

**INORGANIC GEOCHEMICAL DATA FOR
SURFACE SEDIMENTS FROM HALIFAX INLET**

G. V. WINTERS, D. E. BUCKLEY, R. A. FITZGERALD, K. W. G. LEBLANC

Atlantic Geoscience Centre
Energy Mines and Resources
Bedford Institute of Oceanography
Dartmouth, Nova Scotia. B2Y 4A2

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ABSTRACT

Geochemical data are compiled from analyses of surficial sediment samples collected from Halifax Inlet in 1986 and 1988. In 1986 Prouse and Hargrave collected Van Veen grab samples from 102 stations at water depths greater than 10 m on a grid from the mouth of the Sackville River to Maugher's Beach Lighthouse (McNabs Island). Similarly, in 1988 the OceanChem Group collected Van Veen grab samples from 135 stations in Halifax Inlet.

Sediment analyses included sediment texture (grain size distribution), water content, organic carbon, CaCO_3 , and total metals (Si, Al, Mg, K, Ti, Li, Fe, Mn, Ca, Cu, Zn, Ni, Cr, Pb, Cd and Hg). Chemical leach techniques were used to determine the potential labile metal partitioning in these sediments (Fe, Mn, Ca, Cu, Zn, Ni, Pb and Cr). Analyses were done by a sequential leach technique, including: (1) weak acid leachable metal, (2) easily reducible metals, (3) moderately reducible metals, and (4) residual metals. In addition separate analyses for organically bound metals were performed using H_2O_2 as an oxidant. Metals analyzed after this treatment included Fe, Mn, Cu, Zn, Ni, Cr and Pb. Redox potential (Eh) of the sediments was also measured at the time of sampling and is reported as pε.

TABLE OF CONTENTS

Abstract	1
Table of Contents	2
Station Location Map	
- Bedford Basin (Fig. 1a)	4
- Central harbour (Fig. 1b)	5
- Outer harbour (Fig. 1c)	6
Station Location Coordinates	7
Introduction	9
Field Methods	10
Laboratory Analyses	12
Analytical Data Tables	
- Fe _{org} , Fe _{WA} , Fe _{HA} , Fe _{HHA} , Fe _R , Fe _{SUM} , Fe _T , Mn _{org} , Mn _{WA} , Mn _{HA} , Mn _{HHA} , Mn _R , Mn _{SUM} , Mn _T	20
- Ca _{WA} , Ca _{HA} , Ca _{HHA} , Ca _R , Ca _{SUM} , Ca _T , Cu _{org} , Cu _{WA} , Cu _{HA} , Cu _{HHA} , Cu _R , Cu _{SUM} , Cu _T	25
- Zn _{org} , Zn _{WA} , Zn _{HA} , Zn _{HHA} , Zn _R , Zn _{SUM} , Zn _T , Ni _{org} , Ni _{WA} , Ni _{HA} , Ni _{HHA} , Ni _R , Ni _{SUM} , Ni _T	30
- Pb _{org} , Pb _{WA} , Pb _{HA} , Pb _{HHA} , Pb _R , Pb _{SUM} , Pb _T , Cr _{org} , Cr _{WA} , Cr _{HA} , Cr _{HHA} , Cr _R , Cr _{SUM} , Cr _T	35
- Si _R , Si _T , Al _R , Al _T , Mg _R , Mg _T , K _R , K _T , Ti _T , Li _T , Cd _T , Hg _T , Residue, CaCO ₃ , C _{org}	40
- Gravel, Sand, Silt, Clay, Mean grain size, Kurtosis, Skewness, p _e , Water	45
Concentration Distribution Maps	
- Manganese, organically bound (Mn _{org})	50
- Manganese, labile (Mn _{WA} +Mn _{HA} +Mn _{HHA})	51
- Copper, organically bound (Cu _{org})	52
- Zinc, organically bound (Zn _{org})	53
- Zinc, labile (Zn _{WA} +Zn _{HA} +Zn _{HHA})	54

Analytical Data Plots (continued)	
- Lead, organically bound (Pb_{org})	55
- Lead, labile ($Pb_{WA}+Pb_{HA}+Pb_{HHA}$)	56
- Lithium, total (Li_T)	57
- Cadmium, total (Cd_T)	58
- Organic carbon (C_{org})	59
- Clay	60
- $p\epsilon$	61
Acknowledgements	62
Reference	62

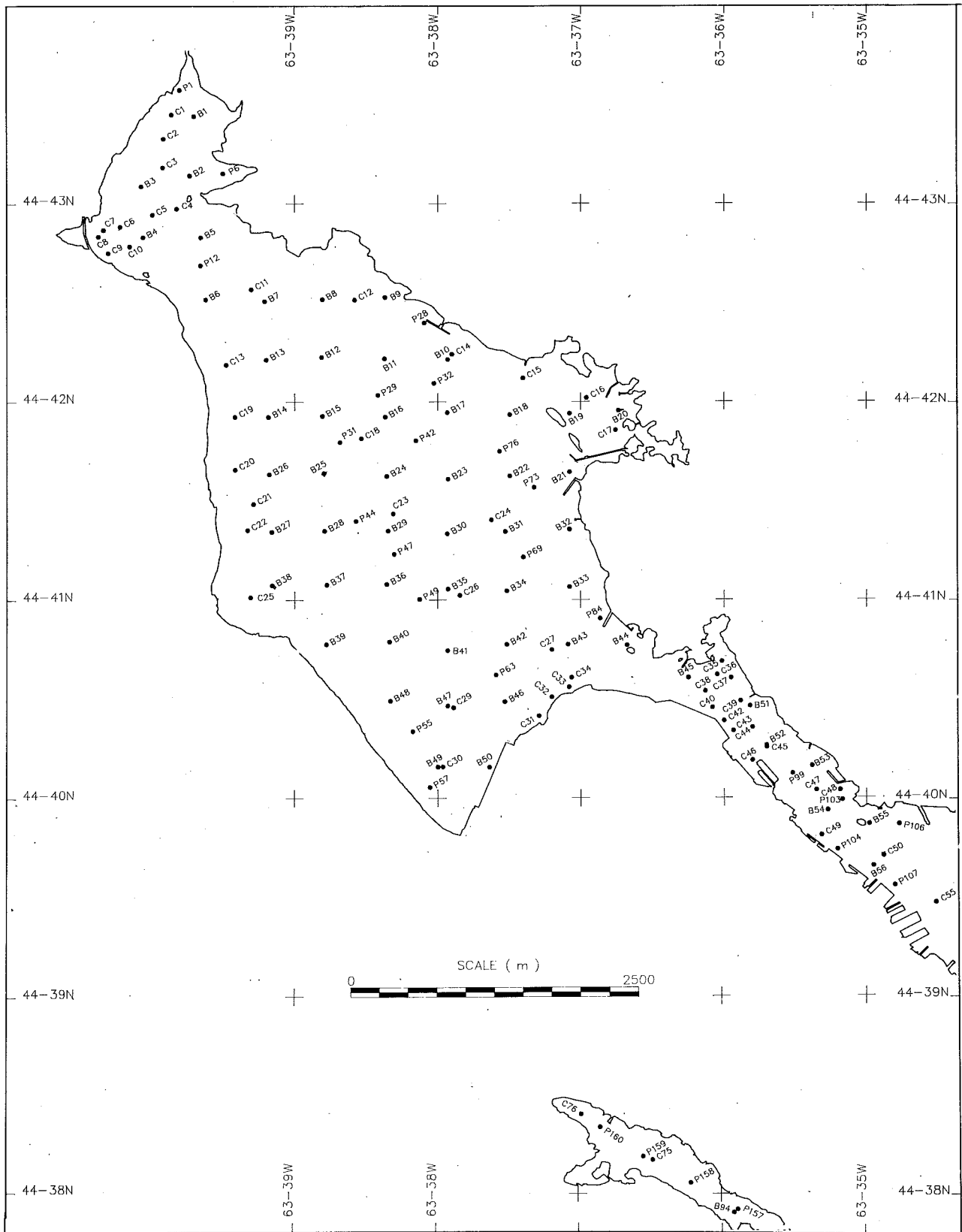


Figure 1a. Location of sampling stations --- Bedford Basin.

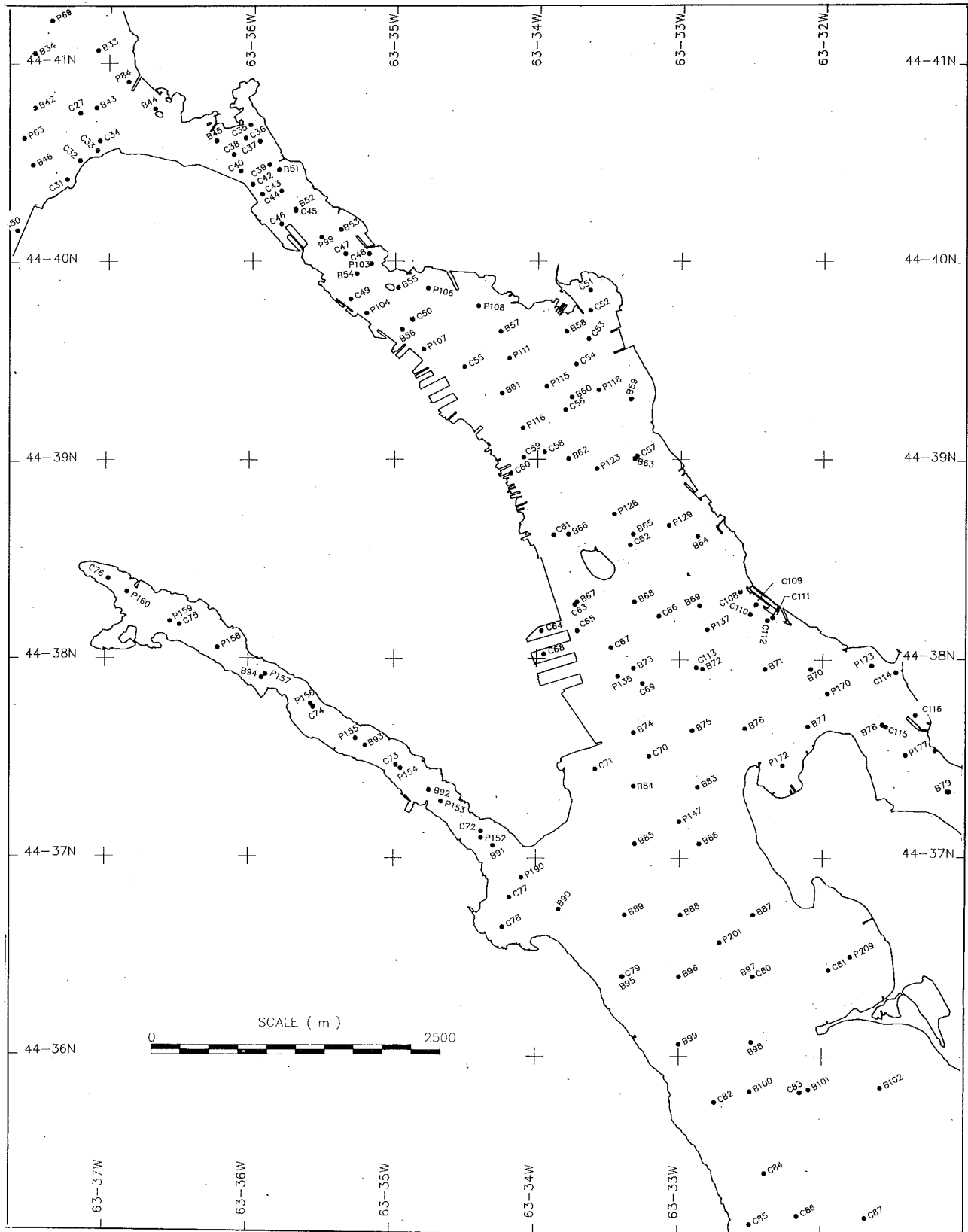


Figure 1b. Location of sampling stations --- Central harbour.

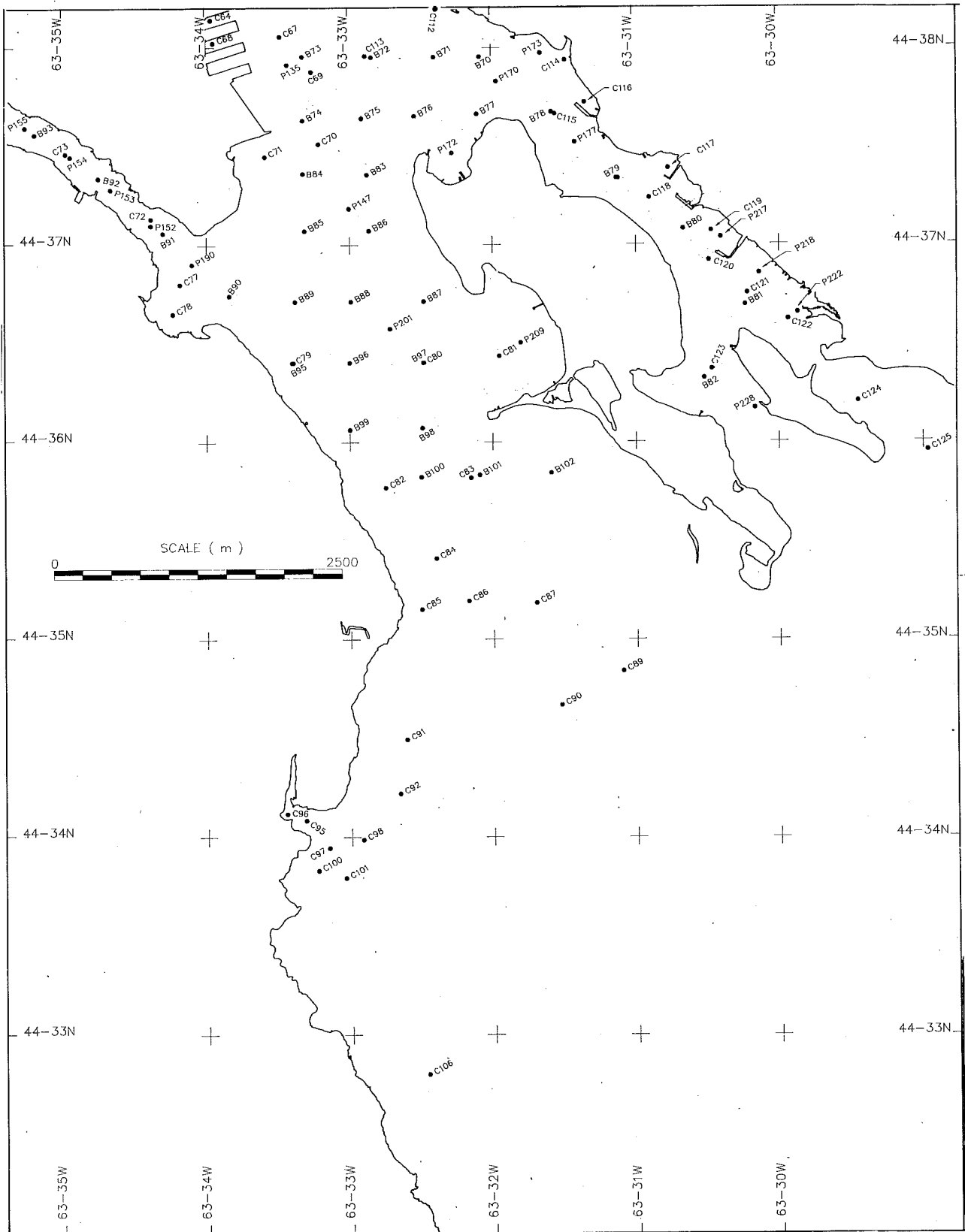


Figure 1c. Location of sampling stations --- Outer harbour.

Station Location Coordinates

STN	ID	Latitude	Longitude	STN	ID	Latitude	Longitude
B 1	53534	44.72400	-63.66167	B 71	53604	44.63250	-63.54000
B 2	53535	44.71900	-63.66217	B 72	53605	44.63250	-63.54733
B 3	53536	44.71810	-63.66783	B 73	53606	44.63258	-63.55534
B 4	53537	44.71383	-63.66763	B 74	53607	44.62717	-63.55533
B 5	53538	44.71380	-63.66088	B 75	53608	44.62733	-63.54850
B 6	53539	44.70858	-63.66033	B 76	53609	44.62750	-63.54233
B 7	53540	44.70842	-63.65350	B 77	53610	44.62767	-63.53500
B 8	53541	44.70858	-63.64683	B 78	53611	44.62783	-63.52633
B 9	53542	44.70871	-63.63950	B 79	53612	44.62222	-63.51880
B 10	53543	44.70350	-63.63220	B 80	53613	44.61793	-63.51105
B 11	53544	44.70358	-63.63958	B 81	53614	44.61150	-63.50387
B 12	53545	44.70371	-63.64692	B 82	53615	44.60533	-63.50867
B 13	53546	44.70350	-63.65333	B 83	53616	44.62258	-63.54787
B 14	53547	44.69867	-63.65308	B 84	53617	44.62267	-63.55533
B 15	53548	44.69875	-63.64683	B 85	53618	44.61783	-63.55517
B 16	53549	44.69867	-63.63950	B 86	53619	44.61783	-63.54767
B 17	53550	44.69903	-63.63225	B 87	53620	44.61183	-63.54133
B 18	53551	44.69883	-63.62500	B 88	53621	44.61183	-63.54983
B 19	53552	44.69892	-63.61800	B 89	53622	44.61183	-63.55633
B 20	53553	44.69917	-63.61233	B 90	53623	44.61233	-63.56400
B 21	53554	44.69400	-63.61800	B 91	53624	44.61767	-63.57167
B 22	53555	44.69367	-63.62500	B 92	53625	44.62234	-63.57922
B 23	53556	44.69342	-63.63217	B 93	53626	44.62608	-63.58667
B 24	53557	44.69367	-63.63933	B 94	53627	44.63167	-63.59850
B 25	53558	44.69392	-63.64667	B 95	53628	44.60667	-63.55653
B 26	53559	44.69383	-63.65300	B 96	53629	44.60667	-63.55000
B 27	53560	44.68900	-63.65270	B 97	53630	44.60667	-63.54133
B 28	53561	44.68908	-63.64658	B 98	53631	44.60115	-63.54153
B 29	53562	44.68908	-63.63917	B 99	53632	44.60100	-63.55000
B 30	53563	44.68883	-63.63225	B 100	53633	44.59700	-63.54167
B 31	53564	44.68900	-63.62550	B 101	53634	44.59717	-63.53483
B 32	53565	44.68917	-63.61800	B 102	53635	44.59733	-63.52650
B 33	53566	44.68433	-63.61800	C 1	53301	44.72414	-63.66428
B 34	53567	44.68400	-63.62533	C 2	53302	44.72211	-63.66522
B 35	53568	44.68417	-63.63217	C 3	53303	44.71969	-63.66531
B 36	53569	44.68458	-63.63933	C 4	53304	44.71622	-63.66369
B 37	53570	44.68453	-63.64633	C 5	53305	44.71572	-63.66653
B 38	53571	44.68450	-63.65267	C 6	53306	44.71472	-63.67028
B 39	53572	44.67953	-63.64637	C 7	53307	44.71444	-63.67222
B 40	53573	44.67975	-63.63900	C 8	53308	44.71389	-63.67278
B 41	53574	44.67900	-63.63220	C 9	53309	44.71250	-63.67167
B 42	53575	44.67950	-63.62533	C 10	53310	44.71306	-63.66917
B 43	53576	44.67950	-63.61816	C 11	53311	44.70942	-63.65506
B 44	53577	44.67942	-63.61133	C 12	53312	44.70853	-63.64306
B 45	53578	44.67667	-63.60417	C 13	53313	44.70308	-63.65797
B 46	53579	44.67467	-63.62553	C 14	53314	44.70394	-63.63169
B 47	53580	44.67433	-63.63220	C 15	53315	44.70192	-63.62344
B 48	53581	44.67475	-63.63892	C 16	53316	44.70025	-63.61603
B 49	53582	44.66920	-63.63333	C 17	53317	44.69753	-63.61267
B 50	53583	44.66917	-63.62733	C 18	53318	44.69686	-63.64228
B 51	53584	44.67430	-63.59697	C 19	53319	44.69869	-63.65694
B 52	53585	44.67097	-63.59500	C 20	53320	44.69425	-63.65692
B 53	53586	44.66925	-63.58967	C 21	53321	44.69136	-63.65481
B 54	53587	44.66553	-63.58783	C 22	53322	44.68917	-63.65550
B 55	53588	44.66437	-63.58300	C 23	53323	44.69053	-63.63856
B 56	53589	44.66083	-63.58250	C 24	53324	44.69000	-63.62714
B 57	53590	44.66067	-63.57100	C 25	53325	44.68350	-63.65514
B 58	53591	44.66067	-63.56333	C 26	53326	44.68364	-63.63081
B 59	53592	44.65500	-63.55583	C 27	53327	44.67906	-63.62006
B 60	53593	44.65517	-63.56267	C 29	53328	44.67419	-63.63153
B 61	53594	44.65550	-63.57083	C 30	53329	44.66922	-63.63275
B 62	53595	44.65000	-63.56303	C 31	53330	44.67350	-63.62156
B 63	53596	44.65000	-63.55533	C 32	53331	44.67508	-63.62006
B 64	53597	44.64350	-63.54800	C 33	53332	44.67592	-63.61803
B 65	53598	44.64367	-63.55550	C 34	53333	44.67672	-63.61775
B 66	53599	44.64367	-63.56300	C 35	53334	44.67806	-63.60028
B 67	53600	44.63800	-63.56200	C 36	53335	44.67694	-63.60083
B 68	53601	44.63800	-63.55533	C 37	53336	44.67667	-63.59917
B 69	53602	44.63767	-63.54775	C 38	53337	44.67556	-63.60222
B 70	53603	44.63250	-63.53467	C 39	53338	44.67472	-63.59806

STN	ID	Latitude	Longitude	STN	ID	Latitude	Longitude
C 40	53339	44.67417	-63.60139	C 118	53405	44.62056	-63.51500
C 42	53340	44.67306	-63.60000	C 119	53406	44.61778	-63.50778
C 43	53341	44.67222	-63.59889	C 120	53407	44.61528	-63.50806
C 44	53342	44.67250	-63.59667	C 121	53408	44.61250	-63.50361
C 45	53343	44.67083	-63.59500	C 122	53409	44.61028	-63.49889
C 46	53344	44.66972	-63.59667	C 123	53410	44.60611	-63.50778
C 47	53345	44.66722	-63.58917	C 124	53411	44.60333	-63.49083
C 48	53346	44.66722	-63.58639	C 125	53412	44.59917	-63.48278
C 49	53347	44.66342	-63.58856	C 126	53417	44.59850	-63.49883
C 50	53348	44.66167	-63.58133	C 131A	53418	44.58367	-63.44783
C 51	53349	44.66417	-63.56056	P 1	53419	44.72619	-63.66333
C 52	53350	44.66247	-63.56056	P 6	53424	44.71917	-63.65833
C 53	53351	44.66006	-63.56072	P 12	53430	44.71144	-63.66092
C 54	53352	44.65794	-63.56217	P 28	53445	44.70658	-63.63494
C 55	53353	44.65772	-63.57525	P 29	53446	44.70050	-63.64036
C 56	53354	44.65411	-63.56339	P 31	53448	44.69653	-63.64478
C 57	53355	44.65022	-63.55508	P 32	53449	44.70150	-63.63381
C 58	53356	44.65056	-63.56581	P 42	53457	44.69664	-63.63589
C 59	53357	44.65011	-63.56825	P 44	53459	44.68989	-63.64289
C 60	53358	44.64878	-63.56972	P 47	53462	44.68711	-63.63844
C 61	53359	44.64361	-63.56472	P 49	53464	44.68331	-63.63547
C 62	53360	44.64278	-63.55583	P 55	53470	44.67219	-63.63625
C 63	53361	44.63778	-63.56222	P 57	53494	44.66750	-63.63425
C 64	53362	44.63556	-63.56611	P 63	53473	44.67692	-63.62656
C 65	53363	44.63556	-63.56194	P 69	53479	44.68683	-63.62339
C 66	53364	44.63681	-63.55250	P 73	53483	44.69269	-63.62211
C 67	53365	44.63414	-63.55803	P 76	53486	44.69572	-63.62617
C 68	53366	44.63361	-63.56583	P 84	53493	44.68167	-63.61444
C 69	53367	44.63128	-63.55433	P 99	53506	44.66861	-63.59194
C 70	53368	44.62517	-63.55353	P 103	53510	44.66639	-63.58611
C 71	53369	44.62411	-63.55978	P 104	53511	44.66222	-63.58667
C 72	53370	44.61889	-63.57306	P 106	53513	44.66433	-63.57950
C 73	53371	44.62444	-63.58306	P 107	53514	44.65917	-63.58000
C 74	53372	44.62917	-63.59250	P 108	53515	44.66283	-63.57358
C 75	53373	44.63611	-63.60806	P 111	53518	44.65842	-63.56994
C 76	53374	44.64000	-63.61639	P 115	53522	44.65608	-63.56556
C 77	53375	44.61333	-63.56972	P 116	53523	44.65256	-63.56833
C 78	53376	44.61083	-63.57056	P 118	53525	44.65578	-63.55953
C 79	53377	44.60667	-63.55667	P 123	53530	44.64917	-63.55972
C 80	53413	44.60667	-63.54139	P 126	61202	44.64536	-63.55767
C 81	53414	44.60722	-63.53250	P 129	61205	44.64442	-63.55131
C 82	53415	44.59611	-63.54583	P 135	61211	44.63189	-63.55717
C 83	53416	44.59694	-63.53583	P 137	61213	44.63567	-63.54683
C 84	53378	44.59014	-63.53994	P 147	61223	44.61969	-63.55000
C 85	53379	44.58583	-63.54167	P 152	61225	44.61833	-63.57306
C 86	53380	44.58653	-63.53614	P 153	61226	44.62139	-63.57778
C 87	53381	44.58636	-63.52825	P 154	61227	44.62417	-63.58250
C 89	53382	44.58061	-63.51825	P 155	61228	44.62667	-63.58778
C 90	53383	44.57775	-63.52542	P 156	61229	44.62944	-63.59278
C 91	53384	44.57486	-63.54350	P 157	61230	44.63194	-63.59806
C 92	53385	44.57031	-63.54431	P 158	53532	44.63417	-63.60361
C 95	53386	44.56806	-63.55528	P 159	53533	44.63639	-63.60917
C 96	53387	44.56861	-63.55750	P 160	61231	44.63889	-63.61417
C 96A	53388	44.57117	-63.55717	P 170	61239	44.63044	-63.53272
C 97	53389	44.56572	-63.55261	P 172	61241	44.62439	-63.53792
C 98	53390	44.56642	-63.54864	P 173	61242	44.63281	-63.52758
C 100	53391	44.56381	-63.55389	P 177	61246	44.62528	-63.52361
C 101	53392	44.56319	-63.55069	P 190	61255	44.61500	-63.56833
C 106	53393	44.54667	-63.54111	P 201	61261	44.60953	-63.54528
C 108	53394	44.63886	-63.54297	P 209	61269	44.60833	-63.53000
C 109	53395	44.63778	-63.54111	P 217	61277	44.61722	-63.50667
C 110	53396	44.63694	-63.54181	P 218	61278	44.61417	-63.50222
C 111	53397	44.63667	-63.53917	P 222	61282	44.61083	-63.49778
C 112	53398	44.63644	-63.53983	P 228	61288	44.60278	-63.50278
C 113	53399	44.63261	-63.54806				
C 114	53400	44.63222	-63.52472				
C 115	53401	44.62767	-63.52592				
C 116	53402	44.62864	-63.52244				
C 117	53403	44.62306	-63.51278				
C 117A	53404	44.62400	-63.51267				

INTRODUCTION

For a number of years there have been a wide variety of research studies of the marine area in Halifax Inlet, (Hargrave and Lawrence, 1989). These previous studies have included analyses of some physical oceanographic data, studies of biological productivity, and stratigraphic analyses of some sediment cores and acoustic profile records. Few of these previous studies were systematic, in that they included comprehensive data from the entire Inlet. Virtually none of the previous studies contained any systematic data on the composition of the bottom sediments in the Harbour, Bedford Basin, and the approaches to the Harbour.

Beginning in 1986 efforts were made to correct this deficiency in chemical and sedimentological data from Halifax Inlet, (Prouse and Hargrave, 1987). Samples collected (102) in 1986 were analyzed for organic carbon, C/N content, redox potential, and oxygen uptake, but no elemental or metal analyses were undertaken at that time. In 1988 a systematic sampling program was undertaken under the Environment Canada, Integrated Effects Monitoring Program. This operation provided two additional sets (for a total of 350 samples) of bottom sediments samples collected from throughout Halifax Inlet.

Subsamples of the 1986 and 1988 sets of samples were provided to the Geochemistry Group of the Atlantic Geoscience Centre for comprehensive geochemical and sedimentological analyses, in 1988. These sets are designated by the sample numbers prefixed by the letters "B", "C" and "P" in this data report. We analyzed 220 individual samples from samples sets "B" and "C" and 54 samples from set "P".

This report contains the results of analyses that are intended to show some aspects of the major element and minor metal content of the sediments, together with the carbonate content, organic

carbon content, oxidation state and the textural characteristics of the sediments. Metal analyses included total metals (Si, Al, Mg, K, Ti, Li, Fe, Mn, Ca, Cu, Zn, Ni, Cr, Pb, Cd and Hg), potential labile metal partitioning (Fe, Mn, Ca, Cu, Zn, Ni, Pb and Cr), and organically bound metal (Fe, Mn, Cu, Zn, Ni, Cr and Pb). These data are results of the Phase I study of the geochemical characteristics. Results from later studies include analyses of core samples which are reported in LeBlanc et al. (1991) and Buckley et al. (1991).

FIELD METHODS

Sampling

Series "B" sediment samples were collected in 1986 during the period January 22 to July 17 and are described in Prouse and Hargrave (1987). **Series "C"** sediment samples were collected in 1988 during the period August 10 to 18 and described in OceanChem Group (1988). Bottom grab samples were taken with a 0.1 m² Van Veen sampler in 1986 and a 0.25 m² Van Veen sampler in 1988 (Buckley et al. 1989). At each station the Van Veen grab sampler was carefully opened to expose the top oxidized sediment layer. Subsamples of the upper 0.5 to 1.0 cm were removed with a stainless steel spatula and placed in clean pre-weighed scintillation vials for later determination of porosity (% water content). Other subsamples of the upper 2 cm were placed in 150 mL plastic bottles (series "C") or plastic bags (series "B") for later geochemical and grain size analyses (Buckley and Hargrave 1989).

Series "P" sediment samples were also collected in 1988. The "P" set of samples, was collected by a different sampling device (double Shipek Grab) and subsamples were taken to a maximum depth of 6 cm below the original sediment surface. There is some probability that the average concentration of metals in these "P"

series samples may be slightly higher than would be obtained by either the "B" or "C" series samples at the same locality. This is because of the deeper origin of the subsamples taken from the double Shipek grab. Other analyses of high resolution subsamples taken from Eckman box cores and Lehigh cores have demonstrated that highest concentrations of metals are often found at depths of 3 to 10 cm below the surface of the sediments, (LeBlanc et al. 1991).

Shipboard Analyses

Sediment Eh was determined as the oxidation reduction (redox) potential in mv (Prouse and Hargrave, 1987). Sediment was placed in vials as described above and the Eh was determined using a 1 mm platinum electrode (0.2 mm dia.) sealed in the end of teflon tubing (0.3 mm dia.) with epoxy cement. The platinum tip was joined to a silver wire attached to a Radiometer pH meter (M29) by an insulated wire. A calomel reference electrode (Radiometer K401, +256 mv at 5 °C) was used to complete the circuit. Electrodes were standardized in quinhydrone (+275 mv, pH 7.0, 20 °C). A fine abrasive powder (Ajax) on damp filter paper was used for cleaning electrodes. Redox potentials were calculated using the recorded mv readings and adding the value for the reference electrode corrected for ambient temperature. These results were expressed as the log of the inverse concentration of free electrons ($p\epsilon = -\log[M] = Eh/59.16$, where M is the molar concentration) and the precision was estimated to be ± 0.2 .

LABORATORY ANALYSES

Water content was calculated from wet sediment in scintillation vials as the % weight loss on drying at 60 °C for 3 days. The precision for this analysis was $\pm 1.7\%$ and the relative error was 3%.

Sediment grain size analyses was conducted on wet samples using a 2 mm sieve and a 0.063 mm sieve. The sediment fraction with grain size larger than 2 mm was classed as gravel. The fraction between 2 mm and 0.063 mm was classed as sand. The fraction with grain size below 0.063 mm was classed as silt and clay (mud). A Coulter Counter Model TAPII^R (with 30 and 200 μm apertures) was used to determine the silt and clay % fraction in the mud component. Subsamples for Coulter Counter analyses were disaggregated in a 5 % solution of sodium metaphosphate in a ultrasonic bath. The size fraction between 0.063 mm and 0.004 mm was classed as silt and that of less than 0.004 mm was classed as clay.

The sediment samples used for analyses of total carbon, organic carbon, leachable and total metals were freeze dried and disaggregated with an agate mortar and pestle.

Carbon analyses were carried out using a Leco Combustion Carbon Analyzer on 250 mg of dried and disaggregated sediment. Total carbon (C_T in % of dry weight) was determined for washed samples. Organic carbon (C_{org} in % of dry weight) was determined by the same method after removal of inorganic carbon by treatment with 1 M HCl. For both types of determinations, a series of Leco Corporation calibration standards were analyzed. These carbon in steel standards ranged from 0.127 to 0.897 percent carbon. One standard was determined after every 5 or 6 samples had been analyzed. The precision of repeated determinations of the

standards was found to be: 0.127 ± 0.003 ; 0.164 ± 0.004 ; 0.357 ± 0.005 ; 0.417 ± 0.005 ; 0.897 ± 0.010 . The relative error of repeated analyses is therefore estimated to be better than 2 %. The CaCO_3 content was computed from the difference between C_T and C_{org} .

The sequential leach analyses (Fitzgerald et al, 1987) include:

- (1) weak acid leachable metal (Fe_{WA} , Mn_{WA} , Ca_{WA} , Cu_{WA} , Zn_{WA} , Ni_{WA} , Cr_{WA} and Pb_{WA}) in 25 % acetic acid, pH 2 for 16 h, as described in Chester and Hughes (1967).
- (2) hydroxyl amine leachable metal (Fe_{HA} , Mn_{HA} , Ca_{HA} , Cu_{HA} , Zn_{HA} , Ni_{HA} , Cr_{HA} and Pb_{HA}) in 1 M $\text{NH}_2\text{OH-HCl}$ for 16 h, as described in Chester and Hughes (1967).
- (3) heated hydroxyl amine leachable metal (Fe_{HHA} , Mn_{HHA} , Ca_{HHA} , Cu_{HHA} , Zn_{HHA} , Ni_{HHA} , Cr_{HHA} and Pb_{HHA}) in 0.04 M $\text{NH}_2\text{OH-HCl}$, pH 2, at 80 °C for 16 h, as described in Tessier et al (1979).
- (4) leach residue metals with concentrations computed relative to the original mass (Si_R , Al_R , Mg_R , K_R , Fe_R , Mn_R , Ca_R , Cu_R , Zn_R , Ni_R , Cr_R and Pb_R) were determined using the Buckley and Cranston (1971) $\text{HF-H}_3\text{BO}_3$ total decomposition method.

The leach residue dry weight (mg) is reported as "Residue" remaining of the initial 1000 mg of sample. The "weight loss" due to the sequential leaching can be computed as:

$$\text{Weight Loss}(\%) = 100 \times (1000 - \text{Residue} / 1000).$$

The sequential sum (Fe_{SUM} , Mn_{SUM} , Ca_{SUM} , Cu_{SUM} , Zn_{SUM} , Ni_{SUM} , Cr_{SUM} and Pb_{SUM}) was computed as the summation of the sequential leach analyses components (ie, $\text{Fe}_{\text{SUM}} = \text{Fe}_{\text{WA}} + \text{Fe}_{\text{HA}} + \text{Fe}_{\text{HHA}} + \text{Fe}_R$).

Total metal concentration (Si_T , Al_T , Mg_T , K_T , Ti_T , Li_T , Fe_T , Mn_T , Ca_T , Cu_T , Zn_T , Ni_T , Cr_T , Pb_T and Cd_T) was determined using the Buckley and Cranston (1971) $\text{HF-H}_3\text{BO}_3$ total decomposition method.

