

### BU07-1

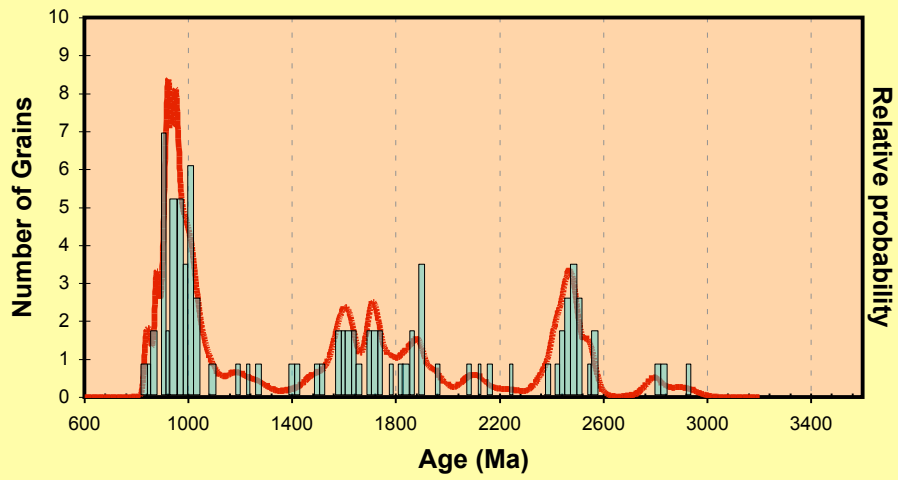


Table 1: U-Pb (zircon) geochronological analyses by Laser-Ablation Multicollector ICP Mass Spectrometry

Analysis	Isotopic ratios										Apparent ages (Ma)					
	U	206Pb	U/Th	207Pb*	±	206Pb*	±	error	206Pb*	±	207Pb*	±	206Pb*	±	Best age	±
	(ppm)	204Pb		235U	(%)	238U	(%)	corr.	238U	(Ma)	235U	(Ma)	207Pb*	(Ma)	(Ma)	(Ma)
NBH5-85	359	19065	1.6	0.87837	3.5	0.07754	3.0	0.87	481.4	14.0	640.1	16.4	1249.4	32.9	481.4	14.0
NBH5-81	419	27635	1.4	0.60953	5.1	0.07826	2.5	0.49	485.7	11.9	483.3	19.8	471.5	99.1	485.7	11.9
NBH5-1	1697	16887	1.1	0.93696	9.8	0.08742	9.2	0.94	540.3	47.4	671.3	48.1	1140.1	68.9	540.3	47.4
NBH5-15	1743	44412	2.5	0.86077	6.5	0.08753	6.2	0.95	540.9	32.2	630.5	30.7	966.7	41.0	540.9	32.2
NBH5-38	199	14346	1.5	0.92588	4.9	0.09320	4.2	0.85	574.4	22.8	665.5	24.0	987.4	53.3	574.4	22.8
NBH5-33	209	21661	1.7	1.57191	4.2	0.15934	3.2	0.77	953.1	28.6	959.2	25.9	973.1	53.9	973.1	53.9
NBH5-16	315	31634	2.0	1.64551	1.6	0.16560	1.2	0.73	987.8	10.6	987.8	10.1	987.8	22.3	987.8	22.3
NBH5-52	208	31914	0.7	1.66080	5.2	0.16708	2.9	0.55	996.0	26.6	993.7	33.2	988.6	89.2	988.6	89.2
NBH5-12	255	37536	3.7	1.71896	4.1	0.17279	1.5	0.36	1027.5	14.2	1015.6	26.5	990.2	78.1	990.2	78.1
NBH5-65	175	21164	1.9	1.64073	3.5	0.16454	1.5	0.42	982.0	13.5	986.0	22.3	994.9	65.2	994.9	65.2
NBH5-49	341	46389	1.7	1.71316	2.9	0.17140	1.6	0.56	1019.8	15.2	1013.5	18.5	999.8	48.6	999.8	48.6
NBH5-71	239	25022	1.5	1.64631	1.9	0.16390	1.4	0.72	978.4	12.8	988.1	12.3	1009.8	27.2	1009.8	27.2
NBH5-100	432	44318	1.2	1.52889	5.9	0.15105	4.1	0.70	906.9	34.7	942.1	36.0	1025.3	84.8	1025.3	84.8
NBH5-54	306	66931	2.0	1.71425	4.4	0.16890	1.7	0.39	1006.1	15.7	1013.9	28.0	1030.8	81.3	1030.8	81.3
NBH5-61	227	17253	0.8	1.69822	3.8	0.16542	2.8	0.74	986.8	25.7	1007.9	24.4	1053.8	52.0	1053.8	52.0
NBH5-3	305	33771	2.3	1.87389	3.7	0.18182	1.5	0.42	1076.9	15.3	1071.9	24.4	1061.7	67.4	1061.7	67.4
NBH5-48	405	60954	0.8	1.95053	2.5	0.18657	1.4	0.59	1102.8	14.7	1098.6	16.5	1090.4	39.7	1090.4	39.7
NBH5-86	107	12749	0.9	1.72004	4.3	0.16427	1.7	0.40	980.4	15.7	1016.0	27.8	1093.5	79.6	1093.5	79.6
NBH5-24	592	76125	1.9	2.05175	4.2	0.19357	1.4	0.34	1140.7	14.7	1132.9	28.6	1118.0	78.6	1118.0	78.6
NBH5-59	762	64225	0.8	1.87080	4.0	0.17588	2.6	0.63	1044.4	24.7	1070.8	26.8	1124.9	62.4	1124.9	62.4
NBH5-20	542	59878	2.1	1.94381	7.3	0.18140	6.1	0.83	1074.6	60.5	1096.3	49.3	1139.6	81.0	1139.6	81.0
NBH5-98	451	93864	4.2	2.03467	3.0	0.18902	2.4	0.80	1116.1	25.0	1127.2	20.6	1148.6	35.8	1148.6	35.8
NBH5-77	236	17365	0.7	2.15529	3.8	0.19812	2.9	0.77	1165.2	30.9	1166.8	26.1	1169.6	47.7	1169.6	47.7
NBH5-68	131	18510	0.8	2.15135	2.8	0.19593	1.3	0.48	1153.4	14.1	1165.5	19.2	1188.0	48.0	1188.0	48.0
NBH5-63	527	58256	0.9	2.16585	2.7	0.19613	1.7	0.61	1154.5	17.5	1170.2	18.8	1199.2	42.4	1199.2	42.4
