ENGINEERING
ARCHITECTURE
ENVIRONMENTAL
PLANNING

OMNNI ASSOCIATES

OMNNI ASSOCIATES, INC.
ONE SYSTEMS DRIVE
APPLETON, WI 54914-1654
TEL: 920-735-6900

August 21, 2018

Mr. Keld Lauridsen
Hydrogeologist/Project Manager
WDNR-Northeast Region RR
2984 Shawano Avenue
Green Bay, WI 54313-6727

RE: Summary of the June 12 & 13, 2018 groundwater sampling events at the former Better Brite Chrome and Zinc Shops.

Dear Keld:

The purpose of this letter report is to summarize the groundwater sampling events conducted on June 12 & 13, 2018 at the former Better Brite chrome and zinc shops. The former Better Brite facilities are located at 519 Lande Street (chrome shop, BRRTS # 02-05-000030) and 315 S. 6th Street (zinc shop, BRRTS # 02-05-000031), De Pere, Wisconsin. (See Figure 1 – Site Location Map.) This report includes:

- Figure 1 – Site Location Map
- Figure 2 – Monitoring Wells – Chrome Site
- Figure 3 – Monitoring Wells – Zinc Site
- Well Specific Field Sheets
- Table 1 – Groundwater Analytical Summary, Better Brite – Chrome Shop
- Table 2 – Groundwater Analytical Summary, Better Brite – Zinc Shop
- Monitoring Well Photograph Summary
- Laboratory Report

Groundwater elevations were only taken at the monitoring points that were sampled. Groundwater elevations were recorded on the well specific field sheets. (See Well Specific Field Sheets.)

Monitoring points W-1, W-1A, and MW-2 would allow the water level meter probe to be placed down the PVC pipe. However, a standard bailer would not freely go down the PVC pipe. (See Monitoring Well Photograph Summary.) A peristaltic pump was used to collect the samples. FOTH previously purged these monitoring points (on May 25 and June 10, 2018) prior to OMNNI's sampling.

Monitoring well MW6 was found to have a hornets nest inside of the pro-top pipe at the time of sampling. The pro-top cover was sprayed with Eliminator Wasp and Hornet Killer before sampling was conducted. MW6's pro-top cover was rinsed with distilled water before pulling out the J plug on top of the PVC pipe.

Monitoring well covers were inspected at all monitoring points that could be located during the sampling event. The conditions of the covers were noted on the well specific field sheets and photographs of the covers were taken. (See Well Specific Field Sheets and Monitoring Well Photograph Summary.)

Color, odor, and turbidity observations were recorded on well specific field sheets. The well specific field sheets also list the measured depth to water from the top of the PVC pipe, mean sea level groundwater elevation, the length of time spent purging and the approximate gallons of groundwater purged from each monitoring well/piezometer prior to taking the groundwater sample. (See Well Specific Field Sheets.)

Purged groundwater from the monitoring wells and piezometers was collected in 5-gallon buckets. The purged groundwater was placed into the sump in the treatment building located at the former zinc shop site for treatment.

Unfiltered groundwater samples collected from the monitoring wells and zinc shop sump were submitted for laboratory hexavalent chromium analysis. Unfiltered groundwater from the zinc shop sump was also analyzed for cyanide and volatile organic compounds (VOCs). Unfiltered groundwater from monitoring well MW-116 was also analyzed for VOCs. Groundwater analytical methods are included with the laboratory report. (See Laboratory Report.) The laboratory analysis has been summarized in Table 1 and Table 2. (See Table 1 – Groundwater Analytical Summary, Better Brite – Chrome Shop and Table 2 - Groundwater Analytical Summary, Better Brite – Zinc Shop.)

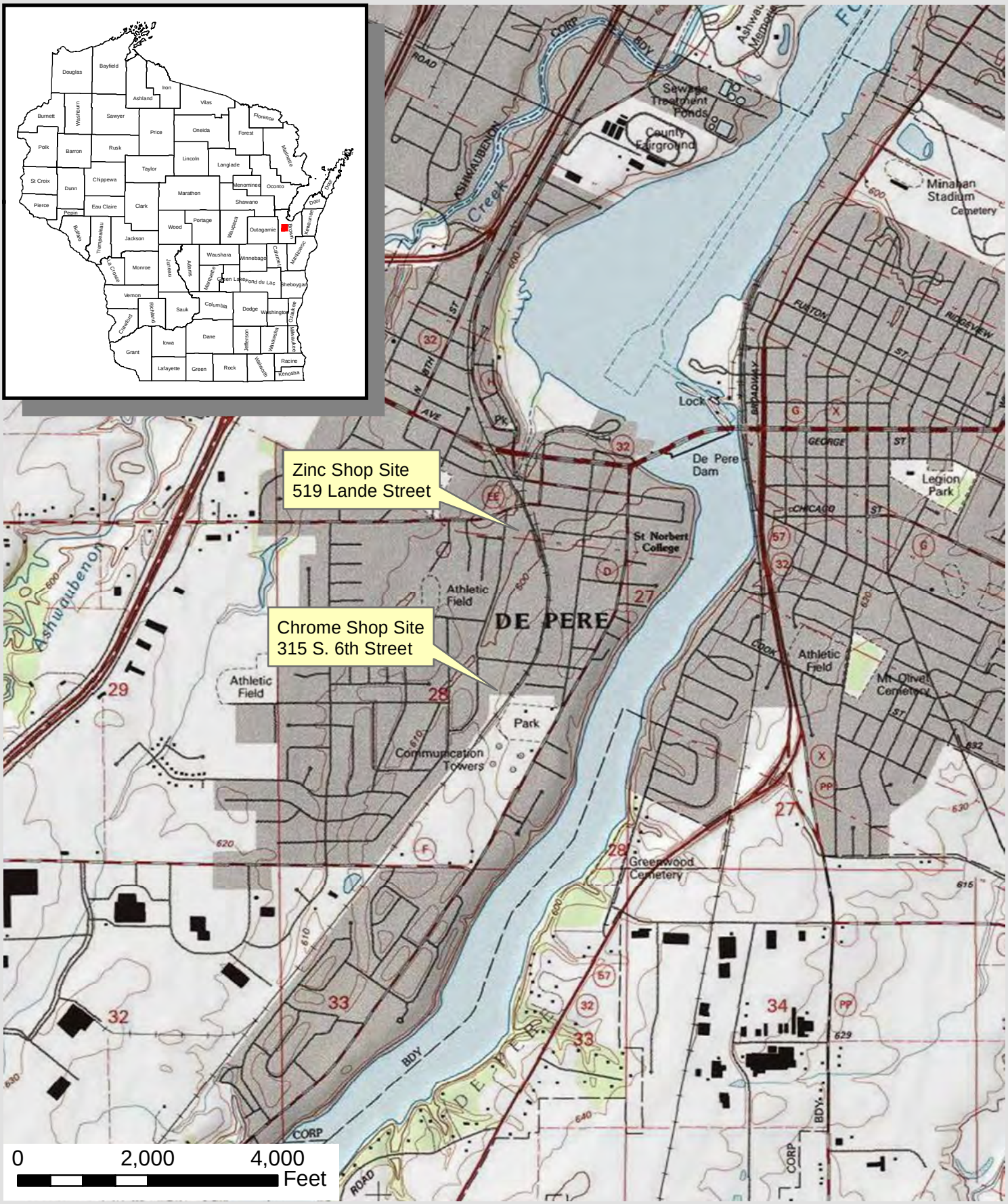
In general, results of the laboratory analysis were similar when compared to past sampling events. Some of the monitoring locations had results lower than recent events and a couple of the monitoring locations had results higher than recent events. Groundwater enforcement standard exceedances for hexavalent chromium remain at both locations. At the former chrome shop site, the hexavalent chromium groundwater enforcement standard exceedance remains in MW-116. Groundwater enforcement standard and preventive action limit exceedances of VOCs remain in MW-116. At the former zinc shop site, the hexavalent chromium groundwater enforcement standard was exceeded in monitoring points W-1, W-1A, MW-3R, MW-5, MW-6, MW-9, MW-10 and the sump. Groundwater preventive action limit exceedance for cyanide was found in the sump.

If you have any questions on the enclosed information, please contact me at 920/830-6141 or by email at bwayner@omnni.com.

Sincerely,
OMNNI Associates, Inc.

Brian D. Wayner, P.E.
Environmental Manager

Attachments



OMNI ASSOCIATES

ONE SYSTEMS DRIVE PHONE (920) 735-6900
APPLETON, WI 54914 FAX (920) 830-6100

N
W E
S

FORMER BETTER BRITE

SITE LOCATION MAP

315 S. 6TH STREET AND 519 LANDE STREET
CITY OF DEPERE, BROWN COUNTY, WISCONSIN

Project Manager:	BDW
Project Engineer:	BDW
Drawn By:	JCW
Checked By:	BDW
Date:	1/13/2014

SCALE: 1 " = 2,000 feet

PROJECT NO. **N1969A07**

FIGURE NO. **1**

F:\ENVIRO\N1969A07 (Better Brite State Lead)\GIS\SiteLocationmap.mxd

N
W E
S

Project Manager:	BDW	
Project Engineer:	BDW	
Drawn By:	JCW	
Checked By:	BDW	
Date:		11/5/2015

BETTER BRITE
MONITORING WELLS - CHROME SITE

CITY OF DE PERE
BROWN COUNTY, WISCONSIN

OMNI ASSOCIATES
ONE SYSTEMS DRIVE
APPLETON, WI 54914
PHONE (920) 735-6900
FAX (920) 830-6100

SCALE:
1 " = 50 '

PROJECT NO.
N1969A07

FIGURE NO.
2

F:\ENVIRON\1969A07 (Better Brite State Lead)\GIS\Basemap_Chrome.mxd

N
W E
S

Project Manager:	BDW		
Project Engineer:	BDW		
Drawn By:	JCW	Checked By:	BDW
		Date:	11/5/2015

BETTER BRITE

MONITORING WELLS - ZINC SITE

CITY OF DE PERE
BROWN COUNTY, WISCONSIN

OMNI ASSOCIATES
ONE SYSTEMS DRIVE APPLETON, WI 54914
PHONE (920) 735-6900
FAX (920) 830-6100

SCALE:
1 " = 50 '

PROJECT NO.
N1969A07

FIGURE NO.
3

F:\ENVIRON\1969A07 (Better Brite State Lead)\GIS\Basemap_Zinc.mxd

Well Specific Field Sheets

Facility Name: Former Better Brite - Chrome Shop
Date: June 13, 2018
Weather Conditions: Sunny, 80°
Person(s) Sampling: Kim Kennedy
Sampling Equipment: Dedicated bailers, Solonist 101 water level meter.

Well Name	MW101	MW104A	MW106	MW106A	MW107	MW107A	MW108	MW108A	MW110	MW110A	MW111	MW112	MW13	MW115	MW115A	MW116
Top of PVC Casing Elevation (MSL)			606.21	606.36	608.41	608.33	604.22	604.44	603.05	603.31	600.76	600.61	611.08	601.04	601.01	604.28
Depth to Bottom of Well (ft)		18.30	14.65	32.09		39.33	15.82	33.27	14.76	23.80	14.38	15.86	15.08	14.48	23.45	18.88
Water Elevation (MSL)	–	–	–	–	–	–	–	–	–	–	596.10	–	–	597.47	590.23	600.52
Measured Depth to Water (ft)	–	–	–	–	–	–	–	–	–	–	4.66	–	–	3.57	10.78	3.76
Time Purging Begun	–	–	–	–	–	–	–	–	–	–	1:08 PM	–	–	2:30 PM	2:10 PM	1:35 PM
Time Purging Completed	–	–	–	–	–	–	–	–	–	–	1:16 PM	–	–	2:39 PM	2:20 PM	1:45 PM
Amount Purged (gal)	–	–	–	–	–	–	–	–	–	–	6.3	–	–	7.0	5.0	9.8
Purged Dry? (Y/N)	–	–	–	–	–	–	–	–	–	–	N	–	–	Y	Y	N
Color (Y/N)	–	–	–	–	–	–	–	–	–	–	N	–	–	N	N	Yellow
Odor (Y/N)	–	–	–	–	–	–	–	–	–	–	N	–	–	Y	Y	N
Turbidity (Y/N)	–	–	–	–	–	–	–	–	–	–	Y	–	–	Y	Y	N
Time Sample Withdrawn	–	–	–	–	–	–	–	–	–	–	1:16 PM	–	–	2:39 PM	2:20 PM	1:45 PM
Well secured? (Y/N)	–	–	–	–	–	–	–	–	–	–	Y	–	–	Y	Y	Y
Cover Condition	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	One bolt snapped off. Cover in good condition.	Cover in good condition. Both bolts secure.	Concrete surround moves. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.

Purge 2" Well = (Depth to Bottom of Well - Measured Depth to Water) x 0.163 x 4

Well Specific Field Sheets

Facility Name: Former Better Brite - Zinc Shop
Date: June 12 and 13, 2018
Weather Conditions: Sunny, 80°
Person(s) Sampling: Kim Kennedy
Sampling Equipment: Dedicated bailers, Solonist 101 water level meter, perastaltic pump for W-1, W-1A, MW2.

