

PFAS solid burn trials report

Appendix 4: DRE calculation for carbon trial

PFAS above detection limits	Bottom ashes 1 (BCAR 26/01-1) (µg/kg)	Bottom ashes 2 (BCAR 26/01-2) (µg/kg)	Fly ashes 1 (FACAR 26/01-1) (µg/kg)	Fly ashes 2 (FACAR 26/01-2) (µg/kg)	Quench water 1 (QCAR 26/02-1) (µg/L)	Quench water 2 (QCAR 26/02-2) (µg/L)	Stack (µg)	Waste (µg/kg)	DRE (%) on conc	DRE (%) on mass
Fluorotelomer sulfonic acids										
4:2 FTSA	6.00	6.20	0.00	0.00	0.00	0.00	0.00	5.35	NA	NA
6:2 FTSA	7,400.00	17,000.00	0.00	0.00	2.20	0.22	0.00	327.50	NA	NA
8:2 FTSA	98.00	230.00	0.00	0.00	0.00	0.00	0.00	42.50	NA	NA
Perfluoroalkyl carboxylic acids (PFCAs)										
PFBA	1,400.00	5,000.00	0.00	0.00	2.40	170.00	221.72	142.25	NA	NA
PFPeA	2,500.00	9,700.00	0.00	0.00	1.90	53.00	289.80	2,137.50	NA	NA
PFHxA	7,800.00	25,000.00	0.00	0.00	1.50	30.00	0.00	852.50	NA	NA
PFHpA	900.00	2,100.00	0.00	0.00	0.03	0.53	0.00	77.75	NA	NA
PFOA	2,100.00	5,300.00	0.00	0.00	0.04	0.26	0.00	192.00	NA	NA
PFNA	36.00	78.00	0.00	0.00	0.00	0.00	0.00	10.40	NA	NA
PFDA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	NA	NA
Perfluoroalkylsulfonamido substances										
FOSA	19.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	NA	NA

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Perfluoroalkyl sulfonic acids										
PFBS	1,500.00	5,000.00	0.00	0.00	0.27	8.40	0.00	22.50	NA	NA
PFNS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.95	NA	NA
PFPrS	360.00	1,800.00	0.00	0.00	0.03	17.00	0.00	9.80	NA	NA
PFPeS	2,700.00	6,600.00	0.00	0.00	0.06	1.30	0.00	26.75	NA	NA
PHFxS	13,000.00	32,000.00	0.00	0.00	0.29	2.00	0.00	184.25	NA	NA
PFHpS	1,200.00	3,000.00	0.00	0.00	0.01	0.00	0.00	28.45	NA	NA
PFOS	5,900.00	18,000.00	0.00	0.00	0.07	0.15	0.00	1,172.50	NA	NA
PFDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.23	NA	NA
Sum of PFAS above detection limit										
ug/kg	46,919.00	130,835.20	0.00	0.00	8.80	282.86		5,251.95	NA	NA
Quantity of waste/ashes/quench (L or kg)	1,790.00				1,600.00			2,615.00	NA	NA
Quantity PFAS total (mg)	159,090.01		0.00		233.33		0.51	13,733.85	NA	NA
TOF (mg/kg)	690	2800	1000	960	4.6	3.5		40	NA	NA