NBH5-88	658	84802	11.5	2.39477	2.3	0.21126	1.6	0.68	1235.5	17.9	1241.0	16.7	1250.6	33.3	1250.6	33.3
NBH5-76	699	81974	3.0	2.35284	2.4	0.20761	1.7	0.69	1215.5	18.6	1228.4	17.4	1251.1	34.8	1251.1	34.8
NBH5-67	2956	68121	3.8	1.03583	2.8	0.08909	1.5	0.52	550.1	7.7	721.8	14.7	1300.1	47.4	1300.1	47.4
NBH5-57	755	77110	2.1	2.53858	5.7	0.21721	5.0	0.88	1267.1	57.7	1283.2	41.3	1310.1	51.2	1310.1	51.2
NBH5-42	467	30371	0.9	2.19914	5.1	0.18814	2.4	0.46	1111.3	24.0	1180.8	35.4	1310.4	87.2	1310.4	87.2
NBH5-56	352	60247	3.1	2.62238	3.3	0.22185	2.8	0.86	1291.6	33.0	1306.9	24.1	1332.1	32.1	1332.1	32.1
NBH5-26	230	51306	1.4	2.87036	5.0	0.24149	1.7	0.34	1394.5	21.3	1374.2	37.5	1342.8	90.5	1342.8	90.5
NBH5-78	256	42793	1.7	2.76855	2.0	0.23226	1.1	0.56	1346.3	13.8	1347.1	15.1	1348.3	32.5	1348.3	32.5
NBH5-69	380	83958	3.3	2.83281	2.6	0.23749	1.0	0.39	1373.6	12.4	1364.3	19.2	1349.6	45.6	1349.6	45.6
NBH5-44	327	52131	0.3	2.71330	3.7	0.22639	2.0	0.53	1315.5	23.7	1332.1	27.7	1358.8	60.7	1358.8	60.7
NBH5-36	300	59493	1.8	2.83166	2.7	0.23617	2.0	0.75	1366.8	24.6	1364.0	20.1	1359.5	34.3	1359.5	34.3
NBH5-75	502	76472	1.2	2.77980	2.5	0.23102	1.9	0.74	1339.8	22.5	1350.1	18.7	1366.5	32.4	1366.5	32.4
NBH5-97	474	73296	1.6	2.85009	2.3	0.23653	1.4	0.63	1368.6	17.5	1368.8	17.1	1369.1	34.1	1369.1	34.1
NBH5-27	290	62902	1.3	3.06088	7.6	0.25234	2.9	0.38	1450.6	37.2	1423.0	58.0	1381.9	134.8	1381.9	134.8
NBH5-30	487	74218	0.7	2.63597	6.6	0.21717	6.2	0.94	1266.9	71.1	1310.7	48.4	1383.1	42.3	1383.1	42.3
NBH5-90	206	24158	1.4	2.78243	3.8	0.22887	1.8	0.49	1328.6	22.1	1350.8	28.1	1386.2	62.9	1386.2	62.9
NBH5-39	151	28975	1.6	2.93291	2.2	0.23968	1.7	0.78	1385.0	21.1	1390.4	16.5	1398.8	26.3	1398.8	26.3
NBH5-45	279	71117	0.8	3.23457	4.0	0.25654	1.7	0.42	1472.1	22.4	1465.5	31.3	1455.9	69.4	1455.9	69.4
NBH5-37	883	136324	10.1	3.05038	3.2	0.24147	1.5	0.47	1394.3	18.5	1420.3	24.2	1459.5	53.2	1459.5	53.2
NBH5-92	121	24565	0.9	3.40125	2.4	0.26479	1.4	0.58	1514.3	18.8	1504.7	18.8	1491.2	36.8	1491.2	36.8
NBH5-40	838	93923	1.4	3.24895	8.6	0.25259	6.3	0.73	1451.8	81.6	1468.9	66.7	1493.7	110.8	1493.7	110.8
NBH5-80	393	47206	0.6	2.79491	9.5	0.21614	9.0	0.95	1261.5	103.2	1354.2	70.8	1503.8	54.4	1503.8	54.4
NBH5-62	347	49857	3.2	3.42227	2.3	0.26403	1.2	0.50	1510.4	15.5	1509.5	18.2	1508.2	38.0	1508.2	38.0
NBH5-60	61	11923	0.9	3.13867	4.2	0.24186	2.7	0.65	1396.4	34.5	1442.2	32.6	1510.5	60.8	1510.5	60.8
NBH5-13	297	49902	1.4	3.44867	5.1	0.26221	2.1	0.42	1501.2	28.4	1515.6	39.8	1535.7	86.4	1535.7	86.4
NBH5-11	102	17620	1.3	3.79268	2.5	0.28190	1.7	0.69	1600.9	24.5	1591.2	20.2	1578.3	34.2	1578.3	34.2
NBH5-25	851	150346	1.2	3.79306	5.1	0.28139	1.9	0.38	1598.3	27.2	1591.3	41.2	1581.9	88.9	1581.9	88.9
NBH5-23	133	27751	0.9	3.65585	6.4	0.27115	1.9	0.30	1546.7	26.7	1561.8	51.1	1582.3	114.2	1582.3	114.2
NBH5-53	210	17087	2.4	2.69599	9.3	0.19896	7.4	0.79	1169.7	78.7	1327.4	68.9	1591.7	106.2	1591.7	106.2
