:58	1
Perfluoroundecanoic acid (PFUnA)	**3.2**		1.9	1.0	ng/L		10/01/20 19:20	10/02/20 09:58	1
Perfluorododecanoic acid (PFDoA)	**1.9**		1.9	0.51	ng/L		10/01/20 19:20	10/02/20 09:58	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/01/20 19:20	10/02/20 09:58	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		10/01/20 19:20	10/02/20 09:58	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.83		1.9	0.83	ng/L		10/01/20 19:20	10/02/20 09:58	1
Perfluorobutanesulfonic acid (PFBS)	**4.0**		1.9	0.19	ng/L		10/01/20 19:20	10/02/20 09:58	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.87		1.9	0.87	ng/L		10/01/20 19:20	10/02/20 09:58	1
Perfluoropentanesulfonic acid (PFPeS)	**2.6**		1.9	0.28	ng/L		10/01/20 19:20	10/02/20 09:58	1
Perfluorohexanesulfonic acid (PFHxS)	**89**		1.9	0.53	ng/L		10/01/20 19:20	10/02/20 09:58	1
Perfluoroheptanesulfonic Acid (PFHpS)	**4.7**		1.9	0.18	ng/L		10/01/20 19:20	10/02/20 09:58	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		10/01/20 19:20	10/02/20 09:58	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/01/20 19:20	10/02/20 09:58	1
Perfluorooctanesulfonamide (FOSA)	**1.5**	**J**	1.9	0.91	ng/L		10/01/20 19:20	10/02/20 09:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.6	1.1	ng/L		10/01/20 19:20	10/02/20 09:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.6	1.2	ng/L		10/01/20 19:20	10/02/20 09:58	1
4:2 FTS	<0.22		1.9	0.22	ng/L		10/01/20 19:20	10/02/20 09:58	1
6:2 FTS	**6.6**		4.6	2.3	ng/L		10/01/20 19:20	10/02/20 09:58	1
8:2 FTS	**0.90**	**J**	1.9	0.43	ng/L		10/01/20 19:20	10/02/20 09:58	1
NEtFOSA	<0.81		1.9	0.81	ng/L		10/01/20 19:20	10/02/20 09:58	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/01/20 19:20	10/02/20 09:58	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/01/20 19:20	10/02/20 09:58	1
NEtFOSE	<0.79		1.9	0.79	ng/L		10/01/20 19:20	10/02/20 09:58	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		10/01/20 19:20	10/02/20 09:58	1
F-53B Major	<0.22		1.9	0.22	ng/L		10/01/20 19:20	10/02/20 09:58	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/01/20 19:20	10/02/20 09:58	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/01/20 19:20	10/02/20 09:58	1
10:2 FTS	<0.62		1.9	0.62	ng/L		10/01/20 19:20	10/02/20 09:58	1
DONA	<0.37		1.9	0.37	ng/L		10/01/20 19:20	10/02/20 09:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*60*		*25 - 150*	*10/01/20 19:20*	*10/02/20 09:58*	*1*
13C4 PFHpA	*95*		*25 - 150*	*10/01/20 19:20*	*10/02/20 09:58*	*1*
13C4 PFOA	*90*		*25 - 150*	*10/01/20 19:20*	*10/02/20 09:58*	*1*
13C5 PFNA	*91*		*25 - 150*	*10/01/20 19:20*	*10/02/20 09:58*	*1*
13C2 PFDA	*92*		*25 - 150*	*10/01/20 19:20*	*10/02/20 09:58*	*1*
13C2 PFUnA	*85*		*25 - 150*	*10/01/20 19:20*	*10/02/20 09:58*	*1*

Client: Foth Infrastructure & Environment, LLC
Job ID: 320-65202-1
Project/Site: PFAS, Fincantieri Marinette Marine 19M106.20

Client Sample ID: GP-4W
Date Collected: 09/29/20 08:55
Date Received: 10/01/20 09:40

Lab Sample ID: 320-65202-4
Matrix: Ground Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	82		25 - 150	10/01/20 19:20	10/02/20 09:58	1
13C2 PFTeDA	71		25 - 150	10/01/20 19:20	10/02/20 09:58	1
13C3 PFBS	81		25 - 150	10/01/20 19:20	10/02/20 09:58	1
18O2 PFHxS	87		25 - 150	10/01/20 19:20	10/02/20 09:58	1
13C8 FOSA	86		25 - 150	10/01/20 19:20	10/02/20 09:58	1
d3-NMeFOSAA	89		25 - 150	10/01/20 19:20	10/02/20 09:58	1
d5-NEtFOSAA	89		25 - 150	10/01/20 19:20	10/02/20 09:58	1
M2-6:2 FTS	157	*	25 - 150	10/01/20 19:20	10/02/20 09:58	1
M2-8:2 FTS	162	*	25 - 150	10/01/20 19:20	10/02/20 09:58	1
M2-4:2 FTS	136		25 - 150	10/01/20 19:20	10/02/20 09:58	1
d9-N-EtFOSE-M	35		10 - 120	10/01/20 19:20	10/02/20 09:58	1
d-N-MeFOSA-M	40		20 - 150	10/01/20 19:20	10/02/20 09:58	1
d7-N-MeFOSE-M	37		10 - 120	10/01/20 19:20	10/02/20 09:58	1
d-N-EtFOSA-M	32		20 - 150	10/01/20 19:20	10/02/20 09:58	1
13C2 PFHxDA	53		25 - 150	10/01/20 19:20	10/02/20 09:58	1
13C3 HFPO-DA	92		25 - 150	10/01/20 19:20	10/02/20 09:58	1

Method: 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	1100		19	4.6	ng/L		10/01/20 19:20	10/04/20 13:08	10
Perfluorohexanoic acid (PFHxA)	810		19	5.4	ng/L		10/01/20 19:20	10/04/20 13:08	10
Perfluorooctanesulfonic acid (PFOS)	390		19	5.0	ng/L		10/01/20 19:20	10/04/20 13:08	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	89		25 - 150	10/01/20 19:20	10/04/20 13:08	10
13C2 PFHxA	90		25 - 150	10/01/20 19:20	10/04/20 13:08	10
13C4 PFOS	90		25 - 150	10/01/20 19:20	10/04/20 13:08	10

Client: Foth Infrastructure & Environment, LLC
Job ID: 320-65202-1
Project/Site: PFAS, Fincantieri Marinette Marine 19M106.20

Client Sample ID: GP-4W-D
Date Collected: 09/29/20 08:55
Date Received: 10/01/20 09:40

Lab Sample ID: 320-65202-5
Matrix: Ground Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**330**		4.8	2.3	ng/L		10/01/20 19:20	10/02/20 10:07	1
Perfluoroheptanoic acid (PFHpA)	**220**		1.9	0.24	ng/L		10/01/20 19:20	10/02/20 10:07	1
Perfluorooctanoic acid (PFOA)	**110**		1.9	0.81	ng/L		10/01/20 19:20	10/02/20 10:07	1
Perfluorononanoic acid (PFNA)	**54**		1.9	0.26	ng/L		10/01/20 19:20	10/02/20 10:07	1
Perfluorodecanoic acid (PFDA)	**36**		1.9	0.30	ng/L		10/01/20 19:20	10/02/20 10:07	1
Perfluoroundecanoic acid (PFUnA)	**3.1**		1.9	1.0	ng/L		10/01/20 19:20	10/02/20 10:07	1
Perfluorododecanoic acid (PFDoA)	**2.0**		1.9	0.52	ng/L		10/01/20 19:20	10/02/20 10:07	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/01/20 19:20	10/02/20 10:07	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		10/01/20 19:20	10/02/20 10:07	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.85		1.9	0.85	ng/L		10/01/20 19:20	10/02/20 10:07	1
Perfluorobutanesulfonic acid (PFBS)	**4.2**		1.9	0.19	ng/L		10/01/20 19:20	10/02/20 10:07	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.90		1.9	0.90	ng/L		10/01/20 19:20	10/02/20 10:07	1
Perfluoropentanesulfonic acid (PFPeS)	**3.2**		1.9	0.29	ng/L		10/01/20 19:20	10/02/20 10:07	1
Perfluorohexanesulfonic acid (PFHxS)	**93**		1.9	0.54	ng/L		10/01/20 19:20	10/02/20 10:07	1
Perfluoroheptanesulfonic Acid (PFHpS)	**4.5**		1.9	0.18	ng/L		10/01/20 19:20	10/02/20 10:07	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/01/20 19:20	10/02/20 10:07	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/01/20 19:20	10/02/20 10:07	1
Perfluorooctanesulfonamide (FOSA)	**1.4**	**J**	1.9	0.93	ng/L		10/01/20 19:20	10/02/20 10:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.8	1.1	ng/L		10/01/20 19:20	10/02/20 10:07	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.8	1.2	ng/L		10/01/20 19:20	10/02/20 10:07	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/01/20 19:20	10/02/20 10:07	1
6:2 FTS	**6.1**		4.8	2.4	ng/L		10/01/20 19:20	10/02/20 10:07	1
8:2 FTS	**0.96**	**J**	1.9	0.44	ng/L		10/01/20 19:20	10/02/20 10:07	1
NEtFOSA	<0.83		1.9	0.83	ng/L		10/01/20 19:20	10/02/20 10:07	1
NMeFOSA	<0.41		1.9	0.41	ng/L		10/01/20 19:20	10/02/20 10:07	1
NMeFOSE	<1.3		3.8	1.3	ng/L		10/01/20 19:20	10/02/20 10:07	1
NEtFOSE	<0.81		1.9	0.81	ng/L		10/01/20 19:20	10/02/20 10:07	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		10/01/20 19:20	10/02/20 10:07	1
F-53B Major	<0.23		1.9	0.23	ng/L		10/01/20 19:20	10/02/20 10:07	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/01/20 19:20	10/02/20 10:07	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/01/20 19:20	10/02/20 10:07	1
10:2 FTS	<0.64		1.9	0.64	ng/L		10/01/20 19:20	10/02/20 10:07	1
DONA	<0.38		1.9	0.38	ng/L		10/01/20 19:20	10/02/20 10:07	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*68*		*25 - 150*	*10/01/20 19:20*	*10/02/20 10:07*	*1*
13C4 PFHpA	*108*		*25 - 150*	*10/01/20 19:20*	*10/02/20 10:07*	*1*
13C4 PFOA	*96*		*25 - 150*	*10/01/20 19:20*	*10/02/20 10:07*	*1*
13C5 PFNA	*101*		*25 - 150*	*10/01/20 19:20*	*10/02/20 10:07*	*1*
13C2 PFDA	*105*		*25 - 150*	*10/01/20 19:20*	*10/02/20 10:07*	*1*
13C2 PFUnA	*98*		*25 - 150*	*10/01/20 19:20*	*10/02/20 10:07*	*1*