Metal concentrations which are leached by hydrogen peroxide are considered to be organically bound (MacIntosh et al, 1976). Disaggregated dry sediment (1 g) was leached with 10 % hydrogen peroxide (20 mL) and 25% acetic acid (pH 2) for 24 h. Finally the leachate was decanted into clean test tubes. The acetic acid was necessary to retard the hydrolysis of the metals as they were released from the organic matter. This leach fraction also contained the weak acid leachable metal fraction. The concentrations of metals, which were specifically released from the organic matter by the hydrogen peroxide, were determined as the difference between the results for this hydrogen peroxide leach at pH 2 and the weak acid leach at pH 2. This difference is reported as Fe_{org} , Mn_{org} , Cu_{org} , Zn_{org} , Ni_{org} , Pb_{org} and Cr_{org} .

All leachates and total decomposition samples were analyzed utilizing a Varian PT975 atomic absorption spectrophotometer. All instrumental parameters were as recommend by the manufacturer and appropriate dilutions were carried out for solutions with very high metal concentrations. Large volumes of reagents blanks were prepared for the specific leaches and appropriate blanks were used for sample dilution and for the preparation of standards. This latter precaution helped avoid analytical problems which could be caused by chemical matrix interferences.

An indication of the accuracy and precision of this total elemental analysis method is demonstrated by replicate analyses of standards. Results for the standard samples BCSS1 and MESS1 (NRC, Canada) and MAG1 (USGS) are compared in Table 1. With the exception of the analyses for Ni, and one standard result for Cu, all of the replicate analyses for the 12 elements have a coefficient of variation ($CV = \text{standard deviation} / \text{mean} \times 100$) of less than 10 %. The reason for the high CV for Ni has not been determined, so analytical results for this metal should be used with considerable caution. The CV of 11.1 % for Cu in the BCSS1

standard is almost certainly due to the low level of Cu in this standard, therefore analytical results below 20 ppm should be used with caution.

TABLE 1.

Results for replicate analyses of standard samples.

Standard Sample	Si _T	Al _T	Ca _T	Mg _T	K _T	Ti _T	Fe _T	Mn _T	Cu _T	Zn _T	Ni _T	Li _T
	%	%	%	%	%	%	%	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹
BCSS1												
N	9	9	6	8	8	5	9	8	8	8	8	6
Mean	29.6	5.59	0.54	1.36	1.53	0.407	3.18	246	18	103	39	60
StdDev	0.4	0.29	0.01	0.02	0.09	0.024	0.08	15	2	3	9	5
% CV	1.4	5.2	1.9	1.5	5.9	5.9	2.5	6.1	11.1	2.9	23.1	8.3
Present ¹	30.9	6.26	0.54	1.47	1.80	0.440	3.29	230	18.5	120	55	(20)
% Error	-4.2	-10.7	0	-7.5	-15.0	-7.5	-3.3	7.0	-2.7	-14.2	-29	200
MESS1												
N	9	9	6	8	8	5	9	8	8	8	8	6
Mean	29.6	5.01	0.44	0.73	1.55	0.483	2.86	533	24	172	19	55
StdDev	0.5	0.31	0.02	0.03	0.10	0.036	0.06	20	2	6	10	5
% CV	1.7	6.2	4.5	4.1	6.4	7.5	2.1	3.8	8.3	3.5	52.6	9.1
Present ¹	31.6	5.84	0.48	0.87	1.86	0.543	3.05	510	25	190	30	(60)
% Error	-6.3	-14.2	-8.3	-16.1	-16.7	-11.0	-6.2	4.5	-4.0	-9.5	-37	-8.3
MAG1												
N	9	9	6	8	8	5	9	8	8	8	8	6
Mean	23.2	7.73	0.91	1.73	2.92	0.401	4.71	795	27	130	40	103
StdDev	0.4	0.53	0.02	0.14	0.12	0.030	0.10	19	2	2	11	5
% CV	1.7	6.9	2.2	8.1	4.1	7.5	2.1	2.4	7.4	1.5	27.8	4.9
Present ²	23.9	8.7	0.99	1.89	3.09	0.450	4.88	770	27	135	54	(78)
% Error	-2.9	-11.1	-8.1	-8.5	-5.5	-10.9	-3.5	3.2	0	-3.7	-26	32

¹ Values from Berman (1981).

² Values from Manheim et al. (1976).

Estimates of the relative accuracy error were obtained by comparing our analytically determined mean value with the preferred value published for the standard. Only those results which show relative accuracy error greater than 10 % require some comment. Our analytical method appears to produce Al results that are 10.7 to 14.2 % lower than the results published for the three standards. Our results for Mg content in the MESS1 standard are 16 % lower than the published value. This appears to be caused by the moderately low Mg content and possibly to an unusual matrix effect

in this standard. Our results for K in BCSS1 and MESS1 are 15 and 16.1 % low, respectively. The reason for these results is not readily apparent, although it is suspected to be a matrix effect. Similarly, the relative accuracy error of 11 and 10.9 % low for Ti in the MESS1 and MAG1 standards is unexplained. It should be noted that all of these relative accuracy errors in the analyses of the major elements produces an analytical result which has an absolute error of less than ± 1 %.

The relative accuracy error of -14.2 % for analyses of Zn in the BCSS1 standard is of unknown source. The large negative errors for results of Ni analyses (-29 %) in all standards reinforces the caution in the use of these results. Two large positive errors are recorded for the analysis of Li in the BCSS1 and MAG1 standards. In these cases little significance can be given to this accuracy indication because the published values for Li are uncertified. No evaluation of the accuracy or precision of Pb analyses could be obtained because the published concentrations of Pb in the standards were all below the analytical detection limit (20 ppm) of our method.

Average precision values, for the instrumental analyses for specific metals, were determined from duplicate analyses of solutions which were prepared for the total metal and leachable metal analyses. The precision values are reported in Table 2. In the low concentration ranges the precision can be used to evaluate the analytical detection limits. Under these conditions the analytical detection limit is approximately twice the value for precision. In the higher concentration ranges the average relative error determinations for these metals were used to evaluate the analytical results. As the detection limit is approached the relative error approaches 100 %. The relative error for a specific metal and sample was determined as the percent mean deviation relative to the sample mean. These results were then used to determine the average relative error for a specific metal and are

reported in Table 2. Average precision values for the metals Si, Al, Mg, K, Ti, and Li were determined for narrow concentration ranges and we have not determined the detection limits.

Table 2

Error for instrumental analyses.

Metal	Detection Limit $\mu\text{g}\cdot\text{mL}^{-1}$	Concentration Range $\mu\text{g}\cdot\text{mL}^{-1}$	Precision $\mu\text{g}\cdot\text{mL}^{-1}$	Relative Error %
Fe	10	10 - 1400	± 5	
		4000 - 17000	± 140	2
		29000 - 47000	± 800	2
Mn	0.6	0.6 - 11	± 0.3	
		9 - 100	± 1	2
		250 - 800	± 18	4
Ca	16	16 - 450	± 8	
		500 - 900	± 20	3
		4000 - 9000	± 150	3
Cu	1.2	2 - 180	± 0.6	
		30 - 180	± 0.6	2
Zn	0.4	0.4 - 35	± 0.2	
		6 - 35	± 0.4	3
		50 - 300	± 6	5
Ni	1	1 - 25	± 0.5	
		6 - 30	± 0.5	2
Pb	0.6	0.6 - 8	± 0.3	
		3 - 20	± 0.4	5
		70 - 130	± 1	2
Cr	0.8	1 - 25	± 0.4	
		7 - 40	± 0.4	1
Li		55 - 100	± 5	7
Si		23 - 30 %	± 0.5 %	2
Al		5 - 8 %	± 0.4 %	6
Mg		0.7 - 1.7 %	± 0.05 %	5
K		1.5 - 2.9 %	± 0.1 %	5
Ti		0.4 - 0.5 %	± 0.03 %	7

In an earlier study (Buckley et al 1989) results were reported for analyses of replicate samples and subsamples. The concentrations were in the higher concentration ranges and the % coefficients of variation included variation due to repetitive sampling and sampling inhomogeneity. In the present study we report relative error which includes only the error resulting from duplicate instrumental analyses of sample solutions.

Total mercury (Hg_T) was determined using a flameless cold-vapour atomic absorption spectrometry method adapted from Brandenburg and Bader (1967) and MacIntosh et al (1976). The average precision varied significantly with concentration range: ± 0.005 ppm for range 0.01 to 0.1 ppm, ± 0.04 ppm for range 0.1 to 1 ppm, ± 0.1 ppm for range 1 to 5 ppm, and ± 0.7 ppm for range 5 to 11 ppm. In all concentration ranges the relative error varied from 6 % to 11 %, (Gardiner, 1990).

This report includes a series of 12 maps illustrating geochemical and sedimentological data for the Halifax Inlet system. These maps show variance in concentration for organically bound Mn, Cu, Zn and Pb, labile Mn, Zn and Pb, total Li and Cd, organic carbon, clay and the pe. Other maps portraying the concentrations for mud and total Zn, Cu, Pb and Hg are report in Buckley and Hargrave (1989).

The in this report maps were compiled through a series of computer-aided graphic design steps. Base maps of shoreline and bathymetry were first digitized from published Canadian Hydrographic charts of Bedford Basin, Halifax Harbour, and the Approaches to Halifax Harbour, using a SUPER-TECH program. These data were then merged with some of the geochemical data contained in this report to produce posted maps at 1:25000 scale. Some geological data were also produced in a similar manner to provide underlays for the geochemical data.

The first generation of contoured geochemical maps were produced from hand-contouring of the posted data. Maps of this type were previously released in an earlier data report, (Buckley et al. 1989). The new maps in this report contain additional data and were further processed through computer aided drafting (CAD) systems. The first generation maps were updated with new data and contouring criteria that included the surficial geology. The new contours were digitized to produce initial IBM compatible DXF files. These were converted to DWG files and new 1:25000 scale maps were plotted on a ZETA 836 plotter. The IBM digital files for each metal or geochemical variable were then converted to a Macintosh II Ci computer through an Apple File exchange. These autoCAD files were then edited and saved as DXF files.

The final graphics stages began with taking the DXF files into CAD Mover for rescaling and saving as PICT files. ALDUS Freehand software was used in the Macintosh computer to produce colour compilations of the contoured polygons. Each map was based on differentiation of 6 colour distinctions to represent various geochemical or sedimentological concentration ranges. Black and white conversions were achieved by selecting 6 dot densities to represent a gradation of concentration ranges. Final printing of the grey-tone maps seen in this report was on a Linotronics 300 at 1270 dpi

STN	Fe _{org} μg _g ⁻¹	Fe _{WA} μg _g ⁻¹	Fe _{HA} μg _g ⁻¹	Fe _{HHA} μg _g ⁻¹	Fe _R μg _g ⁻¹	Fe _{SUM} μg _g ⁻¹	Fe _T μg _g ⁻¹	Mn _{org} μg _g ⁻¹	Mn _{WA} μg _g ⁻¹	Mn _{HA} μg _g ⁻¹	Mn _{HHA} μg _g ⁻¹	Mn _R μg _g ⁻¹	Mn _{SUM} μg _g ⁻¹	Mn _T μg _g ⁻¹	ID
B 1	2650	850	573	4260	34200	39883	28800	29	140	7.9	59	836	1043	864	53534
B 2	5660	2640	477	3720	45071	51908	43300	39	19	3.2	57	832	912	677	53535
B 3	12500	1300	897	2720	45429	50346	39700	105	5	11.3	42	788	846	627	53536
B 4	16975	2220	768	3080	40531	46599	44400	146	6	7.9	43	763	819	631	53537
B 5	11080	820	592	3340	36288	41040	37400	52	7	7.1	44	655	713	572	53538
B 6	11830	1670	660	3900	48013	54243	43000	42	12	8.1	51	655	727	596	53539
B 7	1570	930	387	2970	17294	21581	15700	2	35	5.8	37	543	620	610	53540
B 8	8740	4560	454	4760	32570	42344	42600	45	27	4.2	43	536	611	560	53541
B 9	3750	1350	939	3160	37403	42852	33400	11	18	7.6	35	470	530	572	53542
B 10	7610	2590	676	4000	68714	75980	44600	37	21	7.1	49	564	641	643	53543
B 11	10360	8840	1639	5130	60839	76448	64800	24	24	12.4	51	561	648	644	53544
B 12	6780	2620	794	4590	57814	65818	46800	50	23	13.0	54	580	670	629	53545
B 13	9999	4240	1145	4680	58565	68630	54400	13	29	12.1	52	553	646	634	53546
B 14	11510	8390	1730	6120	53358	69598	68300	75	50	15.8	48	594	707	656	53547
B 15	7208	12710	2038	3890	49345	67983	69200	35	37	15.1	46	582	680	624	53548
B 16	12617	5030	1009	4600	46994	57633	55800	98	42	12.1	52	640	746	661	53549
B 17	12930	1670	756	3780	57418	63624	49700	42	20	12.4	48	725	805	588	53550
B 18	12010	3390	974	4350	45973	54687	54000	45	17	10.3	52	684	764	598	53551
B 19	25135	3750	1693	3040	40190	48673	51700	161	7	9.6	41	834	892	663	53552
B 20	5170	830	348	2420	19690	23288	25900	25	10	2.8	29	643	684	300	53553
B 21	1740	160	148	1720	36117	38145	27600	3	8	1.6	23	787	820	531	53554
B 22	.	3120	955	4330	33062	41467	53800	.	17	8.2	51	526	602	608	53555
B 23	8320	6780	1546	4890	29680	42896	55000	176	66	45.4	63	550	725	679	53556
B 24	16350	6050	1509	4930	32860	45349	58800	52	27	11.3	49	652	740	553	53557
B 25	14850	2350	1114	4750	46803	55017	55100	274	75	72.4	74	756	978	753	53558
B 26	5810	1190	506	4150	28846	34692	36800	45	37	12.1	51	598	698	609	53559
B 27	6820	2180	651	3710	28739	35280	47100	25	16	11.2	48	491	566	628	53560
B 28	7485	3090	841	4520	32343	40794	50600	65	29	15.6	55	552	652	682	53561
B 29	2090	2410	322	2620	22833	28185	21900	17	27	9.7	42	741	820	764	53562
B 30	11260	7640	1389	4130	42454	55613	57500	62	44	13.6	53	595	705	682	53563
B 31	5952	8080	1200	3240	33235	45755	54200	19	18	12.8	46	475	552	622	53564
B 32	2160	440	209	1890	55479	58018	20500	8	7	3.6	27	524	561	434	53565
B 33	12200	1600	775	3270	59488	65133	49700	21	12	10.4	50	383	455	670	53566
B 34	11910	2690	553	2660	43744	49647	36400	59	13	8.0	48	438	507	605	53567
B 35	2020	2180	473	3570	26361	32584	23600	24	56	8.5	42	504	610	809	53568
B 36	13950	3850	912	3550	49066	57378	46700	213	75	35.4	63	464	637	1059	53569
B 37	8640	3260	1117	5140	50089	59606	52100	21	24	12.7	56	371	464	682	53570
B 38	9549	3740	1241	5090	25500	35571	51800	0	28	10.4	53	361	452	672	53571
B 39	4290	1710	545	4570	33042	39867	38000	27	99	12.5	54	401	567	706	53572
B 40	7340	2460	904	3690	50574	57628	48800	50	21	12.0	47	347	427	657	53573
B 41	1020	580	165	1360	13076	15181	16300	0	19	3.9	22	105	150	123	53574
B 42	11020	5280	1108	3730	42138	52256	52300	51	13	9.7	48	406	476	705	53575
B 43	2960	1940	679	3040	25187	30846	36300	7	14	7.7	43	441	506	609	53576
B 44	2320	5280	452	3100	50133	58965	45800	43	53	8.5	41	305	407	512	53577
B 45	3410	1390	250	2620	42728	46988	32800	4	35	11.8	47	357	451	609	53578
B 46	9720	3580	935	4180	48139	56834	51100	59	27	8.1	43	372	450	673	53579
B 47	9590	2710	683	3780	31392	38565	48600	22	15	9.0	53	346	423	621	53580
B 48	5190	1810	648	4040	41346	47844	39500	33	29	6.8	45	353	434	609	53581
B 49	.	2400	816	3670	39634	46520	57000	.	10	4.8	46	279	340	692	53582
B 50	9610	12990	1463	3710	42787	60950	63300	0	309	18.5	44	418	789	1046	53583
B 51	4060	2040	286	2460	22639	27425	28600	1	17	5.4	39	279	340	437	53584
B 52	14530	2070	724	2930	30601	36325	51000	69	8	7.4	49	471	535	3049	53585
B 53	5000	1600	549	3290	69278	74717	37300	10	21	6.8	48	543	619	720	53586
B 54	14410	2090	646	3440	83692	89868	46200	61	7	9.0	53	429	498	839	53587
B 55	5430	2070	603	3530	66134	72337	38200	24	13	8.5	53	427	502	679	53588
B 56	9810	2790	853	4050	65495	73188	44300	51	15	8.1	55	381	459	669	53589
B 57	11670	3330	783	3890	47106	55109	47300	47	15	10.9	59	405	490	688	53590
B 58	14520	2280	794	3570	61512	68156	44300	63	12	10.2	52	540	614	673	53591
B 59	11970	2430	815	3940	58618	65803	45700	47	9	11.2	61	382	463	689	53592
B 60	10380	920	628	3680	63664	68892	43900	48	9	12.7	57	696	775	1292	53593

STN	Fe _{org} μg ⁻¹	Fe _{WA} μg ⁻¹	Fe _{HA} μg ⁻¹	Fe _{HHA} μg ⁻¹	Fe _R μg ⁻¹	Fe _{SUM} μg ⁻¹	Fe _T μg ⁻¹	Mn _{org} μg ⁻¹	Mn _{WA} μg ⁻¹	Mn _{HA} μg ⁻¹	Mn _{HHA} μg ⁻¹	Mn _R μg ⁻¹	Mn _{SUM} μg ⁻¹	Mn _T μg ⁻¹	ID
B 61	9900	4300	891	4070	65835	75096	51100	46	10	10.7	59	516	596	724	53594
B 62	11280	3320	1004	4200	53688	62212	45800	50	17	12.0	62	380	471	691	53595
B 63	6750	2150	582	4170	44337	51239	42700	26	19	10.6	58	524	612	682	53596
B 64	8350	2050	679	4350	49909	56988	42100	47	18	14.5	67	525	625	699	53597
B 65	8420	2280	878	3890	39658	46706	40100	41	20	17.5	59	406	503	723	53598
B 66	10580	1920	560	3800	60538	66818	46000	45	14	10.8	60	392	476	698	53599
B 67	9680	4620	1788	4770	52772	63950	46100	37	19	16.4	63	452	550	598	53600
B 68	9980	2620	1196	4390	50369	58575	42900	48	27	18.2	65	639	749	712	53601
B 69	7920	3080	993	4180	45072	53325	41800	47	32	17.8	66	605	721	741	53602
B 70	8270	8330	2611	6080	59750	76771	59100	22	30	18.8	63	365	477	719	53603
B 71	9560	840	589	3740	52448	57617	38000	57	12	15.7	65	604	697	724	53604
B 72	9230	2870	1207	3700	44356	52133	41500	59	26	18.7	61	492	598	758	53605
B 73	5140	1860	1046	3930	56144	62980	44600	41	18	16.5	61	507	603	707	53606
B 74	6610	3190	1111	4200	76110	84611	41600	45	34	17.5	63	455	569	721	53607
B 75	5170	1430	777	3330	21340	26877	19500	54	22	17.7	58	401	498	614	53608
B 76	3520	1280	488	2730	13239	17737	29700	22	23	12.4	51	390	476	720	53609
B 77	7270	3130	984	4220	24789	33123	40500	29	35	15.3	64	419	533	727	53610
B 78	7460	3440	995	4470	26994	35899	46700	16	34	16.1	66	434	550	781	53611
B 79	3970	1630	671	3070	14514	19885	20700	16	61	20.4	62	431	574	693	53612
B 80	5060	1340	634	3550	19096	24620	27700	25	23	17.9	66	451	558	662	53613
B 81	4480	620	511	3410	19159	23700	24800	24	15	22.7	68	452	558	658	53614
B 82	1320	680	300	2280	11242	14502	13900	35	32	15.1	50	398	495	608	53615
B 83	5520	1280	625	3770	43146	48821	34700	46	27	15.7	67	611	721	721	53616
B 84	5500	4500	644	2950	37895	45989	41700	60	45	16.1	66	490	617	762	53617
B 85	5230	1770	594	3490	42234	48088	34900	43	31	16.2	66	540	653	747	53618
B 86	8270	2330	850	3360	42418	48958	37900	60	38	15.2	66	520	639	764	53619
B 87	4220	1680	695	3710	37022	43107	30200	29	38	14.8	65	582	700	751	53620
B 88	2160	640	353	3700	34309	39002	20800	22	32	14.1	60	632	738	717	53621
B 89	2830	770	339	3600	33955	38664	47900	27	38	17.3	62	581	699	639	53622
B 90	4290	910	396	3810	32747	37863	34600	27	34	14.6	60	544	652	635	53623
B 91	8479	1800	647	2810	38033	43290	28200	32	5	5.7	45	676	731	766	53624
B 92	17950	2050	975	4240	60902	68167	24500	63	4	8.6	56	581	650	711	53625
B 93	9880	2120	802	3830	53236	59988	44300	34	5	7.1	55	616	683	637	53626
B 94	13920	6080	1487	3870	54451	65888	52300	92	12	10.9	53	562	638	643	53627
B 95	8220	1080	560	3820	54110	59570	35200	53	15	14.4	65	906	1001	958	53628
B 96	8430	1070	554	3960	51737	57321	34700	51	16	14.2	66	844	940	875	53629
B 97	4680	2420	559	3510	32507	38996	29700	58	47	15.5	65	529	656	711	53630
B 98	690	410	190	2170	21056	23826	14100	17	32	9.7	45	683	770	729	53631
B 99	360	240	252	2730	24915	28137	18000	34	34	15.2	55	626	730	754	53632
B 100	2490	2610	629	3010	31444	37693	28600	69	40	15.8	64	536	656	701	53633
B 101	.	340	248	1890	19891	22369	15100	.	44	16.6	45	538	644	717	53634
B 102	.	390	292	2480	21033	24195	16200	.	39	17.3	55	547	658	774	53635
C 1	1414	3486	360	2865	56368	63079	38300	45	15	5.0	53	759	832	696	53301
C 2	6431	2569	395	2854	44741	50559	43500	60	10	3.3	51	608	672	708	53302
C 3	3371	4029	474	3153	52368	60024	46100	44	9	2.8	51	633	696	658	53303
C 4	4747	4453	408	3000	47478	55339	43700	43	16	2.9	47	345	411	663	53304
C 5	1187	1113	347	2495	38500	42455	22200	20	13	1.9	34	635	684	636	53305
C 6	7763	3937	358	2679	68628	75602	49100	73	9	3.2	49	672	733	682	53306
C 7	0	4717	336	2233	42439	49725	39100	34	24	3.4	39	506	572	619	53307
C 8	5454	3246	367	2272	57987	63872	45700	53	20	3.5	41	680	745	664	53308
C 9	4901	3599	395	2567	53460	60021	45200	94	9	2.6	43	610	665	642	53309
C 10	1055	5745	616	2476	50974	59811	50300	44	22	5.1	44	501	572	656	53310
C 11	1174	1726	367	2562	36223	40878	22800	14	22	2.5	35	570	630	499	53311
C 12	3546	2854	618	4302	44131	51905	38200	25	21	2.7	33	481	537	507	53312
C 13	5328	7272	1214	5505	54353	68344	53000	53	35	6.7	53	558	653	650	53313
C 14	4031	2569	512	3639	53264	59984	36700	38	32	5.1	46	468	551	563	53314
C 15	3180	5720	967	5515	51984	64186	45900	25	40	5.4	44	469	558	605	53315
C 16	14929	4171	522	2774	49742	57209	42000	146	3	1.9	40	629	674	606	53316
C 17	5450	3850	420	2665	50843	57778	44800	87	10	1.7	39	528	579	574	53317
C 18	6440	11860	1420	5188	66088	84556	58500	70	61	9.3	45	588	703	655	53318

STN	Fe _{org}	Fe _{WA}	Fe _{HA}	Fe _{HHA}	Fe _R	Fe _{SUM}	Fe _T	Mn _{org}	Mn _{WA}	Mn _{HA}	Mn _{HHA}	Mn _R	Mn _{SUM}	Mn _T	ID	
	μg g ⁻¹	μg g ⁻¹	μg g ⁻¹	μg g ⁻¹	μg g ⁻¹	μg g ⁻¹	μg g ⁻¹	μg g ⁻¹	μg g ⁻¹	μg g ⁻¹	μg g ⁻¹	μg g ⁻¹	μg g ⁻¹	μg g ⁻¹		
C 19	2215	2385	596	4054	59598	66633	44100	33	23	6.1	58	604	691	616	53319	
C 20	7491	6309	1234	6711	52918	67172	53800	47	39	6.2	58	471	574	626	53320	
C 21	4895	9805	1629	5219	62475	79128	66400	38	56	8.9	59	537	660	692	53321	
C 22	19600	11000	2333	9111	40193	62637	81200	69	134	15.7	78	373	601	778	53322	
C 23	4437	6163	869	3442	52232	62706	52400	55	51	7.1	49	656	763	699	53323	
C 24	3110	13490	1050	2292	50548	67380	60400	97	59	7.3	46	476	588	675	53324	
C 25	2235	5365	1153	.	.	.	54600	28	26	4.8	.	.	.	676	53325	
C 26	8660	12640	1487	5032	51051	70210	59100	88	97	12.8	35	522	667	755	53326	
C 27	1648	3152	644	2718	48026	54540	41200	24	29	4.4	38	611	683	637	53327	
C 29	8610	1890	466	3171	47420	52947	45900	75	17	6.8	43	451	518	545	53328	
C 30	9022	3978	823	4530	55774	65105	47700	64	36	4.5	38	671	749	692	53329	
C 31	4598	1402	780	6525	73484	82191	55200	37	53	4.7	38	839	934	906	53330	
C 32	3555	3045	698	4867	66691	75301	50500	33	51	3.9	36	881	972	957	53331	
C 33	3288	2212	800	5902	88889	97803	56900	35	77	6.1	41	907	1031	877	53332	
C 34	1430	9970	484	3187	60089	73730	54400	36	17	3.0	44	643	707	688	53333	
C 35	32200	571	53334
C 36	5226	1474	260	2181	54747	58662	39900	20	5	2.5	30	541	579	618	53335	
C 37	3887	1713	392	1691	73333	77129	40300	19	3	2.7	23	557	586	606	53336	
C 38	2663	1637	331	1978	64831	68777	39100	11	5	2.9	30	662	700	572	53337	
C 39	11974	8526	519	2434	56260	67739	46300	90	10	3.7	37	547	598	597	53338	
C 40	2976	3724	210	2187	41338	47459	37200	19	8	2.9	42	469	522	655	53339	
C 42	4133	8467	376	1755	33569	44167	33300	54	10	2.7	31	551	594	605	53340	
C 43	3719	1381	144	2098	49639	53262	36600	33	4	1.6	30	939	974	1030	53341	
C 44	3911	1289	112	1732	35154	38287	31700	27	16	3.8	28	976	1024	535	53342	
C 45	1734	2066	239	2521	46842	51668	37200	21	7	3.2	43	792	845	720	53343	
C 46	10798	3302	947	5474	58752	68475	60700	52	15	3.2	37	884	939	795	53344	
C 47	2255	1445	261	2512	51301	55519	36000	21	12	2.4	37	725	776	622	53345	
C 48	10235	4665	446	2980	52260	60351	39600	48	9	2.4	44	656	711	579	53346	
C 49	16612	3588	363	2559	75246	81756	53400	77	12	4.1	40	761	817	697	53347	
C 50	9162	4138	584	3046	54678	62446	43700	54	12	3.5	44	559	618	656	53348	
C 51	6670	11230	688	1985	38070	51973	45300	48	12	3.2	33	461	509	531	53349	
C 52	6048	3252	205	1890	57707	63054	41100	22	5	2.0	29	450	486	382	53350	
C 53	7470	1930	197	2247	55799	60173	37800	42	7	2.3	38	498	545	622	53351	
C 54	10390	2610	356	3050	51840	57856	41500	57	11	3.5	50	506	570	642	53352	
C 55	3460	4940	437	2638	59943	67958	41200	33	9	3.9	43	585	641	643	53353	
C 56	11080	3720	671	3026	56470	63887	40300	74	23	4.9	44	468	540	660	53354	
C 57	2330	5970	380	2478	47819	56647	43900	45	28	5.7	48	483	564	677	53355	
C 58	9790	4110	650	2956	59673	67389	40400	64	26	5.7	45	538	614	642	53356	
C 59	4700	7000	705	3091	63458	74254	47900	41	17	3.8	42	590	653	639	53357	
C 60	5710	8090	893	2195	52288	63466	44700	49	10	4.7	34	576	625	671	53358	
C 61	2330	6670	560	3095	28312	38637	46600	40	29	6.0	43	376	454	671	53359	
C 62	7720	2380	536	3415	68628	74959	41300	60	21	6.0	51	774	852	703	53360	
C 63	2820	8780	483	2394	27829	39486	45300	64	13	4.4	46	425	488	683	53361	
C 64	4270	12930	581	2294	31185	46990	44400	58	11	2.8	29	425	468	503	53362	
C 65	6250	2650	313	2564	40917	46444	37100	44	10	2.5	40	641	694	634	53363	
C 66	7180	2420	413	3361	38746	44940	33100	66	30	5.2	51	543	629	633	53364	
C 67	2350	5750	665	2978	64671	74064	40700	40	25	6.5	48	580	659	696	53365	
C 68	3270	9330	1616	4111	35995	51052	47500	54	24	5.4	32	529	590	609	53366	
C 69	420	380	76	1899	45212	47567	28100	8	20	3.5	30	851	904	820	53367	
C 70	2590	2110	462	3287	43819	49678	33500	38	34	6.8	54	635	730	743	53368	
C 71	180	1320	201	2270	26372	30163	20500	12	25	3.6	38	507	573	711	53369	
C 72	38700	535	53370
C 73	5200	6700	706	2392	52259	62057	45300	43	12	3.7	43	592	650	633	53371	
C 74	10720	7880	800	2747	40146	51573	46900	62	10	3.6	44	534	592	637	53372	
C 75	4590	6410	542	2431	53359	62742	51400	54	5	2.8	41	582	631	609	53373	
C 76	14580	2920	1040	3956	49202	57118	49400	46	9	2.4	26	512	549	525	53374	
C 77	8630	1770	401	2618	61282	66071	42800	68	7	4.6	52	792	855	746	53375	
C 78	9890	4610	592	2299	47611	55112	37900	49	14	4.2	44	610	672	580	53376	
C 79	3080	1920	321	3050	52597	57888	35600	47	36	6.8	62	774	879	806	53377	
C 80	1380	520	283	2830	34820	38453	22000	31	34	6.4	56	750	846	757	53413	

STN	Fe _{org} μg ⁻¹	Fe _{WA} μg ⁻¹	Fe _{HA} μg ⁻¹	Fe _{HHA} μg ⁻¹	Fe _R μg ⁻¹	Fe _{SUM} μg ⁻¹	Fe _T μg ⁻¹	Mn _{org} μg ⁻¹	Mn _{WA} μg ⁻¹	Mn _{HA} μg ⁻¹	Mn _{HHA} μg ⁻¹	Mn _R μg ⁻¹	Mn _{SUM} μg ⁻¹	Mn _T μg ⁻¹	ID	
C 81	120	1080	242	2070	28706	32098	17000	14	15	3.4	46	556	621	713	53414	
C 82	0	350	84	1620	26786	28840	12800	7	50	3.6	45	631	730	877	53415	
C 83	730	970	263	2790	35913	39936	21500	28	44	5.3	56	767	873	675	53416	
C 84	200	600	146	2173	22825	25744	15600	23	47	6.4	53	587	693	730	53378	
C 85	2120	1380	272	2575	35734	39961	21100	37	43	9.4	62	561	675	686	53379	
C 86	430	470	121	2176	21925	24692	15000	28	45	6.2	52	576	679	736	53380	
C 87	0	230	44	1610	18907	20791	14700	22	35	5.8	52	894	987	1204	53381	
C 89	0	270	41	1249	11132	12692	13400	0	26	1.2	19	263	309	587	53382	
C 90	0	340	69	1850	23461	25720	17300	27	48	5.5	58	1601	1713	1763	53383	
C 91	0	440	101	1781	22196	24518	12900	0	15	0.7	16	243	275	226	53384	
C 92	0	500	113	1806	21838	24257	13400	18	53	7.5	47	507	615	521	53385	
C 95	0	170	26	1050	6848	8094	4900	0	13	0.1	16	77	106	140	53386	
C 96	0	600	36	1237	13114	14987	9000	0	30	2.9	29	175	237	403	53387	
C 96A	3060	3140	373	2872	26108	32493	25100	38	16	4.6	51	421	493	535	53388	
C 97	0	120	39	1184	6505	7848	4600	0	8	1.5	14	65	89	193	53389	
C 98	260	640	113	2009	15174	17936	13300	27	48	6.9	50	462	567	665	53390	
C 100	0	320	45	1269	7319	8953	5200	0	20	0.5	22	103	146	135	53391	
C 101	370	530	127	1895	18444	20996	14600	30	58	6.0	50	470	584	697	53392	
C 106	70	330	101	1547	15154	17132	14100	23	37	5.1	50	909	1001	889	53393	
C 108	9190	2410	561	3228	29848	36047	33500	67	26	4.4	59	562	651	657	53394	
C 109	4820	1080	181	2125	27331	30717	17900	44	10	2.2	44	608	664	661	53395	
C 110	10600	4400	598	3213	44959	53170	43500	84	21	6.2	68	626	721	695	53396	
C 111	750	250	157	2604	292248	295259	27600	1	7	0.8	27	1325	1360	561	53397	
C 112	10560	3040	562	3692	38894	46188	37700	72	26	4.2	59	591	680	665	53398	
C 113	5040	3860	701	4410	34922	43893	42100	63	40	6.4	64	553	663	751	53399	
C 114	12190	9910	1787	12250	110432	134379	141500	66	33	4.8	43	594	675	647	53400	
C 115	.	3880	634	4520	49245	58279	41000	.	28	5.8	64	597	695	642	53401	
C 116	.	5790	1180	6070	71574	84614	63700	.	19	3.3	53	593	669	641	53402	
C 117	7558	2520	498	3010	40538	46566	31400	39	8	3.6	53	532	597	637	53403	
C 117A	.	7070	502	2860	24613	35045	31800	.	20	5.7	52	442	520	570	53404	
C 118	4790	910	318	3290	32832	37350	28100	69	19	5.2	65	667	756	686	53405	
C 119	.	2710	374	2950	25854	31888	28200	.	19	4.5	60	593	677	653	53406	
C 120	5240	760	186	2690	48543	52179	28700	88	17	8.1	65	711	801	661	53407	
C 121	3300	1900	411	3000	39309	44620	24500	49	23	5.3	58	619	705	605	53408	
C 122	1700	1100	247	2820	28562	32729	17200	25	13	3.2	47	640	703	540	53409	
C 123	550	350	77	2250	19341	22018	14300	28	17	4.7	45	838	905	649	53410	
C 124	2756	2680	313	2680	23547	29220	20800	44	33	5.9	57	667	763	620	53411	
C 125	140	160	72	1620	22712	24564	15500	41	36	5.3	52	1164	1258	1308	53412	
C 126	0	170	53	1470	23075	24768	12500	20	17	3.2	35	794	849	607	53417	
C 131A	0	220	105	2020	57045	59390	17800	0	86	24.3	39	890	1040	1017	53418	
P 1	970	2130	563	2510	3	5206	20500	27	47	3.5	28	270	349	559	53419	
P 6	2035	360	445	2250	2	3057	21600	12	16	1.6	23	348	388	500	53424	
P 12	46500	717	53430
P 28	7820	780	314	1880	2	2976	26500	25	4	2.3	27	343	376	480	53445	
P 29	0	19930	1273	3050	3	24256	58100	81	106	11.8	34	372	524	649	53446	
P 31	11731	6690	1642	3510	3	11845	58600	59	32	6.0	35	401	474	579	53448	
P 32	7000	3000	932	3200	3	7135	41900	0	20	5.9	36	366	428	493	53449	
P 42	.	8440	1847	4830	3	15120	52700	.	69	6.0	28	309	412	522	53457	
P 44	250	6950	1004	3320	3	11277	37000	39	38	7.1	34	390	469	454	53459	
P 47	910	10090	1037	4060	3	15190	47000	73	66	9.8	39	480	595	678	53462	
P 49	5713	7190	1656	5030	2	13878	45000	51	62	5.7	30	389	487	585	53464	
P 55	.	9240	1744	4280	6	15270	54600	.	35	4.6	34	496	569	585	53470	
P 57	2740	8260	1102	3150	3	12515	45700	51	26	3.4	30	401	461	602	53494	
P 63	5530	1970	475	3070	3	5518	45900	37	11	4.7	37	435	488	607	53473	
P 69	8210	3590	985	3300	3	7878	44800	39	18	5.2	38	410	471	586	53479	
P 73	0	2590	702	2820	6	6118	30700	7	26	9.4	22	280	337	358	53483	
P 76	6223	10710	2208	5330	5	18253	54600	52	59	7.3	36	312	415	610	53486	
P 84	0	390	94	1290	3	1777	20400	0	9	0.8	12	285	306	439	53493	
P 99	2850	6750	431	3000	5	10186	39700	45	9	2.7	36	492	540	575	53506	
P 103	5580	2020	329	2880	2	5231	21600	34	24	3.4	34	268	329	424	53510	

