MAUL FOSTER ALONGI

Table 1
Analytical Results—Dioxins/Furans
J.H. Baxter Co.—Eugene, Oregon

Location:	CAS Number	Penta Hot Well Influent	Bunker C Oil Solution	50/50 Blend Preservative Solution	Creosote Treating Solution	Penta (PCP) Preservative Solution		Heavy Oil Hot Well Influent	Heavy Oil OWS Chamber Influent		Penta OWS Chamber Influent	Evaporator Influent [a]	Carbon Filter Inlet (Pre-Treat)	Evaporator Blowdown (Recycle)	Stormwater Treatment Influent	Mill Pond
Sample Name:		PCPHW-01	OIL-01	BLND-01	CREO-01	PCP-01	PCP-01-DUP	HOHW-01	OWSHO-01	OWSHO-01-DUP	PCPHO-01	EVAP-02	CFI-01	EV-OUT-01	STRM-01	POND-01
Collection Date:		2/11/2021	2/11/2021	2/11/2021	3/31/2021	2/11/2021	2/11/2021	2/11/2021	2/11/2021	2/11/2021	2/11/2021	6/2/2021	6/2/2021	6/2/2021	2/11/2021	2/11/2021
Units:		pg/g	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g	pg/L	pg/L	pg/L	pg/L	pg/L
1,2,3,4,6,7,8-HpCDD	35822-46-9	22,500 J	2,580 UJ	728,000 J	2,380 U	2,500,000 J	2,670,000 J	15,400 J	2,640 J	2,500 UJ	2,070,000 J	55,300 J	386,000 J	7,970,000 J	96,100 J	13,900 J
1,2,3,4,6,7,8-HpCDF	67562-39-4	18,400 J	2,580 UJ	125,000 J	2,380 U	2,050,000 J	2,180,000 J	12,600 J	2,580 UJ	2,500 UJ	1,740,000 J	16,600 J	188,000 J	2,080,000 J	13,400 J	2,790 J
1,2,3,4,7,8,9-HpCDF	55673-89-7	2,580 UJ	2,580 UJ	3,460 J	2,380 U	147,000 J	150,000 J	2,450 UJ	2,580 UJ	2,500 UJ	126,000 J	1,030 J	12,700 J	144,000 J	631 J	508 UJ
1,2,3,4,7,8-HxCDD	39227-28-6	2,580 UJ	2,580 UJ	4,880 J	2,380 U	12,300 UJ	13,300 UJ	2,450 UJ	2,580 UJ	2,500 UJ	13,300 UJ	274 UJ	3,480 J	98,300 J	6,900 J	511 J
1,2,3,4,7,8-HxCDF	70648-26-9	2,580 UJ	2,580 UJ	2,690 UJ	2,380 U	18,800 J	18,400 J	2,450 UJ	2,580 UJ	2,500 UJ	14,400 J	274 UJ	2,590 J	30,200 J	597 J	508 UJ
1,2,3,6,7,8-HxCDD	57653-85-7	2,580 UJ	2,580 UJ	89,400 J	2,380 U	137,000 J	132,000 J	2,450 UJ	2,580 UJ	2,500 UJ	99,200 J	5,690 J	26,300 J	982,000 J	15,300 J	1,390 J
1,2,3,6,7,8-HxCDF	57117-44-9	2,580 UJ	2,580 UJ	2,690 UJ	2,380 U	12,300 UJ	13,300 UJ	2,450 UJ	2,580 UJ	2,500 UJ	13,300 UJ	274 UJ	2,490 UJ	15,200 J	688 J	508 UJ
1,2,3,7,8,9-HxCDD	19408-74-3	2,580 UJ	2,580 UJ	20,600 J	2,380 U	21,600 J	23,700 J	2,450 UJ	2,580 UJ	2,500 UJ	17,500 J	2,310 J	13,200 J	413,000 J	14,900 J	1,260 J
1,2,3,7,8,9-HxCDF	72918-21-9	2,580 UJ	2,580 UJ	2,690 UJ	2,380 U	12,300 UJ	13,300 UJ	2,450 UJ	2,580 UJ	2,500 UJ	13,300 UJ	274 UJ	2,490 UJ	9,760 UJ	508 UJ	508 UJ
1,2,3,7,8-PeCDD	40321-76-4	2,580 UJ	2,580 UJ	4,220 J	2,380 U	12,300 UJ	13,300 UJ	2,450 UJ	2,580 UJ	2,500 UJ	13,300 UJ	676 J	2,490 UJ	106,000 J	11,000 J	554 J