NBH5-94	130	23465	1.3	3.51581	4.9	0.25834	2.8	0.56	1481.4	36.6	1530.8	39.0	1599.7	76.2	1599.7	76.2
NBH5-28	288	56170	1.6	3.77398	2.4	0.27675	2.2	0.91	1575.0	30.1	1587.2	19.1	1603.5	18.7	1603.5	18.7
NBH5-18	176	28163	0.8	3.60985	3.3	0.26405	2.3	0.69	1510.5	31.0	1551.7	26.5	1608.2	44.8	1608.2	44.8
NBH5-55	596	135623	2.5	3.76556	4.8	0.27359	2.7	0.56	1559.0	37.2	1585.4	38.5	1620.8	74.1	1620.8	74.1
NBH5-32	264	80016	1.2	3.85148	6.2	0.27962	3.4	0.54	1589.5	47.7	1603.6	50.1	1622.1	97.0	1622.1	97.0
NBH5-19	217	38729	1.0	4.02506	4.7	0.28914	1.4	0.30	1637.3	20.3	1639.3	38.4	1641.9	83.6	1641.9	83.6
NBH5-9	129	32292	1.3	4.01716	2.2	0.28636	1.0	0.48	1623.3	14.8	1637.8	17.6	1656.4	35.2	1656.4	35.2
NBH5-14	137	11316	1.0	3.55610	6.6	0.24944	5.2	0.78	1435.6	66.4	1539.8	52.5	1685.9	76.5	1685.9	76.5
NBH5-95	199	40207	0.9	4.39313	3.2	0.30778	1.0	0.31	1729.8	15.2	1711.0	26.9	1688.2	57.0	1688.2	57.0
NBH5-70	220	33649	1.2	4.26504	6.7	0.29636	6.4	0.95	1673.2	93.8	1686.6	55.4	1703.3	39.8	1703.3	39.8
NBH5-82	691	163923	2.1	3.93927	5.0	0.26777	2.7	0.54	1529.5	37.2	1621.8	40.9	1743.7	77.7	1743.7	77.7
NBH5-8	278	57776	1.3	4.46154	4.6	0.30320	2.8	0.61	1707.2	42.5	1723.8	38.5	1744.1	67.3	1744.1	67.3
NBH5-89	226	59791	1.8	4.66959	2.4	0.31445	1.5	0.63	1762.6	23.3	1761.8	20.0	1760.9	34.0	1760.9	34.0
NBH5-91	152	38829	1.3	4.73024	3.4	0.31692	1.5	0.43	1774.7	22.8	1772.6	28.8	1770.2	56.8	1770.2	56.8
NBH5-47	254	51120	1.7	4.65069	2.5	0.31062	1.1	0.44	1743.8	17.0	1758.4	21.0	1775.9	41.1	1775.9	41.1
NBH5-58	148	27865	1.5	4.67419	3.0	0.31139	1.8	0.59	1747.5	27.0	1762.6	24.9	1780.6	43.6	1780.6	43.6
NBH5-99	202	23549	2.8	4.70813	5.2	0.31357	4.0</									

NBH7-49	164	21903	1.5	1.80071	4.6	0.17894	2.8	0.61	1061.2	27.4	1045.7	30.2	1013.5	74.5	1013.5	74.5
NBH7-91	422	42934	3.4	1.68459	4.4	0.16671	1.0	0.23	994.0	9.2	1002.7	28.2	1021.9	87.3	1021.9	87.3
NBH7-39	319	18290	3.4	1.63200	3.5	0.15688	2.5	0.72	939.4	21.7	982.6	21.8	1080.5	48.5	1080.5	48.5
NBH7-86	329	43161	1.9	2.07838	1.6	0.19471	1.0	0.63	1146.8	10.5	1141.7	10.9	1131.9	24.7	1131.9	24.7
NBH7-64	324	34511	1.6	2.06598	4.9	0.19150	3.4	0.70	1129.5	35.4	1137.6	33.5	1153.0	69.5	1153.0	69.5
NBH7-83	193	24059	2.1	2.10901	2.9	0.19493	1.5	0.53	1148.1	15.9	1151.8	19.8	1158.7	48.4	1158.7	48.4
NBH7-22	222	31740	1.6	2.13713	3.6	0.19576	1.3	0.37	1152.5	13.9	1160.9	24.9	1176.5	66.3	1176.5	66.3
NBH7-48	257	37385	1.7	2.19917	1.8	0.20104	1.4	0.74	1180.9	14.6	1180.8	12.7	1180.5	24.2	1180.5	24.2
NBH7-4	485	55944	1.6	2.20733	1.7	0.20133	1.0	0.58	1182.5	10.8	1183.4	12.1	1185.0	27.9	1185.0	27.9
NBH7-99	100	12735	0.9	2.29691	4.0	0.20814	3.0	0.74	1218.9	32.9	1211.3	28.3	1197.8	53.0	1197.8	53.0
NBH7-80	170	17800	1.0	2.18142	3.3	0.19663	2.4	0.72	1157.2	25.4	1175.1	23.1	1208.4	45.3	1208.4	45.3
NBH7-82	69	9678	0.7	2.20322	3.2	0.19811	2.3	0.72	1165.1	24.9	1182.1	22.6	1213.2	44.2	1213.2	44.2