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P 104	4760	1940	1120	3830	3	6893	38100	25	13	2.5	33	413	461	592	53511
P 106	8120	5780	1080	3510	5	10375	39200	43	9	3.1	38	442	492	544	53513
P 107	6210	690	347	2940	4	3981	29800	28	7	2.9	36	493	539	670	53514
P 108	9900	1700	479	3150	3	5332	43200	35	11	3.8	35	407	456	493	53515
P 111	11760	3340	971	3720	7	8038	45500	51	19	6.0	44	752	821	611	53518
P 115	7630	3070	958	3230	3	7261	37800	63	21	5.0	36	532	594	682	53522
P 116	7890	2510	1709	3950	5	8174	41500	53	15	4.8	36	491	547	547	53523
P 118	11280	4950	1902	3980	5	10837	44500	61	26	4.3	36	477	543	574	53525
P 123	4820	6480	1059	3140	5	10684	43100	58	25	6.3	40	666	737	587	53530
P 126	4370	6430	534	2780	6	9750	37000	50	33	8.3	39	639	719	579	61202
P 129	3750	5850	823	3280	3	9956	39200	49	34	7.0	41	398	480	611	61205
P 135	2460	5040	462	2970	4	8476	37600	43	39	7.1	39	467	553	685	61211
P 137	0	6210	811	3290	2	10313	40300	51	54	11.6	43	420	528	655	61213
P 147	290	1610	411	2800	11	4832	48700	7	43	5.7	36	635	720	563	61223
P 152	6294	6460	448	2690	3	9601	42900	52	18	5.2	36	464	523	664	61225
P 153	.	6960	549	2810	5	10324	41800	.	19	5.6	36	649	710	597	61226
P 154	.	6120	413	2960	5	9498	43000	.	14	4.3	37	567	622	603	61227
P 155	.	6210	435	2860	5	9510	44600	.	16	4.7	35	519	574	603	61228
P 156	10190	7810	596	2790	5	11201	49400	62	16	5.0	34	418	473	603	61229
P 157	.	7990	652	2780	3	11425	41900	.	19	4.5	32	380	435	527	61230
P 158	11230	4670	1978	3820	3	10471	43300	54	16	3.1	31	399	449	509	53532
P 159	.	7220	733	2450	3	10406	46100	.	7	3.8	31	406	448	501	53533
P 160	11725	4430	376	2560	7	7373	45400	48	11	3.0	27	386	427	430	61231
P 170	.	10460	1089	3040	5	14594	41600	.	40	9.3	39	539	628	589	61239
P 172	0	270	11	930	3	1214	12600	0	2	0.2	11	614	627	513	61241
P 173	0	14550	1504	6840	11	22905	78800	21	25	7.6	41	718	791	573	61242
P 177	3010	3590	1736	4180	5	9511	35300	48	41	8.4	46	629	725	584	61246
P 190	4792	2930	1416	4200	6	8552	36200	51	26	4.6	40	717	788	618	61255
P 201	3840	460	446	3180	7	4093	25900	30	36	6.7	42	716	800	663	61261
P 209	290	410	147	2120	3	2680	13700	13	11	3.3	35	596	645	587	61269
P 217	3940	2760	402	3490	4	6656	24600	49	18	6.9	51	685	761	541	61277
P 218	3460	3940	416	2590	4	6950	25000	44	15	6.1	45	632	698	508	61278
P 222	2600	600	370	2420	2	3392	17000	36	5	3.7	40	477	525	477	61282
P 228	0	380	40	870	3	1293	10600	19	44	4.4	25	620	694	490	61288

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B 1	1780	44	114	2038	3976	0.32	14	7.2	0.2	2.2	27	37	37	53534
B 2	1880	87	167	1874	4008	0.47	34	1.7	0.3	2.7	41	46	55	53535
B 3	3030	340	264	1409	5043	0.47	34	0.7	0	0.4	49	50	50	53536
B 4	3890	475	247	1522	6134	0.58	43	0.5	0	0.5	51	52	54	53537
B 5	2520	313	239	1642	4714	0.50	23	1.4	0	0.6	41	43	46	53538
B 6	2600	277	242	1837	4956	0.54	42	2.8	0.3	1.2	50	54	63	53539
B 7	1130	124	125	1190	2569	0.21	12	4.3	0.2	1.4	15	21	23	53540
B 8	2250	284	168	1250	3952	0.39	42	6.9	1.2	2.7	44	55	66	53541
B 9	3310	262	167	1844	5583	1.54	37	5.7	1.7	2.2	40	49	70	53542
B 10	3820	304	222	1358	5704	0.51	77	16.9	2.6	3.0	86	109	126	53543
B 11	4370	492	266	1644	6772	0.52	70	1.4	2.2	3.0	96	102	110	53544
B 12	3030	388	241	1462	5121	0.52	65	6.6	1.8	1.9	73	83	94	53545
B 13	2970	678	262	1490	5400	0.58	48	9.5	1.9	1.4	71	83	94	53546
B 14	3380	593	253	1366	5592	0.64	73	1.9	1.2	2.9	86	92	103	53547
B 15	3140	519	237	1338	5234	0.56	72	0.2	0.2	2.7	107	110	119	53548
B 16	3920	528	271	1171	5890	0.71	83	7.1	2.3	4.4	87	101	113	53549
B 17	3510	570	424	1507	6011	0.70	40	6.0	0.6	0.7	64	71	83	53550
B 18	3540	662	299	1191	5692	0.67	76	13.9	3.2	2.3	110	130	146	53551
B 19	2700	477	268	879	4324	0.52	98	0.7	0	0.3	120	121	221	53552
B 20	1230	120	123	1670	3143	0.24	47	6.8	1.8	1.2	47	56	67	53553
B 21	1100	100	151	1509	2860	0.39	8	3.2	0	1.2	17	21	29	53554
B 22	3330	397	257	776	4760	0.52	72	18.2	1.8	1.3	76	98	107	53555
B 23	2360	1304	477	880	5021	0.55	7	2.0	1.0	3.4	84	90	111	53556
B 24	1960	421	276	946	3603	0.53	82	4.4	2.6	6.6	89	103	106	53557
B 25	2210	2081	1445	2390	8126	0.64	491	4.9	0.2	1.4	1452	1458	1913	53558
B 26	4290	461	226	1939	6916	0.64	44	4.1	1.0	0.9	56	62	65	53559
B 27	2120	244	201	1999	4564	0.53	59	7.7	1.5	1.3	52	62	100	53560
B 28	3370	570	358	2740	7038	0.88	66	10.5	1.7	1.7	85	99	116	53561
B 29	1620	111	210	1376	3317	0.29	48	1.8	0.8	4.8	46	53	58	53562
B 30	3810	615	264	1197	5886	0.58	86	1.9	2.0	3.5	122	129	123	53563
B 31	3310	797	246	1720	6073	0.64	96	1.0	0.6	3.0	117	122	129	53564
B 32	1160	482	156	1834	3632	0.38	21	4.9	0.4	1.9	30	37	45	53565
B 33	2920	440	320	1498	5178	0.50	86	11.8	2.4	1.8	106	122	134	53566
B 34	6330	463	302	1257	8352	0.40	92	0	0	0.4	69	69	79	53567
B 35	1900	157	125	1454	3636	0.34	37	1.0	0.9	3.0	54	59	48	53568
B 36	4020	1001	741	1703	7465	1.22	38	0	0	0.5	60	61	64	53569
B 37	3200	498	238	1688	5624	0.57	71	6.9	2.4	2.1	90	101	120	53570
B 38	3480	425	201	1350	5456	0.51	48	6.4	2.0	1.3	71	80	89	53571
B 39	22370	689	212	1798	25069	2.16	41	1.9	0.7	1.5	54	58	73	53572
B 40	3260	477	249	1642	5628	0.55	83	7.2	2.0	1.8	91	102	124	53573
B 41	5200	266	319	934	6719	0.19	7	0	0	1.9	12	14	18	53574
B 42	2140	388	221	1564	4313	0.47	122	2.3	4.0	5.4	121	133	152	53575
B 43	1840	220	183	1585	3828	0.35	70	13.5	3.3	3.6	89	110	188	53576
B 44	22950	660	269	1612	25491	4.76	57	2.9	1.4	3.2	64	72	70	53577
B 45	21160	967	464	2316	24907	5.77	52	5.0	1.5	3.0	75	84	82	53578
B 46	3200	408	209	1913	5730	0.49	102	6.8	3.9	4.6	124	139	151	53579
B 47	2750	390	247	1775	5162	0.50	78	6.6	1.9	3.0	94	105	120	53580
B 48	1790	204	156	1965	4115	0.36	46	8.5	2.2	2.4	62	75	99	53581
B 49	3490	414	224	1164	5292	0.42	.	16.1	2.4	2.0	68	88	113	53582
B 50	10630	379	391	3800	15200	0.52	152	0.7	0	3.9	183	187	146	53583
B 51	16060	1054	294	1370	18778	4.09	41	3.0	1.1	3.0	50	57	71	53584
B 52	1740	287	240	1896	4163	0.28	154	14.6	2.9	2.8	166	186	221	53585
B 53	1660	189	178	1613	3640	0.24	83	12.3	4.9	3.8	84	105	116	53586
B 54	1630	311	279	2135	4355	0.30	150	4.9	4.6	5.7	184	199	192	53587
B 55	2250	224	187	2150	4811	0.24	78	8.1	3.4	3.7	77	92	103	53588
B 56	2720	293	201	2057	5271	0.28	92	10.2	4.7	3.9	94	113	128	53589
B 57	3460	381	264	1131	5236	0.59	87	3.9	3.2	2.7	101	111	123	53590
B 58	2920	361	238	1078	4597	0.53	88	6.0	2.2	1.2	105	115	104	53591
B 59	1930	264	265	3196	5655	0.51	80	5.5	2.7	1.9	100	110	116	53592
B 60	1900	247	288	1817	4252	0.50	45	4.1	0	0.3	66	70	78	53593

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B 61	2260	296	253	2558	5367	0.55	93	0.9	2.7	4.9	106	115	125	53594
B 62	3230	314	294	3001	6839	0.57	68	2.6	0.8	1.7	85	90	94	53595
B 63	2920	291	252	2468	5931	0.55	42	2.1	1.3	1.4	67	72	75	53596
B 64	2840	324	277	2759	6200	0.55	52	4.8	1.2	1.2	69	77	80	53597
B 65	4940	871	342	3110	9263	0.62	28	0.8	0.6	0.5	48	50	50	53598
B 66	13490	613	317	3424	17844	1.39	70	9.0	2.3	2.4	88	101	104	53599
B 67	4520	941	304	3507	9272	0.61	65	1.3	2.0	2.6	84	89	79	53600
B 68	5770	932	328	3030	10060	0.68	59	3.5	2.9	1.3	63	71	75	53601
B 69	7300	977	451	3308	12036	0.71	37	2.6	1.4	0.7	56	61	61	53602
B 70	4340	760	271	3292	8663	0.52	46	0.4	0.4	1.5	53	55	54	53603
B 71	2300	344	297	2742	5683	0.48	29	3.3	0.4	0.5	39	44	46	53604
B 72	6180	1144	442	3156	10922	0.67	32	0.6	0.3	0.3	49	50	48	53605
B 73	5280	889	283	2613	9065	0.57	32	4.6	1.8	0.7	59	66	106	53606
B 74	9150	1104	323	3128	13705	0.68	41	3.0	1.5	0.4	51	55	66	53607
B 75	5220	1022	316	1742	8300	0.42	28	3.0	1.8	0.5	43	48	47	53608
B 76	7580	192	239	2100	10111	0.55	10	1.9	0.2	0.2	20	22	17	53609
B 77	6970	591	274	1799	9634	0.76	32	3.7	0.7	0.5	47	52	54	53610
B 78	5470	360	276	2163	8269	0.69	28	4.8	0.4	0.7	46	52	63	53611
B 79	15540	513	326	2213	18592	1.07	5	1.1	0.2	0.1	18	19	16	53612
B 80	3240	247	294	2640	6421	0.48	16	2.4	0.1	0.2	27	30	33	53613
B 81	1580	187	283	2572	4622	0.41	11	2.6	0.1	0.1	24	27	28	53614
B 82	6090	289	361	2011	8751	0.70	1	1.0	0	0.2	12	13	8	53615
B 83	4670	480	334	1617	7101	0.67	25	4.7	0.5	0.7	25	31	45	53616
B 84	10180	663	344	1535	12722	1.10	40	0.3	0.4	0.8	44	46	54	53617
B 85	6540	519	348	1517	8924	0.63	31	3.3	0.5	0.5	27	31	43	53618
B 86	9370	525	364	1503	11762	0.98	32	2.3	0.4	0.7	28	31	48	53619
B 87	8280	466	361	1903	11010	1.17	17	2.8	0.2	0.7	11	15	31	53620
B 88	9670	546	333	2008	12557	0.71	13	2.9	0.5	0.9	4	9	26	53621
B 89	8450	546	336	1814	11146	0.53	15	3.2	0.1	0.8	32	36	35	53622
B 90	7960	481	331	1454	10226	0.48	17	1.8	0.3	0.6	30	33	33	53623
B 91	3170	242	189	953	4554	1.08	63	4.1	0.2	0.6	75	80	68	53624
B 92	2000	274	228	576	3078	1.12	90	4.0	0.3	0.6	104	109	111	53625
B 93	2130	284	220	733	3367	0.57	81	2.6	2.2	2.1	98	105	109	53626
B 94	8850	595	249	538	10232	0.88	89	0.7	0	0.2	102	103	109	53627
B 95	2790	364	277	863	4294	0.52	35	2.6	0.3	0.7	49	53	53	53628
B 96	3660	442	279	928	5309	0.52	33	3.2	0.4	0.5	49	53	48	53629
B 97	16610	521	361	868	18360	1.40	14	0.9	0.1	0	28	29	25	53630
B 98	7670	139	227	846	8882	1.02	1	0.9	0	0.4	6	7	10	53631
B 99	7490	285	306	906	8987	0.81	0	1.5	0	0.7	14	17	16	53632
B 100	17340	678	397	821	19236	1.29	4	1.2	0	0.2	30	32	28	53633
B 101	9150	415	300	799	10664	0.87	.	0.8	0	0.5	8	9	12	53634
B 102	8980	562	334	806	10682	0.98	.	1.3	0.3	0.3	13	14	17	53635
C 1	1800	125	263	1317	3505	0.38	21	0.8	0	1.0	40	41	47	53301
C 2	2000	89	246	1430	3765	0.43	36	7.8	0.4	0.5	43	52	58	53302
C 3	2300	97	246	1322	3965	0.42	32	5.5	0	0.5	53	59	62	53303
C 4	3430	166	264	1444	5304	0.47	54	2.6	0.1	0.6	57	60	66	53304
C 5	2410	67	219	877	3573	0.35	5	3.6	0	0	14	18	17	53305
C 6	2600	175	296	1226	4297	0.46	61	1.1	0	1.0	74	76	86	53306
C 7	4400	182	219	1409	6210	0.61	180	10.6	1.2	2.2	294	308	279	53307
C 8	3540	188	265	1135	5128	0.61	108	1.0	0	1.4	114	116	138	53308
C 9	2980	184	329	1053	4546	0.51	73	1.3	0	0.6	96	98	106	53309
C 10	6020	271	204	1155	7650	0.69	71	0.4	0.2	1.9	85	88	91	53310
C 11	1780	82	175	534	2571	0.33	5	6.9	0.5	0.6	23	31	35	53311
C 12	3620	148	165	923	4856	0.54	57	4.9	1.2	2.0	44	53	71	53312
C 13	5240	263	182	833	6518	0.63	34	6.8	1.5	0.9	65	74	85	53313
C 14	24320	934	412	1250	26916	1.59	68	8.5	1.1	2.1	74	86	84	53314
C 15	6630	427	261	1292	8610	0.62	154	10.4	4.0	8.7	189	212	212	53315
C 16	3990	275	432	1272	5969	0.45	116	6.1	0.6	0.1	150	156	161	53316
C 17	4470	276	337	739	5822	0.54	73	2.1	0.2	0.6	99	102	117	53317
C 18	8070	443	231	901	9645	0.71	89	2.1	0.2	2.9	104	109	128	53318

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C 19	3740	242	307	850	5139	0.57	47	5.3	0.6	2.1	70	78	93	53319	
C 20	7680	508	299	1030	9517	2.13	59	6.0	1.0	1.5	73	81	85	53320	
C 21	6200	364	269	802	7635	0.74	56	7.7	1.5	1.8	79	90	101	53321	
C 22	8400	413	282	1398	10493	0.72	60	7.0	1.8	1.2	62	72	82	53322	
C 23	5780	285	231	1431	7727	0.63	87	7.4	1.3	3.4	102	114	133	53323	
C 24	5150	351	345	1330	7176	0.69	98	0.5	0.1	3.6	103	107	122	53324	
C 25	4570	247	.	.	.	0.61	52	6.5	0.8	.	.	.	99	53325	
C 26	6440	351	261	1146	8198	0.65	93	1.4	0.6	6.5	96	104	113	53326	
C 27	3210	168	252	1384	5014	0.43	93	6.6	2.1	8.4	110	127	129	53327	
C 29	3000	293	412	1229	4934	0.52	59	3.6	0.3	0.6	69	73	78	53328	
C 30	4070	181	228	1264	5743	0.59	53	3.3	0.5	1.0	74	79	84	53329	
C 31	3630	138	341	1839	5948	0.43	102	27.4	2.4	20.7	96	147	158	53330	
C 32	4810	158	290	1598	6856	0.42	65	14.3	1.5	7.3	91	114	126	53331	
C 33	3610	176	418	1674	5878	0.41	116	25.8	3.4	12.0	107	148	181	53332	
C 34	3860	148	343	1676	6027	0.48	96	0.9	0.1	3.4	153	158	167	53333	
C 35	0.92	459	53334
C 36	2090	160	382	1999	4631	0.46	55	2.3	0.2	0.3	80	83	128	53335	
C 37	1430	164	271	2075	3940	0.42	66	0.6	0	2.1	75	78	124	53336	
C 38	1810	141	278	1816	4045	0.38	45	2.7	0.2	2.7	58	64	77	53337	
C 39	5910	284	284	650	7128	0.55	102	0.6	0.1	1.5	93	95	126	53338	
C 40	1890	93	308	1036	3327	0.36	182	0.6	0	2.7	299	302	377	53339	
C 42	5320	243	682	1047	7292	2.98	176	2.1	0.2	0.7	196	199	201	53340	
C 43	2410	69	498	1243	4220	0.37	87	1.5	0.2	2.1	98	101	131	53341	
C 44	20090	558	446	907	22001	3.91	69	1.9	0	3.1	48	53	66	53342	
C 45	2450	140	375	844	3809	0.44	88	3.4	0.3	2.4	111	118	136	53343	
C 46	3460	152	723	846	5181	0.71	271	29.8	2.0	3.9	414	450	310	53344	
C 47	2730	140	324	1009	4203	0.41	74	9.4	0.9	4.3	94	109	104	53345	
C 48	3180	120	345	884	4529	0.45	125	6.4	1.2	7.6	161	176	134	53346	
C 49	2690	175	358	1144	4367	0.41	269	7.1	0.5	4.2	415	427	322	53347	
C 50	3770	186	310	789	5055	0.51	121	3.8	0.8	2.8	113	120	144	53348	
C 51	5730	244	280	608	6861	0.61	293	0.8	0.1	1.8	410	413	324	53349	
C 52	2190	182	592	614	3578	0.36	131	0.8	0	1.9	216	218	181	53350	
C 53	2940	218	442	576	4176	0.46	136	1.0	0	1.9	183	186	160	53351	
C 54	3940	230	458	800	5428	0.46	89	3.2	0	0	145	148	108	53352	
C 55	3160	232	399	557	4348	0.47	81	0.9	0	0.8	103	105	117	53353	
C 56	7340	368	353	792	8853	0.61	62	2.3	0	1.9	65	69	79	53354	
C 57	10530	507	490	671	12198	0.72	46	0	0	0	65	65	80	53355	
C 58	9070	388	329	934	10721	0.67	72	2.1	0	0	72	74	91	53356	
C 59	7320	257	335	1004	8916	0.83	68	1.5	0	5.2	98	105	109	53357	
C 60	5490	535	399	980	7404	0.55	190	0.2	0	0.6	221	221	221	53358	
C 61	9380	463	416	1363	11622	0.74	65	0	0	0.2	82	82	99	53359	
C 62	4640	278	380	798	6096	0.55	52	10.5	1.2	0.9	65	78	78	53360	
C 63	4560	240	476	1363	6639	0.49	67	0.7	0	1.1	99	100	107	53361	
C 64	4830	233	419	924	6406	0.58	268	3.1	0.1	1.6	313	318	271	53362	
C 65	2810	121	457	1198	4586	0.38	57	4.0	0.1	0.8	96	101	121	53363	
C 66	8750	322	467	1302	10841	1.20	48	4.8	0.3	6.9	68	80	70	53364	
C 67	5360	307	423	1075	7165	0.52	37	0.4	0	2.6	65	68	62	53365	
C 68	8410	642	1731	1430	12213	0.95	89	0.1	0	1.1	98	99	126	53366	
C 69	3810	85	235	844	4974	0.27	0	1.5	0	0.3	10	12	12	53367	
C 70	8820	375	431	979	10605	0.74	15	4.8	0.5	0.1	38	44	59	53368	
C 71	7980	183	293	807	9263	0.60	0	2.7	0.3	1.7	17	22	27	53369	
C 72	0.77	220	53370
C 73	9910	475	361	662	11408	0.59	63	1.8	0.6	2.4	81	86	106	53371	
C 74	6630	267	331	824	8052	0.58	82	1.6	0.5	2.1	94	98	114	53372	
C 75	3720	221	336	630	4907	0.51	86	1.4	0.2	0.9	121	124	131	53373	
C 76	6380	239	245	611	7475	0.54	72	18.6	2.3	1.5	73	95	110	53374	
C 77	2840	258	504	898	4500	0.52	34	1.5	0.3	0.8	53	56	63	53375	
C 78	5150	433	579	610	6772	0.48	44	0.3	0	2.9	63	66	66	53376	
C 79	9170	389	540	900	10999	0.80	13	1.9	0.2	0.4	33	35	50	53377	
C 80	8030	279	289	1506	10104	0.79	0	3.9	0.1	0.7	21	26	32	53413	

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C 81	3370	122	266	1683	5441	0.47	0	1.7	0.1	0.4	13	15	15	53414	
C 82	10900	114	215	1090	12319	0.69	0	0.8	0	0.2	9	10	4	53415	
C 83	11400	260	290	2033	13983	1.13	0	2.6	0	0.8	17	20	23	53416	
C 84	7900	228	282	548	8958	0.71	0	1.6	0	0.1	3	4	11	53378	
C 85	12320	577	427	687	14011	1.17	1	1.9	0	0.2	18	20	23	53379	
C 86	8850	213	290	634	9987	0.93	7	1.5	0	0.7	4	6	10	53380	
C 87	10540	99	317	909	11865	0.88	0	0.5	0	0.1	1	2	2	53381	
C 89	22070	37	99	303	22509	3.60	0	1.2	0	0.3	0	2	3	53382	
C 90	6090	69	303	652	7114	0.62	0	0.2	0	0.3	0	1	5	53383	
C 91	16040	62	111	1457	17670	1.90	0	1.4	0	0	4	6	2	53384	
C 92	10970	176	297	2148	13591	1.20	0	1.0	0	0	5	6	7	53385	
C 95	21420	37	146	2458	24061	3.61	0	1.2	0	0.2	0	1	2	53386	
C 96	13550	199	248	2391	16388	6.22	0	2.1	0	0.9	9	12	7	53387	
C 96A	16630	521	440	2874	20465	1.51	36	1.5	0	0.6	68	70	66	53388	
C 97	17830	33	102	1231	19196	3.90	0	1.1	0	1.2	0	2	2	53389	
C 98	17810	276	297	2192	20575	1.40	0	0.7	0	0.2	6	7	9	53390	
C 100	14490	114	193	1115	15912	5.76	0	3.1	0	0.5	0	4	5	53391	
C 101	14490	191	310	1392	16383	1.26	0	1.1	0	0.6	6	8	13	53392	
C 106	7450	139	279	832	8700	0.63	0	0.9	0	0	6	6	6	53393	
C 108	6830	210	276	656	7972	0.59	36	3.8	0.1	0.4	42	46	50	53394	
C 109	1410	99	279	543	2331	0.27	16	0.7	0.1	0.6	21	22	23	53395	
C 110	4350	323	339	488	5500	0.49	35	0.7	0.1	1.3	49	51	66	53396	
C 111	90	18	133	689	930	0.24	0	5.8	0.3	6.7	136	149	13	53397	
C 112	6190	186	294	399	7069	0.54	29	1.9	0.3	0.7	45	48	61	53398	
C 113	12640	425	267	300	13632	0.91	32	1.3	0.1	1.2	47	50	73	53399	
C 114	5000	112	170	244	5526	0.41	38	3.2	0.3	2.3	37	42	64	53400	
C 115	6920	276	300	1348	8844	0.58	.	1.0	0.2	1.3	43	45	58	53401	
C 116	4330	116	193	1027	5666	0.48	.	11.9	0.4	1.7	48	62	69	53402	
C 117	2320	137	257	1244	3958	0.38	14	2.7	0.1	0.8	47	51	62	53403	
C 117A	7250	581	572	1208	9611	0.73	.	0.4	0.1	2.6	94	97	105	53404	
C 118	2890	171	334	1123	4518	0.39	17	2.7	0.1	0.9	29	33	37	53405	
C 119	4440	172	340	1652	6604	0.36	.	0.5	0.1	0.5	28	29	38	53406	
C 120	1750	229	332	1674	3985	0.43	9	0.6	0.2	0.4	27	29	28	53407	
C 121	5250	189	373	1698	7510	0.58	6	1.2	0.1	0.8	21	23	24	53408	
C 122	1520	68	278	1442	3308	0.35	2	0.5	0.2	0.5	15	17	17	53409	
C 123	1370	136	264	2118	3888	0.41	0	1.1	0	8.4	12	21	9	53410	
C 124	11060	340	421	1440	13261	1.00	5	1.4	0.1	0.4	21	23	23	53411	
C 125	2400	83	232	2132	4847	0.55	0	0.4	0	0.4	8	9	3	53412	
C 126	930	45	159	970	3104	0.26	0	0.2	0	0.9	3	4	4	53417	
C 131A	15950	122	375	1271	17718	12.19	0	2.8	0.1	5.1	4	12	8	53418	
P 1	6070	100	119	1080	7369	0.30	4	1.7	0.1	1.2	1	4	17	53419	
P 6	2060	50	147	1301	3558	0.28	2	2.7	0.2	1.4	5	10	25	53424	
P 12	0.44	60	53430
P 28	1750	131	249	1701	3831	0.30	75	7.3	0.3	4.5	52	64	72	53445	
P 29	7130	428	261	1490	9309	0.50	66	0.5	0	5.3	93	99	87	53446	
P 31	4560	307	241	1440	6548	0.53	92	6.5	0.1	4.0	95	106	114	53448	
P 32	4730	249	361	1472	6812	0.44	67	2.8	0.2	2.8	69	75	82	53449	
P 42	4930	250	152	1331	6663	0.46	.	2.8	0.4	6.2	88	97	99	53457	
P 44	4590	360	287	1623	6860	0.38	94	1.2	0.2	6.8	114	123	118	53459	
P 47	3730	213	144	1548	5635	0.51	73	0.3	0	8.3	80	89	98	53462	
P 49	6910	253	146	1568	8877	0.50	83	2.6	0.5	7.5	99	109	99	53464	
P 55	5280	253	191	1435	7159	0.50	.	2.0	0.2	5.3	101	109	97	53470	
P 57	4610	225	224	1751	6810	0.54	87	1.2	0	5.3	103	109	98	53494	
P 63	3000	237	333	1523	5093	0.42	137	10.6	0.2	6.1	146	162	155	53473	
P 69	3600	249	299	1241	5389	0.40	89	16.5	0	5.7	106	128	114	53479	
P 73	4480	917	488	2769	8654	0.77	11	2.6	0.1	3.8	36	42	35	53483	
P 76	6930	397	200	1801	9328	0.70	96	2.8	0.2	7.3	111	121	98	53486	
P 84	350	24	141	2543	3058	0.26	0	2.2	0	3.7	9	15	17	53493	
P 99	2760	146	253	1457	4616	0.50	140	1.8	0.1	9.7	148	160	159	53506	
P 103	5790	206	237	1009	7242	0.44	60	5.7	0.4	8.8	61	76	70	53510	

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P 104	2820	117	508	1835	5280	0.49	117	40.4	0.9	8.0	117	166	175	53511
P 106	2780	109	224	1411	4524	0.54	101	9.7	0.4	6.6	111	128	113	53513
P 107	1270	73	213	1806	3362	0.47	70	18.3	0.2	6.9	78	103	97	53514
P 108	3890	212	273	1584	5959	0.50	105	11.0	0.4	7.1	106	124	115	53515
P 111	3260	191	280	1365	5096	0.51	95	16.8	0.4	4.2	95	116	110	53518
P 115	4430	155	175	1301	6061	0.48	68	2.8	0.2	3.2	76	82	93	53522
P 116	2830	117	158	1516	4621	0.48	60	17.3	0.5	3.0	66	87	86	53523
P 118	5970	181	196	1474	7821	0.57	63	19.5	0.6	2.2	72	94	91	53525
P 123	5750	278	271	1386	7685	0.56	59	1.9	0.2	2.7	70	75	82	53530
P 126	5680	433	260	1208	7581	0.70	67	0.5	0.2	3.2	85	88	63	61202
P 129	6290	304	261	1575	8430	0.53	60	0.6	0.1	2.7	69	72	76	61205
P 135	9760	390	298	1754	12202	0.73	47	0.5	0.1	2.6	51	54	46	61211
P 137	14420	795	318	1646	17179	0.85	33	0.7	0.2	2.2	53	57	59	61213
P 147	25750	874	453	1482	28559	4.19	9	2.0	0.1	2.1	75	79	62	61223
P 152	6820	389	184	1602	8995	0.50	62	0.5	0.2	1.9	85	88	77	61225
P 153	6560	389	227	1462	8638	0.50	.	0.7	0	2.5	101	105	79	61226
P 154	4470	287	188	1360	6305	0.44	.	0.6	0	2.8	89	93	91	61227
P 155	6400	305	174	1015	7894	0.45	.	0.6	0	2.9	87	91	90	61228
P 156	5280	306	191	1251	7028	0.43	86	0.7	0	2.7	105	108	89	61229
P 157	8110	303	208	1370	9991	0.58	.	0.6	0	2.9	106	109	104	61230
P 158	5870	192	186	1482	7730	0.58	71	14.9	0.6	2.7	90	109	87	53532
P 159	3560	279	240	1304	5383	0.69	.	1.0	0	2.4	113	117	99	53533
P 160	5260	522	358	1368	7508	0.44	75	0.6	0	1.5	88	90	86	61231
P 170	11810	685	271	1688	14454	0.57	.	0.6	0	1.9	68	70	69	61239
P 172	270	39	98	678	1085	0.19	0	0.1	0	0.9	7	8	4	61241
P 173	4590	308	187	1165	6250	0.44	39	0.5	0.3	2.8	56	59	50	61242
P 177	8100	490	235	1698	10523	0.55	32	4.1	0.3	1.3	45	51	50	61246
P 190	12840	368	222	1008	14438	0.59	42	7.3	0.1	1.7	60	69	67	61255
P 201	13050	375	280	1656	15361	0.86	24	3.0	0.2	1.9	28	33	32	61261
P 209	920	114	246	1999	3279	0.25	0	1.3	0	0.8	12	14	13	61269
P 217	2690	275	372	1535	4872	0.43	25	0.9	0	1.0	33	35	34	61277
P 218	2460	260	327	1621	4668	0.38	25	0.8	0	1.1	34	36	34	61278
P 222	780	80	272	1370	2502	0.30	4	2.6	0	0.5	5	8	19	61282
P 228	8300	71	124	2016	10511	0.55	0	0.3	0	0.8	17	18	1	61288