1,2,3,7,8-PeCDF	57117-41-6	2,580 UJ	2,580 UJ	2,690 UJ	2,380 U	12,300 UJ	13,300 UJ	2,450 UJ	2,580 UJ	2,500 UJ	13,300 UJ	274 UJ	2,490 UJ	9,760 UJ	508 UJ	508 UJ
2,3,4,6,7,8-HxCDF	60851-34-5	2,580 UJ	2,580 UJ	2,690 UJ	2,380 U	12,300 UJ	13,300 UJ	2,450 UJ	2,580 UJ	2,500 UJ	13,300 UJ	274 UJ	2,490 UJ	17,000 J	508 UJ	508 UJ
2,3,4,7,8-PeCDF	57117-31-4	2,580 UJ	2,580 UJ	2,690 UJ	2,380 U	12,300 UJ	13,300 UJ	2,450 UJ	2,580 UJ	2,500 UJ	13,300 UJ	274 UJ	2,490 UJ	9,760 UJ	508 UJ	508 UJ
2,3,7,8-TCDD	1746-01-6	515 UJ	515 UJ	538 UJ	476 U	2,450 UJ	2,660 UJ	490 UJ	515 UJ	500 UJ	2,660 UJ	55 UJ	498 UJ	4,470 J	834 J	102 U
2,3,7,8-TCDF	51207-31-9	515 UJ	515 UJ	538 UJ	476 U	2,450 UJ	2,660 UJ	490 UJ	515 UJ	500 UJ	2,660 UJ	55 UJ	498 UJ	1,950 UJ	102 UJ	102 UJ
OCDD	3268-87-9	96,700 J	5,720 J	1,920,000 J	4,760 U	6,110,000 J	12,500,000 J	66,200 J	9,710 J	7,490 J	9,910,000 J	184,000 J	1,650,000 J	25,000,000 J	210,000 J	47,300 J
OCDF	39001-02-0	206,000 J	9,740 J	225,000 J	4,760 U	19,900,000 J	27,100,000 J	138,000 J	17,800 J	13,800 J	21,500,000 J	163,000 J	2,020,000 J	20,600,000 J	31,400 J	7,770 J
Total HpCDF	38998-75-3	142,000 J	5,370 J	502,000 J	2,380 U	15,900,000 J	17,800,000 J	95,300 J	10,600 J	8,360 J	13,900,000 J	98,600 J	1,130,000 J	14,300,000 J	37,400 J	7,710 J
Total HpCDD	37871-00-4	35,100 J	2,580 UJ	2,570,000 J	2,380 U	3,650,000 J	4,090,000 J	23,600 J	2,640 J	2,500 UJ	3,150,000 J	102,000 J	800,000 J	14,600,000 J	206,000 J	29,600 J
Total HxCDF	55684-94-1	14,100 J	2,580 UJ	160,000 J	2,380 U	1,740,000 J	1,730,000 J	9,390 J	2,580 UJ	2,500 UJ	1,350,000 J	13,600 J	141,000 J	1,820,000 J	13,200 J	1,620 J
Total HxCDD	34465-46-8	2,580 UJ	2,580 UJ	823,000 J	2,380 U	452,000 J	454,000 J	2,450 UJ	2,580 UJ	2,500 UJ	339,000 J	26,500 J	155,000 J	4,780,000 J	174,000 J	14,000 J
Total PentaCDF	30402-15-4	2,580 UJ	2,580 UJ	3,110 J	2,380 U	12,300 UJ	15,300 J	2,450 UJ	2,580 UJ	2,500 UJ	13,300 UJ	274 UJ	2,490 UJ	31,800 J	3,620 J	508 UJ
Total PentaCDD	36088-22-9	2,580 UJ	2,580 UJ	15,400 J	2,380 U	12,300 UJ	13,300 UJ	2,450 UJ	2,580 UJ	2,500 UJ	13,300 UJ	2,030 J	5,860 J	551,000 J	83,200 J	2,650 J
Total TetraCDF	30402-14-3	515 UJ	515 UJ	538 UJ	476 U	7,530 J	7,550 J	490 UJ	515 UJ	500 UJ	3,700 J	55 UJ	1,220 J	17,100 J	128 J	102 UJ
Total TetraCDD	41903-57-5	515 UJ	515 UJ	538 UJ	476 U	3,760 J	4,000 J	490 UJ	515 UJ	500 UJ	2,660 UJ	55 UJ	498 UJ	47,500 J	12,400 J	102 UJ
2,3,7,8-TCDD TEQ [b][1]	NA	1,290 J	1,290 J	8,940 J	2,380 U	25,000 J	26,700 J	1,230 J	1,290 J	1,250 J	20,700 J	2,450 J	13,800 J	384,000 J	11,000 J	554 J