Client Sample ID: GP-4W-D
Date Collected: 09/29/20 08:55
Date Received: 10/01/20 09:40

Lab Sample ID: 320-65202-5
Matrix: Ground Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	92		25 - 150	10/01/20 19:20	10/02/20 10:07	1
13C2 PFTeDA	79		25 - 150	10/01/20 19:20	10/02/20 10:07	1
13C3 PFBS	90		25 - 150	10/01/20 19:20	10/02/20 10:07	1
18O2 PFHxS	94		25 - 150	10/01/20 19:20	10/02/20 10:07	1
13C8 FOSA	99		25 - 150	10/01/20 19:20	10/02/20 10:07	1
d3-NMeFOSAA	93		25 - 150	10/01/20 19:20	10/02/20 10:07	1
d5-NEtFOSAA	95		25 - 150	10/01/20 19:20	10/02/20 10:07	1
M2-6:2 FTS	184	*	25 - 150	10/01/20 19:20	10/02/20 10:07	1
M2-8:2 FTS	171	*	25 - 150	10/01/20 19:20	10/02/20 10:07	1
M2-4:2 FTS	161	*	25 - 150	10/01/20 19:20	10/02/20 10:07	1
d9-N-EtFOSE-M	39		10 - 120	10/01/20 19:20	10/02/20 10:07	1
d-N-MeFOSA-M	49		20 - 150	10/01/20 19:20	10/02/20 10:07	1
d7-N-MeFOSE-M	37		10 - 120	10/01/20 19:20	10/02/20 10:07	1
d-N-EtFOSA-M	39		20 - 150	10/01/20 19:20	10/02/20 10:07	1
13C2 PFHxDA	66		25 - 150	10/01/20 19:20	10/02/20 10:07	1
13C3 HFPO-DA	107		25 - 150	10/01/20 19:20	10/02/20 10:07	1

Method: 537 (modified) - Fluorinated Alkyl Substances - DL

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	1100		19	4.7	ng/L		10/01/20 19:20	10/04/20 13:18	10
Perfluorohexanoic acid (PFHxA)	820		19	5.5	ng/L		10/01/20 19:20	10/04/20 13:18	10
Perfluorooctanesulfonic acid (PFOS)	380		19	5.1	ng/L		10/01/20 19:20	10/04/20 13:18	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFPeA	90		25 - 150	10/01/20 19:20	10/04/20 13:18	10
13C2 PFHxA	91		25 - 150	10/01/20 19:20	10/04/20 13:18	10
13C4 PFOS	91		25 - 150	10/01/20 19:20	10/04/20 13:18	10

Client: Foth Infrastructure & Environment, LLC
Job ID: 320-65202-1
Project/Site: PFAS, Fincantieri Marinette Marine 19M106.20

Client Sample ID: GP-W-ER
Date Collected: 09/29/20 15:05
Date Received: 10/01/20 09:40

Lab Sample ID: 320-65202-6
Matrix: Ground Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.7	2.2	ng/L		10/01/20 19:20	10/02/20 10:16	1
Perfluoropentanoic acid (PFPeA)	<0.46		1.9	0.46	ng/L		10/01/20 19:20	10/02/20 10:16	1
Perfluorohexanoic acid (PFHxA)	<0.54		1.9	0.54	ng/L		10/01/20 19:20	10/02/20 10:16	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.9	0.23	ng/L		10/01/20 19:20	10/02/20 10:16	1
Perfluorooctanoic acid (PFOA)	<0.79		1.9	0.79	ng/L		10/01/20 19:20	10/02/20 10:16	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		10/01/20 19:20	10/02/20 10:16	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/01/20 19:20	10/02/20 10:16	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/01/20 19:20	10/02/20 10:16	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		10/01/20 19:20	10/02/20 10:16	1
Perfluorotridecanoic acid (PFTriA)	<1.2		1.9	1.2	ng/L		10/01/20 19:20	10/02/20 10:16	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		10/01/20 19:20	10/02/20 10:16	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.83		1.9	0.83	ng/L		10/01/20 19:20	10/02/20 10:16	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/01/20 19:20	10/02/20 10:16	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.88		1.9	0.88	ng/L		10/01/20 19:20	10/02/20 10:16	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/01/20 19:20	10/02/20 10:16	1
Perfluorohexanesulfonic acid (PFHxS)	<0.53		1.9	0.53	ng/L		10/01/20 19:20	10/02/20 10:16	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/01/20 19:20	10/02/20 10:16	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.9	0.50	ng/L		10/01/20 19:20	10/02/20 10:16	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/01/20 19:20	10/02/20 10:16	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/01/20 19:20	10/02/20 10:16	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		10/01/20 19:20	10/02/20 10:16	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.1		4.7	1.1	ng/L		10/01/20 19:20	10/02/20 10:16	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.2		4.7	1.2	ng/L		10/01/20 19:20	10/02/20 10:16	1
4:2 FTS	<0.22		1.9	0.22	ng/L		10/01/20 19:20	10/02/20 10:16	1
6:2 FTS	<2.3		4.7	2.3	ng/L		10/01/20 19:20	10/02/20 10:16	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/01/20 19:20	10/02/20 10:16	1
NEtFOSA	<0.81		1.9	0.81	ng/L		10/01/20 19:20	10/02/20 10:16	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/01/20 19:20	10/02/20 10:16	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/01/20 19:20	10/02/20 10:16	1
NEtFOSE	<0.79		1.9	0.79	ng/L		10/01/20 19:20	10/02/20 10:16	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		10/01/20 19:20	10/02/20 10:16	1
F-53B Major	<0.22		1.9	0.22	ng/L		10/01/20 19:20	10/02/20 10:16	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/01/20 19:20	10/02/20 10:16	1
F-53B Minor	<0.30		1.9	0.30	ng/L		10/01/20 19:20	10/02/20 10:16	1
10:2 FTS	<0.62		1.9	0.62	ng/L		10/01/20 19:20	10/02/20 10:16	1
DONA	<0.37		1.9	0.37	ng/L		10/01/20 19:20	10/02/20 10:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*91*		*25 - 150*	*10/01/20 19:20*	*10/02/20 10:16*	*1*
13C5 PFPeA	*112*		*25 - 150*	*10/01/20 19:20*	*10/02/20 10:16*	*1*
13C2 PFHxA	*107*		*25 - 150*	*10/01/20 19:20*	*10/02/20 10:16*	*1*
13C4 PFHpA	*111*		*25 - 150*	*10/01/20 19:20*	*10/02/20 10:16*	*1*
13C4 PFOA	*106*		*25 - 150*	*10/01/20 19:20*	*10/02/20 10:16*	*1*
13C5 PFNA	*111*		*25 - 150*	*10/01/20 19:20*	*10/02/20 10:16*	*1*
13C2 PFDA	*110*		*25 - 150*	*10/01/20 19:20*	*10/02/20 10:16*	*1*

Client: Foth Infrastructure & Environment, LLC
Job ID: 320-65202-1
Project/Site: PFAS, Fincantieri Marinette Marine 19M106.20

Client Sample ID: GP-W-ER
Lab Sample ID: 320-65202-6
Date Collected: 09/29/20 15:05
Matrix: Ground Water
Date Received: 10/01/20 09:40