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B 1	48.1	53.9	7.6	30.7	54	146	169	2.4	2.8	0.2	5.6	14	23	16	53534
B 2	78.9	43.1	11.1	43.5	68	166	226	5.6	2.6	0.5	7.0	23	33	26	53535
B 3	103.2	31.8	23.6	24.9	72	152	180	7.4	1.9	1.5	5.3	19	28	26	53536
B 4	122.8	32.0	25.7	25.3	70	153	168	12.4	2.2	0.9	4.7	22	29	28	53537
B 5	65.8	29.2	16.0	22.2	65	132	158	6.2	1.8	1.0	5.7	18	27	28	53538
B 6	81.7	39.3	16.5	27.4	73	156	198	9.5	2.6	1.2	6.5	19	30	23	53539
B 7	21.7	25.3	5.2	15.7	31	77	89	0.9	1.8	0	3.8	5	10	9	53540
B 8	90.4	59.6	19.0	28.5	54	161	218	8.1	2.8	0.7	6.4	17	27	18	53541
B 9	88.6	51.4	19.5	25.0	49	145	220	3.6	2.5	1.0	5.4	11	19	23	53542
B 10	150.9	100.1	26.1	40.0	69	235	307	10.7	3.5	1.0	6.8	24	35	32	53543
B 11	144.6	75.4	39.0	37.3	81	232	317	6.8	4.0	2.0	6.6	31	43	42	53544
B 12	139.3	76.7	28.6	39.7	76	221	291	10.5	3.6	0.7	8.2	27	39	39	53545
B 13	129.1	87.7	30.9	35.3	79	233	291	10.0	3.9	1.9	6.9	27	40	36	53546
B 14	192.2	77.8	53.4	40.4	80	252	335	10.6	4.5	2.1	7.4	30	44	46	53547
B 15	191.6	48.6	79.9	89.7	98	317	350	6.7	4.2	1.5	7.6	32	46	36	53548
B 16	135.9	99.4	30.4	37.4	75	242	325	12.5	4.6	1.2	7.6	27	40	36	53549
B 17	75.6	47.4	18.6	22.7	78	167	216	7.6	2.4	1.4	5.2	31	40	35	53550
B 18	169.2	93.8	36.5	40.7	86	257	339	11.4	4.2	2.3	7.7	26	40	36	53551
B 19	429.7	56.6	111.3	155.5	87	410	724	17.9	2.2	2.1	5.5	19	29	37	53552
B 20	100.6	42.4	25.7	33.8	41	143	178	7.8	1.2	1.6	4.6	9	16	13	53553
B 21	30.0	17.0	4.3	10.1	59	91	96	2.8	0	0.5	2.6	17	20	16	53554
B 22	.	125.8	15.2	26.9	67	235	270	.	4.2	1.3	7.1	23	36	30	53555
B 23	136.3	68.7	49.7	38.7	74	231	301	6.8	3.6	1.0	6.6	20	31	37	53556
B 24	163.8	71.2	39.7	35.9	75	222	273	9.8	3.3	1.1	6.8	23	34	24	53557
B 25	130.2	44.8	16.4	24.4	521	606	652	8.2	2.9	1.2	5.1	21	31	23	53558
B 26	190.5	13.5	24.9	31.8	63	133	280	6.5	2.8	0.8	6.1	15	24	29	53559
B 27	137.9	70.1	25.2	31.2	67	194	299	8.2	3.3	0.9	7.2	22	34	32	53560
B 28	133.6	91.7	35.8	45.0	81	254	312	10.7	3.4	1.9	10.2	21	37	34	53561
B 29	77.0	34.0	36.6	26.0	50	146	135	4.7	0.9	0.9	3.9	2	8	13	53562
B 30	145.0	95.0	40.7	35.8	73	245	314	13.8	4.0	1.7	8.9	19	34	32	53563
B 31	227.9	70.5	110.2	71.6	71	323	375	10.6	3.3	2.1	8.2	18	32	31	53564
B 32	52.5	35.5	13.6	19.5	40	109	143	5.0	0.5	0.9	4.4	5	10	18	53565
B 33	129.3	83.7	45.3	38.3	107	275	322	7.3	2.8	1.8	6.6	21	32	28	53566
B 34	132.2	31.8	28.1	36.5	62	158	193	14.7	2.6	1.3	6.2	8	18	18	53567
B 35	51.1	28.9	22.6	19.5	35	106	118	2.3	2.2	0.7	4.9	4	11	15	53568
B 36	86.1	29.9	25.3	26.4	76	158	187	10.1	2.6	1.3	5.9	21	31	27	53569
B 37	137.1	82.9	42.3	41.2	88	254	343	8.0	3.6	1.9	9.7	27	43	41	53570
B 38	114.6	78.1	30.0	36.8	70	215	272	8.7	2.9	1.5	8.5	15	28	34	53571
B 39	74.9	61.1	18.1	30.0	74	183	258	4.7	2.4	0.8	6.0	19	28	9	53572
B 40	120.9	71.1	36.1	37.6	88	233	315	13.6	3.8	2.1	8.2	26	40	18	53573
B 41	18.4	23.6	5.1	7.4	23	59	66	0.8	1.8	0.7	3.3	2	8	9	53574
B 42	211.4	91.6	69.0	50.6	81	292	380	13.1	4.2	1.2	7.4	20	33	19	53575
B 43	82.0	97.0	40.8	45.8	84	268	327	4.4	3.0	1.0	6.0	18	28	11	53576
B 44	113.6	80.4	33.4	37.9	66	218	318	5.3	3.4	1.1	4.4	13	22	9	53577
B 45	97.3	56.7	30.5	38.6	79	205	246	3.7	2.7	1.0	7.2	19	30	9	53578
B 46	303.9	118.1	62.6	61.3	116	358	479	13.3	3.3	1.2	7.1	24	36	22	53579
B 47	154.1	98.9	37.3	46.7	90	273	349	7.4	3.4	1.4	7.3	23	36	17	53580
B 48	80.4	53.6	22.3	33.9	71	181	244	6.5	2.4	0.7	5.6	24	33	26	53581
B 49	.	101.2	16.4	33.0	69	219	294	.	2.6	1.1	6.6	20	31	34	53582
B 50	479.0	126.0	75.1	110.8	185	497	591	11.7	10.0	2.4	11.3	31	54	33	53583
B 51	78.6	40.4	30.4	30.2	56	157	197	2.9	2.7	0.3	4.6	13	21	19	53584
B 52	283.3	100.7	65.1	68.9	111	346	443	14.3	2.9	1.2	9.2	28	42	44	53585
B 53	124.1	84.9	39.6	42.8	70	237	283	6.6	2.6	1.4	8.3	58	70	24	53586
B 54	224.6	77.4	51.0	55.8	102	286	389	14.4	3.5	1.7	9.9	28	43	33	53587
B 55	153.6	59.4	34.3	39.3	68	201	240	5.7	2.5	1.2	6.3	18	28	25	53588
B 56	121.1	74.9	33.5	42.4	72	223	287	9.1	2.5	1.2	6.3	21	31	36	53589
B 57	103.8	61.2	29.5	38.1	81	210	259	8.8	3.6	1.0	8.6	22	35	24	53590
B 58	117.3	50.7	27.7	34.6	77	190	214	10.0	2.1	1.0	6.7	18	28	15	53591
B 59	88.8	47.2	27.7	36.5	83	195	230	8.9	2.7	1.1	8.3	23	35	30	53592
B 60	54.8	33.2	24.2	34.6	90	182	219	7.8	1.7	1.0	5.9	22	31	20	53593

STN	Zn _{org}	Zn _{WA}	Zn _{HA}	Zn _{HHA}	Zn _R	Zn _{SUM}	Zn _T	Ni _{org}	Ni _{WA}	Ni _{HA}	Ni _{HHA}	Ni _R	Ni _{SUM}	Ni _T	ID
	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	
B 61	128.0	55.0	44.3	46.2	78	223	279	9.7	2.8	1.8	9.1	21	34	39	53594
B 62	96.4	38.6	24.2	36.5	77	176	220	10.6	2.6	1.0	8.3	21	33	35	53595
B 63	65.1	50.9	25.4	37.9	86	200	313	4.3	2.5	0.6	6.8	14	24	40	53596
B 64	70.0	35.0	21.7	34.1	81	172	198	9.3	2.8	0.9	8.6	20	32	48	53597
B 65	32.9	21.1	18.9	22.6	61	124	131	5.4	2.0	1.3	5.6	14	23	35	53598
B 66	133.4	61.6	28.4	40.8	76	207	230	15.0	3.8	1.5	11.4	29	46	52	53599
B 67	93.9	38.1	37.4	36.0	72	183	203	11.5	3.2	2.5	7.9	21	34	51	53600
B 68	85.1	36.9	26.7	31.2	71	166	180	10.8	2.8	1.4	8.5	21	34	81	53601
B 69	61.7	32.3	21.9	29.0	66	149	155	5.8	3.2	1.0	7.4	21	32	94	53602
B 70	60.9	29.1	23.2	27.2	81	161	172	5.9	3.6	1.4	6.9	21	32	107	53603
B 71	47.0	22.0	13.6	24.9	57	118	128	5.6	1.9	1.4	7.3	18	29	75	53604
B 72	41.2	19.8	20.9	25.5	61	127	123	5.9	2.3	0.9	6.9	19	29	89	53605
B 73	41.7	31.3	25.1	26.8	67	151	232	5.0	2.2	1.3	7.0	20	31	132	53606
B 74	63.2	55.8	27.6	29.0	54	166	201	5.5	3.3	1.0	7.8	21	33	193	53607
B 75	29.6	21.4	15.4	20.7	48	105	113	5.2	2.0	1.5	6.8	7	17	22	53608
B 76	17.4	13.6	4.4	13.2	29	60	58	1.8	2.1	0.4	4.7	0	7	75	53609
B 77	50.2	25.8	12.8	24.3	56	118	140	4.3	3.0	0.8	6.6	13	23	141	53610
B 78	50.9	30.1	12.0	24.8	67	134	158	4.5	2.4	1.0	6.6	14	24	183	53611
B 79	10.4	6.6	3.7	13.2	29	53	57	3.0	1.1	0.6	3.7	0	5	180	53612
B 80	28.5	18.5	9.0	20.4	42	90	98	4.2	0.9	0.5	5.2	5	12	140	53613
B 81	31.6	12.4	7.1	17.5	38	75	83	4.2	0.8	0.7	4.7	3	9	218	53614
B 82	10.4	5.6	2.6	9.3	22	39	38	1.8	0.5	0	2.5	0	3	181	53615
B 83	46.2	21.8	9.4	20.8	49	101	128	5.7	1.7	1.3	6.7	17	27	17	53616
B 84	48.3	28.7	17.7	26.3	52	124	153	6.4	2.5	0.4	6.4	14	23	25	53617
B 85	49.0	26.9	11.4	22.2	50	110	134	5.9	1.6	0.5	5.6	13	21	29	53618
B 86	56.0	54.0	13.5	23.0	46	136	172	6.4	1.9	0.5	5.5	13	20	26	53619
B 87	33.2	18.8	6.9	18.1	41	84	106	5.4	1.2	0.7	5.3	10	18	22	53620
B 88	32.9	16.1	6.0	15.9	31	69	92	3.4	0.6	0.4	3.7	3	8	11	53621
B 89	22.2	14.8	7.3	16.7	43	82	98	4.2	1.3	0.5	5.2	10	17	9	53622
B 90	25.0	16.0	8.3	17.2	41	83	103	4.2	1.5	1.0	4.0	7	13	9	53623
B 91	105.0	47.3	22.1	34.1	56	160	210	7.5	1.4	0.7	4.5	15	22	15	53624
B 92	144.3	60.7	32.0	35.4	73	201	264	11.9	1.6	1.6	6.6	22	32	23	53625
B 93	81.5	36.5	26.1	34.4	74	171	215	8.5	1.4	1.4	7.0	20	30	18	53626
B 94	131.9	40.1	48.6	52.7	72	214	252	11.3	2.0	1.3	7.1	21	31	28	53627
B 95	41.0	25.0	14.6	23.1	60	122	144	7.0	1.5	1.2	7.7	15	25	23	53628
B 96	40.3	22.7	13.0	22.6	57	115	138	6.7	1.4	1.2	7.4	14	24	17	53629
B 97	15.4	12.6	6.0	15.5	40	74	87	3.9	2.4	0.5	5.7	8	16	15	53630
B 98	10.9	7.1	0.9	6.9	23	37	41	0.6	0.4	0.6	3.2	0	4	9	53631
B 99	3.9	11.1	2.9	11.1	27	52	62	1.4	0.7	0.9	4.5	0	6	9	53632
B 100	18.6	15.4	7.7	17.5	41	82	93	4.1	2.0	1.2	6.9	8	18	17	53633
B 101	.	7.7	1.7	7.2	22	39	45	.	0.6	1.3	3.0	0	5	9	53634
B 102	.	80.1	10.0	13.1	28	131	112	.	1.8	0.8	4.1	0	7	9	53635
C 1	43.6	42.4	17.2	65.2	64	189	221	3.9	2.2	0	5.7	12	20	27	53301
C 2	84.9	76.1	11.7	48.0	69	205	245	6.1	2.2	0	5.5	18	25	27	53302
C 3	58.2	78.8	12.2	52.2	73	216	240	4.8	2.8	0	6.7	22	32	32	53303
C 4	124.8	72.2	17.1	58.9	65	213	267	6.9	3.1	0	5.9	16	25	22	53304
C 5	0	38.2	4.7	22.1	34	99	118	2.6	1.0	0	4.4	4	10	12	53305
C 6	124.4	49.6	20.4	97.5	75	243	291	8.5	2.6	0	7.4	17	27	36	53306
C 7	199.8	120.2	23.5	132.9	76	353	472	5.9	5.2	0	6.4	20	32	31	53307
C 8	245.6	73.4	33.1	142.0	78	326	417	10.7	2.8	0	5.7	21	30	31	53308
C 9	116.4	76.6	23.8	109.5	74	284	336	7.6	2.6	0	7.4	23	33	27	53309
C 10	217.9	28.1	15.6	138.6	77	259	279	5.2	4.2	0.6	6.9	25	36	23	53310
C 11	29.2	37.8	6.1	24.1	39	107	128	1.8	2.5	0.4	4.9	4	11	8	53311
C 12	102.0	59.0	10.9	35.5	58	163	213	4.8	2.9	0.1	5.1	13	22	16	53312
C 13	42.6	86.4	18.0	45.5	69	219	270	2.1	5.3	0.2	5.5	27	38	29	53313
C 14	117.6	77.4	17.6	58.8	73	226	232	5.1	4.3	0.6	6.6	21	33	19	53314
C 15	108.8	106.2	20.5	67.0	70	264	314	5.3	4.0	0.6	6.0	14	24	20	53315
C 16	161.6	64.4	14.5	51.2	68	198	246	9.3	3.1	0	4.8	18	26	20	53316
C 17	109.7	82.3	26.3	96.0	65	270	331	10.9	4.3	1.1	6.2	13	25	25	53317
C 18	216.4	85.6	43.9	125.0	85	339	407	7.4	6.3	1.1	6.3	18	32	32	53318

STN	Zn _{org}	Zn _{WA}	Zn _{HA}	Zn _{HHA}	Zn _R	Zn _{SUM}	Zn _T	Ni _{org}	Ni _{WA}	Ni _{HA}	Ni _{HHA}	Ni _R	Ni _{SUM}	Ni _T	ID
	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	
C 19	82.9	66.1	19.3	62.5	77	224	282	6.2	3.3	0.5	7.8	20	32	33	53319
C 20	138.0	91.0	19.2	55.1	75	240	268	5.6	3.8	0	7.3	15	27	23	53320
C 21	100.7	117.3	27.3	61.5	78	284	354	5.7	4.9	0.6	6.3	17	29	30	53321
C 22	138.6	107.4	17.9	48.4	71	245	274	4.7	4.0	0.5	6.0	10	21	21	53322
C 23	177.3	108.7	31.8	104.0	80	324	412	7.2	4.7	0	6.7	23	34	24	53323
C 24	281.8	59.2	32.6	122.6	77	291	351	6.0	5.6	0.4	7.8	13	27	31	53324
C 25	83.8	73.2	17.1	.	.	.	285	5.6	4.2	0.3	.	.	.	42	53325
C 26	292.2	88.8	38.0	79.1	61	267	354	6.1	4.0	0.2	4.9	20	29	25	53326
C 27	120.1	85.9	21.7	89.1	72	269	372	6.3	2.9	0.3	5.8	18	27	27	53327
C 29	147.6	42.4	13.2	40.2	59	155	207	6.5	2.8	0.7	6.5	24	34	27	53328
C 30	62.2	63.8	14.5	50.1	70	198	253	7.1	2.9	0.8	5.7	20	29	16	53329
C 31	161.1	117.9	13.0	92.3	144	367	417	5.8	4.5	0.8	7.1	28	41	29	53330
C 32	67.2	113.8	13.3	66.8	105	299	352	5.9	3.5	1.1	6.2	15	26	24	53331
C 33	166.0	135.0	19.2	106.6	149	410	464	8.2	5.1	1.7	8.0	21	36	31	53332
C 34	193.1	52.9	21.9	152.3	105	332	434	8.2	4.8	1.1	9.3	26	42	47	53333
C 35	.	.	.	.	.	.	718	.	.	.	.	.	.	73	53334
C 36	211.9	132.1	56.8	146.1	76	411	627	8.1	3.9	1.6	9.8	20	35	41	53335
C 37	237.0	107.7	56.3	138.1	80	382	559	15.1	3.8	1.2	9.0	30	44	42	53336
C 38	70.9	30.1	13.1	48.6	79	171	176	5.1	2.3	0.3	4.9	9	17	21	53337
C 39	247.2	21.8	19.6	134.5	65	241	218	13.4	2.9	0	7.1	11	21	31	53338
C 40	209.3	36.7	20.1	133.5	130	321	490	7.2	2.2	0.3	7.5	16	26	31	53339
C 42	396.5	87.5	27.1	130.4	188	433	489	7.4	4.9	0.1	5.7	16	27	34	53340
C 43	298.0	64.7	16.6	121.0	131	333	301	6.7	1.6	0	7.9	12	22	20	53341
C 44	159.1	38.9	11.3	54.4	57	161	150	4.4	2.2	0.1	5.5	11	18	17	53342
C 45	100.8	67.2	19.4	109.8	85	282	336	7.4	3.4	0.3	8.9	13	25	35	53343
C 46	302.2	136.8	12.1	43.4	102	294	465	26.0	6.2	0.5	20.6	55	82	72	53344
C 47	108.1	71.9	16.7	86.0	74	249	275	6.7	2.6	0	7.4	6	16	21	53345
C 48	286.9	123.1	25.6	113.3	72	334	393	8.7	3.1	0.1	8.1	10	22	38	53346
C 49	376.4	122.6	44.3	145.9	173	486	696	17.5	4.4	0.9	10.5	33	48	52	53347
C 50	248.3	85.7	21.9	85.8	72	265	351	8.8	3.0	0.7	8.1	17	29	33	53348
C 51	520.2	41.8	24.5	152.4	167	385	539	9.4	7.5	0.7	8.3	6	23	44	53349
C 52	419.0	57.8	31.6	147.6	83	320	555	6.6	2.9	0.3	5.8	5	14	22	53350
C 53	168.2	41.8	16.8	99.0	83	241	302	8.4	1.2	0.2	5.2	21	28	21	53351
C 54	118.1	53.9	13.4	51.6	74	193	233	8.8	2.2	0.4	6.2	20	29	14	53352
C 55	101.4	58.6	19.5	88.8	68	235	266	8.6	2.3	0.8	6.3	17	26	18	53353
C 56	110.3	52.7	13.7	37.5	73	177	233	8.6	2.2	0.7	4.8	23	31	13	53354
C 57	46.2	31.8	11.7	57.6	62	163	200	6.9	2.8	0.4	5.1	25	34	17	53355
C 58	94.5	56.5	13.6	38.7	63	172	216	7.8	2.8	0.5	4.9	21	29	29	53356
C 59	44.3	85.7	18.0	58.7	69	232	262	7.5	2.1	0.1	5.7	17	25	28	53357
C 60	372.6	80.4	38.4	134.7	114	367	499	12.3	3.7	0.5	7.7	15	27	44	53358
C 61	80.7	45.3	14.0	53.9	62	175	224	8.2	1.9	0	4.9	20	27	54	53359
C 62	64.0	51.0	11.7	30.2	66	159	189	7.5	2.5	0.5	4.9	15	23	46	53360
C 63	102.6	32.4	15.7	101.3	79	229	247	10.9	3.2	0.4	7.4	18	29	58	53361
C 64	486.9	92.1	12.3	136.0	194	434	590	17.0	7.3	0.4	8.0	31	47	59	53362
C 65	147.5	138.5	32.7	130.7	156	458	344	10.8	2.4	0.4	5.7	21	29	44	53363
C 66	111.0	39.0	7.8	30.6	57	134	153	6.4	2.6	0.5	4.6	5	13	62	53364
C 67	45.2	18.8	7.8	71.8	56	155	142	6.0	3.9	0.6	7.8	4	16	82	53365
C 68	478.0	59.0	10.9	145.4	162	378	578	23.8	2.7	1.1	15.9	39	58	69	53366
C 69	2.4	5.6	0.6	7.1	53	66	63	1.6	0.1	0	2.1	16	18	187	53367
C 70	37.2	28.8	7.2	23.7	51	110	137	5.2	2.1	0.3	5.3	18	26	320	53368
C 71	2.4	16.6	2.8	15.3	31	66	77	1.5	1.2	0	3.4	2	6	517	53369
C 72	.	.	.	.	.	.	389	.	.	.	.	.	.	625	53370
C 73	56.0	44.0	15.6	48.9	55	164	222	7.3	2.7	0	5.3	19	27	537	53371
C 74	124.3	37.7	14.7	48.1	67	168	227	8.9	3.0	0	6.1	17	26	739	53372
C 75	98.0	45.0	18.0	73.7	78	215	274	8.7	2.7	0	6.0	24	32	607	53373
C 76	115.0	129.0	13.0	35.0	66	243	280	9.6	2.8	0	5.3	14	22	373	53374
C 77	48.3	28.7	9.6	32.3	68	138	156	8.1	1.4	0	5.1	19	25	75	53375
C 78	116.2	20.8	14.9	63.7	59	158	174	10.8	1.9	0	5.3	17	24	553	53376
C 79	25.2	21.8	5.1	23.9	49	100	121	6.0	2.1	0	5.9	9	17	1139	53377
C 80	11.4	12.6	2.6	13.5	33	61	81	2.7	1.4	0.5	3.7	7	13	9	53413

STN	Zn _{org}	Zn _{WA}	Zn _{HA}	Zn _{HHA}	Zn _R	Zn _{SUM}	Zn _T	Ni _{org}	Ni _{WA}	Ni _{HA}	Ni _{HHA}	Ni _R	Ni _{SUM}	Ni _T	ID	
	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹	μg _g ⁻¹		
C 81	4.0	9.0	1.3	8.4	24	43	57	1.5	1.1	0	2.7	4	8	11	53414	
C 82	1.8	4.2	0.1	4.3	21	29	44	0.4	0.2	0.7	1.6	0	3	9	53415	
C 83	11.8	11.2	1.7	11.9	32	57	68	2.9	0.4	0.6	3.9	8	13	10	53416	
C 84	2.5	7.5	1.0	9.3	25	42	45	1.0	1.0	0.2	2.3	4	7	910	53378	
C 85	16.3	13.7	4.6	17.3	34	70	74	2.9	3.1	0.8	4.7	0	9	1348	53379	
C 86	14.0	6.0	0.7	8.7	25	41	42	0.4	1.3	0.4	2.4	0	4	1185	53380	
C 87	0.9	3.1	0.4	5.1	24	32	29	0.3	0.3	0.1	0.7	0	1	246	53381	
C 89	2.7	3.3	0.2	3.4	15	22	27	0	1.0	0.3	1.5	0	3	774	53382	
C 90	0	3.0	0.1	5.4	25	34	32	0	0.8	0.3	1.6	0	3	708	53383	
C 91	11.8	4.2	0.2	4.2	28	37	27	0	0.6	0.3	1.5	0	2	11	53384	
C 92	0	4.4	0.8	6.5	21	32	35	0.7	0.3	0.1	1.7	2	4	11	53385	
C 95	12.4	3.6	0.5	13.4	29	46	28	0	0.3	0.2	0.9	0	1	155	53386	
C 96	29.2	11.8	1.4	22.3	39	74	43	0	1.2	0	1.2	0	2	1477	53387	
C 96A	64.9	37.1	11.4	61.1	51	161	173	5.0	2.7	0	4.4	0	7	1574	53388	
C 97	9.2	2.8	0.3	10.5	19	33	33	0	1.0	0	0.5	0	2	1491	53389	
C 98	10.7	5.3	0.8	8.1	23	37	45	0.6	1.2	0.1	2.8	0	4	1234	53390	
C 100	11.5	6.5	0.1	6.9	14	27	27	0	1.7	0	1.4	0	3	1738	53391	
C 101	13.1	5.9	1.0	8.2	24	39	38	0.6	1.4	0	3.1	0	5	1016	53392	
C 106	6.9	4.1	0.4	6.6	24	35	34	0.6	0.9	0	3.1	6	10	11	53393	
C 108	63.3	45.7	7.0	24.7	50	127	135	6.9	2.8	0	7.7	21	31	111	53394	
C 109	26.4	14.6	3.4	17.4	32	67	77	4.3	1.4	0	5.0	3	9	889	53395	
C 110	124.3	20.7	6.4	74.0	55	156	176	9.9	2.7	0.5	7.3	20	31	1791	53396	
C 111	0	10.9	2.5	20.2	62	96	47	0.2	0.6	0	4.3	187	192	1159	53397	
C 112	95.3	31.7	6.5	27.4	55	121	155	8.0	2.4	0.1	6.0	17	25	1497	53398	
C 113	49.3	29.7	7.3	26.1	52	115	148	5.7	2.9	0.8	5.8	14	23	1801	53399	
C 114	142.1	48.9	10.2	39.9	75	174	176	5.5	2.8	0.1	3.9	10	17	1993	53400	
C 115	.	32.1	7.1	27.1	48	115	159	.	2.3	0	4.9	16	23	20	53401	
C 116	.	65.4	7.4	32.5	59	165	225	.	2.3	0	5.1	21	29	25	53402	
C 117	108.7	38.6	10.1	30.6	36	115	166	8.9	1.6	0	5.2	12	19	11	53403	
C 117A	.	28.0	10.4	71.0	43	152	189	.	3.5	0	4.8	13	21	17	53404	
C 118	27.4	19.6	3.1	16.6	34	73	105	5.7	0.7	0	4.5	13	18	17	53405	
C 119	.	21.5	4.7	19.0	27	72	111	.	1.4	0	4.5	12	17	15	53406	
C 120	14.5	9.5	3.2	14.9	38	65	88	5.9	0	0	4.7	15	20	23	53407	
C 121	27.0	18.0	3.5	12.5	31	65	91	4.0	1.4	0	3.9	9	15	14	53408	
C 122	24.1	11.9	1.8	8.6	26	48	66	2.9	0.6	0	2.6	4	7	9	53409	
C 123	14.4	6.6	1.1	9.9	22	40	44	1.4	0.5	0	2.4	1	4	9	53410	
C 124	48.8	15.8	3.7	17.2	30	67	83	3.3	3.6	0	4.0	5	13	9	53411	
C 125	8.7	2.3	0	4.0	20	27	28	0.4	0.1	0	1.2	0	1	9	53412	
C 126	7.0	2.0	0	3.9	22	27	28	0.6	0	0	1.3	0	1	9	53417	
C 131A	33.0	3.0	0.1	6.0	46	55	34	0.8	0	0	1.6	11	13	13	53418	
P 1	34.9	33.1	6.7	18.7	31	89	111	3.0	2.2	0.5	3.0	14	20	11	53419	
P 6	60.1	47.7	5.7	19.3	46	119	143	2.8	1.6	0.1	3.0	27	32	18	53424	
P 12	238	18	53430
P 28	118.6	52.4	10.9	34.4	62	159	241	7.4	2.3	0.2	3.6	30	36	20	53445	
P 29	241.8	55.9	43.1	87.1	86	273	333	7.6	6.4	0.7	5.5	37	49	36	53446	
P 31	198.4	97.7	22.9	49.8	93	263	355	11.6	4.8	0.6	5.3	33	44	45	53448	
P 32	188.1	48.3	12.3	29.5	83	174	205	8.1	3.7	0.8	5.4	31	41	59	53449	
P 42	.	88.7	17.3	35.3	85	227	298	.	3.8	0.4	4.9	31	40	40	53457	
P 44	195.9	67.1	40.4	97.2	105	310	329	8.8	3.6	0.6	5.2	36	45	47	53459	
P 47	198.5	45.5	34.3	70.6	83	234	263	5.4	2.5	0.7	3.4	28	34	30	53462	
P 49	212.6	106.8	22.3	46.4	80	255	297	6.5	3.2	0.1	3.4	32	39	38	53464	
P 55	.	87.3	17.3	37.3	97	239	269	.	3.6	0	4.0	31	39	42	53470	
P 57	91.6	100.4	24.4	48.5	87	260	314	7.8	2.7	0.5	3.8	26	33	39	53494	
P 63	135.5	89.5	19.3	58.2	135	302	322	10.1	3.1	0.1	4.4	36	44	45	53473	
P 69	139.2	110.8	15.8	42.9	108	278	449	11.1	5.0	0.5	5.0	31	42	47	53479	
P 73	21.8	24.2	7.7	17.2	73	122	124	5.0	0.9	0	5.3	32	39	41	53483	
P 76	173.4	117.3	26.7	50.5	91	285	361	7.7	5.6	0.6	5.4	26	37	44	53486	
P 84	0	13.3	0.3	4.2	61	78	73	0.9	0	0.3	1.2	22	23	16	53493	
P 99	191.8	86.2	27.5	97.2	111	321	346	11.0	3.6	1.0	5.6	33	44	41	53506	
P 103	84.6	78.4	13.4	49.4	50	192	214	5.2	1.7	0.8	4.7	18	26	20	53510	

STN	Zn _{Org}	Zn _{WA}	Zn _{HA}	Zn _{HHA}	Zn _R	Zn _{SUM}	Zn _T	Ni _{org}	Ni _{WA}	Ni _{HA}	Ni _{HHA}	Ni _R	Ni _{SUM}	Ni _T	ID
	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	$\mu\text{g g}^{-1}$	
P 104	179.8	132.2	12.4	32.3	89	266	386	9.1	4.5	1.2	6.0	38	49	70	53511
P 106	103.0	106.0	16.7	46.6	77	246	283	9.4	2.8	0.6	4.6	28	36	36	53513
P 107	86.2	85.8	16.6	40.8	79	223	219	5.7	3.6	0.7	4.8	25	34	29	53514
P 108	98.9	80.1	17.6	63.1	151	312	282	7.5	3.5	0.7	4.7	29	38	30	53515
P 111	89.1	86.9	15.7	38.1	97	238	261	10.0	4.5	0.9	5.7	32	44	35	53518
P 115	91.9	72.1	12.7	31.2	87	203	245	8.2	1.9	0.7	3.8	26	32	28	53522
P 116	46.2	108.8	5.6	14.9	83	212	210	8.0	3.3	0.7	3.8	25	33	30	53523
P 118	40.5	98.8	5.9	19.0	80	204	222	7.2	3.5	0.5	4.1	29	37	26	53525
P 123	72.6	49.4	12.0	28.2	76	165	199	7.6	2.8	0.8	3.9	28	35	29	53530
P 126	91.5	28.5	21.3	52.7	85	188	219	8.0	3.1	0.8	4.6	31	40	32	61202
P 129	76.0	51.0	17.2	32.1	74	174	192	7.2	2.7	0.2	4.2	18	25	37	61205
P 135	63.3	31.7	11.7	29.8	60	133	142	6.9	2.4	0.4	4.1	11	18	29	61211
P 137	51.5	38.5	14.7	24.9	63	141	158	5.5	3.0	0.5	4.4	17	25	34	61213
P 147	11.3	29.7	6.1	19.9	83	138	107	1.9	2.7	0.4	3.6	23	29	53	61223
P 152	150.5	12.2	24.9	83.9	87	208	214	8.2	2.0	0	3.4	21	26	36	61225
P 153	.	24.0	23.4	88.1	97	233	232	.	1.9	0	3.9	22	28	37	61226
P 154	.	15.6	23.5	92.5	75	206	223	.	2.3	0	3.9	20	26	36	61227
P 155	.	15.4	26.4	85.3	75	202	223	.	2.0	0	4.3	20	26	32	61228
P 156	112.0	19.0	23.1	81.6	97	220	222	10.4	1.9	0	3.6	22	27	41	61229
P 157	.	26.7	28.2	75.3	86	216	241	.	2.4	0	3.9	22	28	28	61230
P 158	67.1	90.9	10.5	28.8	79	209	241	8.4	3.5	0.8	3.6	28	36	28	53532
P 159	.	42.0	24.9	70.9	85	223	274	.	3.4	0.4	3.5	28	35	30	53533
P 160	139.8	25.8	24.0	86.0	91	226	241	10.3	1.8	0	2.8	19	23	23	61231
P 170	.	8.2	18.5	67.1	83	177	186	.	2.1	0	4.5	24	30	33	61239
P 172	7.3	3.7	1.2	5.7	33	44	44	0.9	0	0	0	0	0	0	61241
P 173	40.0	51.0	18.1	31.3	98	198	193	4.7	3.0	0.8	4.6	30	38	28	61242
P 177	13.8	51.2	6.9	16.2	64	138	141	5.5	2.1	0.9	4.4	22	29	27	61246
P 190	49.9	64.0	8.4	25.2	68	166	191	6.5	3.2	0.8	4.3	17	25	25	61255
P 201	32.0	28.0	3.3	13.6	62	107	114	4.7	1.7	0.6	3.8	19	25	19	61261
P 209	13.7	9.3	1.5	9.0	31	51	55	1.6	1.2	0.2	3.3	2	7	0	61269
P 217	48.3	30.7	8.2	24.4	51	115	126	4.7	1.6	0.5	4.1	12	18	25	61277
P 218	51.8	34.2	9.8	23.8	53	121	123	4.0	2.1	0.2	4.5	14	20	22	61278
P 222	11.6	20.4	1.9	9.7	24	56	75	3.5	0.2	0	3.5	0	4	9	61282
P 228	10.3	2.7	0.4	3.3	44	51	30	0.3	0	0	1.5	7	8	0	61288

STN	Pb _{org} μg _g ⁻¹	Pb _{WA} μg _g ⁻¹	Pb _{HA} μg _g ⁻¹	Pb _{HHA} μg _g ⁻¹	Pb _R μg _g ⁻¹	Pb _{SUM} μg _g ⁻¹	Pb _T μg _g ⁻¹	Cr _{org} μg _g ⁻¹	Cr _{WA} μg _g ⁻¹	Cr _{HA} μg _g ⁻¹	Cr _{HHA} μg _g ⁻¹	Cr _R μg _g ⁻¹	Cr _{SUM} μg _g ⁻¹	Cr _T μg _g ⁻¹	ID
B 1	22.8	19.2	6.6	21.3	0	47	40	1.8	1	0.4	4.1	33	38	.	53534
B 2	41.2	26.8	8.7	27.1	7	69	70	9.2	2	0.7	5.0	49	56	.	53535
B 3	51.7	28.3	12.2	49.6	25	115	116	10.9	1	0.4	5.2	47	54	.	53536
B 4	101.4	34.8	12.4	55.5	24	127	120	23.8	1	0.5	5.4	43	50	.	53537
B 5	53.8	37.2	12.9	59.3	18	127	137	13.9	1	0.5	6.7	43	51	.	53538
B 6	97.7	41.3	11.3	54.6	18	126	140	18.4	2	0	6.6	48	56	.	53539
B 7	18.6	19.4	4.3	21.1	0	45	31	2.5	1	0.2	3.9	24	28	.	53540
B 8	67.1	49.9	10.2	50.4	0	111	152	14.3	3	0.4	6.1	49	58	.	53541
B 9	43.9	45.1	11.4	50.3	0	107	138	9.2	1	0.3	6.5	58	66	.	53542
B 10	135.8	91.2	17.9	80.3	22	212	249	18.9	4	0.4	7.5	58	70	.	53543
B 11	99.2	71.8	22.5	87.1	45	227	257	17.2	5	0.5	7.1	68	81	.	53544
B 12	123.1	70.9	17.4	74.9	27	190	223	18.8	4	0.5	6.9	62	73	.	53545
B 13	99.2	72.3	17.4	68.5	23	181	216	7.9	5	0.3	6.7	62	74	.	53546
B 14	115.0	54.0	13.0	96.6	58	221	236	18.7	5	0.7	6.3	66	78	.	53547
B 15	113.2	40.8	16.0	144.0	68	269	265	16.4	5	0.4	7.4	63	76	.	53548
B 16	144.5	87.0	15.1	75.2	29	207	250	19.5	5	0	7.0	46	58	.	53549
B 17	27.4	60.6	17.0	58.0	18	154	180	10.3	3	0.3	4.9	44	52	.	53550
B 18	157.2	96.8	24.6	80.9	31	233	289	23.2	5	0.2	7.9	53	66	.	53551
B 19	172.9	35.5	24.2	217.7	178	456	1442	19.8	2	0.1	6.8	26	35	.	53552
B 20	56.3	31.7	10.9	39.7	0	82	105	12.6	2	0.4	7.4	2	12	.	53553
B 21	21.9	21.1	1.8	10.1	0	33	70	1.3	1	0.5	4.1	30	35	.	53554
B 22	.	118.6	15.4	47.6	12	194	253	.	4	0.5	9.1	39	53	.	53555
B 23	96.6	70.4	18.8	75.4	26	191	258	14.4	5	0.8	8.0	37	50	.	53556
B 24	138.6	78.4	21.7	77.9	32	210	262	21.4	5	0.9	8.3	39	53	.	53557
B 25	73.4	145.6	113.3	314.6	273	846	1237	24.0	3	0.8	8.0	64	76	.	53558
B 26	102.3	63.7	14.4	55.3	17	150	195	12.4	3	0.4	6.8	49	59	.	53559
B 27	119.1	78.9	21.1	57.4	12	169	285	15.5	4	0.2	7.5	57	69	.	53560
B 28	129.8	90.9	18.9	71.6	36	217	279	19.1	5	0.6	8.9	63	78	.	53561
B 29	35.2	38.8	22.4	38.0	0	99	110	0	1	0.3	4.7	20	26	.	53562
B 30	130.7	81.3	22.0	75.6	41	220	277	21.1	5	0.2	8.5	58	72	.	53563
B 31	140.5	51.5	37.9	95.4	37	222	269	11.2	5	0.7	8.9	52	67	.	53564
B 32	36.9	36.1	8.9	31.4	0	76	105	7.5	3	0.3	5.8	28	37	.	53565
B 33	0	128.0	41.1	101.2	52	323	344	9.9	2	0.2	6.7	51	60	.	53566
B 34	59.4	41.6	10.7	60.4	27	140	119	15.7	1	0	5.2	39	46	.	53567
B 35	38.9	19.1	7.6	40.1	15	81	48	1.9	0	0	3.6	27	31	.	53568
B 36	131.3	45.7	14.4	77.2	41	179	128	29.9	2	0	8.0	64	74	.	53569
B 37	101.4	76.6	22.0	90.1	54	243	281	15.0	3	0	7.5	55	65	.	53570
B 38	121.7	67.7	13.9	78.1	41	200	233	1.2	2	0	6.4	46	54	.	53571
B 39	53.1	45.9	7.4	57.5	32	142	196	7.3	2	0	4.0	65	71	.	53572
B 40	153.9	78.1	21.0	71.8	46	217	299	17.2	2	0	5.2	66	73	.	53573
B 41	7.3	28.7	3.6	14.1	0	46	16	1.0	0	0	1.5	14	16	.	53574
B 42	137.6	80.4	31.1	85.9	49	246	320	13.5	3	1.9	8.7	63	76	.	53575
B 43	40.7	65.3	18.7	60.2	38	182	226	11.6	1	2.3	7.0	52	62	.	53576
B 44	103.7	57.3	7.2	42.4	41	148	173	1.3	3	3.2	5.5	40	52	.	53577
B 45	59.1	93.9	7.5	42.4	35	179	207	7.7	2	3.4	4.4	43	53	.	53578
B 46	151.6	83.4	26.4	98.3	64	272	326	13.9	0	2.9	7.3	64	74	.	53579
B 47	91.4	77.6	21.5	76.5	44	220	275	26.0	0	0	7.3	69	77	.	53580
B 48	74.8	47.2	12.4	65.0	38	163	205	3.5	4	0	4.6	63	71	.	53581
B 49	.	99.8	12.3	52.0	24	188	262	.	5	0	7.7	57	70	.	53582
B 50	122.3	84.7	20.6	105.1	117	328	305	1.9	9	0.1	5.4	60	75	.	53583
B 51	42.6	86.4	8.6	33.5	14	143	190	5.5	4	0.1	5.4	39	48	.	53584
B 52	108.4	77.6	32.8	100.5	57	268	298	14.7	2	0.4	9.7	67	80	.	53585
B 53	60.6	65.4	25.0	60.4	28	179	189	15.4	2	0.2	8.0	59	68	.	53586
B 54	103.8	86.2	40.8	116.3	51	295	322	14.9	2	0.3	12.4	66	81	.	53587
B 55	60.9	56.1	19.2	53.3	21	149	180	9.9	2	0.6	6.2	59	68	.	53588
B 56	100.3	60.7	16.8	63.3	28	169	190	16.6	2	0.3	8.2	61	72	.	53589
B 57	69.5	70.5	21.3	68.1	27	187	210	15.2	2	0.3	8.6	69	79	.	53590
B 58	92.4	51.6	18.7	67.8	43	181	148	19.2	2	0.4	6.1	66	75	.	53591
B 59	51.4	55.6	21.0	61.8	23	161	174	14.2	2	0.2	9.0	66	77	.	53592
B 60	60.3	36.7	17.1	53.1	21	128	136	11.9	1	0	8.6	80	90	.	53593

