

From: [Brian Kent](#)
To: [Sager, John E - DNR](#); [John McCue](#)
Cc: [Kloczko, Nathan F - DHS](#); [Saari, Christopher A - DNR](#)
Subject: RE: Hayward Landfill Notification Letters
Date: Tuesday, August 22, 2023 1:25:03 PM
Attachments: [PW-1 Notification Letter 08.22.2023.pdf](#)
[PW-2 Notification Letter 08.22.2023.pdf](#)
[PW-6 Notification Letter 08.22.2023.pdf](#)
[PW-8 Notification Letter 08.22.2023.pdf](#)
[PW-10 Notification Letter 08.22.2023.pdf](#)
[PW-15 Notification Letter 08.22.2023.pdf](#)
[PW-17 Notification Letter 08.22.2023.pdf](#)
[PW-18 Notification Letter 08.18.2023.pdf](#)
[PW-19 Notification Letter 08.22.2023.pdf](#)

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John-

The notification letters are being sent today. I was not planning on sending hard copies to WDNR and DHS. Instead, please find attached electronic copies of each of the letters. If you need a hard copy, please let me know.

Still no word from Melissa Wallace so per your advisement, we are sending the letter to her Hayward address. Once I hear back from her, if she requests, I will email her a copy and arrange a follow up sample event for PW-15 and PW-2.

Should you have any questions please feel free to contact me.

Brian L. Kent, CHMM
Principal, Project Manager
Short Elliott Hendrickson Inc.
715.456.4621 mobile | 608.498.4844 direct
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Follow SEH on Twitter | Facebook | LinkedIn | Instagram

From: Sager, John E - DNR <John.Sager@wisconsin.gov>
Sent: Monday, August 21, 2023 4:05 PM
To: Brian Kent <bkent@sehinc.com>; John McCue <pw3@centurytel.net>
Cc: Kloczko, Nathan F - DHS <nathan.kloczko@dhs.wisconsin.gov>; Saari, Christopher A - DNR <Christopher.Saari@wisconsin.gov>
Subject: RE: Hayward Landfill Notification Letters

I think for now send it to her Hayward address. Attached is the letter. Make sure to forward her a copy when she contacts you and please copy me on any emails or regular mail to her containing the

results. Thanks.

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

John Sager

Hydrogeologist – Remediation and Redevelopment Program

Wisconsin Department of Natural Resources

1701 N. 4th St.

Superior, WI 54880

Phone: (715) 919-7239

john.sager@wisconsin.gov



dnr.wi.gov



From: Brian Kent <bkent@sehinc.com>

Sent: Monday, August 21, 2023 3:12 PM

To: Sager, John E - DNR <John.Sager@wisconsin.gov>; John McCue <pw3@centurytel.net>

Cc: Kloczko, Nathan F - DHS <nathan.kloczko@dhs.wisconsin.gov>; Saari, Christopher A - DNR <Christopher.Saari@wisconsin.gov>

Subject: RE: Hayward Landfill Notification Letters

CAUTION: This email originated from outside the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

John- Still no response from Melissa Wallace. I left her another voice mail and will let you know if she returns my call. In the interim, should we send to her address in Hayward?

Brian L. Kent, CHMM

Principal, Project Manager

Short Elliott Hendrickson Inc.

715.456.4621 mobile | 608.498.4844 direct

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From: Sager, John E - DNR <John.Sager@wisconsin.gov>

Sent: Tuesday, August 15, 2023 3:26 PM

To: John McCue <pw3@centurytel.net>; Brian Kent <bkent@sehinc.com>

Cc: Kloczko, Nathan F - DHS <nathan.kloczko@dhs.wisconsin.gov>; Saari, Christopher A - DNR

<Christopher.Saari@wisconsin.gov>

Subject: FW: Hayward Landfill Notification Letters

John and Brian,

Attached are the DHS and DNR notification of results letters for Hayward Landfill for the City to send to the well owners. I did not include the Melissa Wallace letter because we do not have an address for her yet. Please send me her address as soon as possible so we can get a notification letter sent to her. Please let me know if you have any questions.

Thank you.

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

John Sager

Hydrogeologist – Remediation and Redevelopment Program

Wisconsin Department of Natural Resources

1701 N. 4th St.

Superior, WI 54880

Phone: (715) 919-7239

john.sager@wisconsin.gov



dnr.wi.gov





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for All of Us®

August 21, 2023

RE: City of Hayward
PFAS Investigation
SEH No. HAYWA 171210 14.00

Linda Graham, LLC
16297 W Nursery Road
Hayward, WI 54843

Dear Linda Graham, LLC:

Please find enclosed a letter from the Wisconsin Department of Health and Human Services (DHS) summarizing the per- and polyfluoroalkyl substances (PFAS) analytical results for a groundwater sample collected from your private well on June 5, 2023.

Should you have any questions relating to the letter or results, please do not hesitate to contact me at 608.498.4844, or John Sager (Wisconsin Department of Natural Resources (WDNR)) and/or Nathan Kloczko (DHS) at the respective locations referenced on the DHS letter.

Sincerely,

A handwritten signature in black ink, appearing to read "B. Kent", is written over a light blue horizontal line.

Brian L. Kent, CHMM
Project Manager

BLK/blk/BKO
Enclosure

c: John Sager, WDNR
Nathan Kloczko, DHS
John McCue, Director of Public Works, Hayward, WI.

x:\fj\h\haywa\171210\tads\2023\pfas\pw notification letters\pw-1 notification letter_08.22.2023.docx

Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 329 Jay Street, Suite 301, La Crosse, WI 54601-4034

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Tony Evers
Governor



DIVISION OF PUBLIC HEALTH

1 WEST WILSON STREET
PO BOX 2659
MADISON WI 53701-2659

Kirsten L. Johnson
Secretary

State of Wisconsin
Department of Health Services

Telephone: 608-266-1251
Fax: 608-267-2832
TTY: 711 or 800-947-3529

August 14, 2023

Ms. Linda Graham
Linda Graham, LLC
16297 West Nursery Road
Hayward, WI 54843

**RE: Laboratory results for PFAS for water sample collected from
15297 West Nursery Road, Hayward**

Dear Linda Graham, LLC,

Our agency, the Department of Health Services (DHS), recently received notice from the Department of Natural Resources (DNR) of well test results from your drinking water well located at 15297 West Nursery Road, Hayward. These results are for the well labeled PW-1 on the attached figure. The table on the last page of this letter summarizes these results. The complete laboratory analytical results are also attached. In this letter, we will discuss PFAS levels tested for in your well. **The results show that one or more PFAS were found in your well, but not above Wisconsin recommended public health values. You can continue to use the water as you normally would, but you can still take action to reduce PFAS exposure.**

Actions you can take to reduce your exposure to PFAS include the following:

- Use an alternative source of water for drinking and preparing foods that take up a lot of water (like oatmeal, rice, or soup). This includes:
 - Filtered water from a pitcher, sink, or whole-house filter system with a certified filter technology. Our [Reducing PFAS in Your Drinking Water Brochure](http://www.dhs.wisconsin.gov/publications/p03012.pdf) <http://www.dhs.wisconsin.gov/publications/p03012.pdf> has information on appropriate devices.
 - Bottled water that has been purified or filtered.
 - Other sources of water that have been tested for PFAS and do not have levels above the public health values.
- Follow fish consumption advisories, vacuum frequently, and avoid consumer products that contain PFAS.

PFAS are a group of man-made chemicals that have been used in many products since the 1950s. Studies among people have shown that exposure to high levels of some PFAS can affect our health. Potential health issues include elevated cholesterol levels, decreased antibody response to certain vaccines, and reduced fertility in women. Additional health information about the health effects of PFAS can be found at www.dhs.wisconsin.gov/chemical/pfas.htm.

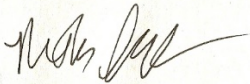
You can contact DNR and DHS with questions about PFAS or the water sample results at the numbers provided below.

DNR John Sager
 DHS Nathan Kloczko

715-919-7239
 608-867-4448

John.Sager@Wisconsin.gov
Nathan.Kloczko@dhs.wisconsin.gov

Sincerely,



Nathan Kloczko, MPH
 Site Evaluation Program Coordinator
 Bureau of Environmental and Occupational Health

Substance	Result (ng/L)	Recommended Health Value (ng/L)	Result above Recommended Health Value?
PFOS	ND		
PFOA	ND		
FOSA	2.0		
NEtFOSA	ND		
NEtFOSAA	ND		
NEtFOSE	ND		
Total of the six above:	2.0	20*	no
PFNA	ND	30	no
PFHxS	ND	40	no
HFPO-DA (GenX)	ND	300	no
PFDA	ND	300	no
PFDoA	ND	50	no
DONA	ND	3,000	no
PFUnA	ND	3,000	no
PFBA	ND	10,000	no
PFTeA	ND	10,000	no
PFHxA	ND	150,000	no
PFODA	ND	400,000	no
PFBS	0.48	450,000	no

ng/L = nanograms of substance per liter of water – equivalent to parts per trillion

*We recommend a combined health value of 20 ng/l for PFOS, PFOA, FOSA, NEtFOSA, NEtFOSAA, and NEtFOSE.

ND stands for “not detected.” This means that the compound may not be present in your water, or if it is present, it is at a level lower than what the lab can measure.

LD stands for “low detection.” This means that the compound was present in your water sample but the concentration is lower than 1 ppt. The actual concentration can only be estimated.

Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH
 Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Client Sample ID: PW-1 (850)

Lab Sample ID: 500-235000-1

Date Collected: 06/05/23 07:00

Matrix: Water

Date Received: 06/08/23 09:50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.7	2.2	ng/L		06/22/23 19:56	06/26/23 01:24	1
Perfluoropentanoic acid (PFPeA)	<0.46		1.9	0.46	ng/L		06/22/23 19:56	06/26/23 01:24	1
Perfluorohexanoic acid (PFHxA)	<0.54		1.9	0.54	ng/L		06/22/23 19:56	06/26/23 01:24	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.9	0.23	ng/L		06/22/23 19:56	06/26/23 01:24	1
Perfluorooctanoic acid (PFOA)	<0.79		1.9	0.79	ng/L		06/22/23 19:56	06/26/23 01:24	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		06/22/23 19:56	06/26/23 01:24	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		06/22/23 19:56	06/26/23 01:24	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		06/22/23 19:56	06/26/23 01:24	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		06/22/23 19:56	06/26/23 01:24	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		06/22/23 19:56	06/26/23 01:24	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		06/22/23 19:56	06/26/23 01:24	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.83		1.9	0.83	ng/L		06/22/23 19:56	06/26/23 01:24	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.87	*1	1.9	0.87	ng/L		06/22/23 19:56	06/26/23 01:24	1
Perfluorobutanesulfonic acid (PFBS)	0.48	J	1.9	0.19	ng/L		06/22/23 19:56	06/26/23 01:24	1
Perfluoropentanesulfonic acid (PFPeS)	0.30	J	1.9	0.28	ng/L		06/22/23 19:56	06/26/23 01:24	1
Perfluorohexanesulfonic acid (PFHxS)	<0.53		1.9	0.53	ng/L		06/22/23 19:56	06/26/23 01:24	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		06/22/23 19:56	06/26/23 01:24	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.9	0.50	ng/L		06/22/23 19:56	06/26/23 01:24	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		06/22/23 19:56	06/26/23 01:24	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		06/22/23 19:56	06/26/23 01:24	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		06/22/23 19:56	06/26/23 01:24	1
Perfluorooctanesulfonamide (FOSA)	2.0		1.9	0.91	ng/L		06/22/23 19:56	06/26/23 01:24	1
NEtFOSA	<0.81		1.9	0.81	ng/L		06/22/23 19:56	06/26/23 01:24	1
NMeFOSA	<0.40		1.9	0.40	ng/L		06/22/23 19:56	06/26/23 01:24	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		06/22/23 19:56	06/26/23 01:24	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		06/22/23 19:56	06/26/23 01:24	1
NMeFOSE	<1.3		3.7	1.3	ng/L		06/22/23 19:56	06/26/23 01:24	1
NEtFOSE	<0.79		1.9	0.79	ng/L		06/22/23 19:56	06/26/23 01:24	1
4:2 FTS	<0.22		1.9	0.22	ng/L		06/22/23 19:56	06/26/23 01:24	1
6:2 FTS	<2.3		4.7	2.3	ng/L		06/22/23 19:56	06/26/23 01:24	1
8:2 FTS	<0.43		1.9	0.43	ng/L		06/22/23 19:56	06/26/23 01:24	1
10:2 FTS	<0.62		1.9	0.62	ng/L		06/22/23 19:56	06/26/23 01:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.9	0.37	ng/L		06/22/23 19:56	06/26/23 01:24	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		06/22/23 19:56	06/26/23 01:24	1
9Cl-PF3ONS	<0.22		1.9	0.22	ng/L		06/22/23 19:56	06/26/23 01:24	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		06/22/23 19:56	06/26/23 01:24	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	93		25 - 150				06/22/23 19:56	06/26/23 01:24	1
13C5 PFPeA	99		25 - 150				06/22/23 19:56	06/26/23 01:24	1
13C2 PFHxA	100		25 - 150				06/22/23 19:56	06/26/23 01:24	1
13C4 PFHpA	96		25 - 150				06/22/23 19:56	06/26/23 01:24	1
13C4 PFOA	96		25 - 150				06/22/23 19:56	06/26/23 01:24	1
13C5 PFNA	96		25 - 150				06/22/23 19:56	06/26/23 01:24	1

Eurofins Chicago

Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH
 Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Client Sample ID: PW-1 (850)

Lab Sample ID: 500-235000-1

Date Collected: 06/05/23 07:00

Matrix: Water

Date Received: 06/08/23 09:50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFDA	103		25 - 150	06/22/23 19:56	06/26/23 01:24	1
13C2 PFUnA	95		25 - 150	06/22/23 19:56	06/26/23 01:24	1
13C2 PFDoA	86		25 - 150	06/22/23 19:56	06/26/23 01:24	1
13C2 PFTeDA	86		25 - 150	06/22/23 19:56	06/26/23 01:24	1
13C2 PFHxDA	88		25 - 150	06/22/23 19:56	06/26/23 01:24	1
13C3 PFBS	85		25 - 150	06/22/23 19:56	06/26/23 01:24	1
18O2 PFHxS	93		25 - 150	06/22/23 19:56	06/26/23 01:24	1
13C4 PFOS	94		25 - 150	06/22/23 19:56	06/26/23 01:24	1
13C8 FOSA	117		10 - 150	06/22/23 19:56	06/26/23 01:24	1
d3-NMeFOSAA	116		25 - 150	06/22/23 19:56	06/26/23 01:24	1
d5-NEtFOSAA	115		25 - 150	06/22/23 19:56	06/26/23 01:24	1
d-N-MeFOSA-M	87		10 - 150	06/22/23 19:56	06/26/23 01:24	1
d-N-EtFOSA-M	82		10 - 150	06/22/23 19:56	06/26/23 01:24	1
d7-N-MeFOSE-M	84		10 - 150	06/22/23 19:56	06/26/23 01:24	1
d9-N-EtFOSE-M	79		10 - 150	06/22/23 19:56	06/26/23 01:24	1
M2-4:2 FTS	82		25 - 150	06/22/23 19:56	06/26/23 01:24	1
M2-6:2 FTS	73		25 - 150	06/22/23 19:56	06/26/23 01:24	1
M2-8:2 FTS	72		25 - 150	06/22/23 19:56	06/26/23 01:24	1
13C3 HFPO-DA	96		25 - 150	06/22/23 19:56	06/26/23 01:24	1
13C2 10:2 FTS	75		25 - 150	06/22/23 19:56	06/26/23 01:24	1

Definitions/Glossary

Client: Short Elliott Hendrickson, Inc. dba SEH
Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Qualifiers