NBH7-67	271	22443	2.2	1.92398	4.6	0.17188	2.1	0.45	1022.5	19.6	1089.5	30.6	1225.9	80.2	1225.9	80.2
NBH7-2	456	44563	5.1	2.36576	2.4	0.21126	1.3	0.56	1235.5	15.1	1232.3	17.2	1226.7	39.1	1226.7	39.1
NBH7-44	199	10308	1.0	2.31160	4.3	0.20303	1.6	0.37	1191.6	17.2	1215.9	30.2	1259.2	77.4	1259.2	77.4
NBH7-72	444	38528	1.2	2.28007	2.7	0.19997	1.0	0.37	1175.1	10.7	1206.1	18.9	1262.1	48.7	1262.1	48.7
NBH7-31	72	12223	0.5	2.30400	4.1	0.20183	3.1	0.75	1185.1	33.3	1213.5	29.2	1264.3	53.5	1264.3	53.5
NBH7-3	602	38441	1.5	2.38086	3.2	0.20577	1.0	0.32	1206.2	11.4	1236.9	23.1	1290.6	59.6	1290.6	59.6
NBH7-54	150	24063	1.8	2.67162	2.4	0.22862	1.0	0.41	1327.3	12.0	1320.6	18.1	1309.9	43.3	1309.9	43.3
NBH7-7	67	7711	1.4	2.76303	2.7	0.23509	1.0	0.37	1361.1	12.3	1345.6	20.3	1321.0	49.2	1321.0	49.2
NBH7-73	189	14620	1.9	2.54860	3.1	0.21662	2.2	0.72	1264.0	25.8	1286.0	22.9	1320.4	42.3	1320.4	42.3
NBH7-68	195	30460	1.4	2.72056	3.8	0.22786	2.1	0.54	1323.3	24.9	1334.1	28.5	1351.5	62.2	1351.5	62.2
NBH7-33	1167	70446	4.1	2.47316	4.2	0.20661	2.2	0.53	1210.8	24.8	1264.2	30.4	1356.4	68.5	1356.4	68.5
NBH7-15	585	58629	0.6	2.64332	3.5	0.22068	2.7	0.78	1285.5	31.6	1312.8	25.6	1357.7	41.7	1357.7	41.7
NBH7-25	128	23786	1.4	2.86038	4.1	0.23815	3.6	0.88	1377.1	44.9	1371.5	30.9	1362.9	37.4	1362.9	37.4
NBH7-58	126	14939	1.3	2.56640	4.4	0.21338	3.4	0.77	1246.8	38.8	1291.1	32.4	1365.6	54.4	1365.6	54.4
NBH7-41	348	48567	1.6	2.94404	2.4	0.24255	1.0	0.42	1400.0	12.6	1393.3	18.0	1383.1	41.5	1383.1	41.5
NBH7-34	566	69099	5.1	2.38847	4.6	0.19604	2.4	0.53	1154.0	25.8	1239.2	32.8	1390.4	74.3	1390.4	74.3
NBH7-69	237	29824	1.7	2.83702	3.1	0.23279	2.7	0.86	1349.1	32.4	1365.4	23.2	1390.9	30.2	1390.9	30.2
NBH7-85	710	58159	7.0	2.63866	4.1	0.21605	2.7	0.67	1261.0	31.1	1311.5	30.0	1395.0	58.1	1395.0	58.1
NBH7-100	315	42562	0.9	3.07515	2.7	0.24853	1.0	0.38	1430.9	13.2	1426.5	20.9	1420.0	48.4	1420.0	48.4
NBH7-46	288	24446	2.7	2.92364	3.5	0.23609	2.5	0.70	1366.4	30.2	1388.0	26.5	1421.5	47.6	1421.5	47.6
NBH7-94	129	21836	1.7	2.99990	5.0	0.24157	3.2	0.65	1394.9	40.4	1407.6	37.9	1426.9	72.4	1426.9	72.4
NBH7-65	404	55680	3.7	3.06192	2.1	0.24439	1.4	0.65	1409.5	17.5	1423.2	16.4	1443.8	31.1	1443.8	31.1
NBH7-50	605	60523	1.5	2.86417	4.0	0.22715	2.2	0.55	1319.5	26.4	1372.5	30.4	1456.0	64.1	1456.0	64.1
NBH7-43	220	21768	1.0	3.07983	4.6	0.24330	2.1	0.46	1403.8	26.7	1427.7	35.0	1463.4	76.8	1463.4	76.8
NBH7-6	618	30501	1.6	2.79649	4.3	0.21982	4.2	0.97	1280.9	48.4	1354.6	32.1	1472.9	19.0	1472.9	19.0
NBH7-81	200	31406	2.0	3.33826	3.2	0.26214	1.4	0.45	1500.8	19.3	1490.0	25.0	1474.8	54.3	1474.8	54.3
NBH7-11	231	33937	1.1	3.24323	2.6	0.25267	1.6	0.64	1452.3	21.4	1467.6	20.0	1489.8	37.7	1489.8	37.7
NBH7-52	266	42466	1.1	3.35337	2.4	0.26053	1.9	0.82	1492.6	25.7	1493.6	18.4	1495.0	25.6	1495.0	25.6
NBH7-42	84	10116	0.6	3.44987	3.2	0.26402	1.1	0.35	1510.4	14.9	1515.8	25.1	1523.5	56.4	1523.5	56.4