Well Name	**W-1** (1,2,4)	**W-1A** (1,2,4)	**MW2** (2,4)	**MW3R**	**MW5**	**MW5A**	**MW6** (4)	**MW6A** (4)	**MW7**	**MW7A**	**MW8**	**MW8A**	**MW9**	**MW10** (4)	**MW11**	**MW12**	**Zinc Sump** (3)
Top of PVC Casing Elevation (MSL)				602.88	600.81	600.81			600.60	600.51	598.18	598.59	601.66		602.41	599.65	603.99
Depth to Bottom of Well (ft)	19.7	31.55	17.65	16.73	15.31	29.72	18.43		15.86	26.73	11.41	21.73	16.32	14.78	15.62	10.04	20.40
Water Elevation (MSL)	–	–	–	594.40	592.69	–	–	–	–	–	–	–	594.51	–	–	–	–
Measured Depth to Water (ft)	14.83	16.05	9.38	8.48	8.12	–	11.20	–	–	–	–	–	7.15	7.95	–	–	18.11
Time Purging Begun	Grab Sample (3)	Grab Sample (3)	Grab Sample (3)	12:30 PM	2:42 PM	–	12:35 PM	–	–	–	–	–	10:05 AM	2:07 PM	–	–	–
Time Purging Completed				12:37 PM	2:51 PM	–	12:43 PM	–	–	–	–	–	10:20 AM	2:14 PM	–	–	–
Amount Purged (gal)				5.4	4.7	–	3.0	–	–	–	–	–	6.0	4.5	–	–	–
Purged Dry? (Y/N)				N	N	–	N	–	–	–	–	–	N	Y	–	–	–
Color (Y/N)	N	Yellow	N	N	N	–	N	–	–	–	–	–	N	N	–	–	Yellow
Odor (Y/N)	N	N	N	N	N	–	N	–	–	–	–	–	N	N	–	–	N
Turbidity (Y/N)	Y	N	N	Y	Y	–	N	–	–	–	–	–	Y	Y	–	–	N
Time Sample Withdrawn	1:30 PM	1:13 PM	11:30	12:37 PM	2:51 PM	–	12:43 PM	–	–	–	–	–	10:20 AM	2:15 PM	–	–	10:58 AM
Well secured? (Y/N)	Y	Y	Y	Y	Y	–	Y	–	–	–	–	–	Y	Y	–	–	Y
Cover Condition	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Pro-top in good condition (some rust). Lock secure.	One bolt snapped off. Cover in good condition.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Hornet nest under locked cover. Pro-top in good condition (some rust).	Pro-top in good condition (some rust). Lock secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Very hard to remove cover. Seal under cover mostly torn off. Both bolts secure.	Cover is flush when bolted, but well and plug are raised when cover is off. Both bolts secure.	Cover in good condition. Both bolts secure.	Cover in good condition. Both bolts secure.	Gate overgrown with vegetation. Cover in good condition. Locks secure.

1 Depth to bottom of the well is suspect. Felt like soft bottom (sediment).

2 A standard bailer would not fit down the monitoirng well.

3 Sump was not running at time of sample collection.

4 Well height modified. New elevation unknown.

Purge 2" Well = (Depth to Bottom of Well - Measured Depth to Water) x 0.163 x 4

Table 1 Groundwater Analytical Summary, Better Brite - Chrome Shop

519 Lande Street, De Pere, WI BRRTS # 02-05-000030

Sample Location	Date	Detected Parameters (µg/L)																						
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	1,1,2-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.5	0.7	7	0.5	40	0.5	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	5	7	70	5	200	5	5	0.2
Chrome Sump (Abandoned)	Aug-94	**620000**	**694000**	NA	NA	NA																		
	Oct-94	**300200**	**297000**	NA	NA	NA																		
	Apr-98	**195000**	**192000**	NA	NA	NA																		
	Jul-98	**132000**		NA	NA	NA																		
French Drain	Aug-94	**25800**	**22000**	NA	NA	NA																		
	Oct-94	**32000**	**31700**	NA	NA	NA																		
	Apr-98	**1060**	**1010**	NA	NA	NA																		
	Jul-98	**336**	**312**	NA	NA	NA																		
B-101	Aug-94	<10	<3.4	NA	NA	NA																		
	Oct-94	<10		NA	NA	NA																		
MW-106	Aug-94	7	<2.8	NA	NA	NA																		
	DUP.	<10	<2.8	NA	NA	NA																		
	Oct-94	<10 J	<3.4 J	NA	NA	NA																		
	DUP.	<10 J	<3.4 J	NA	NA	NA																		
	Apr-98	<10	<5	NA	NA	NA																		
	DUP	<10	<5	NA	NA	NA																		
	May-00	<4.2	4	NA	NA	NA																		
	8/26/10	<3.9	5.4	NA	NA	NA																		
	6/16/11	<3.9	NA	NA	NA	NA																		
MW-106A	Aug-94	<10	<2.8	NA	NA	NA																		
	Oct-94	<10 J	<3.4 J	NA	NA	NA																		
	Apr-98	<10	<5	NA	NA	NA																		
	May-00	<4.2	9.4	NA	NA	NA																		
	8/26/10	<3.9	1.1"J"	NA	NA	NA																		
	6/16/11	<3.9	NA	NA	NA	NA																		
MW-106B (Abandoned)	Aug-94	<10	NA	NA	NA	NA																		
MW-107	Aug-94	<10	4.1 BJ	NA	NA	NA																		
	Oct-94	<10 J	<3.4	NA	NA	NA																		
	Apr-98	<10	<5	NA	NA	NA																		
	May-00	<4.2	4.2	NA	NA	NA																		
	Jun-01	NA	NA	**530**	50	NA																		
	Nov-01	<4.2	26	**3900**	NA	1800																		
	May-02	7.8	1.2	230	NA	2300																		
	DUP	**100**	1.9	**490**	NA	2800																		
	Nov-02	NA	NA	**8200**	140000	2300																		
	May-03	<4.2	1.6	**490**	95000	1700																		
	May-04	6.5	1.7	260	100000	NA																		
	May-05	<5.0	0.89	380	97000	NA																		
	8/26/10	<3.9	16.4	**4010**	16400	NA																		
	6/16/11	<3.9	NA	**3130**	83600	NA																		
MW-107A	Aug-94	<10	<2.8	NA	NA	NA																		
	Oct-94	<10 J	<3.4 J	NA	NA	NA																		
	Apr-98	<10	<5	NA	NA	NA																		
	May-00	<4.2	16	NA	NA	NA																		
	8/26/10	<3.9	23.2	NA	NA	NA																		
	6/16/11	<3.9	NA	NA	NA	NA																		
MW-107B (Abandoned)	Aug-94	<10	NA	NA	NA	NA																		

NA - Compound not analyzed
Underlined - Concentration exceeds PAL
Bolded - Concentration exceeds ES

Table 1 Groundwater Analytical Summary, Better Brite - Chrome Shop

519 Lande Street, De Pere, WI BRRTS # 02-05-000030

Sample Location	Date	Detected Parameters (µg/L)																						
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	1,1,2-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.5	0.7	7	0.5	40	0.5	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	5	7	70	5	200	5	5	0.2
MW-108	Aug-94	<10	<2.8	NA	NA	NA																		
	Oct-94	<10	<3.4 J	NA	NA	NA																		
	Apr-98	<10	NA	NA	NA	NA																		
	DUP	<10	<5	NA	NA	NA																		
	Jul-09	NA	16.0	NA	NA	NA																		
	8/26/10	<3.9	4.6"J"	NA	NA	NA																		
	6/16/11	<3.9	NA	NA	NA	NA																		
	12/5/13	<3.4	NA	NA	NA	NA																		
MW-108A	Aug-94	<10	3.0 BJ	NA	NA	NA																		
	Oct-94	<10	<3.4 J	NA	NA	NA																		
	Apr-98	<10	<5	NA	NA	NA																		
	May-00	<4.2	55	NA	NA	NA																		
	Jul-09	NA	NA	NA	NA	NA																		
	8/26/10	<3.9	1.3"J"	NA	NA	NA																		
	6/16/11	<3.9	1.3"J"	NA	NA	NA																		
	12/5/13	<8.6	NA	NA	NA	NA																		
MW-108B (Abandoned)	Aug-94	<10	NA	NA	NA	NA																		
MW-109 (Abandoned)	Aug-94	**6780**	**9570**	NA	NA	NA																		
	Oct-94	**2400**	**1980**	NA	NA	NA																		
	DUP.	**3100**	**1700**	NA	NA	NA																		
	Apr-98	**16500**	**18600**	NA	NA	NA																		
	Jul-98	**12200**	**11100**	NA	NA	NA																		
MW-109A (Abandoned)	Aug-94	<10	<2.8	NA	NA	NA																		
	Oct-94	<10	1.3 B	NA	NA	NA																		
	Apr-98	<10	<5	NA	NA	NA																		
	Jul-98	<10	7	NA	NA	NA																		
MW-109B (Abandoned)	Aug-94	<10	NA	NA	NA	NA																		
	Oct-94	<10	NA	NA	NA	NA																		
MW-110	Aug-94	<10	3.6 BJ	NA	NA	NA																		
	Oct-94	<10	<3.4 J	NA	NA	NA																		
	Apr-98	<10	<5	NA	NA	NA																		
	May-00	<4.2	37	NA	NA	NA																		
	May-04	<2.5	11	**3400**	230000	NA																		
	May-05	<5.0	0.89	82	70000	NA																		
	Oct-06	<6.8	1.8	NA	NA	NA																		
	8/21/07	NA	7.4	NA	NA	NA																		
	7/21/09	NA	5.3	NA	NA	NA																		
	8/26/10	<3.9	2.0 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.75		<0.57		<0.45	<0.9		<0.48	<0.18
	6/16/11	<3.9	NA	NA	NA	NA																		
	10/24/12	<3.9	NA	NA	NA	NA																		
	12/5/13	<3.4	NA	NA	NA	NA																		

NA - Compound not analyzed
Underlined - Concentration exceeds PAL
Bolded - Concentration exceeds ES

Table 1 Groundwater Analytical Summary, Better Brite - Chrome Shop
519 Lande Street, De Pere, WI BRRTS # 02-05-000030

Sample Location	Date	Detected Parameters (µg/L)																						
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	1,1,2-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.5	0.7	7	0.5	40	0.5	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	5	7	70	5	200	5	5	0.2
MW-110A	Aug-94	<10	<2.8	NA	NA	NA																		
	Oct-94	<10	<3.4 J	NA	NA	NA																		
	Apr-98	<10	<5	NA	NA	NA																		
	May-00	<4.2	25	NA	NA	NA																		
	Oct-06	<6.8	4.2	NA	NA	NA																		
	8/21/07	NA	1.9	NA	NA	NA																		
	7/21/09	NA	1.3	NA	NA	NA																		
	8/26/10	<3.9	1.8 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.75		<0.57		<0.45	<0.9		<0.48	<0.18
	6/16/11	<3.9	NA	NA	NA	NA																		
MW-111	Aug-94	<10	<3.4	NA	NA	NA																		
	DUP.	<10	<3.4	NA	NA	NA																		
	Oct-94	<10	<0.70	NA	NA	NA																		
	Apr-98	**226**	<5	NA	NA	NA																		
	Jul-98	22	27	NA	NA	NA																		
	Nov-98	<0.5	<0.5	NA	NA	NA																		
	May-00	<4.2	36	NA	NA	NA																		
	Nov-02	<4.2	43	**4400**	130000	2600																		
	DUP	<4.2	38	**3400**	100000	280																		
	May-03	5.2	33	**2700**	98000	1400																		
	May-04	50	**150**	**5000**	93000	NA																		
	May-05	**250**	**260**	200	87000	NA																		
	Nov-05	<5.0	39	**12000**	98000	NA																		
	DUP	<5.0	55	**21000**	96000	NA																		
	Oct-06	<6.8	16	NA	NA	NA																		
	8/21/07	NA	25	NA	NA	NA																		
	7/21/09	NA	23.6	NA	NA	NA																		
	8/26/10	<3.9	19.8	NA	NA	NA																		
	6/16/11	<3.9	NA	NA	NA	NA																		
	10/24/11	<3.9	NA	NA	NA	NA																		
	10/24/12	<3.9	NA	NA	NA	NA																		
	12/5/13	<3.4	NA	NA	NA	NA																		
	10/22/15	<3.9	NA	NA	NA	NA																		
	9/20/16	<51	NA	NA	NA	NA																		
	6/13/18	<130	NA	NA	NA	NA																		
MW-112	Oct-94	<10	<0.70	NA	NA	NA																		
	Nov-94	<10	<2.5	NA	NA	NA																		
	Apr-98	<10	<5	NA	NA	NA																		
	May-00	<4.2	4.1	NA	NA	NA																		
	8/26/10	<3.9	3.9	NA	NA	NA																		
	6/16/11	<3.9	NA	NA	NA	NA																		
MW-113	Aug-94	**140**	99.7	NA	NA	NA																		
	Oct-94	<10 J	8.6 B	NA	NA	NA																		
	May-95	43	20.3	NA	NA	NA																		
	Apr-98	<10	<5	NA	NA	NA																		
	Jul-98	<10	12	NA	NA	NA																		
	May-00	<4.2	22	NA	NA	NA																		
	8/26/10	<3.9	24.3	NA	NA	NA																		
	6/16/11	<3.9	NA	NA	NA	NA																		

NA - Compound not analyzed
Underlined - Concentration exceeds PAL
Bolded - Concentration exceeds ES

