

Table - Sediment Reference Material Results - K1806131

Analyte	CAS Number	Reference Material Source	Range of Expected Results	Analytical Method	Laboratory Results	
					ALS Kelso K1806131	TA Seattle 580-78968
<u>Chlorinated Pesticides (µg/kg)</u>						
Aldrin	309-00-2	SRM 1944	--	EPA 1699 GC/MS/MS	2.0 U	NA
Chlordanes	57-74-9	SRM 1944	--		--	NA
Chlordane, oxy-	27304-13-8	SRM 1944	--		NA	NA
Chlordane, gamma (trans)	5103-74-2	SRM 1944 ^b	17.3 - 20.7		27	NA
Chlordane, alpha (cis)	5103-71-9	SRM 1944 ^a	15.68 - 17.34		18	NA
Nonachlor, trans-	39765-80-5	SRM 1944 ^a	7.69 - 8.71		12	NA
Nonachlor, cis-	5103-73-1	SRM 1944 ^b	3.0 - 4.4		2.8	NA
Dieldrin	60-57-1	SRM 1944	--		10	NA
Lindane	58-89-9	SRM 1944 ^b	1.7 - 2.3		2.0 U	NA
2,4'-DDD	53-19-0	SRM 1944 ^b	30 - 46		51	NA
2,4'-DDE	3424-82-6	SRM 1944 ^b	16 - 22		26	NA
2,4'-DDT	789-02-6	SRM 1944	--		2.0 U	NA
4,4'-DDD	72-54-8	SRM 1944 ^b	92 - 124		96	NA
4,4'-DDE	72-55-9	SRM 1944 ^b	74 - 98		110	NA
4,4'-DDT	50-29-3	SRM 1944 ^b	138 - 202		130	NA
<u>Polycyclic Aromatic Hydrocarbons (µg/kg)</u>						
Acenaphthene	83-32-9	SRM 1944 ^b	360 - 420	EPA 8270D-SIM	110	240
Acenaphthylene	208-96-8	SRM 1944	--		350	720
Anthracene	120-12-7	SRM 1944 ^b	1,060 - 1,200		530	870
Benzo(a)anthracene	56-55-3	SRM 1944 ^a	4,610 - 4,830		2600	3600
Benzo(a)pyrene	50-32-8	SRM 1944 ^a	4,170 - 4,430		2100	2300
Benzo(b)fluoranthene	205-99-2	SRM 1944 ^a	3,450 - 4,290		3000	3900
Benzo(g,h,i)perylene	191-24-2	SRM 1944 ^a	2,740 - 2,940		1400	2100
Benzo(k)fluoranthene	207-08-9	SRM 1944 ^a	2,100 - 2,500		1100	1300
Chrysene	218-01-9	SRM 1944 ^a	4,760 - 4,960		3400	4000
Dibenz(a,h)anthracene	53-70-3	SRM 1944 ^a	355 - 493		450	610
Dibenzofuran	132-64-9	SRM 1944	--		140	NA
Fluoranthene	206-44-0	SRM 1944 ^a	8,600 - 9,240		4700	6400
Fluorene	86-73-7	SRM 1944 ^b	440 - 520		150	250
Indeno(1,2,3-cd)pyrene	193-39-5	SRM 1944 ^a	2,680 - 2,880		1600	1800
2-Methylnaphthalene	91-57-6	SRM 1944 ^b	680 - 800		230	420
Naphthalene	91-20-3	SRM 1944 ^b	1,240 - 1,320		420	640
Phenanthrene	85-01-8	SRM 1944 ^a	5,050 - 5,490		2600	3600
Pyrene	129-00-0	SRM 1944 ^a	9,280 - 10,120		5100	6700

Notes:

a. Certified Mass Fraction Value. A NIST-certified value is a value for which NIST has the highest confidence in its accuracy in that all known or suspected sources of bias have been investigated or taken into account. The certified values for the PAHs, PCB congeners, and chlorinated pesticides are based on the agreement of results obtained at NIST using two or more chemically independent analytical techniques. The certified values for the trace elements are based on NIST measurements by one technique and additional results from several collaborating laboratories.

b. Reference Mass Fraction Value. Reference values are noncertified values that are the best estimate of the true value; however, the values do not meet the NIST criteria for certification and are provided with associated uncertainties that may reflect only measurement precision, may not include all sources of uncertainty, or may reflect a lack of sufficient statistical agreement among multiple analytical methods.

SRM 1944 obtained from NIST.

Acronyms:

µg/kg = microgram per kilogram
 ALS = ALS Environmental
 CAS = Chemical Abstract Service
 DDD = dichlorodiphenyldichloroethane
 DDE = dichlorodiphenyldichloroethylene
 DDT = dichlorodiphenyltrichloroethane
 EPA = United States Environmental Protection Agency
 GC/MS/MS = gas chromatography/tandem mass spectroscopy
 NA = not analyzed

NIST = National Institute of Standards and Technology
 PAH = polycyclic aromatic hydrocarbon
 PCB = polychlorinated biphenyl
 RM = Reference Material
 SIM = selected ion monitoring
 SRM = Standard Reference Material
 TA = TestAmerica Laboratories, Incorporated
 U = Not detected at detection limit shown