## **Appendix A: Analytical Methods**

The archived sample of DSDP Leg 58 and ODP Leg 131 used in our analyses are stored at the Texas A&M University. Researchers can apply for use of these archived samples using the website of the ODP [URL1].

Bulk analyses of major and trace elements were carried using a ZSX Primus II XRF spectrometer at the Atmosphere and Ocean Research Institute (AORI) and an Agilent model 7500c inductively coupled plasma mass spectrometer (ICP-MS) at the Department of Systems Innovation, School of Engineering, University of Tokyo (using acid fusion methods).

Analyses of major elements, Co and Cr by XRF were conducted using glass beads. Samples were cut into slabs, washed with distilled water, and finely ground in an agate ball mill grinder. One gram of each powdered sample was dried at 110°C for 10 hours and weighed to obtain weight percent H<sub>2</sub>O loss. The dried samples were then ignited at 950°C for 4 hours and weighed to obtain loss on ignition (LOI). Fused disks were prepared with a lithium tetraborate (Li<sub>2</sub>B<sub>4</sub>O<sub>7</sub>) flux at a dilution ratio of 1:10. For other trace element analyses, pressed powder pellets (~4 g of the sample) were inserted into a polyvinyl acetate ring holder (Goto and Tatsumi, 1991). Data from the analyses of major and trace elements using XRF are presented in Appendix Table 1.

Trace element analyses by ICP-MS were performed using the acid-dissolving process following the procedure reported by Machida et al (2008). Powdered samples (0.05 g) were digested completely with a HNO<sub>3</sub>-HClO<sub>4</sub>-HF mixed acid in a tightly sealed Teflon

screw-cap beaker and then evaporated. The dried material was then dissolved in a HNO<sub>3</sub>-HCl-HF mixed acid. Analyses were conducted in a dilute HNO<sub>3</sub> matrix at a 1/4,000 concentration of dissolved solids. Analysis was carried out by the standard addition technique described by Kato et al (2005). Data gathered by ICP-MS data are presented in Appendix Table 2.

## References

Goto, A and Tatsumi, Y., 1991, Quantitative analysis of rock sample using X-ray fluorescence analyzer. *Rigaku-Denki Jour.*, **22**, 28–44.\*

Kato, Y., Fujinaga, K. and Suzuki, K., 2005, Major and trace element geochemistry and Os isotopic composition of metalliferous umbers from the Late Cretaceous Japanese accretionary complex. *Geochem. Geophys. Geosys.*, **6**, Q07004. doi:10.1029/2005G C000920

Machida, S., Ishii, T., Kimura, J.-I., Awaji, S. and Kato, Y., 2008, Petrology and geochemistry of across-chains in the Izu-Bonin back arc: three mantle components with contributions of hydrous liquids from a deeply subducted slab. *Geochem Geophys Geosyst* 9, Q05002. doi:10.1029/2007GC001641

[URL1] Ocean Drilling Program Scientific Operator, http://www-odp.tamu.edu

<sup>\*</sup>in Japanese

## Appendix Table 1.

Sample ID	mbsf	SiO2	TiO2	Al <sub>2</sub> O <sub>3</sub>	Fe2O3	MnO	MgO	CaO	Na <sub>2</sub> O	K2O	P2O5	Total	H2O(-)	LOI	Со	Cr	Ва	Nb	Ni	Pb	Rb	Sr	Th	Υ	Zr
Site 442		wt%													ppm										
442A, 31R-1, 75-78	285.75	50.46	1.32	15.98	9.62	0.15	6.39	13.01	2.70	0.26	0.14	100.03	0.65	0.81	32.8	216	31.1	3.6	43.0	1.7	4.3	161	0.8	26.3	65.5
442A ,31R-1, 86-95	285.86	49.17	1.29	15.57	9.14	0.14	6.33	13.89	2.55	0.26	0.15	98.49	0.81	1.61	32.4	217	29.4	3.7	43.4	0.3	4.3	162	0.9	25.9	63.5
442A, 32R-2, 86-91	290.86	50.89	1.20	16.06	8.42	0.11	6.94	13.22	2.59	0.28	0.11	99.81	1.66	1.79	40.2	259	32.0	3.7	85.1	0.9	3.0	166	0.8	25.1	63.1
442A, 32R-2, 92-99	290.92	50.75	1.19	15.91	9.18	0.12	6.78	12.82	2.63	0.36	0.11	99.85	1.53	1.72	32.3	250	26.4	3.5	52.0	2.9	5.5	161	0.3	24.5	61.4
442A, 34R-1, 72-79	304.72	51.13	1.22	16.22	10.11	0.14	6.24	11.81	2.78	0.47	0.12	100.22	1.52	1.22	28.4	225	33.3	3.2	33.2	0.9	12.6	160	0.9	24.2	61.7
442A, 34R-1, 72-78	304.72	50.59	1.24	15.97	9.99	0.14	6.19	11.88	2.73	0.46	0.12	99.30	1.62	1.16	28.4	217	26.5	3.6	34.5	0.6	11.7	160	1.1	24.5	62.8
442B, 3R-3, 40-46	289.90	50.57	1.41	15.87	10.63	0.18	6.05	11.84	2.75	0.39	0.22	99.90	0.79	0.37	35.2	179	34.9	3.8	37.2	1.8	6.4	162	0.1	26.8	66.4
442B, 3R-3, 136-139	290.86	50.19	1.42	16.20	9.91	0.14	6.28	12.76	2.73	0.28	0.17	100.08	1.36	1.17	35.5	232	34.6	3.8	47.2	0.7	3.5	166	0.5	27.2	69.3
442B, 5R-2, 56-64	307.56	50.85	1.27	16.38	8.72	0.11	7.40	11.77	2.75	0.24	0.12	99.60	1.46	1.07	41.3	246	37.1	3.6	162	1.2	1.7	167	1.3	26.7	68.0
442B, 5R-2, 94-101	307.94	50.80	1.23	16.28	8.74	0.11 0.13	7.40	11.91	2.73	0.37	0.11	99.68	2.04	1.77	36.7	249 244	30.3 24.0	3.5 3.4	76.8 50.2	0.5	4.7	167	0.5	25.1	65.4
442B, 6R-2, 32-36	316.82	50.54	1.24	16.16	9.42		6.44	12.82	2.64	0.28 0.37	0.14	99.80	1.81	1.65	30.1					0.4	3.7	165	0.9	25.3	64.1 66.3
442B, 6R-2, 140-148	317.90	50.27	1.27	16.77	9.06	0.13	6.73	12.02	2.76		0.12	99.50	1.75	1.46	30.0	244	28.3	3.4	50.9	1.1	3.0	172	0.3	25.7	
442B, 11R-2, 49-55	364.49	49.52	1.70	17.40	11.99 12.02	0.15	3.71	11.88	2.85	0.45	0.26	99.92	1.62 1.79	1.25	28.7	176	32.7	4.4	44.9	17.7 18.7	3.6	149	0.5	30.2	76.9 77.3
442B, 11R-2, 86-93	364.86	49.46	1.71	17.45		0.16	3.61	11.94	2.81	0.46 0.49	0.27	99.89		1.28	29.0 34.9	171 171	30.3	4.5	46.2		4.6	150	0.9	30.0 30.2	77.3 77.3
442B, 12R-1, 93-99	372.93	49.45	1.71	17.56	12.08	0.17	3.36	12.09	2.83		0.31	100.05	1.55	1.34			40.0	4.3	46.4	22.0	4.6	153	0.8		
442B, 12R-1, 116-123	373.16	49.10	1.70	17.22	12.19	0.21	3.42	12.05	2.84	0.53	0.29	99.56	1.62	1.32	50.7	179	37.5	4.4	53.9	18.7	6.5	149	0.6	29.5	76.0
Site 443																									
443, 49R-3, 123-128	457.73	50.41	1.67	16.23	10.04	0.29	5.66	12.29	2.90	0.21	0.16	99.84	1.04	0.51	40.1	230	39.0	5.0	48.7	33.7	1.8	140	1.1	29.2	75.2
443, 52R-1, 0-5	477.50	50.43	1.59	16.68	9.72	0.28	5.52	12.47	2.90	0.19	0.15	99.93	0.89	0.71	40.0	230	36.3	4.8	50.7	10.6	1.6	143	0.8	28.4	73.2
443, 52R-1, 84-89	478.34	48.55	1.35	15.85	10.31	0.17	5.62	15.10	2.59	0.31	0.13	99.97	1.38	3.31	38.6	252	19.1	3.9	66.4	1.6	5.1	147	0.6	24.9	60.5
443, 53R-2, 114-122	484.64	50.11	1.40	16.19	10.34	0.15	6.43	12.31	2.83	0.26	0.12	100.12	1.18	1.28	44.2	245	26.2	3.9	80.7	0.2	3.1	150	0.8	26.0	64.4
443, 55R-1, 83-89	501.83	49.07	1.76	14.76	11.43	0.18	6.52	12.41	2.46	0.38	0.19	99.15	2.52	2.30	41.0	229	42.1	5.1	68.2	0.7	4.0	150	0.7	30.5	77.8
443, 55R-1, 100-106	502.00	48.86	1.66	14.68	10.94	0.15	7.41	12.01	2.31	0.33	0.17	98.51	3.46	2.12	42.1	236	32.9	4.9	86.0	0.5	3.8	148	0.8	29.5	75.1
443, 55R-1, 142-148	502.42	49.09	1.72	14.69	11.35	0.15	7.12	11.59	2.37	0.36	0.17	98.61	3.17	1.95	42.5	223	31.2	5.2	84.6	0.4	4.0	146	0.6	30.4	76.6
443, 55R-2, 113-119	503.63	49.29	1.64	14.59	11.01	0.14	7.42	11.74	2.44	0.34	0.17	98.78	10.16	2.09	34.4	232	32.1	5.0	94.6	0.2	3.3	146	0.3	29.5	74.1
443, 58R-4, 28-35	524.78	51.19	1.82	15.15	9.42	0.10	8.46	9.53	2.91	0.27	0.18	99.02	1.79	1.35	47.3	246	55.9	5.3	122	0.5	2.9	146	0.6	30.9	87.4
443, 59R-2, 10-15	531.10	49.71	1.28	15.82	9.75	0.13	7.46	11.55	2.76	0.23	0.09	98.80	1.14	1.44	42.4	286	48.1	3.4	115	n.d.	2.5	151	0.4	25.3	61.3
443, 59R-2, 91-97	531.91	49.51	1.28	15.88	9.65	0.14	7.63	11.72	2.72	0.12	0.09	98.74	0.96	0.73	42.0	282	21.5	3.5	97.5	0.4	1.7	138	0.4	25.3	59.4
443, 59R-3, 0-6	542.50	49.54	1.29	15.88	9.57	0.13	8.03	11.39	2.74	0.14	0.09	98.79	1.22	1.22	43.0	288	24.1	3.6	99.9	0.7	1.7	136	0.4	25.3	58.8
443, 59R-3, 96-103	543.46	50.28	1.31	16.08	9.48	0.13	7.78	11.43	2.85	0.25	0.10	99.69	1.61	1.55	48.1	289	22.8	3.5	141	0.3	2.9	136	0.3	25.6	60.3
443, 60R-2, 104-110	541.54	49.69	1.28	15.96	9.73	0.16	8.58	11.07	2.65	0.10	0.09	99.30	0.87	1.60	41.6	282	17.9	3.5	89.5	0.4	1.4	127	0.5	25.3	57.5
443, 60R-4, 0-10	543.50	49.10	1.29	15.65	9.72	0.17	8.21	11.24	2.63	0.08	0.09	98.19	0.92	1.58	38.5	282	19.3	3.7	82.2	0.4	1.3	134	0.7	25.4	59.0
443, 61R-3, 10-17	551.60	49.35	1.28	16.14	9.73	0.15	7.09	12.08	2.68	0.21	0.09	98.82	1.31	0.74	40.2	288	19.5	3.5	91.3	0.3	2.9	148	0.1	25.0	60.2
443, 61R-3, 36-42	551.86	49.79	1.26	16.37	9.69	0.15	6.99	12.18	2.72	0.23	0.09	99.46	1.79	1.04	42.1	293	18.7	3.4	108	0.7	3.4	153	0.9	24.7	60.2
443, 61R-3, 98-102	552.48	49.38	1.28	15.89	9.58	0.14	8.19	11.55	2.60	0.07	0.09	98.76	1.47	1.14	41.9	283	17.1	3.4	95.3	0.4	1.1	135	0.7	25.3	58.5
Site 444	244.24	FO 40	2 22	1024	0.20	0.16	F 70	0.50	2.00	2.50	0.44	00.50	1.00	2.76	27.2	110	104	100	20.0	2.0	12.0	202	1.0	21.1	107.2
444A, 20R-1, 74-79	244.24	50.40	2.23	16.34	9.26	0.16	5.79	8.59	3.90	2.50	0.44	99.59	1.98	2.76	27.2	110	184	18.9	30.9	2.6	12.0	382	1.8		187.3
444A, 20R-2, 4-10	245.04	48.78	1.60	16.52	9.01	0.15	9.28	8.41	3.40	2.02	0.33	99.50	2.70	2.38	41.0	241	148	14.3	154	2.7	12.8	264	2.1		124.5
444A, 24R-1, 89-93	279.39	49.76	1.72	15.47	10.81	0.20	6.88	11.19	2.82	0.26	0.22	99.31	1.39	0.83	37.2	217	104	6.5	50.8	7.6	3.0	137	0.6	30.6	86.7
444A, 27R-1, 78-84 444A, 27R-5, 71-77	301.28 307.21	49.53 49.06	1.44 1.54	16.60 15.58	9.70 10.37	0.16 0.17	7.70 7.69	11.33 11.13	2.65 2.64	0.26 0.31	0.18 0.19	99.54 98.67	0.82 0.93	0.90 0.54	38.8 43.3	269 267	51.1 63.2	5.9 5.9	82.0 78.6	n.d. 1.1	2.6 3.1	151 141	0.8 0.5	27.8 28.4	79.1 80.1
444A, 27K-3, 71-77	307.21	45.00	1.54	13.30	10.57	0.17	7.03	11.13	2.04	0.31	0.15	30.07	0.93	0.34	43.3	201	03.2	3.5	70.0	1.1	3.1	141	0.3	20.4	00.1
Site 808																									
808, 106R-1, 113-118	1300.23	49.13	1.57	16.63	9.15	0.22	6.49	11.81	3.05	0.08	0.13	98.25	1.73	1.33	56.6	264									
808, 106R-2, 2-8	1300.62	47.84	1.30	16.06	9.97	0.18	8.39	12.53	2.56	0.07	0.11	99.01	1.92	3.21	37.0	255	17.2	3.2	88.3	1.3	1.7	206	0.2	23.5	76.5
808, 106R-2, 23-30	1300.83	48.19	1.47	16.42	9.68	0.14	7.06	11.35	2.81	0.07	0.13	97.33	1.21	1.53	40.4	256	21.7	3.6	93.8	2.9	1.1	186	0.6	26.3	85.2
808, 106R-2, 55-66	1301.15	48.67	1.50	16.64	9.79	0.15	7.12	11.40	2.87	0.07	0.13	98.33	1.20	1.59	46.4	262	24.2	3.8	100.5	0.5	0.8	185	0.5	26.6	85.8
808, 106R-2, 71-76	1301.31	48.87	1.49	16.70	9.61	0.17	7.14	11.88	2.88	0.07	0.13	98.93	1.19	2.07	41.7	259	19.9	3.8	101.9	2.3	1.0	274	0.5	26.5	101.8
808, 107R-1, 21-28	1308.51	48.89	1.57	14.89	10.12	0.21	6.68	12.30	2.81	0.14	0.15	97.75	1.33	0.85	41.9	279	32.7	4.9	56.2	1.1	2.4	170	0.6	27.2	79.8
808, 107R-1, 46-52	1308.76	49.18	1.58	15.08	9.84	0.20	6.44	12.43	2.76	0.08	0.15	97.74	1.57	0.59	41.7	282	44.1	5.4	61.9	6.7	0.9	175	1.0	27.2	81.8