NBH7-74	421	42218	1.2	3.19489	2.9	0.24196	2.1	0.71	1396.9	25.9	1455.9	22.3	1543.2	38.0	1543.2	38.0
NBH7-20	101	11495	1.0	3.58722	3.0	0.26926	2.6	0.85	1537.0	34.9	1546.7	23.8	1559.9	29.5	1559.9	29.5
NBH7-12	251	31764	1.1	3.64359	2.1	0.27137	1.0	0.47	1547.8	13.8	1559.1	16.9	1574.5	35.0	1574.5	35.0
NBH7-35	182	40254	1.3	3.73754	2.9	0.27735	1.4	0.48	1578.0	19.7	1579.4	23.6	1581.3	48.5	1581.3	48.5
NBH7-62	114	19853	1.4	3.67974	4.9	0.27226	4.1	0.83	1552.3	56.0	1567.0	39.2	1586.9	51.7	1586.9	51.7
NBH7-21	130	21207	1.3	3.76214	3.6	0.27755	1.4	0.39	1579.0	19.9	1584.7	29.1	1592.3	62.4	1592.3	62.4
NBH7-90	101	21034	0.7	3.85859	1.6	0.28258	1.0	0.62	1604.3	14.2	1605.1	13.0	1606.0	23.6	1606.0	23.6
NBH7-45	233	53286	1.1	4.04128	2.4	0.29333	1.3	0.55	1658.2	19.5	1642.5	19.8	1622.6	37.8	1622.6	37.8
NBH7-26	78	10279	1.2	3.90660	5.8	0.28149	4.3	0.74	1598.9	60.8	1615.0	46.9	1636.2	72.4	1636.2	72.4
NBH7-87	197	39359	1.5	4.10834	1.7	0.29293	1.0	0.59	1656.2	14.9	1656.0	14.2	1655.7	26.1	1655.7	26.1
NBH7-19	32	6473	2.3	4.16138	3.7	0.29669	2.8	0.76	1674.9	41.3	1666.5	30.0	1655.9	43.8	1655.9	43.8
NBH7-24	373	65357	4.4	4.15554	3.4	0.29409	1.3	0.40	1661.9	19.5	1665.3	27.5	1669.5	57.2	1669.5	57.2
NBH7-18	162	28095	1.6	4.32628	3.4	0.30155	1.6	0.48	1699.0	24.3	1698.4	27.7	1697.6	54.2	1697.6	54.2
NBH7-32	1107	32148	2.1	2.11932	5.0	0.14757	4.8	0.96	887.4	39.5	1155.1	34.2	1699.4	25.1	1699.4	25.1
NBH7-14	159	26374	1.4	4.40237	2.8	0.30580	1.0	0.36	1720.0	15.1	1712.8	23.0	1704.0	47.7	1704.0	47.7
NBH7-23	206	34995	1.5	4.44969	3.5	0.30824	2.3	0.65	1732.0	34.4	1721.6	28.7	1709.0	48.2	1709.0	48.2
NBH7-55	158	33077	1.1	4.36553	2.3	0.30207	1.8	0.78	1701.6	27.2	1705.8	19.2	1711.1	26.7	1711.1	26.7
NBH7-51	413	87824	2.3	4.34188	3.6	0.30000	2.0	0.56	1691.3	29.8	1701.4	29.5	1713.7	54.5	1713.7	54.5
NBH7-75	424	41467	1.3	4.21320	4.6	0.29085	3.0	0.66	1645.8	44.3	1676.6	37.7	1715.4	63.3	1715.4	63.3
NBH7-40	186	39647	1.4	4.40528	2.9	0.30273	1.6	0.56	1704.8	24.5	1713.3	24.0	1723.8	44.1	1723.8	44.1
NBH7-57	567	54994	2.6	4.06268	3.2	0.27902	1.9	0.58	1586.4	26.1	1646.8	26.2	1724.8	48.3	1724.8	48.3
NBH7-59	274	53352	1.2	4.62941	3.1	0.31655	1.4	0.44	1772.9	21.6	1754.6	26.1	1732.9	51.4	1732.9	51.4
NBH7-29	168	44273	0.9	4.53194	5.5	0.30846	2.4	0.43	1733.1	36.3	1736.9	46.1	1741.3	91.5	1741.3	91.5
NBH7-56	607	59217	1.4	3.84965	2.4	0.26178	1.5	0.63	1498.9	20.0	1603.2	19.3	1743.0	34.3	1743.0	34.3
NBH7-38	270	28733	1.2	3.99523	4.9	0.27152	4.3	0.87	1548.5	58.8	1633.2	39.9	1744.1	44.5	1744.1	44.5
NBH7-95	129	29986	1.8	4.77530	2.7	0.32073	1.2	0.44	1793.3	18.7	1780.6	23.0	1765.7	45.1	1765.7	45.1
NBH7-96	117	24299	1.4	4.62833	2.4	0.31039	1.9	0.79	1742.6	28.3	1754.4	19.7	1768.4	26.6	1768.4	26.6
NBH7-27	117	28763	1.4	4.77510	3.5	0.31996	2.5	0.70	1789.5	38.4	1780.5	29.5	1770.0	45.7	1770.0	45.7
NBH7-8	150	28618	1.0	4.80592	1.4	0.31966	1.0	0.71	1788.1	15.6	1785.9	11.9	1783.4	18.3	1783.4	18.3