STN	Pb _{org} μg _g ⁻¹	Pb _{WA} μg _g ⁻¹	Pb _{HA} μg _g ⁻¹	Pb _{HHA} μg _g ⁻¹	Pb _R μg _g ⁻¹	Pb _{SUM} μg _g ⁻¹	Pb _T μg _g ⁻¹	Cr _{org} μg _g ⁻¹	Cr _{WA} μg _g ⁻¹	Cr _{HA} μg _g ⁻¹	Cr _{HHA} μg _g ⁻¹	Cr _R μg _g ⁻¹	Cr _{SUM} μg _g ⁻¹	Cr _T μg _g ⁻¹	ID
B 61	62.5	56.5	28.6	76.0	27	188	223	14.0	2	0.5	10.2	73	86	.	53594
B 62	90.3	43.7	13.6	56.1	22	135	144	17.8	2	0	9.3	75	86	.	53595
B 63	34.7	31.3	13.1	58.9	19	122	102	7.9	1	0	8.6	89	98	.	53596
B 64	70.1	36.9	12.8	42.2	15	107	105	14.3	2	0	8.8	68	78	.	53597
B 65	52.0	37.0	15.2	39.5	16	107	118	6.2	1	0	5.5	66	72	.	53598
B 66	103.5	67.5	15.7	60.3	26	169	213	18.2	3	0	9.7	62	74	.	53599
B 67	213.1	157.9	391.0	350.9	111	1011	751	19.0	2	1.6	9.3	62	75	.	53600
B 68	78.5	44.5	18.5	43.0	18	124	123	14.0	2	0.8	7.3	57	67	.	53601
B 69	38.0	34.0	8.0	34.9	17	93	90	8.7	2	0.6	7.1	60	70	.	53602
B 70	51.5	26.5	10.0	32.9	5	74	65	10.1	3	1.5	6.0	54	65	.	53603
B 71	45.0	36.0	13.4	39.0	10	99	89	5.4	1	0	6.2	58	65	.	53604
B 72	38.1	26.9	10.4	31.6	10	79	68	5.1	2	1.5	5.2	61	70	.	53605
B 73	27.6	39.4	21.1	52.1	10	123	258	2.6	1	1.4	6.2	62	71	.	53606
B 74	43.6	36.4	10.6	35.0	10	92	92	6.1	2	0.9	6.1	51	60	.	53607
B 75	32.7	27.3	9.0	22.3	6	65	59	4.6	1	1.2	5.1	46	54	.	53608
B 76	23.2	30.8	9.2	20.4	0	60	24	0.4	1	0.6	3.8	21	26	.	53609
B 77	35.1	23.9	5.4	23.8	13	66	58	6.0	1	0.3	5.1	54	60	.	53610
B 78	32.9	23.1	5.7	23.3	5	57	58	5.7	1	0.4	6.6	61	69	.	53611
B 79	3.9	4.1	1.1	4.3	0	10	16	0.4	1	0	3.6	44	48	.	53612
B 80	17.0	8.0	2.8	13.9	0	25	16	2.2	1	0	5.1	38	44	.	53613
B 81	13.0	5.0	1.5	9.4	3	19	16	1.9	0	0.1	4.3	39	44	.	53614
B 82	3.3	0.7	0.2	1.6	0	3	16	0.1	1	0	2.2	19	22	.	53615
B 83	34.9	23.1	5.3	24.6	0	53	32	4.6	1	0.5	6.5	51	59	.	53616
B 84	47.2	30.8	7.4	41.5	0	80	57	7.7	2	0.2	7.9	56	66	.	53617
B 85	42.8	25.2	4.5	24.3	0	54	31	5.7	1	0.2	6.2	56	64	.	53618
B 86	36.8	27.2	5.0	25.8	0	58	109	5.6	1	0.3	5.7	54	62	.	53619
B 87	22.9	18.1	1.7	16.2	0	36	25	2.9	1	0.5	4.6	51	57	.	53620
B 88	20.9	17.1	1.8	15.8	0	35	26	1.1	1	0.4	4.8	38	45	.	53621
B 89	22.6	19.4	2.6	14.5	0	37	25	3.0	1	0.4	5.3	38	45	.	53622
B 90	25.3	18.7	3.2	16.0	0	38	25	2.4	1	0.3	5.2	50	57	.	53623
B 91	97.9	34.1	8.3	59.8	12	114	147	11.3	1	0	5.3	50	57	.	53624
B 92	101.5	70.5	28.2	82.7	13	195	265	23.0	2	0.6	8.1	59	70	.	53625
B 93	100.4	71.6	28.4	91.4	15	207	295	17.6	1	0.3	8.2	62	72	.	53626
B 94	135.4	54.6	18.9	101.1	41	216	263	22.2	3	0.5	8.8	68	80	.	53627
B 95	51.3	29.7	10.8	35.7	0	76	72	9.1	1	0.2	6.5	54	62	.	53628
B 96	51.5	27.5	9.0	32.9	0	69	55	8.1	1	0.3	6.8	51	59	.	53629
B 97	17.0	13.0	1.8	10.5	0	25	25	3.3	1	0	4.3	39	44	.	53630
B 98	2.3	2.7	0	0.9	0	4	25	1.0	0	0	2.5	15	18	.	53631
B 99	3.7	9.3	0.8	4.4	0	15	25	0.9	0	0	3.3	24	27	.	53632
B 100	13.1	17.9	2.3	11.0	0	31	25	4.0	1	0	4.8	29	35	.	53633
B 101	.	6.1	0.9	3.0	0	10	25	.	1	0.4	3.6	14	19	.	53634
B 102	.	10.2	1.9	5.6	0	18	25	.	1	0.4	3.6	16	21	.	53635
C 1	34.4	21.6	8.1	25.8	0	56	67	5.0	1	0.9	2.9	54	59	.	53301
C 2	35.0	37.0	8.0	26.6	0	72	90	12.1	1	0	3.9	58	63	.	53302
C 3	37.1	44.9	8.0	30.9	0	84	94	10.4	2	0.2	4.4	60	66	.	53303
C 4	54.1	43.9	6.5	36.6	0	87	118	15.4	2	0.4	4.0	53	59	.	53304
C 5	23.9	12.1	1.3	16.0	0	29	22	2.0	2	0	1.6	12	16	.	53305
C 6	66.3	41.7	12.1	50.1	0	104	134	17.4	2	0	6.1	59	67	.	53306
C 7	51.9	45.1	6.8	59.5	27	138	169	23.0	4	0.3	6.5	81	91	.	53307
C 8	75.1	25.9	9.8	61.9	27	124	164	21.8	2	0.5	5.9	75	83	.	53308
C 9	69.1	37.9	11.3	56.1	23	129	156	19.0	2	0.9	5.7	73	82	.	53309
C 10	90.1	3.9	7.9	82.7	42	137	146	16.2	3	1.2	6.0	75	85	.	53310
C 11	23.5	44.5	7.8	23.8	0	76	70	6.7	1	0.1	3.5	27	32	.	53311
C 12	88.6	41.4	9.9	52.7	14	118	145	16.8	2	0.5	3.6	59	65	.	53312
C 13	0	49.1	8.0	57.4	51	165	191	15.6	4	1.0	3.2	67	75	.	53313
C 14	65.0	114.0	14.9	57.1	9	195	207	16.6	3	0.6	5.1	54	63	.	53314
C 15	108.6	58.4	10.3	70.7	34	174	212	21.2	4	0.7	6.0	62	73	.	53315
C 16	102.8	74.2	11.8	61.2	25	173	197	23.6	1	0.9	5.4	61	68	.	53316
C 17	109.8	62.2	27.0	61.0	21	172	194	28.2	3	1.0	6.9	75	85	.	53317
C 18	77.6	37.4	11.8	72.9	111	233	224	22.5	4	0.8	4.2	84	93	.	53318

STN	Pb _{org} μg _g ⁻¹	Pb _{WA} μg _g ⁻¹	Pb _{HA} μg _g ⁻¹	Pb _{HHA} μg _g ⁻¹	Pb _R μg _g ⁻¹	Pb _{SUM} μg _g ⁻¹	Pb _T μg _g ⁻¹	Cr _{org} μg _g ⁻¹	Cr _{WA} μg _g ⁻¹	Cr _{HA} μg _g ⁻¹	Cr _{HHA} μg _g ⁻¹	Cr _R μg _g ⁻¹	Cr _{SUM} μg _g ⁻¹	Cr _T μg _g ⁻¹	ID	
C 19	93.8	94.2	29.0	59.7	24	207	243	18.4	4	0.4	7.0	80	91	.	53319	
C 20	85.8	59.2	14.2	68.0	53	194	194	20.3	4	0.4	4.8	79	88	.	53320	
C 21	47.8	43.2	6.5	62.0	125	236	234	18.0	6	0	4.0	77	87	.	53321	
C 22	67.8	14.2	3.6	16.4	132	166	168	18.2	3	0.1	2.9	66	72	.	53322	
C 23	101.0	65.0	14.1	73.6	58	211	243	20.5	4	0	5.5	74	83	.	53323	
C 24	82.7	52.3	14.4	86.3	39	192	224	20.4	3	0.2	7.0	69	79	.	53324	
C 25	99.2	77.8	14.6	.	.	.	258	19.5	5	0.3	.	.	.	.	53325
C 26	59.2	39.8	3.2	39.7	83	166	175	18.4	2	0.4	3.6	52	57	.	53326	
C 27	87.2	56.8	12.7	62.8	34	166	295	18.9	2	0	5.2	58	65	.	53327	
C 29	57.0	47.0	12.0	44.6	25	129	163	16.2	2	0.5	5.3	62	70	.	53328	
C 30	78.7	48.3	9.8	59.7	40	158	187	20.0	2	0.3	5.5	58	66	.	53329	
C 31	199.4	109.6	26.3	116.6	135	387	582	15.0	3	1.2	4.6	53	61	.	53330	
C 32	117.3	72.7	13.1	81.5	100	267	315	14.1	3	0.8	5.8	56	65	.	53331	
C 33	185.9	127.1	31.9	118.7	131	409	598	19.8	3	0.8	8.5	59	72	.	53332	
C 34	112.7	55.3	11.5	129.5	79	275	337	19.5	4	0.9	8.7	61	74	.	53333	
C 35	432	53334
C 36	37.8	43.2	12.8	74.5	39	170	163	9.3	3	0.6	4.9	59	67	.	53335	
C 37	51.8	35.2	14.7	62.9	32	144	254	10.3	2	1.3	4.2	78	85	.	53336	
C 38	45.3	60.7	18.7	56.9	10	146	141	7.4	3	0	4.2	91	98	.	53337	
C 39	130.8	24.2	5.2	97.2	27	153	178	20.0	3	0	6.2	53	62	.	53338	
C 40	77.2	36.8	7.0	88.7	95	227	387	20.8	3	0	7.5	40	50	.	53339	
C 42	91.8	57.2	8.8	85.7	126	278	311	20.8	4	0	15.2	78	97	.	53340	
C 43	29.8	87.2	26.0	134.4	190	438	393	29.8	2	0	4.6	59	66	.	53341	
C 44	72.9	50.1	4.6	43.5	14	113	135	10.2	4	0	3.3	57	64	.	53342	
C 45	64.5	72.5	19.1	76.5	40	208	253	14.8	4	0	7.5	64	76	.	53343	
C 46	81.6	45.4	10.9	78.5	55	189	212	25.8	5	0	10.5	59	75	.	53344	
C 47	59.8	63.2	13.6	57.5	37	171	173	18.3	3	0	6.7	58	67	.	53345	
C 48	75.5	69.5	12.7	63.3	36	182	209	21.2	4	0.1	8.4	55	68	.	53346	
C 49	0	156.7	45.0	160.9	136	498	696	55.0	5	1.3	16.6	67	90	.	53347	
C 50	71.7	67.3	11.8	57.6	42	179	199	23.2	3	0.8	7.2	74	85	.	53348	
C 51	209.9	19.1	4.5	177.5	136	337	475	29.8	5	0.8	9.0	46	61	.	53349	
C 52	53.8	49.2	12.4	192.5	205	459	486	22.3	4	1.1	21.5	66	92	.	53350	
C 53	89.3	40.7	9.2	87.3	24	161	169	23.4	3	0.7	9.2	47	59	.	53351	
C 54	65.7	58.3	9.6	50.1	10	128	129	18.0	3	0.8	7.5	55	67	.	53352	
C 55	94.6	58.4	11.5	59.5	9	138	154	18.4	4	0.7	7.7	50	62	.	53353	
C 56	54.5	42.5	7.3	40.3	0	90	100	17.1	3	0.6	5.0	46	54	.	53354	
C 57	64.0	31.0	6.0	47.9	6	91	114	14.1	3	0.5	6.3	42	51	.	53355	
C 58	54.9	49.1	6.8	35.7	4	95	107	17.0	3	0.9	6.2	47	57	.	53356	
C 59	65.0	55.0	7.9	46.5	19	128	154	18.6	2	0.7	6.9	55	65	.	53357	
C 60	103.7	56.3	10.7	164.6	59	290	352	28.8	5	1.7	11.8	52	71	.	53358	
C 61	67.2	34.8	6.2	50.5	17	109	129	16.4	3	0.9	6.4	45	55	.	53359	
C 62	43.8	50.2	7.7	33.1	7	98	108	19.2	2	0.3	5.3	47	54	.	53360	
C 63	112.5	47.5	11.5	89.7	34	182	188	20.4	3	0	7.3	47	56	.	53361	
C 64	111.5	80.5	4.1	245.6	129	459	723	77.8	8	0	12.4	41	61	.	53362	
C 65	65.4	86.6	18.0	109.4	96	310	274	18.5	3	0	6.8	21	31	.	53363	
C 66	84.0	34.0	4.4	29.9	4	72	73	26.3	2	0	4.4	31	37	.	53364	
C 67	55.7	25.3	3.3	49.1	6	83	289	9.4	6	0.2	6.4	24	36	.	53365	
C 68	71.9	19.1	0.8	118.4	214	352	306	39.5	5	0.4	9.4	45	59	.	53366	
C 69	2.5	5.5	0.8	3.0	0	9	16	2.0	0	0	2.2	45	47	.	53367	
C 70	30.5	29.5	4.0	21.5	0	55	68	10.3	2	0	4.0	42	47	.	53368	
C 71	0.3	16.7	2.0	8.3	0	27	16	1.5	2	0	2.7	27	31	.	53369	
C 72	282	53370
C 73	95.6	62.4	11.5	57.9	17	149	172	20.5	4	0	6.2	57	67	.	53371	
C 74	98.8	71.2	14.1	66.1	28	180	206	20.4	3	0	5.6	71	79	.	53372	
C 75	123.8	79.2	14.3	95.8	46	236	294	25.2	3	0	6.9	72	81	.	53373	
C 76	145.2	90.8	18.7	98.7	63	272	304	22.7	4	0	4.2	61	70	.	53374	
C 77	64.4	47.6	9.8	45.8	2	105	123	16.6	1	0	4.8	55	62	.	53375	
C 78	73.6	11.4	5.0	49.9	12	79	89	19.5	3	0	5.2	59	66	.	53376	
C 79	27.2	28.8	4.2	21.5	0	55	41	10.0	2	0	4.8	38	44	.	53377	
C 80	12.3	16.7	2.8	7.8	0	27	16	4.3	1	0	3.4	27	31	.	53413	

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C 81	6.2	4.8	0.2	2.8	0	8	16	2.7	0	0.4	0.6	17	18	.	53414
C 82	0.4	2.6	0	1.9	0	5	16	2.0	0	0.2	0	15	16	.	53415
C 83	7.2	10.8	0.5	5.7	0	17	16	4.3	1	0.1	1.7	21	24	.	53416
C 84	3.2	5.8	0.8	2.8	0	9	16	2.0	1	0.4	2.0	23	26	.	53378
C 85	9.9	12.1	1.2	7.5	0	21	16	6.1	1	0.4	3.4	33	37	.	53379
C 86	3.0	6.0	0.3	2.5	0	9	16	1.6	0	0	2.6	22	25	.	53380
C 87	1.3	2.7	0	0.4	0	3	16	1.0	0	0	1.5	16	18	.	53381
C 89	0.9	3.1	0	0.1	0	3	16	0.6	1	0.1	1.7	13	16	.	53382
C 90	1.0	2.0	0	0.9	0	3	16	1.0	0	0	1.9	19	21	.	53383
C 91	0	2.8	0	0.1	0	3	16	0	1	0	1.8	27	30	.	53384
C 92	1.1	3.9	0	0.8	0	5	16	0.6	0	0.3	1.9	13	16	.	53385
C 95	0	2.4	0	0	0	2	16	0	1	0	0.6	6	8	.	53386
C 96	2.5	7.5	0.1	6.0	0	14	16	0	3	0	2.0	5	10	.	53387
C 96A	55.9	36.1	2.8	67.4	18	124	103	10.7	1	0	3.9	21	27	.	53388
C 97	0	2.4	0	1.0	0	3	16	0.4	1	0	0.4	5	6	.	53389
C 98	2.7	4.3	0.1	2.5	0	7	16	0.7	0	0	3.1	21	24	.	53390
C 100	0	4.4	0	0.8	0	5	16	0	3	0	1.0	22	25	.	53391
C 101	1.8	5.2	0	2.5	0	8	16	1.0	0	0	2.4	36	38	.	53392
C 106	0.5	5.5	0.6	1.8	0	8	16	1.0	0	0	1.9	26	28	.	53393
C 108	35.7	26.3	4.0	37.6	1	69	41	13.0	2	0	5.8	54	62	.	53394
C 109	22.1	8.9	2.3	18.0	0	29	16	1.0	0	0	4.5	36	41	.	53395
C 110	54.5	27.5	1.9	44.7	0	74	66	14.6	2	1.1	7.5	50	61	.	53396
C 111	0.4	0.6	0.4	3.5	0	5	16	0	1	0	2.9	81	84	.	53397
C 112	47.0	27.0	3.9	29.8	0	61	136	13.7	2	0	5.8	53	61	.	53398
C 113	27.5	21.5	2.2	32.3	0	56	65	0	2	0.4	5.4	61	69	.	53399
C 114	27.6	11.4	1.4	26.7	3	43	33	8.8	3	0.5	4.3	52	60	.	53400
C 115	.	24.0	2.9	23.4	11	61	52	.	2	0.1	4.1	38	45	.	53401
C 116	.	29.3	3.1	30.8	17	81	73	.	3	0.5	4.0	46	53	.	53402
C 117	37.9	16.4	2.0	18.7	12	50	30	2.4	2	0.4	4.7	35	41	.	53403
C 117A	.	14.0	0	27.0	30	71	53	.	3	0.3	5.3	35	44	.	53404
C 118	19.5	12.5	0.6	10.9	7	31	16	0	1	0	3.0	35	39	.	53405
C 119	.	9.8	0	10.2	6	26	16	.	1	0.1	1.6	26	30	.	53406
C 120	17.8	8.2	0.3	8.9	0	17	16	0.1	1	0	1.9	38	41	.	53407
C 121	11.4	6.6	0	4.3	0	11	16	0	1	0	0.9	31	33	.	53408
C 122	6.2	4.8	0	4.1	0	9	16	0	1	0.1	0.6	30	31	.	53409
C 123	2.4	2.6	0.4	1.2	0	4	16	0	0	0.5	1.1	17	18	.	53410
C 124	7.7	5.6	0.3	4.5	0	10	16	0	1	0.1	1.6	24	26	.	53411
C 125	0.3	0.7	0.1	0.1	0	1	16	1.0	0	0.4	0	18	18	.	53412
C 126	0.5	0.5	0	0	0	1	16	1.0	0	0	0	6	6	.	53417
C 131A	0	2.1	0	0	0	2	16	0	3	0	0.6	24	28	.	53418
P 1	14.0	13.0	3.0	15.9	0	32	28	0.7	0	0.1	1.7	42	44	6	53419
P 6	28.6	17.3	2.8	12.6	0	33	18	1.6	0	0	3.7	49	54	17	53424
P 12	.	.	.	.	.	.	87	.	.	.	.	.	.	26	53430
P 28	86.4	68.6	15.7	49.0	0	133	153	15.0	1	0.1	5.4	54	60	31	53445
P 29	160.2	40.5	15.7	90.1	63	210	209	2.7	4	0	5.9	57	67	47	53446
P 31	141.3	103.4	17.6	62.5	38	221	262	26.1	2	0	6.7	83	91	155	53448
P 32	138.4	79.8	14.3	46.2	9	149	145	0	0	0	5.5	88	93	117	53449
P 42	.	61.5	8.5	51.1	45	166	197	.	1	0	4.9	75	81	127	53457
P 44	126.4	46.6	13.9	90.3	54	205	227	15.7	0	0	6.4	86	93	142	53459
P 47	67.4	28.6	7.8	52.1	41	130	120	7.5	4	0.4	4.8	70	78	105	53462
P 49	102.0	49.6	8.3	54.3	47	159	138	3.7	3	0.8	5.6	75	84	114	53464
P 55	.	76.5	14.6	62.4	49	203	214	.	3	0.3	6.2	93	103	147	53470
P 57	95.9	75.1	20.0	54.1	29	178	188	11.8	3	0	7.6	74	85	105	53494
P 63	169.1	143.9	31.5	74.5	47	297	340	16.4	5	0.1	7.6	90	102	148	53473
P 69	98.8	154.2	26.9	62.9	26	270	280	18.5	6	0.1	7.2	84	96	139	53479
P 73	27.5	35.5	12.0	21.2	6	74	57	1.2	2	0	5.1	117	124	120	53483
P 76	107.6	85.7	14.6	67.4	55	223	215	20.6	3	0	7.4	91	102	104	53486
P 84	1.6	15.4	3.8	6.2	0	25	0	0	0	0	2.6	70	73	62	53493
P 99	119.8	70.2	18.6	82.8	54	226	231	13.0	5	0	10.1	81	96	110	53506
P 103	41.1	61.9	10.4	46.9	1	120	88	11.0	3	0	7.8	45	56	67	53510

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P 104	96.9	91.1	28.7	87.6	53	260	211	27.4	7	0.4	12.5	77	96	112	53511
P 106	67.1	67.9	16.8	46.6	17	148	155	17.4	5	0.2	8.2	87	100	88	53513
P 107	23.8	83.2	23.1	39.8	10	156	134	10.8	2	2.4	6.4	81	92	93	53514
P 108	91.4	99.6	26.8	64.6	38	229	222	16.8	1	1.5	6.9	92	101	91	53515
P 111	61.6	92.4	20.2	49.1	24	186	172	18.5	4	1.8	8.3	92	106	99	53518
P 115	67.3	85.7	38.3	87.0	56	267	234	15.5	3	1.8	4.2	81	90	87	53522
P 116	83.9	46.1	15.5	40.6	25	127	112	12.9	2	1.2	4.5	83	91	81	53523
P 118	62.3	45.9	9.2	33.3	23	111	87	18.4	3	0.2	4.1	84	91	78	53525
P 123	57.9	45.1	11.4	31.8	15	104	95	11.5	2	0	4.5	74	80	88	53530
P 126	93.2	12.8	11.6	52.6	40	117	86	32.9	1	0	4.5	88	94	82	61202
P 129	46.2	23.8	7.4	34.4	27	93	68	13.0	2	0.7	4.7	68	75	91	61205
P 135	46.4	15.6	7.2	30.0	13	66	52	8.9	1	0.1	3.6	46	50	68	61211
P 137	27.4	11.9	5.7	27.8	21	66	44	5.0	2	0.2	3.8	57	62	83	61213
P 147	13.0	34.0	5.6	19.7	7	66	49	2.7	0	0.4	2.7	50	53	85	61223
P 152	136.1	4.4	10.0	76.4	51	142	120	7.9	3	0	5.1	46	54	91	61225
P 153	.	11.5	11.9	72.4	66	162	148	.	4	0	5.0	46	55	90	61226
P 154	.	5.9	12.2	102.9	65	186	168	.	4	0	6.8	30	41	89	61227
P 155	.	4.5	12.4	103.0	62	182	174	.	4	0	5.6	27	37	92	61228
P 156	188.1	13.9	17.8	115.9	86	234	223	15.6	4	0	5.5	100	110	100	61229
P 157	.	10.8	14.3	94.2	75	194	195	.	5	0	5.7	87	97	102	61230
P 158	96.0	71.0	13.0	53.9	49	187	176	21.0	4	0	4.7	87	95	89	53532
P 159	.	63.1	18.2	85.2	79	246	239	.	3	0	5.7	82	91	94	53533
P 160	183.2	19.3	14.7	103.2	100	237	241	6.5	4	0	4.1	84	92	124	61231
P 170	.	0	2.5	43.7	27	73	60	.	3	0	4.4	80	87	108	61239
P 172	4.5	1.5	0.5	4.0	0	6	0	0	1	0	1.0	41	42	36	61241
P 173	43.9	24.1	8.9	38.3	27	98	79	6.6	4	0	4.2	72	80	94	61242
P 177	24.5	15.5	3.4	19.5	0	38	34	8.5	2	0.1	3.4	65	70	79	61246
P 190	52.8	37.9	7.7	32.8	13	92	94	9.3	2	0	3.3	62	68	100	61255
P 201	23.0	25.0	5.4	17.4	0	48	37	6.1	1	0	2.3	59	62	69	61261
P 209	7.1	4.9	2.7	5.3	0	13	0	0.9	0	0	0.9	26	27	38	61269
P 217	17.3	9.7	3.0	13.4	0	26	8	6.9	1	0	2.3	69	72	69	61277
P 218	24.4	7.6	3.5	12.3	0	23	10	9.4	1	0	1.7	66	68	61	61278
P 222	12.6	5.4	3.0	6.4	0	15	0	4.7	0	0.1	1.3	32	34	49	61282
P 228	1.0	0	1.1	0.2	0	1	0	1.0	0	0	0	58	58	13	61288

STN	Si _R	Si _T	Al _R	Al _T	Mg _R	Mg _T	K _R	K _T	Ti _T	Li _T	Cd _T	Hg _T	Residue	CaCO ₃	C _{Org}	ID
	%	%	%	%	%	%	%	%	%	μgg ⁻¹	μgg ⁻¹	μgg ⁻¹	mg	%	%	
B 1	24.99	32.14	6.16	5.11	0.39	0.62	1.45	1.65	0.417	79	0.25	0.15	886	0	2.57	53534
B 2	23.23	28.69	7.42	7.51	0.57	1.01	1.83	2.72	0.453	92	0.29	0.35	852	0.25	3.21	53535
B 3	23.39	25.21	6.99	6.34	0.48	0.93	2.84	2.23	0.396	71	0.64	0.70	829	3.00	5.99	53536
B 4	24.07	26.13	5.95	7.27	0.49	1.01	2.14	2.49	0.406	67	0.38	0.79	801	3.08	6.44	53537
B 5	24.53	25.92	12.72	6.50	0.48	0.95	3.23	2.11	0.404	68	0.38	0.80	821	4.00	6.04	53538
B 6	23.85	26.79	12.04	7.19	0.44	1.06	4.03	2.63	0.442	78	0.25	0.77	835	1.17	5.44	53539
B 7	28.36	38.27	3.12	3.06	0.16	0.31	2.11	1.31	0.295	40	0	0.23	915	0.67	1.34	53540
B 8	22.62	31.98	4.27	5.45	0.40	0.79	2.82	2.44	0.341	66	0.28	0.66	833	8.17	3.36	53541
B 9	22.69	29.25	5.14	5.14	0.55	0.86	3.99	2.27	0.352	65	0.49	0.90	878	7.42	3.53	53542
B 10	16.21	26.61	4.80	6.66	0.50	1.07	4.15	2.45	0.396	68	0.54	1.10	799	2.00	5.48	53543
B 11	15.92	24.54	5.32	7.53	0.63	1.19	3.79	3.05	0.389	78	0.71	1.07	783	4.33	5.19	53544
B 12	13.99	26.13	4.53	6.87	0.54	1.13	4.21	2.80	0.388	74	0.51	0.90	812	2.75	5.02	53545
B 13	14.11	24.88	3.83	6.65	0.54	1.16	4.22	2.65	0.417	83	0.63	1.06	784	2.83	5.06	53546
B 14	16.66	23.48	5.72	6.76	0.62	1.25	3.91	2.74	0.381	74	1.08	0.90	759	1.58	5.24	53547
B 15	15.48	22.52	5.03	6.74	0.63	1.23	3.71	2.70	0.370	70	1.10	1.51	787	2.42	5.73	53548
B 16	19.67	23.05	8.11	7.73	0.61	1.25	2.92	2.87	0.401	65	0.79	0.94	732	2.42	4.83	53549
B 17	23.08	24.24	8.75	6.77	0.63	1.13	2.90	2.58	0.390	76	0.57	1.17	837	2.58	6.59	53550
B 18	21.26	24.11	7.41	7.02	0.64	1.24	2.65	2.68	0.360	76	0.88	1.49	794	2.50	5.47	53551
B 19	22.08	26.24	5.91	5.27	0.42	1.06	1.88	1.76	0.318	61	2.07	1.39	799	14.92	6.41	53552
B 20	25.59	37.20	4.66	3.75	0.39	0.52	1.56	1.22	0.280	49	0.84	0.44	879	0.58	3.61	53553
B 21	26.27	34.78	10.24	5.88	0.67	0.89	3.21	2.72	0.291	53	0.41	0.34	943	0	0.79	53554
B 22	17.27	24.02	9.25	7.03	0.51	1.22	2.21	2.42	0.340	396	0	1.78	647	0	3.19	53555
B 23	22.50	26.58	9.68	6.02	0.61	1.18	2.14	2.31	0.312	84	0.96	1.39	800	2.08	6.08	53556
B 24	20.37	24.49	9.95	5.60	0.62	0.92	2.62	2.06	0.313	83	1.03	1.78	788	4.17	5.33	53557
B 25	21.98	25.61	9.35	6.81	0.68	1.02	2.97	2.37	0.315	88	4.35	0.85	824	6.92	5.02	53558
B 26	22.11	28.24	7.60	6.40	0.53	1.01	2.25	2.16	0.318	76	0.40	0.85	808	0.75	5.67	53559
B 27	20.65	24.06	7.69	7.12	0.62	1.08	2.41	2.54	0.344	93	0.85	1.38	833	3.50	5.54	53560
B 28	18.04	23.69	7.90	7.18	0.59	1.35	2.67	2.21	0.351	87	0.75	1.33	761	1.67	5.32	53561
B 29	28.06	36.34	4.50	3.56	0.22	0.31	1.38	1.09	0.268	46	0.69	0.44	917	0.58	1.76	53562
B 30	20.01	25.82	7.88	6.77	0.58	1.00	3.18	2.45	0.322	86	1.58	1.26	798	1.00	5.12	53563
B 31	17.68	24.72	7.70	6.82	0.52	1.07	2.77	2.40	0.345	90	1.35	1.15	782	2.33	5.32	53564
B 32	23.49	36.46	5.90	4.05	0.34	0.51	1.80	1.16	0.289	54	0.46	0.03	917	0	2.35	53565
B 33	17.73	26.89	5.33	6.13	0.46	0.90	1.71	2.32	0.415	56	0.89	3.02	832	18.08	7.35	53566
B 34	19.37	31.00	4.01	5.13	0.38	0.69	1.80	1.96	0.367	51	0.82	1.27	838	0	3.90	53567
B 35	22.19	36.13	3.18	3.77	0.20	0.40	1.47	1.29	0.378	40	0.62	0.34	909	0	1.61	53568
B 36	18.84	25.43	4.77	6.80	0.49	1.08	2.40	2.94	0.397	53	0.61	0.99	811	4.67	5.29	53569
B 37	19.46	24.89	5.64	6.63	0.68	1.18	1.75	2.92	0.411	50	0.77	1.27	804	2.33	5.58	53570
B 38	18.14	25.38	5.48	6.11	0.71	1.08	1.73	2.92	0.401	56	0.45	0.99	750	2.75	5.12	53571
B 39	20.64	27.74	9.15	6.03	0.81	0.85	1.71	2.25	0.334	52	0.27	0.76	856	12.33	3.86	53572
B 40	18.69	25.35	6.54	6.90	0.73	1.07	1.66	2.34	0.421	57	0.59	1.40	821	15.75	5.48	53573
B 41	26.92	39.92	1.19	0.54	0.07	0.01	0.20	0.16	0.039	10	0.12	0.25	934	0	2.82	53574
B 42	19.46	26.71	7.23	6.47	0.65	1.02	1.48	2.46	0.457	58	1.59	1.65	823	3.33	5.47	53575
B 43	21.74	28.88	5.69	5.17	0.59	0.67	1.48	1.85	0.374	55	1.11	0.91	834	2.58	4.68	53576
B 44	19.11	28.98	4.50	3.59	0.43	0.42	1.07	1.29	0.256	38	0.60	0.84	806	6.08	3.45	53577
B 45	18.00	25.10	4.93	4.46	0.40	0.56	1.02	1.37	0.294	46	0.83	1.53	747	21.58	4.90	53578
B 46	17.20	26.15	5.24	6.25	0.65	1.03	1.78	2.44	0.461	52	1.52	0.76	797	0.75	5.39	53579
B 47	19.59	26.51	6.70	6.08	0.71	1.06	1.69	2.77	0.430	74	1.23	1.12	807	2.08	5.41	53580
B 48	18.70	28.68	7.17	6.30	0.69	0.86	1.71	2.25	0.384	56	0.45	0.86	893	18.58	4.78	53581
B 49	12.41	24.13	4.85	6.98	0.51	1.06	1.18	2.55	0.446	40	0	0.93	582	4.00	5.06	53582
B 50	18.95	27.94	6.09	5.37	0.92	0.82	1.59	2.37	0.444	79	1.51	0.62	826	13.17	3.92	53583
B 51	17.52	25.48	4.07	3.99	0.40	0.51	1.11	1.46	0.263	38	0.42	1.07	721	27.50	2.80	53584
B 52	18.55	26.56	7.17	6.61	0.62	0.93	1.64	2.14	0.487	53	2.12	2.19	862	1.92	5.37	53585
B 53	15.50	30.33	5.49	6.24	0.42	0.78	2.34	2.25	0.463	43	0.22	1.44	849	1.25	4.07	53586
B 54	19.16	26.42	7.22	6.88	0.62	0.94	2.12	2.13	0.465	53	1.96	4.17	854	1.58	5.95	53587
B 55	18.21	30.02	6.04	6.08	0.52	0.82	2.24	2.28	0.451	43	1.10	0.98	860	0	3.92	53588
B 56	15.99	26.85	6.61	6.43	0.60	0.94	1.92	2.20	0.453	46	1.30	1.07	791	0.58	4.47	53589
B 57	14.53	26.37	6.54	6.75	0.66	0.99	1.61	2.43	0.446	56	1.13	1.26	808	0	4.86	53590
B 58	12.73	27.59	6.38	6.54	0.54	0.90	2.35	2.26	0.450	58	1.09	1.30	829	2.50	5.29	53591
B 59	16.90	27.37	6.94	6.97	0.73	0.90	1.58	2.27	0.456	58	1.30	1.30	841	1.92	4.64	53592
B 60	18.29	27.94	6.41	6.80	0.56	0.92	2.68	2.52	0.456	60	1.04	1.12	865	0	3.87	53593