## Appendix Table 2.

Sample ID	mbsf	SiO2	Sc	V	Cr	Со	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Υ	Zr	Nb	Мо	Rh	Pd	Ag	Cd	In	Sn	Sb
Site 442		wt%	ppm																						
442A, 31R-1, 75-78	285.75	50.46	12.84	242.9	200.2	35.01	58.08	65.57	78.41	18.36	0.70	0.69	5.01	151.5	21.00	60.51	1.13	0.25	0.01	0.06	0.15	0.19	0.05	0.97	0.09
442A, 32R-2, 86-91	290.86	50.89	4.27	206.1	220.7	43.28	105.20	69.31	68.37	16.27	0.58	0.16	3.16	145.1	15.84	52.37	0.98	0.17	0.00	0.02	n.d.	0.20	0.05	1.03	0.06
442A, 34R-1, 72-79	304.72	51.13	15.31	212.4	184.4	28.48	40.49	61.02	54.14	16.52	0.71	0.53	15.42	143.5	20.85	54.02	0.99	0.16	0.01	0.06	n.d.	0.07	0.05	0.64	n.d.
442B, 3R-3, 40-46	289.90	50.57	17.21	235.6	167.8	37.64	49.90	60.07	78.28	18.61	1.00	1.37	7.32	155.8	24.60	62.46	1.21	0.21	0.01	0.08	0.09	0.12	0.06	0.89	0.17
442B, 5R-2, 56-64	307.56	50.85	3.13	225.9	202.8	47.82	210.32	82.24	67.23	17.77	1.00	0.72	1.53	152.3	16.74	59.28	1.10	0.37	0.01	0.08	n.d.	0.17	0.06	0.58	n.d.
442B, 6R-2, 32-36	316.82	50.54	15.67	223.0	204.8	32.32	66.65	72.61	71.85	17.49	0.88	0.14	3.83	151.0	21.22	57.96	1.06	0.16	0.01	0.04	n.d.	0.19	0.05	0.83	n.d.
442B, 11R-2, 49-55	364.49	49.52	32.82	279.9	160.1	29.31	61.06	55.05	88.78	20.31	0.70	12.86	4.96	150.7	33.81	79.87	1.62	0.23	0.01	0.06	n.d.	0.11	0.06	1.00	0.76
442B, 12R-1, 93-99	372.93	49.45	35.70	303.7	167.7	36.88	66.08	62.60	95.97	21.09	0.71	16.79	6.92	161.7	35.25	83.64	1.72	0.28	0.02	0.06	n.d.	0.12	0.07	1.10	0.93
Site 443																									
443, 49R-3, 123-128	457.73	50.41	12.10	247.2	205.0	43.81	63.96	82.26	74.42	18.20	0.73	22.93	1.51	126.7	24.67	69.58	2.77	0.73	0.02	0.08	n.d.	0.11	0.06	1.02	n.d.
443, 52R-1, 0-5	477.50	50.43	27.39	244.4	208.5	45.10	69.17	84.17	75.62	18.69	0.77	7.50	2.17	137.8	29.24	73.10	2.75	0.67	0.02	0.06	n.d.	0.17	0.06	1.00	n.d.
443, 53R-2, 114-122	484.64	50.11	17.18	229.7	225.8	47.27	104.54	71.01	60.91	17.24	0.93	0.19	3.39	144.0	24.48	62.33	1.70	0.19	0.02	0.02	n.d.	0.10	0.06	0.59	n.d.
443, 55R-1, 83-89	501.83	49.07	30.58	280.6	196.5	42.40	86.33	51.48	83.11	17.63	0.79	0.42	5.30	144.6	33.53	79.53	2.62	0.23	0.01	0.10	n.d.	0.17	0.06	1.01	n.d.
443, 58R-4, 28-35	524.78	51.19	4.96	270.6	204.4	48.10	143.90	54.82	77.58	18.42	0.61	0.26	3.29	124.7	21.67	79.18	2.68	0.41	0.02	0.08	0.12	0.09	0.07	0.93	n.d.
443, 59R-2, 91-97	531.91	49.51	32.75	203.5	242.2	43.81	125.63	66.68	54.04	16.25	0.64	0.18	1.78	125.1	23.69	55.05	1.07	0.18	0.01	0.05	n.d.	0.10	0.05	0.69	n.d.
443, 60R-2, 104-110	541.54	49.69	4.77	206.4	246.5	44.83	123.66	77.78	57.16	16.56	0.78	0.20	1.08	112.4	18.79	53.58	1.09	0.21	0.01	0.05	n.d.	0.14	0.05	0.73	n.d.
443, 61R-3, 36-42	551.86	49.79	6.18	198.6	243.5	43.65	136.62	69.74	61.24	16.45	0.97	0.61	4.11	141.8	21.30	53.31	1.03	0.17	0.01	0.03	n.d.	0.10	0.05	0.72	n.d.
Site 444																									
444A, 20R-1, 74-79	244.24	50.40	17.95	264.8	90.21	29.65	37.14	53.95	63.20	19.98	0.96	1.28	12.38	317.5	28.63	128.2	23.59	2.08	0.01	0.14	0.13	0.14	0.06	1.38	0.06
444A, 20R-2, 4-10	245.04	48.78	1.92	194.7	183.5	41.30	198.91	34.33	50.29	17.42	0.68	0.98	12.88	213.7	19.14	91.25	16.75	1.50	0.02	0.10	0.10	0.12	0.04	1.00	n.d.
444A, 24R-1, 89-93	279.39	49.76	28.76	233.1	182.2	37.40	64.03	50.89	61.71	17.53	0.79	2.61	3.75	121.3	28.72	63.34	4.84	0.81	0.01	0.05	0.10	0.12	0.06	0.96	n.d.
444A, 27R-5,71-77	307.21	49.06	27.08	212.9	223.5	41.12	111.98	61.46	66.31	17.02	0.80	0.83	3.50	126.5	28.31	79.12	4.66	0.42	0.01	0.06	n.d.	0.16	0.05	0.96	n.d.
Site 808	400000	40.40	4 = 00				4000=	75.00						4000		-0									
808, 106R-1, 113- 118	1300.23	49.13	15.88	191.6	209.0	54.67	136.97	75.96	55.38	16.04	0.74	6.88	0.55	160.9	20.45	73.55	1.25	0.39	0.01	0.09	0.18	0.12	0.05	0.93	n.d.
808, 106R-2, 2-8	1300.62	47.84	31.66	194.7	213.9	45.09	127.87	78.95	52.18	16.61	0.81	0.28	0.83	164.3	25.27	74.99	1.25	0.31	n.d.	0.03	n.d.	0.13	0.06	0.96	n.d.
808, 107R-1, 21-28	1308.51	48.89	2.81	224.9	225.9	39.29	70.36	75.14	58.97	16.26	0.75	0.36	2.27	148.4	18.81	70.67	3.34	0.29	n.d.	0.06	0.10	0.11	0.06	0.79	n.d.
Sample ID	Te	Cs	Ва	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Но	Er	Tm	Yb	Lu	Hf	Та	W	TI	Pb	Bi	Th	U
Site 442	Te ppm																								
Site 442 442A, 31R-1, 75-78	ppm n.d.	0.25	14.89	3.43	10.51	1.76	9.46	3.09	1.13	4.15	0.72	4.72	0.99	2.90	0.41	2.61	0.39	2.22	0.07	0.02	0.02	1.68	0.01	0.14	0.13
Site 442 442A, 31R-1, 75-78 442A, 32R-2, 86-91	ppm n.d. n.d.	0.25 0.13	14.89 13.86	3.43 2.98	10.51 9.07	1.76 1.55	9.46 8.27	3.09 2.62	1.13 1.01	4.15 3.50	0.72 0.60	4.72 3.99	0.99 0.84	2.90 2.39	0.41 0.34	2.61 2.13	0.39 0.32	2.22 1.90	0.07 0.06	0.02 n.d.	0.02 0.02	1.68 1.75	0.01 0.02	0.14 0.10	0.13 0.34
Site 442 442A, 31R-1, 75-78 442A, 32R-2, 86-91 442A, 34R-1, 72-79	ppm n.d. n.d. n.d.	0.25 0.13 0.83	14.89 13.86 13.60	3.43 2.98 3.09	10.51 9.07 9.47	1.76 1.55 1.60	9.46 8.27 8.54	3.09 2.62 2.72	1.13 1.01 1.03	4.15 3.50 3.71	0.72 0.60 0.63	4.72 3.99 4.24	0.99 0.84 0.89	2.90 2.39 2.61	0.41 0.34 0.37	2.61 2.13 2.42	0.39 0.32 0.36	2.22 1.90 2.01	0.07 0.06 0.06	0.02 n.d. 0.05	0.02 0.02 0.02	1.68 1.75 0.84	0.01 0.02 0.01	0.14 0.10 0.16	0.13 0.34 0.32
Site 442 442A, 31R-1, 75-78 442A, 32R-2, 86-91 442A, 34R-1, 72-79 442B, 3R-3, 40-46	ppm n.d. n.d. n.d. n.d.	0.25 0.13 0.83 0.17	14.89 13.86 13.60 17.59	3.43 2.98 3.09 3.86	10.51 9.07 9.47 11.38	1.76 1.55 1.60 1.92	9.46 8.27 8.54 10.02	3.09 2.62 2.72 3.25	1.13 1.01 1.03 1.21	4.15 3.50 3.71 4.41	0.72 0.60 0.63 0.76	4.72 3.99 4.24 5.03	0.99 0.84 0.89 1.06	2.90 2.39 2.61 3.11	0.41 0.34 0.37 0.45	2.61 2.13 2.42 2.84	0.39 0.32 0.36 0.42	2.22 1.90 2.01 2.39	0.07 0.06 0.06 0.08	0.02 n.d. 0.05 0.03	0.02 0.02 0.02 0.20	1.68 1.75 0.84 1.15	0.01 0.02 0.01 0.01	0.14 0.10 0.16 0.18	0.13 0.34 0.32 0.49
Site 442 442A, 31R-1, 75-78 442A, 32R-2, 86-91 442A, 34R-1, 72-79 442B, 3R-3, 40-46 442B, 5R-2, 56-64	ppm n.d. n.d. n.d. n.d. n.d.	0.25 0.13 0.83 0.17 0.02	14.89 13.86 13.60 17.59 16.27	3.43 2.98 3.09 3.86 3.39	10.51 9.07 9.47 11.38 10.47	1.76 1.55 1.60 1.92 1.73	9.46 8.27 8.54 10.02 9.03	3.09 2.62 2.72 3.25 2.94	1.13 1.01 1.03 1.21 1.10	4.15 3.50 3.71 4.41 3.86	0.72 0.60 0.63 0.76 0.66	4.72 3.99 4.24 5.03 4.33	0.99 0.84 0.89 1.06 0.92	2.90 2.39 2.61 3.11 2.65	0.41 0.34 0.37 0.45 0.38	2.61 2.13 2.42 2.84 2.33	0.39 0.32 0.36 0.42 0.35	2.22 1.90 2.01 2.39 2.17	0.07 0.06 0.06 0.08 0.07	0.02 n.d. 0.05 0.03 0.08	0.02 0.02 0.02 0.20 0.14	1.68 1.75 0.84 1.15 0.98	0.01 0.02 0.01 0.01 0.01	0.14 0.10 0.16 0.18 0.10	0.13 0.34 0.32 0.49 0.36