Notes and acronyms are provided on the following page.

Table 1
Analytical Results—Dioxins/Furans
J.H. Baxter Co.—Eugene, Oregon

NOTES:

Results have been validated.

CAS = chemical abstracts service.

J = result is estimated.

NA = not applicable.

pg/g = picograms per gram.

pg/L = picograms per liter.

TEF = toxic equivalency factor.

TEQ = toxicity equivalence.

U = result is non-detect at the method reporting limit.

UJ = result is non-detect with an estimated detection limit.

[a] The evaporator influent was sampled on February 11, 2021 and analyzed per EPA Method 1613B. Results from this initial analysis, displayed below, were taken prior to replacement of the carbon in the treatment system. The evaporator influent was re-sampled on June 2, 2021 subsequent to replacement of the carbon. The re-sampled results are representative of the current facility operation. Initial sampling results from February are provided below, but will not be utilized for purposes of compliance with the Cleaner Air Oregon program.

Location:	Evaporator Influent	
Sample Name:	EVAP-01	EVAP-01-DUP
Collection Date:	2/11/2021	2/11/2021
Units:	pg/L	pg/L
1,2,3,4,6,7,8-HpCDD	371,000 J	454,000 J
1,2,3,4,6,7,8-HpCDF	203,000 J	253,000 J
1,2,3,4,7,8,9-HpCDF	13,600 J	18,200 J
1,2,3,4,7,8-HxCDD	3,370 J	4,540 J
1,2,3,4,7,8-HxCDF	2,490 UJ	2,520 UJ
1,2,3,6,7,8-HxCDD	24,000 J	30,300 J
1,2,3,6,7,8-HxCDF	2,490 UJ	2,520 UJ
1,2,3,7,8,9-HxCDD	12,000 J	15,700 J
1,2,3,7,8,9-HxCDF	2,490 UJ	2,520 UJ
1,2,3,7,8-PeCDD	4,700 J	5,940 J
1,2,3,7,8-PeCDF	2,490 UJ	2,520 UJ
2,3,4,6,7,8-HxCDF	2,490 UJ	2,520 UJ
2,3,4,7,8-PeCDF	2,490 UJ	2,520 UJ
2,3,7,8-TCDD	497 UJ	507 J
2,3,7,8-TCDF	497 UJ	504 UJ
OCDD	1,700,000 J	2,100,000 J
OCDF	2,280,000 J	2,930,000 J
Total HpCDF	1,560,000 J	1,920,000 J
Total HpCDD	722,000 J	891,000 J
Total HxCDF	156,000 J	193,000 J
Total HxCDD	164,000 J	213,000 J
Total PentaCDF	4,100 J	6,800 J
Total PentaCDD	28,200 J	38,200 J
Total TetraCDF	1,470 J	2,140 J
Total TetraCDD	2,890 J	4,240 J
2,3,7,8-TCDD TEQ[a][1]	4,700 J	5,940 J

[b] The 2,3,7,8-TCDD TEQ is calculated as the sum of each detected congener concentration multiplied by the corresponding TEF. Non-detect values are also multiplied by one-half.