Table 1 Groundwater Analytical Summary, Better Brite - Chrome Shop

519 Lande Street, De Pere, WI BRRTS # 02-05-000030

Sample Location	Date	Detected Parameters (µg/L)																						
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	1,1,2-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.5	0.7	7	0.5	40	0.5	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	5	7	70	5	200	5	5	0.2
MW-114 (Abandoned)	Mar-95	<10 J	<2.9	NA	NA	NA																		
	DUP.	<10 J	<2.9	NA	NA	NA																		
	May-95	<10 J	<1.0	NA	NA	NA																		
	DUP.	<10 J	<1.0	NA	NA	NA																		
	Apr-98	<10	<5	NA	NA	NA																		
MW-115	May-00	<4.2	6.0	NA	NA	NA																		
	Jun-01	<4.2	<0.52	160	92	NA																		
	Nov-01	<4.2	12	**1100**	NA	3000																		
	DUP	<4.2	10	**3300**	NA	3300																		
	May-02	<4.2	38	**19000**	NA	2800																		
	Nov-02	<4.2	38	**7000**	130000	3100																		
	May-03	<4.2	**260**	**9700**	90000	1400																		
	DUP	<4.2	56	**3600**	89000	1400																		
	May-04	<2.5	1.3	130	34000	NA																		
	May-05	<5.0	1.1	**320**	44000	NA																		
	Oct-06	<6.8	2.6	NA	NA	NA																		
	8/21/07	NA	10	NA	NA	NA																		
	7/21/09	NA	5.8	NA	NA	NA																		
	8/26/10	<3.9	1.6 J	**3530**	24800	NA																		
	6/16/11	<3.9	NA	**4460**	10000	NA																		
	10/24/11	<3.9	NA	NA	NA	NA																		
	10/24/12	<3.9	NA	NA	NA	NA																		
	12/5/13	<5.7	NA	NA	NA	NA																		
	10/16/14	<3.9	NA	NA	NA	NA																		
	10/22/15	<3.9	NA	NA	NA	NA																		
	9/20/16	<26	NA	NA	NA	NA																		
	6/13/18	<130	NA	NA	NA	NA																		
MW-115A	May-00	<4.2	12.0	NA	NA	NA																		
	Oct-06	<6.8	4.6	NA	NA	NA																		
	8/21/07	NA	2.7	NA	NA	NA																		
	7/21/09	NA	2.9	NA	NA	NA																		
	8/26/10	<3.9	1.4 J	NA	NA	NA																		
	6/16/11	<3.9	NA	NA	NA	NA																		
	10/24/12	<3.9	NA	NA	NA	NA																		
	12/5/13	<8.6	NA	NA	NA	NA																		
	10/16/14	<3.9	NA	NA	NA	NA																		
	10/22/15	<3.9	NA	NA	NA	NA																		
	9/20/16	<26	NA	NA	NA	NA																		
	6/13/18	<130	NA	NA	NA	NA																		

NA - Compound not analyzed
Underlined - Concentration exceeds PAL
Bolded - Concentration exceeds ES

Table 1 Groundwater Analytical Summary, Better Brite - Chrome Shop

519 Lande Street, De Pere, WI BRRTS # 02-05-000030

Sample Location	Date	Detected Parameters (µg/L)																					
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	1,1,2-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.5	0.7	7	0.5	40	0.5	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	5	7	70	5	200	5	5	0.2
MW-116	May-00	**1600**	**470**	NA	NA	NA																		
	DUP.	**1500**	**460**	NA	NA	NA																		
	Nov-00	37	23	NA	NA	NA																		
	DUP	46	24	NA	NA	NA																		
	Jun-01	**4400**	**2300**	**840**	2100	NA																		
	Nov-01	**3300**	**2100**	**690**	NA	2400																		
	May-02	**12000**	**7300**	**530**	NA	2500																		
	Nov-02	**5100**	**3200**	**720**	20000	2900																		
	May-03	**8900**	**6000**	**410**	**2700000**	1700																		
	May-04	**28000**	**22000**	43	19000	NA																		
	DUP	**28000**	**22000**	280	24000	NA																		
	May-05	**52000**	**52000**	**950**	**1900000**	NA																		
	DUP	**54000**	**53000**	**710**	**1800000**	NA																		
	Nov-05	**50000**	**61000**	**840**	**1800000**	NA																		
	Oct-06	**39000**	**36000**	**900**	**1800000**	NA																		
	DUP	**42000**	**36000**	NA	NA	NA																		
	8/21/07	NA	**39,000**	NA	NA	NA																		
	7/21/09	NA	**25,500**	NA	NA	NA																		
	8/26/10	**21,300**	**19,200**	**478**	**1330000**	NA	**162**	2.4 J	0.43 J	NA	10.3	<0.46	<2.2	NA	NA	30.9		**22.1**		3.2	76.9		1.1	**0.21 J**
	8/26/10 LF	**20,200**	**17,700**	NA	NA	NA																		
	4/25/11	**34,600**	NA	NA	**1030000**	NA																		
	6/16/11	**13,800**	NA	240	**1660000**	NA	3.4 "J"	NA	NA	NA	NA	NA	NA	NA	NA	28.1		**25.9**		1.2	84.1		2.2	<0.18
	10/24/11	**18,300**	NA	NA	NA	NA																		
	10/24/12	**22,300**	NA	NA	NA	NA																		
	12/5/13	**17,600**	NA	NA	NA	NA																		
	DUP	**17,500**	NA	NA	NA	NA																		
	10/16/14	**13,300**	NA	NA	NA	NA																		
	10/22/15	**16,500**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	43.5	0.32 J	**40.6**	1.5	1.7	145	0.46 J	1.6	**0.27 J**
	9/20/16	**16,100**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.8	<0.34	**34.8**	1.2 J	1.4 J	135	<0.39	1.5 J	<0.35
	6/13/18	**12,100**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.4	<0.34	**37.4**	0.93 J	1.1 J	125	<0.39	1.5 J	<0.35
CSTW1	4/25/11	<3.9	NA	NA	**1,180,000**	NA																		
CSTW2	4/25/11	<3.9	NA	NA	**2,840,000**	NA																		
CSTW3	4/25/11	**1,000**	NA	NA	**2,010,000**	NA																		
CSTW4	4/25/11	<3.9	NA	NA	**426,000**	NA																		
CSTW5	4/25/11	4.9 "J"	NA	NA	**592,000**	NA																		
CSTW6	4/25/11	<3.9	NA	NA	**608000**	NA																		

NA - Compound not analyzed
Underlined - Concentration exceeds PAL
Bolded - Concentration exceeds ES

Table 2 Groundwater Analytical Summary, Better Brite - Zinc Shop
315 6th Street, De Pere, WI BRRTS # 02-05-000031

Sample Location	Date	Detected Parameters (µg/L)																			
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,1-DCE	PCE	1,1,1-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.7	0.5	40	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	7	5	200	5	0.2
W-1	10/22/15	**10,300**	NA	NA	NA	NA	**(Grab Sample, no purging)**														
	9/19/16	**9600**	NA	NA	NA	NA	**(Grab Sample, previously purged)**														
	6/12/18	**6600**	NA	NA	NA	NA	**(Grab Sample, previously purged)**														
W-1A	10/22/15	**3,300**	NA	NA	NA	NA	**(Grab Sample, no purging)**														
	9/19/16	**2800**	NA	NA	NA	NA	**(Grab Sample, previously purged)**														
	6/12/18	**2700**	NA	NA	NA	NA	**(Grab Sample, previously purged)**														
PF-MW-2	May-00	<4.2	7.6	NA	NA	NA															
	Jun-01	<4.2	7.1	NA	NA	NA															
	Nov-01	<4.2	10	NA	NA	NA															
	May-02	<4.2	<0.52	NA	NA	NA															
	Nov-02	<4.2	2.4	NA	NA	NA															
	May-03	<4.2	49	NA	NA	NA															
	10/22/15	<3.9	NA	NA	NA	NA	**(Grab Sample, no purging)**														
	9/19/16	<5.1	NA	NA	NA	NA	**(Grab Sample, previously purged)**														
	6/13/18	<26	NA	NA	NA	NA	**(Grab Sample, previously purged)**														
MW-3/MW3R	May-00	**230**	**330**	NA	NA	NA															
	Nov-00	50	**130**	NA	NA	NA															
	Jun-01	**3500**	**2200**	NA	NA	NA															
	Nov-01	38	**1700**	NA	NA	NA															
	May-02	<4.2	**220**	NA	NA	NA															
	Nov-02	<4.2	18	NA	NA	NA															
	May-03	**110**	55	NA	NA	NA															
	Dup	83	49	NA	NA	NA															
	May-04	89	**190**	NA	NA	NA															
	May-05	<5.0	*17*	NA	NA	NA															
	7/21/09	NA	**717**	NA	NA	NA															
	8/24/10	**660**	**552**	NA	NA	NA															
	6/28/11	**2800**	NA	NA	NA	NA															
	10/24/11	**2200**	NA	NA	NA	NA															
	10/23/12	**560**	NA	NA	NA	NA															
	12/5/13	**140**	NA	NA	NA	NA															
	10/16/14	**190**	NA	NA	NA	NA															
	10/22/15	**100**	NA	NA	NA	NA															
	9/19/16	**380**	NA	NA	NA	NA															
	6/12/18	<130	NA	NA	NA	NA															

NA - Compound not analyzed
Underlined - Concentration exceeds preventive action limit
Bolded - Concentration exceeds enforcement standard

Table 2 Groundwater Analytical Summary, Better Brite - Zinc Shop
315 6th Street, De Pere, WI BRRTS # 02-05-000031

Sample Location	Date	Detected Parameters (µg/L)																			
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,1-DCE	PCE	1,1,1-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.7	0.5	40	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	7	5	200	5	0.2
MW-4 (Abandoned)	Aug-94	<10	<3.4	NA	NA	NA															
	DUP	<10	<3.4	NA	NA	NA															
	Oct-94	<10 J	<3.4 J	NA	NA	NA															
	DUP	<10 J	<3.4 J	NA	NA	NA															
	Apr-98	<10	<5	NA	NA	NA															
	May-00	<4.2	4.6	NA	NA	NA															
	Nov-00	<4.2	2.4	NA	NA	NA															
	Jun-01	<4.2	12	NA	NA	NA															
	Nov-01	<4.2	7.4	NA	NA	NA															
	May-02	<4.2	1.4	NA	NA	NA															
	Nov-02	<4.2	15	NA	NA	NA															
	May-03	<4.2	27	NA	NA	NA															
	May-04	<2.5	1.8	NA	NA	NA															
	May-05	<5.0	9	NA	NA	NA															
	Nov-05	<5.0	12	NA	NA	NA															
MW-4A (Abandoned)	Aug-94	<10	<3.4	NA	NA	NA															
	Oct-94	<10 J	6.0 B	NA	NA	NA															
	Apr-98	<10	<5	NA	NA	NA															
	May-00	<4.2	8.7	NA	NA	NA															
	Nov-00	<4.2	3.7	NA	NA	NA															
	Jun-01	<4.2	3.7	NA	NA	NA															
	Nov-01	<4.2	13	NA	NA	NA															
	May-02	<4.2	38	NA	NA	NA															
	Nov-02	<4.2	28	NA	NA	NA															
	May-03	<4.2	32	NA	NA	NA															
	May-04	<2.5	0.75	NA	NA	NA															
	May-05	<5.0	2	NA	NA	NA															
	Nov-05	<5.0	2.8	NA	NA	NA															
MW-4B (Abandoned)	Oct-94	<10	<0.70	NA	NA	NA															
	Nov-94	<10	<2.5	NA	NA	NA															

NA - Compound not analyzed
Underlined - Concentration exceeds preventive action limit
Bolded - Concentration exceeds enforcement standard

Table 2 Groundwater Analytical Summary, Better Brite - Zinc Shop
315 6th Street, De Pere, WI BRRTS # 02-05-000031

Sample Location	Date	Detected Parameters (µg/L)																			
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,1-DCE	PCE	1,1,1-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.7	0.5	40	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	7	5	200	5	0.2
MW-5	Aug-94	**1590**	**827**	NA	NA	NA															
	Oct-94	**460 J**	**299 J**	NA	NA	NA															
	DUP	**510 J**	**763 J**	NA	NA	NA															
	Apr-98	**212**	**631**	NA	NA	NA															
	DUP	**207**	**667**	NA	NA	NA															
	Jul-98	**1420**	**1230**	NA	NA	NA															
	May-00	**120**	**190**	NA	NA	NA															
	Nov-00	<4.2	6.6	NA	NA	NA															
	Jun-01	**590**	**450**	NA	NA	NA															
	Nov-02	**2200**	**2200**	NA	NA	NA															
	DUP	**2200**	**2200**	NA	NA	NA															
	May-03	**4900**	**3600**	NA	NA	NA															
	May-04	**4700**	**3100**	NA	NA	NA															
	May-05	**4000**	**3200**	NA	NA	NA															
	Oct-06	**4900**	**4000**	NA	NA	NA															
	8/21/07	NA	**2,700**	NA	NA	NA															
	7/21/09	NA	**2,210**	NA	NA	NA															
	8/24/10	**1,300**	**1,180**	NA	NA	NA															
	6/28/11	**970**	NA	NA	NA	NA															
	10/24/11	**1,100**	NA	NA	NA	NA															
	10/23/12	**970**	NA	NA	NA	NA															
	12/5/13	**1000**	NA	NA	NA	NA															
	10/22/15	**330**	NA	NA	NA	NA															
	9/19/16	**460**	NA	NA	NA	NA															
	6/12/18	**180**	NA	NA	NA	NA															
MW-5A	Aug-94	<10	<3.4	NA	NA	NA															
	Oct-94	<10	<3.4 J	NA	NA	NA															
	Apr-98	<10	<5	NA	NA	NA															
	May-00	<4.2	6.5	NA	NA	NA															
	Nov-00	**340**	**380**	NA	NA	NA															
	Jun-01	<4.2	3.9	NA	NA	NA															
	Nov-02	<4.2	34	NA	NA	NA															
	May-03	<4.2	22	NA	NA	NA															
	DUP	<4.2	49	NA	NA	NA															
	May-04	<2.5	2.7	NA	NA	NA															
	May-05	<5.0	7.6	NA	NA	NA															
	8/24/10	<3.9	2.5"J"	NA	NA	NA															
	6/28/11	<3.9	NA	NA	NA	NA															
MW-5B (Abandoned)	Aug-94	NA	NA	NA	NA	NA															
	Oct-94	<10	<5	NA	NA	NA															