STN	Si _R	Si _T	Al _R	Al _T	Mg _R	Mg _T	K _R	K _T	Ti _T	Li _T	Cd _T	Hg _T	Residue	CaCO ₃	C _{org}	ID
	%	%	%	%	%	%	%	%	%	μgg ⁻¹	μgg ⁻¹	μgg ⁻¹	mg	%	%	
B 61	15.63	27.59	6.58	7.41	0.59	1.01	2.60	2.92	0.462	61	1.49	1.20	825	2.42	4.38	53594
B 62	18.24	26.44	6.94	6.95	0.71	0.97	1.65	2.25	0.453	62	0.95	0.96	811	1.83	4.28	53595
B 63	16.68	28.16	8.03	6.57	0.61	0.89	2.95	2.28	0.467	62	0.79	0.80	851	2.83	4.22	53596
B 64	15.36	28.89	7.67	6.42	0.43	0.87	2.49	2.65	0.456	52	0.77	0.94	836	2.58	3.90	53597
B 65	17.36	29.41	7.42	6.67	0.45	0.90	1.78	2.56	0.467	52	0.43	1.42	864	3.75	3.59	53598
B 66	15.63	27.58	8.67	7.09	0.61	0.79	1.81	2.71	0.331	51	1.09	1.64	835	4.17	5.20	53599
B 67	16.39	27.67	6.24	5.77	0.53	0.77	2.34	2.06	0.328	46	1.04	1.00	835	1.42	4.83	53600
B 68	13.72	27.11	7.73	7.19	0.39	0.88	2.87	2.23	0.327	51	0.72	0.78	819	2.75	4.22	53601
B 69	14.93	27.18	6.69	7.02	0.40	0.90	2.56	2.13	0.329	49	0.51	0.58	827	0.75	3.73	53602
B 70	15.37	29.31	6.40	5.62	0.36	0.75	1.68	2.24	0.322	53	0.76	0.66	823	2.00	3.12	53603
B 71	14.63	29.37	6.17	7.04	0.33	0.85	2.49	2.50	0.324	54	0.50	0.88	857	1.92	3.49	53604
B 72	17.40	28.86	7.40	6.88	0.37	0.86	2.32	2.31	0.328	19	0.56	0.56	853	.	.	53605
B 73	17.32	28.50	7.06	6.34	0.29	0.69	1.97	2.03	0.320	51	0.63	0.70	843	0	4.07	53606
B 74	15.21	27.55	7.51	6.21	0.40	0.83	2.10	2.34	0.324	41	0.85	0.76	802	2.25	3.89	53607
B 75	23.60	37.73	6.83	3.69	0.30	0.31	1.41	1.56	0.269	47	0.31	0.56	871	5.58	2.58	53608
B 76	24.52	34.87	3.38	4.64	0.14	0.62	1.15	2.41	0.317	37	0.21	0.18	913	2.67	1.12	53609
B 77	10.84	27.97	7.34	5.97	0.37	0.86	1.60	2.04	0.327	48	0.52	0.41	782	2.92	3.40	53610
B 78	14.23	29.50	6.46	6.57	0.36	0.90	1.67	2.26	0.330	52	0.59	0.35	801	1.83	2.97	53611
B 79	26.01	35.72	4.23	3.60	0.11	0.36	1.13	1.49	0.300	42	0.26	0.14	885	4.25	0.93	53612
B 80	21.69	31.26	5.77	4.51	0.11	0.58	1.22	1.67	0.321	41	0.63	0.19	880	1.42	2.33	53613
B 81	26.57	33.92	6.56	4.44	0.14	0.53	1.29	1.58	0.326	41	0.95	0.10	887	1.33	2.05	53614
B 82	29.35	36.92	3.13	3.24	0.06	0.18	0.79	0.99	0.312	24	0.34	0.05	914	0.83	0.96	53615
B 83	15.63	29.63	5.35	5.80	0.07	0.80	2.92	2.27	0.442	59	0.42	0.36	851	3.17	2.92	53616
B 84	15.53	28.99	5.28	5.87	0.08	0.74	2.56	2.56	0.433	56	0.59	0.55	808	3.50	3.77	53617
B 85	14.80	29.66	4.17	5.68	0.03	0.78	2.69	2.33	0.419	57	0.38	0.46	843	2.50	3.09	53618
B 86	17.98	30.20	4.29	5.19	0.05	0.66	2.51	2.62	0.425	57	0.54	0.39	835	3.25	2.96	53619
B 87	22.17	31.42	4.94	4.59	0.05	0.72	2.41	2.02	0.399	53	0.31	0.25	865	2.25	2.64	53620
B 88	20.94	34.89	4.36	3.47	0.01	0.41	2.20	1.59	0.375	43	0.21	0.24	873	4.33	2.08	53621
B 89	22.51	25.85	6.07	6.82	0	0.96	2.19	2.40	0.421	62	0.27	0.28	864	2.25	2.21	53622
B 90	23.28	25.84	7.31	5.22	0	0.74	2.51	1.85	0.357	65	0.31	0.38	855	0	2.55	53623
B 91	20.91	32.92	6.86	5.51	0	0.67	2.13	1.88	0.393	69	1.78	3.10	794	0	7.73	53624
B 92	18.62	32.50	8.12	5.11	0.05	0.62	2.94	1.70	0.396	79	2.08	1.98	823	0.50	6.01	53625
B 93	18.60	25.37	8.95	7.80	0.16	0.98	2.91	2.35	0.407	76	0.96	1.65	814	0	5.91	53626
B 94	16.39	24.25	7.48	7.30	0.04	0.93	3.12	2.71	0.379	72	1.77	1.51	768	4.00	5.92	53627
B 95	19.47	30.30	6.91	6.59	0.02	0.83	3.08	2.25	0.417	68	0.47	0.60	863	0.17	3.61	53628
B 96	18.96	28.61	6.19	6.17	0	0.80	2.79	2.17	0.405	64	0.27	0.46	844	1.25	3.52	53629
B 97	16.21	31.52	5.01	4.71	0	0.59	1.84	1.98	0.356	56	0.16	0.18	789	4.75	2.22	53630
B 98	26.03	38.40	4.25	3.07	0	0.28	1.71	1.25	0.294	33	0	0.01	940	1.67	0.41	53631
B 99	22.94	36.94	5.06	3.36	0	0.36	2.14	1.46	0.386	34	0.09	0.10	906	2.83	1.01	53632
B 100	24.79	31.48	4.88	4.45	0.02	0.65	1.86	1.78	0.403	35	0.12	0.23	821	4.50	2.31	53633
B 101	25.93	37.71	3.45	3.09	0	0.32	1.33	1.03	0.364	29	0.04	0.04	888	2.08	0.70	53634
B 102	25.40	38.63	4.10	3.34	0	0.28	1.41	1.27	0.400	28	.	0.08	895	1.58	1.04	53635
C 1	24.97	27.32	6.77	6.25	0.32	0.93	3.32	2.97	0.375	71	0.88	0.17	878	0.42	2.70	53301
C 2	19.03	27.34	5.80	7.37	0.50	1.10	2.88	3.23	0.416	80	0.81	0.26	841	1.17	3.15	53302
C 3	21.01	26.10	7.16	7.55	0.59	1.12	3.15	3.49	0.371	107	0.85	0.37	826	2.75	3.49	53303
C 4	16.38	25.97	4.23	6.83	0.55	1.09	1.88	3.36	0.380	100	0.88	0.45	802	2.08	4.43	53304
C 5	22.83	32.69	3.90	3.94	0.08	0.54	2.54	1.71	0.300	59	0.46	0.18	877	0.08	3.22	53305
C 6	14.95	25.12	5.51	7.40	0.47	1.15	3.33	3.63	0.379	89	1.21	0.57	817	2.08	4.71	53306
C 7	15.80	23.74	6.98	6.52	0.49	1.10	2.93	2.74	0.427	43	0.89	2.19	783	1.75	7.33	53307
C 8	19.79	23.74	7.56	7.10	0.44	1.16	3.32	3.20	0.425	57	2.31	1.18	811	3.50	6.23	53308
C 9	18.90	22.30	6.40	6.71	0.44	1.09	3.09	2.94	0.380	91	1.85	0.80	810	2.67	5.79	53309
C 10	13.50	23.65	8.12	7.41	0.52	1.24	3.13	3.34	0.391	54	1.37	0.68	770	2.42	5.27	53310
C 11	18.16	32.53	5.70	3.82	0.06	0.50	3.41	1.76	0.281	42	0.12	0.39	890	0	2.00	53311
C 12	21.18	26.54	7.58	5.01	0.24	0.83	3.83	2.38	0.341	61	0.45	0.89	839	0	4.84	53312
C 13	19.48	23.46	7.20	6.02	0.36	1.12	2.97	2.92	0.379	60	0.40	0.80	757	1.42	5.01	53313
C 14	14.47	24.11	6.48	5.05	0.34	0.86	3.01	2.61	0.334	41	0.32	1.49	781	2.17	5.02	53314
C 15	14.08	26.89	3.70	4.96	0.36	0.99	2.55	2.44	0.354	39	0.46	1.05	760	2.92	5.25	53315
C 16	24.15	24.67	7.11	5.36	0.58	0.83	2.19	2.14	0.340	61	1.17	1.65	748	0.58	6.39	53316
C 17	20.29	26.11	6.61	6.03	0.34	1.05	2.41	2.74	0.380	52	1.96	1.57	739	2.17	6.41	53317
C 18	26.31	22.62	3.33	6.25	0.55	1.19	3.11	2.66	0.367	49	1.64	1.01	751	2.00	5.75	53318

STN	Si _R	Si _T	Al _R	Al _T	Mg _R	Mg _T	K _R	K _T	Ti _T	Li _T	Cd _T	Hg _T	Residue	CaCO ₃	C _{org}	ID
	%	%	%	%	%	%	%	%	%	μgg ⁻¹	μgg ⁻¹	μgg ⁻¹	mg	%	%	
C 19	28.57	23.04	3.05	7.77	0.68	1.13	3.12	2.83	0.370	71	0.45	1.11	773	0	5.24	53319
C 20	25.46	22.46	2.19	7.03	0.64	1.23	2.73	2.85	0.351	56	0.39	0.99	736	1.58	5.54	53320
C 21	22.72	23.20	10.12	7.88	0.45	1.27	3.07	2.99	0.361	64	0.55	0.99	729	1.25	5.30	53321
C 22	15.47	20.29	6.21	6.08	0.56	1.04	1.34	2.47	0.285	54	0.42	0.74	699	5.33	5.77	53322
C 23	15.69	23.22	9.13	7.11	0.50	1.13	2.91	3.30	0.384	72	1.72	1.01	795	1.33	4.89	53323
C 24	13.40	25.49	8.18	7.52	0.50	1.23	2.79	3.24	0.374	55	1.68	0.95	739	1.67	4.80	53324
C 25	.	24.60	.	7.31	.	1.19	.	2.69	0.411	99	0.48	0.95	.	1.83	5.33	53325
C 26	16.53	26.01	6.11	5.65	0.23	1.08	2.66	2.16	0.349	70	1.58	0.85	716	3.67	4.47	53326
C 27	13.76	28.26	8.06	5.69	0.24	0.83	2.74	2.33	0.354	69	1.32	1.89	814	0	4.87	53327
C 29	14.30	27.97	8.67	6.54	0.34	0.93	3.01	2.85	0.360	77	0.60	0.72	819	0	4.96	53328
C 30	13.64	27.03	8.85	6.02	0.28	1.00	3.08	2.57	0.355	62	0.86	1.42	790	0.58	4.95	53329
C 31	15.14	29.07	7.46	5.53	0.25	0.67	2.44	2.01	0.424	74	0.48	0.89	836	2.42	5.25	53330
C 32	27.15	29.04	4.97	5.39	0.50	0.64	2.57	1.89	0.381	70	0.53	0.68	841	1.67	5.09	53331
C 33	28.33	26.70	7.01	5.28	0.32	0.65	2.80	1.80	0.380	63	0.89	1.42	837	0	5.44	53332
C 34	26.57	29.09	7.01	5.82	0.45	0.88	2.79	2.65	0.376	53	1.32	1.26	798	0.17	5.25	53333
C 35	.	17.70	.	4.12	.	0.96	.	1.14	0.307	34	1.07	1.85	.	0	11.80	53334
C 36	29.62	30.08	5.93	5.42	0.34	0.72	2.90	2.13	0.331	39	1.50	1.77	869	0	5.92	53335
C 37	35.92	31.16	6.52	5.80	0.43	0.72	3.54	1.98	0.341	35	0.76	1.36	902	12.67	4.30	53336
C 38	27.67	31.61	7.35	6.03	0.58	0.72	4.08	2.50	0.341	39	0.63	1.36	908	0	4.91	53337
C 39	26.26	31.50	5.42	5.14	0.18	0.70	2.62	2.02	0.308	30	1.32	0.97	813	15.67	5.52	53338
C 40	24.51	30.90	5.26	4.86	0.17	0.59	1.71	1.86	0.305	26	0.22	2.63	863	11.58	6.51	53339
C 42	23.78	28.75	5.76	4.20	0.32	0.49	1.76	1.48	0.318	16	0.38	0.91	805	0	7.80	53340
C 43	27.32	34.76	6.35	4.61	0.19	0.40	2.25	1.76	0.339	53	1.07	1.20	888	0	5.86	53341
C 44	21.69	30.49	7.15	4.10	0.36	0.46	2.19	1.42	0.251	16	0.61	0.94	756	11.83	3.58	53342
C 45	23.81	30.28	7.01	5.79	0.37	0.68	2.72	2.20	0.394	48	1.23	0.94	844	0	5.65	53343
C 46	20.41	29.46	6.18	5.45	0.40	1.00	2.78	2.33	0.379	43	1.62	1.40	769	0.42	5.54	53344
C 47	17.13	30.55	7.26	5.82	0.40	0.73	3.08	2.22	0.374	59	1.31	1.71	841	0	4.27	53345
C 48	32.66	28.57	7.08	5.55	0.63	0.74	2.73	2.27	0.380	48	1.71	1.47	804	2.92	5.27	53346
C 49	32.13	28.66	7.30	5.80	0.59	0.67	2.61	2.27	0.387	56	1.64	2.70	817	0	6.61	53347
C 50	28.39	28.65	7.49	6.00	0.69	0.86	2.74	2.78	0.392	43	0.93	1.20	789	0	5.17	53348
C 51	23.44	24.06	5.91	5.36	0.45	0.88	2.18	1.73	0.367	45	5.26	3.18	675	0.25	8.71	53349
C 52	33.32	29.05	8.51	6.65	0.58	0.63	3.09	2.13	0.471	59	3.25	2.00	877	1.33	3.88	53350
C 53	24.80	27.56	6.18	5.13	0.17	0.78	2.03	1.88	0.287	48	1.25	2.19	823	0	5.05	53351
C 54	19.14	26.73	6.73	5.74	0.32	0.92	2.32	2.26	0.310	55	0.79	1.24	800	0	4.65	53352
C 55	24.12	26.08	7.17	5.57	0.16	0.94	2.82	2.36	0.314	55	1.01	1.04	795	0	4.82	53353
C 56	20.85	26.62	5.96	5.11	0.08	0.90	2.13	2.43	0.354	50	0.70	0.92	792	3.17	4.31	53354
C 57	22.81	27.21	6.15	6.42	0.12	0.99	2.04	2.60	0.370	47	0.54	0.90	746	0	4.24	53355
C 58	18.62	25.85	6.62	5.47	0.14	0.94	2.28	2.74	0.348	47	0.94	0.74	778	1.00	4.57	53356
C 59	19.28	26.63	6.99	6.18	0.43	1.04	4.21	2.47	0.350	64	0.97	1.04	772	2.42	4.37	53357
C 60	19.78	28.42	6.18	5.16	0.28	0.78	4.69	2.01	0.363	57	3.35	1.42	817	7.17	5.21	53358
C 61	13.57	26.06	5.25	6.32	0.42	1.06	2.79	2.39	0.341	56	0.68	0.94	757	0.92	5.06	53359
C 62	25.05	26.76	7.94	7.09	0.17	1.08	6.14	2.38	0.362	54	0.55	0.68	798	1.75	4.03	53360
C 63	15.20	25.69	5.55	6.44	0.22	0.95	3.14	2.03	0.338	60	1.28	1.06	802	3.00	5.09	53361
C 64	16.25	21.37	5.45	4.51	0.10	0.74	3.73	1.66	0.305	52	4.14	10.58	770	5.00	11.96	53362
C 65	23.45	26.09	6.09	4.61	0.12	0.68	5.08	1.92	0.302	52	1.31	3.06	856	0	6.97	53363
C 66	21.77	24.39	6.82	5.11	0.14	0.84	5.05	2.05	0.316	48	0.54	0.46	814	1.58	4.07	53364
C 67	26.73	26.63	6.53	4.71	0.16	0.79	5.21	2.12	0.316	44	0.53	0.58	827	10.58	3.61	53365
C 68	26.38	32.53	5.48	3.75	0.05	0.61	4.20	1.62	0.259	37	1.54	2.78	841	0	4.23	53366
C 69	30.56	35.96	7.42	5.18	0.10	0.48	6.61	2.59	0.325	93	0.02	0.06	938	1.25	0.43	53367
C 70	27.89	31.21	6.71	5.10	0.13	0.86	5.05	2.25	0.310	26	0.30	0.41	816	2.92	3.24	53368
C 71	31.93	37.00	4.43	3.29	0.08	0.38	4.20	1.44	0.244	24	0.24	0.17	897	1.83	1.22	53369
C 72	.	22.93	.	4.88	.	0.93	.	1.92	0.246	21	1.03	2.27	.	7.33	10.06	53370
C 73	20.49	25.02	7.41	5.83	0.11	1.08	5.39	2.51	0.293	49	1.11	1.26	735	2.50	5.79	53371
C 74	22.46	24.38	7.09	5.83	0.30	1.04	4.65	2.61	0.293	45	1.00	1.10	749	2.58	5.63	53372
C 75	23.20	24.87	7.59	6.60	0.25	1.12	5.76	2.63	0.295	73	1.62	1.30	787	2.17	6.29	53373
C 76	20.92	24.27	7.75	6.01	0.21	0.97	5.30	2.24	0.285	102	1.09	0.86	764	3.00	6.18	53374
C 77	20.38	26.51	8.31	6.51	0.25	0.96	5.96	2.16	0.344	59	1.05	0.68	816	0.75	4.26	53375
C 78	17.69	26.50	6.55	7.58	0.20	1.09	4.97	3.20	0.327	56	0.92	0.59	763	3.00	6.05	53376
C 79	11.76	29.63	6.45	5.87	0.14	0.93	5.73	2.01	0.342	42	0.50	0.45	818	4.00	3.02	53377
C 80	24.38	36.64	3.66	3.84	0.19	0.51	1.44	1.67	0.372	32	0.25	0.18	886	0	1.69	53413

STN	Si _R	Si _T	Al _R	Al _T	Mg _R	Mg _T	K _R	K _T	Ti _T	Li _T	Cd _T	Hg _T	Residue	CaCO ₃	C _{org}	ID
	%	%	%	%	%	%	%	%	%	μgg ⁻¹	μgg ⁻¹	μgg ⁻¹	mg	%	%	
C 81	19.36	38.25	2.76	3.48	0.17	0.41	0.85	1.21	0.352	11	0.11	0.18	886	3.42	1.19	53414
C 82	22.80	38.65	2.44	2.81	0.13	0.26	0.74	0.93	0.335	8	0.11	0.06	908	2.25	0.21	53415
C 83	17.56	35.72	4.44	4.06	0.24	0.53	1.31	1.44	0.413	21	0.13	0.62	847	2.58	1.69	53416
C 84	27.79	37.72	4.45	2.93	0.10	0.31	3.73	1.07	0.310	27	0.18	0.06	913	1.75	0.85	53378
C 85	16.20	35.08	4.97	3.90	0.09	0.50	4.88	1.65	0.295	29	0.36	0.10	859	3.25	2.06	53379
C 86	17.53	36.70	3.76	3.00	0.06	0.26	3.51	1.26	0.291	18	0.11	0.03	906	2.33	0.73	53380
C 87	24.97	38.55	3.31	2.48	0.08	0.21	2.45	1.03	0.418	26	0.01	0.02	909	7.08	0.27	53381
C 89	16.29	34.42	2.60	2.62	0.06	0.26	2.70	1.68	0.155	35	0	0.02	605	8.00	0.16	53382
C 90	25.60	37.49	3.31	2.37	0.09	0.22	2.78	0.91	0.512	15	0.04	0.01	931	1.50	0.18	53383
C 91	28.35	35.91	6.96	4.44	0.04	0.22	6.61	2.05	0.104	70	0.04	0.04	857	8.50	0.43	53384
C 92	18.88	36.69	4.28	2.99	0.03	0.25	3.54	1.16	0.222	31	0	0.03	895	2.17	0.40	53385
C 95	30.16	33.20	7.14	4.91	0.03	0.05	7.21	3.79	0.030	64	0	0.08	878	6.50	0.14	53386
C 96	19.19	29.38	5.74	3.53	0.02	0.16	5.35	1.89	0.110	51	0.19	0.05	683	21.75	0.60	53387
C 96A	24.33	29.57	6.62	4.37	0.04	0.51	5.75	2.21	0.173	50	1.16	0.59	821	0	3.88	53388
C 97	24.51	30.67	6.75	5.41	0.05	0.08	7.80	4.70	0.008	55	0	0.03	879	13.75	0.09	53389
C 98	23.18	35.39	4.19	2.83	0.05	0.27	3.16	1.06	0.257	36	0	0.17	843	5.33	0.69	53390
C 100	17.17	32.62	5.88	2.70	0.03	0.06	6.32	1.90	0.032	64	0	0.58	697	18.33	0.48	53391
C 101	19.83	36.74	4.83	3.00	0.03	0.34	3.71	1.30	0.282	34	0	0.20	870	3.17	0.70	53392
C 106	30.80	37.27	4.28	2.91	0	0.22	3.02	1.00	0.354	33	0	0.06	924	1.67	0.47	53393
C 108	20.53	29.33	7.27	5.06	0.02	0.77	4.98	1.72	0.323	43	0.35	0.41	820	0.50	3.75	53394
C 109	28.20	37.23	6.42	3.61	0	0.33	5.10	1.40	0.293	43	0.49	0.36	905	0.75	1.48	53395
C 110	13.92	28.33	7.47	5.80	0.01	0.88	5.46	1.92	0.333	48	0.31	0.56	813	1.25	3.34	53396
C 111	21.87	36.92	6.66	6.25	0.54	0.74	3.49	1.84	0.248	71	0	0.11	984	1.33	0.13	53397
C 112	13.29	28.53	7.51	5.58	0.17	0.86	5.12	1.89	0.303	43	0.28	0.54	797	3.00	3.34	53398
C 113	12.68	27.40	7.04	5.63	0.05	0.99	5.08	2.07	0.331	41	0.12	0.59	751	4.50	3.93	53399
C 114	13.87	26.48	4.98	3.44	0.02	0.60	3.17	1.01	0.233	32	0.39	0.56	812	0	3.80	53400
C 115	20.68	26.00	6.87	5.47	0.50	0.85	1.70	2.01	0.328	52	0.15	0.46	793	1.50	3.60	53401
C 116	23.23	28.21	6.27	5.38	0.39	0.87	2.65	1.94	0.348	43		0.58	790	3.08	4.14	53402
C 117	22.42	31.72	4.48	4.69	0.26	0.72	2.23	1.69	0.323	34	0.43	0.61	829	0	4.06	53403
C 117A	20.35	27.97	4.00	4.08	0.23	0.72	1.86	1.70	0.300	38	0.46	0.91	755	0	6.00	53404
C 118	25.37	33.36	6.52	4.86	0.22	0.70	2.51	2.04	0.346	46	0.29	0.20	864	1.33	2.26	53405
C 119	15.75	32.78	5.08	4.31	0.21	0.66	2.08	1.77	0.318	27	0.30	0.18	826	2.17	2.61	53406
C 120	20.72	34.55	4.68	5.00	0.30	0.72	1.83	2.12	0.402	51	0.18	0.18	881	0.75	2.08	53407
C 121	18.32	34.74	3.42	4.02	0.24	0.63	1.47	1.55	0.334	22	0.08	0.17	849	2.25	2.18	53408
C 122	19.85	36.98	3.37	3.44	0.15	0.42	1.52	1.39	0.310	19	0.06	0.35	901	1.08	1.51	53409
C 123	19.80	39.04	2.73	3.10	0.15	0.34	1.13	1.14	0.361	15	0.27	0.03	921	0.83	0.81	53410
C 124	19.06	35.84	2.91	3.76	0.19	0.56	1.52	1.36	0.318	14	0.25	0.12	847	3.92	2.52	53411
C 125	22.24	40.34	2.29	2.59	0.13	0.29	0.84	0.85	0.591	11	0.08	0.35	927	0.92	0.11	53412
C 126	31.17	39.07	3.79	2.75	0.18	0.24	0.92	1.09	0.368	8	0	0.03	938	0.33	0.12	53417
C 131A	20.71	23.51	5.75	3.15	0.35	0.82	1.99	0.74	0.222	6	0	0.01	706	45.16	0.21	53418
P 1	29.49	32.12	2.49	3.43	0.32	0.35	1.56	0.82	0.190	52	0.44	.	900	0	2.54	53419
P 6	26.76	30.40	4.24	4.73	0.43	0.58	1.21	0.89	0.207	56	1.03	.	867	0.08	2.12	53424
P 12	.	20.82	.	6.13	.	1.09	.	1.33	0.212	56	.	.	.	3.33	4.40	53430
P 28	26.75	29.28	4.57	4.85	0.47	0.62	1.20	0.89	0.225	56	0.67	.	895	5.75	3.35	53445
P 29	15.01	21.43	5.31	6.54	0.62	1.22	1.56	1.48	0.235	60	.	.	745	2.25	5.05	53446
P 31	16.42	25.46	6.10	6.78	0.72	1.14	1.54	2.41	0.357	48	1.42	.	800	3.08	5.42	53448
P 32	16.11	22.94	5.63	6.25	0.63	0.95	1.26	2.09	0.334	41	.	.	818	0	8.20	53449
P 42	17.30	28.84	4.92	5.39	0.54	0.90	1.13	1.95	0.247	32	1.69	.	783	0	5.12	53457
P 44	28.00	24.12	5.45	6.10	0.65	0.79	1.37	2.13	0.337	48	1.54	.	854	3.58	4.69	53459
P 47	28.66	28.98	4.80	5.16	0.55	0.78	1.20	1.69	0.313	30	1.11	.	860	0	3.21	53462
P 49	22.61	27.45	4.94	5.43	0.57	0.92	1.09	1.95	0.284	37	1.31	.	784	0.75	4.81	53464
P 55	18.91	24.34	4.86	5.99	0.63	1.18	2.61	2.27	0.345	76	0.78	.	797	0.58	5.17	53470
P 57	18.13	28.11	4.87	5.66	0.58	1.04	1.35	1.60	0.308	68	1.32	.	796	2.50	4.99	53494
P 63	19.40	25.84	6.13	6.15	0.69	1.06	1.40	2.34	0.359	78	1.34	.	846	0.50	5.67	53473
P 69	20.27	27.08	5.61	6.47	0.69	1.10	1.41	2.35	0.353	75	1.10	.	827	1.92	5.03	53479
P 73	25.91	33.15	5.45	4.81	1.36	1.54	3.76	1.71	0.262	83	0.34	.	923	1.67	1.76	53483
P 76	17.37	25.76	5.81	5.99	0.64	1.23	1.63	1.79	0.309	68	1.40	.	783	2.75	4.87	53486
P 84	25.63	38.61	5.87	3.85	0.71	0.49	1.95	1.12	0.200	42	0.16	.	978	0.08	0.37	53493
P 99	18.70	29.88	5.49	5.24	0.57	0.90	2.37	1.57	0.317	63	1.47	.	857	0.50	5.41	53506
P 103	23.70	36.62	3.54	2.84	0.32	0.43	0.77	0.82	0.212	56	0.84	.	917	4.00	3.85	53510

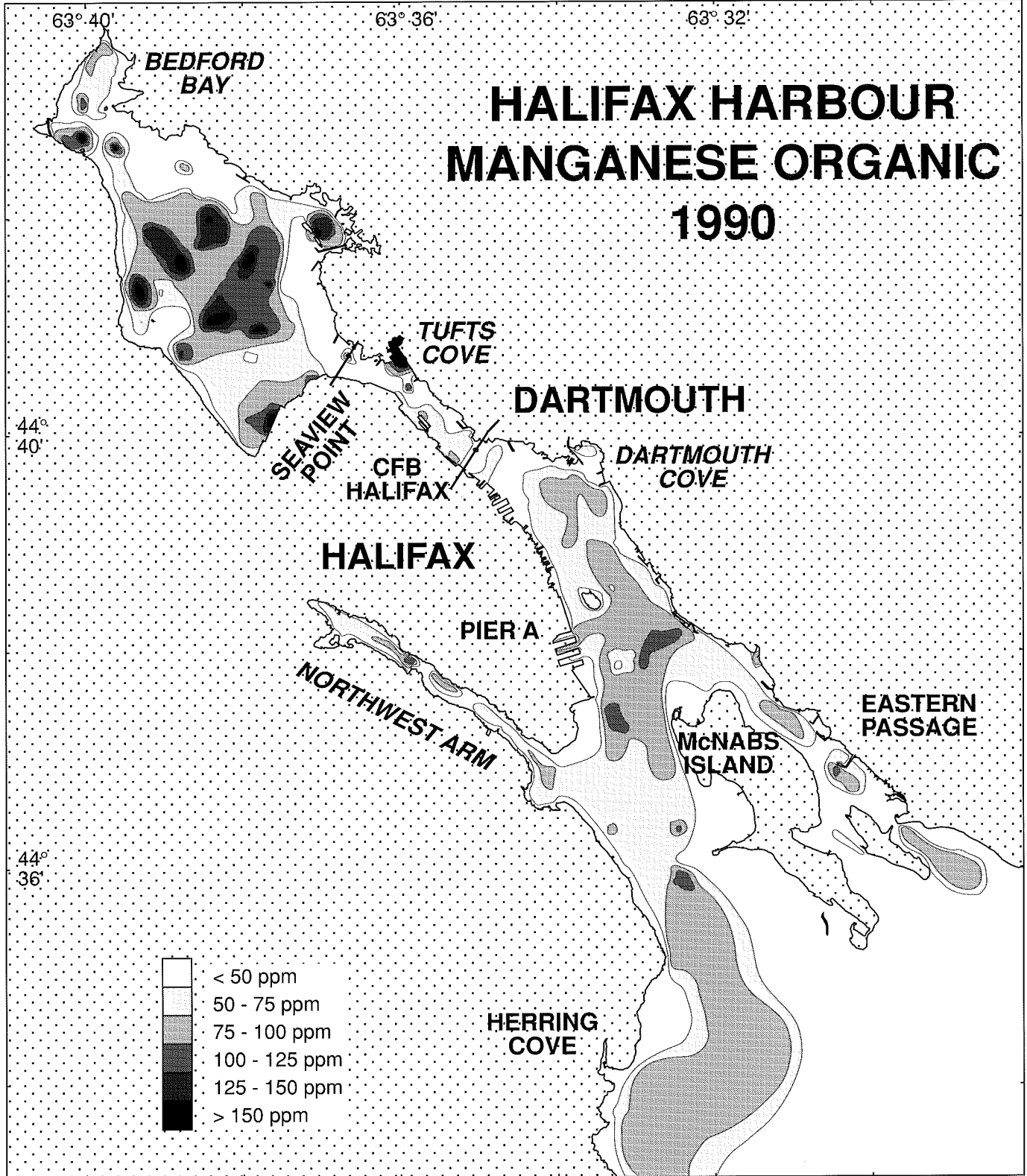
STN	Si _R	Si _T	Al _R	Al _T	Mg _R	Mg _T	K _R	K _T	Ti _T	Li _T	Cd _T	Hg _T	Residue	CaCO ₃	C _{Org}	ID
	%	%	%	%	%	%	%	%	%	μgg ⁻¹	μgg ⁻¹	μgg ⁻¹	mg	%	%	
P 104	21.23	31.61	5.06	5.40	0.52	0.85	1.20	1.49	0.385	55	1.32	.	834	1.42	4.95	53511
P 106	18.97	29.12	5.10	6.10	0.50	0.91	1.81	1.55	0.376	64	1.27	.	830	3.58	4.85	53513
P 107	23.38	35.35	5.12	5.82	0.51	0.71	1.19	1.37	0.399	68	0.82	.	903	0.08	2.53	53514
P 108	22.99	25.83	5.96	7.91	0.60	0.86	1.53	2.42	0.379	79	1.15	.	880	7.17	5.50	53515
P 111	20.09	25.73	5.01	6.27	0.55	1.03	3.17	2.38	0.353	74	0.97	.	853	0.83	4.52	53518
P 115	24.48	30.22	4.78	5.49	0.53	0.85	1.40	1.80	0.259	73	0.99	.	867	2.42	4.27	53522
P 116	22.02	26.90	4.61	5.98	0.57	1.02	2.09	1.98	0.259	70	0.85	.	798	2.33	3.88	53523
P 118	21.60	27.51	5.08	5.70	0.57	1.04	1.68	1.94	0.202	68	0.72	.	819	2.42	4.46	53525
P 123	22.36	28.67	6.37	5.65	0.57	0.95	2.70	1.98	0.194	69	0.88	.	815	2.67	4.14	53530
P 126	19.48	30.58	6.62	5.48	0.44	1.00	2.88	2.06	0.358	68	0.72	.	863	2.08	4.40	61202
P 129	22.73	28.68	4.87	4.55	0.61	0.94	1.18	1.77	0.341	57	0.54	.	829	2.33	4.14	61205
P 135	24.13	33.81	5.16	4.48	0.53	0.87	1.06	1.84	0.360	58	0.46	.	877	1.33	3.28	61211
P 137	20.97	31.02	4.91	4.52	0.58	0.97	1.21	1.93	0.356	59	0.33	.	823	5.58	3.98	61213
P 147	19.34	26.65	7.41	4.34	0.39	0.55	2.39	1.38	0.312	93	0.21	.	780	31.17	0.63	61223
P 152	19.39	30.67	5.46	5.16	0.61	0.96	1.27	2.16	0.345	67	1.16	.	843	0.67	5.49	61225
P 153	20.15	29.10	6.64	5.26	0.60	0.97	2.44	2.08	0.332	62	0.49	.	860	1.75	6.01	61226
P 154	22.07	28.89	8.13	5.32	0.66	1.00	2.54	2.14	0.369	74	1.83	.	850	1.58	6.00	61227
P 155	19.38	29.88	5.87	5.71	0.50	1.09	2.37	2.38	0.407	74	1.08	.	781	2.50	5.70	61228
P 156	19.64	29.83	5.86	5.77	0.61	1.01	1.98	2.52	0.414	54	1.11	.	834	2.75	5.67	61229
P 157	19.99	25.54	5.57	6.65	0.61	0.96	1.35	2.28	0.392	70	.	.	806	3.58	6.13	61230
P 158	20.31	25.22	5.60	5.94	0.57	1.03	1.44	2.09	0.147	75	1.41	.	780	3.17	5.85	53532
P 159	20.26	26.57	5.84	6.50	0.57	1.06	1.53	2.37	0.317	76	1.75	.	815	1.92	5.46	53533
P 160	23.92	26.02	7.20	7.32	0.61	0.83	2.42	2.27	0.414	82	1.39	.	855	2.83	5.47	61231
P 170	24.81	28.91	9.60	6.58	0.78	0.94	2.63	2.29	0.405	56	0.41	.	844	3.25	4.08	61239
P 172	22.83	40.65	5.13	4.14	0.22	0.23	2.48	1.65	0.318	33	0.03	.	968	0.33	0.43	61241
P 173	19.84	28.33	7.11	5.77	0.47	0.85	2.48	2.30	0.366	43	0.46	.	896	4.75	3.46	61242
P 177	16.38	28.82	6.37	5.77	0.57	0.87	2.36	2.34	0.389	46	0.85	.	849	4.83	3.41	61246
P 190	14.80	27.33	7.19	5.97	0.39	0.97	2.86	2.08	0.393	61	1.25	.	840	4.33	4.83	61255
P 201	18.71	31.46	6.78	5.61	0.42	0.63	2.73	1.90	0.401	50	0.74	.	920	4.75	2.34	61261
P 209	23.10	36.58	4.97	3.57	0.33	0.32	1.77	1.27	0.297	26	0.49	.	952	0.75	1.16	61269
P 217	36.67	32.61	6.76	5.00	0.51	0.72	2.03	1.80	0.385	44	1.25	.	903	1.42	2.85	61277
P 218	22.69	31.08	4.91	5.00	0.42	0.70	2.11	1.89	0.386	38	1.06	.	853	2.83	2.84	61278
P 222	26.37	36.46	3.74	4.05	0.21	0.40	1.71	1.59	0.297	33	0.82	.	913	0.67	1.21	61282
P 228	32.29	39.76	5.30	2.84	0.34	0.12	1.90	1.43	0.269	19	0.41	.	960	1.33	0.15	61288