Site 442 442A, 31R-1, 75-78 442A, 32R-2, 86-91 442A, 34R-1, 72-79 442B, 3R-3, 40-46 442B, 5R-2, 56-64 442B, 6R-2, 32-36	ppm n.d. n.d. n.d. n.d. n.d. n.d.	0.25 0.13 0.83 0.17 0.02 0.18	14.89 13.86 13.60 17.59 16.27 11.31	3.43 2.98 3.09 3.86 3.39 3.38	10.51 9.07 9.47 11.38 10.47 10.10	1.76 1.55 1.60 1.92 1.73 1.75	9.46 8.27 8.54 10.02 9.03 9.11	3.09 2.62 2.72 3.25 2.94 3.03	1.13 1.01 1.03 1.21 1.10	4.15 3.50 3.71 4.41 3.86 3.86	0.72 0.60 0.63 0.76 0.66 0.68	4.72 3.99 4.24 5.03 4.33 4.52	0.99 0.84 0.89 1.06 0.92 0.94	2.90 2.39 2.61 3.11 2.65 2.78	0.41 0.34 0.37 0.45 0.38 0.40	2.61 2.13 2.42 2.84 2.33 2.53	0.39 0.32 0.36 0.42 0.35 0.38	2.22 1.90 2.01 2.39 2.17 2.14	0.07 0.06 0.06 0.08 0.07 0.07	0.02 n.d. 0.05 0.03 0.08 0.42	0.02 0.02 0.02 0.20 0.14 0.02	1.68 1.75 0.84 1.15 0.98 1.27	0.01 0.02 0.01 0.01 0.01 0.02	0.14 0.10 0.16 0.18 0.10 0.16	0.13 0.34 0.32 0.49 0.36 0.46
Site 442 442A, 31R-1, 75-78 442A, 32R-2, 86-91 442A, 34R-1, 72-79 442B, 3R-3, 40-46 442B, 5R-2, 56-64 442B, 6R-2, 32-36 442B, 11R-2, 49-55	ppm n.d. n.d. n.d. n.d. n.d. n.d.	0.25 0.13 0.83 0.17 0.02 0.18 0.08	14.89 13.86 13.60 17.59 16.27 11.31 13.87	3.43 2.98 3.09 3.86 3.39 3.38 4.26	10.51 9.07 9.47 11.38 10.47 10.10	1.76 1.55 1.60 1.92 1.73 1.75 2.27	9.46 8.27 8.54 10.02 9.03 9.11 11.92	3.09 2.62 2.72 3.25 2.94 3.03 4.00	1.13 1.01 1.03 1.21 1.10 1.11	4.15 3.50 3.71 4.41 3.86 3.86 5.25	0.72 0.60 0.63 0.76 0.66 0.68	4.72 3.99 4.24 5.03 4.33 4.52 6.23	0.99 0.84 0.89 1.06 0.92 0.94 1.31	2.90 2.39 2.61 3.11 2.65 2.78 3.90	0.41 0.34 0.37 0.45 0.38 0.40 0.57	2.61 2.13 2.42 2.84 2.33 2.53 3.64	0.39 0.32 0.36 0.42 0.35 0.38 0.55	2.22 1.90 2.01 2.39 2.17 2.14 2.96	0.07 0.06 0.06 0.08 0.07 0.07	0.02 n.d. 0.05 0.03 0.08 0.42 0.05	0.02 0.02 0.02 0.20 0.14 0.02 0.01	1.68 1.75 0.84 1.15 0.98 1.27	0.01 0.02 0.01 0.01 0.01 0.02 0.01	0.14 0.10 0.16 0.18 0.10 0.16 0.23	0.13 0.34 0.32 0.49 0.36 0.46 0.41
Site 442 442A, 31R-1, 75-78 442A, 32R-2, 86-91 442A, 34R-1, 72-79 442B, 3R-3, 40-46 442B, 5R-2, 56-64 442B, 6R-2, 32-36 442B, 11R-2, 49-55 442B, 12R-1, 93-99	ppm n.d. n.d. n.d. n.d. n.d. n.d.	0.25 0.13 0.83 0.17 0.02 0.18	14.89 13.86 13.60 17.59 16.27 11.31	3.43 2.98 3.09 3.86 3.39 3.38	10.51 9.07 9.47 11.38 10.47 10.10	1.76 1.55 1.60 1.92 1.73 1.75	9.46 8.27 8.54 10.02 9.03 9.11	3.09 2.62 2.72 3.25 2.94 3.03	1.13 1.01 1.03 1.21 1.10	4.15 3.50 3.71 4.41 3.86 3.86	0.72 0.60 0.63 0.76 0.66 0.68	4.72 3.99 4.24 5.03 4.33 4.52	0.99 0.84 0.89 1.06 0.92 0.94	2.90 2.39 2.61 3.11 2.65 2.78	0.41 0.34 0.37 0.45 0.38 0.40	2.61 2.13 2.42 2.84 2.33 2.53	0.39 0.32 0.36 0.42 0.35 0.38	2.22 1.90 2.01 2.39 2.17 2.14	0.07 0.06 0.06 0.08 0.07	0.02 n.d. 0.05 0.03 0.08 0.42	0.02 0.02 0.02 0.20 0.14 0.02	1.68 1.75 0.84 1.15 0.98 1.27	0.01 0.02 0.01 0.01 0.01 0.02	0.14 0.10 0.16 0.18 0.10 0.16	0.13 0.34 0.32 0.49 0.36 0.46
Site 442 442A, 31R-1, 75-78 442A, 32R-2, 86-91 442A, 34R-1, 72-79 442B, 3R-3, 40-46 442B, 5R-2, 56-64 442B, 6R-2, 32-36 442B, 11R-2, 49-55 442B, 12R-1, 93-99 Site 443	ppm n.d. n.d. n.d. n.d. n.d. n.d.	0.25 0.13 0.83 0.17 0.02 0.18 0.08 0.13	14.89 13.86 13.60 17.59 16.27 11.31 13.87 14.40	3.43 2.98 3.09 3.86 3.39 3.38 4.26 4.59	10.51 9.07 9.47 11.38 10.47 10.10 13.08 13.62	1.76 1.55 1.60 1.92 1.73 1.75 2.27	9.46 8.27 8.54 10.02 9.03 9.11 11.92	3.09 2.62 2.72 3.25 2.94 3.03 4.00 4.15	1.13 1.01 1.03 1.21 1.10 1.11 1.47 1.50	4.15 3.50 3.71 4.41 3.86 3.86 5.25 5.52	0.72 0.60 0.63 0.76 0.66 0.68 0.92 0.96	4.72 3.99 4.24 5.03 4.33 4.52 6.23 6.54	0.99 0.84 0.89 1.06 0.92 0.94 1.31 1.38	2.90 2.39 2.61 3.11 2.65 2.78 3.90 4.08	0.41 0.34 0.37 0.45 0.38 0.40 0.57 0.59	2.61 2.13 2.42 2.84 2.33 2.53 3.64 3.83	0.39 0.32 0.36 0.42 0.35 0.38 0.55 0.58	2.22 1.90 2.01 2.39 2.17 2.14 2.96 3.07	0.07 0.06 0.06 0.08 0.07 0.07 0.10 0.11	0.02 n.d. 0.05 0.03 0.08 0.42 0.05 0.06	0.02 0.02 0.02 0.20 0.14 0.02 0.01 0.03	1.68 1.75 0.84 1.15 0.98 1.27 1.24 1.28	0.01 0.02 0.01 0.01 0.01 0.02 0.01 0.01	0.14 0.10 0.16 0.18 0.10 0.16 0.23 0.24	0.13 0.34 0.32 0.49 0.36 0.46 0.41 0.51
Site 442 442A, 31R-1, 75-78 442A, 32R-2, 86-91 442A, 34R-1, 72-79 442B, 3R-3, 40-46 442B, 5R-2, 56-64 442B, 6R-2, 32-36 442B, 11R-2, 49-55 442B, 12R-1, 93-99 Site 443 443, 49R-3, 123-128	ppm n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d	0.25 0.13 0.83 0.17 0.02 0.18 0.08 0.13	14.89 13.86 13.60 17.59 16.27 11.31 13.87 14.40	3.43 2.98 3.09 3.86 3.39 3.38 4.26 4.59	10.51 9.07 9.47 11.38 10.47 10.10 13.08 13.62	1.76 1.55 1.60 1.92 1.73 1.75 2.27 2.35	9.46 8.27 8.54 10.02 9.03 9.11 11.92 12.43	3.09 2.62 2.72 3.25 2.94 3.03 4.00 4.15	1.13 1.01 1.03 1.21 1.10 1.11 1.47 1.50	4.15 3.50 3.71 4.41 3.86 3.86 5.25 5.52	0.72 0.60 0.63 0.76 0.66 0.68 0.92 0.96	4.72 3.99 4.24 5.03 4.33 4.52 6.23 6.54 5.25	0.99 0.84 0.89 1.06 0.92 0.94 1.31 1.38	2.90 2.39 2.61 3.11 2.65 2.78 3.90 4.08	0.41 0.34 0.37 0.45 0.38 0.40 0.57 0.59	2.61 2.13 2.42 2.84 2.33 2.53 3.64 3.83	0.39 0.32 0.36 0.42 0.35 0.38 0.55 0.58	2.22 1.90 2.01 2.39 2.17 2.14 2.96 3.07	0.07 0.06 0.06 0.08 0.07 0.07 0.10 0.11	0.02 n.d. 0.05 0.03 0.08 0.42 0.05 0.06	0.02 0.02 0.02 0.20 0.14 0.02 0.01 0.03	1.68 1.75 0.84 1.15 0.98 1.27 1.24 1.28	0.01 0.02 0.01 0.01 0.01 0.02 0.01 0.01	0.14 0.10 0.16 0.18 0.10 0.16 0.23 0.24	0.13 0.34 0.32 0.49 0.36 0.46 0.41 0.51
Site 442 442A, 31R-1, 75-78 442A, 32R-2, 86-91 442A, 34R-1, 72-79 442B, 3R-3, 40-46 442B, 5R-2, 56-64 442B, 6R-2, 32-36 442B, 11R-2, 49-55 442B, 12R-1, 93-99 Site 443 443, 49R-3, 123-128 443, 52R-1, 0-5	ppm n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d	0.25 0.13 0.83 0.17 0.02 0.18 0.08 0.13	14.89 13.86 13.60 17.59 16.27 11.31 13.87 14.40	3.43 2.98 3.09 3.86 3.39 3.38 4.26 4.59	10.51 9.07 9.47 11.38 10.47 10.10 13.08 13.62 13.24 13.38	1.76 1.55 1.60 1.92 1.73 1.75 2.27 2.35	9.46 8.27 8.54 10.02 9.03 9.11 11.92 12.43	3.09 2.62 2.72 3.25 2.94 3.03 4.00 4.15	1.13 1.01 1.03 1.21 1.10 1.11 1.47 1.50	4.15 3.50 3.71 4.41 3.86 3.86 5.25 5.52 4.78 4.93	0.72 0.60 0.63 0.76 0.66 0.68 0.92 0.96	4.72 3.99 4.24 5.03 4.33 4.52 6.23 6.54 5.25 5.60	0.99 0.84 0.89 1.06 0.92 0.94 1.31 1.38	2.90 2.39 2.61 3.11 2.65 2.78 3.90 4.08	0.41 0.34 0.37 0.45 0.38 0.40 0.57 0.59	2.61 2.13 2.42 2.84 2.33 2.53 3.64 3.83	0.39 0.32 0.36 0.42 0.35 0.38 0.55 0.58	2.22 1.90 2.01 2.39 2.17 2.14 2.96 3.07	0.07 0.06 0.06 0.08 0.07 0.07 0.10 0.11	0.02 n.d. 0.05 0.03 0.08 0.42 0.05 0.06	0.02 0.02 0.02 0.20 0.14 0.02 0.01 0.03	1.68 1.75 0.84 1.15 0.98 1.27 1.24 1.28	0.01 0.02 0.01 0.01 0.01 0.02 0.01 0.02	0.14 0.10 0.16 0.18 0.10 0.16 0.23 0.24	0.13 0.34 0.32 0.49 0.36 0.46 0.41 0.51