NA - Compound not analyzed
Underlined - Concentration exceeds preventive action limit
Bolded - Concentration exceeds enforcement standard

Table 2 Groundwater Analytical Summary, Better Brite - Zinc Shop
315 6th Street, De Pere, WI BRRTS # 02-05-000031

Sample Location	Date	Detected Parameters (µg/L)																			
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,1-DCE	PCE	1,1,1-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.7	0.5	40	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	7	5	200	5	0.2
MW-6	Aug-94	**15900**	**39200**	NA	NA	NA															
	Oct-94	**47000**	**41,900 J**	NA	NA	NA															
	Apr-98	**7650**	**4560**	NA	NA	NA															
	May-00	**23000**	**26000**	NA	NA	NA															
	Nov-00	**26000**	**23000**	NA	NA	NA															
	Jun-01	**14000**	**15000**	NA	NA	NA															
	Nov-01	**25000**	**29000**	NA	NA	NA															
	May-02	**13000**	**13000**	NA	NA	NA															
	Nov-02	**21000**	**22000**	NA	NA	NA															
	May-03	**11000**	**9300**	NA	NA	NA															
	May-04	**13000**	**15000**	NA	NA	NA															
	May-05	**12000**	**11000**	NA	NA	NA															
	DUP	**12000**	**11000**	NA	NA	NA															
	Oct-06	**12000**	**12000**	NA	NA	NA															
	DUP	**14000**	**12000**	NA	NA	NA															
	8/21/07	NA	**8,900**	NA	NA	NA															
	7/21/09	NA	**10,400**	NA	NA	NA															
	8/24/10	**8400**	**7,540**	NA	NA	NA															
	6/28/11	**5200**	NA	NA	NA	NA															
	10/24/11	**6,500**	NA	NA	NA	NA															
	10/23/12	**7,300**	NA	NA	NA	NA															
	12/5/13	**6,100**	NA	NA	NA	NA															
	10/16/14	**3,300**	NA	NA	NA	NA															
	10/22/15	**360**	NA	NA	NA	NA															
	9/20/16	**3500**	NA	NA	NA	NA															
	6/13/18	**1400**	NA	NA	NA	NA															
MW-6A	Aug-94	<10	4.9 B	NA	NA	NA															
	Oct-94	<10	<3.4 J	NA	NA	NA															
	Apr-98	<10	<5	NA	NA	NA															
	May-00	6.6	22	NA	NA	NA															
	Nov-00	<4.2	13	NA	NA	NA															
	6/01	<4.2	11	NA	NA	NA															
	Nov-01	<4.2	7.1	NA	NA	NA															
	May-02	<4.2	51	NA	NA	NA															
	Nov-02	<4.2	83	NA	NA	NA															
	May-03	<4.2	59	NA	NA	NA															
	May-04	<2.5	3.4	NA	NA	NA															
	May-05	<5.0	*12*	NA	NA	NA															
	8/24/10	<3.9	1.7"J"	NA	NA	NA															
	6/28/11	<3.9	NA	NA	NA	NA															
MW-6B (Abandoned)	Aug-94	<10	NA	NA	NA	NA															

NA - Compound not analyzed
Underlined - Concentration exceeds preventive action limit
Bolded - Concentration exceeds enforcement standard

Table 2 Groundwater Analytical Summary, Better Brite - Zinc Shop

315 6th Street, De Pere, WI BRRTS # 02-05-000031

Sample Location	Date	Detected Parameters (µg/L)																			
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,1-DCE	PCE	1,1,1-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.7	0.5	40	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	7	5	200	5	0.2
MW-7	Aug-94	<10	6.6 BJ	NA	NA	NA															
	DUP.	<10	<2.8	NA	NA	NA															
	Oct-94	<10 J	36.4 J	NA	NA	NA															
	Apr-98	<10	<5	NA	NA	NA															
	DUP	<10	<5	NA	NA	NA															
	May-00	<4.2	3.9	NA	NA	NA															
	Nov-00	<4.2	1.1	NA	NA	NA															
	Jun-01	<4.2	2.7	NA	NA	NA															
	Nov-01	<4.2	9.7	NA	NA	NA															
	May-02	<4.2	3.2	NA	NA	NA															
	Nov-02	<4.2	1.9	NA	NA	NA															
	May-03	<4.2	0.91	NA	NA	NA															
	May-04	<2.5	0.88	NA	NA	NA															
	May-05	<5.0	*32*	NA	NA	NA															
	8/21/07	NA	4.4	NA	NA	NA															
	7/21/09	NA	9	NA	NA	NA															
	8/24/10	<3.9	3.7"J"	NA	NA	NA															
	6/28/11	<3.9	NA	NA	NA	NA															
MW-7A	Aug-94	<10	<2.8	NA	NA	NA															
	Oct-94	<10 J	<3.4 J	NA	NA	NA															
	Apr-98	<10	<5	NA	NA	NA															
	May-00	<4.2	4.7	NA	NA	NA															
	Nov-00	7.9	5	NA	NA	NA															
	Jun-01	<4.2	2.5	NA	NA	NA															
	Nov-01	<4.2	<.52	NA	NA	NA															
	May-02	<4.2	1.4	NA	NA	NA															
	Nov-02	<4.2	0.98	NA	NA	NA															
	May-03	<4.2	0.85	NA	NA	NA															
	May-04	3.9	2.2	NA	NA	NA															
	May-05	<5.0	*0.65*	NA	NA	NA															
	8/24/10	<3.9	1.6"J"	NA	NA	NA															
	6/28/11	<3.9	NA	NA	NA	NA															
MW-8	Oct-94	<10	<0.70	NA	NA	NA															
	Nov-94	<10	<2.5	NA	NA	NA															
	DUP.	<10	<2.5	NA	NA	NA															
	Apr-98	<10	<5	NA	NA	NA															
	May-00	<4.2	15	NA	NA	NA															
	Nov-00	13	13	NA	NA	NA															
	Jun-01	5.3	2	NA	NA	NA															
	Nov-01	<4.2	2.3	NA	NA	NA															
	DUP	<4.2	6.7	NA	NA	NA															
	May-02	<4.2	4	NA	NA	NA															
	Nov-02	<4.2	23	NA	NA	NA															
	May-03	<4.2	2.2	NA	NA	NA															
	May-04	<2.5	1.7	NA	NA	NA															
	May-05	<5.0	1.1	NA	NA	NA															
	8/21/07	NA	2.3	NA	NA	NA															
	8/24/10	<3.9	96	NA	NA	NA															
	6/28/11	<3.9	NA	NA	NA	NA															

NA - Compound not analyzed

Underlined - Concentration exceeds preventive action limit

Bolded - Concentration exceeds enforcement standard

Table 2 Groundwater Analytical Summary, Better Brite - Zinc Shop
315 6th Street, De Pere, WI BRRTS # 02-05-000031

Sample Location	Date	Detected Parameters (µg/L)																			
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,1-DCE	PCE	1,1,1-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.7	0.5	40	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	7	5	200	5	0.2
MW-8A	Oct-94	<10	<0.70	NA	NA	NA															
	Nov-94	<10	<2.5	NA	NA	NA															
	Apr-98	<10	<5	NA	NA	NA															
	May-00	<4.2	16	NA	NA	NA															
	Nov-00	<4.2	34	NA	NA	NA															
	Jun-01	<4.2	3.7	NA	NA	NA															
	Nov-01	<4.2	14	NA	NA	NA															
	May-02	<4.2	2.5	NA	NA	NA															
	DUP	<4.2	11	NA	NA	NA															
	Nov-02	<4.2	20	NA	NA	NA															
	May-03	<4.2	13	NA	NA	NA															
	May-04	3.9	0.59	NA	NA	NA															
	May-05	<5.0	2.6	NA	NA	NA															
	8/21/07	NA	0.92	NA	NA	NA															
	8/24/10	<3.9	1.7"J"	NA	NA	NA															
	6/28/11	<3.9	NA	NA	NA	NA															
MW-9	Aug-94	**400**	**697**	NA	NA	NA															
	Oct-94	**470 J**	**442 J**	NA	NA	NA															
	Apr-98	**209**	<5	NA	NA	NA															
	Jul-98	60	75	NA	NA	NA															
	Nov-00	13	15	NA	NA	NA															
	DUP	19	51	NA	NA	NA															
	Jun-01	28	**180**	NA	NA	NA															
	Nov-01	35	76	NA	NA	NA															
	May-02	75	72	NA	NA	NA															
	Nov-02	67	80	NA	NA	NA															
	May-03	32	53	NA	NA	NA															
	May-04	54	63	NA	NA	NA															
	Dup	50	46	NA	NA	NA															
	May-05	28	41	NA	NA	NA															
	Oct-06	17	34	NA	NA	NA															
	8/21/07	NA	52	NA	NA	NA															
	7/21/09	NA	33.3	NA	NA	NA															
	8/24/10	*27*	30.3	NA	NA	NA															
	6/28/11	*14*	NA	NA	NA	NA															
	10/23/12	*18 J*	NA	NA	NA	NA															
	12/5/13	<3.4	NA	NA	NA	NA															
	10/16/14	<3.9	NA	NA	NA	NA															
	10/22/15	<3.9	NA	NA	NA	NA															
	9/19/16	<26	NA	NA	NA	NA															
	6/12/18	<130	NA	NA	NA	NA															

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Table 2 Groundwater Analytical Summary, Better Brite - Zinc Shop
315 6th Street, De Pere, WI BRRTS # 02-05-000031

Sample Location	Date	Detected Parameters (µg/L)																			
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,1-DCE	PCE	1,1,1-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.7	0.5	40	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	7	5	200	5	0.2
MW-10	Aug-94	**60300**	**53100**	NA	NA	NA															
	Oct-94	**60800 J**	**43,500 J**	NA	NA	NA															
	Nov-00	**20000**	**18000**	NA	NA	NA															
	Jun-01	<4.2	20	NA	NA	NA															
	Nov-02	**35000**	**38000**	NA	NA	NA															
	May-03	**38000**	**37000**	NA	NA	NA															
	May-04	**25000**	**22000**	NA	NA	NA															
	Nov-05	**13000**	**13000**	NA	NA	NA															
	Oct-06	**14000**	**13000**	NA	NA	NA															
	8/21/07	NA	**17,000**	NA	NA	NA															
	10/22/15	**10,300**	NA	NA	NA	NA															
	9/19/16	**9,800**	NA	NA	NA	NA															
	6/12/18	**3,200**	NA	NA	NA	NA															
MW-11	May-95	<10	<1.0	NA	NA	NA															
	Apr-98	<10	<5	NA	NA	NA															
	May-00	<4.2	7.0	NA	NA	NA															
	Nov-00	<4.2	4.1	NA	NA	NA															
	Jun-01	<4.2	3.6	NA	NA	NA															
	Nov-01	<4.2	7.8	NA	NA	NA															
	May-02	17	<20	NA	NA	NA															
	Nov-02	<4.2	27	NA	NA	NA															
	May-03	<4.2	12	NA	NA	NA															
	May-04	<2.5	2.3	NA	NA	NA															
	May-05	<5.0	2.8	NA	NA	NA															
	8/24/10	<3.9	8.9	NA	NA	NA															
	6/28/11	<3.9	NA	NA	NA	NA															
MW-12	Mar-95	<10 J	<2.9	NA	NA	NA															
	May-95	<10	<1.0	NA	NA	NA															
	Apr-98	<10	<5	NA	NA	NA															
	May-00	<4.2	4.8	NA	NA	NA															
	Nov-00	<4.2	6	NA	NA	NA															
	jun-01	<4.2	6.4	NA	NA	NA															
	Nov-01	<4.2	<0.52	NA	NA	NA															
	May-02	<4.2	4.8	NA	NA	NA															
	Nov-02	<4.2	1.3	NA	NA	NA															
	May-03	<4.2	1.3	NA	NA	NA															
	May-04	<2.5	1.8	NA	NA	NA															
	May-05	<5.0	8.1	NA	NA	NA															
	8/24/10	<3.9	6.5	NA	NA	NA															
	6/28/11	<3.9	NA	NA	NA	NA															
MW-13	Mar-95	<10 J	<2.9	NA	NA	NA															
	May-95	<10	<1.0	NA	NA	NA															

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Bolded - Concentration exceeds enforcement standard