NBH7-9	99	18621	0.8	4.79054	3.0	0.31673	1.1	0.37	1773.7	17.3	1783.2	25.0	1794.4	50.3	1794.4	50.3
NBH7-93	123	23242	1.2	4.78788	3.2	0.31648	2.8	0.87	1772.5	43.3	1782.8	26.9	1794.8	28.4	1794.8	28.4
NBH7-77	142	15539	1.0	4.26138	3.0	0.28148	2.8	0.91	1598.8	39.0	1685.9	24.8</				

NBH9-46	390	84131	1.1	5.25603	3.8	0.33802	1.4	0.37	1877.1	23.0	1861.8	32.4	1844.6	63.9	1844.6	63.9
NBH9-68	496	83294	1.5	5.09268	3.8	0.32554	2.9	0.76	1816.7	45.8	1834.9	32.2	1855.5	44.5	1855.5	44.5
NBH9-59	1069	172959	4.2	5.25016	3.5	0.33475	2.7	0.79	1861.4	44.2	1860.8	29.6	1860.1	38.5	1860.1	38.5
NBH9-79	133	32559	0.8	5.21323	2.5	0.33202	1.5	0.59	1848.2	24.1	1854.8	21.7	1862.2	37.2	1862.2	37.2
NBH9-16	1022	202344	7.7	5.26844	3.0	0.33523	2.1	0.69	1863.7	33.5	1863.8	25.5	1863.8	39.0	1863.8	39.0
NBH9-5	849	141854	7.7	5.31161	3.2	0.33531	1.9	0.61	1864.1	31.5	1870.7	27.2	1878.1	45.4	1878.1	45.4
NBH9-76	305	85056	2.3	5.40804	2.5	0.34134	1.8	0.73	1893.1	30.0	1886.1	21.3	1878.4	30.5	1878.4	30.5
NBH9-1	409	72365	2.0	5.19801	2.7	0.32726	2.0	0.77	1825.1	32.6	1852.3	22.7	1883.0	30.6	1883.0	30.6
NBH9-13	192	44382	1.4	5.51701	2.9	0.34709	1.0	0.35	1920.7	16.6	1903.3	24.7	1884.3	48.5	1884.3	48.5
NBH9-93	167	58844	1.3	5.42513	2.8	0.34075	1.9	0.67	1890.3	30.3	1888.8	23.8	1887.2	37.1	1887.2	37.1
NBH9-98	278	67987	0.4	5.64187	3.0	0.35199	1.0	0.33	1944.1	16.8	1922.5	25.8	1899.3	50.7	1899.3	50.7
NBH9-12	487	93339	1.9	5.56878	2.5	0.34711	1.0	0.39	1920.8	16.6	1911.3	21.9	1901.0	42.1	1901.0	42.1
NBH9-95	516	126558	5.5	5.55295	3.3	0.34607	2.9	0.88	1915.8	48.2	1908.8	28.5	1901.3	28.2	1901.3	28.2
NBH9-75	318	89773	4.9	5.43415	1.5	0.33799	1.0	0.70	1877.0	16.8	1890.3	12.6	1904.9	18.9	1904.9	18.9
NBH9-61	1080	241808	7.8	5.63878	2.4	0.35051	1.4	0.58	1937.1	23.7	1922.0	21.1	1905.9	35.7	1905.9	35.7
NBH9-72	1023	207194	19.6	5.60618	1.6	0.34810	1.1	0.68	1925.5	18.3	1917.0	14.0	1907.9	21.5	1907.9	21.5
NBH9-90	423	78192	3.4	5.66163	3.5	0.35083	2.6	0.74	1938.5	43.6	1925.5	30.5	1911.6	42.9	1911.6	42.9
NBH9-74	866	147963	0.7	5.54486	2.5	0.34280	2.3	0.92	1900.1	38.6	1907.6	21.9	1915.7	17.9	1915.7	17.9
NBH9-60	559	164649	2.8	5.71569	2.7	0.35308	1.4	0.52	1949.3	23.3	1933.7	23.1	1917.1	40.9	1917.1	40.9
NBH9-92	1046	180904	11.6	5.68213	2.4	0.34991	1.2	0.51	1934.2	20.3	1928.7	20.6	1922.7	36.8	1922.7	36.8
NBH9-33	208	66396	1.4	5.78346	2.6	0.35520	1.5	0.57	1959.4	25.3	1943.9	22.6	1927.5	38.3	1927.5	38.3
NBH9-45	546	118181	0.8	5.76825	2.8	0.35310	1.7	0.62	1949.4	28.8	1941.7	23.9	1933.4	38.9	1933.4	38.9
NBH9-9	78	21992	0.6	5.81981	3.7	0.35601	2.8	0.75	1963.3	47.6	1949.4	32.3	1934.6	43.7	1934.6	43.7
NBH9-47	373	58436	4.3	5.75871	3.1	0.35197	2.6	0.82	1944.0	43.2	1940.2	27.1	1936.2	32.0	1936.2	32.0
NBH9-73	485	114703	4.2	5.82930	3.3	0.35545	1.0	0.31	1960.6	16.9	1950.8	28.4	1940.4	55.8	1940.4	55.8