Site 442 442A, 31R-1, 75-78 442A, 32R-2, 86-91 442A, 34R-1, 72-79 442B, 3R-3, 40-46 442B, 5R-2, 56-64 442B, 6R-2, 32-36 442B, 11R-2, 49-55 442B, 12R-1, 93-99 Site 443 443, 49R-3, 123-128 443, 52R-1, 0-5 443, 53R-2, 114-122	ppm n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d	0.25 0.13 0.83 0.17 0.02 0.18 0.08 0.13	14.89 13.86 13.60 17.59 16.27 11.31 13.87 14.40	3.43 2.98 3.09 3.86 3.39 3.38 4.26 4.59	10.51 9.07 9.47 11.38 10.47 10.10 13.08 13.62 13.24 13.38 10.54	1.76 1.55 1.60 1.92 1.73 1.75 2.27 2.35	9.46 8.27 8.54 10.02 9.03 9.11 11.92 12.43 11.13 11.47 9.32	3.09 2.62 2.72 3.25 2.94 3.03 4.00 4.15 3.54 3.70 3.08	1.13 1.01 1.03 1.21 1.10 1.11 1.47 1.50	4.15 3.50 3.71 4.41 3.86 3.86 5.25 5.52 4.78 4.93 4.19	0.72 0.60 0.63 0.76 0.66 0.68 0.92 0.96	4.72 3.99 4.24 5.03 4.33 4.52 6.23 6.54 5.25 5.60 4.90	0.99 0.84 0.89 1.06 0.92 0.94 1.31 1.38	2.90 2.39 2.61 3.11 2.65 2.78 3.90 4.08 3.19 3.48 3.04	0.41 0.34 0.37 0.45 0.38 0.40 0.57 0.59	2.61 2.13 2.42 2.84 2.33 2.53 3.64 3.83	0.39 0.32 0.36 0.42 0.35 0.35 0.55 0.58	2.22 1.90 2.01 2.39 2.17 2.14 2.96 3.07 2.67 2.71 2.32	0.07 0.06 0.06 0.08 0.07 0.10 0.11	0.02 n.d. 0.05 0.03 0.08 0.42 0.05 0.06	0.02 0.02 0.02 0.20 0.14 0.02 0.01 0.03	1.68 1.75 0.84 1.15 0.98 1.27 1.24 1.28	0.01 0.02 0.01 0.01 0.01 0.02 0.01 0.02	0.14 0.10 0.16 0.18 0.10 0.16 0.23 0.24 0.21 0.27 0.18	0.13 0.34 0.32 0.49 0.36 0.46 0.41 0.51
Site 442 442A, 31R-1, 75-78 442A, 32R-2, 86-91 442A, 34R-1, 72-79 442B, 3R-3, 40-46 442B, 5R-2, 56-64 442B, 6R-2, 32-36 442B, 11R-2, 49-55 442B, 12R-1, 93-99 Site 443 443, 49R-3, 123-128 443, 52R-1, 0-5 443, 53R-2, 114-122	ppm n.d. n.d. n.d. n.d. n.d. n.d. n.d. o.d. n.d. o.d. o	0.25 0.13 0.83 0.17 0.02 0.18 0.08 0.13	14.89 13.86 13.60 17.59 16.27 11.31 13.87 14.40 15.03 16.11 14.92 13.99	3.43 2.98 3.09 3.86 3.39 3.38 4.26 4.59 4.62 4.65 3.54 5.30	10.51 9.07 9.47 11.38 10.47 10.10 13.08 13.62 13.24 13.38 10.54 14.87	1.76 1.55 1.60 1.92 1.73 1.75 2.27 2.35 2.17 2.18 1.81 2.41	9.46 8.27 8.54 10.02 9.03 9.11 11.92 12.43 11.13 11.47 9.32 12.53	3.09 2.62 2.72 3.25 2.94 3.03 4.00 4.15 3.54 3.70 3.08 4.03	1.13 1.01 1.03 1.21 1.10 1.11 1.47 1.50 1.32 1.35 1.17	4.15 3.50 3.71 4.41 3.86 5.25 5.52 4.78 4.93 4.19 5.41	0.72 0.60 0.63 0.76 0.66 0.68 0.92 0.96	4.72 3.99 4.24 5.03 4.33 4.52 6.23 6.54 5.25 5.60 4.90 6.26	0.99 0.84 0.89 1.06 0.92 0.94 1.31 1.38	2.90 2.39 2.61 3.11 2.65 2.78 3.90 4.08 3.19 3.48 3.04 3.95	0.41 0.34 0.37 0.45 0.38 0.40 0.57 0.59	2.61 2.13 2.42 2.84 2.33 2.53 3.64 3.83 2.82 2.75 3.70	0.39 0.32 0.36 0.42 0.35 0.38 0.55 0.58	2.22 1.90 2.01 2.39 2.17 2.14 2.96 3.07 2.67 2.71 2.32 2.96	0.07 0.06 0.06 0.08 0.07 0.10 0.11	0.02 n.d. 0.05 0.03 0.08 0.42 0.05 0.06	0.02 0.02 0.02 0.20 0.14 0.02 0.01 0.03 0.17 0.13 0.02 0.03	1.68 1.75 0.84 1.15 0.98 1.27 1.24 1.28	0.01 0.02 0.01 0.01 0.01 0.02 0.01 0.01	0.14 0.10 0.16 0.18 0.10 0.16 0.23 0.24 0.21 0.27 0.18 0.44	0.13 0.34 0.32 0.49 0.36 0.46 0.41 0.51
Site 442 442A, 31R-1, 75-78 442A, 32R-2, 86-91 442A, 34R-1, 72-79 442B, 3R-3, 40-46 442B, 5R-2, 56-64 442B, 6R-2, 32-36 442B, 11R-2, 49-55 442B, 12R-1, 93-99 Site 443 443, 49R-3, 123-128 443, 52R-1, 0-5 443, 53R-2, 114-122 443, 55R-1, 83-89 443, 58R-4, 28-35	ppm n.d. n.d. n.d. n.d. n.d. n.d. n.d. o.d. n.d. 0.05 0.05 0.06	0.25 0.13 0.83 0.17 0.02 0.18 0.08 0.13 0.01 0.04 0.12 0.24 0.06	14.89 13.86 13.60 17.59 16.27 11.31 13.87 14.40 15.03 16.11 14.92 13.99 22.85	3.43 2.98 3.09 3.86 3.39 4.26 4.59 4.62 4.65 3.54 5.30 4.96	10.51 9.07 9.47 11.38 10.47 10.10 13.08 13.62 13.24 13.38 10.54 14.87 14.14	1.76 1.55 1.60 1.92 1.73 1.75 2.27 2.35 2.17 2.18 1.81 2.41 2.28	9.46 8.27 8.54 10.02 9.03 9.11 11.92 12.43 11.13 11.47 9.32 12.53 11.77	3.09 2.62 2.72 3.25 2.94 3.03 4.00 4.15 3.54 3.70 3.08 4.03 3.72	1.13 1.01 1.03 1.21 1.10 1.11 1.47 1.50 1.32 1.35 1.17 1.41	4.15 3.50 3.71 4.41 3.86 3.86 5.25 5.52 4.78 4.93 4.19 5.41 4.90	0.72 0.60 0.63 0.76 0.66 0.68 0.92 0.96	4.72 3.99 4.24 5.03 4.33 4.52 6.23 6.54 5.25 5.60 4.90 6.26 5.45	0.99 0.84 0.89 1.06 0.92 0.94 1.31 1.38 1.12 1.19 1.03 1.33 1.14	2.90 2.39 2.61 3.11 2.65 2.78 3.90 4.08 3.19 3.48 3.04 3.95 3.22	0.41 0.34 0.37 0.45 0.38 0.40 0.57 0.59 0.46 0.49 0.44 0.58	2.61 2.13 2.42 2.84 2.33 2.53 3.64 3.83 2.82 3.22 2.75 3.70 2.88	0.39 0.32 0.36 0.42 0.35 0.38 0.55 0.58 0.42 0.44 0.41 0.55	2.22 1.90 2.01 2.39 2.17 2.14 2.96 3.07 2.67 2.71 2.32 2.96 2.97	0.07 0.06 0.06 0.08 0.07 0.10 0.11	0.02 n.d. 0.05 0.03 0.08 0.42 0.05 0.06	0.02 0.02 0.02 0.20 0.14 0.02 0.01 0.03 0.17 0.13 0.02 0.03	1.68 1.75 0.84 1.15 0.98 1.27 1.24 1.28 1.21 1.68 0.82 0.95 0.67	0.01 0.02 0.01 0.01 0.01 0.02 0.01 0.01	0.14 0.10 0.16 0.18 0.10 0.16 0.23 0.24 0.21 0.27 0.18 0.44	0.13 0.34 0.32 0.49 0.36 0.46 0.41 0.51
Site 442 442A, 31R-1, 75-78 442A, 32R-2, 86-91 442A, 34R-1, 72-79 442B, 3R-3, 40-46 442B, 5R-2, 56-64 442B, 6R-2, 32-36 442B, 11R-2, 49-55 442B, 12R-1, 93-99 Site 443 443, 49R-3, 123-128 443, 52R-1, 0-5 443, 53R-2, 114-122 443, 55R-1, 83-89 443, 55R-1, 28-35 443, 59R-2, 91-97	ppm n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d	0.25 0.13 0.83 0.17 0.02 0.18 0.08 0.13 0.01 0.04 0.12 0.24 0.06 0.11	14.89 13.86 13.60 17.59 16.27 11.31 13.87 14.40 15.03 16.11 14.92 13.99 22.85 6.81	3.43 2.98 3.09 3.86 3.39 3.38 4.26 4.59 4.62 4.65 3.54 5.30 4.96 2.76	10.51 9.07 9.47 11.38 10.47 10.10 13.08 13.62 13.24 13.38 10.54 14.87 14.14 8.92	1.76 1.55 1.60 1.92 1.73 1.75 2.27 2.35 2.17 2.18 1.81 2.41 2.28 1.56	9.46 8.27 8.54 10.02 9.03 9.11 11.92 12.43 11.13 11.47 9.32 12.53 11.77 8.36	3.09 2.62 2.72 3.25 2.94 3.03 4.00 4.15 3.54 3.70 3.08 4.03 3.72 2.79	1.13 1.01 1.03 1.21 1.10 1.11 1.47 1.50 1.32 1.35 1.17 1.41 1.32	4.15 3.50 3.71 4.41 3.86 3.86 5.25 5.52 4.78 4.93 4.19 5.41 4.90 3.81	0.72 0.60 0.63 0.76 0.66 0.68 0.92 0.96 0.81 0.85 0.73 0.95 0.84 0.68	4.72 3.99 4.24 5.03 4.33 4.52 6.23 6.54 5.25 5.60 4.90 6.26 5.45 4.42	0.99 0.84 0.89 1.06 0.92 0.94 1.31 1.38 1.12 1.19 1.03 1.33 1.14 0.95	2.90 2.39 2.61 3.11 2.65 2.78 3.90 4.08 3.19 3.48 3.04 3.95 3.22 2.79	0.41 0.34 0.37 0.45 0.38 0.40 0.57 0.59 0.46 0.49 0.44 0.58	2.61 2.13 2.42 2.84 2.33 2.53 3.64 3.83 2.82 3.22 2.75 3.70 2.88 2.57	0.39 0.32 0.36 0.42 0.35 0.38 0.55 0.58 0.42 0.41 0.55 0.42 0.38	2.22 1.90 2.01 2.39 2.17 2.14 2.96 3.07 2.67 2.71 2.32 2.96 2.97 2.05	0.07 0.06 0.06 0.08 0.07 0.07 0.10 0.11 0.17 0.17 0.10 0.16 0.17	0.02 n.d. 0.05 0.03 0.08 0.42 0.05 0.06 0.04 0.04 0.02 0.04 0.03 0.00	0.02 0.02 0.02 0.20 0.14 0.02 0.01 0.03 0.17 0.13 0.02 0.03 0.05 0.04	1.68 1.75 0.84 1.15 0.98 1.27 1.24 1.28 1.21 1.68 0.82 0.95 0.67 0.47	0.01 0.02 0.01 0.01 0.02 0.01 0.01 0.02 0.01 0.01	0.14 0.10 0.16 0.18 0.10 0.23 0.24 0.21 0.27 0.18 0.44 0.23	0.13 0.34 0.32 0.49 0.36 0.46 0.41 0.51 0.09 0.13 0.07 0.17 0.20 0.05