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	110		25 - 150	10/01/20 19:20	10/02/20 10:16	1
13C2 PFDoA	92		25 - 150	10/01/20 19:20	10/02/20 10:16	1
13C2 PFTeDA	102		25 - 150	10/01/20 19:20	10/02/20 10:16	1
13C3 PFBS	106		25 - 150	10/01/20 19:20	10/02/20 10:16	1
18O2 PFHxS	106		25 - 150	10/01/20 19:20	10/02/20 10:16	1
13C4 PFOS	102		25 - 150	10/01/20 19:20	10/02/20 10:16	1
13C8 FOSA	100		25 - 150	10/01/20 19:20	10/02/20 10:16	1
d3-NMeFOSAA	118		25 - 150	10/01/20 19:20	10/02/20 10:16	1
d5-NEtFOSAA	112		25 - 150	10/01/20 19:20	10/02/20 10:16	1
M2-6:2 FTS	143		25 - 150	10/01/20 19:20	10/02/20 10:16	1
M2-8:2 FTS	133		25 - 150	10/01/20 19:20	10/02/20 10:16	1
M2-4:2 FTS	139		25 - 150	10/01/20 19:20	10/02/20 10:16	1
d9-N-EtFOSE-M	55		10 - 120	10/01/20 19:20	10/02/20 10:16	1
d-N-MeFOSA-M	75		20 - 150	10/01/20 19:20	10/02/20 10:16	1
d7-N-MeFOSE-M	55		10 - 120	10/01/20 19:20	10/02/20 10:16	1
d-N-EtFOSA-M	69		20 - 150	10/01/20 19:20	10/02/20 10:16	1
13C2 PFHxDA	107		25 - 150	10/01/20 19:20	10/02/20 10:16	1
13C3 HFPO-DA	114		25 - 150	10/01/20 19:20	10/02/20 10:16	1

Isotope Dilution Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 320-65202-1
Project/Site: PFAS, Fincantieri Marinette Marine 19M106.20

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Ground Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA	PFHxA	C4PFHA	PFOA	PFNA	PFDA	PFUnA
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)
320-65202-1	GP-1W	29	69	80	96		103	95	110
320-65202-2	GP-3W	30			89	84	104	106	122
320-65202-3	GP-6W	29	62	72	90	95	115	102	126
320-65202-4 - DL	GP-4W		89	90					
320-65202-5 - DL	GP-4W-D		90	91					

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoA	PFTDA	C3PFBS	PFHxS	PFOS	PFOSA	d3NMFOS	d5NEFOS
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)
320-65202-1	GP-1W	111	74	136	143	148	97	97	122
320-65202-2	GP-3W	104	109	130	134	139	92	86	113
320-65202-3	GP-6W	118	111	116	121	128	101	116	131
320-65202-4 - DL	GP-4W					90			
320-65202-5 - DL	GP-4W-D					91			

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		NEFM	dMeFOSA	NMFM	dEtFOSA	PFHxDA	HFPODA		
Lab Sample ID	Client Sample ID	(10-120)	(20-150)	(10-120)	(20-150)	(25-150)	(25-150)		
320-65202-1	GP-1W	63	68	66	65	80	111		
320-65202-2	GP-3W	60	57	61	63	91	99		
320-65202-3	GP-6W	49	70	53	60	98	96		
320-65202-4 - DL	GP-4W								
320-65202-5 - DL	GP-4W-D								

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
NEFM = d9-N-EtFOSE-M
dMeFOSA = d-N-MeFOSA-M
NMFM = d7-N-MeFOSE-M
dEtFOSA = d-N-EtFOSA-M
PFHxDA = 13C2 PFHxDA
HFPODA = 13C3 HFPO-DA

Isotope Dilution Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 320-65202-1
Project/Site: PFAS, Fincantieri Marinette Marine 19M106.20

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Ground Water — **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFOA	M262FTS	M282FTS	M242FTS				
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)				
320-65202-1 - DL	GP-1W	92	159 *	104	118				

Surrogate Legend

PFOA = 13C4 PFOA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
M242FTS = M2-4:2 FTS

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Ground Water — **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFPeA	PFHxA	M262FTS	M282FTS	M242FTS			
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)			
320-65202-2 - DL	GP-3W	84	85	167 *	94	107			

Surrogate Legend

PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
M242FTS = M2-4:2 FTS

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Ground Water — **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M262FTS	M282FTS	M242FTS					
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)					
320-65202-3 - DL	GP-6W	238 *	172 *	156 *					

Surrogate Legend

M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
M242FTS = M2-4:2 FTS

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Ground Water — **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA	PFHxA	C4PFHA	PFOA	PFNA	PFDA	PFUnA
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)
320-65202-4	GP-4W	60			95	90	91	92	85
320-65202-5	GP-4W-D	68			108	96	101	105	98
320-65202-6	GP-W-ER	91	112	107	111	106	111	110	110

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoA	PFTDA	C3PFBS	PFHxS	PFOS	PFOSA	d3NMFOS	d5NEFOS
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)
320-65202-4	GP-4W	82	71	81	87		86	89	89
320-65202-5	GP-4W-D	92	79	90	94		99	93	95
320-65202-6	GP-W-ER	92	102	106	106	102	100	118	112

Isotope Dilution Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 320-65202-1
Project/Site: PFAS, Fincantieri Marinette Marine 19M106.20

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Ground Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)	M242FTS (25-150)	NEFM (10-120)	dMeFOSA (20-150)	NMFM (10-120)	dEtFOSA (20-150)	PFHxDA (25-150)
320-65202-4	GP-4W	157 *	162 *	136	35	40	37	32	53
320-65202-5	GP-4W-D	184 *	171 *	161 *	39	49	37	39	66
320-65202-6	GP-W-ER	143	133	139	55	75	55	69	107

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	HFPODA (25-150)
320-65202-4	GP-4W	92
320-65202-5	GP-4W-D	107
320-65202-6	GP-W-ER	114

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
M242FTS = M2-4:2 FTS
NEFM = d9-N-EtFOSE-M
dMeFOSA = d-N-MeFOSA-M
NMFM = d7-N-MeFOSE-M
dEtFOSA = d-N-EtFOSA-M
PFHxDA = 13C2 PFHxDA
HFPODA = 13C3 HFPO-DA

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
LCS 320-417924/2-A	Lab Control Sample	98	99	98	103	93	102	100	94
LCS 320-417940/2-A	Lab Control Sample	90	96	94	94	91	97	86	103
LCSD 320-417924/3-A	Lab Control Sample Dup	102	107	105	109	100	107	106	100
LCSD 320-417940/3-A	Lab Control Sample Dup	91	94	97	86	92	89	82	86
MB 320-417924/1-A	Method Blank	94	96	97	95	91	95	94	92
MB 320-417940/1-A	Method Blank	93	96	102	94	97	98	96	102

Isotope Dilution Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 320-65202-1
Project/Site: PFAS, Fincantieri Marinette Marine 19M106.20

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
LCS 320-417924/2-A	Lab Control Sample	92	93	95	95	97	92	106	102
LCS 320-417940/2-A	Lab Control Sample	75	86	89	89	95	84	88	90
LCSD 320-417924/3-A	Lab Control Sample Dup	100	98	101	102	100	98	117	109
LCSD 320-417940/3-A	Lab Control Sample Dup	92	83	92	93	93	84	91	93
MB 320-417924/1-A	Method Blank	90	85	92	95	92	90	98	96
MB 320-417940/1-A	Method Blank	80	86	92	91	94	90	90	97

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)	M242FTS (25-150)	NEFM (10-120)	dMeFOSA (20-150)	NMFM (10-120)	dEtFOSA (20-150)	PFHxDA (25-150)
LCS 320-417924/2-A	Lab Control Sample	115	124	126	17	55	23	37	98
LCS 320-417940/2-A	Lab Control Sample	99	102	103	24	62	32	44	87
LCSD 320-417924/3-A	Lab Control Sample Dup	133	125	132	23	63	25	46	98
LCSD 320-417940/3-A	Lab Control Sample Dup	100	101	106	22	63	26	46	89
MB 320-417924/1-A	Method Blank	121	115	124	18	48	22	33	90
MB 320-417940/1-A	Method Blank	107	108	103	19	57	19	36	93

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	HFPODA (25-150)
LCS 320-417924/2-A	Lab Control Sample	101
LCS 320-417940/2-A	Lab Control Sample	93
LCSD 320-417924/3-A	Lab Control Sample Dup	106
LCSD 320-417940/3-A	Lab Control Sample Dup	97
MB 320-417924/1-A	Method Blank	96
MB 320-417940/1-A	Method Blank	94

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
M242FTS = M2-4:2 FTS
NEFM = d9-N-EtFOSE-M
dMeFOSA = d-N-MeFOSA-M
NMFM = d7-N-MeFOSE-M
dEtFOSA = d-N-EtFOSA-M
PFHxDA = 13C2 PFHxDA

Isotope Dilution Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 320-65202-1
Project/Site: PFAS, Fincantieri Marinette Marine 19M106.20

HFPODA = 13C3 HFPO-DA

Client: Foth Infrastructure & Environment, LLC
Job ID: 320-65202-1
Project/Site: PFAS, Fincantieri Marinette Marine 19M106.20

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-417924/1-A
Matrix: Water
Analysis Batch: 418013