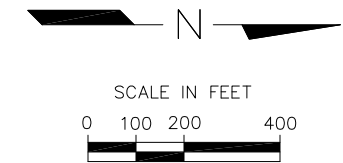
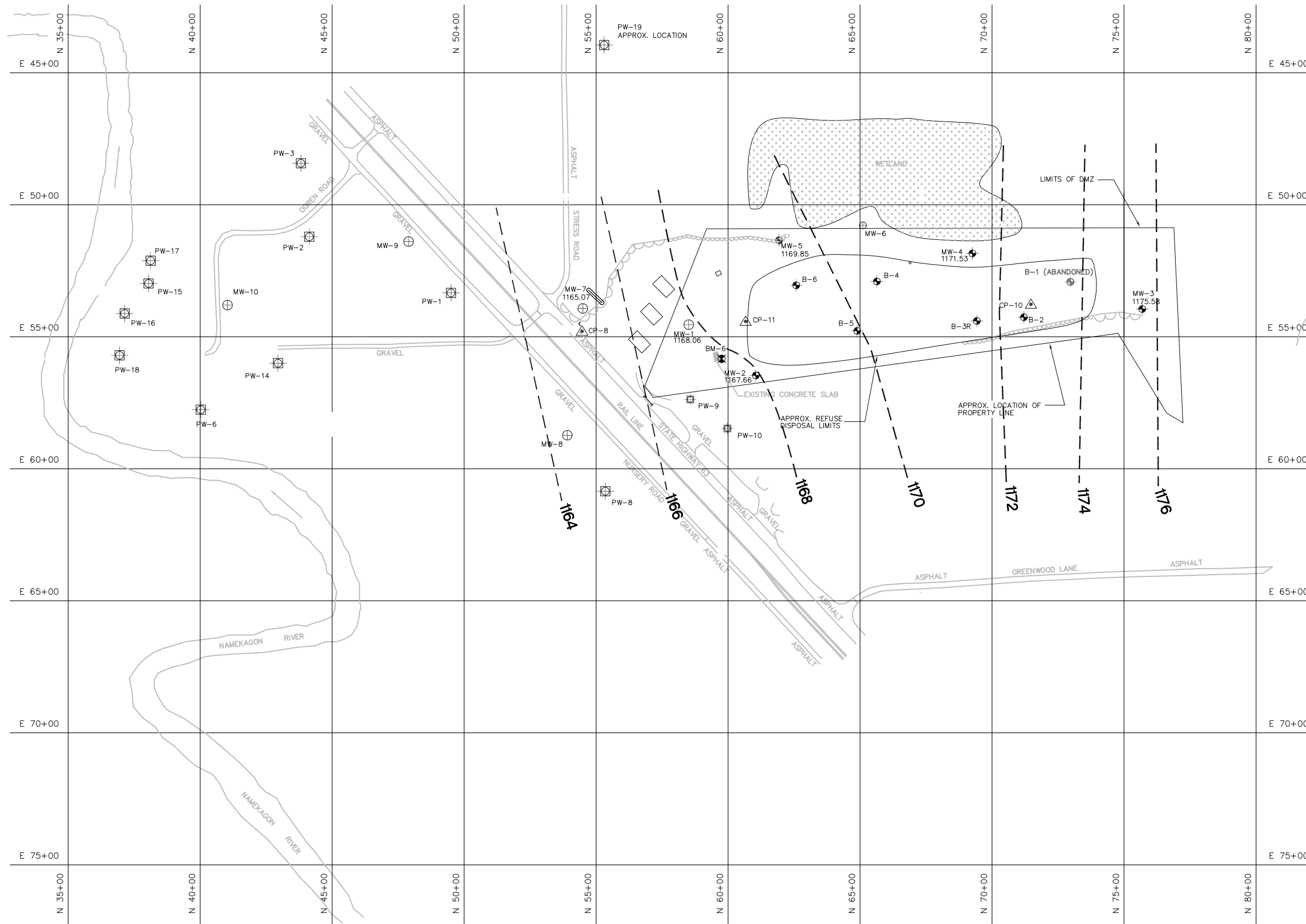
LCMS

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

DRAWING DIRECTORY: \\SEHLX\Projects\F\A\H\Haywa\135542\OMM_Report_2015\Figures\FIGURE 3



LEGEND:

- MW-2 MONITORING WELL LOCATION AND NUMBER
- MW-1 MONITORING WELL - PIEZOMETER NEST LOCATION AND NUMBER
- PW-9 PRIVATE WELL LOCATION AND NUMBER
- B-6 TEMPORARY MONITORING WELL LOCATION AND NUMBER
- BM-6 BENCHMARK LOCATION AND NUMBER
- CP-11 SURVEY CONTROL POINT LOCATION AND NUMBER
- 1172- GROUNDWATER ELEVATION CONTOUR (MSL) 5/20/21

NOTES:

1. APPROXIMATE LOCATION OF FACILITY PROPERTY LINE BASED ON MAY 29, 1984 SITE SURVEY BY ANDERSON-RITCHIE ENGINEERING + SURVEY CO.
2. APPROXIMATE REFUSE DISPOSAL LIMITS BASED ON MAY 29, 1984 SITE SURVEY BY ANDERSON-RITCHIE ENGINEERING + SURVEY CO., AND ON SITE OBSERVATIONS BY SEH.
3. PIEZOMETERS ARE LOCATED IN GENERAL LOCATION OF CORRESPONDING NUMBERED MONITORING WELLS.

SURVEY CONTROL POINTS/ BENCHMARKS			
NO.	STATION	DESCRIPTION	ELEV.
CP-8	54+47N, 54+79E	3/4" IRON PIPE	1192.86
CP-10	71+47N, 53+77E	3/4" IRON PIPE	1199.04
CP-11	60+66N, 54+42E	5/8" REBAR	1193.71
BM-6	59+75N, 55+84E	CONCRETE CORNER	1198.95

NO.	DATE	ISSUE/REVISIONS	DRAWN BY	DESIGN	FIELD REVIEW	QC CHECK
1	06/21		RJH	06/21	JEG	06/21



**PFAS INVESTIGATION
HAYWARD LANDFILL
HAYWARD, WISCONSIN**

**FIGURE 1
GROUNDWATER ELEVATION
CONTOURS**

PROJ. NO. HAYWA159031
DATE 06/23/21
FIGURE 1



Building a Better World
for All of Us®

August 22, 2023

RE: City of Hayward
PFAS Investigation
SEH No. HAYWA 171210 14.00

Linda Graham, LLC
16297 W Nursery Road
Hayward, WI 54843

Dear Linda Graham, LLC:

Please find enclosed a letter from the Wisconsin Department of Health and Human Services (DHS) summarizing the analytical results for a groundwater sample collected from your private well on June 5, 2023.

Due to elevated levels of select per- and polyfluoroalkyl substance (PFAS) constituents measured in the June 5, 2023 sample from your private well, the Wisconsin Department of Natural Resources (WDNR) has requested a follow up sample be collected. A representative from SEH will contact you soon to arrange a site visit to collect the sample.

Should you have any questions relating to the letter or results, please do not hesitate to contact me at 608.498.4844, or John Sager (WDNR) and/or Nathan Kloczko (DHS) at the respective locations referenced on the DHS letter.

Sincerely,

A handwritten signature in black ink, appearing to read "B. Kent", is written over a light blue horizontal line.

Brian L. Kent, CHMM
Project Manager

BLK/blk/BKO
Enclosure

c: John Sager, WDNR
Nathan Kloczko, DHS
John McCue, Director of Public Works, Hayward, WI.

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Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 329 Jay Street, Suite 301, La Crosse, WI 54601-4034

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Tony Evers
Governor



DIVISION OF PUBLIC HEALTH

1 WEST WILSON STREET
PO BOX 2659
MADISON WI 53701-2659

Kirsten L. Johnson
Secretary

State of Wisconsin
Department of Health Services

Telephone: 608-266-1251
Fax: 608-267-2832
TTY: 711 or 800-947-3529

August 14, 2023

Ms. Linda Graham
Linda Graham, LLC
16297 W Nursery Road
Hayward, WI 54843

**RE: Laboratory results for PFAS for the water sample collected from:
10024 North Ogren Road, Hayward**

Dear Linda Graham, LLC,

Our agency, the Department of Health Services (DHS), recently received notice from the Department of Natural Resources (DNR) of per- and polyfluoroalkyl substances (PFAS) tested in your drinking water well located at 10024 North Ogren Road, Hayward. These results are for the well labeled PW-2 on the attached figure. The table on the last page of this letter summarizes these results. The complete laboratory analytical results are also attached. **The levels of one or more PFAS were detected in your well water at levels near Wisconsin recommended public health values. We recommend you take action to reduce your exposure to PFAS:**

- Use an alternative source of water for drinking and preparing foods that take up a lot of water (like oatmeal, rice, and soup). This includes:
 - Filtered water from a pitcher, sink, or whole-house filter system with a certified filter technology. Our [Reducing PFAS in Your Drinking Water Brochure](http://www.dhs.wisconsin.gov/publications/p03012.pdf) <http://www.dhs.wisconsin.gov/publications/p03012.pdf> has information on appropriate devices.
 - Bottled water that has been purified or filtered.
 - Other sources of water that have been tested for PFAS and do not have levels above the public health values.
- Find a long-term solution. Options include installing a certified treatment device or drilling a new well.
- You can continue using the water for bathing and other household chores.

PFAS are a group of man-made chemicals that have been used in many products since the 1950s. Studies among people have shown that exposure to high levels of some PFAS can affect our health. Potential health issues include elevated cholesterol levels, decreased antibody response to certain vaccines, and reduced fertility in women. Additional health information about the health effects of PFAS can be found at www.dhs.wisconsin.gov/chemical/pfas.htm.

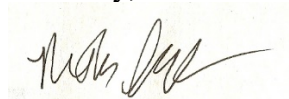
You can contact DNR and DHS with questions about PFAS or the water sample results at the numbers provided below.

DNR John Sager
 DHS Nathan Kloczko

715-919-7239
 608-867-4448

John.Sager@Wisconsin.gov
Nathan.Kloczko@dhs.wisconsin.gov

Sincerely,



Nathan Kloczko, MPH
 Site Evaluation Program Coordinator
 Bureau of Environmental and Occupational Health

Substance	Result (ng/L)	Recommended Health Value (ng/L)	Result above Recommended Health Value?
PFOS	0.9 LD		
PFOA	17		
FOSA	ND		
NEtFOSA	ND		
NEtFOSAA	ND		
NEtFOSE	ND		
Total of the six above:	17.9	20*	no
PFNA	ND	30	no
PFHxS	2.1	40	no
HFPO-DA (GenX)	ND	300	no
PFDA	ND	300	no
PFDoA	ND	50	no
DONA	ND	3,000	no
PFUnA	ND	3,000	no
PFBA	5.9	10,000	no
PFTeA	ND	10,000	no
PFHxA	2.3	150,000	no
PFODA	ND	400,000	no
PFBS	0.97 LD	450,000	no

ng/L = nanograms of substance per liter of water – equivalent to parts per trillion

*We recommend a combined health value of 20 ng/l for PFOS, PFOA, FOSA, NEtFOSA, NEtFOSAA, and NEtFOSE.

ND stands for “not detected.” This means that the compound may not be present in your water, or if it is present, it is at a level lower than what the lab can measure.

LD stands for “low detection.” This means that the compound was present in your water sample but the concentration is lower than 1 ppt. The actual concentration can only be estimated.

Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH
 Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Client Sample ID: PW-2 (851)

Lab Sample ID: 500-235000-2

Date Collected: 06/05/23 07:15

Matrix: Water

Date Received: 06/08/23 09:50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.9		4.7	2.3	ng/L		06/22/23 19:56	06/26/23 01:34	1
Perfluoropentanoic acid (PFPeA)	3.2		1.9	0.46	ng/L		06/22/23 19:56	06/26/23 01:34	1
Perfluorohexanoic acid (PFHxA)	2.3		1.9	0.55	ng/L		06/22/23 19:56	06/26/23 01:34	1
Perfluoroheptanoic acid (PFHpA)	2.8		1.9	0.24	ng/L		06/22/23 19:56	06/26/23 01:34	1
Perfluorooctanoic acid (PFOA)	17		1.9	0.80	ng/L		06/22/23 19:56	06/26/23 01:34	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		06/22/23 19:56	06/26/23 01:34	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		06/22/23 19:56	06/26/23 01:34	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		06/22/23 19:56	06/26/23 01:34	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		06/22/23 19:56	06/26/23 01:34	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		06/22/23 19:56	06/26/23 01:34	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		06/22/23 19:56	06/26/23 01:34	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.84		1.9	0.84	ng/L		06/22/23 19:56	06/26/23 01:34	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.89	*1	1.9	0.89	ng/L		06/22/23 19:56	06/26/23 01:34	1
Perfluorobutanesulfonic acid (PFBS)	0.97	J	1.9	0.19	ng/L		06/22/23 19:56	06/26/23 01:34	1
Perfluoropentanesulfonic acid (PFPeS)	0.84	J	1.9	0.28	ng/L		06/22/23 19:56	06/26/23 01:34	1
Perfluorohexanesulfonic acid (PFHxS)	2.1		1.9	0.54	ng/L		06/22/23 19:56	06/26/23 01:34	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		06/22/23 19:56	06/26/23 01:34	1
Perfluorooctanesulfonic acid (PFOS)	0.90	J I	1.9	0.51	ng/L		06/22/23 19:56	06/26/23 01:34	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		06/22/23 19:56	06/26/23 01:34	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		06/22/23 19:56	06/26/23 01:34	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		06/22/23 19:56	06/26/23 01:34	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		06/22/23 19:56	06/26/23 01:34	1
NEtFOSA	<0.82		1.9	0.82	ng/L		06/22/23 19:56	06/26/23 01:34	1
NMeFOSA	<0.40		1.9	0.40	ng/L		06/22/23 19:56	06/26/23 01:34	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		06/22/23 19:56	06/26/23 01:34	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		06/22/23 19:56	06/26/23 01:34	1
NMeFOSE	<1.3		3.8	1.3	ng/L		06/22/23 19:56	06/26/23 01:34	1
NEtFOSE	<0.80		1.9	0.80	ng/L		06/22/23 19:56	06/26/23 01:34	1
4:2 FTS	<0.23		1.9	0.23	ng/L		06/22/23 19:56	06/26/23 01:34	1
6:2 FTS	<2.4		4.7	2.4	ng/L		06/22/23 19:56	06/26/23 01:34	1
8:2 FTS	<0.43		1.9	0.43	ng/L		06/22/23 19:56	06/26/23 01:34	1
10:2 FTS	<0.63		1.9	0.63	ng/L		06/22/23 19:56	06/26/23 01:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		06/22/23 19:56	06/26/23 01:34	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		06/22/23 19:56	06/26/23 01:34	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		06/22/23 19:56	06/26/23 01:34	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		06/22/23 19:56	06/26/23 01:34	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	82		25 - 150				06/22/23 19:56	06/26/23 01:34	1
13C5 PFPeA	94		25 - 150				06/22/23 19:56	06/26/23 01:34	1
13C2 PFHxA	97		25 - 150				06/22/23 19:56	06/26/23 01:34	1
13C4 PFHpA	95		25 - 150				06/22/23 19:56	06/26/23 01:34	1
13C4 PFOA	93		25 - 150				06/22/23 19:56	06/26/23 01:34	1

Eurofins Chicago

Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH
 Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Client Sample ID: PW-2 (851)

Lab Sample ID: 500-235000-2

Date Collected: 06/05/23 07:15

Matrix: Water

Date Received: 06/08/23 09:50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFNA	95		25 - 150	06/22/23 19:56	06/26/23 01:34	1
13C2 PFDA	96		25 - 150	06/22/23 19:56	06/26/23 01:34	1
13C2 PFUnA	86		25 - 150	06/22/23 19:56	06/26/23 01:34	1
13C2 PFDoA	85		25 - 150	06/22/23 19:56	06/26/23 01:34	1
13C2 PFTeDA	86		25 - 150	06/22/23 19:56	06/26/23 01:34	1
13C2 PFHxDA	83		25 - 150	06/22/23 19:56	06/26/23 01:34	1
13C3 PFBS	83		25 - 150	06/22/23 19:56	06/26/23 01:34	1
18O2 PFHxS	92		25 - 150	06/22/23 19:56	06/26/23 01:34	1
13C4 PFOS	88		25 - 150	06/22/23 19:56	06/26/23 01:34	1
13C8 FOSA	118		10 - 150	06/22/23 19:56	06/26/23 01:34	1
d3-NMeFOSAA	112		25 - 150	06/22/23 19:56	06/26/23 01:34	1
d5-NEtFOSAA	109		25 - 150	06/22/23 19:56	06/26/23 01:34	1
d-N-MeFOSA-M	83		10 - 150	06/22/23 19:56	06/26/23 01:34	1
d-N-EtFOSA-M	79		10 - 150	06/22/23 19:56	06/26/23 01:34	1
d7-N-MeFOSE-M	82		10 - 150	06/22/23 19:56	06/26/23 01:34	1
d9-N-EtFOSE-M	74		10 - 150	06/22/23 19:56	06/26/23 01:34	1
M2-4:2 FTS	84		25 - 150	06/22/23 19:56	06/26/23 01:34	1
M2-6:2 FTS	70		25 - 150	06/22/23 19:56	06/26/23 01:34	1
M2-8:2 FTS	66		25 - 150	06/22/23 19:56	06/26/23 01:34	1
13C3 HFPO-DA	92		25 - 150	06/22/23 19:56	06/26/23 01:34	1
13C2 10:2 FTS	71		25 - 150	06/22/23 19:56	06/26/23 01:34	1