Site 442 442A, 31R-1, 75-78 442A, 32R-2, 86-91 442A, 34R-1, 72-79 442B, 3R-3, 40-46 442B, 5R-2, 56-64 442B, 6R-2, 32-36 442B, 11R-2, 49-55 442B, 12R-1, 93-99 Site 443 443, 49R-3, 123-128 443, 52R-1, 0-5 443, 53R-2, 114-122 443, 55R-1, 83-89 443, 58R-4, 28-35 443, 59R-2, 91-97 443, 60R-2, 104-110	ppm n.d. n.d. n.d. n.d. n.d. n.d. n.d. 0.05 0.05 0.06 0.07 n.d. n.d. n.d.	0.25 0.13 0.83 0.17 0.02 0.18 0.08 0.13 0.01 0.04 0.12 0.24 0.06 0.11	14.89 13.86 13.60 17.59 16.27 11.31 13.87 14.40 15.03 16.11 14.92 13.99 22.85 6.81 7.43	3.43 2.98 3.09 3.86 3.39 3.38 4.26 4.59 4.62 4.65 3.54 5.30 4.96 2.76 2.74	10.51 9.07 9.47 11.38 10.47 10.10 13.08 13.62 13.24 13.38 10.54 14.87 14.14 8.92 9.02	1.76 1.55 1.60 1.92 1.73 1.75 2.27 2.35 2.17 2.18 1.81 2.41 2.28 1.56 1.59	9.46 8.27 8.54 10.02 9.03 9.11 11.92 12.43 11.13 11.47 9.32 12.53 11.77 8.36 8.46	3.09 2.62 2.72 3.25 2.94 3.03 4.00 4.15 3.54 3.70 3.08 4.03 3.72 2.79 2.89	1.13 1.01 1.03 1.21 1.10 1.11 1.47 1.50 1.32 1.35 1.17 1.41 1.32 1.11	4.15 3.50 3.71 4.41 3.86 3.86 5.25 5.52 4.78 4.93 4.19 5.41 4.90 3.81 3.86	0.72 0.60 0.63 0.76 0.66 0.68 0.92 0.96 0.81 0.85 0.73 0.95 0.84 0.68	4.72 3.99 4.24 5.03 4.33 4.52 6.23 6.54 5.25 5.60 4.90 6.26 5.45 4.42 4.32	0.99 0.84 0.89 1.06 0.92 0.94 1.31 1.38 1.12 1.19 1.03 1.33 1.14 0.95 0.91	2.90 2.39 2.61 3.11 2.65 2.78 3.90 4.08 3.19 3.48 3.04 3.95 3.22 2.79 2.61	0.41 0.34 0.37 0.45 0.38 0.40 0.57 0.59 0.46 0.49 0.44 0.58 0.46 0.40 0.36	2.61 2.13 2.42 2.84 2.33 2.53 3.64 3.83 2.82 2.75 3.70 2.88 2.57 2.33	0.39 0.32 0.36 0.42 0.35 0.38 0.55 0.58 0.42 0.41 0.55 0.42 0.43	2.22 1.90 2.01 2.39 2.17 2.14 2.96 3.07 2.67 2.71 2.32 2.96 2.97 2.05 2.04	0.07 0.06 0.06 0.08 0.07 0.10 0.11 0.17 0.17 0.10 0.16 0.16 0.06	0.02 n.d. 0.05 0.03 0.08 0.42 0.05 0.06 0.04 0.04 0.02 0.04 0.03 0.00 0.00	0.02 0.02 0.02 0.20 0.14 0.02 0.01 0.03 0.17 0.13 0.02 0.03 0.05 0.04	1.68 1.75 0.84 1.15 0.98 1.27 1.24 1.28 1.21 1.68 0.82 0.95 0.67 0.47	0.01 0.02 0.01 0.01 0.02 0.01 0.01 0.02 0.01 0.01	0.14 0.10 0.16 0.18 0.10 0.16 0.23 0.24 0.21 0.27 0.18 0.44 0.23 0.15	0.13 0.34 0.32 0.49 0.36 0.46 0.41 0.51 0.09 0.13 0.07 0.17 0.20 0.05
Site 442 442A, 31R-1, 75-78 442A, 32R-2, 86-91 442A, 34R-1, 72-79 442B, 3R-3, 40-46 442B, 5R-2, 56-64 442B, 6R-2, 32-36 442B, 11R-2, 49-55 442B, 12R-1, 93-99 Site 443 443, 49R-3, 123-128 443, 52R-1, 0-5 443, 53R-2, 114-122 443, 55R-1, 83-89 443, 55R-1, 28-35 443, 59R-2, 91-97	ppm n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d	0.25 0.13 0.83 0.17 0.02 0.18 0.08 0.13 0.01 0.04 0.12 0.24 0.06 0.11	14.89 13.86 13.60 17.59 16.27 11.31 13.87 14.40 15.03 16.11 14.92 13.99 22.85 6.81	3.43 2.98 3.09 3.86 3.39 3.38 4.26 4.59 4.62 4.65 3.54 5.30 4.96 2.76	10.51 9.07 9.47 11.38 10.47 10.10 13.08 13.62 13.24 13.38 10.54 14.87 14.14 8.92	1.76 1.55 1.60 1.92 1.73 1.75 2.27 2.35 2.17 2.18 1.81 2.41 2.28 1.56	9.46 8.27 8.54 10.02 9.03 9.11 11.92 12.43 11.13 11.47 9.32 12.53 11.77 8.36	3.09 2.62 2.72 3.25 2.94 3.03 4.00 4.15 3.54 3.70 3.08 4.03 3.72 2.79	1.13 1.01 1.03 1.21 1.10 1.11 1.47 1.50 1.32 1.35 1.17 1.41 1.32	4.15 3.50 3.71 4.41 3.86 3.86 5.25 5.52 4.78 4.93 4.19 5.41 4.90 3.81	0.72 0.60 0.63 0.76 0.66 0.68 0.92 0.96 0.81 0.85 0.73 0.95 0.84 0.68	4.72 3.99 4.24 5.03 4.33 4.52 6.23 6.54 5.25 5.60 4.90 6.26 5.45 4.42	0.99 0.84 0.89 1.06 0.92 0.94 1.31 1.38 1.12 1.19 1.03 1.33 1.14 0.95	2.90 2.39 2.61 3.11 2.65 2.78 3.90 4.08 3.19 3.48 3.04 3.95 3.22 2.79	0.41 0.34 0.37 0.45 0.38 0.40 0.57 0.59 0.46 0.49 0.44 0.58	2.61 2.13 2.42 2.84 2.33 2.53 3.64 3.83 2.82 3.22 2.75 3.70 2.88 2.57	0.39 0.32 0.36 0.42 0.35 0.38 0.55 0.58 0.42 0.41 0.55 0.42 0.38	2.22 1.90 2.01 2.39 2.17 2.14 2.96 3.07 2.67 2.71 2.32 2.96 2.97 2.05	0.07 0.06 0.06 0.08 0.07 0.07 0.10 0.11 0.17 0.17 0.10 0.16 0.17	0.02 n.d. 0.05 0.03 0.08 0.42 0.05 0.06 0.04 0.04 0.02 0.04 0.03 0.00	0.02 0.02 0.02 0.20 0.14 0.02 0.01 0.03 0.17 0.13 0.02 0.03 0.05 0.04	1.68 1.75 0.84 1.15 0.98 1.27 1.24 1.28 1.21 1.68 0.82 0.95 0.67 0.47	0.01 0.02 0.01 0.01 0.02 0.01 0.01 0.02 0.01 0.01	0.14 0.10 0.16 0.18 0.10 0.23 0.24 0.21 0.27 0.18 0.44 0.23	0.13 0.34 0.32 0.49 0.36 0.46 0.41 0.51 0.09 0.13 0.07 0.17 0.20 0.05
Site 442 442A, 31R-1, 75-78 442A, 32R-2, 86-91 442A, 34R-1, 72-79 442B, 3R-3, 40-46 442B, 5R-2, 56-64 442B, 6R-2, 32-36 442B, 11R-2, 49-55 442B, 12R-1, 93-99 Site 443 443, 49R-3, 123-128 443, 52R-1, 0-5 443, 53R-2, 114-122 443, 55R-1, 83-89 443, 58R-4, 28-35 443, 59R-2, 91-97 443, 60R-2, 104-110	ppm n.d. n.d. n.d. n.d. n.d. n.d. n.d. 0.05 0.05 0.06 0.07 n.d. n.d. n.d.	0.25 0.13 0.83 0.17 0.02 0.18 0.08 0.13 0.01 0.04 0.12 0.24 0.06 0.11	14.89 13.86 13.60 17.59 16.27 11.31 13.87 14.40 15.03 16.11 14.92 13.99 22.85 6.81 7.43	3.43 2.98 3.09 3.86 3.39 3.38 4.26 4.59 4.62 4.65 3.54 5.30 4.96 2.76 2.74	10.51 9.07 9.47 11.38 10.47 10.10 13.08 13.62 13.24 13.38 10.54 14.87 14.14 8.92 9.02	1.76 1.55 1.60 1.92 1.73 1.75 2.27 2.35 2.17 2.18 1.81 2.41 2.28 1.56 1.59	9.46 8.27 8.54 10.02 9.03 9.11 11.92 12.43 11.13 11.47 9.32 12.53 11.77 8.36 8.46	3.09 2.62 2.72 3.25 2.94 3.03 4.00 4.15 3.54 3.70 3.08 4.03 3.72 2.79 2.89	1.13 1.01 1.03 1.21 1.10 1.11 1.47 1.50 1.32 1.35 1.17 1.41 1.32 1.11	4.15 3.50 3.71 4.41 3.86 3.86 5.25 5.52 4.78 4.93 4.19 5.41 4.90 3.81 3.86	0.72 0.60 0.63 0.76 0.66 0.68 0.92 0.96 0.81 0.85 0.73 0.95 0.84 0.68	4.72 3.99 4.24 5.03 4.33 4.52 6.23 6.54 5.25 5.60 4.90 6.26 5.45 4.42 4.32	0.99 0.84 0.89 1.06 0.92 0.94 1.31 1.38 1.12 1.19 1.03 1.33 1.14 0.95 0.91	2.90 2.39 2.61 3.11 2.65 2.78 3.90 4.08 3.19 3.48 3.04 3.95 3.22 2.79 2.61	0.41 0.34 0.37 0.45 0.38 0.40 0.57 0.59 0.46 0.49 0.44 0.58 0.46 0.40 0.36	2.61 2.13 2.42 2.84 2.33 2.53 3.64 3.83 2.82 2.75 3.70 2.88 2.57 2.33	0.39 0.32 0.36 0.42 0.35 0.38 0.55 0.58 0.42 0.41 0.55 0.42 0.43	2.22 1.90 2.01 2.39 2.17 2.14 2.96 3.07 2.67 2.71 2.32 2.96 2.97 2.05 2.04	0.07 0.06 0.06 0.08 0.07 0.10 0.11 0.17 0.17 0.10 0.16 0.16 0.06	0.02 n.d. 0.05 0.03 0.08 0.42 0.05 0.06 0.04 0.04 0.02 0.04 0.03 0.00 0.00	0.02 0.02 0.02 0.20 0.14 0.02 0.01 0.03 0.17 0.13 0.02 0.03 0.05 0.04	1.68 1.75 0.84 1.15 0.98 1.27 1.24 1.28 1.21 1.68 0.82 0.95 0.67 0.47	0.01 0.02 0.01 0.01 0.02 0.01 0.01 0.02 0.01 0.01	0.14 0.10 0.16 0.18 0.10 0.16 0.23 0.24 0.21 0.27 0.18 0.44 0.23 0.15	0.13 0.34 0.32 0.49 0.36 0.46 0.41 0.51 0.09 0.13 0.07 0.17 0.20 0.05