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 417924

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		10/01/20 19:20	10/02/20 09:31	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		10/01/20 19:20	10/02/20 09:31	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		10/01/20 19:20	10/02/20 09:31	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/01/20 19:20	10/02/20 09:31	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		10/01/20 19:20	10/02/20 09:31	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/01/20 19:20	10/02/20 09:31	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/01/20 19:20	10/02/20 09:31	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/01/20 19:20	10/02/20 09:31	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/01/20 19:20	10/02/20 09:31	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/01/20 19:20	10/02/20 09:31	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/01/20 19:20	10/02/20 09:31	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		10/01/20 19:20	10/02/20 09:31	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/01/20 19:20	10/02/20 09:31	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		10/01/20 19:20	10/02/20 09:31	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/01/20 19:20	10/02/20 09:31	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		10/01/20 19:20	10/02/20 09:31	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/01/20 19:20	10/02/20 09:31	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		10/01/20 19:20	10/02/20 09:31	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/01/20 19:20	10/02/20 09:31	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/01/20 19:20	10/02/20 09:31	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/01/20 19:20	10/02/20 09:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		10/01/20 19:20	10/02/20 09:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		10/01/20 19:20	10/02/20 09:31	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/01/20 19:20	10/02/20 09:31	1
6:2 FTS	<2.5		5.0	2.5	ng/L		10/01/20 19:20	10/02/20 09:31	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/01/20 19:20	10/02/20 09:31	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/01/20 19:20	10/02/20 09:31	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/01/20 19:20	10/02/20 09:31	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/01/20 19:20	10/02/20 09:31	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/01/20 19:20	10/02/20 09:31	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/01/20 19:20	10/02/20 09:31	1
F-53B Major	<0.24		2.0	0.24	ng/L		10/01/20 19:20	10/02/20 09:31	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/01/20 19:20	10/02/20 09:31	1
F-53B Minor	<0.32		2.0	0.32	ng/L		10/01/20 19:20	10/02/20 09:31	1
10:2 FTS	<0.67		2.0	0.67	ng/L		10/01/20 19:20	10/02/20 09:31	1
DONA	<0.40		2.0	0.40	ng/L		10/01/20 19:20	10/02/20 09:31	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*94*		*25 - 150*	*10/01/20 19:20*	*10/02/20 09:31*	*1*
13C5 PFPeA	*96*		*25 - 150*	*10/01/20 19:20*	*10/02/20 09:31*	*1*
13C2 PFHxA	*97*		*25 - 150*	*10/01/20 19:20*	*10/02/20 09:31*	*1*
13C4 PFHpA	*95*		*25 - 150*	*10/01/20 19:20*	*10/02/20 09:31*	*1*
13C4 PFOA	*91*		*25 - 150*	*10/01/20 19:20*	*10/02/20 09:31*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-417924/1-A
Matrix: Water
Analysis Batch: 418013

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 417924

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	95		25 - 150	10/01/20 19:20	10/02/20 09:31	1
13C2 PFDA	94		25 - 150	10/01/20 19:20	10/02/20 09:31	1
13C2 PFUnA	92		25 - 150	10/01/20 19:20	10/02/20 09:31	1
13C2 PFDoA	90		25 - 150	10/01/20 19:20	10/02/20 09:31	1
13C2 PFTeDA	85		25 - 150	10/01/20 19:20	10/02/20 09:31	1
13C3 PFBS	92		25 - 150	10/01/20 19:20	10/02/20 09:31	1
18O2 PFHxS	95		25 - 150	10/01/20 19:20	10/02/20 09:31	1
13C4 PFOS	92		25 - 150	10/01/20 19:20	10/02/20 09:31	1
13C8 FOSA	90		25 - 150	10/01/20 19:20	10/02/20 09:31	1
d3-NMeFOSAA	98		25 - 150	10/01/20 19:20	10/02/20 09:31	1
d5-NEtFOSAA	96		25 - 150	10/01/20 19:20	10/02/20 09:31	1
M2-6:2 FTS	121		25 - 150	10/01/20 19:20	10/02/20 09:31	1
M2-8:2 FTS	115		25 - 150	10/01/20 19:20	10/02/20 09:31	1
M2-4:2 FTS	124		25 - 150	10/01/20 19:20	10/02/20 09:31	1
d9-N-EtFOSE-M	18		10 - 120	10/01/20 19:20	10/02/20 09:31	1
d-N-MeFOSA-M	48		20 - 150	10/01/20 19:20	10/02/20 09:31	1
d7-N-MeFOSE-M	22		10 - 120	10/01/20 19:20	10/02/20 09:31	1
d-N-EtFOSA-M	33		20 - 150	10/01/20 19:20	10/02/20 09:31	1
13C2 PFHxDA	90		25 - 150	10/01/20 19:20	10/02/20 09:31	1
13C3 HFPO-DA	96		25 - 150	10/01/20 19:20	10/02/20 09:31	1

Lab Sample ID: LCS 320-417924/2-A
Matrix: Water
Analysis Batch: 418013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 417924

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	44.3		ng/L		111	76 - 136
Perfluoropentanoic acid (PFPeA)	40.0	39.5		ng/L		99	71 - 131
Perfluorohexanoic acid (PFHxA)	40.0	44.9		ng/L		112	73 - 133
Perfluoroheptanoic acid (PFHpA)	40.0	41.0		ng/L		102	72 - 132
Perfluorooctanoic acid (PFOA)	40.0	43.3		ng/L		108	70 - 130
Perfluorononanoic acid (PFNA)	40.0	42.2		ng/L		105	75 - 135
Perfluorodecanoic acid (PFDA)	40.0	43.8		ng/L		109	76 - 136
Perfluoroundecanoic acid (PFUnA)	40.0	41.5		ng/L		104	68 - 128
Perfluorododecanoic acid (PFDoA)	40.0	43.2		ng/L		108	71 - 131
Perfluorotridecanoic acid (PFTriA)	40.0	38.9		ng/L		97	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	39.6		ng/L		99	70 - 130
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	39.3		ng/L		98	76 - 136
Perfluorobutanesulfonic acid (PFBS)	35.4	39.2		ng/L		111	67 - 127
Perfluoro-n-octadecanoic acid (PFODA)	40.0	38.5		ng/L		96	58 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.5	41.8		ng/L		111	66 - 126
Perfluorohexanesulfonic acid (PFHxS)	36.4	37.7		ng/L		104	59 - 119

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-417924/2-A
Matrix: Water
Analysis Batch: 418013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 417924

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	41.0		ng/L		108	76 - 136
Perfluorooctanesulfonic acid (PFOS)	37.1	37.2		ng/L		100	70 - 130
Perfluorononanesulfonic acid (PFNS)	38.4	41.3		ng/L		108	75 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	41.1		ng/L		107	71 - 131
Perfluorooctanesulfonamide (FOSA)	40.0	42.0		ng/L		105	73 - 133
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	44.0		ng/L		110	76 - 136
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	43.7		ng/L		109	76 - 136
4:2 FTS	37.4	35.1		ng/L		94	79 - 139
6:2 FTS	37.9	42.1		ng/L		111	59 - 175
8:2 FTS	38.3	41.2		ng/L		108	75 - 135
NEtFOSA	40.0	45.6		ng/L		114	78 - 138
NMeFOSA	40.0	47.4		ng/L		118	67 - 154
NMeFOSE	40.0	38.4		ng/L		96	70 - 130
NEtFOSE	40.0	42.7		ng/L		107	71 - 131
Perfluorododecanesulfonic acid (PFDoS)	38.7	42.2		ng/L		109	67 - 127
F-53B Major	37.3	40.4		ng/L		108	75 - 135
HFPO-DA (GenX)	40.0	44.4		ng/L		111	51 - 173
F-53B Minor	37.7	37.5		ng/L		100	54 - 114
10:2 FTS	38.6	40.2		ng/L		104	64 - 142
DONA	37.7	40.4		ng/L		107	79 - 139

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*98*		*25 - 150*
13C5 PFPeA	*99*		*25 - 150*
13C2 PFHxA	*98*		*25 - 150*
13C4 PFHpA	*103*		*25 - 150*
13C4 PFOA	*93*		*25 - 150*
13C5 PFNA	*102*		*25 - 150*
13C2 PFDA	*100*		*25 - 150*
13C2 PFUnA	*94*		*25 - 150*
13C2 PFDoA	*92*		*25 - 150*
13C2 PFTeDA	*93*		*25 - 150*
13C3 PFBS	*95*		*25 - 150*
18O2 PFHxS	*95*		*25 - 150*
13C4 PFOS	*97*		*25 - 150*
13C8 FOSA	*92*		*25 - 150*
d3-NMeFOSAA	*106*		*25 - 150*
d5-NEtFOSAA	*102*		*25 - 150*
M2-6:2 FTS	*115*		*25 - 150*
M2-8:2 FTS	*124*		*25 - 150*
M2-4:2 FTS	*126*		*25 - 150*
d9-N-EtFOSE-M	*17*		*10 - 120*
d-N-MeFOSA-M	*55*		*20 - 150*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-417924/2-A
Matrix: Water
Analysis Batch: 418013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 417924

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d7-N-MeFOSE-M	*23*		*10 - 120*
d-N-EtFOSA-M	*37*		*20 - 150*
13C2 PFHxDA	*98*		*25 - 150*
13C3 HFPO-DA	*101*		*25 - 150*