Definitions/Glossary

Client: Short Elliott Hendrickson, Inc. dba SEH
Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Qualifiers

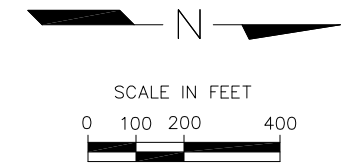
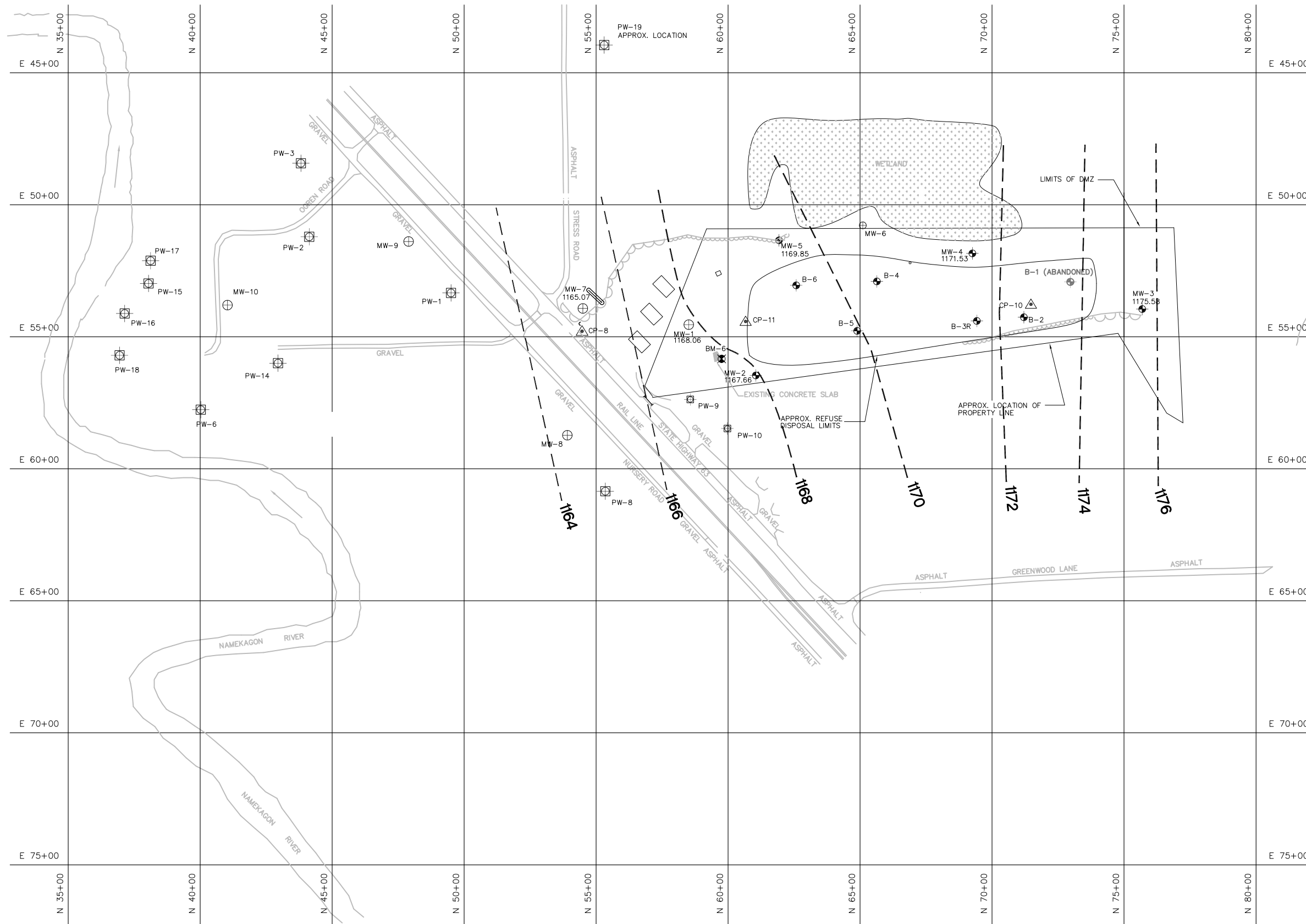
LCMS

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

DRAWING DIRECTORY: \\SEHLX\Projects\F\A\H\Haywa\135542\OMM_Report_2015\Figures\FIGURE 3



LEGEND:

- MW-2 MONITORING WELL LOCATION AND NUMBER
- MW-1 MONITORING WELL - PIEZOMETER NEST LOCATION AND NUMBER
- PW-9 PRIVATE WELL LOCATION AND NUMBER
- B-6 TEMPORARY MONITORING WELL LOCATION AND NUMBER
- BM-6 BENCHMARK LOCATION AND NUMBER
- CP-11 SURVEY CONTROL POINT LOCATION AND NUMBER
- 1172- GROUNDWATER ELEVATION CONTOUR (MSL) 5/20/21

NOTES:

1. APPROXIMATE LOCATION OF FACILITY PROPERTY LINE BASED ON MAY 29, 1984 SITE SURVEY BY ANDERSON-RITCHIE ENGINEERING + SURVEY CO.
2. APPROXIMATE REFUSE DISPOSAL LIMITS BASED ON MAY 29, 1984 SITE SURVEY BY ANDERSON-RITCHIE ENGINEERING + SURVEY CO., AND ON SITE OBSERVATIONS BY SEH.
3. PIEZOMETERS ARE LOCATED IN GENERAL LOCATION OF CORRESPONDING NUMBERED MONITORING WELLS.

SURVEY CONTROL POINTS/ BENCHMARKS			
NO.	STATION	DESCRIPTION	ELEV.
CP-8	54+47N, 54+79E	3/4" IRON PIPE	1192.86
CP-10	71+47N, 53+77E	3/4" IRON PIPE	1199.04
CP-11	60+66N, 54+42E	5/8" REBAR	1193.71
BM-6	59+75N, 55+84E	CONCRETE CORNER	1198.95

NO.	DATE	ISSUE/REVISIONS	DRAWN BY	DESIGN	FIELD REVIEW	QC CHECK
1	06/21		RJH	JEG	JEG	



**PFAS INVESTIGATION
HAYWARD LANDFILL
HAYWARD, WISCONSIN**

**FIGURE 1
GROUNDWATER ELEVATION
CONTOURS**

PROJ. NO. HAYWA159031
DATE 06/23/21
FIGURE 1



Building a Better World
for All of Us®

August 22, 2023

RE: City of Hayward
PFAS Investigation
SEH No. HAYWA 171210 14.00

Anthony and Martha Wolowicz
9967 N Orgen Road
Hayward, WI 54843

Dear Mr. and Mrs. Wolowicz:

Please find enclosed a letter from the Wisconsin Department of Health and Human Services (DHS) summarizing the per- and polyfluoroalkyl substances (PFAS) analytical results for a groundwater sample collected from your private well on June 5, 2023.

Should you have any questions relating to the letter or results, please do not hesitate to contact me at 608.498.4844, or John Sager (Wisconsin Department of Natural Resources (WDNR)) and/or Nathan Kloczko (DHS) at the respective locations referenced on the DHS letter.

Sincerely,

A handwritten signature in black ink, appearing to read "B. Kent", is written over a light blue horizontal line.

Brian L. Kent, CHMM
Project Manager

BLK/blk/BKO
Enclosure

c: John Sager, WDNR
Nathan Kloczko, DHS
John McCue, Director of Public Works, Hayward, WI.

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Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 329 Jay Street, Suite 301, La Crosse, WI 54601-4034

608.782.3161 | 888.908.8166 fax | sehinc.com

SEH is 100% employee-owned | Affirmative Action–Equal Opportunity Employer

Tony Evers
Governor



DIVISION OF PUBLIC HEALTH

1 WEST WILSON STREET
PO BOX 2659
MADISON WI 53701-2659

Kirsten L. Johnson
Secretary

State of Wisconsin
Department of Health Services

Telephone: 608-266-1251
Fax: 608-267-2832
TTY: 711 or 800-947-3529

August 14, 2023

Anthony and Martha Wolowicz
9967 North Ogren Road
Hayward, WI 54843

**RE: Laboratory results for PFAS for water sample collected from
9967 North Ogren Road, Hayward**

Dear Anthony and Martha Wolowicz,

Our agency, the Department of Health Services (DHS), recently received notice from the Department of Natural Resources (DNR) of well test results from your drinking water well located at 9967 North Ogren Road, Hayward. The table on the last page of this letter summarizes these results. The complete laboratory analytical results are also attached. In this letter, we will discuss PFAS levels tested for in your well. **The results show that one or more PFAS were found in your well, but not above Wisconsin recommended public health values. You can continue to use the water as you normally would, but you can still take action to reduce PFAS exposure.**

Actions you can take to reduce your exposure to PFAS include the following:

- Use an alternative source of water for drinking and preparing foods that take up a lot of water (like oatmeal, rice, or soup). This includes:
 - Filtered water from a pitcher, sink, or whole-house filter system with a certified filter technology. Our [Reducing PFAS in Your Drinking Water Brochure](http://www.dhs.wisconsin.gov/publications/p03012.pdf) (<http://www.dhs.wisconsin.gov/publications/p03012.pdf>) has information on appropriate devices.
 - Bottled water that has been purified or filtered.
 - Other sources of water that have been tested for PFAS and do not have levels above the public health values.
- Follow fish consumption advisories, vacuum frequently, and avoid consumer products that contain PFAS.

PFAS are a group of man-made chemicals that have been used in many products since the 1950s. Studies among people have shown that exposure to high levels of some PFAS can affect our health. Potential health issues include elevated cholesterol levels, decreased antibody response to certain vaccines, and reduced fertility in women. Additional health information about the health effects of PFAS can be found at www.dhs.wisconsin.gov/chemical/pfas.htm.

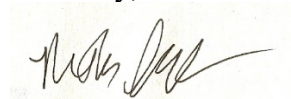
You can contact DNR and DHS with questions about PFAS or the water sample results at the numbers provided below.

DNR John Sager
 DHS Nathan Kloczko

715-919-7239
 608-867-4448

John.Sager@Wisconsin.gov
Nathan.Kloczko@dhs.wisconsin.gov

Sincerely,



Nathan Kloczko, MPH
 Site Evaluation Program Coordinator
 Bureau of Environmental and Occupational Health

Substance	Result (ng/L)	Recommended Health Value (ng/L)	Result above Recommended Health Value?
PFOS	ND		
PFOA	ND		
FOSA	2.1		
NEtFOSA	ND		
NEtFOSAA	ND		
NEtFOSE	ND		
Total of the six above:	2.1	20*	no
PFNA	ND	30	no
PFHxS	0.75	40	no
HFPO-DA (GenX)	ND	300	no
PFDA	ND	300	no
PFDoA	ND	50	no
DONA	ND	3,000	no
PFUnA	ND	3,000	no
PFBA	ND	10,000	no
PFTeA	ND	10,000	no
PFHxA	ND	150,000	no
PFODA	ND	400,000	no
PFBS	1.9	450,000	no

ng/L = nanograms of substance per liter of water – equivalent to parts per trillion

*We recommend a combined health value of 20 ng/l for PFOS, PFOA, FOSA, NEtFOSA, NEtFOSAA, and NEtFOSE.

ND stands for “not detected.” This means that the compound may not be present in your water, or if it is present, it is at a level lower than what the lab can measure.

LD stands for “low detection.” This means that the compound was present in your water sample but the concentration is lower than 1 ppt. The actual concentration can only be estimated.

Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH
 Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Client Sample ID: PW-6 (853)

Lab Sample ID: 500-235000-8

Date Collected: 06/05/23 10:00

Matrix: Water

Date Received: 06/08/23 09:50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.5	2.2	ng/L		06/22/23 19:56	06/26/23 02:35	1
Perfluoropentanoic acid (PFPeA)	<0.44		1.8	0.44	ng/L		06/22/23 19:56	06/26/23 02:35	1
Perfluorohexanoic acid (PFHxA)	<0.53		1.8	0.53	ng/L		06/22/23 19:56	06/26/23 02:35	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		06/22/23 19:56	06/26/23 02:35	1
Perfluorooctanoic acid (PFOA)	<0.77		1.8	0.77	ng/L		06/22/23 19:56	06/26/23 02:35	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		06/22/23 19:56	06/26/23 02:35	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		06/22/23 19:56	06/26/23 02:35	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		06/22/23 19:56	06/26/23 02:35	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		06/22/23 19:56	06/26/23 02:35	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		06/22/23 19:56	06/26/23 02:35	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		06/22/23 19:56	06/26/23 02:35	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.81		1.8	0.81	ng/L		06/22/23 19:56	06/26/23 02:35	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.85	*1	1.8	0.85	ng/L		06/22/23 19:56	06/26/23 02:35	1
Perfluorobutanesulfonic acid (PFBS)	1.9		1.8	0.18	ng/L		06/22/23 19:56	06/26/23 02:35	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		06/22/23 19:56	06/26/23 02:35	1
Perfluorohexanesulfonic acid (PFHxS)	0.75	JI	1.8	0.52	ng/L		06/22/23 19:56	06/26/23 02:35	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		06/22/23 19:56	06/26/23 02:35	1
Perfluorooctanesulfonic acid (PFOS)	<0.49		1.8	0.49	ng/L		06/22/23 19:56	06/26/23 02:35	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		06/22/23 19:56	06/26/23 02:35	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		06/22/23 19:56	06/26/23 02:35	1
Perfluorododecanesulfonic acid (PFDoS)	<0.88		1.8	0.88	ng/L		06/22/23 19:56	06/26/23 02:35	1
Perfluorooctanesulfonamide (FOSA)	2.1		1.8	0.89	ng/L		06/22/23 19:56	06/26/23 02:35	1
NEtFOSA	<0.79		1.8	0.79	ng/L		06/22/23 19:56	06/26/23 02:35	1
NMeFOSA	<0.39		1.8	0.39	ng/L		06/22/23 19:56	06/26/23 02:35	1
NMeFOSAA	<1.1		4.5	1.1	ng/L		06/22/23 19:56	06/26/23 02:35	1
NEtFOSAA	<1.2		4.5	1.2	ng/L		06/22/23 19:56	06/26/23 02:35	1
NMeFOSE	<1.3		3.6	1.3	ng/L		06/22/23 19:56	06/26/23 02:35	1
NEtFOSE	<0.77		1.8	0.77	ng/L		06/22/23 19:56	06/26/23 02:35	1
4:2 FTS	<0.22		1.8	0.22	ng/L		06/22/23 19:56	06/26/23 02:35	1
6:2 FTS	<2.3		4.5	2.3	ng/L		06/22/23 19:56	06/26/23 02:35	1
8:2 FTS	<0.42		1.8	0.42	ng/L		06/22/23 19:56	06/26/23 02:35	1
10:2 FTS	<0.61		1.8	0.61	ng/L		06/22/23 19:56	06/26/23 02:35	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		06/22/23 19:56	06/26/23 02:35	1
HFPO-DA (GenX)	<1.4		3.6	1.4	ng/L		06/22/23 19:56	06/26/23 02:35	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		06/22/23 19:56	06/26/23 02:35	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		06/22/23 19:56	06/26/23 02:35	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	92		25 - 150				06/22/23 19:56	06/26/23 02:35	1
13C5 PFPeA	96		25 - 150				06/22/23 19:56	06/26/23 02:35	1
13C2 PFHxA	94		25 - 150				06/22/23 19:56	06/26/23 02:35	1
13C4 PFHpA	96		25 - 150				06/22/23 19:56	06/26/23 02:35	1
13C4 PFOA	94		25 - 150				06/22/23 19:56	06/26/23 02:35	1

Eurofins Chicago

Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH
 Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Client Sample ID: PW-6 (853)

Lab Sample ID: 500-235000-8

Date Collected: 06/05/23 10:00

Matrix: Water

Date Received: 06/08/23 09:50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFNA	96		25 - 150	06/22/23 19:56	06/26/23 02:35	1
13C2 PFDA	101		25 - 150	06/22/23 19:56	06/26/23 02:35	1
13C2 PFUnA	99		25 - 150	06/22/23 19:56	06/26/23 02:35	1
13C2 PFDoA	95		25 - 150	06/22/23 19:56	06/26/23 02:35	1
13C2 PFTeDA	99		25 - 150	06/22/23 19:56	06/26/23 02:35	1
13C2 PFHxDA	89		25 - 150	06/22/23 19:56	06/26/23 02:35	1
13C3 PFBS	86		25 - 150	06/22/23 19:56	06/26/23 02:35	1
18O2 PFHxS	92		25 - 150	06/22/23 19:56	06/26/23 02:35	1
13C4 PFOS	92		25 - 150	06/22/23 19:56	06/26/23 02:35	1
13C8 FOSA	116		10 - 150	06/22/23 19:56	06/26/23 02:35	1
d3-NMeFOSAA	124		25 - 150	06/22/23 19:56	06/26/23 02:35	1
d5-NEtFOSAA	118		25 - 150	06/22/23 19:56	06/26/23 02:35	1
d-N-MeFOSA-M	92		10 - 150	06/22/23 19:56	06/26/23 02:35	1
d-N-EtFOSA-M	82		10 - 150	06/22/23 19:56	06/26/23 02:35	1
d7-N-MeFOSE-M	91		10 - 150	06/22/23 19:56	06/26/23 02:35	1
d9-N-EtFOSE-M	89		10 - 150	06/22/23 19:56	06/26/23 02:35	1
M2-4:2 FTS	79		25 - 150	06/22/23 19:56	06/26/23 02:35	1
M2-6:2 FTS	73		25 - 150	06/22/23 19:56	06/26/23 02:35	1
M2-8:2 FTS	70		25 - 150	06/22/23 19:56	06/26/23 02:35	1
13C3 HFPO-DA	97		25 - 150	06/22/23 19:56	06/26/23 02:35	1
13C2 10:2 FTS	79		25 - 150	06/22/23 19:56	06/26/23 02:35	1

Definitions/Glossary

Client: Short Elliott Hendrickson, Inc. dba SEH
Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



Building a Better World
for All of Us®

August 22, 2023

RE: City of Hayward
PFAS Investigation
SEH No. HAYWA 171210 14.00

Duane L. Asp
16245 W Nursery Road
Hayward WI 54843

Dear Mr. Asp:

Please find enclosed a letter from the Wisconsin Department of Health and Human Services (DHS) summarizing the per- and polyfluoroalkyl substances (PFAS) analytical results for a groundwater sample collected from your private well on June 5, 2023.