Site 442 442A, 31R-1, 75-78 442A, 32R-2, 86-91 442A, 32R-2, 86-91 442B, 3R-3, 40-46 442B, 5R-2, 56-64 442B, 6R-2, 32-36 442B, 11R-2, 49-55 442B, 12R-1, 93-99 Site 443 443, 49R-3, 123-128 443, 52R-1, 0-5 443, 53R-2, 114-122 443, 55R-1, 83-89 443, 58R-4, 28-35 443, 59R-2, 91-97 443, 60R-2, 104-110 443, 61R-3, 36-42 Site 444 444A, 20R-1, 74-79	ppm n.d. n.d. n.d. n.d. n.d. n.d. n.d. 0.05 0.05 0.06 0.07 n.d. n.d. n.d.	0.25 0.13 0.83 0.17 0.02 0.18 0.08 0.13 0.01 0.04 0.12 0.24 0.06 0.11	14.89 13.86 13.60 17.59 16.27 11.31 13.87 14.40 15.03 16.11 14.92 13.99 22.85 6.81 7.43	3.43 2.98 3.09 3.86 3.39 3.38 4.26 4.59 4.62 4.65 3.54 5.30 4.96 2.76 2.74	10.51 9.07 9.47 11.38 10.47 10.10 13.08 13.62 13.24 13.38 10.54 14.87 14.14 8.92 9.02	1.76 1.55 1.60 1.92 1.73 1.75 2.27 2.35 2.17 2.18 1.81 2.41 2.28 1.56 1.59	9.46 8.27 8.54 10.02 9.03 9.11 11.92 12.43 11.13 11.47 9.32 12.53 11.77 8.36 8.46	3.09 2.62 2.72 3.25 2.94 3.03 4.00 4.15 3.54 3.70 3.08 4.03 3.72 2.79 2.78	1.13 1.01 1.03 1.21 1.10 1.11 1.47 1.50 1.32 1.35 1.17 1.41 1.32 1.11	4.15 3.50 3.71 4.41 3.86 3.86 5.25 5.52 4.78 4.93 4.19 5.41 4.90 3.81 3.86 3.87	0.72 0.60 0.63 0.76 0.66 0.68 0.92 0.96 0.81 0.85 0.73 0.95 0.84 0.68	4.72 3.99 4.24 5.03 4.33 4.52 6.23 6.54 5.25 5.60 4.90 6.26 5.45 4.42 4.32	0.99 0.84 0.89 1.06 0.92 0.94 1.31 1.38 1.12 1.19 1.03 1.33 1.14 0.95 0.91	2.90 2.39 2.61 3.11 2.65 2.78 3.90 4.08 3.19 3.48 3.04 3.95 3.22 2.79 2.61	0.41 0.34 0.37 0.45 0.38 0.40 0.57 0.59 0.46 0.49 0.44 0.58 0.46 0.30	2.61 2.13 2.42 2.84 2.33 2.53 3.64 3.83 2.82 2.75 3.70 2.88 2.57 2.33 2.49	0.39 0.32 0.36 0.42 0.35 0.38 0.55 0.58 0.42 0.41 0.55 0.42 0.43	2.22 1.90 2.01 2.39 2.17 2.14 2.96 3.07 2.67 2.71 2.32 2.96 2.97 2.05 2.04 2.00	0.07 0.06 0.06 0.08 0.07 0.10 0.11 0.17 0.10 0.16 0.17 0.06 0.06	0.02 n.d. 0.05 0.03 0.08 0.42 0.05 0.06 0.04 0.04 0.02 0.04 0.03 0.00 0.00	0.02 0.02 0.02 0.20 0.14 0.02 0.01 0.03 0.17 0.13 0.02 0.03 0.05 0.04	1.68 1.75 0.84 1.15 0.98 1.27 1.24 1.28 1.21 1.68 0.82 0.95 0.67 0.47 0.48 0.86	0.01 0.02 0.01 0.01 0.02 0.01 0.01 0.02 0.01 0.01	0.14 0.10 0.16 0.18 0.10 0.16 0.23 0.24 0.21 0.27 0.18 0.44 0.23 0.15	0.13 0.34 0.32 0.49 0.36 0.46 0.41 0.51 0.09 0.13 0.07 0.17 0.20 0.05 0.05 0.05
Site 442 442A, 31R-1, 75-78 442A, 32R-2, 86-91 442A, 32R-2, 86-91 442B, 3R-3, 40-46 442B, 5R-2, 56-64 442B, 6R-2, 32-36 442B, 11R-2, 49-55 442B, 12R-1, 93-99 Site 443 443, 49R-3, 123-128 443, 52R-1, 0-5 443, 53R-2, 114-122 443, 55R-1, 83-89 443, 58R-4, 28-35 443, 59R-2, 91-97 443, 60R-2, 104-110 443, 61R-3, 36-42 Site 444 444A, 20R-1, 74-79 444A, 20R-1, 74-79 444A, 20R-2, 4-10	n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d.	0.25 0.13 0.83 0.17 0.02 0.18 0.08 0.13 0.01 0.04 0.12 0.24 0.06 0.11 0.01	14.89 13.86 13.60 17.59 16.27 11.31 13.87 14.40 15.03 16.11 14.92 13.99 22.85 6.81 7.43 6.92	3.43 2.98 3.09 3.86 3.39 3.38 4.26 4.59 4.62 4.65 3.54 5.30 4.96 2.76 2.74	10.51 9.07 9.47 11.38 10.47 10.10 13.08 13.62 13.24 13.38 10.54 14.87 14.18 14.87 14.14 8.92 9.02 8.74	1.76 1.55 1.60 1.92 1.73 1.75 2.27 2.35  2.17 2.18 1.81 2.41 2.28 1.56 1.59 1.54	9.46 8.27 10.02 9.03 9.11 11.92 12.43 11.13 11.47 9.32 12.53 11.77 8.36 8.46 8.17	3.09 2.62 2.72 3.25 2.94 3.03 4.00 4.15 3.54 3.70 3.08 4.03 3.72 2.79 2.89 2.78	1.13 1.01 1.03 1.21 1.10 1.11 1.47 1.50 1.32 1.35 1.17 1.41 1.32 1.11 1.12	4.15 3.50 3.71 4.41 3.86 3.86 5.25 5.52 4.78 4.93 4.19 5.41 4.90 3.81 3.86 3.87	0.72 0.60 0.63 0.76 0.66 0.68 0.92 0.96 0.81 0.85 0.73 0.95 0.86 0.66	4.72 3.99 4.24 5.03 4.33 4.52 6.23 6.54 5.25 5.60 4.90 6.26 5.45 4.42 4.37	0.99 0.84 0.89 1.06 0.92 0.94 1.31 1.38 1.12 1.19 1.03 1.33 1.33 1.14 0.95 0.91 0.93	2.90 2.39 2.61 3.11 2.65 2.78 3.90 4.08 3.19 3.48 3.04 3.95 3.22 2.79 2.61 2.74	0.41 0.34 0.37 0.45 0.38 0.40 0.57 0.59 0.46 0.49 0.44 0.58 0.40 0.36 0.39	2.61 2.13 2.42 2.84 2.33 2.53 3.64 3.83 2.82 2.75 3.70 2.88 2.57 2.33 2.49	0.39 0.32 0.36 0.42 0.35 0.38 0.55 0.58 0.42 0.41 0.55 0.42 0.43 0.41 0.52 0.38	2.22 1.90 2.01 2.39 2.17 2.14 2.96 3.07 2.67 2.71 2.32 2.96 2.97 2.05 2.04 2.00	0.07 0.06 0.06 0.08 0.07 0.10 0.11 0.17 0.10 0.16 0.16 0.06	0.02 n.d. 0.05 0.03 0.08 0.42 0.05 0.06 0.04 0.04 0.02 0.04 0.03 0.00 0.01	0.02 0.02 0.02 0.20 0.14 0.02 0.01 0.03 0.17 0.13 0.02 0.03 0.05 0.04 0.01	1.68 1.75 0.84 1.15 0.98 1.27 1.24 1.28 1.21 1.68 0.82 0.95 0.67 0.47 0.48 0.86	0.01 0.02 0.01 0.01 0.02 0.01 0.01 0.01	0.14 0.10 0.16 0.18 0.10 0.16 0.23 0.24 0.21 0.27 0.18 0.44 0.23 0.15 0.10	0.13 0.34 0.32 0.49 0.36 0.46 0.41 0.51 0.09 0.13 0.07 0.17 0.20 0.05 0.05
Site 442 442A, 31R-1, 75-78 442A, 31R-1, 75-78 442A, 32R-2, 86-91 442B, 3R-3, 40-46 442B, 5R-2, 56-64 442B, 6R-2, 32-36 442B, 11R-2, 49-55 442B, 12R-1, 93-99 Site 443 443, 52R-1, 0-5 443, 53R-2, 114-122 443, 55R-1, 83-89 443, 59R-2, 91-97 443, 60R-2, 104-110 443, 61R-3, 36-42 Site 444 444A, 20R-1, 74-79 444A, 20R-2, 4-10 444A, 20R-2, 4-10 444A, 20R-2, 4-10 444A, 20R-2, 4-10	n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d.	0.25 0.13 0.83 0.17 0.02 0.18 0.08 0.13 0.01 0.04 0.12 0.24 0.06 0.11 0.01	14.89 13.86 13.60 17.59 16.27 11.31 13.87 14.40 15.03 16.11 14.92 13.99 22.85 6.81 7.43 6.92	3.43 2.98 3.09 3.86 3.39 3.38 4.26 4.59 4.62 4.65 3.54 5.30 4.96 2.76 2.74 2.74	10.51 9.07 9.47 11.38 10.47 10.10 13.08 13.62 13.24 13.38 10.54 14.87 14.14 8.92 8.74	1.76 1.55 1.60 1.92 1.73 1.75 2.27 2.35 2.17 2.18 1.81 2.41 2.28 1.56 1.59 1.54	9.46 8.27 8.54 10.02 9.03 9.11 11.92 12.43 11.13 11.47 9.32 12.53 11.77 8.36 8.46 8.17	3.09 2.62 2.72 3.25 2.94 3.03 4.00 4.15 3.54 3.70 3.08 4.03 3.72 2.79 2.89 2.78	1.13 1.01 1.03 1.21 1.10 1.11 1.47 1.50 1.32 1.35 1.17 1.41 1.12 1.10	4.15 3.50 3.71 4.41 3.86 3.86 5.25 5.52 4.78 4.93 4.19 5.41 4.90 3.81 3.86 3.87	0.72 0.60 0.63 0.76 0.66 0.68 0.92 0.96 0.81 0.85 0.73 0.95 0.68 0.66 0.67	4.72 3.99 4.24 5.03 4.33 4.52 6.23 6.54 5.25 5.60 4.90 6.26 5.45 4.42 4.32 4.37 5.82 4.12 5.51	0.99 0.84 0.89 1.06 0.92 0.94 1.31 1.38 1.12 1.19 1.03 1.33 1.14 0.95 0.91 0.93	2.90 2.39 2.61 3.11 2.65 2.78 3.90 4.08 3.19 3.48 3.04 3.92 2.79 2.61 2.74	0.41 0.34 0.37 0.45 0.38 0.40 0.57 0.59 0.46 0.49 0.44 0.58 0.46 0.36 0.39	2.61 2.13 2.42 2.84 2.33 2.53 3.64 3.83 2.82 3.22 2.75 3.70 2.88 2.57 2.33 2.49	0.39 0.32 0.36 0.42 0.35 0.38 0.55 0.58 0.42 0.41 0.55 0.42 0.33 0.37	2.22 1.90 2.01 2.39 2.17 2.14 2.96 3.07 2.67 2.71 2.32 2.96 2.97 2.05 2.04 2.00	0.07 0.06 0.06 0.08 0.07 0.10 0.11 0.17 0.17 0.10 0.16 0.06 0.06 0.06	0.02 n.d. 0.05 0.03 0.08 0.42 0.05 0.06 0.04 0.04 0.02 0.04 0.02 0.04 0.03 0.00 0.01	0.02 0.02 0.02 0.20 0.14 0.02 0.01 0.03 0.17 0.13 0.02 0.03 0.05 0.04 0.01 0.01	1.68 1.75 0.84 1.15 0.98 1.27 1.24 1.28 1.21 1.68 0.82 0.95 0.67 0.47 0.48 0.86	0.01 0.02 0.01 0.01 0.01 0.01 0.01 0.01	0.14 0.10 0.16 0.18 0.10 0.16 0.23 0.24 0.21 0.27 0.18 0.42 0.15 0.10 0.12	0.13 0.34 0.32 0.49 0.36 0.46 0.41 0.51 0.09 0.13 0.07 0.17 0.20 0.05 0.05 0.08