NBH9-64	1018	206468	12.2	5.50888	2.1	0.33573	1.1	0.51	1866.1	17.2	1902.0	17.8	1941.4	31.8	1941.4	31.8
NBH9-84	321	46455	0.6	5.81197	2.3	0.35309	1.5	0.63	1949.3	24.4	1948.2	20.0	1947.0	32.0	1947.0	32.0
NBH9-99	538	134572	6.6	6.04643	5.2	0.36699	1.6	0.31	2015.2	28.1	1982.6	45.5	1948.6	88.7	1948.6	88.7
NBH9-23	686	144633	1.4	5.93062	2.3	0.35912	1.0	0.44	1978.0	17.0	1965.7	19.7	1952.8	36.4	1952.8	36.4
NBH9-21	308	95078	2.6	5.95990	2.1	0.36042	1.0	0.47	1984.1	17.1	1970.0	18.6	1955.2	33.8	1955.2	33.8
NBH9-3	340	99773	8.0	5.94851	2.7	0.35959	2.3	0.85	1980.2	38.7	1968.3	23.2	1955.9	25.2	1955.9	25.2
NBH9-40	1254	121410	2.5	5.81333	5.8	0.35067	5.6	0.97	1937.8	93.9	1948.4	49.9	1959.7	23.0	1959.7	23.0
NBH9-56	180	50773	1.8	6.03971	3.3	0.36196	1.8	0.55	1991.4	31.3	1981.6	28.8	1971.3	49.0	1971.3	49.0
NBH9-65	267	58449	1.4	5.95695	3.7	0.35896	1.3	0.34	1967.7	21.7	1969.6	32.5	1971.5	62.6	1971.5	62.6
NBH9-54	376	62217	1.9	6.02494	3.3	0.36071	1.5	0.46	1985.5	25.9	1979.5	28.7	1973.1	52.2	1973.1	52.2
NBH9-28	454	105677	7.1	5.99532	2.1	0.35854	1.2	0.59	1975.3	21.2	1975.7	18.3	1976.2	30.1	1976.2	30.1
NBH9-26	660	136721	4.4	6.08343	1.9	0.36397	1.0	0.53	2001.0	17.2	1989.3	16.5	1977.2	28.5	1977.2	28.5
NBH9-81	338	80884	3.9	5.98004	1.7	0.35691	1.0	0.59	1967.5	17.0	1972.9	14.7	1978.7	24.2	1978.7	24.2
NBH9-4	322	81214	2.3	5.87312	3.1	0.35048	1.0	0.32	1936.9	16.7	1957.3	27.1	1978.9	52.7	1978.9	52.7
NBH9-8	900	166069	8.2	5.59065	2.8	0.33323	1.1	0.40	1854.0	17.7	1914.7	23.8	1981.0	45.2	1981.0	45.2
NBH9-78	469	94365	3.2	5.99871	2.5	0.35685	1.7	0.70	1967.2	29.6	1975.7	21.8	1984.5	31.9	1984.5	31.9
NBH9-57	425	92233	2.1	5.94952	3.5	0.35252	3.0	0.86	1946.6	49.8	1968.5	30.1	1991.6	31.7	1991.6	31.7
NBH9-43	381	76212	5.4	6.17416	2.1	0.36390	1.5	0.70	2000.6	26.0	2000.8	18.8	2000.9	27.2	2000.9	27.2
NBH9-100	352	161194	7.8	6.54132	6.1	0.38495	2.1	0.34	2099.4	37.4	2051.5	54.1	2003.7	102.5	2003.7	102.5
NBH9-31	1282	261541	2.0	6.35372	2.5	0.37313	1.0	0.39	2044.1	17.5	2025.9	22.3	2007.4	41.5	2007.4	41.5
NBH9-15	439	129077	6.5	6.13838	2.4	0.36046	1.0	0.41	1984.4	17.1	1995.7	21.2	2007.5	39.2	2007.5	39.2
NBH9-42	359	98310	3.0	6.25512	2.2	0.36632	1.0	0.45	2012.1	17.3	2012.2	19.4	2012.3	35.1	2012.3	35.1
NBH9-71	196	44648	2.2	6.29841	3.1	0.36630	2.4	0.79	2012.0	41.7	2018.2	26.9	2024.6	33.7	2024.6	33.7
NBH9-49	415	66169	1.4	6.46967	3.3	0.37546	2.2	0.67	2055.0	38.8	2041.8	29.1	2028.4	43.7	2028.4	43.7
NBH9-66	403	87502	4.1	6.23151	2.6	0.35868	1.9	0.73	1975.9	32.4	2008.9	22.7	2042.9	31.1	2042.9	31.1
NBH9-2	363	61414	1.4	6.51193	2.2	0.37382	1.6	0.72	2047.3	27.5	2047.5	19.0	2047.7	26.3	2047.7	26.3
NBH9-22	187	63358	2.3	6.49724	2.9	0.37297	1.0	0.34	2043.3	17.5	2045.5	25.6	2047.7	48.2	2047.7	48.2
NBH9-83	1161	225601	6.7	6.19070	3.5	0.35523	1.2	0.34	1959.5	19.8	2003.1	30.2	2048.4	57.4	2048.4	57.4
NBH9-25	190	81457	3.5	6.67363	3.5	0.38200	2.1	0.62	2085.6	38.3	2069.1	30.8	2052.8	48.4	2052.8	48.4