Should you have any questions relating to the letter or results, please do not hesitate to contact me at 608.498.4844, or John Sager (Wisconsin Department of Natural Resources (WDNR)) and/or Nathan Kloczko (DHS) at the respective locations referenced on the DHS letter.

Sincerely,

A handwritten signature in black ink, appearing to read "B. Kent", is written over a light blue horizontal line.

Brian L. Kent, CHMM
Project Manager

BLK/blk/BKO
Enclosure

c: John Sager, WDNR
Nathan Kloczko, DHS
John McCue, Director of Public Works, Hayward, WI.

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Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 329 Jay Street, Suite 301, La Crosse, WI 54601-4034

608.782.3161 | 888.908.8166 fax | sehinc.com

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Tony Evers
Governor



DIVISION OF PUBLIC HEALTH

1 WEST WILSON STREET
PO BOX 2659
MADISON WI 53701-2659

Kirsten L. Johnson
Secretary

State of Wisconsin
Department of Health Services

Telephone: 608-266-1251
Fax: 608-267-2832
TTY: 711 or 800-947-3529

August 14, 2023

Duane Asp
16245 West Nursery Road
Hayward, WI 54843

**RE: Laboratory results for PFAS for water sample collected from
16245 West Nursery Road, Hayward**

Dear Duane Asp,

Our agency, the Department of Health Services (DHS), recently received notice from the Department of Natural Resources (DNR) of well test results from your drinking water well located at 16245 West Nursery Road, Hayward. The table on the last page of this letter summarizes these results. The complete laboratory analytical results are also attached. In this letter, we will discuss PFAS levels tested for in your well. **The results show that one or more PFAS were found in your well, but not above Wisconsin recommended public health values. You can continue to use the water as you normally would, but you can still take action to reduce PFAS exposure.**

Actions you can take to reduce your exposure to PFAS include the following:

- Use an alternative source of water for drinking and preparing foods that take up a lot of water (like oatmeal, rice, or soup). This includes:
 - Filtered water from a pitcher, sink, or whole-house filter system with a certified filter technology. Our [Reducing PFAS in Your Drinking Water Brochure](http://www.dhs.wisconsin.gov/publications/p03012.pdf) <http://www.dhs.wisconsin.gov/publications/p03012.pdf> has information on appropriate devices.
 - Bottled water that has been purified or filtered.
 - Other sources of water that have been tested for PFAS and do not have levels above the public health values.
- Follow fish consumption advisories, vacuum frequently, and avoid consumer products that contain PFAS.

PFAS are a group of man-made chemicals that have been used in many products since the 1950s. Studies among people have shown that exposure to high levels of some PFAS can affect our health. Potential health issues include elevated cholesterol levels, decreased antibody response to certain vaccines, and reduced fertility in women. Additional health information about the health effects of PFAS can be found at www.dhs.wisconsin.gov/chemical/pfas.htm.

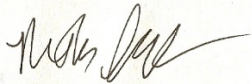
You can contact DNR and DHS with questions about PFAS or the water sample results at the numbers provided below.

DNR John Sager
DHS Nathan Kloczko

715-919-7239
608-867-4448

John.Sager@Wisconsin.gov
Nathan.Kloczko@dhs.wisconsin.gov

Sincerely,



Nathan Kloczko, MPH
Site Evaluation Program Coordinator
Bureau of Environmental and Occupational Health

Substance	Result (ng/L)	Recommended Health Value (ng/L)	Result above Recommended Health Value?
PFOS	ND		
PFOA	ND		
FOSA	1.9		
NEtFOSA	ND		
NEtFOSAA	ND		
NEtFOSE	ND		
Total of the six above:	1.9	20*	no
PFNA	ND	30	no
PFHxS	0.75	40	no
HFPO-DA (GenX)	ND	300	no
PFDA	ND	300	no
PFDoA	ND	50	no
DONA	ND	3,000	no
PFUnA	ND	3,000	no
PFBA	ND	10,000	no
PFTeA	ND	10,000	no
PFHxA	ND	150,000	no
PFODA	ND	400,000	no
PFBS	7.5	450,000	no

ng/L = nanograms of substance per liter of water – equivalent to parts per trillion

*We recommend a combined health value of 20 ng/l for PFOS, PFOA, FOSA, NEtFOSA, NEtFOSAA, and NEtFOSE.

ND stands for “not detected.” This means that the compound may not be present in your water, or if it is present, it is at a level lower than what the lab can measure.

LD stands for “low detection.” This means that the compound was present in your water sample but the concentration is lower than 1 ppt. The actual concentration can only be estimated.

Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH
 Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Client Sample ID: PW-8 (854)

Lab Sample ID: 500-235000-3

Date Collected: 06/05/23 08:00

Matrix: Water

Date Received: 06/08/23 09:50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.0		4.3	2.0	ng/L		06/22/23 19:56	06/26/23 01:44	1
Perfluoropentanoic acid (PFPeA)	<0.42		1.7	0.42	ng/L		06/22/23 19:56	06/26/23 01:44	1
Perfluorohexanoic acid (PFHxA)	<0.49		1.7	0.49	ng/L		06/22/23 19:56	06/26/23 01:44	1
Perfluoroheptanoic acid (PFHpA)	<0.21		1.7	0.21	ng/L		06/22/23 19:56	06/26/23 01:44	1
Perfluorooctanoic acid (PFOA)	<0.72		1.7	0.72	ng/L		06/22/23 19:56	06/26/23 01:44	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		06/22/23 19:56	06/26/23 01:44	1
Perfluorodecanoic acid (PFDA)	<0.26		1.7	0.26	ng/L		06/22/23 19:56	06/26/23 01:44	1
Perfluoroundecanoic acid (PFUnA)	<0.94		1.7	0.94	ng/L		06/22/23 19:56	06/26/23 01:44	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		06/22/23 19:56	06/26/23 01:44	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		06/22/23 19:56	06/26/23 01:44	1
Perfluorotetradecanoic acid (PFTeA)	<0.62		1.7	0.62	ng/L		06/22/23 19:56	06/26/23 01:44	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.76		1.7	0.76	ng/L		06/22/23 19:56	06/26/23 01:44	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.80	*1	1.7	0.80	ng/L		06/22/23 19:56	06/26/23 01:44	1
Perfluorobutanesulfonic acid (PFBS)	7.5		1.7	0.17	ng/L		06/22/23 19:56	06/26/23 01:44	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		06/22/23 19:56	06/26/23 01:44	1
Perfluorohexanesulfonic acid (PFHxS)	0.75	J	1.7	0.49	ng/L		06/22/23 19:56	06/26/23 01:44	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.16		1.7	0.16	ng/L		06/22/23 19:56	06/26/23 01:44	1
Perfluorooctanesulfonic acid (PFOS)	<0.46		1.7	0.46	ng/L		06/22/23 19:56	06/26/23 01:44	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		06/22/23 19:56	06/26/23 01:44	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		06/22/23 19:56	06/26/23 01:44	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83		1.7	0.83	ng/L		06/22/23 19:56	06/26/23 01:44	1
Perfluorooctanesulfonamide (FOSA)	1.9		1.7	0.83	ng/L		06/22/23 19:56	06/26/23 01:44	1
NEtFOSA	<0.74		1.7	0.74	ng/L		06/22/23 19:56	06/26/23 01:44	1
NMeFOSA	<0.37		1.7	0.37	ng/L		06/22/23 19:56	06/26/23 01:44	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		06/22/23 19:56	06/26/23 01:44	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		06/22/23 19:56	06/26/23 01:44	1
NMeFOSE	<1.2		3.4	1.2	ng/L		06/22/23 19:56	06/26/23 01:44	1
NEtFOSE	<0.72		1.7	0.72	ng/L		06/22/23 19:56	06/26/23 01:44	1
4:2 FTS	<0.20		1.7	0.20	ng/L		06/22/23 19:56	06/26/23 01:44	1
6:2 FTS	<2.1		4.3	2.1	ng/L		06/22/23 19:56	06/26/23 01:44	1
8:2 FTS	<0.39		1.7	0.39	ng/L		06/22/23 19:56	06/26/23 01:44	1
10:2 FTS	<0.57		1.7	0.57	ng/L		06/22/23 19:56	06/26/23 01:44	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		06/22/23 19:56	06/26/23 01:44	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		06/22/23 19:56	06/26/23 01:44	1
9Cl-PF3ONS	<0.20		1.7	0.20	ng/L		06/22/23 19:56	06/26/23 01:44	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		06/22/23 19:56	06/26/23 01:44	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	90		25 - 150				06/22/23 19:56	06/26/23 01:44	1
13C5 PFPeA	97		25 - 150				06/22/23 19:56	06/26/23 01:44	1
13C2 PFHxA	95		25 - 150				06/22/23 19:56	06/26/23 01:44	1
13C4 PFHpA	95		25 - 150				06/22/23 19:56	06/26/23 01:44	1
13C4 PFOA	93		25 - 150				06/22/23 19:56	06/26/23 01:44	1

Eurofins Chicago

Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH
 Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Client Sample ID: PW-8 (854)

Lab Sample ID: 500-235000-3

Date Collected: 06/05/23 08:00

Matrix: Water

Date Received: 06/08/23 09:50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFNA	96		25 - 150	06/22/23 19:56	06/26/23 01:44	1
13C2 PFDA	95		25 - 150	06/22/23 19:56	06/26/23 01:44	1
13C2 PFUnA	90		25 - 150	06/22/23 19:56	06/26/23 01:44	1
13C2 PFDoA	85		25 - 150	06/22/23 19:56	06/26/23 01:44	1
13C2 PFTeDA	88		25 - 150	06/22/23 19:56	06/26/23 01:44	1
13C2 PFHxDA	87		25 - 150	06/22/23 19:56	06/26/23 01:44	1
13C3 PFBS	87		25 - 150	06/22/23 19:56	06/26/23 01:44	1
18O2 PFHxS	94		25 - 150	06/22/23 19:56	06/26/23 01:44	1
13C4 PFOS	94		25 - 150	06/22/23 19:56	06/26/23 01:44	1
13C8 FOSA	111		10 - 150	06/22/23 19:56	06/26/23 01:44	1
d3-NMeFOSAA	111		25 - 150	06/22/23 19:56	06/26/23 01:44	1
d5-NEtFOSAA	101		25 - 150	06/22/23 19:56	06/26/23 01:44	1
d-N-MeFOSA-M	84		10 - 150	06/22/23 19:56	06/26/23 01:44	1
d-N-EtFOSA-M	76		10 - 150	06/22/23 19:56	06/26/23 01:44	1
d7-N-MeFOSE-M	84		10 - 150	06/22/23 19:56	06/26/23 01:44	1
d9-N-EtFOSE-M	77		10 - 150	06/22/23 19:56	06/26/23 01:44	1
M2-4:2 FTS	81		25 - 150	06/22/23 19:56	06/26/23 01:44	1
M2-6:2 FTS	72		25 - 150	06/22/23 19:56	06/26/23 01:44	1
M2-8:2 FTS	67		25 - 150	06/22/23 19:56	06/26/23 01:44	1
13C3 HFPO-DA	95		25 - 150	06/22/23 19:56	06/26/23 01:44	1
13C2 10:2 FTS	74		25 - 150	06/22/23 19:56	06/26/23 01:44	1

Definitions/Glossary

Client: Short Elliott Hendrickson, Inc. dba SEH
Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



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August 22, 2023

RE: City of Hayward
PFAS Investigation
SEH No. HAYWA 171210 14.00

Greg and Colleen Neff
P O Box 366
Hayward WI 54843

Dear Mr. and Mrs. Neff:

Please find enclosed a letter from the Wisconsin Department of Health and Human Services (DHS) summarizing the per- and polyfluoroalkyl substances (PFAS) analytical results for a groundwater sample collected from your private well on June 5, 2023.

Should you have any questions relating to the letter or results, please do not hesitate to contact me at 608.498.4844, or John Sager (Wisconsin Department of Natural Resources (WDNR)) and/or Nathan Kloczko (DHS) at the respective locations referenced on the DHS letter.

Sincerely,

A handwritten signature in black ink, appearing to read "B. Kent", is written over a light blue horizontal line.

Brian L. Kent, CHMM
Project Manager

BLK/blk/BKO
Enclosure

c: John Sager, WDNR
Nathan Kloczko, DHS
John McCue, Director of Public Works, Hayward, WI.

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DIVISION OF PUBLIC HEALTH

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Secretary

State of Wisconsin
Department of Health Services

Telephone: 608-266-1251
Fax: 608-267-2832
TTY: 711 or 800-947-3529

August 14, 2023

Greg and Colleen Neff
P.O. Box 366
Hayward, WI 54843

**RE: Laboratory results for PFAS for water sample collected from
16252 West US Highway 63, Hayward**

Dear Greg and Colleen Neff,

Our agency, the Department of Health Services (DHS), recently received notice from the Department of Natural Resources (DNR) of well test results from your drinking water well located at 16252 West US Highway 63, Hayward. The table on the last page of this letter summarizes these results. The complete laboratory analytical results are also attached. In this letter, we will discuss PFAS levels tested for in your well. **The results show that one or more PFAS were found in your well, but not above Wisconsin recommended public health values. You can continue to use the water as you normally would, but you can still take action to reduce PFAS exposure.**

Actions you can take to reduce your exposure to PFAS include the following:

- Use an alternative source of water for drinking and preparing foods that take up a lot of water (like oatmeal, rice, or soup). This includes:
 - Filtered water from a pitcher, sink, or whole-house filter system with a certified filter technology. Our [Reducing PFAS in Your Drinking Water Brochure](http://www.dhs.wisconsin.gov/publications/p03012.pdf) <http://www.dhs.wisconsin.gov/publications/p03012.pdf> has information on appropriate devices.
 - Bottled water that has been purified or filtered.
 - Other sources of water that have been tested for PFAS and do not have levels above the public health values.
- Follow fish consumption advisories, vacuum frequently, and avoid consumer products that contain PFAS.

PFAS are a group of man-made chemicals that have been used in many products since the 1950s. Studies among people have shown that exposure to high levels of some PFAS can affect our health. Potential health issues include elevated cholesterol levels, decreased antibody response to certain vaccines, and reduced fertility in women. Additional health information about the health effects of PFAS can be found at www.dhs.wisconsin.gov/chemical/pfas.htm.

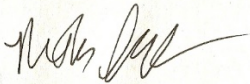
You can contact DNR and DHS with questions about PFAS or the water sample results at the numbers provided below.