Site 442 442A, 31R-1, 75-78 442A, 32R-2, 86-91 442A, 32R-2, 86-91 442B, 3R-3, 40-46 442B, 5R-2, 56-64 442B, 6R-2, 32-36 442B, 11R-2, 49-55 442B, 12R-1, 93-99 Site 443 443, 49R-3, 123-128 443, 52R-1, 0-5 443, 53R-2, 114-122 443, 55R-1, 83-89 443, 58R-4, 28-35 443, 59R-2, 91-97 443, 60R-2, 104-110 443, 61R-3, 36-42 Site 444 444A, 20R-1, 74-79 444A, 20R-1, 74-79 444A, 20R-2, 4-10	n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d.	0.25 0.13 0.83 0.17 0.02 0.18 0.08 0.13 0.01 0.04 0.12 0.24 0.06 0.11 0.01 0.32	14.89 13.86 13.60 17.59 16.27 11.31 13.87 14.40 15.03 16.11 14.92 13.99 22.85 6.81 7.43 6.92	3.43 2.98 3.09 3.86 3.39 3.38 4.26 4.59 4.62 4.65 3.54 5.30 4.96 2.76 2.74 2.74	10.51 9.07 9.47 11.38 10.47 10.10 13.08 13.62 13.24 13.38 10.54 14.87 14.14 8.92 9.02 8.74	1.76 1.55 1.60 1.92 1.73 1.75 2.27 2.35 2.17 2.18 1.81 2.41 2.28 1.56 1.59 1.54	9.46 8.27 8.54 10.02 9.03 9.11 11.92 12.43 11.13 11.47 9.32 12.53 11.77 8.36 8.46 8.17	3.09 2.62 2.72 3.25 2.94 3.03 4.00 4.15 3.54 3.70 3.08 4.03 3.72 2.79 2.78	1.13 1.01 1.03 1.21 1.10 1.11 1.47 1.50 1.32 1.35 1.17 1.41 1.32 1.11 1.12 1.10	4.15 3.50 3.71 4.41 3.86 3.86 5.25 5.52 4.78 4.93 4.19 5.41 4.90 3.81 3.86 5.25 5.52	0.72 0.60 0.63 0.76 0.66 0.68 0.92 0.96 0.81 0.85 0.73 0.95 0.84 0.66 0.67	4.72 3.99 4.24 5.03 4.33 4.52 6.23 6.54 5.25 5.60 4.90 6.26 5.45 4.42 4.37	0.99 0.84 0.89 1.06 0.92 0.94 1.31 1.38 1.12 1.19 1.03 1.33 1.14 0.95 0.91 0.93	2.90 2.39 2.61 3.11 2.65 2.78 3.90 4.08 3.19 3.48 3.04 3.95 3.22 2.79 2.61 2.74	0.41 0.34 0.37 0.45 0.38 0.40 0.57 0.59 0.46 0.49 0.44 0.58 0.46 0.39	2.61 2.13 2.42 2.84 2.33 2.53 3.64 3.83 2.82 2.75 3.70 2.88 2.57 2.33 2.49	0.39 0.32 0.36 0.42 0.35 0.38 0.55 0.58 0.42 0.41 0.55 0.42 0.38 0.37	2.22 1.90 2.01 2.39 2.17 2.14 2.96 3.07 2.67 2.71 2.32 2.96 2.97 2.05 2.04 2.00	0.07 0.06 0.06 0.08 0.07 0.10 0.11 0.17 0.10 0.16 0.17 0.06 0.06	0.02 n.d. 0.05 0.03 0.08 0.42 0.05 0.06 0.04 0.04 0.02 0.04 0.03 0.00 0.01	0.02 0.02 0.02 0.20 0.14 0.02 0.01 0.03 0.17 0.13 0.02 0.03 0.05 0.04 0.01	1.68 1.75 0.84 1.15 0.98 1.27 1.24 1.28 1.21 1.68 0.82 0.95 0.67 0.47 0.48 0.86	0.01 0.02 0.01 0.01 0.02 0.01 0.01 0.01	0.14 0.10 0.16 0.18 0.10 0.16 0.23 0.24 0.21 0.27 0.18 0.44 0.23 0.15 0.10 0.10	0.13 0.34 0.32 0.49 0.36 0.46 0.41 0.51 0.09 0.13 0.07 0.17 0.20 0.05 0.05 0.08
Site 442 442A, 31R-1, 75-78 442A, 31R-1, 75-78 442A, 32R-2, 86-91 442B, 3R-3, 40-46 442B, 5R-2, 56-64 442B, 6R-2, 32-36 442B, 11R-2, 49-55 442B, 12R-1, 93-99 Site 443 443, 52R-1, 0-5 443, 53R-2, 114-122 443, 55R-1, 83-89 443, 59R-2, 91-97 443, 60R-2, 104-110 443, 61R-3, 36-42 Site 444 444A, 20R-1, 74-79 444A, 20R-2, 4-10 444A, 20R-2, 4-10 444A, 20R-2, 4-10 444A, 20R-2, 4-10	ppm n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d	0.25 0.13 0.83 0.17 0.02 0.18 0.08 0.13 0.01 0.04 0.12 0.24 0.06 0.11 0.03 0.07 0.26 0.14	14.89 13.86 13.60 17.59 16.27 11.31 13.87 14.40 15.03 16.11 14.92 13.99 22.85 6.81 7.43 6.92	3.43 2.98 3.09 3.86 3.39 3.38 4.26 4.59 4.62 4.65 3.54 5.30 4.96 2.76 2.74 2.74	10.51 9.07 9.47 11.38 10.47 10.10 13.08 13.62 13.24 13.38 10.54 14.87 14.14 8.92 9.02 8.74 39.97 28.98 16.57	1.76 1.55 1.60 1.92 1.73 1.75 2.27 2.35 2.17 2.18 1.81 2.41 2.28 1.56 1.59 1.54	9.46 8.27 8.54 10.02 9.03 9.11 11.92 12.43 11.13 11.47 9.32 12.53 11.77 8.36 8.46 8.17	3.09 2.62 2.72 3.25 2.94 3.03 4.00 4.15 3.54 3.70 3.08 4.03 3.72 2.79 2.89 2.78	1.13 1.01 1.03 1.21 1.10 1.11 1.47 1.50 1.32 1.35 1.17 1.41 1.12 1.10	4.15 3.50 3.71 4.41 3.86 3.86 5.25 5.52 4.78 4.93 4.19 5.41 4.90 3.81 3.86 5.25 5.52	0.72 0.60 0.63 0.76 0.66 0.68 0.92 0.96 0.81 0.85 0.73 0.95 0.68 0.66 0.67	4.72 3.99 4.24 5.03 4.33 4.52 6.23 6.54 5.25 5.60 4.90 6.26 5.45 4.42 4.32 4.37 5.82 4.12 5.51	0.99 0.84 0.89 1.06 0.92 0.94 1.31 1.38 1.12 1.19 1.03 1.33 1.14 0.95 0.91 0.93	2.90 2.39 2.61 3.11 2.65 2.78 3.90 4.08 3.19 3.48 3.04 3.92 2.79 2.61 2.74	0.41 0.34 0.37 0.45 0.38 0.40 0.57 0.59 0.46 0.49 0.44 0.58 0.46 0.36 0.39	2.61 2.13 2.42 2.84 2.33 2.53 3.64 3.83 2.82 3.22 2.75 3.70 2.88 2.57 2.33 2.49	0.39 0.32 0.36 0.42 0.35 0.38 0.55 0.58 0.42 0.48 0.41 0.55 0.42 0.38 0.34 0.37	2.22 1.90 2.01 2.39 2.17 2.14 2.96 3.07 2.67 2.71 2.32 2.96 2.97 2.05 2.04 2.00	0.07 0.06 0.06 0.08 0.07 0.10 0.11 0.17 0.17 0.10 0.16 0.06 0.06 0.06	0.02 n.d. 0.05 0.03 0.08 0.42 0.05 0.06 0.04 0.02 0.04 0.03 0.00 0.01	0.02 0.02 0.02 0.20 0.14 0.02 0.01 0.03 0.17 0.13 0.02 0.03 0.05 0.04 0.01 0.01	1.68 1.75 0.84 1.15 0.98 1.27 1.24 1.28 1.21 1.68 0.82 0.95 0.67 0.47 0.48 0.86	0.01 0.02 0.01 0.01 0.01 0.01 0.01 0.01	0.14 0.10 0.16 0.18 0.10 0.16 0.23 0.24 0.21 0.27 0.18 0.42 0.15 0.10 0.12	0.13 0.34 0.32 0.49 0.36 0.46 0.41 0.51 0.09 0.13 0.07 0.17 0.20 0.05 0.05 0.08
Site 442 442A, 31R-1, 75-78 442A, 32R-2, 86-91 442A, 32R-2, 86-91 442B, 3R-3, 40-46 442B, 5R-2, 56-64 442B, 6R-2, 32-36 442B, 11R-2, 49-55 442B, 12R-1, 93-99 Site 443 443, 49R-3, 123-128 443, 52R-1, 0-5 443, 53R-2, 114-122 443, 55R-1, 83-89 443, 58R-4, 28-35 443, 59R-2, 91-97 443, 60R-2, 104-110 443, 61R-3, 36-42 Site 444 444A, 20R-1, 74-79 444A, 20R-2, 4-10 444A, 24R-1, 89-93 444A, 27R-5, 71-77	ppm n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d	0.25 0.13 0.83 0.17 0.02 0.18 0.08 0.13 0.01 0.04 0.12 0.24 0.06 0.11 0.01 0.32	14.89 13.86 13.60 17.59 16.27 11.31 13.87 14.40 15.03 16.11 14.92 13.99 22.85 6.81 7.43 6.92	3.43 2.98 3.09 3.86 3.39 3.38 4.26 4.59 4.62 4.65 3.54 5.30 4.96 2.76 2.74 2.74	10.51 9.07 9.47 11.38 10.47 10.10 13.08 13.62 13.24 13.38 10.54 14.87 14.14 8.92 9.02 8.74 39.97 28.98 16.57	1.76 1.55 1.60 1.92 1.73 1.75 2.27 2.35 2.17 2.18 1.81 2.41 2.28 1.56 1.59 1.54	9.46 8.27 8.54 10.02 9.03 9.11 11.92 12.43 11.13 11.47 9.32 12.53 11.77 8.36 8.46 8.17	3.09 2.62 2.72 3.25 2.94 3.03 4.00 4.15 3.54 3.70 3.08 4.03 3.72 2.79 2.89 2.78	1.13 1.01 1.03 1.21 1.10 1.11 1.47 1.50 1.32 1.35 1.17 1.41 1.12 1.10	4.15 3.50 3.71 4.41 3.86 3.86 5.25 5.52 4.78 4.93 4.19 5.41 4.90 3.81 3.86 5.25 5.52	0.72 0.60 0.63 0.76 