Lab Sample ID: LCSD 320-417924/3-A
Matrix: Water
Analysis Batch: 418013

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 417924

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	44.9		ng/L		112	76 - 136	1	30
Perfluoropentanoic acid (PFPeA)			40.0	39.0		ng/L		98	71 - 131	1	30
Perfluorohexanoic acid (PFHxA)			40.0	45.9		ng/L		115	73 - 133	2	30
Perfluoroheptanoic acid (PFHpA)			40.0	40.5		ng/L		101	72 - 132	1	30
Perfluorooctanoic acid (PFOA)			40.0	43.3		ng/L		108	70 - 130	0	30
Perfluorononanoic acid (PFNA)			40.0	43.3		ng/L		108	75 - 135	3	30
Perfluorodecanoic acid (PFDA)			40.0	43.9		ng/L		110	76 - 136	0	30
Perfluoroundecanoic acid (PFUnA)			40.0	44.5		ng/L		111	68 - 128	7	30
Perfluorododecanoic acid (PFDoA)			40.0	44.8		ng/L		112	71 - 131	4	30
Perfluorotridecanoic acid (PFTriA)			40.0	40.5		ng/L		101	71 - 131	4	30
Perfluorotetradecanoic acid (PFTeA)			40.0	40.3		ng/L		101	70 - 130	2	30
Perfluoro-n-hexadecanoic acid (PFHxDA)			40.0	45.9		ng/L		115	76 - 136	16	30
Perfluorobutanesulfonic acid (PFBS)			35.4	39.4		ng/L		112	67 - 127	1	30
Perfluoro-n-octadecanoic acid (PFODA)			40.0	40.2		ng/L		100	58 - 145	4	30
Perfluoropentanesulfonic acid (PFPeS)			37.5	40.9		ng/L		109	66 - 126	2	30
Perfluorohexanesulfonic acid (PFHxS)			36.4	37.9		ng/L		104	59 - 119	0	30
Perfluoroheptanesulfonic Acid (PFHpS)			38.1	40.4		ng/L		106	76 - 136	1	30
Perfluorooctanesulfonic acid (PFOS)			37.1	37.7		ng/L		102	70 - 130	1	30
Perfluorononanesulfonic acid (PFNS)			38.4	41.8		ng/L		109	75 - 135	1	30
Perfluorodecanesulfonic acid (PFDS)			38.6	41.6		ng/L		108	71 - 131	1	30
Perfluorooctanesulfonamide (FOSA)			40.0	42.8		ng/L		107	73 - 133	2	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			40.0	44.3		ng/L		111	76 - 136	1	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			40.0	44.6		ng/L		111	76 - 136	2	30
4:2 FTS			37.4	38.8		ng/L		104	79 - 139	10	30
6:2 FTS			37.9	40.0		ng/L		105	59 - 175	5	30
8:2 FTS			38.3	43.7		ng/L		114	75 - 135	6	30
NEtFOSA			40.0	46.2		ng/L		116	78 - 138	1	30

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-417924/3-A
Matrix: Water
Analysis Batch: 418013

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 417924

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
NMeFOSA			40.0	41.1		ng/L		103	67 - 154	14	30
NMeFOSE			40.0	46.2		ng/L		115	70 - 130	18	30
NEtFOSE			40.0	42.0		ng/L		105	71 - 131	2	30
Perfluorododecanesulfonic acid (PFDoS)			38.7	42.6		ng/L		110	67 - 127	1	30
F-53B Major			37.3	42.5		ng/L		114	75 - 135	5	30
HFPO-DA (GenX)			40.0	44.8		ng/L		112	51 - 173	1	30
F-53B Minor			37.7	40.5		ng/L		107	54 - 114	8	30
10:2 FTS			38.6	47.9		ng/L		124	64 - 142	18	30
DONA			37.7	43.2		ng/L		115	79 - 139	7	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*102*		*25 - 150*
13C5 PFPeA	*107*		*25 - 150*
13C2 PFHxA	*105*		*25 - 150*
13C4 PFHpA	*109*		*25 - 150*
13C4 PFOA	*100*		*25 - 150*
13C5 PFNA	*107*		*25 - 150*
13C2 PFDA	*106*		*25 - 150*
13C2 PFUnA	*100*		*25 - 150*
13C2 PFDoA	*100*		*25 - 150*
13C2 PFTeDA	*98*		*25 - 150*
13C3 PFBS	*101*		*25 - 150*
18O2 PFHxS	*102*		*25 - 150*
13C4 PFOS	*100*		*25 - 150*
13C8 FOSA	*98*		*25 - 150*
d3-NMeFOSAA	*117*		*25 - 150*
d5-NEtFOSAA	*109*		*25 - 150*
M2-6:2 FTS	*133*		*25 - 150*
M2-8:2 FTS	*125*		*25 - 150*
M2-4:2 FTS	*132*		*25 - 150*
d9-N-EtFOSE-M	*23*		*10 - 120*
d-N-MeFOSA-M	*63*		*20 - 150*
d7-N-MeFOSE-M	*25*		*10 - 120*
d-N-EtFOSA-M	*46*		*20 - 150*
13C2 PFHxDA	*98*		*25 - 150*
13C3 HFPO-DA	*106*		*25 - 150*

Lab Sample ID: MB 320-417940/1-A
Matrix: Water
Analysis Batch: 418237

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 417940

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		10/02/20 04:37	10/02/20 19:30	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		10/02/20 04:37	10/02/20 19:30	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		10/02/20 04:37	10/02/20 19:30	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/02/20 04:37	10/02/20 19:30	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		10/02/20 04:37	10/02/20 19:30	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/02/20 04:37	10/02/20 19:30	1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-417940/1-A
Matrix: Water
Analysis Batch: 418237

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 417940

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/02/20 04:37	10/02/20 19:30	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/02/20 04:37	10/02/20 19:30	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/02/20 04:37	10/02/20 19:30	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		10/02/20 04:37	10/02/20 19:30	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/02/20 04:37	10/02/20 19:30	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		10/02/20 04:37	10/02/20 19:30	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/02/20 04:37	10/02/20 19:30	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		10/02/20 04:37	10/02/20 19:30	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/02/20 04:37	10/02/20 19:30	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		10/02/20 04:37	10/02/20 19:30	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/02/20 04:37	10/02/20 19:30	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		10/02/20 04:37	10/02/20 19:30	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/02/20 04:37	10/02/20 19:30	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/02/20 04:37	10/02/20 19:30	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/02/20 04:37	10/02/20 19:30	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.2		5.0	1.2	ng/L		10/02/20 04:37	10/02/20 19:30	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.3		5.0	1.3	ng/L		10/02/20 04:37	10/02/20 19:30	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/02/20 04:37	10/02/20 19:30	1
6:2 FTS	<2.5		5.0	2.5	ng/L		10/02/20 04:37	10/02/20 19:30	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/02/20 04:37	10/02/20 19:30	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/02/20 04:37	10/02/20 19:30	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/02/20 04:37	10/02/20 19:30	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/02/20 04:37	10/02/20 19:30	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/02/20 04:37	10/02/20 19:30	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/02/20 04:37	10/02/20 19:30	1
F-53B Major	<0.24		2.0	0.24	ng/L		10/02/20 04:37	10/02/20 19:30	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/02/20 04:37	10/02/20 19:30	1
F-53B Minor	<0.32		2.0	0.32	ng/L		10/02/20 04:37	10/02/20 19:30	1
10:2 FTS	<0.67		2.0	0.67	ng/L		10/02/20 04:37	10/02/20 19:30	1
DONA	<0.40		2.0	0.40	ng/L		10/02/20 04:37	10/02/20 19:30	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*93*		*25 - 150*	*10/02/20 04:37*	*10/02/20 19:30*	*1*
13C5 PFPeA	*96*		*25 - 150*	*10/02/20 04:37*	*10/02/20 19:30*	*1*
13C2 PFHxA	*102*		*25 - 150*	*10/02/20 04:37*	*10/02/20 19:30*	*1*
13C4 PFHpA	*94*		*25 - 150*	*10/02/20 04:37*	*10/02/20 19:30*	*1*
13C4 PFOA	*97*		*25 - 150*	*10/02/20 04:37*	*10/02/20 19:30*	*1*
13C5 PFNA	*98*		*25 - 150*	*10/02/20 04:37*	*10/02/20 19:30*	*1*
13C2 PFDA	*96*		*25 - 150*	*10/02/20 04:37*	*10/02/20 19:30*	*1*
13C2 PFUnA	*102*		*25 - 150*	*10/02/20 04:37*	*10/02/20 19:30*	*1*
13C2 PFDoA	*80*		*25 - 150*	*10/02/20 04:37*	*10/02/20 19:30*	*1*
13C2 PFTeDA	*86*		*25 - 150*	*10/02/20 04:37*	*10/02/20 19:30*	*1*
13C3 PFBS	*92*		*25 - 150*	*10/02/20 04:37*	*10/02/20 19:30*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-417940/1-A
Matrix: Water
Analysis Batch: 418237