DNR John Sager
 DHS Nathan Kloczko

715-919-7239
 608-867-4448

John.Sager@Wisconsin.gov
Nathan.Kloczko@dhs.wisconsin.gov

Sincerely,



Nathan Kloczko, MPH
 Site Evaluation Program Coordinator
 Bureau of Environmental and Occupational Health

Substance	Result (ng/L)	Recommended Health Value (ng/L)	Result above Recommended Health Value?
PFOS	ND		
PFOA	ND		
FOSA	2.8		
NEtFOSA	ND		
NEtFOSAA	ND		
NEtFOSE	ND		
Total of the six above:	2.8	20*	no
PFNA	ND	30	no
PFHxS	0.71	40	no
HFPO-DA (GenX)	ND	300	no
PFDA	ND	300	no
PFDoA	ND	50	no
DONA	ND	3,000	no
PFUnA	ND	3,000	no
PFBA	ND	10,000	no
PFTeA	ND	10,000	no
PFHxA	ND	150,000	no
PFODA	ND	400,000	no
PFBS	1.9	450,000	no

ng/L = nanograms of substance per liter of water – equivalent to parts per trillion

*We recommend a combined health value of 20 ng/l for PFOS, PFOA, FOSA, NEtFOSA, NEtFOSAA, and NEtFOSE.

ND stands for “not detected.” This means that the compound may not be present in your water, or if it is present, it is at a level lower than what the lab can measure.

LD stands for “low detection.” This means that the compound was present in your water sample but the concentration is lower than 1 ppt. The actual concentration can only be estimated.

Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH
 Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Client Sample ID: PW-10 (856)

Lab Sample ID: 500-235000-4

Date Collected: 06/05/23 08:20

Matrix: Water

Date Received: 06/08/23 09:50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.0		4.1	2.0	ng/L		06/22/23 19:56	06/26/23 01:55	1
Perfluoropentanoic acid (PFPeA)	<0.41		1.7	0.41	ng/L		06/22/23 19:56	06/26/23 01:55	1
Perfluorohexanoic acid (PFHxA)	<0.48		1.7	0.48	ng/L		06/22/23 19:56	06/26/23 01:55	1
Perfluoroheptanoic acid (PFHpA)	<0.21		1.7	0.21	ng/L		06/22/23 19:56	06/26/23 01:55	1
Perfluorooctanoic acid (PFOA)	<0.70		1.7	0.70	ng/L		06/22/23 19:56	06/26/23 01:55	1
Perfluorononanoic acid (PFNA)	<0.22		1.7	0.22	ng/L		06/22/23 19:56	06/26/23 01:55	1
Perfluorodecanoic acid (PFDA)	<0.26		1.7	0.26	ng/L		06/22/23 19:56	06/26/23 01:55	1
Perfluoroundecanoic acid (PFUnA)	<0.91		1.7	0.91	ng/L		06/22/23 19:56	06/26/23 01:55	1
Perfluorododecanoic acid (PFDoA)	<0.46		1.7	0.46	ng/L		06/22/23 19:56	06/26/23 01:55	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		06/22/23 19:56	06/26/23 01:55	1
Perfluorotetradecanoic acid (PFTeA)	<0.61		1.7	0.61	ng/L		06/22/23 19:56	06/26/23 01:55	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.74		1.7	0.74	ng/L		06/22/23 19:56	06/26/23 01:55	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.78	*1	1.7	0.78	ng/L		06/22/23 19:56	06/26/23 01:55	1
Perfluorobutanesulfonic acid (PFBS)	1.9		1.7	0.17	ng/L		06/22/23 19:56	06/26/23 01:55	1
Perfluoropentanesulfonic acid (PFPeS)	0.30	J	1.7	0.25	ng/L		06/22/23 19:56	06/26/23 01:55	1
Perfluorohexanesulfonic acid (PFHxS)	0.71	J	1.7	0.47	ng/L		06/22/23 19:56	06/26/23 01:55	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.16		1.7	0.16	ng/L		06/22/23 19:56	06/26/23 01:55	1
Perfluorooctanesulfonic acid (PFOS)	<0.45		1.7	0.45	ng/L		06/22/23 19:56	06/26/23 01:55	1
Perfluorononanesulfonic acid (PFNS)	<0.31		1.7	0.31	ng/L		06/22/23 19:56	06/26/23 01:55	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		06/22/23 19:56	06/26/23 01:55	1
Perfluorododecanesulfonic acid (PFDoS)	<0.80		1.7	0.80	ng/L		06/22/23 19:56	06/26/23 01:55	1
Perfluorooctanesulfonamide (FOSA)	2.8		1.7	0.81	ng/L		06/22/23 19:56	06/26/23 01:55	1
NEtFOSA	<0.72		1.7	0.72	ng/L		06/22/23 19:56	06/26/23 01:55	1
NMeFOSA	<0.36		1.7	0.36	ng/L		06/22/23 19:56	06/26/23 01:55	1
NMeFOSAA	<1.0		4.1	1.0	ng/L		06/22/23 19:56	06/26/23 01:55	1
NEtFOSAA	<1.1		4.1	1.1	ng/L		06/22/23 19:56	06/26/23 01:55	1
NMeFOSE	<1.2		3.3	1.2	ng/L		06/22/23 19:56	06/26/23 01:55	1
NEtFOSE	<0.70		1.7	0.70	ng/L		06/22/23 19:56	06/26/23 01:55	1
4:2 FTS	<0.20		1.7	0.20	ng/L		06/22/23 19:56	06/26/23 01:55	1
6:2 FTS	<2.1		4.1	2.1	ng/L		06/22/23 19:56	06/26/23 01:55	1
8:2 FTS	<0.38		1.7	0.38	ng/L		06/22/23 19:56	06/26/23 01:55	1
10:2 FTS	<0.56		1.7	0.56	ng/L		06/22/23 19:56	06/26/23 01:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.33		1.7	0.33	ng/L		06/22/23 19:56	06/26/23 01:55	1
HFPO-DA (GenX)	<1.2		3.3	1.2	ng/L		06/22/23 19:56	06/26/23 01:55	1
9Cl-PF3ONS	<0.20		1.7	0.20	ng/L		06/22/23 19:56	06/26/23 01:55	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		06/22/23 19:56	06/26/23 01:55	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	92		25 - 150				06/22/23 19:56	06/26/23 01:55	1
13C5 PFPeA	96		25 - 150				06/22/23 19:56	06/26/23 01:55	1
13C2 PFHxA	99		25 - 150				06/22/23 19:56	06/26/23 01:55	1
13C4 PFHpA	100		25 - 150				06/22/23 19:56	06/26/23 01:55	1
13C4 PFOA	95		25 - 150				06/22/23 19:56	06/26/23 01:55	1

Eurofins Chicago

Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH
 Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Client Sample ID: PW-10 (856)

Lab Sample ID: 500-235000-4

Date Collected: 06/05/23 08:20

Matrix: Water

Date Received: 06/08/23 09:50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFNA	96		25 - 150	06/22/23 19:56	06/26/23 01:55	1
13C2 PFDA	96		25 - 150	06/22/23 19:56	06/26/23 01:55	1
13C2 PFUnA	98		25 - 150	06/22/23 19:56	06/26/23 01:55	1
13C2 PFDoA	95		25 - 150	06/22/23 19:56	06/26/23 01:55	1
13C2 PFTeDA	93		25 - 150	06/22/23 19:56	06/26/23 01:55	1
13C2 PFHxDA	89		25 - 150	06/22/23 19:56	06/26/23 01:55	1
13C3 PFBS	87		25 - 150	06/22/23 19:56	06/26/23 01:55	1
18O2 PFHxS	98		25 - 150	06/22/23 19:56	06/26/23 01:55	1
13C4 PFOS	97		25 - 150	06/22/23 19:56	06/26/23 01:55	1
13C8 FOSA	121		10 - 150	06/22/23 19:56	06/26/23 01:55	1
d3-NMeFOSAA	120		25 - 150	06/22/23 19:56	06/26/23 01:55	1
d5-NEtFOSAA	114		25 - 150	06/22/23 19:56	06/26/23 01:55	1
d-N-MeFOSA-M	91		10 - 150	06/22/23 19:56	06/26/23 01:55	1
d-N-EtFOSA-M	83		10 - 150	06/22/23 19:56	06/26/23 01:55	1
d7-N-MeFOSE-M	92		10 - 150	06/22/23 19:56	06/26/23 01:55	1
d9-N-EtFOSE-M	87		10 - 150	06/22/23 19:56	06/26/23 01:55	1
M2-4:2 FTS	79		25 - 150	06/22/23 19:56	06/26/23 01:55	1
M2-6:2 FTS	74		25 - 150	06/22/23 19:56	06/26/23 01:55	1
M2-8:2 FTS	68		25 - 150	06/22/23 19:56	06/26/23 01:55	1
13C3 HFPO-DA	98		25 - 150	06/22/23 19:56	06/26/23 01:55	1
13C2 10:2 FTS	74		25 - 150	06/22/23 19:56	06/26/23 01:55	1

Definitions/Glossary

Client: Short Elliott Hendrickson, Inc. dba SEH
 Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



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August 22, 2023

RE: City of Hayward
PFAS Investigation
SEH No. HAYWA 171210 14.00

Melissa Wallace
9989N Ogren Road
Hayward, WI 54843

Dear Ms. Wallace:

Please find enclosed a letter from the Wisconsin Department of Health and Human Services (DHS) summarizing the analytical results for a groundwater sample collected from your private well on June 5, 2023.

Due to elevated levels of select per- and polyfluoroalkyl substance (PFAS) constituents measured in the June 5, 2023 sample from your private well, the Wisconsin Department of Natural Resources (WDNR) has requested a follow up sample be collected. A representative from SEH will contact you soon to arrange a site visit to collect the sample.

Should you have any questions relating to the letter or results, please do not hesitate to contact me at 608.498.4844, or John Sager (WDNR) and/or Nathan Kloczko (DHS) at the respective locations referenced on the DHS letter.

Sincerely,

A handwritten signature in black ink, appearing to read "Brian L. Kent".

Brian L. Kent, CHMM
Project Manager

BLK/blk/BKO
Enclosure

c: John Sager, WDNR
Nathan Kloczko, DHS
John McCue, Director of Public Works, Hayward, WI.

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DIVISION OF PUBLIC HEALTH

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Kirsten L. Johnson
Secretary

State of Wisconsin
Department of Health Services

Telephone: 608-266-1251
Fax: 608-267-2832
TTY: 711 or 800-947-3529

August 11, 2023

Melissa Wallace
9989 Ogren Road
Hayward, WI 54843

**RE: Laboratory results for PFAS for the water sample collected from your residence at:
9989 North Ogren Road, Hayward**

Dear Melissa Wallace,

Our agency, the Department of Health Services (DHS), recently received notice from the Department of Natural Resources (DNR) of per- and polyfluoroalkyl substances (PFAS) tested in your well located at 9989 North Ogren Road, Hayward. The table on the last page of this letter summarizes these results. The complete laboratory analytical results are also attached. **The levels of PFOA and PFOS were detected in your well water at levels above the Wisconsin recommended public health values.**

You should take action to reduce your exposure to PFAS:

- Use an alternative source of water for drinking and preparing foods that take up a lot of water (like oatmeal, rice, and soup). This includes:
 - Filtered water from a pitcher, sink, or whole-house filter system with a certified filter technology. Our [Reducing PFAS in Your Drinking Water Brochure](http://www.dhs.wisconsin.gov/publications/p03012.pdf) (<http://www.dhs.wisconsin.gov/publications/p03012.pdf>) has information on appropriate devices.
 - Bottled water that has been purified or filtered.
 - Other sources of water that have been tested for PFAS and do not have levels above the public health values.
- Find a long-term solution. Options include installing a certified treatment device or drilling a new well.
- You can continue using the water for bathing and other household chores.

PFAS are a group of man-made chemicals that have been used in many products since the 1950s. Studies among people have shown that exposure to high levels of some PFAS can affect our health. Potential health issues include elevated cholesterol levels, decreased antibody response to certain vaccines, and reduced fertility in women. Additional health information about the health effects of PFAS can be found at www.dhs.wisconsin.gov/chemical/pfas.htm.

You can contact DNR and DHS with questions about PFAS or the water sample results at the numbers provided below.

DNR John Sager
DHS Nathan Kloczko

715-919-7239
608-867-4448

John.Sager@Wisconsin.gov
Nathan.Kloczko@dhs.wisconsin.gov

Sincerely,



Nathan Kloczko, MPH
Site Evaluation Program Coordinator
Bureau of Environmental and Occupational Health

Substance	Result (ng/L)	Recommended Health value (ng/L)	Result above Recommended health value?
PFOS	5.4		
PFOA	19		
FOSA	ND		
NEtFOSA	ND		
NEtFOSAA	ND		
NEtFOSE	ND		
Total of the six above:	24.4	20*	YES
PFNA	ND	30	no
PFHxS	3.6	40	no
HFPO-DA (GenX)	ND	300	no
PFDA	ND	300	no
PFDoA	ND	50	no
DONA	ND	3,000	no
PFUnA	ND	3,000	no
PFBA	9.4	10,000	no
PFTeA	ND	10,000	no
PFHxA	4.2	150,000	no
PFODA	ND	400,000	no
PFBS	5.9	450,000	no

ng/L = nanograms of substance per liter of water – equivalent to parts per trillion (ppt)

*We recommend a combined health value of 20 ng/l for PFOS, PFOA, FOSA, NEtFOSA, NEtFOSAA, and NEtFOSE.

ND stands for “not detected.” This means that the compound may not be present in your water, or if it is present, it is at a level lower than what the lab can measure.

Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH
 Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Client Sample ID: PW-15 (858)

Lab Sample ID: 500-235000-5

Date Collected: 06/05/23 16:00

Matrix: Water

Date Received: 06/08/23 09:50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	9.4		4.3	2.1	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluoropentanoic acid (PFPeA)	4.4		1.7	0.42	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorohexanoic acid (PFHxA)	4.2		1.7	0.50	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluoroheptanoic acid (PFHpA)	3.9		1.7	0.21	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorooctanoic acid (PFOA)	19		1.7	0.73	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluoroundecanoic acid (PFUnA)	<0.94		1.7	0.94	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.76		1.7	0.76	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.81	*1	1.7	0.81	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorobutanesulfonic acid (PFBS)	3.6		1.7	0.17	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluoropentanesulfonic acid (PFPeS)	1.3	J	1.7	0.26	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorohexanesulfonic acid (PFHxS)	3.6		1.7	0.49	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	J	1.7	0.16	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorooctanesulfonic acid (PFOS)	5.4	I	1.7	0.46	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83		1.7	0.83	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorooctanesulfonamide (FOSA)	<0.84		1.7	0.84	ng/L		06/22/23 19:56	06/26/23 02:05	1
NEtFOSA	<0.75		1.7	0.75	ng/L		06/22/23 19:56	06/26/23 02:05	1
NMeFOSA	<0.37		1.7	0.37	ng/L		06/22/23 19:56	06/26/23 02:05	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		06/22/23 19:56	06/26/23 02:05	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		06/22/23 19:56	06/26/23 02:05	1
NMeFOSE	<1.2		3.4	1.2	ng/L		06/22/23 19:56	06/26/23 02:05	1
NEtFOSE	<0.73		1.7	0.73	ng/L		06/22/23 19:56	06/26/23 02:05	1
4:2 FTS	<0.21		1.7	0.21	ng/L		06/22/23 19:56	06/26/23 02:05	1
6:2 FTS	<2.1		4.3	2.1	ng/L		06/22/23 19:56	06/26/23 02:05	1
8:2 FTS	<0.39		1.7	0.39	ng/L		06/22/23 19:56	06/26/23 02:05	1
10:2 FTS	<0.58		1.7	0.58	ng/L		06/22/23 19:56	06/26/23 02:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		06/22/23 19:56	06/26/23 02:05	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		06/22/23 19:56	06/26/23 02:05	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		06/22/23 19:56	06/26/23 02:05	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		06/22/23 19:56	06/26/23 02:05	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	73		25 - 150				06/22/23 19:56	06/26/23 02:05	1
13C5 PFPeA	94		25 - 150				06/22/23 19:56	06/26/23 02:05	1
13C2 PFHxA	97		25 - 150				06/22/23 19:56	06/26/23 02:05	1
13C4 PFHpA	97		25 - 150				06/22/23 19:56	06/26/23 02:05	1
13C4 PFOA	95		25 - 150				06/22/23 19:56	06/26/23 02:05	1

Eurofins Chicago

Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH
 Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Client Sample ID: PW-15 (858)