Table 2 Groundwater Analytical Summary, Better Brite - Zinc Shop

315 6th Street, De Pere, WI BRRTS # 02-05-000031

Sample Location	Date	Detected Parameters (µg/L)																			
		Hexavalent Chromium	Chromium	Iron	Sulfate	Sulfide	Antimony	Arsenic	Cadmium	Cyanide	Nickel	Silver	Thallium	Cobalt	Vanadium	1,1-DCA	1,1-DCE	PCE	1,1,1-TCA	TCE	VC
NR140 Preventive Action Limit		10	10	150	125,000	NO PAL	1.2	1	0.5	40	20	10	0.4	8	6	85	0.7	0.5	40	0.5	0.02
NR140 Enforcement Standard		100	100	300	250,000	NO ES	6	10	5	200	100	50	2	40	30	850	7	5	200	5	0.2
Zinc Sump	Aug-94	**89000**	**209000**	NA	NA	NA															
	Oct-94	**144900**	**277000**	NA	NA	NA															
	Apr-98	**66000**	**38300**	NA	NA	NA															
	Jul-98	**131000**	**131000**	NA	NA	NA															
	May-00	**1800**	**1700**	NA	NA	NA															
	Nov-00	**41000**	**27000**	NA	NA	NA															
	Jun-01	**40000**	**110000**	NA	NA	NA															
	Nov-01	**23000**	**56000**	NA	NA	NA															
	May-02	**43000**	**14000**	NA	NA	NA															
	Nov-03	**23000**	**30000**	NA	NA	NA															
	May-03	**8400**	**6800**	NA	NA	NA															
	May-04	**24000**	**6400**	NA	NA	NA															
	May-05	**15000**	**13000**	NA	NA	NA															
	Oct-06	**7500**	**5900**	NA	NA	NA															
	8/21/07	NA	**20,000**	NA	NA	NA															
	7/21/09	NA	**14,800**	NA	NA	NA															
	8/24/10	**12,100**	**11,300**	NA	NA	NA	**90.6**	NA	NA	40	NA	NA	<2.2	2.5 J	4.7 J	<0.75	<0.57	<0.45	1.5	<0.48	<0.18
	6/28/11	**4100**	NA	NA	NA	NA	**6.6**	NA	NA	**250**	NA	NA	<2.2	2.5 J	4.7 J	1.2	2.8	*0.84*	38.9	<0.48	<0.18
	10/24/11	**3,700**	NA	NA	NA	NA	**6.0 "J"**	NA	NA	**220**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/23/12	**110**	NA	NA	NA	NA	NA	NA	NA	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5/13	**5,100**	NA	NA	NA	NA	NA	NA	NA	**340**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/16/14	**9,600**	NA	NA	NA	NA	NA	NA	NA	190	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/22/15	**10,200**	NA	NA	NA	NA	NA	NA	NA	**220**	NA	NA	NA	NA	NA	2.9	2.5	1.2	49.0	<0.33	<0.18
	9/19/16	**14,000**	NA	NA	NA	NA	**<7.3**	NA	NA	160	NA	NA	NA	NA	NA	1.4	1.2	0.79J	22.6	<0.33	<0.18
	6/13/18	**9900**	NA	NA	NA	NA	NA	NA	NA	51	NA	NA	NA	NA	NA	<0.24	<0.41	<0.50	2.1	<0.33	<0.18
Private	Aug-94	<10	<10	NA	NA	NA															
Municipal	Aug-94	<10	<10	NA	NA	NA															
	DUP.	<10	<10	NA	NA	NA															
	Oct-94	<10	<10	NA	NA	NA															
	DUP.	<10	<10	NA	NA	NA															
USGS	Oct-94	<10	0.75 B	NA	NA	NA															
USGS-A	Oct-94	<10	11.9	NA	NA	NA															

NA - Compound not analyzed
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Bolded - Concentration exceeds enforcement standard


06/13/2018


N ←MW1
MW1A →


N MW2


N SUMP
06/13/2018


N ←MW1
MW1A →


N MW3R


06/13/2018


N ←MW1
MW1A →


06/13/2018


MW5A↑
MW5↓


←MW6
MW6A→


MW7A↑
MW7↓


MW5A↑
MW5↓


←MW6
MW6A→


MW7A↑
MW7↓


06/13/2018


← MW8
MW8A →
06/13/2018


MW10
06/13/2018


MW101


← MW8
MW8A →
06/13/2018


MW11
MONITORING WELL
06/13/2018


MW104


MW9
06/13/2018


MW12
MONITORING WELL
06/13/2018


06/13/2018


N
MW106A ↑
MW106 ↓
MONITORING WELL
06/13/2018


N
MW107 ↑
MW107A ↓
06/13/2018


N
← MW108
MW108A →
06/13/2018


N
MW106A ↑
MW106 ↓
06/13/2018


N
MW107 ↑
MW107A ↓
06/13/2018


N
← MW108
MW108A →
06/13/2018


06/13/2018


06/13/2018


06/13/2018


N
← MW110A
MW110 →
NOT
SEAL
MONITORING
WELL
06/13/2018


N
MW112
MONITORING
WELL
06/13/2018


N
MW115 ↑
↓ MW115A
06/13/2018


N
← MW110A
MW110 →
06/13/2018


N
MW113
MONITORING
WELL
06/13/2018


N
MW115 ↑
↓ MW115A
06/13/2018


N
MW111
06/13/2018


06/13/2018


N
MW116
MONITORING
WELL
06/13/2018

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

June 15, 2018

Brian Wayner
Omnni Associates, Inc.
One Systems Drive
Appleton, WI 549141654

RE: Project: N1969A07/009 BETTER BRITE
Pace Project No.: 40170650

Dear Brian Wayner:
Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Steven Mleczko
steve.mleczko@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Chris Rogers, OMNNI ASSOCIATES, INC.

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

CERTIFICATIONS

Project: N1969A07/009 BETTER BRITE
Pace Project No.: 40170650

Green Bay Certification IDs

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
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(920)469-2436

SAMPLE SUMMARY

Project: N1969A07/009 BETTER BRITE
Pace Project No.: 40170650

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40170650001	**MW9**	Water	06/12/18 10:20	06/12/18 15:45
40170650002	**MW3R**	Water	06/12/18 12:37	06/12/18 15:45
40170650003	**W1A**	Water	06/12/18 13:13	06/12/18 15:45
40170650004	**W1**	Water	06/12/18 13:30	06/12/18 15:45
40170650005	**MW10**	Water	06/12/18 14:15	06/12/18 15:45
40170650006	**MW5**	Water	06/12/18 14:51	06/12/18 15:45

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SAMPLE ANALYTE COUNT

Project: N1969A07/009 BETTER BRITE
Pace Project No.: 40170650

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40170650001	**MW9**	SM 3500-Cr B (Online)	DEY	1	PASI-G
40170650002	**MW3R**	SM 3500-Cr B (Online)	DEY	1	PASI-G
40170650003	**W1A**	SM 3500-Cr B (Online)	DEY	1	PASI-G
40170650004	**W1**	SM 3500-Cr B (Online)	DEY	1	PASI-G
40170650005	**MW10**	SM 3500-Cr B (Online)	DEY	1	PASI-G
40170650006	**MW5**	SM 3500-Cr B (Online)	DEY	1	PASI-G

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ANALYTICAL RESULTS

Project: N1969A07/009 BETTER BRITE
Pace Project No.: 40170650

Sample: MW9 **Lab ID: 40170650001** Collected: 06/12/18 10:20 Received: 06/12/18 15:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**<0.13**	mg/L	0.43	0.13	25		06/13/18 08:50		D3

Sample: MW3R **Lab ID: 40170650002** Collected: 06/12/18 12:37 Received: 06/12/18 15:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**<0.13**	mg/L	0.43	0.13	25		06/13/18 08:50		D3

Sample: W1A **Lab ID: 40170650003** Collected: 06/12/18 13:13 Received: 06/12/18 15:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**2.7**	mg/L	0.43	0.13	25		06/13/18 08:50		

Sample: W1 **Lab ID: 40170650004** Collected: 06/12/18 13:30 Received: 06/12/18 15:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**6.6**	mg/L	0.43	0.13	25		06/13/18 08:50		

Sample: MW10 **Lab ID: 40170650005** Collected: 06/12/18 14:15 Received: 06/12/18 15:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**3.2**	mg/L	0.43	0.13	25		06/13/18 08:50		

Sample: MW5 **Lab ID: 40170650006** Collected: 06/12/18 14:51 Received: 06/12/18 15:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**0.18**	mg/L	0.043	0.013	2.5		06/13/18 08:50		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: N1969A07/009 BETTER BRITE
Pace Project No.: 40170650

QC Batch: 291705 Analysis Method: SM 3500-Cr B (Online)
QC Batch Method: SM 3500-Cr B (Online) Analysis Description: Chromium, Hexavalent by 3500
Associated Lab Samples: 40170650001, 40170650002, 40170650003, 40170650004, 40170650005, 40170650006

METHOD BLANK: 1705648 Matrix: Water
Associated Lab Samples: 40170650001, 40170650002, 40170650003, 40170650004, 40170650005, 40170650006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.0051	0.017	06/13/18 08:50	

LABORATORY CONTROL SAMPLE: 1705649

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.3	0.30	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1705650 1705651

Parameter	Units	40170650001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/L	<0.13	7.5	7.5	7.3	7.4	98	98	90-110	0	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: N1969A07/009 BETTER BRITE
Pace Project No.: 40170650

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: N1969A07/009 BETTER BRITE
Pace Project No.: 40170650

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40170650001	**MW9**	SM 3500-Cr B (Online)	291705		
40170650002	**MW3R**	SM 3500-Cr B (Online)	291705		
40170650003	**W1A**	SM 3500-Cr B (Online)	291705		
40170650004	**W1**	SM 3500-Cr B (Online)	291705		
40170650005	**MW10**	SM 3500-Cr B (Online)	291705		
40170650006	**MW5**	SM 3500-Cr B (Online)	291705		

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 1 of

40170650

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	OMNNI Associates
Branch/Location:	Appleton
Project Contact:	Brian Wayner
Phone:	920.830.6141
Project Number:	N1969A07/009
Project Name:	Better Brite
Project State:	WI
Sampled By (Print):	Kim Kennedy
Sampled By (Sign):	Kim Kennedy
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Brian Wayner
Mail To Company:	OMNNI Associates
Mail To Address:	One Systems Dr. Appleton, WI 54914
Invoice To Contact:	
Invoice To Company:	SAME
Invoice To Address:	Brian.Wayner@omnni.com
Invoice To Phone:	920.735.6900

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SL = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	Analyses Requested: Hex Chromium	Analyses Requested: VOCs	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	~~TRIP BLANK~~	~~6/12~~	~~0900~~	~~GW~~							
001	MW9	6/12	1020	GW			X				
002	MW3R		1237				X				
003	W1A		1313				X				
004	W1		1330				X				
005	MW10		1415				X				
006	MW5		1451				X				
					Y/N		N	N			
					Pick Letter		A	B			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Kim Kennedy	6/12 1548		6/12/18 1545

PACE Project No.: 40170650

Receipt Temp = 2.9 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal: Present / Not Present
Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

ORIGINAL

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

Sample Preservation Receipt Form

Client Name: Omni Project # 401706 50

All containers needing preservation have been checked and noted below: □Yes □No ~~□N/A~~

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted): Initial when completed: Date/ Time:

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	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
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	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 25Apr2018
	Document No.: **F-GB-C-031-Rev.07**	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40170650

40170650

Client Name: Omni

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 - NA **Type of Ice:** Wet Blue Dry None ☐ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: /Corr: R01

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.

Person examining contents:
Date: 6/12/18
Initials:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. no page # 6/12/18
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. no times 6/12/18
-Includes date/time/ID/Analysis Matrix: W		
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:

Project Manager Review: **Date:** 6/13/18

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

June 22, 2018

Brian Wayner
Omnni Associates, Inc.
One Systems Drive
Appleton, WI 549141654

RE: Project: N1969A07/009 BETTER BRITE
Pace Project No.: 40170746

Dear Brian Wayner:
Enclosed are the analytical results for sample(s) received by the laboratory on June 13, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Steven Mleczko
steve.mleczko@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Chris Rogers, OMNNI ASSOCIATES, INC.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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CERTIFICATIONS

Project: N1969A07/009 BETTER BRITE
Pace Project No.: 40170746

Green Bay Certification IDs

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: N1969A07/009 BETTER BRITE
Pace Project No.: 40170746

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40170746001	**TRIP BLANK**	Water	06/13/18 00:00	06/13/18 15:48
40170746002	**ZINC SUMP**	Water	06/13/18 10:58	06/13/18 15:48
40170746003	**MW2**	Water	06/13/18 11:30	06/13/18 15:48
40170746004	**MW6**	Water	06/13/18 12:43	06/13/18 15:48
40170746005	**MW111**	Water	06/13/18 13:16	06/13/18 15:48
40170746006	**MW116**	Water	06/13/18 13:45	06/13/18 15:48
40170746007	**MW115A**	Water	06/13/18 14:20	06/13/18 15:48
40170746008	**MW115**	Water	06/13/18 14:39	06/13/18 15:48

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SAMPLE ANALYTE COUNT

Project: N1969A07/009 BETTER BRITE
Pace Project No.: 40170746

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40170746001	**TRIP BLANK**	EPA 8260	HNW	64	PASI-G
40170746002	**ZINC SUMP**	EPA 8260	HNW	64	PASI-G
		SM 3500-Cr B (Online)	DEY	1	PASI-G
		EPA 335.4	DAW	1	PASI-G
40170746003	**MW2**	SM 3500-Cr B (Online)	DEY	1	PASI-G
40170746004	**MW6**	SM 3500-Cr B (Online)	DEY	1	PASI-G
40170746005	**MW111**	SM 3500-Cr B (Online)	DEY	1	PASI-G
40170746006	**MW116**	EPA 8260	HNW	64	PASI-G
		SM 3500-Cr B (Online)	DEY	1	PASI-G
40170746007	**MW115A**	SM 3500-Cr B (Online)	DEY	1	PASI-G
40170746008	**MW115**	SM 3500-Cr B (Online)	DEY	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: N1969A07/009 BETTER BRITE
Pace Project No.: 40170746

Sample: TRIP BLANK **Lab ID: 40170746001** Collected: 06/13/18 00:00 Received: 06/13/18 15:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		06/15/18 08:00	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		06/15/18 08:00	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		06/15/18 08:00	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		06/15/18 08:00	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		06/15/18 08:00	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		06/15/18 08:00	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		06/15/18 08:00	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		06/15/18 08:00	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		06/15/18 08:00	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		06/15/18 08:00	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		06/15/18 08:00	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		06/15/18 08:00	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		06/15/18 08:00	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		06/15/18 08:00	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		06/15/18 08:00	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		06/15/18 08:00	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		06/15/18 08:00	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		06/15/18 08:00	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		06/15/18 08:00	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		06/15/18 08:00	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		06/15/18 08:00	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		06/15/18 08:00	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		06/15/18 08:00	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		06/15/18 08:00	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		06/15/18 08:00	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		06/15/18 08:00	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		06/15/18 08:00	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: N1969A07/009 BETTER BRITE
Pace Project No.: 40170746