REFERENCE:

[1] 2005 World Health Organization consensus TEF values for mammals (Van den Berg et al., 2006).

MAUL FOSTER ALONGI

Table 2
Analytical Results—Polycyclic Aromatic Hydrocarbons, Pentachlorophenol, and Phenols
J.H. Baxter Co.—Eugene, Oregon

Location:	CAS Number	Penta Hot Well Influent		Bunker C Oil Solution		50/50 Blend Preservative Solution		Penta (PCP) Preservative Solution			Heavy Oil Hot Well Influent		Heavy Oil Chamber Oil Water Separator Influent			Penta Chamber Oil Water Separator Influent		Evaporator Influent (Carbon Filter Discharge)			Carbon Filter Inlet (Pre-Treat)	Evaporator Blowdown (Recycle)	Stormwater Treatment Influent	Mill Pond
Sample Name:		PCPHW-01	PCPHW-02	OIL-01	OIL-02	BLND-01	BLND-02	PCP-01	PCP-01-DUP	PCP-02	HOHW-01	HOHW-02	OWSHO-01	OWSHO-01-DUP	OWSHO-02	PCPHO-01	OWSPCP-02	EVAP-01	EVAP-01-DUP	EVAP-02	CFI-01	EV-OUT-01	STRM-01	POND-01
Collection Date:		2/11/2021	6/3/2021	2/11/2021	6/3/2021	2/11/2021	6/3/2021	2/11/2021	2/11/2021	6/3/2021	2/11/2021	6/3/2021	2/11/2021	2/11/2021	6/3/2021	2/11/2021	6/3/2021	2/11/2021	2/11/2021	6/2/2021	6/2/2021	6/3/2021	2/11/2021	2/11/2021
Units:		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/kg	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1-Methylanthracene	610-48-0	-- [a]	--	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	--	--	5.4 UJ	5.4 UJ
1-Methylnaphthalene	90-12-0	-- [a]	2,500	-- [a]	986	-- [a]	15,400	-- [a]	-- [a]	100 U	-- [a]	25,200	-- [a]	-- [a]	1,320 J-	-- [a]	296	-- [a]	-- [a]	155 J-	4,140 J-	240 J-	5.4 UJ	22 J-
1-Methylphenanthrene	832-69-9	-- [a]	96 U	-- [a]	1,300	-- [a]	1,280	-- [a]	-- [a]	100 U	-- [a]	26	-- [a]	-- [a]	20 UJ	-- [a]	98 U	-- [a]	-- [a]	1.9 UJ	20 UJ	50.2 J-	5.4 UJ	5.4 UJ
2,3,4,6-Tetrachlorophenol	121-14-2	-- [a]	--	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	--	--	14 J	11 J
2,3,5,6-Tetrachlorophenol	58-90-2	-- [a]	--	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	--	--	22 J-	11 J-
2,4,5-Trichlorophenol	95-95-4	-- [a]	--	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	--	--	5.4 UJ	5.4 UJ
2,4,6-Trichlorophenol	88-06-2	-- [a]	--	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	--	--	5.4 UJ	5.4 UJ
2,4-Dichlorophenol	120-83-2	-- [a]	--	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	--	--	5.4 UJ	5.4 UJ
2,4-Dimethylphenol	105-67-9	-- [a]	--	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	--	--	5.4 UJ	5.4 UJ
2-Chlorophenol	95-57-8	-- [a]	--	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	--	--	5.4 UJ	5.4 UJ