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 417940

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	91		25 - 150	10/02/20 04:37	10/02/20 19:30	1
13C4 PFOS	94		25 - 150	10/02/20 04:37	10/02/20 19:30	1
13C8 FOSA	90		25 - 150	10/02/20 04:37	10/02/20 19:30	1
d3-NMeFOSAA	90		25 - 150	10/02/20 04:37	10/02/20 19:30	1
d5-NEtFOSAA	97		25 - 150	10/02/20 04:37	10/02/20 19:30	1
M2-6:2 FTS	107		25 - 150	10/02/20 04:37	10/02/20 19:30	1
M2-8:2 FTS	108		25 - 150	10/02/20 04:37	10/02/20 19:30	1
M2-4:2 FTS	103		25 - 150	10/02/20 04:37	10/02/20 19:30	1
d9-N-EtFOSE-M	19		10 - 120	10/02/20 04:37	10/02/20 19:30	1
d-N-MeFOSA-M	57		20 - 150	10/02/20 04:37	10/02/20 19:30	1
d7-N-MeFOSE-M	19		10 - 120	10/02/20 04:37	10/02/20 19:30	1
d-N-EtFOSA-M	36		20 - 150	10/02/20 04:37	10/02/20 19:30	1
13C2 PFHxDA	93		25 - 150	10/02/20 04:37	10/02/20 19:30	1
13C3 HFPO-DA	94		25 - 150	10/02/20 04:37	10/02/20 19:30	1

Lab Sample ID: LCS 320-417940/2-A
Matrix: Water
Analysis Batch: 418237

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 417940

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	43.8		ng/L		110	76 - 136
Perfluoropentanoic acid (PFPeA)	40.0	39.3		ng/L		98	71 - 131
Perfluorohexanoic acid (PFHxA)	40.0	44.3		ng/L		111	73 - 133
Perfluoroheptanoic acid (PFHpA)	40.0	38.4		ng/L		96	72 - 132
Perfluorooctanoic acid (PFOA)	40.0	42.2		ng/L		106	70 - 130
Perfluorononanoic acid (PFNA)	40.0	45.8		ng/L		115	75 - 135
Perfluorodecanoic acid (PFDA)	40.0	42.0		ng/L		105	76 - 136
Perfluoroundecanoic acid (PFUnA)	40.0	35.9		ng/L		90	68 - 128
Perfluorododecanoic acid (PFDoA)	40.0	55.1	*	ng/L		138	71 - 131
Perfluorotridecanoic acid (PFTriA)	40.0	38.1		ng/L		95	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	41.0		ng/L		102	70 - 130
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	38.7		ng/L		97	76 - 136
Perfluorobutanesulfonic acid (PFBS)	35.4	38.7		ng/L		109	67 - 127
Perfluoro-n-octadecanoic acid (PFODA)	40.0	36.3		ng/L		91	58 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.5	41.7		ng/L		111	66 - 126
Perfluorohexanesulfonic acid (PFHxS)	36.4	37.4		ng/L		103	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	40.3		ng/L		106	76 - 136
Perfluorooctanesulfonic acid (PFOS)	37.1	36.8		ng/L		99	70 - 130
Perfluorononanesulfonic acid (PFNS)	38.4	40.6		ng/L		106	75 - 135

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-417940/2-A
Matrix: Water
Analysis Batch: 418237

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 417940

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorodecanesulfonic acid (PFDS)	38.6	38.0		ng/L		99	71 - 131
Perfluorooctanesulfonamide (FOSA)	40.0	42.1		ng/L		105	73 - 133
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	43.6		ng/L		109	76 - 136
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	42.7		ng/L		107	76 - 136
4:2 FTS	37.4	36.3		ng/L		97	79 - 139
6:2 FTS	37.9	39.2		ng/L		103	59 - 175
8:2 FTS	38.3	39.6		ng/L		103	75 - 135
NEtFOSA	40.0	44.6		ng/L		112	78 - 138
NMeFOSA	40.0	45.2		ng/L		113	67 - 154
NMeFOSE	40.0	31.9		ng/L		80	70 - 130
NEtFOSE	40.0	39.6		ng/L		99	71 - 131
Perfluorododecanesulfonic acid (PFDoS)	38.7	34.5		ng/L		89	67 - 127
F-53B Major	37.3	39.0		ng/L		105	75 - 135
HFPO-DA (GenX)	40.0	42.5		ng/L		106	51 - 173
F-53B Minor	37.7	37.0		ng/L		98	54 - 114
10:2 FTS	38.6	42.9		ng/L		111	64 - 142
DONA	37.7	42.2		ng/L		112	79 - 139

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*90*		*25 - 150*
13C5 PFPeA	*96*		*25 - 150*
13C2 PFHxA	*94*		*25 - 150*
13C4 PFHpA	*94*		*25 - 150*
13C4 PFOA	*91*		*25 - 150*
13C5 PFNA	*97*		*25 - 150*
13C2 PFDA	*86*		*25 - 150*
13C2 PFUnA	*103*		*25 - 150*
13C2 PFDoA	*75*		*25 - 150*
13C2 PFTeDA	*86*		*25 - 150*
13C3 PFBS	*89*		*25 - 150*
18O2 PFHxS	*89*		*25 - 150*
13C4 PFOS	*95*		*25 - 150*
13C8 FOSA	*84*		*25 - 150*
d3-NMeFOSAA	*88*		*25 - 150*
d5-NEtFOSAA	*90*		*25 - 150*
M2-6:2 FTS	*99*		*25 - 150*
M2-8:2 FTS	*102*		*25 - 150*
M2-4:2 FTS	*103*		*25 - 150*
d9-N-EtFOSE-M	*24*		*10 - 120*
d-N-MeFOSA-M	*62*		*20 - 150*
d7-N-MeFOSE-M	*32*		*10 - 120*
d-N-EtFOSA-M	*44*		*20 - 150*
13C2 PFHxDA	*87*		*25 - 150*
13C3 HFPO-DA	*93*		*25 - 150*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-417940/3-A
Matrix: Water
Analysis Batch: 418237

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 417940

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	40.0	42.6		ng/L		106	76 - 136	3	30
Perfluoropentanoic acid (PFPeA)	40.0	38.9		ng/L		97	71 - 131	1	30
Perfluorohexanoic acid (PFHxA)	40.0	43.2		ng/L		108	73 - 133	2	30
Perfluoroheptanoic acid (PFHpA)	40.0	44.4		ng/L		111	72 - 132	14	30
Perfluorooctanoic acid (PFOA)	40.0	42.6		ng/L		107	70 - 130	1	30
Perfluorononanoic acid (PFNA)	40.0	45.0		ng/L		113	75 - 135	2	30
Perfluorodecanoic acid (PFDA)	40.0	42.3		ng/L		106	76 - 136	1	30
Perfluoroundecanoic acid (PFUnA)	40.0	46.1		ng/L		115	68 - 128	25	30
Perfluorododecanoic acid (PFDoA)	40.0	40.5	*	ng/L		101	71 - 131	31	30
Perfluorotridecanoic acid (PFTriA)	40.0	33.1		ng/L		83	71 - 131	14	30
Perfluorotetradecanoic acid (PFTeA)	40.0	47.8		ng/L		120	70 - 130	15	30
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	32.8		ng/L		82	76 - 136	16	30
Perfluorobutanesulfonic acid (PFBS)	35.4	37.1		ng/L		105	67 - 127	4	30
Perfluoro-n-octadecanoic acid (PFODA)	40.0	37.0		ng/L		93	58 - 145	2	30
Perfluoropentanesulfonic acid (PFPeS)	37.5	41.2		ng/L		110	66 - 126	1	30
Perfluorohexanesulfonic acid (PFHxS)	36.4	34.9		ng/L		96	59 - 119	7	30
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	41.0		ng/L		108	76 - 136	2	30
Perfluorooctanesulfonic acid (PFOS)	37.1	38.3		ng/L		103	70 - 130	4	30
Perfluorononanesulfonic acid (PFNS)	38.4	42.2		ng/L		110	75 - 135	4	30
Perfluorodecanesulfonic acid (PFDS)	38.6	41.1		ng/L		107	71 - 131	8	30
Perfluorooctanesulfonamide (FOSA)	40.0	41.1		ng/L		103	73 - 133	2	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.1		ng/L		105	76 - 136	3	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	40.4		ng/L		101	76 - 136	6	30
4:2 FTS	37.4	35.5		ng/L		95	79 - 139	2	30
6:2 FTS	37.9	38.6		ng/L		102	59 - 175	2	30
8:2 FTS	38.3	39.5		ng/L		103	75 - 135	0	30
NEtFOSA	40.0	42.0		ng/L		105	78 - 138	6	30
NMeFOSA	40.0	42.2		ng/L		105	67 - 154	7	30
NMeFOSE	40.0	35.7		ng/L		89	70 - 130	11	30
NEtFOSE	40.0	42.1		ng/L		105	71 - 131	6	30
Perfluorododecanesulfonic acid (PFDoS)	38.7	36.6		ng/L		95	67 - 127	6	30
F-53B Major	37.3	40.8		ng/L		109	75 - 135	4	30
HFPO-DA (GenX)	40.0	41.4		ng/L		104	51 - 173	3	30
F-53B Minor	37.7	38.5		ng/L		102	54 - 114	4	30
10:2 FTS	38.6	42.1		ng/L		109	64 - 142	2	30
DONA	37.7	41.7		ng/L		111	79 - 139	1	30