0.66 0.68 0.92 0.96 0.81 0.85 0.73 0.95 0.68 0.66 0.67	4.72 3.99 4.24 5.03 4.33 4.52 6.23 6.54 5.25 5.60 4.90 6.26 5.45 4.42 4.32 4.37 5.82 4.12 5.51	0.99 0.84 0.89 1.06 0.92 0.94 1.31 1.38 1.12 1.19 1.03 1.33 1.14 0.95 0.91 0.93	2.90 2.39 2.61 3.11 2.65 2.78 3.90 4.08 3.19 3.48 3.04 3.92 2.79 2.61 2.74	0.41 0.34 0.37 0.45 0.38 0.40 0.57 0.59 0.46 0.49 0.44 0.58 0.46 0.36 0.39	2.61 2.13 2.42 2.84 2.33 2.53 3.64 3.83 2.82 3.22 2.75 3.70 2.88 2.57 2.33 2.49	0.39 0.32 0.36 0.42 0.35 0.38 0.55 0.58 0.42 0.48 0.41 0.55 0.42 0.38 0.34 0.37	2.22 1.90 2.01 2.39 2.17 2.14 2.96 3.07 2.67 2.71 2.32 2.96 2.97 2.05 2.04 2.00	0.07 0.06 0.06 0.08 0.07 0.10 0.11 0.17 0.17 0.10 0.16 0.06 0.06 0.06	0.02 n.d. 0.05 0.03 0.08 0.42 0.05 0.06 0.04 0.02 0.04 0.03 0.00 0.01	0.02 0.02 0.02 0.20 0.14 0.02 0.01 0.03 0.17 0.13 0.02 0.03 0.05 0.04 0.01 0.01	1.68 1.75 0.84 1.15 0.98 1.27 1.24 1.28 1.21 1.68 0.82 0.95 0.67 0.47 0.48 0.86	0.01 0.02 0.01 0.01 0.01 0.01 0.01 0.01	0.14 0.10 0.16 0.18 0.10 0.16 0.23 0.24 0.21 0.27 0.18 0.42 0.15 0.10 0.12	0.13 0.34 0.32 0.49 0.36 0.46 0.41 0.51 0.09 0.13 0.07 0.17 0.20 0.05 0.05 0.08
Site 442 442A, 31R-1, 75-78 442A, 32R-2, 86-91 442A, 34R-1, 72-79 442B, 3R-3, 40-46 442B, 5R-2, 56-64 442B, 61R-2, 32-36 442B, 11R-2, 49-55 442B, 12R-1, 93-99 Site 443 443, 54R-3, 123-128 443, 52R-1, 0-5 443, 53R-2, 114-122 443, 55R-1, 83-89 443, 59R-2, 91-97 443, 60R-2, 104-110 443, 61R-3, 36-42 Site 444 444A, 20R-1, 74-79 444A, 20R-2, 4-10 444A, 24R-1, 89-93 444A, 27R-5, 71-77 Site 808	ppm n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d	0.25 0.13 0.83 0.17 0.02 0.18 0.08 0.13 0.01 0.04 0.12 0.24 0.06 0.11 0.01 0.32	14.89 13.86 13.60 17.59 16.27 11.31 13.87 14.40 15.03 16.11 14.92 13.99 22.85 6.81 7.43 6.92 124.30 100.60 69.37 36.44	3.43 2.98 3.09 3.86 3.39 3.38 4.26 4.59 4.62 4.65 3.54 5.30 4.96 2.76 2.74 2.74	10.51 9.07 9.47 11.38 10.47 10.10 13.08 13.62 13.24 13.38 10.54 14.87 14.14 8.92 9.02 8.74 39.97 28.98 16.57 15.67	1.76 1.55 1.60 1.92 1.73 1.75 2.27 2.35  2.17 2.18 1.81 2.41 2.48 1.56 1.59 1.54  4.87 3.52 2.59 2.42	9.46 8.25 10.02 9.03 9.11 11.92 12.43 11.13 11.47 9.32 12.53 11.77 8.36 8.46 8.17	3.09 2.62 2.72 3.25 2.94 3.03 4.00 4.15 3.54 3.70 3.08 4.03 3.72 2.79 2.89 2.78 4.92 3.62 3.94 3.74	1.13 1.01 1.03 1.21 1.10 1.11 1.47 1.50 1.32 1.35 1.17 1.41 1.12 1.10	4.15 3.50 3.71 4.41 3.86 3.86 5.25 5.52 4.78 4.93 4.19 5.41 4.90 3.81 3.86 3.87 5.62 4.98 4.71	0.72 0.60 0.63 0.76 0.66 0.68 0.92 0.96 0.81 0.85 0.73 0.95 0.68 0.68 0.67 0.93 0.66 0.86 0.82	4.72 3.99 4.24 5.03 4.33 4.52 6.23 6.54 5.25 5.60 4.90 6.26 5.45 4.42 4.32 4.37 5.82 4.12 5.51 5.26	0.99 0.84 0.89 1.06 0.92 0.94 1.31 1.38 1.12 1.19 1.03 1.33 1.14 0.95 0.91 0.93	2.90 2.39 2.61 3.11 2.65 2.78 3.90 4.08 3.19 3.48 3.04 3.92 2.79 2.61 2.74 3.47 2.44 3.32 3.28	0.41 0.34 0.37 0.45 0.38 0.40 0.57 0.59 0.46 0.49 0.44 0.58 0.46 0.36 0.39	2.61 2.13 2.42 2.84 2.33 2.53 3.64 3.83 2.82 2.75 3.70 2.88 2.57 2.33 2.49 3.18 2.21 2.96 3.05	0.39 0.32 0.36 0.42 0.35 0.58 0.58 0.42 0.48 0.41 0.55 0.42 0.38 0.34 0.37	2.22 1.90 2.01 2.39 2.17 2.14 2.96 3.07 2.67 2.71 2.32 2.96 2.97 2.05 2.04 2.00	0.07 0.06 0.06 0.08 0.07 0.10 0.11 0.17 0.10 0.16 0.06 0.06 0.06 1.48 1.05 0.28 0.27	0.02 n.d. 0.05 0.03 0.08 0.42 0.05 0.06  0.04 0.04 0.02 0.04 0.03 0.00 0.01 0.01  0.34 0.13 0.08 0.04	0.02 0.02 0.02 0.20 0.14 0.02 0.01 0.03 0.17 0.13 0.02 0.03 0.05 0.04 0.01 0.01	1.68 1.75 0.84 1.15 0.98 1.27 1.24 1.28  1.21 1.68 0.82 0.95 0.67 0.47 0.48 0.86  1.61 2.02 0.51 1.10	0.01 0.02 0.01 0.01 0.01 0.02 0.01 0.01	0.14 0.10 0.16 0.18 0.10 0.16 0.23 0.24 0.21 0.27 0.18 0.44 0.23 0.15 0.10 0.12 2.13 1.13 0.39 0.53	0.13 0.34 0.32 0.49 0.36 0.46 0.41 0.51 0.09 0.13 0.07 0.17 0.20 0.05 0.05 0.08
Site 442 442A, 31R-1, 75-78 442A, 31R-1, 75-78 442A, 34R-1, 72-79 442B, 3R-3, 40-46 442B, 5R-2, 56-64 442B, 5R-2, 32-36 442B, 11R-2, 49-55 442B, 12R-1, 93-99 Site 443 443, 49R-3, 123-128 443, 52R-1, 0-5 443, 53R-2, 114-122 443, 55R-1, 83-89 443, 58R-4, 28-35 443, 59R-2, 91-97 443, 60R-2, 104-110 443, 61R-3, 36-42 Site 444 444A, 20R-1, 74-79 444A, 20R-2, 4-10 444A, 24R-1, 89-93 444A, 27R-5, 71-77 Site 808 808, 106R-1, 113-118	ppm n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d	0.25 0.13 0.83 0.17 0.02 0.18 0.08 0.13 0.01 0.04 0.12 0.24 0.06 0.11 0.01 0.32	14.89 13.86 13.60 17.59 16.27 11.31 13.87 14.40 15.03 16.11 14.92 13.99 22.85 6.81 7.43 6.92 124.30 100.60 69.37 36.44	3.43 2.98 3.09 3.86 3.39 3.38 4.26 4.59 4.62 4.65 3.54 5.30 4.96 2.76 2.74 2.74	10.51 9.07 9.47 11.38 10.47 10.10 13.08 13.62 13.24 13.38 10.54 14.87 14.14 8.92 9.02 8.74 39.97 28.98 16.57 15.67	1.76 1.55 1.60 1.92 1.73 1.75 2.27 2.35  2.17 2.18 1.81 2.41 2.41 2.41 2.56 1.59 1.54  4.87 3.52 2.59 2.42	9.46 8.27 8.54 10.02 9.03 9.11 11.92 12.43 11.13 11.47 9.32 12.53 11.77 8.36 8.46 8.17 20.38 14.80 13.01 12.13	3.09 2.62 2.72 3.25 2.94 3.03 4.00 4.15 3.54 3.70 3.08 4.03 3.72 2.79 2.89 2.78 4.92 3.62 3.94 3.74	1.13 1.01 1.03 1.21 1.10 1.11 1.47 1.50  1.32 1.35 1.17 1.41 1.32 1.11 1.12 1.10  1.63 1.21 1.41 1.33	4.15 3.50 3.71 4.41 3.86 3.86 5.25 5.52 4.78 4.93 4.19 5.41 4.90 3.81 3.86 3.87 5.62 3.99 4.98 4.71	0.72 0.60 0.63 0.76 0.66 0.68 0.92 0.96 0.81 0.85 0.73 0.95 0.84 0.68 0.66 0.67	4.72 3.99 4.24 5.03 4.33 4.52 6.23 6.54 5.25 5.60 4.90 6.26 5.45 4.42 4.32 4.37 5.82 4.12 5.51 5.26	0.99 0.84 0.89 1.06 0.92 0.94 1.31 1.38 1.12 1.19 1.03 1.33 1.34 0.95 0.91 0.93 1.21 0.86 1.15 1.13	2.90 2.39 2.61 3.11 2.65 2.78 3.90 4.08 3.19 3.48 3.04 3.95 3.22 2.79 2.61 2.74 3.47 2.44 3.32 3.28	0.41 0.34 0.37 0.45 0.38 0.40 0.57 0.59 0.46 0.49 0.44 0.58 0.46 0.36 0.39	2.61 2.13 2.42 2.84 2.33 2.53 3.64 3.83 2.82 2.75 3.70 2.88 2.57 2.33 2.49 3.18 2.21 2.96 3.05	0.39 0.32 0.36 0.42 0.35 0.58 0.42 0.48 0.41 0.55 0.42 0.48 0.41 0.53 0.44 0.37	2.22 1.90 2.01 2.39 2.17 2.14 2.96 3.07 2.67 2.71 2.32 2.96 2.97 2.05 2.04 2.00 3.81 2.72 2.33 2.76	0.07 0.06 0.06 0.08 0.07 0.10 0.11 0.17 0.17 0.10 0.16 0.06 0.06 0.06	0.02 n.d. 0.05 0.03 0.08 0.42 0.05 0.06  0.04 0.04 0.02 0.04 0.03 0.00 0.01 0.01	0.02 0.02 0.02 0.20 0.14 0.02 0.01 0.03 0.17 0.13 0.02 0.03 0.05 0.04 0.01 0.01	1.68 1.75 0.84 1.15 0.98 1.27 1.24 1.28 1.21 1.68 0.82 0.95 0.67 0.47 0.48 0.86	0.01 0.02 0.01 0.01 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	0.14 0.10 0.16 0.18 0.10 0.16 0.23 0.24 0.21 0.27 0.18 0.44 0.23 0.15 0.10 0.12 2.13 1.13 0.39 0.53	0.13 0.34 0.32 0.49 0.36 0.46 0.41 0.51 0.09 0.13 0.07 0.17 0.20 0.05 0.05 0.08