Sample: TRIP BLANK **Lab ID: 40170746001** Collected: 06/13/18 00:00 Received: 06/13/18 15:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		06/15/18 08:00	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		06/15/18 08:00	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		06/15/18 08:00	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		06/15/18 08:00	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		06/15/18 08:00	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		06/15/18 08:00	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		06/15/18 08:00	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		06/15/18 08:00	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 08:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/15/18 08:00	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		06/15/18 08:00	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/15/18 08:00	2037-26-5	

Sample: ZINC SUMP **Lab ID: 40170746002** Collected: 06/13/18 10:58 Received: 06/13/18 15:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		06/15/18 01:21	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		06/15/18 01:21	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		06/15/18 01:21	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		06/15/18 01:21	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		06/15/18 01:21	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		06/15/18 01:21	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		06/15/18 01:21	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		06/15/18 01:21	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		06/15/18 01:21	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		06/15/18 01:21	106-93-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: N1969A07/009 BETTER BRITE
Pace Project No.: 40170746

Sample: ZINC SUMP **Lab ID: 40170746002** Collected: 06/13/18 10:58 Received: 06/13/18 15:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		06/15/18 01:21	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		06/15/18 01:21	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		06/15/18 01:21	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		06/15/18 01:21	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		06/15/18 01:21	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		06/15/18 01:21	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		06/15/18 01:21	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		06/15/18 01:21	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		06/15/18 01:21	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		06/15/18 01:21	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		06/15/18 01:21	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		06/15/18 01:21	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		06/15/18 01:21	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		06/15/18 01:21	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		06/15/18 01:21	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		06/15/18 01:21	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		06/15/18 01:21	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		06/15/18 01:21	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		06/15/18 01:21	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		06/15/18 01:21	120-82-1	
1,1,1-Trichloroethane	**2.1**	ug/L	1.0	0.50	1		06/15/18 01:21	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		06/15/18 01:21	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		06/15/18 01:21	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		06/15/18 01:21	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		06/15/18 01:21	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		06/15/18 01:21	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		06/15/18 01:21	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		06/15/18 01:21	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		06/15/18 01:21	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		06/15/18 01:21	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: N1969A07/009 BETTER BRITE
Pace Project No.: 40170746

Sample: ZINC SUMP **Lab ID: 40170746002** Collected: 06/13/18 10:58 Received: 06/13/18 15:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**9.9**	mg/L	1.7	0.51	100		06/14/18 09:00		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	**0.051**	mg/L	0.045	0.014	1	06/21/18 08:50	06/21/18 10:29	57-12-5	

Sample: MW2 **Lab ID: 40170746003** Collected: 06/13/18 11:30 Received: 06/13/18 15:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**<0.026**	mg/L	0.086	0.026	5		06/14/18 09:00		D3

Sample: MW6 **Lab ID: 40170746004** Collected: 06/13/18 12:43 Received: 06/13/18 15:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**1.4**	mg/L	0.086	0.026	5		06/14/18 09:00		

Sample: MW111 **Lab ID: 40170746005** Collected: 06/13/18 13:16 Received: 06/13/18 15:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**<0.13**	mg/L	0.43	0.13	25		06/14/18 09:00		D3

Sample: MW116 **Lab ID: 40170746006** Collected: 06/13/18 13:45 Received: 06/13/18 15:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	71-43-2	
Bromobenzene	**<0.46**	ug/L	2.0	0.46	2		06/15/18 04:13	108-86-1	
Bromochloromethane	**<0.68**	ug/L	2.0	0.68	2		06/15/18 04:13	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	75-27-4	
Bromoform	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	75-25-2	
Bromomethane	**<4.9**	ug/L	10.0	4.9	2		06/15/18 04:13	74-83-9	
n-Butylbenzene	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	104-51-8	
sec-Butylbenzene	**<4.4**	ug/L	10.0	4.4	2		06/15/18 04:13	135-98-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: N1969A07/009 BETTER BRITE
Pace Project No.: 40170746

Sample: MW116 **Lab ID: 40170746006** Collected: 06/13/18 13:45 Received: 06/13/18 15:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
tert-Butylbenzene	**<0.36**	ug/L	2.0	0.36	2		06/15/18 04:13	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	56-23-5	
Chlorobenzene	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	108-90-7	
Chloroethane	**<0.75**	ug/L	2.0	0.75	2		06/15/18 04:13	75-00-3	
Chloroform	**<5.0**	ug/L	10.0	5.0	2		06/15/18 04:13	67-66-3	
Chloromethane	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	74-87-3	
2-Chlorotoluene	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	95-49-8	
4-Chlorotoluene	**<0.43**	ug/L	2.0	0.43	2		06/15/18 04:13	106-43-4	
1,2-Dibromo-3-chloropropane	**<4.3**	ug/L	10.0	4.3	2		06/15/18 04:13	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	124-48-1	
1,2-Dibromoethane (EDB)	**<0.36**	ug/L	2.0	0.36	2		06/15/18 04:13	106-93-4	
Dibromomethane	**<0.85**	ug/L	2.0	0.85	2		06/15/18 04:13	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	106-46-7	
Dichlorodifluoromethane	**<0.45**	ug/L	2.0	0.45	2		06/15/18 04:13	75-71-8	
1,1-Dichloroethane	**34.4**	ug/L	2.0	0.48	2		06/15/18 04:13	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/L	2.0	0.34	2		06/15/18 04:13	107-06-2	
1,1-Dichloroethene	**37.4**	ug/L	2.0	0.82	2		06/15/18 04:13	75-35-4	
cis-1,2-Dichloroethene	**0.93J**	ug/L	2.0	0.51	2		06/15/18 04:13	156-59-2	
trans-1,2-Dichloroethene	**<0.51**	ug/L	2.0	0.51	2		06/15/18 04:13	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/L	2.0	0.47	2		06/15/18 04:13	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	142-28-9	
2,2-Dichloropropane	**<0.97**	ug/L	2.0	0.97	2		06/15/18 04:13	594-20-7	
1,1-Dichloropropene	**<0.88**	ug/L	2.0	0.88	2		06/15/18 04:13	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/L	2.0	0.46	2		06/15/18 04:13	10061-02-6	
Diisopropyl ether	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	108-20-3	
Ethylbenzene	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	100-41-4	
Hexachloro-1,3-butadiene	**<4.2**	ug/L	10.0	4.2	2		06/15/18 04:13	87-68-3	
Isopropylbenzene (Cumene)	**<0.29**	ug/L	2.0	0.29	2		06/15/18 04:13	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	99-87-6	
Methylene Chloride	**<0.47**	ug/L	2.0	0.47	2		06/15/18 04:13	75-09-2	
Methyl-tert-butyl ether	**<0.35**	ug/L	2.0	0.35	2		06/15/18 04:13	1634-04-4	
Naphthalene	**<5.0**	ug/L	10.0	5.0	2		06/15/18 04:13	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	103-65-1	
Styrene	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	2.0	0.36	2		06/15/18 04:13	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/L	2.0	0.50	2		06/15/18 04:13	79-34-5	
Tetrachloroethene	**1.1J**	ug/L	2.0	1.0	2		06/15/18 04:13	127-18-4	
Toluene	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	108-88-3	
1,2,3-Trichlorobenzene	**<4.3**	ug/L	10.0	4.3	2		06/15/18 04:13	87-61-6	
1,2,4-Trichlorobenzene	**<4.4**	ug/L	10.0	4.4	2		06/15/18 04:13	120-82-1	
1,1,1-Trichloroethane	**125**	ug/L	2.0	1.0	2		06/15/18 04:13	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	2.0	0.39	2		06/15/18 04:13	79-00-5	
Trichloroethene	**1.5J**	ug/L	2.0	0.66	2		06/15/18 04:13	79-01-6	

REPORT OF LABORATORY ANALYSIS

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

Project: N1969A07/009 BETTER BRITE
Pace Project No.: 40170746

Sample: MW116 **Lab ID: 40170746006** Collected: 06/13/18 13:45 Received: 06/13/18 15:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Trichlorofluoromethane	**<0.37**	ug/L	2.0	0.37	2		06/15/18 04:13	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	108-67-8	
Vinyl chloride	**<0.35**	ug/L	2.0	0.35	2		06/15/18 04:13	75-01-4	
m&p-Xylene	**<2.0**	ug/L	4.0	2.0	2		06/15/18 04:13	179601-23-1	
o-Xylene	**<1.0**	ug/L	2.0	1.0	2		06/15/18 04:13	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		2		06/15/18 04:13	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		2		06/15/18 04:13	1868-53-7	
Toluene-d8 (S)	101	%	70-130		2		06/15/18 04:13	2037-26-5	
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**12.1**	mg/L	0.86	0.26	50		06/14/18 09:00		

Sample: MW115A **Lab ID: 40170746007** Collected: 06/13/18 14:20 Received: 06/13/18 15:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**<0.13**	mg/L	0.43	0.13	25		06/14/18 09:00		D3

Sample: MW115 **Lab ID: 40170746008** Collected: 06/13/18 14:39 Received: 06/13/18 15:48 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**<0.13**	mg/L	0.43	0.13	25		06/14/18 09:00		D3

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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QUALITY CONTROL DATA

Project: N1969A07/009 BETTER BRITE
Pace Project No.: 40170746

QC Batch: 291896 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40170746001, 40170746002, 40170746006

METHOD BLANK: 1706812 Matrix: Water
Associated Lab Samples: 40170746001, 40170746002, 40170746006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	06/14/18 17:50	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	06/14/18 17:50	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	06/14/18 17:50	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	06/14/18 17:50	
1,1-Dichloroethane	ug/L	<0.24	1.0	06/14/18 17:50	
1,1-Dichloroethene	ug/L	<0.41	1.0	06/14/18 17:50	
1,1-Dichloropropene	ug/L	<0.44	1.0	06/14/18 17:50	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	06/14/18 17:50	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	06/14/18 17:50	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	06/14/18 17:50	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	06/14/18 17:50	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	06/14/18 17:50	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	06/14/18 17:50	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	06/14/18 17:50	
1,2-Dichloroethane	ug/L	<0.17	1.0	06/14/18 17:50	
1,2-Dichloropropane	ug/L	<0.23	1.0	06/14/18 17:50	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	06/14/18 17:50	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	06/14/18 17:50	
1,3-Dichloropropane	ug/L	<0.50	1.0	06/14/18 17:50	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	06/14/18 17:50	
2,2-Dichloropropane	ug/L	<0.48	1.0	06/14/18 17:50	
2-Chlorotoluene	ug/L	<0.50	1.0	06/14/18 17:50	
4-Chlorotoluene	ug/L	<0.21	1.0	06/14/18 17:50	
Benzene	ug/L	<0.50	1.0	06/14/18 17:50	
Bromobenzene	ug/L	<0.23	1.0	06/14/18 17:50	
Bromochloromethane	ug/L	<0.34	1.0	06/14/18 17:50	
Bromodichloromethane	ug/L	<0.50	1.0	06/14/18 17:50	
Bromoform	ug/L	<0.50	1.0	06/14/18 17:50	
Bromomethane	ug/L	<2.4	5.0	06/14/18 17:50	
Carbon tetrachloride	ug/L	<0.50	1.0	06/14/18 17:50	
Chlorobenzene	ug/L	<0.50	1.0	06/14/18 17:50	
Chloroethane	ug/L	<0.37	1.0	06/14/18 17:50	
Chloroform	ug/L	<2.5	5.0	06/14/18 17:50	
Chloromethane	ug/L	<0.50	1.0	06/14/18 17:50	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	06/14/18 17:50	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	06/14/18 17:50	
Dibromochloromethane	ug/L	<0.50	1.0	06/14/18 17:50	
Dibromomethane	ug/L	<0.43	1.0	06/14/18 17:50	
Dichlorodifluoromethane	ug/L	<0.22	1.0	06/14/18 17:50	
Diisopropyl ether	ug/L	<0.50	1.0	06/14/18 17:50	
Ethylbenzene	ug/L	<0.50	1.0	06/14/18 17:50	

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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: N1969A07/009 BETTER BRITE
Pace Project No.: 40170746

METHOD BLANK: 1706812 Matrix: Water
Associated Lab Samples: 40170746001, 40170746002, 40170746006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	06/14/18 17:50	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	06/14/18 17:50	
m&p-Xylene	ug/L	<1.0	2.0	06/14/18 17:50	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	06/14/18 17:50	
Methylene Chloride	ug/L	<0.23	1.0	06/14/18 17:50	
n-Butylbenzene	ug/L	<0.50	1.0	06/14/18 17:50	
n-Propylbenzene	ug/L	<0.50	1.0	06/14/18 17:50	
Naphthalene	ug/L	<2.5	5.0	06/14/18 17:50	
o-Xylene	ug/L	<0.50	1.0	06/14/18 17:50	
p-Isopropyltoluene	ug/L	<0.50	1.0	06/14/18 17:50	
sec-Butylbenzene	ug/L	<2.2	5.0	06/14/18 17:50	
Styrene	ug/L	<0.50	1.0	06/14/18 17:50	
tert-Butylbenzene	ug/L	<0.18	1.0	06/14/18 17:50	
Tetrachloroethene	ug/L	<0.50	1.0	06/14/18 17:50	
Toluene	ug/L	<0.50	1.0	06/14/18 17:50	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	06/14/18 17:50	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	06/14/18 17:50	
Trichloroethene	ug/L	<0.33	1.0	06/14/18 17:50	
Trichlorofluoromethane	ug/L	<0.18	1.0	06/14/18 17:50	
Vinyl chloride	ug/L	<0.18	1.0	06/14/18 17:50	
4-Bromofluorobenzene (S)	%	95	70-130	06/14/18 17:50	
Dibromofluoromethane (S)	%	96	70-130	06/14/18 17:50	
Toluene-d8 (S)	%	108	70-130	06/14/18 17:50	