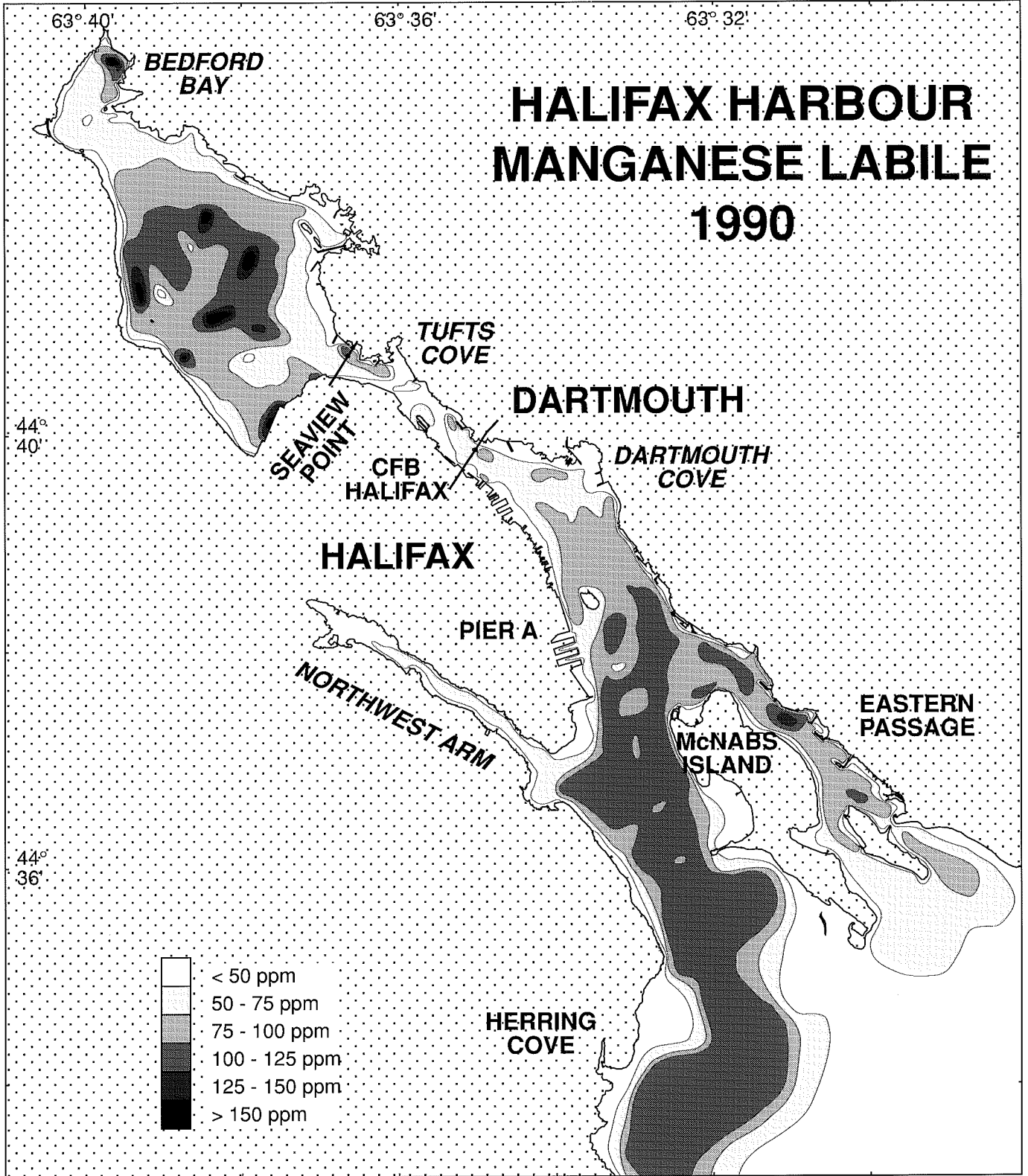
STN	Gravel	Sand	Silt	Clay	Mean-grain-size		Kurtosis	Skewness	p _c p _w	Water	ID
	%	%	%	%	μm	phi					
B 1	0	17.41	70.24	12.35	12.96	6.27 ±1.56	0.80	3.14	2.89	54.80	53534
B 2	0	4.13	76.13	19.74	8.85	6.82 ±1.49	0.54	2.93	2.08	62.30	53535
B 3	0	6.25	81.33	12.42	11.13	6.49 ±1.35	0.91	3.74	-1.15	62.30	53536
B 4	0	10.71	65.44	23.94	7.60	7.04 ±1.57	0.43	2.50	-0.15	62.30	53537
B 5	0	12.21	77.04	10.75	12.87	6.28 ±1.39	0.84	3.54	1.45	62.30	53538
B 6	0	7.94	78.67	13.39	11.36	6.46 ±1.42	0.73	3.36	2.76	69.80	53539
B 7	0	81.37	13.64	4.99	8.20	6.93 ±1.63	0.26	2.36	1.52	47.30	53540
B 8	1.98	48.51	34.79	14.72	7.04	7.15 ±1.60	0.26	2.37	2.37	49.60	53541
B 9	13.66	33.93	41.95	10.46	10.53	6.57 ±1.62	0.45	2.54	2.47	67.60	53542
B 10	0	17.21	66.03	16.76	10.38	6.59 ±1.59	0.56	2.69	2.47	77.10	53543
B 11	0	8.17	71.55	20.28	8.55	6.87 ±1.48	0.38	2.79	1.88	74.40	53544
B 12	0	14.16	71.82	13.93	11.52	6.44 ±1.53	0.66	2.98	2.45	79.10	53545
B 13	0	8.06	75.04	16.90	9.89	6.66 ±1.46	0.56	2.96	2.20	73.00	53546
B 14	0	13.44	65.23	21.33	7.87	6.99 ±1.52	0.37	2.69	2.23	88.20	53547
B 15	0	12.49	73.41	14.19	12.09	6.37 ±1.49	0.70	2.95	2.30	78.30	53548
B 16	0	7.31	66.22	26.47	7.29	7.10 ±1.60	0.25	2.41	0.29	79.80	53549
B 17	0	13.85	69.51	16.64	9.69	6.69 ±1.49	0.48	2.82	1.72	75.80	53550
B 18	0	8.66	66.17	25.17	7.87	6.99 ±1.62	0.29	2.38	2.55	75.40	53551
B 19	0	60.52	34.18	5.30	11.92	6.39 ±1.39	0.80	3.49	3.19	82.20	53552
B 20	13.83	45.62	35.31	5.25	14.38	6.12 ±1.55	0.79	3.24	3.84	75.40	53553
B 21	54.18	35.96	7.33	2.54	8.91	6.81 ±1.68	0.16	2.39	5.36	75.50	53554
B 22	0	17.83	59.10	23.07	7.98	6.97 ±1.71	0.31	2.31	1.86	75.50	53555
B 23	0	21.74	59.13	19.13	8.09	6.95 ±1.53	0.29	2.71	1.20	75.60	53556
B 24	0	16.11	61.68	22.21	7.98	6.97 ±1.64	0.36	2.48	1.17	72.60	53557
B 25	1.84	13.78	67.11	17.27	8.49	6.88 ±1.40	0.52	3.13	2.91	72.20	53558
B 26	45.25	36.46	13.39	4.91	8.55	6.87 ±1.72	0.25	2.36	2.62	50.00	53559
B 27	0	10.76	66.01	23.23	8.26	6.92 ±1.64	0.40	2.30	2.28	76.60	53560
B 28	0	18.67	62.54	18.79	8.97	6.80 ±1.63	0.49	2.60	1.66	74.80	53561
B 29	0.59	65.68	29.76	3.97	19.37	5.69 ±1.62	0.98	3.37	1.50	47.70	53562
B 30	0	32.64	48.70	18.59	7.60	7.04 ±1.61	0.24	2.53	2.10	63.30	53563
B 31	0	15.94	64.23	19.74	7.98	6.97 ±1.49	0.36	2.79	0.86	78.80	53564
B 32	18.25	53.72	23.47	4.52	12.96	6.27 ±1.64	0.62	2.93	1.76	48.10	53565
B 33	0	15.37	73.50	11.13	12.69	6.30 ±1.46	0.61	3.24	3.63	70.10	53566
B 34	7.15	32.53	48.06	12.25	10.10	6.63 ±1.61	0.42	2.72	2.03	54.50	53567
B 35	0	58.56	37.20	4.24	19.24	5.70 ±1.52	0.98	3.57	1.66	48.30	53568
B 36	9.26	14.19	61.89	14.58	9.62	6.70 ±1.52	0.47	2.95	-0.29	65.50	53569
B 37	0	11.00	72.23	16.77	10.17	6.62 ±1.52	0.50	2.85	2.28	78.70	53570
B 38	0	13.81	70.94	15.16	10.24	6.61 ±1.50	0.63	3.02	1.44	75.10	53571
B 39	17.18	34.51	41.06	7.24	12.96	6.27 ±1.54	0.66	2.99	2.20	73.50	53572
B 40	0	11.71	75.06	13.31	10.97	6.51 ±1.40	0.65	3.26	2.30	71.90	53573
B 41	51.41	44.98	2.50	1.11	7.44	7.07 ±1.67	0.06	2.35	2.08	22.50	53574
B 42	0	12.90	73.75	13.35	10.97	6.51 ±1.44	0.68	3.23	1.86	69.60	53575
B 43	57.66	23.56	15.26	3.53	12.34	6.34 ±1.69	0.48	2.57	2.70	64.90	53576
B 44	28.49	41.96	24.09	5.46	11.28	6.47 ±1.60	0.45	2.68	2.18	44.00	53577
B 45	14.63	42.03	33.94	9.41	9.49	6.72 ±1.58	0.40	2.61	2.84	53.90	53578
B 46	0	12.75	75.56	11.69	11.84	6.40 ±1.42	0.67	3.32	2.37	67.20	53579
B 47	1.28	28.97	51.89	17.86	7.55	7.05 ±1.56	0.40	2.64	2.18	67.20	53580
B 48	8.78	30.77	42.72	17.66	8.20	6.93 ±1.74	0.19	2.24	1.00	71.20	53581
B 49	0	7.34	75.02	17.64	10.17	6.62 ±1.56	0.75	2.97	2.37	67.20	53582
B 50	2.65	57.62	32.65	7.08	12.87	6.28 ±1.68	0.68	2.73	2.57	67.20	53583
B 51	32.53	37.74	19.13	10.60	6.90	7.18 ±1.83	0.05	2.10	2.70	39.60	53584
B 52	0	24.07	57.20	18.73	8.97	6.80 ±1.67	0.37	2.49	1.42	57.20	53585
B 53	15.53	24.38	45.64	14.44	9.04	6.79 ±1.69	0.47	2.52	2.13	68.00	53586
B 54	1.28	20.26	58.69	19.85	8.37	6.90 ±1.61	0.33	2.51	-0.61	64.80	53587
B 55	2.09	19.14	62.41	16.28	9.42	6.73 ±1.57	0.55	2.79	1.20	65.10	53588
B 56	7.93	16.11	63.68	12.28	10.31	6.60 ±1.42	0.69	3.33	0.96	65.40	53589
B 57	0	12.80	60.80	26.40	7.34	7.09 ±1.69	0.29	2.27	-0.85	70.70	53590
B 58	2.05	12.77	57.47	27.62	6.66	7.23 ±1.66	0.23	2.23	-1.27	63.50	53591
B 59	0	21.56	65.50	12.94	10.38	6.59 ±1.44	0.66	3.20	-0.86	63.70	53592
B 60	38.72	12.22	35.89	13.17	8.09	6.95 ±1.64	0.35	2.42	1.86	59.70	53593

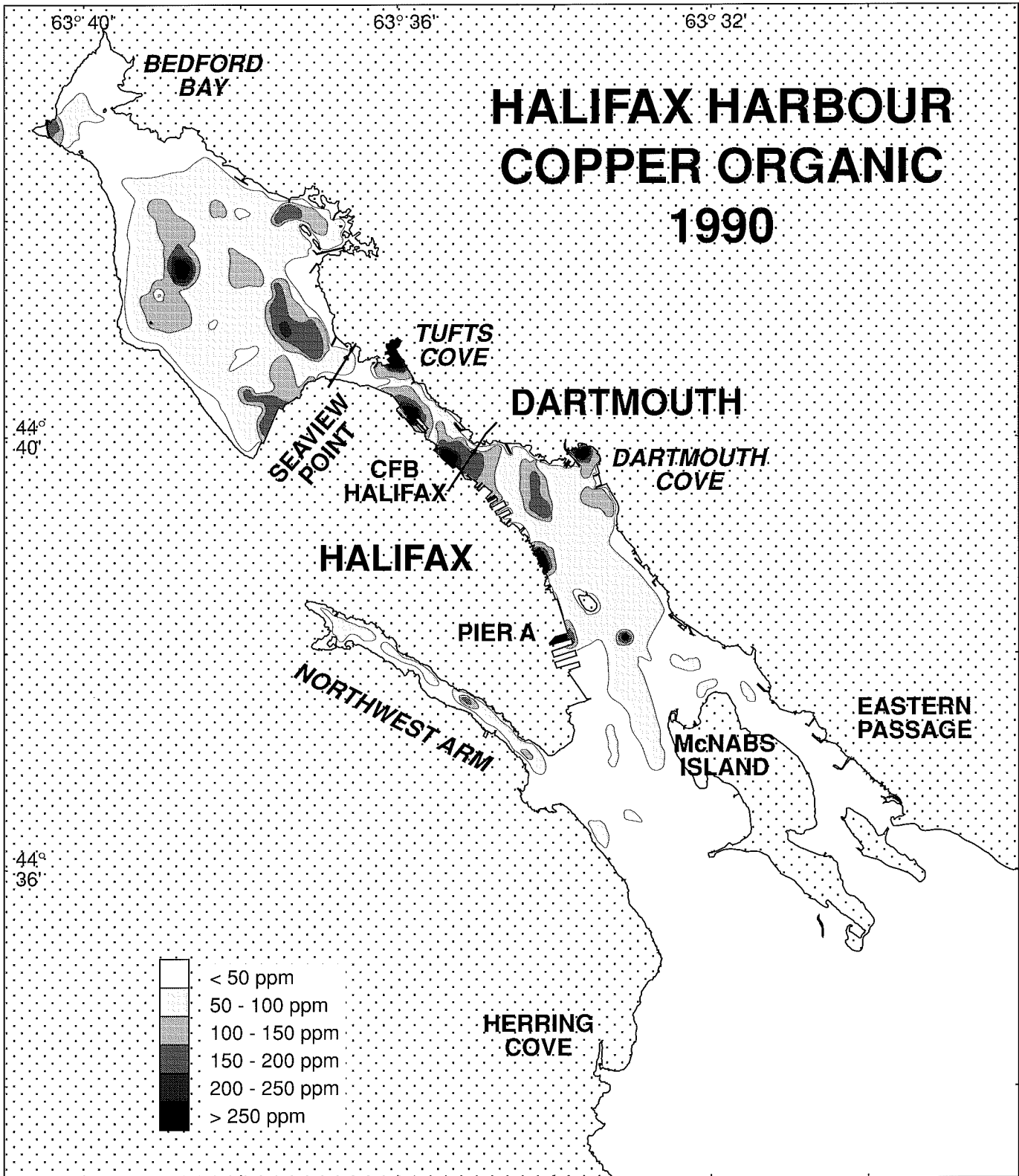
STN	Gravel	Sand	Silt	Clay	Mean-grain-size		Kurtosis	Skewness	$p_{e_{pw}}$	Water	ID
	%	%	%	%	μm	phi				-lg M	
B 61	0	10.59	68.92	20.49	8.67	6.85 ± 1.55	0.42	2.69	1.30	68.90	53594
B 62	0	15.11	69.40	15.57	9.16	6.77 ± 1.41	0.54	3.16	1.30	68.80	53595
B 63	10.94	17.36	56.80	14.90	8.79	6.83 ± 1.50	0.53	2.92	1.32	62.60	53596
B 64	0	12.76	69.39	17.85	9.10	6.78 ± 1.51	0.51	2.89	0.59	64.90	53597
B 65	0.24	10.28	75.21	14.27	10.10	6.63 ± 1.39	0.72	3.40	-0.66	54.50	53598
B 66	4.80	17.36	63.17	14.67	9.75	6.68 ± 1.49	0.49	2.88	-0.08	64.00	53599
B 67	0	20.76	66.52	12.72	10.67	6.55 ± 1.47	0.64	3.20	0	63.50	53600
B 68	0	14.65	70.91	14.44	9.89	6.66 ± 1.43	0.48	3.16	-0.08	63.40	53601
B 69	0	15.52	70.41	14.07	9.82	6.67 ± 1.42	0.64	3.30	0	68.50	53602
B 70	1.02	20.54	63.44	15.08	9.49	6.72 ± 1.48	0.43	2.92	-0.07	60.90	53603
B 71	1.63	13.31	68.62	16.44	10.10	6.63 ± 1.56	0.45	2.80	-3.06	65.30	53604
B 72	3.92	20.15	63.12	12.81	10.67	6.55 ± 1.47	0.48	2.97	-2.48	57.50	53605
B 73	9.24	25.78	50.39	14.59	8.85	6.82 ± 1.57	0.45	2.69	2.59	65.40	53606
B 74	0	13.59	71.73	14.68	9.75	6.68 ± 1.41	0.61	3.21	1.88	72.40	53607
B 75	1.23	42.20	47.16	9.40	11.05	6.50 ± 1.51	0.49	2.92	-2.60	54.60	53608
B 76	1.58	69.48	20.85	8.09	8.73	6.84 ± 1.76	0.20	2.23	0.98	58.20	53609
B 77	0	13.31	71.99	14.70	10.17	6.62 ± 1.46	0.57	3.14	1.20	70.50	53610
B 78	0	11.17	75.57	13.26	10.90	6.52 ± 1.42	0.66	3.34	1.08	63.50	53611
B 79	0.31	68.30	25.58	5.82	13.23	6.24 ± 1.71	0.57	2.65	0.68	39.80	53612
B 80	0	29.36	63.01	7.63	16.06	5.96 ± 1.48	0.84	3.40	1.10	65.00	53613
B 81	0	32.00	58.45	9.55	14.38	6.12 ± 1.57	0.90	3.27	0.95	56.10	53614
B 82	0	67.24	29.95	2.81	22.56	5.47 ± 1.41	1.54	5.20	1.05	61.60	53615
B 83	0	14.27	70.46	15.27	10.53	6.57 ± 1.51	0.55	2.99	1.13	67.10	53616
B 84	0	13.12	71.47	15.41	10.31	6.60 ± 1.48	0.56	3.02	1.22	71.60	53617
B 85	0	22.19	64.32	13.49	10.82	6.53 ± 1.53	0.67	3.03	1.27	74.50	53618
B 86	0	11.03	61.80	27.17	7.70	7.02 ± 1.73	0.21	2.22	1.13	66.90	53619
B 87	0	18.46	67.20	14.34	11.84	6.40 ± 1.60	0.71	2.85	1.08	64.10	53620
B 88	1.17	44.99	43.54	10.34	11.60	6.43 ± 1.65	0.53	2.62	0.95	56.10	53621
B 89	0	23.01	67.97	8.94	14.58	6.10 ± 1.46	0.88	3.43	0.93	54.80	53622
B 90	5.18	19.34	65.16	10.31	12.43	6.33 ± 1.46	0.74	3.24	0.91	53.80	53623
B 91	14.42	31.02	43.89	10.67	10.60	6.56 ± 1.62	0.62	2.72	1.13	66.50	53624
B 92	0	35.79	51.46	12.75	9.23	6.76 ± 1.46	0.52	2.98	1.22	71.50	53625
B 93	0	17.40	70.57	12.11	11.44	6.45 ± 1.44	0.78	3.38	1.22	71.70	53626
B 94	0	30.57	56.03	13.47	8.91	6.81 ± 1.43	0.57	3.16	1.28	75.60	53627
B 95	0	11.40	77.34	11.26	12.60	6.31 ± 1.43	0.91	3.66	1.01	59.90	53628
B 96	0	26.14	63.12	10.74	11.60	6.43 ± 1.45	0.88	3.50	0.93	55.00	53629
B 97	0	26.22	61.76	12.02	11.36	6.46 ± 1.49	0.65	3.03	1.00	59.10	53630
B 98	0	86.73	10.54	2.73	13.42	6.22 ± 1.80	0.55	2.44	0.47	28.20	53631
B 99	0	62.67	34.10	3.23	23.36	5.42 ± 1.48	1.38	4.46	1.05	61.60	53632
B 100	0	25.23	62.80	11.97	12.78	6.29 ± 1.57	0.65	2.90	1.06	62.80	53633
B 101	0	70.92	25.95	3.13	22.25	5.49 ± 1.56	1.35	4.12	0.85	49.80	53634
B 102	0	76.99	18.73	4.28	16.40	5.93 ± 1.83	0.99	2.88	1.13	36.80	53635
C 1	0	7.08	77.61	15.31	10.97	6.51 ± 1.48	0.67	3.06	1.34	64.10	53301
C 2	0	22.94	58.42	18.64	8.97	6.80 ± 1.73	0.37	2.57	0.83	77.60	53302
C 3	0	35.96	43.85	20.26	7.19	7.12 ± 1.69	0.16	2.27	3.18	77.00	53303
C 4	0	30.18	54.55	15.27	9.04	6.79 ± 1.57	0.44	2.75	2.69	78.70	53304
C 5	2.91	65.19	23.17	8.73	9.49	6.72 ± 1.79	0.19	2.18	2.05	62.90	53305
C 6	0	33.35	49.60	17.05	8.03	6.96 ± 1.58	0.32	2.59	2.25	75.40	53306
C 7	0	65.28	28.14	6.58	10.90	6.52 ± 1.60	0.67	2.79	-1.94	76.80	53307
C 8	0	66.51	26.37	7.12	9.96	6.65 ± 1.65	0.69	2.72	3.06	70.80	53308
C 9	0	39.28	48.63	12.09	9.49	6.72 ± 1.49	0.54	2.86	2.28	71.30	53309
C 10	0	16.40	68.25	15.35	9.42	6.73 ± 1.41	0.55	3.09	2.43	79.60	53310
C 11	0	72.89	19.02	8.09	7.44	7.07 ± 1.69	0.14	2.39	3.06	54.30	53311
C 12	0	61.09	30.30	8.61	9.23	6.76 ± 1.58	0.38	2.66	-0.25	50.90	53312
C 13	0	31.72	45.80	22.41	7.04	7.15 ± 1.66	0.07	2.30	2.35	81.80	53313
C 14	0	53.31	32.76	13.98	7.55	7.05 ± 1.72	0.23	2.25	1.45	69.90	53314
C 15	0	32.55	46.29	21.16	7.49	7.06 ± 1.68	0.07	2.30	2.05	82.20	53315
C 16	0	24.31	59.89	15.80	9.16	6.77 ± 1.48	0.47	2.86	-2.27	77.40	53316
C 17	0	22.19	62.19	15.62	9.49	6.72 ± 1.52	0.58	2.85	1.03	75.20	53317
C 18	0	29.70	52.19	18.11	8.20	6.93 ± 1.63	0.35	2.41	-1.20	74.10	53318

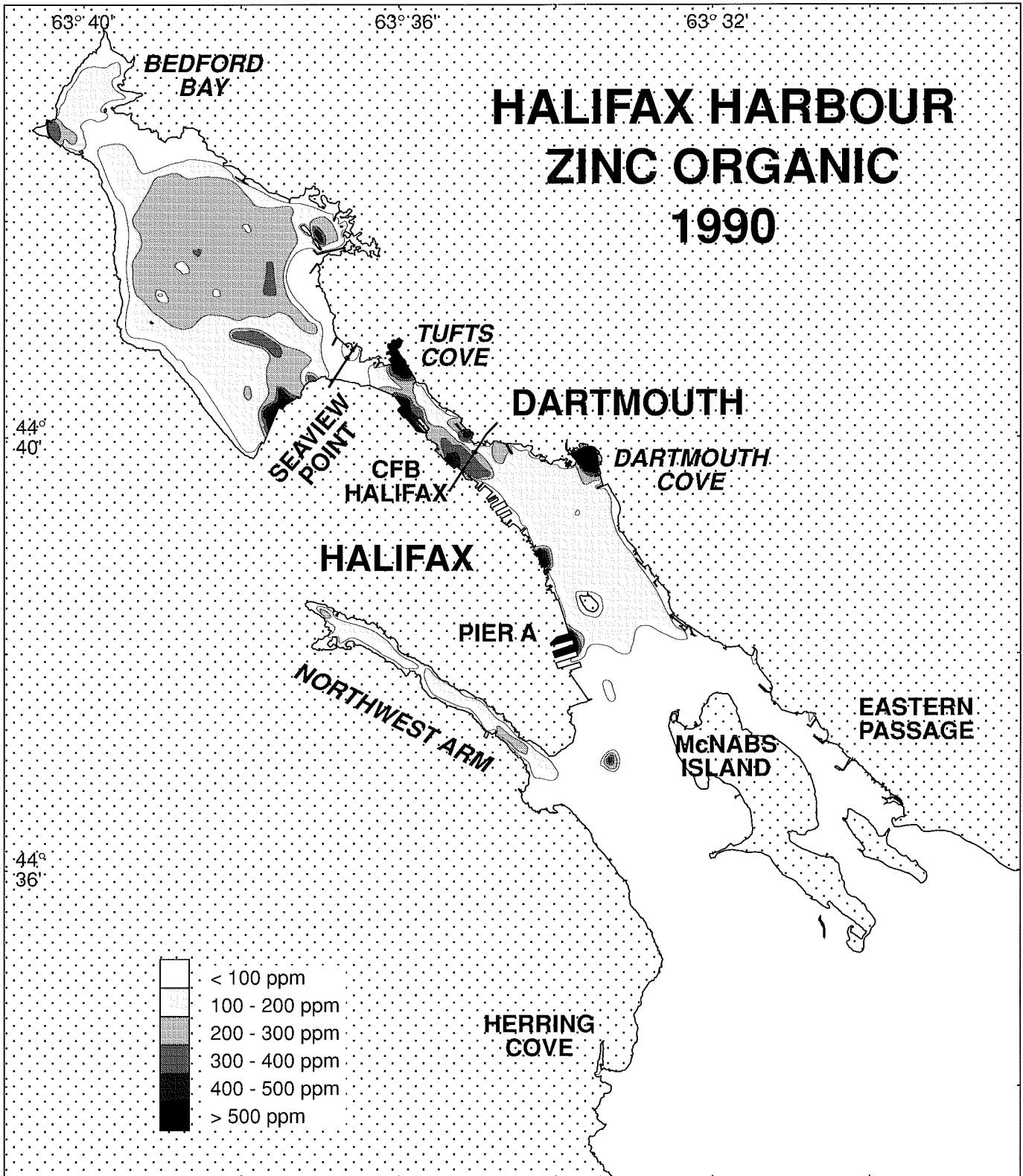
STN	Gravel	Sand	Silt	Clay	Mean-grain-size		Kurtosis	Skewness	$p_{e_{pw}}$	Water	ID
	%	%	%	%	μm	phi				-lg M	
C 19	0	43.37	39.19	17.44	6.90	7.18 ±1.64	0.20	2.38	1.61	81.90	53319
C 20	0	31.76	51.42	16.82	8.61	6.86 ±1.60	0.36	2.51	0.68	82.30	53320
C 21	0	18.95	62.94	18.19	8.61	6.86 ±1.47	0.36	2.76	0.98	82.90	53321
C 22	0	49.77	36.34	13.89	7.60	7.04 ±1.58	0.27	2.43	2.60	84.90	53322
C 23	0	52.29	36.44	11.27	8.85	6.82 ±1.60	0.44	2.55	3.26	67.70	53323
C 24	0	20.75	56.00	23.25	7.24	7.11 ±1.52	0.11	2.60	-0.66	83.20	53324
C 25	0	30.11	52.91	16.98	8.67	6.85 ±1.55	0.34	2.50	1.25	83.60	53325
C 26	0	17.03	62.60	20.37	7.76	7.01 ±1.50	0.33	2.71	0.25	83.10	53326
C 27	0	56.85	30.95	12.20	8.14	6.94 ±1.66	0.21	2.29	1.27	73.00	53327
C 29	0	49.49	39.14	11.37	8.61	6.86 ±1.48	0.38	2.79	1.76	79.30	53328
C 30	0	20.36	64.12	15.60	10.31	6.60 ±1.58	0.52	2.70	0.83	76.90	53329
C 31	0	54.50	38.23	7.27	13.70	6.19 ±1.65	0.78	2.96	2.40	64.00	53330
C 32	0	47.59	40.82	11.59	10.38	6.59 ±1.67	0.45	2.42	0.08	64.40	53331
C 33	0	82.52	14.27	3.21	12.17	6.36 ±1.65	0.61	2.67	0.59	67.30	53332
C 34	0	18.85	60.66	20.57	8.55	6.87 ±1.62	0.36	2.41	-1.93	72.60	53333
C 35	0	55.52	34.56	9.92	9.16	6.77 ±1.61	0.54	2.65	-3.31	85.90	53334
C 36	48.31	27.34	19.80	4.55	11.28	6.47 ±1.60	0.44	2.63	.	.	53335
C 37	0	71.03	19.06	9.91	7.65	7.03 ±1.87	0.10	2.00	0.17	55.60	53336
C 38	56.38	14.32	20.53	8.77	7.70	7.02 ±1.71	0.21	2.18	2.11	39.50	53337
C 39	9.73	34.05	42.62	13.66	9.04	6.79 ±1.65	0.31	2.51	.	.	53338
C 40	16.80	50.28	25.19	7.73	9.36	6.74 ±1.68	0.45	2.47	-0.27	55.40	53339
C 42	0	79.22	15.34	5.44	8.73	6.84 ±1.74	0.35	2.37	-1.71	53.00	53340
C 43	9.58	68.09	15.26	7.05	7.98	6.97 ±1.80	0.16	2.02	-0.32	35.60	53341
C 44	22.21	55.80	15.28	6.71	6.94	7.17 ±1.56	0.21	2.34	-0.22	41.90	53342
C 45	0	49.33	36.48	14.19	7.49	7.06 ±1.63	0.23	2.51	4.77	66.80	53343
C 46	5.49	58.48	25.25	10.78	8.37	6.90 ±1.85	0.32	2.10	2.50	74.40	53344
C 47	16.27	35.00	36.06	12.67	8.43	6.89 ±1.66	0.29	2.38	.	.	53345
C 48	0	38.21	46.85	14.94	9.42	6.73 ±1.71	0.43	2.41	.	.	53346
C 49	0	51.93	35.98	12.09	8.26	6.92 ±1.62	0.31	2.48	-4.38	61.60	53347
C 50	0	25.05	62.89	12.06	10.53	6.57 ±1.44	0.54	3.12	2.21	78.80	53348
C 51	0	27.11	58.99	13.90	9.75	6.68 ±1.54	0.69	3.01	-2.43	81.40	53349
C 52	30.81	44.61	20.65	3.93	11.52	6.44 ±1.50	0.68	3.07	.	.	53350
C 53	0	37.34	49.63	13.03	9.89	6.66 ±1.59	0.51	2.60	3.60	71.10	53351
C 54	0	17.91	61.36	20.73	7.92	6.98 ±1.55	0.32	2.69	1.17	67.70	53352
C 55	0	21.41	62.73	15.86	9.49	6.72 ±1.50	0.38	2.80	-0.19	74.50	53353
C 56	0	23.49	52.89	23.62	7.09	7.14 ±1.74	0.31	2.18	-1.56	66.10	53354
C 57	54.01	33.41	10.37	2.21	10.24	6.61 ±1.49	0.39	2.88	0.27	75.70	53355
C 58	0	46.58	44.07	9.35	9.96	6.65 ±1.46	0.51	3.10	.	.	53356
C 59	0	7.56	74.14	18.30	9.29	6.75 ±1.45	0.41	2.92	-2.33	78.80	53357
C 60	0	29.61	59.71	10.68	12.43	6.33 ±1.56	0.72	3.08	-2.25	71.40	53358
C 61	0	29.72	50.39	19.89	7.39	7.08 ±1.60	0.32	2.39	4.48	81.50	53359
C 62	0	17.89	65.37	16.74	9.16	6.77 ±1.51	0.45	2.86	3.80	75.40	53360
C 63	0	16.93	63.15	19.83	9.04	6.79 ±1.62	0.32	2.50	3.04	71.30	53361
C 64	0	67.24	24.46	8.30	8.97	6.80 ±1.70	0.40	2.32	.	.	53362
C 65	0	48.72	38.05	13.23	8.91	6.81 ±1.68	0.25	2.38	0.95	73.40	53363
C 66	0	36.77	51.12	12.11	10.03	6.64 ±1.53	0.46	2.84	1.94	73.90	53364
C 67	0	38.32	47.02	14.60	8.91	6.81 ±1.62	0.35	2.54	.	.	53365
C 68	1.83	80.04	12.79	5.36	8.14	6.94 ±1.77	0.30	2.17	.	.	53366
C 69	12.55	76.79	8.32	2.35	12.01	6.38 ±1.80	0.47	2.34	2.40	27.60	53367
C 70	0	39.30	43.60	17.10	7.98	6.97 ±1.73	0.30	2.34	1.03	73.60	53368
C 71	0	71.00	22.59	6.41	11.92	6.39 ±1.77	0.39	2.30	0.56	64.50	53369
C 72	0	61.70	29.58	8.68	9.23	6.76 ±1.61	0.51	2.64	-0.07	83.70	53370
C 73	0	11.95	71.84	16.21	9.36	6.74 ±1.44	0.46	3.10	-0.85	81.30	53371
C 74	0	32.78	47.12	20.10	7.04	7.15 ±1.57	0.23	2.42	0.86	84.20	53372
C 75	0	54.34	36.69	9.02	8.61	6.86 ±1.38	0.34	3.11	0.51	80.10	53373
C 76	0	29.82	58.38	11.80	10.60	6.56 ±1.52	0.51	2.87	1.59	80.50	53374
C 77	0	13.41	71.25	15.25	10.24	6.61 ±1.46	0.52	2.99	-0.35	82.20	53375
C 78	0	36.19	52.56	11.31	10.38	6.59 ±1.55	0.68	3.03	0.73	78.50	53376
C 79	0	7.85	77.04	15.11	11.36	6.46 ±1.49	0.69	3.02	0.29	73.80	53377
C 80	.	.	.	.	.	.	.	.	2.94	58.30	53413