Lab Sample ID: 500-235000-5

Date Collected: 06/05/23 16:00

Matrix: Water

Date Received: 06/08/23 09:50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFNA	97		25 - 150	06/22/23 19:56	06/26/23 02:05	1
13C2 PFDA	97		25 - 150	06/22/23 19:56	06/26/23 02:05	1
13C2 PFUnA	96		25 - 150	06/22/23 19:56	06/26/23 02:05	1
13C2 PFDoA	89		25 - 150	06/22/23 19:56	06/26/23 02:05	1
13C2 PFTeDA	92		25 - 150	06/22/23 19:56	06/26/23 02:05	1
13C2 PFHxDA	85		25 - 150	06/22/23 19:56	06/26/23 02:05	1
13C3 PFBS	85		25 - 150	06/22/23 19:56	06/26/23 02:05	1
18O2 PFHxS	99		25 - 150	06/22/23 19:56	06/26/23 02:05	1
13C4 PFOS	96		25 - 150	06/22/23 19:56	06/26/23 02:05	1
13C8 FOSA	115		10 - 150	06/22/23 19:56	06/26/23 02:05	1
d3-NMeFOSAA	111		25 - 150	06/22/23 19:56	06/26/23 02:05	1
d5-NEtFOSAA	111		25 - 150	06/22/23 19:56	06/26/23 02:05	1
d-N-MeFOSA-M	81		10 - 150	06/22/23 19:56	06/26/23 02:05	1
d-N-EtFOSA-M	81		10 - 150	06/22/23 19:56	06/26/23 02:05	1
d7-N-MeFOSE-M	83		10 - 150	06/22/23 19:56	06/26/23 02:05	1
d9-N-EtFOSE-M	82		10 - 150	06/22/23 19:56	06/26/23 02:05	1
M2-4:2 FTS	98		25 - 150	06/22/23 19:56	06/26/23 02:05	1
M2-6:2 FTS	79		25 - 150	06/22/23 19:56	06/26/23 02:05	1
M2-8:2 FTS	70		25 - 150	06/22/23 19:56	06/26/23 02:05	1
13C3 HFPO-DA	91		25 - 150	06/22/23 19:56	06/26/23 02:05	1
13C2 10:2 FTS	79		25 - 150	06/22/23 19:56	06/26/23 02:05	1

Definitions/Glossary

Client: Short Elliott Hendrickson, Inc. dba SEH
Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



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for All of Us®

August 22, 2023

RE: City of Hayward
PFAS Investigation
SEH No. HAYWA 171210 14.00

Steven and Ruth Erickson-Roberts
508 Prairie Way S
Bayport MN 55003-1606

Dear Mr. and Mrs. Erickson-Roberts:

Please find enclosed a letter from the Wisconsin Department of Health and Human Services (DHS) summarizing the per- and polyfluoroalkyl substances (PFAS) analytical results for a groundwater sample collected from your private well on June 5, 2023.

Should you have any questions relating to the letter or results, please do not hesitate to contact me at 608.498.4844, or John Sager (Wisconsin Department of Natural Resources (WDNR)) and/or Nathan Kloczko (DHS) at the respective locations referenced on the DHS letter.

Sincerely,

A handwritten signature in black ink, appearing to read "B. Kent", is written over a light blue horizontal line.

Brian L. Kent, CHMM
Project Manager

BLK/blk/BKO
Enclosure

c: John Sager, WDNR
Nathan Kloczko, DHS
John McCue, Director of Public Works, Hayward, WI.

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Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 329 Jay Street, Suite 301, La Crosse, WI 54601-4034

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Tony Evers
Governor



DIVISION OF PUBLIC HEALTH

1 WEST WILSON STREET
PO BOX 2659
MADISON WI 53701-2659

Kirsten L. Johnson
Secretary

State of Wisconsin
Department of Health Services

Telephone: 608-266-1251
Fax: 608-267-2832
TTY: 711 or 800-947-3529

August 14, 2023

Steven and Ruth Erickson-Roberts
508 Prairie Way South
Bayport, MN 55003-1606

**RE: Laboratory results for PFAS for water sample collected from
9997 North Ogren Road, Hayward**

Dear Steven and Ruth Erickson-Roberts,

Our agency, the Department of Health Services (DHS), recently received notice from the Department of Natural Resources (DNR) of well test results from your drinking water well located at 9997 North Ogren Road, Hayward. The table on the last page of this letter summarizes these results. The complete laboratory analytical results are also attached. In this letter, we will discuss PFAS levels tested for in your well. **The results show that one or more PFAS were found in your well, but not above Wisconsin recommended public health values. You can continue to use the water as you normally would, but you can still take action to reduce PFAS exposure.**

Actions you can take to reduce your exposure to PFAS include the following:

- Use an alternative source of water for drinking and preparing foods that take up a lot of water (like oatmeal, rice, or soup). This includes:
 - Filtered water from a pitcher, sink, or whole-house filter system with a certified filter technology. Our [Reducing PFAS in Your Drinking Water Brochure](http://www.dhs.wisconsin.gov/publications/p03012.pdf) (<http://www.dhs.wisconsin.gov/publications/p03012.pdf>) has information on appropriate devices.
 - Bottled water that has been purified or filtered.
 - Other sources of water that have been tested for PFAS and do not have levels above the public health values.
- Follow fish consumption advisories, vacuum frequently, and avoid consumer products that contain PFAS.

PFAS are a group of man-made chemicals that have been used in many products since the 1950s. Studies among people have shown that exposure to high levels of some PFAS can affect our health. Potential health issues include elevated cholesterol levels, decreased antibody response to certain vaccines, and reduced fertility in women. Additional health information about the health effects of PFAS can be found at www.dhs.wisconsin.gov/chemical/pfas.htm.

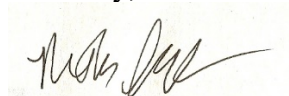
You can contact DNR and DHS with questions about PFAS or the water sample results at the numbers provided below.

DNR John Sager
 DHS Nathan Kloczko

715-919-7239
 608-867-4448

John.Sager@Wisconsin.gov
Nathan.Kloczko@dhs.wisconsin.gov

Sincerely,



Nathan Kloczko, MPH
 Site Evaluation Program Coordinator
 Bureau of Environmental and Occupational Health

Substance	Result (ng/L)	Recommended Health Value (ng/L)	Result above Recommended Health Value?
PFOS	ND		
PFOA	ND		
FOSA	1.4		
NEtFOSA	ND		
NEtFOSAA	ND		
NEtFOSE	ND		
Total of the six above:	1.4	20*	no
PFNA	ND	30	no
PFHxS	1.0	40	no
HFPO-DA (GenX)	ND	300	no
PFDA	ND	300	no
PFDoA	ND	50	no
DONA	ND	3,000	no
PFUnA	ND	3,000	no
PFBA	ND	10,000	no
PFTeA	ND	10,000	no
PFHxA	ND	150,000	no
PFODA	ND	400,000	no
PFBS	0.38	450,000	no

ng/L = nanograms of substance per liter of water – equivalent to parts per trillion

*We recommend a combined health value of 20 ng/l for PFOS, PFOA, FOSA, NEtFOSA, NEtFOSAA, and NEtFOSE.

ND stands for “not detected.” This means that the compound may not be present in your water, or if it is present, it is at a level lower than what the lab can measure.

LD stands for “low detection.” This means that the compound was present in your water sample but the concentration is lower than 1 ppt. The actual concentration can only be estimated.

Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH
 Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Client Sample ID: PW-17 (860)

Lab Sample ID: 500-235000-6

Date Collected: 06/05/23 09:20

Matrix: Water

Date Received: 06/08/23 09:50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		4.4	2.1	ng/L		06/22/23 19:56	06/26/23 02:15	1
Perfluoropentanoic acid (PFPeA)	<0.43		1.8	0.43	ng/L		06/22/23 19:56	06/26/23 02:15	1
Perfluorohexanoic acid (PFHxA)	<0.51		1.8	0.51	ng/L		06/22/23 19:56	06/26/23 02:15	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.8	0.22	ng/L		06/22/23 19:56	06/26/23 02:15	1
Perfluorooctanoic acid (PFOA)	<0.75		1.8	0.75	ng/L		06/22/23 19:56	06/26/23 02:15	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		06/22/23 19:56	06/26/23 02:15	1
Perfluorodecanoic acid (PFDA)	<0.27		1.8	0.27	ng/L		06/22/23 19:56	06/26/23 02:15	1
Perfluoroundecanoic acid (PFUnA)	<0.97		1.8	0.97	ng/L		06/22/23 19:56	06/26/23 02:15	1
Perfluorododecanoic acid (PFDoA)	<0.48		1.8	0.48	ng/L		06/22/23 19:56	06/26/23 02:15	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.8	1.1	ng/L		06/22/23 19:56	06/26/23 02:15	1
Perfluorotetradecanoic acid (PFTeA)	<0.64		1.8	0.64	ng/L		06/22/23 19:56	06/26/23 02:15	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.78		1.8	0.78	ng/L		06/22/23 19:56	06/26/23 02:15	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.83	*1	1.8	0.83	ng/L		06/22/23 19:56	06/26/23 02:15	1
Perfluorobutanesulfonic acid (PFBS)	0.38	J	1.8	0.18	ng/L		06/22/23 19:56	06/26/23 02:15	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.8	0.26	ng/L		06/22/23 19:56	06/26/23 02:15	1
Perfluorohexanesulfonic acid (PFHxS)	1.0	J	1.8	0.50	ng/L		06/22/23 19:56	06/26/23 02:15	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.8	0.17	ng/L		06/22/23 19:56	06/26/23 02:15	1
Perfluorooctanesulfonic acid (PFOS)	<0.48		1.8	0.48	ng/L		06/22/23 19:56	06/26/23 02:15	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		06/22/23 19:56	06/26/23 02:15	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		06/22/23 19:56	06/26/23 02:15	1
Perfluorododecanesulfonic acid (PFDoS)	<0.86		1.8	0.86	ng/L		06/22/23 19:56	06/26/23 02:15	1
Perfluorooctanesulfonamide (FOSA)	1.4	J	1.8	0.86	ng/L		06/22/23 19:56	06/26/23 02:15	1
NEtFOSA	<0.77		1.8	0.77	ng/L		06/22/23 19:56	06/26/23 02:15	1
NMeFOSA	<0.38		1.8	0.38	ng/L		06/22/23 19:56	06/26/23 02:15	1
NMeFOSAA	<1.1		4.4	1.1	ng/L		06/22/23 19:56	06/26/23 02:15	1
NEtFOSAA	<1.1		4.4	1.1	ng/L		06/22/23 19:56	06/26/23 02:15	1
NMeFOSE	<1.2		3.5	1.2	ng/L		06/22/23 19:56	06/26/23 02:15	1
NEtFOSE	<0.75		1.8	0.75	ng/L		06/22/23 19:56	06/26/23 02:15	1
4:2 FTS	<0.21		1.8	0.21	ng/L		06/22/23 19:56	06/26/23 02:15	1
6:2 FTS	<2.2		4.4	2.2	ng/L		06/22/23 19:56	06/26/23 02:15	1
8:2 FTS	<0.41		1.8	0.41	ng/L		06/22/23 19:56	06/26/23 02:15	1
10:2 FTS	<0.59		1.8	0.59	ng/L		06/22/23 19:56	06/26/23 02:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.8	0.35	ng/L		06/22/23 19:56	06/26/23 02:15	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		06/22/23 19:56	06/26/23 02:15	1
9Cl-PF3ONS	<0.21		1.8	0.21	ng/L		06/22/23 19:56	06/26/23 02:15	1
11Cl-PF3OUdS	<0.28		1.8	0.28	ng/L		06/22/23 19:56	06/26/23 02:15	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	96		25 - 150				06/22/23 19:56	06/26/23 02:15	1
13C5 PFPeA	101		25 - 150				06/22/23 19:56	06/26/23 02:15	1
13C2 PFHxA	98		25 - 150				06/22/23 19:56	06/26/23 02:15	1
13C4 PFHpA	96		25 - 150				06/22/23 19:56	06/26/23 02:15	1
13C4 PFOA	96		25 - 150				06/22/23 19:56	06/26/23 02:15	1

Eurofins Chicago

Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH
 Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Client Sample ID: PW-17 (860)

Lab Sample ID: 500-235000-6

Date Collected: 06/05/23 09:20

Matrix: Water

Date Received: 06/08/23 09:50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFNA	99		25 - 150	06/22/23 19:56	06/26/23 02:15	1
13C2 PFDA	103		25 - 150	06/22/23 19:56	06/26/23 02:15	1
13C2 PFUnA	101		25 - 150	06/22/23 19:56	06/26/23 02:15	1
13C2 PFDoA	99		25 - 150	06/22/23 19:56	06/26/23 02:15	1
13C2 PFTeDA	100		25 - 150	06/22/23 19:56	06/26/23 02:15	1
13C2 PFHxDA	98		25 - 150	06/22/23 19:56	06/26/23 02:15	1
13C3 PFBS	90		25 - 150	06/22/23 19:56	06/26/23 02:15	1
18O2 PFHxS	99		25 - 150	06/22/23 19:56	06/26/23 02:15	1
13C4 PFOS	99		25 - 150	06/22/23 19:56	06/26/23 02:15	1
13C8 FOSA	124		10 - 150	06/22/23 19:56	06/26/23 02:15	1
d3-NMeFOSAA	128		25 - 150	06/22/23 19:56	06/26/23 02:15	1
d5-NEtFOSAA	121		25 - 150	06/22/23 19:56	06/26/23 02:15	1
d-N-MeFOSA-M	92		10 - 150	06/22/23 19:56	06/26/23 02:15	1
d-N-EtFOSA-M	81		10 - 150	06/22/23 19:56	06/26/23 02:15	1
d7-N-MeFOSE-M	87		10 - 150	06/22/23 19:56	06/26/23 02:15	1
d9-N-EtFOSE-M	81		10 - 150	06/22/23 19:56	06/26/23 02:15	1
M2-4:2 FTS	80		25 - 150	06/22/23 19:56	06/26/23 02:15	1
M2-6:2 FTS	66		25 - 150	06/22/23 19:56	06/26/23 02:15	1
M2-8:2 FTS	71		25 - 150	06/22/23 19:56	06/26/23 02:15	1
13C3 HFPO-DA	98		25 - 150	06/22/23 19:56	06/26/23 02:15	1
13C2 10:2 FTS	83		25 - 150	06/22/23 19:56	06/26/23 02:15	1

Definitions/Glossary

Client: Short Elliott Hendrickson, Inc. dba SEH
Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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CFU	Colony Forming Unit
CNF	Contains No Free Liquid
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EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
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MDL	Method Detection Limit
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MQL	Method Quantitation Limit
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NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



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for All of Us®

August 22, 2023

RE: City of Hayward
PFAS Investigation
SEH No. HAYWA 171210 14.00

Dodson and Kristin Thompson
9977 N Ogren Road
Hayward WI 54843

Dear Mr. and Mrs. Thompson:

Please find enclosed a letter from the Wisconsin Department of Health and Human Services (DHS) summarizing the per- and polyfluoroalkyl substances (PFAS) analytical results for a groundwater sample collected from your private well on June 5, 2023.

Should you have any questions relating to the letter or results, please do not hesitate to contact me at 608.498.4844, or John Sager (Wisconsin Department of Natural Resources (WDNR)) and/or Nathan Kloczko (DHS) at the respective locations referenced on the DHS letter.

Sincerely,

A handwritten signature in black ink, appearing to read "B. Kent", is written over a light blue horizontal line.

Brian L. Kent, CHMM
Project Manager

BLK/blk/BKO
Enclosure

c: John Sager, WDNR
Nathan Kloczko, DHS
John McCue, Director of Public Works, Hayward, WI.

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Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 329 Jay Street, Suite 301, La Crosse, WI 54601-4034

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Tony Evers
Governor



DIVISION OF PUBLIC HEALTH

1 WEST WILSON STREET
PO BOX 2659
MADISON WI 53701-2659

Kirsten L. Johnson
Secretary

State of Wisconsin
Department of Health Services

Telephone: 608-266-1251
Fax: 608-267-2832
TTY: 711 or 800-947-3529

August 14, 2023

Dodson and Kristin Thompson
9977 North Ogren Road
Hayward, WI 54843

**RE: Laboratory results for PFAS for water sample collected from
9977 North Ogren Road, Hayward**

Dear Steven and Ruth Erickson-Roberts,

Our agency, the Department of Health Services (DHS), recently received notice from the Department of Natural Resources (DNR) of well test results from your drinking water well located at 9977 North Ogren Road, Hayward. The table on the last page of this letter summarizes these results. The complete laboratory analytical results are also attached. In this letter, we will discuss PFAS levels tested for in your well. **The results show that one or more PFAS were found in your well, but not above Wisconsin recommended public health values. You can continue to use the water as you normally would, but you can still take action to reduce PFAS exposure.**

Actions you can take to reduce your exposure to PFAS include the following:

- Use an alternative source of water for drinking and preparing foods that take up a lot of water (like oatmeal, rice, or soup). This includes:
 - Filtered water from a pitcher, sink, or whole-house filter system with a certified filter technology. Our [Reducing PFAS in Your Drinking Water Brochure](http://www.dhs.wisconsin.gov/publications/p03012.pdf) (<http://www.dhs.wisconsin.gov/publications/p03012.pdf>) has information on appropriate devices.
 - Bottled water that has been purified or filtered.
 - Other sources of water that have been tested for PFAS and do not have levels above the public health values.
- Follow fish consumption advisories, vacuum frequently, and avoid consumer products that contain PFAS.