Client: Foth Infrastructure & Environment, LLC
Job ID: 320-65202-1
Project/Site: PFAS, Fincantieri Marinette Marine 19M106.20

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C4 PFBA	91		25 - 150
13C5 PFPeA	94		25 - 150
13C2 PFHxA	97		25 - 150
13C4 PFHpA	86		25 - 150
13C4 PFOA	92		25 - 150
13C5 PFNA	89		25 - 150
13C2 PFDA	82		25 - 150
13C2 PFUnA	86		25 - 150
13C2 PFDoA	92		25 - 150
13C2 PFTeDA	83		25 - 150
13C3 PFBS	92		25 - 150
18O2 PFHxS	93		25 - 150
13C4 PFOS	93		25 - 150
13C8 FOSA	84		25 - 150
d3-NMeFOSAA	91		25 - 150
d5-NEtFOSAA	93		25 - 150
M2-6:2 FTS	100		25 - 150
M2-8:2 FTS	101		25 - 150
M2-4:2 FTS	106		25 - 150
d9-N-EtFOSE-M	22		10 - 120
d-N-MeFOSA-M	63		20 - 150
d7-N-MeFOSE-M	26		10 - 120
d-N-EtFOSA-M	46		20 - 150
13C2 PFHxDA	89		25 - 150
13C3 HFPO-DA	97		25 - 150

LCMS

Prep Batch: 417924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-65202-4	GP-4W	Total/NA	Ground Water	3535	
320-65202-4 - DL	GP-4W	Total/NA	Ground Water	3535	
320-65202-5	GP-4W-D	Total/NA	Ground Water	3535	
320-65202-5 - DL	GP-4W-D	Total/NA	Ground Water	3535	
320-65202-6	GP-W-ER	Total/NA	Ground Water	3535	
MB 320-417924/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-417924/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-417924/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Prep Batch: 417940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-65202-1	GP-1W	Total/NA	Ground Water	3535	
320-65202-1 - DL	GP-1W	Total/NA	Ground Water	3535	
320-65202-2	GP-3W	Total/NA	Ground Water	3535	
320-65202-2 - DL	GP-3W	Total/NA	Ground Water	3535	
320-65202-3 - DL	GP-6W	Total/NA	Ground Water	3535	
320-65202-3	GP-6W	Total/NA	Ground Water	3535	
MB 320-417940/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-417940/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-417940/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 418013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-65202-4	GP-4W	Total/NA	Ground Water	537 (modified)	417924
320-65202-5	GP-4W-D	Total/NA	Ground Water	537 (modified)	417924
320-65202-6	GP-W-ER	Total/NA	Ground Water	537 (modified)	417924
MB 320-417924/1-A	Method Blank	Total/NA	Water	537 (modified)	417924
LCS 320-417924/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	417924
LCSD 320-417924/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	417924

Analysis Batch: 418237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-65202-1	GP-1W	Total/NA	Ground Water	537 (modified)	417940
320-65202-2	GP-3W	Total/NA	Ground Water	537 (modified)	417940
320-65202-3	GP-6W	Total/NA	Ground Water	537 (modified)	417940
MB 320-417940/1-A	Method Blank	Total/NA	Water	537 (modified)	417940
LCS 320-417940/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	417940
LCSD 320-417940/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	417940

Analysis Batch: 418556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-65202-4 - DL	GP-4W	Total/NA	Ground Water	537 (modified)	417924
320-65202-5 - DL	GP-4W-D	Total/NA	Ground Water	537 (modified)	417924

Analysis Batch: 418842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-65202-3 - DL	GP-6W	Total/NA	Ground Water	537 (modified)	417940

Analysis Batch: 419475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-65202-1 - DL	GP-1W	Total/NA	Ground Water	537 (modified)	417940

LCMS (Continued)

Analysis Batch: 419475 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-65202-2 - DL	GP-3W	Total/NA	Ground Water	537 (modified)	417940

Client Sample ID: GP-1W
Date Collected: 09/29/20 12:25
Date Received: 10/01/20 09:40

Lab Sample ID: 320-65202-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			274.1 mL	10.0 mL	417940	10/02/20 04:37	EG	TAL SAC
Total/NA	Analysis	537 (modified)		1			418237	10/02/20 21:28	RS1	TAL SAC
Total/NA	Prep	3535	DL		274.1 mL	10.0 mL	417940	10/02/20 04:37	EG	TAL SAC
Total/NA	Analysis	537 (modified)	DL	100			419475	10/07/20 11:36	RS1	TAL SAC

Client Sample ID: GP-3W
Date Collected: 09/29/20 14:25
Date Received: 10/01/20 09:40

Lab Sample ID: 320-65202-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			283.8 mL	10.0 mL	417940	10/02/20 04:37	EG	TAL SAC
Total/NA	Analysis	537 (modified)		1			418237	10/02/20 21:38	RS1	TAL SAC
Total/NA	Prep	3535	DL		283.8 mL	10.0 mL	417940	10/02/20 04:37	EG	TAL SAC
Total/NA	Analysis	537 (modified)	DL	100			419475	10/07/20 11:45	RS1	TAL SAC

Client Sample ID: GP-6W
Date Collected: 09/29/20 10:45
Date Received: 10/01/20 09:40

Lab Sample ID: 320-65202-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			286 mL	10.0 mL	417940	10/02/20 04:37	EG	TAL SAC
Total/NA	Analysis	537 (modified)		1			418237	10/02/20 21:47	RS1	TAL SAC
Total/NA	Prep	3535	DL		286 mL	10.0 mL	417940	10/02/20 04:37	EG	TAL SAC
Total/NA	Analysis	537 (modified)	DL	5			418842	10/05/20 17:02	K1S	TAL SAC

Client Sample ID: GP-4W
Date Collected: 09/29/20 08:55
Date Received: 10/01/20 09:40

Lab Sample ID: 320-65202-4
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			269.2 mL	10.00 mL	417924	10/01/20 19:20	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			418013	10/02/20 09:58	S1M	TAL SAC
Total/NA	Prep	3535	DL		269.2 mL	10.00 mL	417924	10/01/20 19:20	VP	TAL SAC
Total/NA	Analysis	537 (modified)	DL	10			418556	10/04/20 13:08	D1R	TAL SAC

Client Sample ID: GP-4W-D
Date Collected: 09/29/20 08:55
Date Received: 10/01/20 09:40

Lab Sample ID: 320-65202-5
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			262.3 mL	10.00 mL	417924	10/01/20 19:20	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			418013	10/02/20 10:07	S1M	TAL SAC
Total/NA	Prep	3535	DL		262.3 mL	10.00 mL	417924	10/01/20 19:20	VP	TAL SAC
Total/NA	Analysis	537 (modified)	DL	10			418556	10/04/20 13:18	D1R	TAL SAC

Lab Chronicle

Client: Foth Infrastructure & Environment, LLC
Job ID: 320-65202-1
Project/Site: PFAS, Fincantieri Marinette Marine 19M106.20

Client Sample ID: GP-W-ER
Date Collected: 09/29/20 15:05
Date Received: 10/01/20 09:40

Lab Sample ID: 320-65202-6
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			268.1 mL	10.00 mL	417924	10/01/20 19:20	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			418013	10/02/20 10:16	S1M	TAL SAC

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 320-65202-1
Project/Site: PFAS, Fincantieri Marinette Marine 19M106.20

Laboratory: Eurofins TestAmerica, Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-21

Method Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 320-65202-1
Project/Site: PFAS, Fincantieri Marinette Marine 19M106.20

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Foth Infrastructure & Environment, LLC
Job ID: 320-65202-1
Project/Site: PFAS, Fincantieri Marinette Marine 19M106.20

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-65202-1	GP-1W	Ground Water	09/29/20 12:25	10/01/20 09:40	
320-65202-2	GP-3W	Ground Water	09/29/20 14:25	10/01/20 09:40	
320-65202-3	GP-6W	Ground Water	09/29/20 10:45	10/01/20 09:40	
320-65202-4	GP-4W	Ground Water	09/29/20 08:55	10/01/20 09:40	
320-65202-5	GP-4W-D	Ground Water	09/29/20 08:55	10/01/20 09:40	
320-65202-6	GP-W-ER	Ground Water	09/29/20 15:05	10/01/20 09:40	

Ref:
Dep:

Date: 15Sep20
Wgt: 20.00 LBS
DV: 0.00

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

Svcs: PRIORITY OVERNIGHT

TRCK: 7125 4943 2140

Foth

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

Lab Information:

Lab Name:	Test America
Address:	2417 Bond St., University Park, IL 60484
Lab PM:	Sandie Fredrick
Phone/Fax:	920-261-1660
Lab PM email:	Sandra.Fredrick@testamericainc.com
Applicable Lab Quote #	

Project Information:

Site ID #:	FMM B34/B35 Supplemental Yard Inv.
Project #:	19M106.20
Site Address:	Fincantieri Marinette Marine 1600 Ely Street
City-State-Zip:	Marinette, WI 54143
Site PM Name:	Denis Roznowski
Phone/Fax:	(920) 496-6756
Sampler Name:	Rick Panosh, Bob Meller

Other Information:

Send Invoice to:	invoices@foth.com
Address:	2121 Innovation Ct.
City/State:	De Pere WI 54115
Phone #:	920-496-6687
Foth Project No.:	19M106.20
Send EDD to:	Steve.Lehrke@foth.com
CC Hard copy report to:	
CC Electronic reports (lab report and data in spreadsheet format):	denis.roznowski@foth.com; rick.panosh@foth.com; steve.lehrke@foth.com;

Task: Groundwater Sampling
Turn Around Time: Standard (or 7 - day)
QC level Required: Standard Level II Report

ITEM #	SAMPLE ID (Samples IDs MUST BE UNIQUE)	SAMPLE LOCATION	MATRIX CODE	G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	Comments/Lab Sample I.D.	Preservative: Groundwater = None	Preservative: Water = None	Analysis: PFC_IDA - PFAS, Wisconsin List (36 Analytes)	Analysis: PFC_IDA - PFAS, Wisconsin List (36 Analytes)
1	GP-1W	GP-1W	GW	G	9/29/20	1225	2				X	
2	GP-3W	GP-3W	GW	G	9/29/20	1425	2				X	
3	GP-6W	GP-6W	GW	G	9/29/20	1045	2				X	
4	GP-4W	GP-4W	GW	G	9/29/20	0855	2				X	
5	GP-4W-D	GP-4W	GW	G	9/29/20	0855	2				X	
6	GP-W-ER	Equip Rinsate	Water	G	9/29/20	1505	2					X
7												
8												
9												
10												

320-65202 Chain of Custody

Additional Comments/Special Instructions:
Samples are unfiltered.

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	9-30-20	0900	[signature] FedEx	10/1/20	940

Sample Receipt Conditions

	Y / N	Y / N	Y / N
	Y / N	Y / N	Y / N
	Y / N	Y / N	Y / N
	Y / N	Y / N	Y / N
Temp in OC	Samples on Ice?	Sample intact?	Trip Blank?

SHIPPING INFO:
Company: FedEx
Tracking #: 7125 4943 2140

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Rick Panosh
SIGNATURE of SAMPLER: [signature]
DATE Signed: 9-30-20 0900

1.4 @ 1.8

10/8/2020

Login Sample Receipt Checklist

Client: Foth Infrastructure & Environment, LLC

Job Number: 320-65202-1

Login Number: 65202
List Number: 1
Creator: Thompson, Sarah W

List Source: Eurofins TestAmerica, Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	991279
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Attachment 5

Notification for Hazardous Substance Discharge Form (Form 4400-225)

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Notification For Hazardous Substance Discharge (Non-Emergency Only)

Form 4400-225 (R 02/20)

Emergency Discharges / Spills should be reported via the 24-Hour Hotline: 1-800-943-0003

Notice: Hazardous substance discharges must be reported immediately according to s. 292.11 Wis. Stats. Non-emergency hazardous substance discharges may be reported by telefaxing or e-mailing a completed report to the Department, or calling or visiting a Department office in person. If you choose to notify the Department by telefax or by email, you should use this form to be sure that all necessary information is included. However, use of this form is not mandatory. Under s. 292.99, Wis. Stats., the penalty for violating the reporting requirements of ch. 292 Wis. Stats., shall be no less than $10 nor more than $5000 for each violation. Each day of continued violation is a separate offense. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than program administration. However, information submitted on this form may also be made available to requesters under Wisconsin's Open Records Law (ss. 19.31 – 19.39, Wis. Stats.).

Confirmatory laboratory data should be included with this form, to assist the DNR in processing this Hazardous Substance Release Notification.

Complete this form. **TYPE or PRINT LEGIBLY.** NOTIFY appropriate DNR region (see next page) **IMMEDIATELY** upon discovery of a potential release from **(check one)**:

- ◯ Underground Petroleum Storage Tank System (additional information may be required for Item 6 below)
- ◯ Aboveground Petroleum Storage Tank System
- ◯ Dry Cleaner Facility
- ◉ Other - Describe: Residuals detected in soil & shallow groundwater under paved parking and access areas on active industrial property.

ATTN DNR: **R & R Program Associate**

Date DNR Notified:

1. Discharge Reported By

Name	Firm	Phone Number (include area code)
Robert Meller	Foth Infrastructure & Environment, LLC	(920) 497-2500

Mailing Address	Email
P.O. Box 5126, De Pere, WI 54115-5126	Bob.Meller@Foth.com

2. Site Information

Name of site at which discharge occurred. Include local name of site/business, not responsible party name, unless a residence/vacant property.

Fincantieri Marinette Marine

Location: Include street address, not PO Box. If no street address, describe as precisely as possible, i.e., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60.

1600 Ely Street

Municipality: (City, Village, Township) Specify municipality in which the site is located, not mailing address/city.

Marinette

County	Legal Description:	WTM:
Marinette	NE ¼ of SE ¼ Section 6, Town 30 N, Range 24 ◉ E ◯ W	X 707233 Y 516492

3. Responsible Party (RP) and/or RP Representative

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

Fincantieri Marinette Marine

☐ A local governmental unit claiming an exemption from state Spill Law and Solid Waste Management responsibilities for the discharge being reported, per Wis. Stat. §§ 292.11(9)(e) and 292.23, should: 1) check this box; 2) review DNR publication RR-055; and 3) provide documentation to DNR that demonstrates compliance with the statutory requirements of the liability exemptions. Local governmental units may also request a fee-based liability clarification letter from DNR by using DNR Form 4400-237.

Contact Person Name (if different)	Phone Number	Email
Warren Netzow	(715) 735-9341	Warren.Netzow@us.fincantieri.com

Mailing Address	City	State	ZIP Code
1600 Ely Street	Marinette	WI	54143

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

Fincantieri Marinette Marine

Contact Person Name (if different)	Phone Number	Email
Warren Netzow	(715) 735-9341	Warren.Netzow@us.fincantieri.com

Mailing Address	City	State	ZIP Code
1600 Ely Street	Marinette	WI	54143

(continued)

Notification For Hazardous Substance Discharge (Non-Emergency Only)

4. Hazardous Substance Information

Identify hazardous substance discharged (check all that apply):

- [x] VOCs
  - [ ] PCE
  - [ ] TCE
  - [ ] Other Chlorinated
  - [ ] Diesel
  - [ ] Fuel Oil
  - [ ] Gasoline
  - [ ] Hydraulic Oil
  - [ ] Jet Fuel

(VOCs continued)

- [ ] Mineral Oil
- [ ] Waste Oil
- [x] Petroleum-Unknown Type
- [x] PAHs
- [x] PCBs
- [ ] Cyanide
- [ ] Leachate
- [ ] Manure

- [x] Metals
  - [x] Arsenic
  - [ ] Chromium
  - [x] Lead
  - [ ] Other: _____
- [ ] Pesticides: _____
- [ ] Fertilizer: _____
- [ ] RCRA Hazardous Waste: _____
- [ ] Other: _____
- [ ] Unknown

5. Impacts to the Environment Information

Enter "K" for known/confirmed or "P" for potential for all that apply.

- ___ Air Contamination
- K Co-mingled (Petroleum & Non-Petroleum)
- ___ Contamination in Fractured Bedrock
- ___ Contamination Within 1 Meter of Bedrock
- ___ Contaminated Private Well
- ___ Contaminated Public Well
- ___ Contamination in Right of Way
- ___ Fire Explosion Threat
- ___ Free Product
- K Groundwater Contamination
- ___ Off-Site Contamination
- ___ Sanitary Sewer Contamination
- ___ Storm Sewer Contamination
- ___ Sediment Contamination
- K Soil Contamination
- ___ Soil Gas Contamination
- ___ Sub-slab Vapor Contamination
- ___ Surface Water Contamination
- ___ Within 100 ft of Private Well
- ___ Within 1000 ft of Public Well

Other (specify): _____

Contamination was discovered as a result of:

- [ ] Tank closure assessment Date
- [ ] Site assessment Date
- [x] Other - Describe: Pre-construction site characterization work. Date 10/06/2020

Lab results: [ ] Lab results will be faxed upon receipt [x] Lab results are attached

Additional Comments: Include a brief description of immediate actions taken to halt the release and contain or cleanup hazardous substances that have been discharged.

Impacts to soil and groundwater are historic residuals below existing paved parking lot and access areas on active industrial property.

6. Federal Energy Act Requirements (Section 9002(d) of the Solid Waste Disposal Act (SWDA))

For all confirmed releases from USTs occurring after 9/30/2007 please provide the following information:

- [x] Does not apply.

Source

- [ ] Tank
- [ ] Piping
- [ ] Dispenser
- [ ] Submersible Turbine Pump
- [ ] Delivery Problem
- [ ] Other (specify): _____

Cause

- [ ] Spill
- [ ] Overfill
- [ ] Corrosion
- [ ] Physical or Mechanical Damage
- [ ] Installation Problem
- [ ] Other (does not fit any of above)
- [ ] Unknown

Submit this completed form along with any associate lab results using the RR Program Submittal Portal, found on the DNR website at https://dnr.wi.gov/topic/Brownfields/Submittal.html.

If you have any questions, please contact the appropriate regional Environmental Program Associate (EPA) listed under the "EPAs" tab at https://dnr.wi.gov/topic/Brownfields/Contact.html.