LABORATORY CONTROL SAMPLE: 1706813

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.7	101	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	46.5	93	67-130	
1,1,2-Trichloroethane	ug/L	50	48.6	97	70-130	
1,1-Dichloroethane	ug/L	50	49.1	98	70-134	
1,1-Dichloroethene	ug/L	50	50.3	101	75-132	
1,2,4-Trichlorobenzene	ug/L	50	50.7	101	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	41.1	82	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	50.2	100	70-130	
1,2-Dichlorobenzene	ug/L	50	50.8	102	70-130	
1,2-Dichloroethane	ug/L	50	49.4	99	73-134	
1,2-Dichloropropane	ug/L	50	47.6	95	79-128	
1,3-Dichlorobenzene	ug/L	50	51.4	103	70-130	
1,4-Dichlorobenzene	ug/L	50	50.4	101	70-130	
Benzene	ug/L	50	49.4	99	69-137	
Bromodichloromethane	ug/L	50	49.0	98	70-130	
Bromoform	ug/L	50	42.1	84	64-133	
Bromomethane	ug/L	50	23.8	48	29-123	

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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: N1969A07/009 BETTER BRITE
Pace Project No.: 40170746

LABORATORY CONTROL SAMPLE: 1706813

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	48.3	97	73-142	
Chlorobenzene	ug/L	50	49.6	99	70-130	
Chloroethane	ug/L	50	46.2	92	59-133	
Chloroform	ug/L	50	45.6	91	80-129	
Chloromethane	ug/L	50	33.1	66	27-125	
cis-1,2-Dichloroethene	ug/L	50	48.8	98	70-134	
cis-1,3-Dichloropropene	ug/L	50	43.9	88	70-130	
Dibromochloromethane	ug/L	50	45.5	91	70-130	
Dichlorodifluoromethane	ug/L	50	25.0	50	12-127	
Ethylbenzene	ug/L	50	52.1	104	86-127	
Isopropylbenzene (Cumene)	ug/L	50	52.7	105	70-130	
m&p-Xylene	ug/L	100	104	104	70-131	
Methyl-tert-butyl ether	ug/L	50	45.5	91	65-136	
Methylene Chloride	ug/L	50	47.7	95	72-133	
o-Xylene	ug/L	50	51.2	102	70-130	
Styrene	ug/L	50	51.4	103	70-130	
Tetrachloroethene	ug/L	50	48.4	97	70-130	
Toluene	ug/L	50	49.7	99	84-124	
trans-1,2-Dichloroethene	ug/L	50	49.2	98	70-133	
trans-1,3-Dichloropropene	ug/L	50	42.5	85	67-130	
Trichloroethene	ug/L	50	50.6	101	70-130	
Trichlorofluoromethane	ug/L	50	49.9	100	69-147	
Vinyl chloride	ug/L	50	40.0	80	48-134	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1706920 1706921

Parameter	Units	40170718005 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	<0.50	50	50	54.0	52.4	108	105	70-136	3	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	50.4	49.7	101	99	67-133	1	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	51.4	51.0	103	102	70-130	1	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	52.0	51.0	104	102	70-139	2	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	52.5	51.6	105	103	72-137	2	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	53.6	53.9	107	108	68-130	1	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	46.0	44.1	92	88	60-130	4	21	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	52.7	51.5	105	103	70-130	2	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	53.5	53.6	107	107	70-130	0	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	52.2	51.5	104	103	71-137	2	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	49.0	48.5	98	97	78-130	1	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	53.1	53.8	106	108	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	52.0	52.9	104	106	70-130	2	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: N1969A07/009 BETTER BRITE
Pace Project No.: 40170746

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1706920 1706921

Parameter	Units	40170718005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	51.4	51.1	103	102	66-143	0	20	
Bromodichloromethane	ug/L	<0.50	50	50	49.7	50.1	99	100	70-130	1	20	
Bromoform	ug/L	<0.50	50	50	44.7	44.5	89	89	64-134	0	20	
Bromomethane	ug/L	<2.4	50	50	26.9	28.4	54	57	29-136	5	25	
Carbon tetrachloride	ug/L	<0.50	50	50	51.0	49.9	102	100	73-142	2	20	
Chlorobenzene	ug/L	<0.50	50	50	52.2	51.3	104	103	70-130	2	20	
Chloroethane	ug/L	<0.37	50	50	47.9	46.3	96	93	58-138	3	20	
Chloroform	ug/L	<2.5	50	50	47.9	47.0	96	94	80-131	2	20	
Chloromethane	ug/L	<0.50	50	50	34.3	31.2	69	62	24-125	10	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	52.8	51.5	106	103	68-137	3	22	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	45.1	44.8	90	90	70-130	1	20	
Dibromochloromethane	ug/L	<0.50	50	50	48.1	47.2	96	94	70-131	2	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	26.2	25.5	52	51	10-127	3	20	
Ethylbenzene	ug/L	<0.50	50	50	54.9	53.6	110	107	81-136	3	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	55.6	54.5	111	109	70-132	2	20	
m&p-Xylene	ug/L	<1.0	100	100	109	107	109	107	70-135	2	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	47.3	46.7	95	93	58-142	1	23	
Methylene Chloride	ug/L	<0.23	50	50	51.0	49.0	102	98	69-137	4	20	
o-Xylene	ug/L	<0.50	50	50	54.5	53.3	109	107	70-132	2	20	
Styrene	ug/L	<0.50	50	50	53.9	53.4	108	107	70-130	1	20	
Tetrachloroethene	ug/L	<0.50	50	50	51.4	50.5	103	101	70-132	2	20	
Toluene	ug/L	<0.50	50	50	52.6	51.9	105	103	81-130	1	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	52.8	51.1	106	102	70-136	3	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	45.6	45.3	91	91	67-130	1	20	
Trichloroethene	ug/L	<0.33	50	50	51.9	52.3	104	105	70-131	1	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	53.1	51.6	106	103	66-150	3	20	
Vinyl chloride	ug/L	<0.18	50	50	42.2	39.9	84	80	46-134	6	20	
4-Bromofluorobenzene (S)	%						102	101	70-130			
Dibromofluoromethane (S)	%						107	106	70-130			
Toluene-d8 (S)	%						102	100	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: N1969A07/009 BETTER BRITE
Pace Project No.: 40170746

QC Batch: 291845 Analysis Method: SM 3500-Cr B (Online)
QC Batch Method: SM 3500-Cr B (Online) Analysis Description: Chromium, Hexavalent by 3500
Associated Lab Samples: 40170746002, 40170746003, 40170746004, 40170746005, 40170746006, 40170746007, 40170746008

METHOD BLANK: 1706527 Matrix: Water
Associated Lab Samples: 40170746002, 40170746003, 40170746004, 40170746005, 40170746006, 40170746007, 40170746008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.0051	0.017	06/14/18 09:00	

LABORATORY CONTROL SAMPLE: 1706528

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.3	0.31	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1706529 1706530

Parameter	Units	40170746002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/L	9.9	30	30	39.3	38.6	98	96	90-110	2	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: N1969A07/009 BETTER BRITE
Pace Project No.: 40170746

QC Batch: 292442 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 40170746002

METHOD BLANK: 1709720 Matrix: Water
Associated Lab Samples: 40170746002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	<0.0068	0.023	06/21/18 10:21	

LABORATORY CONTROL SAMPLE: 1709721

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.092	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1709722 1709723

Parameter	Units	40170795001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.014	.2	.2	0.19	0.19	92	92	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1709724 1709725

Parameter	Units	10435935003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.014	.2	.2	0.21	0.19	101	90	90-110	11	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

QUALIFIERS

Project: N1969A07/009 BETTER BRITE
Pace Project No.: 40170746

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

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

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: N1969A07/009 BETTER BRITE
Pace Project No.: 40170746

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40170746001	**TRIP BLANK**	EPA 8260	291896		
40170746002	**ZINC SUMP**	EPA 8260	291896		
40170746006	**MW116**	EPA 8260	291896		
40170746002	**ZINC SUMP**	SM 3500-Cr B (Online)	291845		
40170746003	**MW2**	SM 3500-Cr B (Online)	291845		
40170746004	**MW6**	SM 3500-Cr B (Online)	291845		
40170746005	**MW111**	SM 3500-Cr B (Online)	291845		
40170746006	**MW116**	SM 3500-Cr B (Online)	291845		
40170746007	**MW115A**	SM 3500-Cr B (Online)	291845		
40170746008	**MW115**	SM 3500-Cr B (Online)	291845		
40170746002	**ZINC SUMP**	EPA 335.4	292442	EPA 335.4	292482

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF CUSTODY

40170746

(Please Print Clearly)	
Company Name:	OMNNI Associates
Branch/Location:	Appleton
Project Contact:	Brian Wayner
Phone:	920.830.6141
Project Number:	N1969A07/009
Project Name:	Better Brite
Project State:	WI
Sampled By (Print):	Kim Kennedy
Sampled By (Sign):	KO Kennedy
PO #:	Regulatory Program:

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	Brian Wayner
Mail To Company:	OMNNI Associates
Mail To Address:	one systems DR. Appleton, WI 54914
Invoice To Contact:	Brian Wayner
Invoice To Company:	Brian.Wayner@omnni.com
Invoice To Address:	SAME
Invoice To Phone:	920.735.6900

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: Hex Chromium	VOCs	Cyanide	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	A		B	G			
001	TRIP BLANK	6/13		GW								
002	ZINC SUMP		1058				X	X	X			
003	MW2		1130				X					
004	MW6		1243				X					
005	MW11		1316				X					
006	MW11C		1345				X	X				
007	MW11SA		1420				X					
008	MW11S		1439				X					

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Kim Kennedy	6/13/18 1548	Pace	6/13/18 1548

PACE Project No.: 40170746

Receipt Temp = ROI °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal: Present / Not Present, Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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

Sample Preservation Receipt Form

Client Name: Omni Project # 40170746

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

Lab Lot# of pH paper: 120s0781 Lab Std #ID of preservation (if pH adjusted):

	Glass							Plastic							Vials						Jars			General							
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	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																		3 2													C1/17/18//		2.5 / 5 / 10
002											1							3												X			2.5 / 5 / 10
003											1	1																		X			2.5 / 5 / 10
004											1																						2.5 / 5 / 10
005											1																						2.5 / 5 / 10
006											1							3																2.5 / 5 / 10
007											1																						2.5 / 5 / 10
008											1																						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**

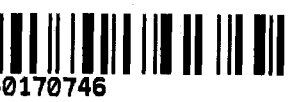
AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 25Apr2018
	Document No.: **F-GB-C-031-Rev.07**	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Omni

Project #: **WO# : 40170746**



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 - N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: R20 Corr: _____

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

Person examining contents:
Date: 6/13/18
Initials: _____

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. Collect dates 002-005, page 1, 6/13/18
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: _____		
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 402		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Client returned unused 250mL poly unpres

Project Manager Review: _____ **Date:** 6/14/18

Received 8/22/18

ENGINEERING
ARCHITECTURE
ENVIRONMENTAL

OMNNI ASSOCIATES

OMNNI ASSOCIATES, INC.
ONE SYSTEMS DRIVE
APPLETON, WI 54914-1654
1-800-571-6677 920-735-6900
FAX 920-830-6100

August 8, 2018

Mr. Keld Lauridsen
Hydrogeologist/Project Manager
WDNR-Northeast Region RR
2984 Shawano Avenue
Green Bay, WI 54313-6727

RE: Former Better Brite Chrome Shop and Zinc Shop – groundwater sampling
OMNNI Invoice

Dear Keld:

Enclosed is OMNNI's invoice for services performed at the former Better Brite facilities. Invoice #N1969A07_009-1 is for groundwater sampling, laboratory analysis, reporting, and correspondence. A paper copy and pdf of the summary report were sent to you. Copies of the laboratory invoices has been enclosed for reference.

If you have any questions regarding this invoice or the project in general, please contact me.

Sincerely,
OMNNI Associates, Inc.