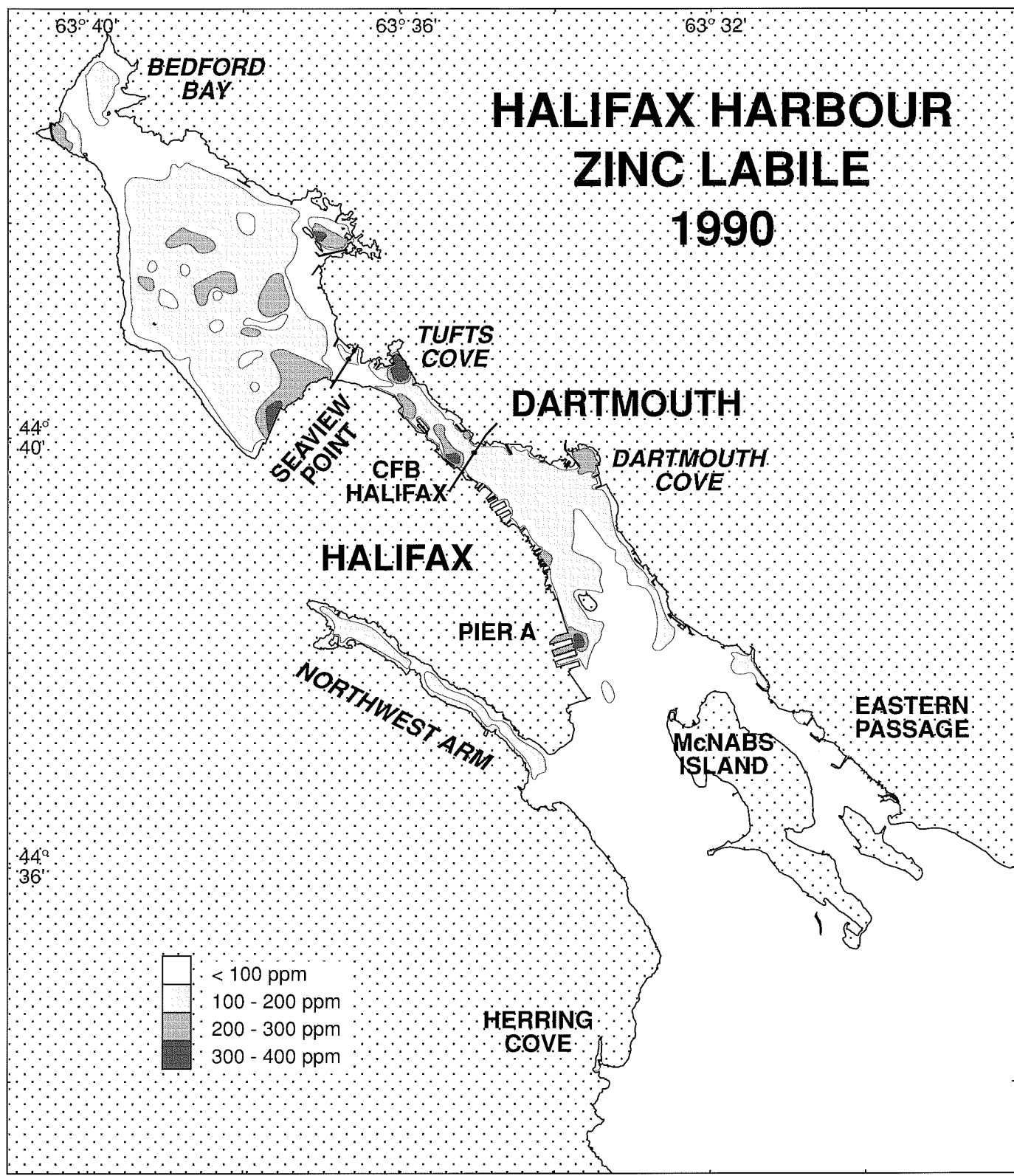
STN	Gravel	Sand	Silt	Clay	Mean-grain-size		Kurtosis	Skewness	$p_{c_{pw}}$ -lg M	Water %	ID
	%	%	%	%	μm	phi					
C 81	.	.	.	.	.	.	.	.	-1.34	52.20	53414
C 82	.	.	.	.	.	.	.	.	3.04	67.10	53415
C 83	.	.	.	.	.	.	.	.	4.65	24.10	53416
C 84	0	71.55	26.86	1.59	33.03	4.92 \pm 1.27	2.16	7.71	4.51	39.30	53378
C 85	0	56.78	36.48	6.74	14.88	6.07 \pm 1.62	0.91	3.00	3.16	65.90	53379
C 86	0	74.11	23.92	1.94	30.19	5.05 \pm 1.41	1.93	6.34	4.39	36.50	53380
C 87	0	95.40	4.29	0.32	43.28	4.53 \pm 1.26	2.77	10.77	3.33	25.30	53381
C 89	0.46	99.54	.	.	.	.	.	.	2.84	24.20	53382
C 90	0	98.11	1.75	0.14	39.83	4.65 \pm 1.33	2.42	8.70	.	.	53383
C 91	66.89	33.11	.	.	.	.	.	.	3.70	21.20	53384
C 92	0	74.94	24.06	1.00	35.16	4.83 \pm 1.12	2.66	11.16	3.41	32.70	53385
C 95	1.91	98.09	.	.	.	.	.	.	.	.	53386
C 96	2.70	97.30	0	0	14.58	6.10 \pm 1.95	0.78	2.20	-0.08	39.30	53387
C 96A	0	66.77	27.86	5.34	15.95	5.97 \pm 1.72	0.89	2.90	.	.	53388
C 97	60.30	39.70	.	.	.	.	.	.	4.99	23.50	53389
C 98	0	67.91	30.33	1.76	29.36	5.09 \pm 1.25	2.19	8.06	4.43	50.30	53390
C 100	54.29	45.71	.	.	.	.	.	.	4.90	21.60	53391
C 101	0	62.44	35.78	1.74	29.16	5.10 \pm 1.15	2.36	9.30	2.76	42.10	53392
C 106	0	82.04	16.47	1.52	33.26	4.91 \pm 1.45	1.92	6.17	.	.	53393
C 108	0	27.88	57.99	14.13	9.89	6.66 \pm 1.52	0.50	2.82	-0.68	67.80	53394
C 109	0	74.06	19.56	6.38	9.42	6.73 \pm 1.67	0.38	2.38	.	.	53395
C 110	0	20.94	63.18	15.88	9.69	6.69 \pm 1.50	0.47	2.80	-0.66	69.60	53396
C 111	81.68	18.32	.	.	.	.	.	.	.	.	53397
C 112	0	56.65	34.64	8.66	9.69	6.69 \pm 1.56	0.49	2.80	-1.13	70.40	53398
C 113	0	13.23	66.35	20.33	8.43	6.89 \pm 1.50	0.35	2.65	-1.27	78.20	53399
C 114	0	35.79	50.16	14.05	10.38	6.59 \pm 1.67	0.36	2.51	-0.19	56.00	53400
C 115	0	11.05	70.81	18.14	10.10	6.63 \pm 1.56	0.38	2.70	0.79	79.00	53401
C 116	0	18.31	66.69	15.00	10.10	6.63 \pm 1.50	0.47	2.83	.	.	53402
C 117	0	29.21	56.46	14.26	10.17	6.62 \pm 1.65	0.57	2.71	-1.98	78.90	53403
C 117A	0	41.27	45.26	13.47	9.49	6.72 \pm 1.63	0.43	2.51	.	.	53404
C 118	0	36.81	52.54	10.65	12.34	6.34 \pm 1.61	0.63	2.81	.	.	53405
C 119	0	33.72	53.31	12.97	11.52	6.44 \pm 1.65	0.53	2.57	0.32	73.10	53406
C 120	0	26.63	64.44	8.93	15.52	6.01 \pm 1.50	0.85	3.30	3.53	51.10	53407
C 121	0	31.27	54.03	14.70	9.62	6.70 \pm 1.61	0.66	2.73	-0.71	71.50	53408
C 122	0	67.70	28.88	3.42	18.33	5.77 \pm 1.53	1.06	3.63	2.57	57.90	53409
C 123	0	66.65	30.16	3.19	25.21	5.31 \pm 1.52	1.53	4.74	2.03	53.20	53410
C 124	0	61.45	29.61	8.94	9.89	6.66 \pm 1.78	0.57	2.43	0.37	62.50	53411
C 125	0.33	99.67	0	0	43.28	4.53 \pm 1.33	2.77	10.10	2.38	23.40	53412
C 126	.	.	.	.	.	.	.	.	4.58	23.00	53417
C 131A	.	.	.	.	.	.	.	.	6.69	34.20	53418
P 1	.	.	.	.	.	.	.	.	.	.	53419
P 6	.	.	.	.	.	.	.	.	.	.	53424
P 12	.	.	.	.	.	.	.	.	.	.	53430
P 28	.	.	.	.	.	.	.	.	.	.	53445
P 29	.	.	.	.	.	.	.	.	.	.	53446
P 31	.	.	.	.	.	.	.	.	.	.	53448
P 32	.	.	.	.	.	.	.	.	.	.	53449
P 42	.	.	.	.	.	.	.	.	.	.	53457
P 44	.	.	.	.	.	.	.	.	.	.	53459
P 47	.	.	.	.	.	.	.	.	.	.	53462
P 49	.	.	.	.	.	.	.	.	.	.	53464
P 55	.	.	.	.	.	.	.	.	.	.	53470
P 57	.	.	.	.	8.85	6.82 \pm 1.75	0.45	2.41	.	.	53494
P 63	.	.	.	.	.	.	.	.	.	.	53473
P 69	.	.	.	.	.	.	.	.	.	.	53479
P 73	.	.	.	.	.	.	.	.	.	.	53483
P 76	53486
P 84	53493
P 99	9.04	6.79 \pm 1.55	0.33	2.66	.	.	53506
P 103	10.10	6.63 \pm 1.60	0.45	2.64	.	.	53510

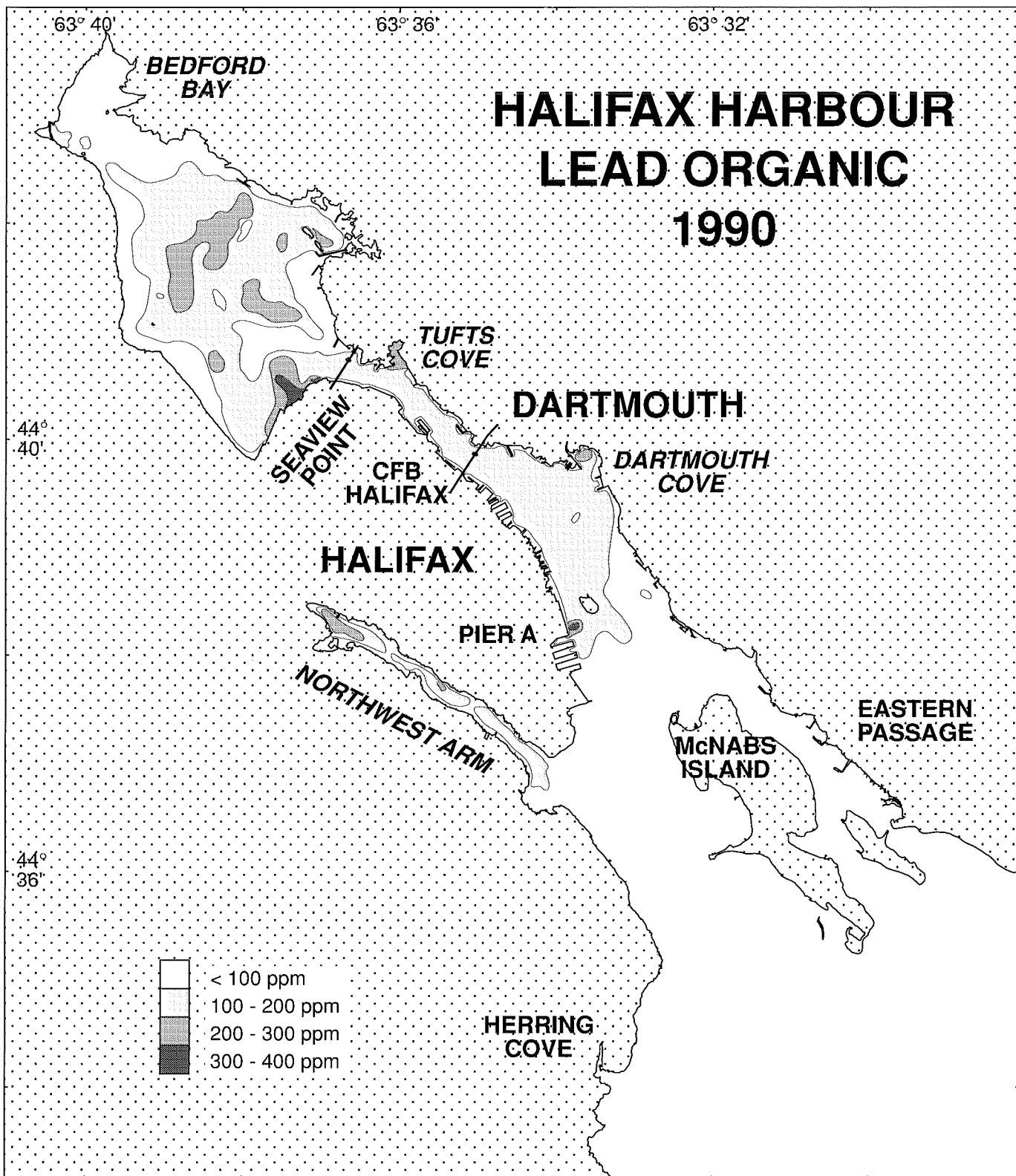


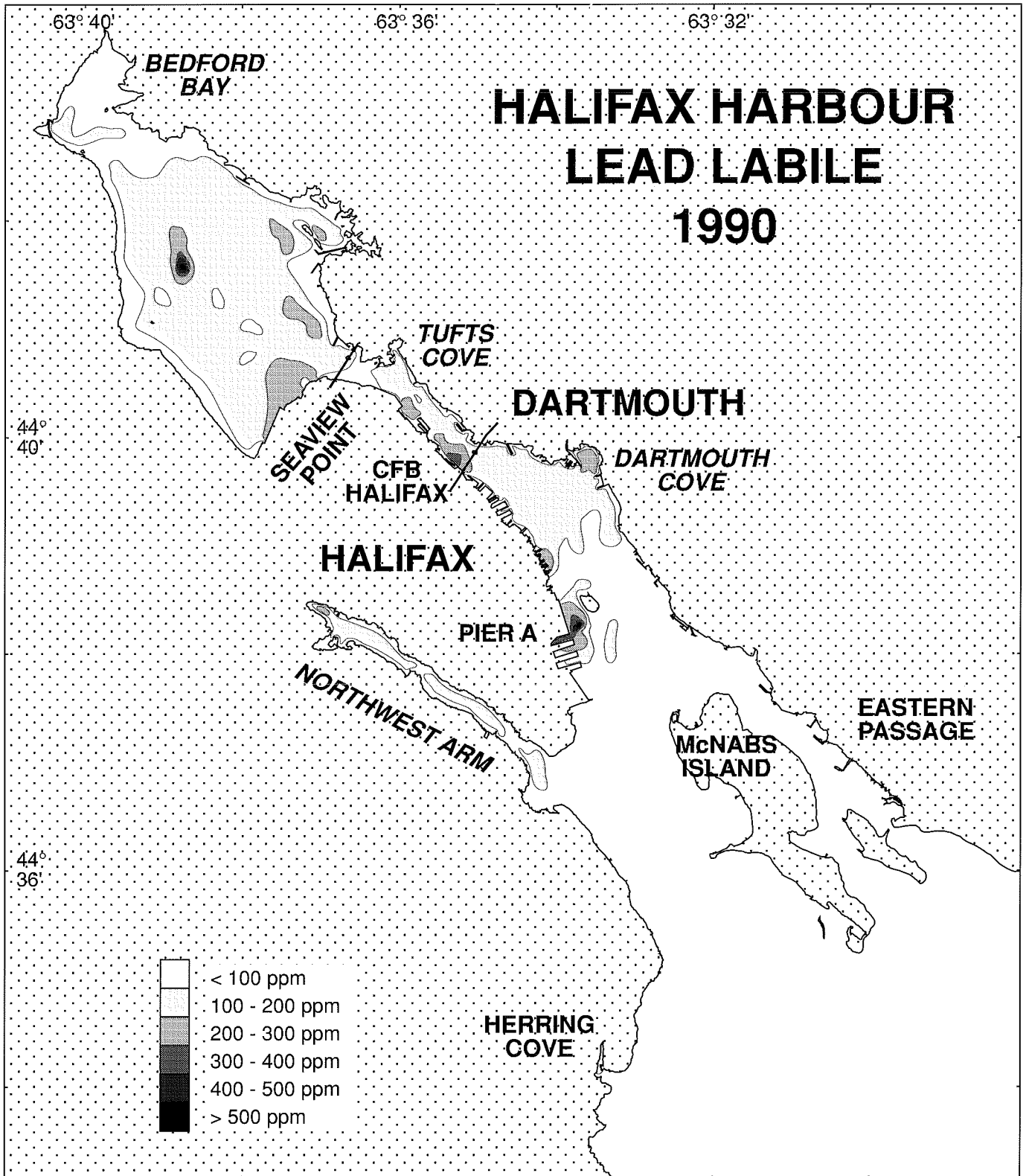


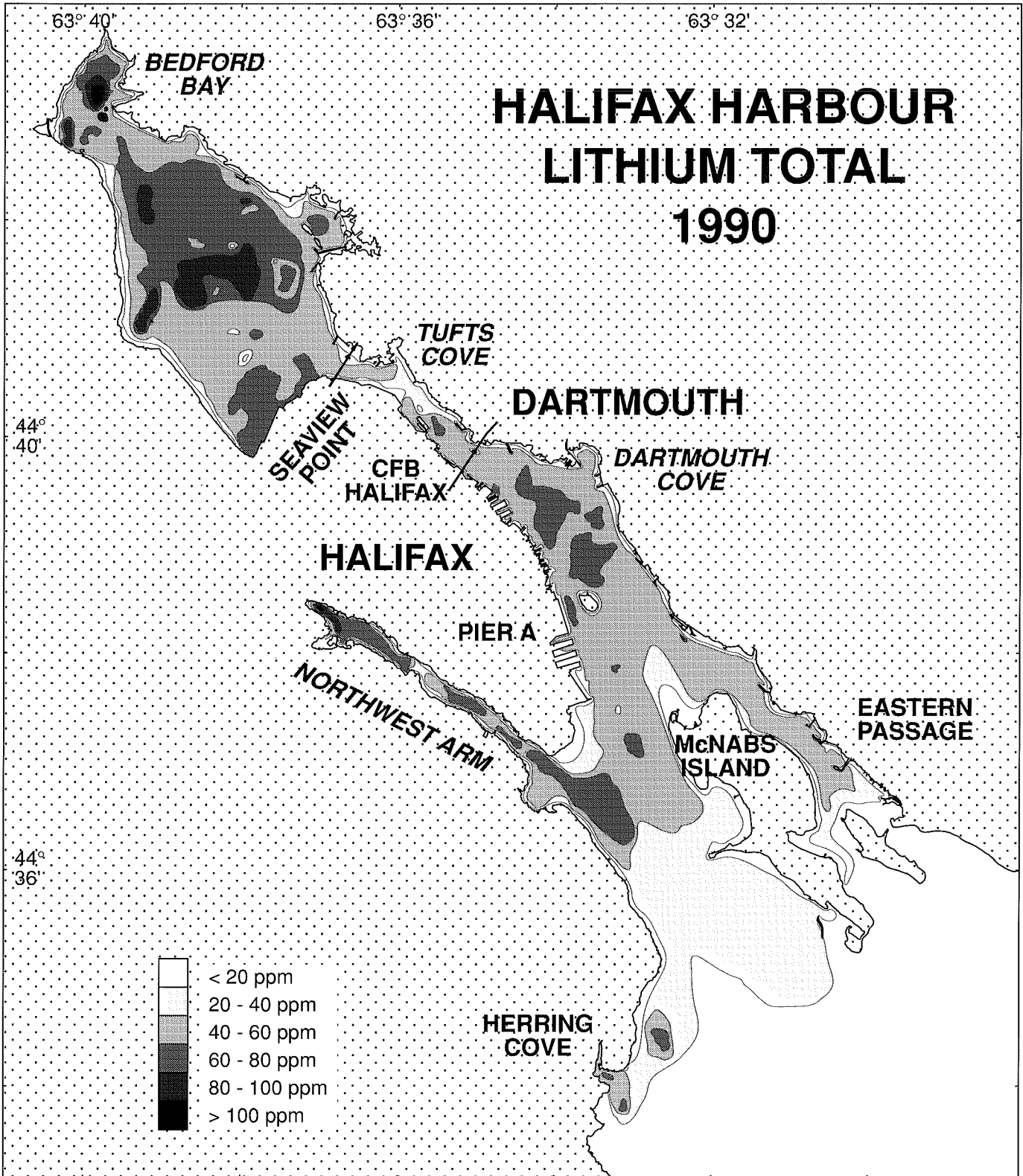


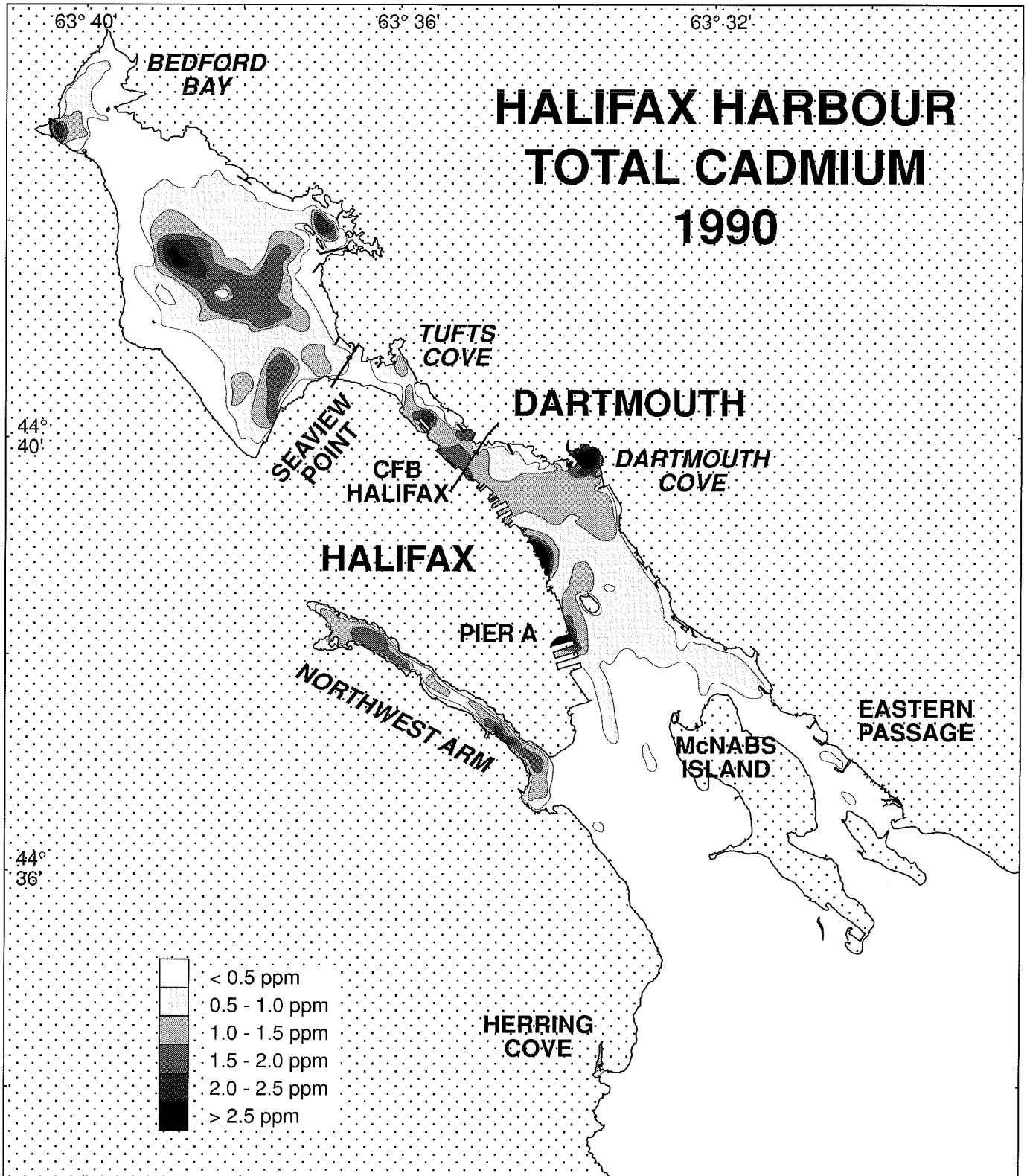


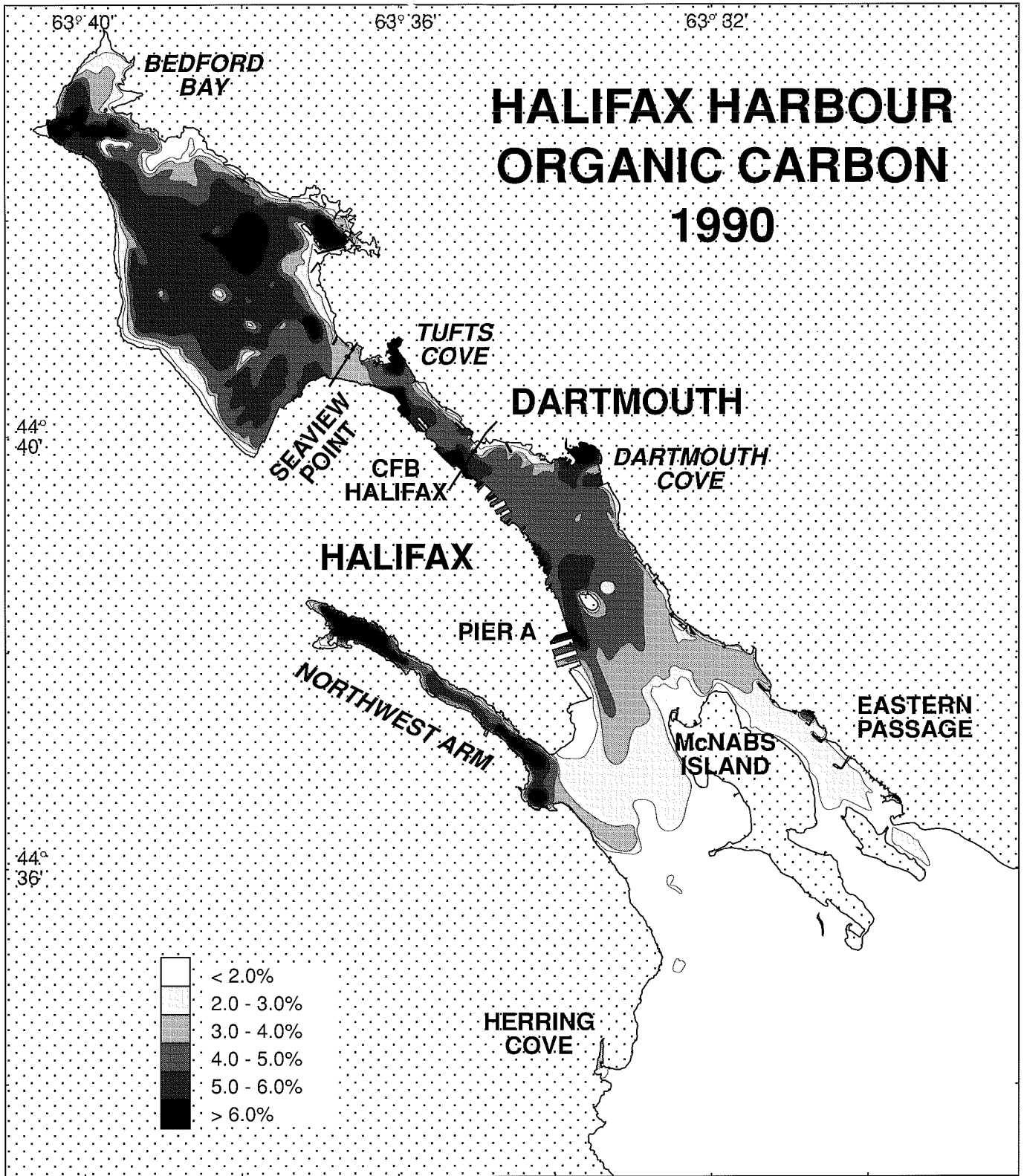


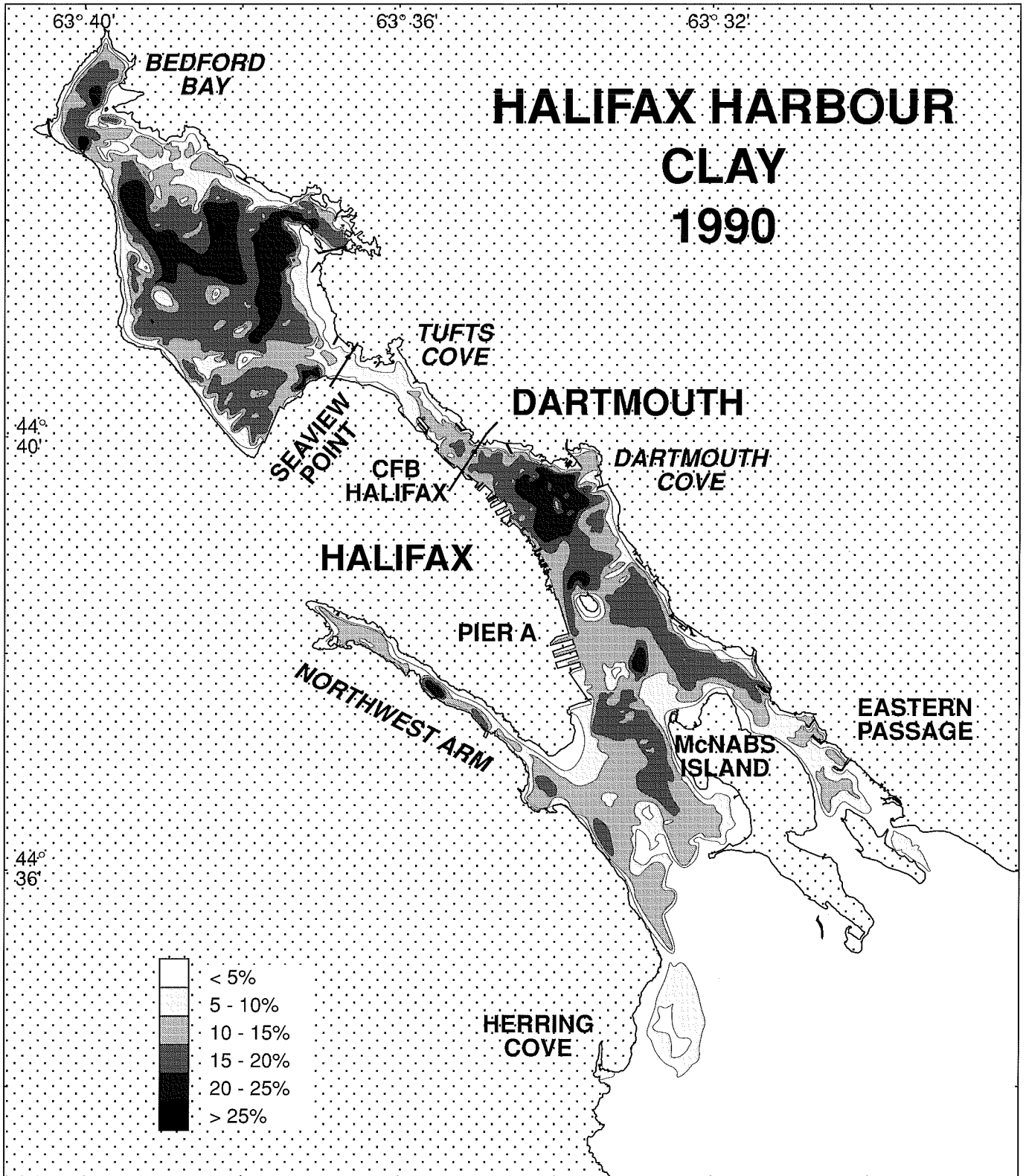


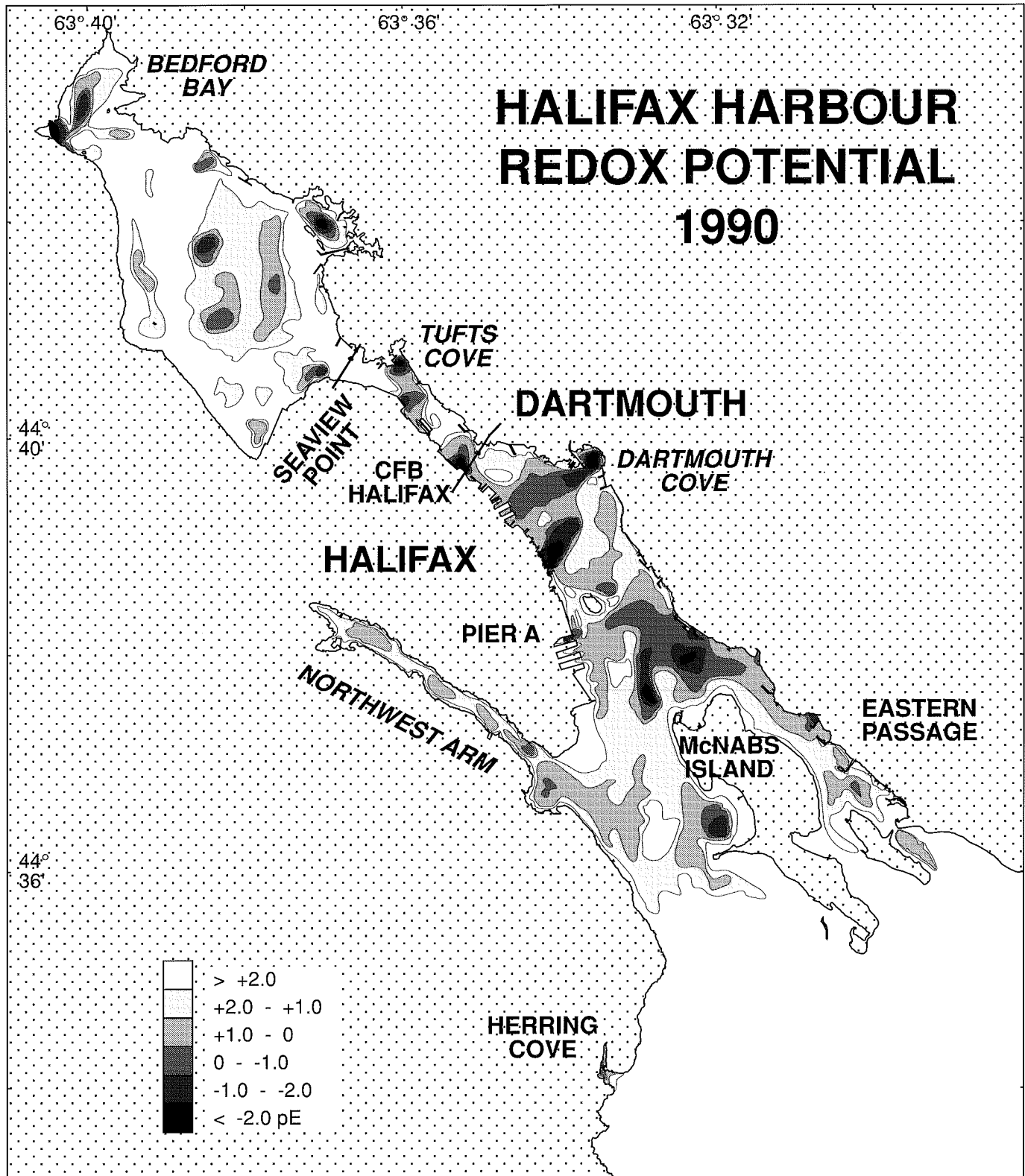












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