PFAS are a group of man-made chemicals that have been used in many products since the 1950s. Studies among people have shown that exposure to high levels of some PFAS can affect our health. Potential health issues include elevated cholesterol levels, decreased antibody response to certain vaccines, and reduced fertility in women. Additional health information about the health effects of PFAS can be found at www.dhs.wisconsin.gov/chemical/pfas.htm.

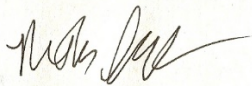
You can contact DNR and DHS with questions about PFAS or the water sample results at the numbers provided below.

DNR John Sager
 DHS Nathan Kloczko

715-919-7239
 608-867-4448

John.Sager@Wisconsin.gov
Nathan.Kloczko@dhs.wisconsin.gov

Sincerely,



Nathan Kloczko, MPH
 Site Evaluation Program Coordinator
 Bureau of Environmental and Occupational Health

Substance	Result (ng/L)	Recommended Health Value (ng/L)	Result above Recommended Health Value?
PFOS	0.85		
PFOA	4.4		
FOSA	2.2		
NEtFOSA	ND		
NEtFOSAA	ND		
NEtFOSE	ND		
Total of the six above:	7.45	20*	no
PFNA	ND	30	no
PFHxS	0.85	40	no
HFPO-DA (GenX)	ND	300	no
PFDA	ND	300	no
PFDoA	ND	50	no
DONA	ND	3,000	no
PFUnA	ND	3,000	no
PFBA	3.5	10,000	no
PFTeA	ND	10,000	no
PFHxA	ND	150,000	no
PFODA	ND	400,000	no
PFBS	2.3	450,000	no

ng/L = nanograms of substance per liter of water – equivalent to parts per trillion

*We recommend a combined health value of 20 ng/l for PFOS, PFOA, FOSA, NEtFOSA, NEtFOSAA, and NEtFOSE.

ND stands for “not detected.” This means that the compound may not be present in your water, or if it is present, it is at a level lower than what the lab can measure.

LD stands for “low detection.” This means that the compound was present in your water sample but the concentration is lower than 1 ppt. The actual concentration can only be estimated.

Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH
 Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Client Sample ID: PW-18 (861)

Lab Sample ID: 500-235000-7

Date Collected: 06/05/23 09:45

Matrix: Water

Date Received: 06/08/23 09:50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.5	J	4.4	2.1	ng/L		06/22/23 19:56	06/26/23 02:25	1
Perfluoropentanoic acid (PFPeA)	<0.43		1.7	0.43	ng/L		06/22/23 19:56	06/26/23 02:25	1
Perfluorohexanoic acid (PFHxA)	<0.51		1.7	0.51	ng/L		06/22/23 19:56	06/26/23 02:25	1
Perfluoroheptanoic acid (PFHpA)	0.76	J	1.7	0.22	ng/L		06/22/23 19:56	06/26/23 02:25	1
Perfluorooctanoic acid (PFOA)	4.4		1.7	0.74	ng/L		06/22/23 19:56	06/26/23 02:25	1
Perfluorononanoic acid (PFNA)	<0.24		1.7	0.24	ng/L		06/22/23 19:56	06/26/23 02:25	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		06/22/23 19:56	06/26/23 02:25	1
Perfluoroundecanoic acid (PFUnA)	<0.96		1.7	0.96	ng/L		06/22/23 19:56	06/26/23 02:25	1
Perfluorododecanoic acid (PFDoA)	<0.48		1.7	0.48	ng/L		06/22/23 19:56	06/26/23 02:25	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		06/22/23 19:56	06/26/23 02:25	1
Perfluorotetradecanoic acid (PFTeA)	<0.64		1.7	0.64	ng/L		06/22/23 19:56	06/26/23 02:25	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.78		1.7	0.78	ng/L		06/22/23 19:56	06/26/23 02:25	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.82	*1	1.7	0.82	ng/L		06/22/23 19:56	06/26/23 02:25	1
Perfluorobutanesulfonic acid (PFBS)	2.3		1.7	0.17	ng/L		06/22/23 19:56	06/26/23 02:25	1
Perfluoropentanesulfonic acid (PFPeS)	0.34	J	1.7	0.26	ng/L		06/22/23 19:56	06/26/23 02:25	1
Perfluorohexanesulfonic acid (PFHxS)	0.85	J	1.7	0.50	ng/L		06/22/23 19:56	06/26/23 02:25	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.17		1.7	0.17	ng/L		06/22/23 19:56	06/26/23 02:25	1
Perfluorooctanesulfonic acid (PFOS)	0.85	J	1.7	0.47	ng/L		06/22/23 19:56	06/26/23 02:25	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		06/22/23 19:56	06/26/23 02:25	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		06/22/23 19:56	06/26/23 02:25	1
Perfluorododecanesulfonic acid (PFDoS)	<0.84		1.7	0.84	ng/L		06/22/23 19:56	06/26/23 02:25	1
Perfluorooctanesulfonamide (FOSA)	2.2		1.7	0.85	ng/L		06/22/23 19:56	06/26/23 02:25	1
NEtFOSA	<0.76		1.7	0.76	ng/L		06/22/23 19:56	06/26/23 02:25	1
NMeFOSA	<0.37		1.7	0.37	ng/L		06/22/23 19:56	06/26/23 02:25	1
NMeFOSAA	<1.0		4.4	1.0	ng/L		06/22/23 19:56	06/26/23 02:25	1
NEtFOSAA	<1.1		4.4	1.1	ng/L		06/22/23 19:56	06/26/23 02:25	1
NMeFOSE	<1.2		3.5	1.2	ng/L		06/22/23 19:56	06/26/23 02:25	1
NEtFOSE	<0.74		1.7	0.74	ng/L		06/22/23 19:56	06/26/23 02:25	1
4:2 FTS	<0.21		1.7	0.21	ng/L		06/22/23 19:56	06/26/23 02:25	1
6:2 FTS	<2.2		4.4	2.2	ng/L		06/22/23 19:56	06/26/23 02:25	1
8:2 FTS	<0.40		1.7	0.40	ng/L		06/22/23 19:56	06/26/23 02:25	1
10:2 FTS	<0.58		1.7	0.58	ng/L		06/22/23 19:56	06/26/23 02:25	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.7	0.35	ng/L		06/22/23 19:56	06/26/23 02:25	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		06/22/23 19:56	06/26/23 02:25	1
9CI-PF3ONS	<0.21		1.7	0.21	ng/L		06/22/23 19:56	06/26/23 02:25	1
11CI-PF3OUdS	<0.28		1.7	0.28	ng/L		06/22/23 19:56	06/26/23 02:25	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	88		25 - 150				06/22/23 19:56	06/26/23 02:25	1
13C5 PFPeA	98		25 - 150				06/22/23 19:56	06/26/23 02:25	1
13C2 PFHxA	99		25 - 150				06/22/23 19:56	06/26/23 02:25	1
13C4 PFHpA	97		25 - 150				06/22/23 19:56	06/26/23 02:25	1
13C4 PFOA	95		25 - 150				06/22/23 19:56	06/26/23 02:25	1

Eurofins Chicago

Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH
 Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Client Sample ID: PW-18 (861)

Lab Sample ID: 500-235000-7

Date Collected: 06/05/23 09:45

Matrix: Water

Date Received: 06/08/23 09:50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFNA	96		25 - 150	06/22/23 19:56	06/26/23 02:25	1
13C2 PFDA	100		25 - 150	06/22/23 19:56	06/26/23 02:25	1
13C2 PFUnA	98		25 - 150	06/22/23 19:56	06/26/23 02:25	1
13C2 PFDoA	91		25 - 150	06/22/23 19:56	06/26/23 02:25	1
13C2 PFTeDA	91		25 - 150	06/22/23 19:56	06/26/23 02:25	1
13C2 PFHxDA	83		25 - 150	06/22/23 19:56	06/26/23 02:25	1
13C3 PFBS	87		25 - 150	06/22/23 19:56	06/26/23 02:25	1
18O2 PFHxS	95		25 - 150	06/22/23 19:56	06/26/23 02:25	1
13C4 PFOS	97		25 - 150	06/22/23 19:56	06/26/23 02:25	1
13C8 FOSA	116		10 - 150	06/22/23 19:56	06/26/23 02:25	1
d3-NMeFOSAA	119		25 - 150	06/22/23 19:56	06/26/23 02:25	1
d5-NEtFOSAA	112		25 - 150	06/22/23 19:56	06/26/23 02:25	1
d-N-MeFOSA-M	86		10 - 150	06/22/23 19:56	06/26/23 02:25	1
d-N-EtFOSA-M	78		10 - 150	06/22/23 19:56	06/26/23 02:25	1
d7-N-MeFOSE-M	85		10 - 150	06/22/23 19:56	06/26/23 02:25	1
d9-N-EtFOSE-M	80		10 - 150	06/22/23 19:56	06/26/23 02:25	1
M2-4:2 FTS	77		25 - 150	06/22/23 19:56	06/26/23 02:25	1
M2-6:2 FTS	70		25 - 150	06/22/23 19:56	06/26/23 02:25	1
M2-8:2 FTS	72		25 - 150	06/22/23 19:56	06/26/23 02:25	1
13C3 HFPO-DA	97		25 - 150	06/22/23 19:56	06/26/23 02:25	1
13C2 10:2 FTS	77		25 - 150	06/22/23 19:56	06/26/23 02:25	1

Definitions/Glossary

Client: Short Elliott Hendrickson, Inc. dba SEH
Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



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August 22, 2023

RE: City of Hayward
PFAS Investigation
SEH No. HAYWA 171210 14.00

Ronald Hobart
16378 W Stress Road
Hayward, WI 5484

Dear Mr. Hobart:

Please find enclosed a letter from the Wisconsin Department of Health and Human Services (DHS) summarizing the per- and polyfluoroalkyl substances (PFAS) analytical results for a groundwater sample collected from your private well on June 19, 2023.

Should you have any questions relating to the letter or results, please do not hesitate to contact me at 608.498.4844, or John Sager (Wisconsin Department of Natural Resources (WDNR)) and/or Nathan Kloczko (DHS) at the respective locations referenced on the DHS letter.

Sincerely,

A handwritten signature in black ink, appearing to read "B. Kent", is written over a light blue horizontal line.

Brian L. Kent, CHMM
Project Manager

BLK/blk/BKO
Enclosure

c: John Sager, WDNR
Nathan Kloczko, DHS
John McCue, Director of Public Works, Hayward, WI.

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August 14, 2023

Ron Hobart
16378 West Stresss Road
Hayward, WI 54843

SUBJECT: Notification of Drinking Water Sample Results at 16378 West Stress Road, Hayward
BRRTS Activity Name: Hayward City Landfill #1751
US Highway 63 and Stress Road, Hayward, WI
BRRTS #: 02-58-000380

Dear Ron Hobart:

Results were recently received for the sampling conducted of your well located at 16378 West Stress Road, Hayward. Sampling was conducted by the City of Hayward for the reason of determining the concentration of PFAS compounds in your drinking water.

PFAS are a group of man-made chemicals that have been used in many products since the 1950s. Studies among people have shown that exposure to high levels of some PFAS can affect our health. Potential health issues include elevated cholesterol levels, decreased antibody response to certain vaccines, and reduced fertility in women. Additional health information about the health effects of PFAS can be found at the Wisconsin Department of Health Services Website: www.dhs.wisconsin.gov/chemical/pfas.htm.

At the time and location of sampling, reported concentrations of PFAS analyzed were not detected above the laboratory detection limit.

If you have questions or concerns regarding this letter, please contact me at (715) 919-7239 or John.sager@Wisconsin.gov.

Sincerely,



John Sager
Hydrogeologist
Remediation and Redevelopment Program

Attachment: Laboratory analytical results

Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH
 Project/Site: Hayward LF

Job ID: 500-235500-1

Client Sample ID: PW-19 (862)

Lab Sample ID: 500-235500-1

Date Collected: 06/19/23 09:00

Matrix: Water

Date Received: 06/20/23 09:50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.6	2.2	ng/L		07/03/23 04:40	07/12/23 20:52	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.9	0.45	ng/L		07/03/23 04:40	07/12/23 20:52	1
Perfluorohexanoic acid (PFHxA)	<0.54		1.9	0.54	ng/L		07/03/23 04:40	07/12/23 20:52	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.9	0.23	ng/L		07/03/23 04:40	07/12/23 20:52	1
Perfluorooctanoic acid (PFOA)	<0.79		1.9	0.79	ng/L		07/03/23 04:40	07/12/23 20:52	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		07/03/23 04:40	07/12/23 20:52	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		07/03/23 04:40	07/12/23 20:52	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		07/03/23 04:40	07/12/23 20:52	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		07/03/23 04:40	07/12/23 20:52	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		07/03/23 04:40	07/12/23 20:52	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		07/03/23 04:40	07/12/23 20:52	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.82		1.9	0.82	ng/L		07/03/23 04:40	07/12/23 20:52	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.87		1.9	0.87	ng/L		07/03/23 04:40	07/12/23 20:52	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		07/03/23 04:40	07/12/23 20:52	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		07/03/23 04:40	07/12/23 20:52	1
Perfluorohexanesulfonic acid (PFHxS)	<0.53		1.9	0.53	ng/L		07/03/23 04:40	07/12/23 20:52	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		07/03/23 04:40	07/12/23 20:52	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		1.9	0.50	ng/L		07/03/23 04:40	07/12/23 20:52	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		07/03/23 04:40	07/12/23 20:52	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		07/03/23 04:40	07/12/23 20:52	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		07/03/23 04:40	07/12/23 20:52	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		07/03/23 04:40	07/12/23 20:52	1
NEtFOSA	<0.80		1.9	0.80	ng/L		07/03/23 04:40	07/12/23 20:52	1
NMeFOSA	<0.40		1.9	0.40	ng/L		07/03/23 04:40	07/12/23 20:52	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		07/03/23 04:40	07/12/23 20:52	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		07/03/23 04:40	07/12/23 20:52	1
NMeFOSE	<1.3		3.7	1.3	ng/L		07/03/23 04:40	07/12/23 20:52	1
NEtFOSE	<0.79		1.9	0.79	ng/L		07/03/23 04:40	07/12/23 20:52	1
4:2 FTS	<0.22		1.9	0.22	ng/L		07/03/23 04:40	07/12/23 20:52	1
6:2 FTS	<2.3		4.6	2.3	ng/L		07/03/23 04:40	07/12/23 20:52	1
8:2 FTS	<0.43		1.9	0.43	ng/L		07/03/23 04:40	07/12/23 20:52	1
10:2 FTS	<0.62		1.9	0.62	ng/L		07/03/23 04:40	07/12/23 20:52	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.9	0.37	ng/L		07/03/23 04:40	07/12/23 20:52	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		07/03/23 04:40	07/12/23 20:52	1
9CI-PF3ONS	<0.22		1.9	0.22	ng/L		07/03/23 04:40	07/12/23 20:52	1
11CI-PF3OUdS	<0.30		1.9	0.30	ng/L		07/03/23 04:40	07/12/23 20:52	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	91		25 - 150				07/03/23 04:40	07/12/23 20:52	1
13C5 PFPeA	98		25 - 150				07/03/23 04:40	07/12/23 20:52	1
13C2 PFHxA	99		25 - 150				07/03/23 04:40	07/12/23 20:52	1
13C4 PFHpA	97		25 - 150				07/03/23 04:40	07/12/23 20:52	1
13C4 PFOA	103		25 - 150				07/03/23 04:40	07/12/23 20:52	1
13C5 PFNA	100		25 - 150				07/03/23 04:40	07/12/23 20:52	1
13C2 PFDA	107		25 - 150				07/03/23 04:40	07/12/23 20:52	1
13C2 PFUnA	97		25 - 150				07/03/23 04:40	07/12/23 20:52	1

Eurofins Chicago

Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH
 Project/Site: Hayward LF

Job ID: 500-235500-1

Client Sample ID: PW-19 (862)