Brian D. Wayner

Brian D. Wayner, P.E.
Environmental Manager

Attachments

ENGINEERING
ARCHITECTURE
ENVIRONMENTAL

OMNNI ASSOCIATES

OMNNI Associates, Inc.
One Systems Drive
Appleton, WI 54914-1654
920-735-6900
Fax 920-830-6100

Keld Lauridsen
Wisconsin Department of Natural Resources
2984 Shawano Avenue
Green Bay, WI 54313

INVOICE
No. N1969A07_009-1
08/08/2018

Better Brite Superfund Site, De Pere, WI
N1969A07_009

For Services Rendered Through 7/31/2018
Project Manager: Brian Wayner

Labor	Hours	Rate	Amount
Better Brite Superfund Site, De Pere, WI			
Kennedy, Kimberly M	29.00	$75.00	$2,175.00
Wayner, Brian	2.50	$110.00	$275.00
Weis, Jason C	1.00	$105.00	$105.00
		Sub-total	**$2,555.00**

Expenses	Qty	Rate	Amount
Mileage-OMNNI Vehicle	148.00	$.73	$108.04
Pace Analytical Services Inc	1.00	$215.00	$215.00
Pace Analytical Services Inc	1.00	$405.00	$405.00
		Sub-total	**$728.04**
		Invoice Total	**$3,283.04**

Project Manager: Brian Wayner

Approved for payment
Keld Lauridsen 8/22/18

Pace Analytical™
www.pacelabs.com

INVOICE

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

Invoice Number: 1840052272
Date: 06/15/2018
Total Amount Due: $215.00

Sold To:

Omnni Associates, Inc.
Omnni Associates, Inc.
One Systems Drive
Appleton, WI 54914-1654
(920) 830-6141

Please Remit To:

Pace Analytical Services, LLC
P.O. Box 684056
Chicago, IL 60695-4056

Client Number/Client ID	*Purchase Order No*	*Pace Project Mgr*	*Terms***	*Page*
40-000578 / OMNNI ASSOC.		Steven Mleczko	Net 30 Days	1

Client Project: N1969A07/009 BETTER BRITE
Client Name: OMNNI ASSOCIATES, INC.
Pace Project No: 40170650
Sample Received: 6/12/2018
Report Sent To: Brian Wayner, Omnni Associates, Inc.
Comments:

Description	Quantity	Price	Total
Chromium, Hexavalent	6	$35.00	$210.00
Environmental Impact Fee	1	$5.00	$5.00

Total Number of Charges 7 **Total Invoice Amount** **$215.00**

If you have any questions, please contact Steven Mleczko at Pace.
Phone: (920)469-2436 Email: steve.mleczko@pacelabs.com

****1.5% MONTHLY FINANCE CHARGE ASSESSED AFTER 30 DAYS OR TERMS OF CONTRACT.**
PLEASE REFERENCE THE INVOICE NUMBER ON ALL REMITTANCE ADVICE.

AN EQUAL OPPORTUNITY EMPLOYER

Please complete and return copy of invoice with your payment.

INVOICE TOTAL $215.00

Amount Paid: $ _____

Check No: _____

Customer No: 40-000578 Invoice No: 1840052272

Pace Analytical™
www.pacelabs.com

INVOICE

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

Invoice Number: 1840052595
Date: 06/22/2018
Total Amount Due: $405.00

Sold To:

Omnni Associates, Inc.
Omnni Associates, Inc.
One Systems Drive
Appleton, WI 54914-1654
(920) 830-6141

Please Remit To:

Pace Analytical Services, LLC
P.O. Box 684056
Chicago, IL 60695-4056

Client Number/Client ID	*Purchase Order No*	*Pace Project Mgr*	*Terms***	*Page*
40-000578 / OMNNI ASSOC.		Steven Mleczko	Net 30 Days	1

Client Project: N1969A07/009 BETTER BRITE
Client Name: OMNNI ASSOCIATES, INC.
Pace Project No: 40170746
Sample Received: 6/13/2018
Report Sent To: Brian Wayner, Omnni Associates, Inc.
Comments:

Description	Quantity	Price	Total
335.4 Cyanide, Total	1	$25.00	$25.00
8260 MSV	1	$0.00	$0.00
8260 MSV	2	$65.00	$130.00
Chromium, Hexavalent	7	$35.00	$245.00
Environmental Impact Fee	1	$5.00	$5.00

Total Number of Charges 12 **Total Invoice Amount** **$405.00**

If you have any questions, please contact Steven Mleczko at Pace.
Phone: (920)469-2436 Email: steve.mleczko@pacelabs.com

****1.5% MONTHLY FINANCE CHARGE ASSESSED AFTER 30 DAYS OR TERMS OF CONTRACT.**
PLEASE REFERENCE THE INVOICE NUMBER ON ALL REMITTANCE ADVICE.

AN EQUAL OPPORTUNITY EMPLOYER

Please complete and return copy of invoice with your payment.

INVOICE TOTAL $405.00

Amount Paid: $ _____

Check No: _____

Customer No: 40-000578 Invoice No: 1840052595

Lauridsen, Keld B - DNR

From: Lauridsen, Keld B - DNR
Sent: Friday, May 11, 2018 1:51 PM
To: 'Brian Wayner'
Subject: RE: SOW for groundwater sampling at Better Brite

Brian:

This email serves as Department approval of your cost estimate of approximately $3,300 and a notice to proceed with the requested groundwater sampling SOW.

I will have groundwater monitoring wells W1, W1A and MW2 purged by Foth prior to your arrival.

Let me know when you have it scheduled.

Thanks,

-Keld

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Keld B. Lauridsen
Phone: (920) 662-5420
Keld.Lauridsen@wisconsin.gov

From: Brian Wayner [mailto:Brian.Wayner@omnni.com]
Sent: Thursday, May 10, 2018 11:36 AM
To: Lauridsen, Keld B - DNR <Keld.Lauridsen@wisconsin.gov>
Subject: RE: SOW for groundwater sampling at Better Brite

Keld,

Attached is our proposed scope of work and level of effort cost to complete the groundwater sampling for the Better Brite sites. Let me know if you have any questions on the attachment. Thank you for allowing us with an opportunity to submit a proposal.

Brian D. Wayner, P.E.
Environmental Manager

OMNNI Associates, Inc.
One N. Systems Drive, Appleton, WI 54914-1654
800.571.6677, 920.830.6141 (D), 920.830.6100 (F)
bwayner@omnni.com

From: Lauridsen, Keld B - DNR <Keld.Lauridsen@wisconsin.gov>
Sent: Monday, May 7, 2018 2:01 PM
To: Brian Wayner <Brian.Wayner@omnni.com>
Cc: Ryan, William J <ryan.williamj@epa.gov>
Subject: SOW for groundwater sampling at Better Brite

Brian:

Please provide the Department a cost estimate for the following SOW for a groundwater sampling event at the former Better Brite Zinc and Chrome Shop sites in De Pere, WI. Sampling can be completed anytime when your schedule allows.

Chrome Shop:

Collect groundwater samples from monitoring wells MW111, MW115, MW115A and MW116 using conventional sampling techniques. Groundwater samples are to be analyzed for hexavalent chromium.

Monitoring well MW116 is also to be analyzed for VOC.

Zinc Shop:

Collect groundwater samples from monitoring points W1, W1A, MW2, MW3R, MW5, MW6, MW9, MW10 and the Zinc Shop sump using conventional sampling techniques. Grab sampling without any purging is acceptable for monitoring points W1, W1A and MW2 due damaged well screens/casings. The Department will make an effort to have the current treatment plant operator (Foth Infrastructure & Environment) purge these 3 wells prior to the next sampling event using plastic tubing and a pump. Groundwater samples from all the monitoring points are to be analyzed for hexavalent chromium.

The Zinc Shop sump is also to be analyzed for cyanide and VOC.

Groundwater elevations are to be determined for all groundwater monitoring points sampled. The groundwater elevation at the Zinc Shop sump should also be determined and included on the well specific field sheets.

Visually inspect all wells not sampled and note if any repairs are needed. If possible, minor repairs can be completed during this sampling event. Any cost associated with well repairs will be paid in addition to the cost estimate for the sampling activities.

All data is to be provided in tabular format attached to a letter update report.

Please let me know if you have any questions.

Thanks,

-Keld

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Keld B. Lauridsen
Hydrogeologist – Remediation & Redevelopment Program
Wisconsin Department of Natural Resources
2984 Shawano Avenue
Green Bay, WI 54313
Phone: (920) 662-5420
Keld.Lauridsen@wisconsin.gov

dnr.wi.gov

ENGINEERING
ARCHITECTURE
ENVIRONMENTAL
PLANNING

OMNNI ASSOCIATES, INC.
ONE SYSTEMS DRIVE
APPLETON, WI 54914-1654
TEL: 920-735-6900

May 10, 2018

Mr. Keld Lauridsen
Hydrogeologist/Project Manager
DNR-Northeast Region RR
P.O. Box 10448
Green Bay, WI 54307-0448

RE: Better Brite Superfund Site, De Pere, WI
Groundwater Sampling Proposal

Dear Keld:

Attached is our proposed level of effort for the groundwater sampling services requested at the Better Brite Superfund site. Our proposal is in response to your request for a cost estimate emailed on May 7, 2018.

Our level of effort is broken down as follows:

- Preparing for sampling, which includes notifying the Wisconsin Department of Natural Resources (DNR) project manager, coordinating with the laboratory, obtaining sampling containers, preparing labels, preparing chain of custody, Geo7X setup, and mobilization.

- Visual inspection, which includes locating and visually inspecting the cover of the 21 monitoring points which do not require groundwater analysis.

    - We estimated 10 minutes per monitoring point to locate the point, verify the GPS location, take a picture of the monitoring point cover, and note any general issues with the monitoring point cover.

    - If possible, minor repairs would be made to the monitoring well cover. Any cost associated with the monitoring well repairs would be paid in addition to the cost estimate provided for the sampling services.

- Monitoring well sampling, which includes determining the depth of groundwater and collecting a sample from 12 monitoring points.

    - We estimated 45 minutes per sampled monitoring point to locate the point, open the cover, take and record water elevation, decontaminate the water

level meter, purge the monitoring point with the provided bailer, take an unfiltered sample, which will be analyzed for hexavalent chromium, process the sample, complete the chain of custody, clean the cover, note any issues with the monitoring point, and secure the cover. Monitoring well MW116 will also be analyzed for VOCs.

- Sump sampling.
    - We estimated 30 minutes to access the Zinc Shop sump, measure the water level in the sump, collect an unfiltered sample, which will be analyzed for hexavalent chromium, VOCs, and cyanide, process the sample, complete the chain of custody, and secure the sump enclosure.
- Travel time.
    - We estimated 2.5 hours to travel to the site, travel between the sites, travel to the laboratory, and return to our office.
- Because of the short holding time for hexavalent chromium analysis, we are planning on delivering the samples to Pace Analytical rather than arranging for courier pickup.
- Purge water would be disposed at the treatment facility located at 315 South Sixth Street.
- Reporting/Project Management.
    - The letter report would consist of brief discussion of the sampling activities, the analytical report from the laboratory, summary tables of the analysis, a site location map, monitoring well locations maps with updated monitoring point locations, photographic summary, and well specific field sheets.
    - Project management will consist of reporting to the DNR project manager, and processing invoices.

Assumptions:

- The Zinc Shop sump can be readily accessed (building can be entered, sump enclosure gate can be unlocked and we can access the sump in a straightforward manner).
- All monitoring points can be accessed. The owner of the property that MW-111 is located is home and/or the dogs are not outside.

- W1, W1A and MW2, due to damaged well screens/casings, will be purged by others prior to the sampling event.

- The sampling event can be performed before the ground is snow covered.

We are not intending to provide, but can provide if requested, the following services:

- Groundwater elevations at monitoring points not sampled.

- Groundwater contour maps.

- Monitoring well cover repair, beyond minor repairs.

- Bailer replacement.

- Duplicate samples and analysis.

- pH/Conductivity/Temperature readings.

What we will need from the DNR:

- Access to the properties and treatment facility.

- Authorization to provide the services, in the form of a purchase order, service agreement, contract, or email notification.

We value the relationship built with the DNR on similar projects in the past, and we look forward to continuing to work with you. If you have any questions on our proposed services, please contact me at 920/830-6141 or bwayner@omnni.com.

Very truly yours,
OMNNI Associates, Inc.

Brian D. Wayner

Brian D. Wayner, P.E.
Environmental Manager

Enclosures

Better Brite Groundwater Sampling		**Consultant Fees**		**Equipment/Commodity Costs**			**Total**
Level-of-Effort 2018		Hours	Rate	Quantity	Unit	Unit Cost	
	Groundwater Sampling Event						
Brian	Project Manager/Engineer	3	$110				$330
Jason	GIS/Mapping Engineer	2	$105				$210
Kim	Environmental Technician	16	$75				$1,200
	Mileage			160	mile	$0.80	$128
Pace	Laboratory Analysis - Groundwater						
	Hexavalent Chromium			13	sample	$40	$520
	VOCs			2	sample	$65	$130
	VOCs - Trip Blank			1	sample	$0	$0
	Antimony			0	sample	$12	$0
	Cyanide			1	sample	$35	$35
							$2,553
	Reporting/Project Management						
Brian	Project Manager/Engineer	4	$110				$440
Kim	Environmental Technician	4	$75				$300
							$740

Total Proposed Cost: $3,293

Clarifications:

1. We do not markup subcontractor or commodity items. We have included the subcontractor proposals that we used to prepare the above level-of-effort for your review.
2. If any additional clarification on our proposed level-of-effort is required, please contact us.

OMNNI Associates, Inc.
One Systems Drive
Appleton, WI 54914-1654
1-800-571-6677
920-735-6900
FAX 920-830-6100

Laboratory Quote Reference Number: Pace Analytical Better Brite

Analytical Parameter	Analysis Method	Estimated Annual Quantity	Unit Price	Extended Price
Groundwater				
Hexavalent Chromium	SW-846-7196A	13	$40	$520.00
VOC	SW-846-8260	2	$65	$130.00
VOC Trip Blank	SW-846-8260	1	$0	$0.00
Antimony		1	$12	$12.00
Total Cyanide	EPA 335.4	1	$35	$35.00
			Total Extended Price:	$697.00

Scope of Services:
Laboratory analysis of groundwater samples collected from a former plating facility.

Site: Better Brite, De Pere, WI
Client: OMNNI Associates, Inc., One Systems Drive, Appleton, WI 54914-1654
Invoice to: OMNNI Associates
Report to: OMNNI Associates

Additional Terms:
1) Laboratory shall perform all tests listed above for the unit prices listed during the term June 2018 – December 2018.
2) Unit prices shall include all necessary sampling containers and vial holders.
3) Subcontracted tests shall be noted on bid form
3) Analysis report shall be available within 14 days after laboratory received samples.
4) An electronic copy of the report shall be provided.
5) The original invoice shall be included with each analysis report for the work done on that report.
6) Contract may be terminated upon failure by the successful bidder to comply with the above terms.