2-Methyl-4,6-Dinitrophenol	100-01-6	-- [a]	--	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	--	--	5.4 UJ	5.4 UJ
2-Methylanthracene	613-12-7	-- [a]	--	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	--	--	5.4 UJ	5.4 UJ
2-Methylnaphthalene	91-57-6	-- [a]	5,910	-- [a]	1,790	-- [a]	30,000	-- [a]	-- [a]	100 U	-- [a]	60,000	-- [a]	-- [a]	2,580 J-	-- [a]	563	-- [a]	-- [a]	325 J-	8,530 J-	573 J-	5.4 UJ	56 J-
2-Methylphenanthrene	2531-84-2	-- [a]	--	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	--	--	5.4 UJ	5.4 UJ
2-Methylphenol	95-48-7	-- [a]	96 U	-- [a]	97 U	-- [a]	112	-- [a]	-- [a]	100 U	-- [a]	11,700	-- [a]	-- [a]	772 J-	-- [a]	98 U	-- [a]	-- [a]	893 J-	2,180 J-	720 J-	5.4 UJ	5.4 UJ
3/4-Methylphenol	NA	-- [a]	--	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	--	--	5.4 UJ	5.4 UJ
4-Chloro-3-Methylphenol	59-50-7	-- [a]	--	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	--	--	5.4 UJ	5.4 UJ
5-Methylchrysene	3697-24-3	-- [a]	96 U	-- [a]	905	-- [a]	381	-- [a]	-- [a]	100 U	-- [a]	20 U	-- [a]	-- [a]	20 UJ	-- [a]	98 U	-- [a]	-- [a]	1.9 UJ	24 J-	21.2 J-	5.4 UJ	5.4 UJ
9-Methylphenanthrene	779-02-2	-- [a]	--	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	-- [a]	--	-- [a]	-- [a]	--	--	--	5.4 UJ	5.4 UJ
Acenaphthene	83-32-9	-- [a]	755	-- [a]	345	-- [a]	40,000	-- [a]	-- [a]	100 U	-- [a]	9,850	-- [a]	-- [a]	1,610 J-	-- [a]	177	-- [a]	-- [a]	203 J-	5,940 J-	20 UJ	5.4 UJ	7.5 J-
Acenaphthylene	208-96-8	-- [a]	96 U	-- [a]	3,470	-- [a]	100 U	-- [a]	-- [a]	100 U	-- [a]	20 U	-- [a]	-- [a]	20 UJ	-- [a]	98 U	-- [a]	-- [a]	19 UJ	64.4 J-	1,160 J-	5.4 UJ	5.4 UJ
Anthracene	120-12-7	-- [a]	96 U	-- [a]	2,380	-- [a]	6,750	-- [a]	-- [a]	100 U	-- [a]	200	-- [a]	-- [a]	322 J-	-- [a]	98 U	-- [a]	-- [a]	21.9 J-	1,250 J-	245 J-	5.4 UJ	5.4 UJ
Benzo(a)anthracene	56-55-3	-- [a]	96 U	-- [a]	2,670	-- [a]	6,430	-- [a]	-- [a]	100 U	-- [a]	22.4 J	-- [a]	-- [a]	155 J-	-- [a]	98 U	-- [a]	-- [a]	4.88 J	645 J-	559 J-	5.4 UJ	5.4 UJ
Benzo(a)pyrene	50-32-8	-- [a]	96 U	-- [a]	1,980	-- [a]	1,820	-- [a]	-- [a]	100 U	-- [a]	20 U	-- [a]	-- [a]	42.4 J	-- [a]	98 U	-- [a]	-- [a]	2.13 J	166 J-	41.6 J	5.4 UJ	5.4 UJ
Benzo(b)fluoranthene	205-99-2	-- [a]	96 U	-- [a]	1,380	-- [a]	1,840	-- [a]	-- [a]	100 U	-- [a]	20 U	-- [a]	-- [a]	54.4 J	-- [a]	98 U	-- [a]	-- [a]	2.56 J	205 J-	210 J-	5.4 UJ	5.4 UJ
Benzo(g,h,i)perylene	191-24-2	-- [a]	96 U	-- [a]	1,020	-- [a]	564	-- [a]	-- [a]	100 U	-- [a]	20 U	-- [a]	-- [a]	20 UJ	-- [a]	98 U	-- [a]	-- [a]	1.9 UJ	46.6 J-	29.2 J-	5.4 UJ	5.4 UJ