Lab Sample ID: 500-235500-1

Date Collected: 06/19/23 09:00

Matrix: Water

Date Received: 06/20/23 09:50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFDoA	95		25 - 150	07/03/23 04:40	07/12/23 20:52	1
13C2 PFTeDA	86		25 - 150	07/03/23 04:40	07/12/23 20:52	1
13C2 PFHxDA	56		25 - 150	07/03/23 04:40	07/12/23 20:52	1
13C3 PFBS	88		25 - 150	07/03/23 04:40	07/12/23 20:52	1
18O2 PFHxS	93		25 - 150	07/03/23 04:40	07/12/23 20:52	1
13C4 PFOS	96		25 - 150	07/03/23 04:40	07/12/23 20:52	1
13C8 FOSA	102		10 - 150	07/03/23 04:40	07/12/23 20:52	1
d3-NMeFOSAA	100		25 - 150	07/03/23 04:40	07/12/23 20:52	1
d5-NEtFOSAA	111		25 - 150	07/03/23 04:40	07/12/23 20:52	1
d-N-MeFOSA-M	91		10 - 150	07/03/23 04:40	07/12/23 20:52	1
d-N-EtFOSA-M	87		10 - 150	07/03/23 04:40	07/12/23 20:52	1
d7-N-MeFOSE-M	90		10 - 150	07/03/23 04:40	07/12/23 20:52	1
d9-N-EtFOSE-M	88		10 - 150	07/03/23 04:40	07/12/23 20:52	1
M2-4:2 FTS	100		25 - 150	07/03/23 04:40	07/12/23 20:52	1
M2-6:2 FTS	99		25 - 150	07/03/23 04:40	07/12/23 20:52	1
M2-8:2 FTS	107		25 - 150	07/03/23 04:40	07/12/23 20:52	1
13C3 HFPO-DA	98		25 - 150	07/03/23 04:40	07/12/23 20:52	1
13C2 10:2 FTS	102		25 - 150	07/03/23 04:40	07/12/23 20:52	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field Conductivity	225				umhos/cm			06/19/23 09:00	1
Field pH	7.85				SU			06/19/23 09:00	1
Field Temperature	14.5				Degrees C			06/19/23 09:00	1

Definitions/Glossary

Client: Short Elliott Hendrickson, Inc. dba SEH
Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

From: [Brian Kent](#)
To: [Sager, John E - DNR](#); [John McCue](#); melissa.wallace51@gmail.com
Cc: [Kloczko, Nathan F - DHS](#); [Saari, Christopher A - DNR](#)
Subject: RE: Hayward Landfill Notification Letters
Date: Monday, August 28, 2023 3:51:03 PM
Attachments: [PW-15 Notification Letter_08.22.2023.pdf](#)

**CAUTION: This email originated from outside the organization.
Do not click links or open attachments unless you recognize the sender and know the content is safe.**

Melissa- Thank you for returning my call this afternoon. Per our discussion, please find attached a copy of the notification letter and Department of Health Services (DHS) letter summarizing the results and recommendations associated with the June 2023 PFAS sample collected from your well located at 9989N Ogren Road, Hayward Wi. Veronica will be contacting you to arrange access to resample your well, which will likely occur on September 7th or September 5th. Should you have any questions, please do not hesitate to contact me as provided below or, John Sager (WDNR) and/or Nathan Kloczko (DHS) at the respective locations referenced on the DHS letter. Thank you.

John/Nathan – for future reference, Melissa Wallace’s Duluth address is as follows:

Melissa Wallace
719 South 64th Avenue West
Duluth, MN 55807

Brian L. Kent, CHMM
Principal, Project Manager
Short Elliott Hendrickson Inc.
715.456.4621 mobile | 608.498.4844 direct
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From: Sager, John E - DNR <John.Sager@wisconsin.gov>
Sent: Monday, August 21, 2023 4:05 PM
To: Brian Kent <bkent@sehinc.com>; John McCue <pw3@centurytel.net>
Cc: Kloczko, Nathan F - DHS <nathan.kloczko@dhs.wisconsin.gov>; Saari, Christopher A - DNR <Christopher.Saari@wisconsin.gov>
Subject: RE: Hayward Landfill Notification Letters

I think for now send it to her Hayward address. Attached is the letter. Make sure to forward her a copy when she contacts you and please copy me on any emails or regular mail to her containing the results. Thanks.

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

John Sager

Hydrogeologist – Remediation and Redevelopment Program

Wisconsin Department of Natural Resources

1701 N. 4th St.

Superior, WI 54880

Phone: (715) 919-7239

john.sager@wisconsin.gov



dnr.wi.gov



From: Brian Kent <bkent@sehinc.com>

Sent: Monday, August 21, 2023 3:12 PM

To: Sager, John E - DNR <John.Sager@wisconsin.gov>; John McCue <pw3@centurytel.net>

Cc: Kloczko, Nathan F - DHS <nathan.kloczko@dhs.wisconsin.gov>; Saari, Christopher A - DNR <Christopher.Saari@wisconsin.gov>

Subject: RE: Hayward Landfill Notification Letters

**CAUTION: This email originated from outside the organization.
Do not click links or open attachments unless you recognize the sender and know the content is safe.**

John- Still no response from Melissa Wallace. I left her another voice mail and will let you know if she returns my call. In the interim, should we send to her address in Hayward?

Brian L. Kent, CHMM

Principal, Project Manager

Short Elliott Hendrickson Inc.

715.456.4621 mobile | 608.498.4844 direct

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From: Sager, John E - DNR <John.Sager@wisconsin.gov>

Sent: Tuesday, August 15, 2023 3:26 PM

To: John McCue <pw3@centurytel.net>; Brian Kent <bkent@sehinc.com>

Cc: Kloczko, Nathan F - DHS <nathan.kloczko@dhs.wisconsin.gov>; Saari, Christopher A - DNR <Christopher.Saari@wisconsin.gov>

Subject: FW: Hayward Landfill Notification Letters

John and Brian,

Attached are the DHS and DNR notification of results letters for Hayward Landfill for the City to send to the well owners. I did not include the Melissa Wallace letter because we do not have an address for her yet. Please send me her address as soon as possible so we can get a notification letter sent to her. Please let me know if you have any questions.

Thank you.

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

John Sager

Hydrogeologist – Remediation and Redevelopment Program

Wisconsin Department of Natural Resources

1701 N. 4th St.

Superior, WI 54880

Phone: (715) 919-7239

john.sager@wisconsin.gov



dnr.wi.gov





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August 22, 2023

RE: City of Hayward
PFAS Investigation
SEH No. HAYWA 171210 14.00

Melissa Wallace
9989N Ogren Road
Hayward, WI 54843

Dear Ms. Wallace:

Please find enclosed a letter from the Wisconsin Department of Health and Human Services (DHS) summarizing the analytical results for a groundwater sample collected from your private well on June 5, 2023.

Due to elevated levels of select per- and polyfluoroalkyl substance (PFAS) constituents measured in the June 5, 2023 sample from your private well, the Wisconsin Department of Natural Resources (WDNR) has requested a follow up sample be collected. A representative from SEH will contact you soon to arrange a site visit to collect the sample.

Should you have any questions relating to the letter or results, please do not hesitate to contact me at 608.498.4844, or John Sager (WDNR) and/or Nathan Kloczko (DHS) at the respective locations referenced on the DHS letter.

Sincerely,

A handwritten signature in black ink, appearing to read "B. Kent", is written over a light blue horizontal line.

Brian L. Kent, CHMM
Project Manager

BLK/blk/BKO
Enclosure

c: John Sager, WDNR
Nathan Kloczko, DHS
John McCue, Director of Public Works, Hayward, WI.

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Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 329 Jay Street, Suite 301, La Crosse, WI 54601-4034

608.782.3161 | 888.908.8166 fax | sehinc.com

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Tony Evers
Governor



DIVISION OF PUBLIC HEALTH

1 WEST WILSON STREET
PO BOX 2659
MADISON WI 53701-2659

Kirsten L. Johnson
Secretary

State of Wisconsin
Department of Health Services

Telephone: 608-266-1251
Fax: 608-267-2832
TTY: 711 or 800-947-3529

August 11, 2023

Melissa Wallace
9989 Ogren Road
Hayward, WI 54843

**RE: Laboratory results for PFAS for the water sample collected from your residence at:
9989 North Ogren Road, Hayward**

Dear Melissa Wallace,

Our agency, the Department of Health Services (DHS), recently received notice from the Department of Natural Resources (DNR) of per- and polyfluoroalkyl substances (PFAS) tested in your well located at 9989 North Ogren Road, Hayward. The table on the last page of this letter summarizes these results. The complete laboratory analytical results are also attached. **The levels of PFOA and PFOS were detected in your well water at levels above the Wisconsin recommended public health values.**

You should take action to reduce your exposure to PFAS:

- Use an alternative source of water for drinking and preparing foods that take up a lot of water (like oatmeal, rice, and soup). This includes:
 - Filtered water from a pitcher, sink, or whole-house filter system with a certified filter technology. Our [Reducing PFAS in Your Drinking Water Brochure](http://www.dhs.wisconsin.gov/publications/p03012.pdf) (<http://www.dhs.wisconsin.gov/publications/p03012.pdf>) has information on appropriate devices.
 - Bottled water that has been purified or filtered.
 - Other sources of water that have been tested for PFAS and do not have levels above the public health values.
- Find a long-term solution. Options include installing a certified treatment device or drilling a new well.
- You can continue using the water for bathing and other household chores.

PFAS are a group of man-made chemicals that have been used in many products since the 1950s. Studies among people have shown that exposure to high levels of some PFAS can affect our health. Potential health issues include elevated cholesterol levels, decreased antibody response to certain vaccines, and reduced fertility in women. Additional health information about the health effects of PFAS can be found at www.dhs.wisconsin.gov/chemical/pfas.htm.

You can contact DNR and DHS with questions about PFAS or the water sample results at the numbers provided below.

DNR John Sager
DHS Nathan Kloczko

715-919-7239
608-867-4448

John.Sager@Wisconsin.gov
Nathan.Kloczko@dhs.wisconsin.gov

Sincerely,



Nathan Kloczko, MPH
Site Evaluation Program Coordinator
Bureau of Environmental and Occupational Health

Substance	Result (ng/L)	Recommended Health value (ng/L)	Result above Recommended health value?
PFOS	5.4		
PFOA	19		
FOSA	ND		
NEtFOSA	ND		
NEtFOSAA	ND		
NEtFOSE	ND		
Total of the six above:	24.4	20*	YES
PFNA	ND	30	no
PFHxS	3.6	40	no
HFPO-DA (GenX)	ND	300	no
PFDA	ND	300	no
PFDoA	ND	50	no
DONA	ND	3,000	no
PFUnA	ND	3,000	no
PFBA	9.4	10,000	no
PFTeA	ND	10,000	no
PFHxA	4.2	150,000	no
PFODA	ND	400,000	no
PFBS	5.9	450,000	no

ng/L = nanograms of substance per liter of water – equivalent to parts per trillion (ppt)

*We recommend a combined health value of 20 ng/l for PFOS, PFOA, FOSA, NEtFOSA, NEtFOSAA, and NEtFOSE.

ND stands for “not detected.” This means that the compound may not be present in your water, or if it is present, it is at a level lower than what the lab can measure.

Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH
 Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Client Sample ID: PW-15 (858)

Lab Sample ID: 500-235000-5

Date Collected: 06/05/23 16:00

Matrix: Water

Date Received: 06/08/23 09:50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	9.4		4.3	2.1	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluoropentanoic acid (PFPeA)	4.4		1.7	0.42	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorohexanoic acid (PFHxA)	4.2		1.7	0.50	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluoroheptanoic acid (PFHpA)	3.9		1.7	0.21	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorooctanoic acid (PFOA)	19		1.7	0.73	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluoroundecanoic acid (PFUnA)	<0.94		1.7	0.94	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.76		1.7	0.76	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.81	*1	1.7	0.81	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorobutanesulfonic acid (PFBS)	3.6		1.7	0.17	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluoropentanesulfonic acid (PFPeS)	1.3	J	1.7	0.26	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorohexanesulfonic acid (PFHxS)	3.6		1.7	0.49	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluoroheptanesulfonic acid (PFHpS)	0.20	J	1.7	0.16	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorooctanesulfonic acid (PFOS)	5.4	I	1.7	0.46	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83		1.7	0.83	ng/L		06/22/23 19:56	06/26/23 02:05	1
Perfluorooctanesulfonamide (FOSA)	<0.84		1.7	0.84	ng/L		06/22/23 19:56	06/26/23 02:05	1
NEtFOSA	<0.75		1.7	0.75	ng/L		06/22/23 19:56	06/26/23 02:05	1
NMeFOSA	<0.37		1.7	0.37	ng/L		06/22/23 19:56	06/26/23 02:05	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		06/22/23 19:56	06/26/23 02:05	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		06/22/23 19:56	06/26/23 02:05	1
NMeFOSE	<1.2		3.4	1.2	ng/L		06/22/23 19:56	06/26/23 02:05	1
NEtFOSE	<0.73		1.7	0.73	ng/L		06/22/23 19:56	06/26/23 02:05	1
4:2 FTS	<0.21		1.7	0.21	ng/L		06/22/23 19:56	06/26/23 02:05	1
6:2 FTS	<2.1		4.3	2.1	ng/L		06/22/23 19:56	06/26/23 02:05	1
8:2 FTS	<0.39		1.7	0.39	ng/L		06/22/23 19:56	06/26/23 02:05	1
10:2 FTS	<0.58		1.7	0.58	ng/L		06/22/23 19:56	06/26/23 02:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		06/22/23 19:56	06/26/23 02:05	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		06/22/23 19:56	06/26/23 02:05	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		06/22/23 19:56	06/26/23 02:05	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		06/22/23 19:56	06/26/23 02:05	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	73		25 - 150				06/22/23 19:56	06/26/23 02:05	1
13C5 PFPeA	94		25 - 150				06/22/23 19:56	06/26/23 02:05	1
13C2 PFHxA	97		25 - 150				06/22/23 19:56	06/26/23 02:05	1
13C4 PFHpA	97		25 - 150				06/22/23 19:56	06/26/23 02:05	1
13C4 PFOA	95		25 - 150				06/22/23 19:56	06/26/23 02:05	1

Eurofins Chicago

Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH
 Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Client Sample ID: PW-15 (858)

Lab Sample ID: 500-235000-5

Date Collected: 06/05/23 16:00

Matrix: Water

Date Received: 06/08/23 09:50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFNA	97		25 - 150	06/22/23 19:56	06/26/23 02:05	1
13C2 PFDA	97		25 - 150	06/22/23 19:56	06/26/23 02:05	1
13C2 PFUnA	96		25 - 150	06/22/23 19:56	06/26/23 02:05	1
13C2 PFDoA	89		25 - 150	06/22/23 19:56	06/26/23 02:05	1
13C2 PFTeDA	92		25 - 150	06/22/23 19:56	06/26/23 02:05	1
13C2 PFHxDA	85		25 - 150	06/22/23 19:56	06/26/23 02:05	1
13C3 PFBS	85		25 - 150	06/22/23 19:56	06/26/23 02:05	1
18O2 PFHxS	99		25 - 150	06/22/23 19:56	06/26/23 02:05	1
13C4 PFOS	96		25 - 150	06/22/23 19:56	06/26/23 02:05	1
13C8 FOSA	115		10 - 150	06/22/23 19:56	06/26/23 02:05	1
d3-NMeFOSAA	111		25 - 150	06/22/23 19:56	06/26/23 02:05	1
d5-NEtFOSAA	111		25 - 150	06/22/23 19:56	06/26/23 02:05	1
d-N-MeFOSA-M	81		10 - 150	06/22/23 19:56	06/26/23 02:05	1
d-N-EtFOSA-M	81		10 - 150	06/22/23 19:56	06/26/23 02:05	1
d7-N-MeFOSE-M	83		10 - 150	06/22/23 19:56	06/26/23 02:05	1
d9-N-EtFOSE-M	82		10 - 150	06/22/23 19:56	06/26/23 02:05	1
M2-4:2 FTS	98		25 - 150	06/22/23 19:56	06/26/23 02:05	1
M2-6:2 FTS	79		25 - 150	06/22/23 19:56	06/26/23 02:05	1
M2-8:2 FTS	70		25 - 150	06/22/23 19:56	06/26/23 02:05	1
13C3 HFPO-DA	91		25 - 150	06/22/23 19:56	06/26/23 02:05	1
13C2 10:2 FTS	79		25 - 150	06/22/23 19:56	06/26/23 02:05	1

Definitions/Glossary

Client: Short Elliott Hendrickson, Inc. dba SEH
Project/Site: Hayward Landfill - PFAS

Job ID: 500-235000-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count