Benzo(k)fluoranthene	207-08-9	-- [a]	96 U	-- [a]	1,360	-- [a]	1,980	-- [a]	-- [a]	100 U	-- [a]	20 U	-- [a]	-- [a]	48.6 J-	-- [a]	98 U	-- [a]	-- [a]	1.96 J-	209 J-	216 J-	5.4 UJ	5.4 UJ
Biphenyl	92-52-4	--	96 U	--	396	--	8,450	--	--	100 U	--	6,990	--	--	461 J-	--	98 U	--	--	48.9 J-	1,770 J-	109 J-	--	--
Carbazole	86-74-8	-- [a]	96 U	-- [a]	1,310	-- [a]	7,970	-- [a]	-- [a]	100 U	-- [a]	67.8	-- [a]	-- [a]	539 J-	-- [a]	98 U	-- [a]	-- [a]	82.8 J-	1,650 J-	742 J-	5.4 UJ	5.4 UJ
Chrysene	218-01-9	-- [a]	96 U	-- [a]	3,680	-- [a]	5,900	-- [a]	-- [a]	100 U	-- [a]	20 U	-- [a]	-- [a]	138 J-	-- [a]	98 U	-- [a]	-- [a]	3.42 J-	605 J-	567 J-	5.4 UJ	5.4 UJ
Dibenz(a,h)anthracene	53-70-3	-- [a]	96 U	-- [a]	97 U	-- [a]	100 U	-- [a]	-- [a]	100 U	-- [a]	20 U	-- [a]	-- [a]	20 UJ	-- [a]	98 U	-- [a]	-- [a]	1.9 UJ	30.2 J	31.8 J	5.4 UJ	5.4 UJ
Dibenzofuran	132-64-9	-- [a]	352	-- [a]	1,420	-- [a]	23,200	-- [a]	-- [a]	100 U	-- [a]	4,100	-- [a]	-- [a]	866 J-	-- [a]	138	-- [a]	-- [a]	42.2 J-	3,310 J-	106 J-	5.4 UJ	5.4 UJ
Fluoranthene	206-44-0	-- [a]	96 U	-- [a]	5,970	-- [a]	40,100	-- [a]	-- [a]	100 U	-- [a]	165	-- [a]	-- [a]	1,170 J-	-- [a]	119	-- [a]	-- [a]	45 J-	4,240 J-	2,460 J-	5.4 UJ	5.4 UJ
Fluorene	86-73-7	-- [a]	198	-- [a]	2,420	-- [a]	21,700	-- [a]	-- [a]	100 U	-- [a]	1,930	-- [a]	-- [a]	722 J-	-- [a]	113	-- [a]	-- [a]	42.6 J-	2,940 J-	184 J-	5.4 UJ	5.4 UJ
Indeno(1,2,3-c,d)pyrene	193-39-5	-- [a]	96 U	-- [a]	901	-- [a]	576	-- [a]	-- [a]	100 U	-- [a]	20 U	-- [a]	-- [a]	25.6 J	-- [a]	98 U	-- [a]	-- [a]	1.9 UJ	55.2 J	41 J	5.4 UJ	5.4 UJ
Naphthalene	91-20-3	-- [a]	16,500	-- [a]	18,600	-- [a]	21,400	-- [a]	-- [a]	100 U	-- [a]	143,000	-- [a]	-- [a]	6,030 J-	-- [a]	1,150	-- [a]	-- [a]	1,490 J-	14,600 J-	819 J-	6.1 J-	170 J-
Pentachlorophenol	87-86-5	-- [a]	37,800	-- [a]	97 U [b]	-- [a]	1,070 [b]	-- [a]	-- [a]	68,900	-- [a]	--	-- [a]	-- [a]	330,000 J	-- [a]	67,100	-- [a]	-- [a]	258,000 J	389,000 J	2,820,000 J	100 J-	32 J-
Phenanthrene	85-01-8	-- [a]	118	-- [a]	9,350	-- [a]	54,400	-- [a]	-- [a]	100 U	-- [a]	1,040	-- [a]	-- [a]	1,700 J-	-- [a]	164	-- [a]	-- [a]	66.4 J-	6,530 J-	967 J-	5.4 UJ	5.4 UJ
Phenol	108-95-2	100 U	--	900	--	794	--	250 U	250 U	--	-- [a]	36,000	4,990	4,220	--	65	--	1,700	2,000	--	--	--	5.4 UJ	5.4 UJ
Pyrene	129-00-0	-- [a]	96 U	-- [a]	4,850	-- [a]	24,700	-- [a]	-- [a]	100 U	-- [a]	54.2	-- [a]	-- [a]	629 J-	-- [a]	98 U	-- [a]	-- [a]	16.3 J-	65.4 J-	1,490 J-	5.4 UJ	5.4 UJ
Quinoline	91-22-5	-- [a]	96 U	-- [a]	319	-- [a]	8,300	-- [a]	-- [a]	100 U	-- [a]	90,000	-- [a]	-- [a]	10,700 J-	-- [a]	115	-- [a]	-- [a]	11,000 J-	35,300 J-	5,200 J-	5.4 UJ	20 J-

NOTES:

Results have been validated.

-- = not analyzed.

CAS = chemical abstracts service.

J = result is estimated.

J- = result is estimated with a potential low bias.

mg/kg = milligrams per kilogram.

NA = not applicable.

PAH = polycyclic aromatic hydrocarbon.

ug/L = micrograms per liter.

U = result is non-detect at the method reporting limit.

UJ = result is non-detect with an estimated detection limit.

[a] Analysis performed, but following recommendations from the analytical laboratory, the sampling result was invalidated due to analytical quality control issues.

[b] Analysis for Pentachlorophenol was not requested in the chain of custody form and is not shown in the analytical laboratory report, but is presented the electronic data deliverable provided by the analytical laboratory. See samples OIL-02 and BLND-02.

MAUL FOSTER ALONGI

Table 3
Analytical Results—Aldehydes, BTEX, Methanol, Ammonia, and Metals
J.H. Baxter Co.—Eugene, Oregon

Location:	(Units)	CAS Number	Penta Hot Well Influent	Bunker C Oil Solution	50/50 Blend Preservative Solution	Heavy Oil Hot Well Influent		ACZA Hot Well Influent	Heavy Oil Chamber Oil Water Separator Influent		Penta Chamber Oil Water Separator Influent		Evaporator Influent (Carbon Filter Discharge)			Storm Water Treatment Influent	Mill Pond
Sample Name:			PCPHW-01	OIL-01	BLND-01	HOHW-01	HOHW-02	ACZAHW-01	OWSHO-01	OWSHO-01-DUP	PCPHO-01	OWSPCP-02	EVAP-01	EVAP-01-DUP	EVAP-02	STRM-01	POND-01
Collection Date:			2/11/2021	2/11/2021	2/11/2021	2/11/2021	6/3/2021	2/11/2021	2/11/2021	2/11/2021	2/11/2021	6/3/2021	2/11/2021	2/11/2021	6/2/2021	2/11/2021	2/11/2021
Aldehydes																	
Acetaldehyde	(mg/L)	75-07-0	5.5	--	--	0.59	24.68 J	0.87	5.65	5.73	1.42	--	2.11	1.98	--	--	--
Acrolein	(mg/L)	107-02-8	0.32 J-	--	--	0.25 R	0.25 UJ	0.25 R	0.25 UJ	0.25 R	0.25 R	--	0.25 R	0.25 R	--	--	--
Formaldehyde	(mg/L)	50-00-0	26.88	--	--	0.25 U	2.18	0.25 U	1.38	1.37	0.57 J-	--	0.68 J	0.64 J	--	--	--
Propanal	(mg/L)	123-38-6	1.11 J-	--	--	0.25 UJ	2.51 J	0.25 UJ	0.72 J-	0.77 J-	1.86 J-	--	0.25 UJ	0.25 UJ	--	--	--
Miscellaneous																	
Methanol	(mg/L)	67-56-1	1,980	--	--	50 U	--	623 R	387	441	--	--	191 R	145 R	--	--	--
Methanol	(mg/kg)	67-56-1	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--
Ammonia-N	(mg/L)	7664-41-7	--	--	--	--	--	14,100	185	169	--	--	157	171	--	--	--
BTEX																	
Benzene	(ug/L)	71-43-2	3.06 U	--	--	4,950	--	52.9 J	36.6 J	4.4 UJ	--	--	3.95 UJ	4.95 UJ	--	0.5 UJ	0.5 UJ
Ethylbenzene	(ug/L)	100-41-4	0.25 U	--	--	17,800	--	70.7 J	113 J	189 J	--	--	23.9 J	42.1 J	--	0.64 UJ	2.86 UJ
m,p-Xylene	(ug/L)	179601-23-1	0.25 U	--	--	31,000 J	--	141 J	340 J	586 J	--	--	52.4 J	84.9 J	--	1 UJ	5.56 J
o-Xylene	(ug/L)	95-47-6	0.25 U	--	--	13,600	--	62.5 J	231 J	408 J	--	--	28.2 J	41.7 J	--	0.5 UJ	2.64 UJ
Toluene	(ug/L)	108-88-3	0.5 U	--	--	12,700	--	26.7 J	28.5 J	43.4 J	--	--	15.2 J	24.1 J	--	0.62 UJ	1.86 UJ
Benzene	(mg/kg)	71-43-2	--	261	50 U	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	(mg/kg)	100-41-4	--	65.5	50 U	--	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylene	(mg/kg)	179601-23-1	--	359	50 U	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	(mg/kg)	95-47-6	--	141	50 U	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	(mg/kg)	108-88-3	--	290	50 U	--	--	--	--	--	--	--	--	--	--	--	--
Total Metals																	
Arsenic	(ug/L)	7440-38-2	--	--	--	--	--	--	--	--	--	--	5,645.79 J	7,405.85 J	37,030.51	--	--
Barium	(ug/L)	7440-39-3	--	--	--	--	--	--	--	--	--	--	10 U	10 U	100 U	--	--
Beryllium	(ug/L)	7440-41-7	--	--	--	--	--	--	--	--	--	--	10 U	10 U	20 U	--	--
Cadmium	(ug/L)	7440-43-9	--	--	--	--	--	--	--	--	--	--	10 U	10 U	20 U	--	--
Chromium	(ug/L)	7440-47-3	--	--	--	--	--	--	--	--	--	--	10 U	10 U	20 U	--	--
Cobalt	(ug/L)	7440-48-4	--	--	--	--	--	--	--	--	--	--	10 U	10 U	20 U	--	--
Copper	(ug/L)	7440-50-8	--	--	--	--	--	--	--	--	--	--	3,560.88	3,436.34	30,603	--	--
Lead	(ug/L)	7439-92-1	--	--	--	--	--	--	--	--	--	--	10 U	10 U	100 U	--	--
Manganese	(ug/L)	7439-96-5	--	--	--	--	--	--	--	--	--	--	25.769	14.348	20 U	--	--
Mercury	(ug/L)	7439-97-6	--	--	--	--	--	--	--	--	--	--	5 U	5 U	10 U	--	--
Nickel	(ug/L)	7440-02-0	--	--	--	--	--	--	--	--	--	--	10 U	10 U	20 U	--	--
Selenium	(ug/L)	7782-49-2	--	--	--	--	--	--	--	--	--	--	10 U	20 U	100 U	--	--
Vanadium	(ug/L)	7440-62-2	--	--	--	--	--	--	--	--	--	--	15.443	21.997	25.615	--	--
Zinc	(ug/L)	7440-66-6	--	--	--	--	--	--	--	--	--	--	309.72 J	274.84 J	2130.84	--	--

NOTES:

Results have been validated.

-- = not analyzed.

BTEX = benzene, toluene, ethylbenzene, and xylenes.

CAS = chemical abstracts service.

J = result is estimated.

J- = result is estimated with a potential low bias.

mg/kg = milligrams per kilogram.

mg/L = milligrams per liter.

R = result is rejected.

U = result is non-detect at the method reporting limit.

ug/L = micrograms per liter.

UJ = result is non-detect with an estimated detection limit.