NBH9-18	35	11952	0.7	6.99157	3.2	0.39196	2.0	0.62	2131.9	36.2	2110.4	28.7	2089.4	44.8	2089.4	44.8
NBH9-30	91	25608	0.9	6.87533	3.1	0.38534	2.4	0.77	2101.2	42.3	2095.5	27.3	2089.9	34.8	2089.9	34.8
NBH9-14	104	29600	0.8	6.87031	4.2	0.38297	2.9	0.69	2090.2	51.8	2094.8	37.1	2099.4	52.9	2099.4	52.9
NBH9-82	448	78160	1.1	7.31655	2.5	0.39554	2.2	0.89	2148.5	40.3	2150.8	22.0	2153.1	19.4	2153.1	19.4
NBH9-58	338	83756	1.4	7.37334	2.2	0.39762	1.1	0.51	2158.1	20.6	2157.7	19.7	2157.4	33.0	2157.4	33.0
NBH9-34	702	130816	4.3	7.41033	3.1	0.39840	2.4	0.77	2161.7	43.2	2162.2	27.3	2162.7	34.0	2162.7	34.0
NBH9-24	510	127803	2.3	7.55490	4.7	0.40142	2.2	0.47	2175.6	40.5	2179.5	42.1	2183.3	72.2	2183.3	72.2
NBH9-87	180	49112	1.0	7.72213	2.8	0.41010	1.3	0.48	2215.4	25.2	2199.2	25.0	2184.1	42.3	2184.1	42.3
NBH9-100	88	34490	1.1	8.42269	2.8	0.42610	1.7	0.60	2288.1	31.8	2277.6	25.1	2268.2	38.3	2268.2	38.3
NBH9-94	564	38644	1.1	8.47574	3.2	0.42847	2.6	0.81	2298.8	49.9	2283.3	28.8	2269.5	31.7	2269.5	31.7
NBH9-44	203	52521	1.3	8.76291	2.5	0.43196	1.8	0.71	2314.5	34.1	2313.6	22.5	2312.8	29.9	2312.8	29.9
NBH9-29	157	37971	0.5	8.35308	3.6	0.41166	2.7	0.73	2222.5	50.2	2270.1	33.0	2313.2	42.6	2313.2	42.6
NBH9-41	1179	160044	1.3	8.65368	4.1	0.41638	3.7	0.90	2244.0	70.8	2302.2	37.8	2354.3	30.9	2354.3	30.9
NBH9-85	627	36579	1.6	7.29994	4.9	0.34738	4.2	0.85	1922.1	69.6	2148.8	43.9	2373.1	43.8	2373.1	43.8
NBH9-37	479	96213	1.2	9.20480	9.6	0.43523	8.1	0.85	2329.2	158.8	2358.6	88.1	2384.1	87.3	2384.1	87.3
NBH9-96A	787	219142	13.7	9.94484	2.8	0.45672	1.2	0.42	2425.0	24.3	2429.7	26.2	2433.6	43.6	2433.6	43.6
NBH9-67	105	25494	1.6	10.53264	5.8	0.47114	5.6	0.96	2488.6	115.3	2482.8	53.9	2478.1	27.2	2478.1	27.2
NBH9-48	668	138647	0.5	10.90562	3.2	0.48173	1.7	0.55	2534.8	36.1	2515.1	29.4	2499.2	44.6	2499.2	44.6
NBH9-53	423	84521	0.9	10.82004	3.9	0.4774										

NBH18-59	651	37339	1.1	0.68350	4.1	0.08507	2.2	0.54	526.3	11.2	528.9	17.1	540.0	76.4	526.3	11.2
NBH18-2	593	35211	1.0	0.66129	3.8	0.08512	2.5	0.66	526.6	12.8	515.4	15.5	465.9	64.0	526.6	12.8
NBH18-22	249	22022	0.8	0.70464	2.9	0.08670	1.0	0.35	536.0	5.1	541.6	12.1	565.0	58.7	536.0	5.1
NBH18-75	401	32900	0.9	0.71368	2.0	0.08690	1.6	0.82	537.2	8.5	546.9	8.5	587.8	24.9	537.2	8.5
NBH18-1	163	10057	0.5	0.72318	4.1	0.08989	2.5	0.60	554.9	13.0	552.5	17.3	543.0	70.9	554.9	13.0
NBH18-82	102	6077	3.8	0.85162	2.6	0.09702	1.1	0.41	596.9	6.1	625.5	12.1	730.5	49.9	596.9	6.1
NBH18-47	549	39353	1.3	0.84077	4.1	0.10167	2.3	0.57	624.2	13.9	619.6	19.0	602.8	72.8	624.2	13.9
NBH18-60	907	8989	6.4	1.12941	6.5	0.10887	4.6	0.71	666.2	29.1	767.5	34.9	1074.9	91.5	666.2	29.1
NBH18-68	310	34292	4.1	1.11020	3.2	0.11929	2.3	0.72	726.5	15.8	758.3	17.0	853.1	46.1	726.5	15.8
NBH18-72	82	7882	0.3	1.17662	2.8	0.13010	2.2	0.80	788.4	16.3	789.7	15.1	793.4	34.8	788.4	16.3
NBH18-26	1116	96964	9.4	1.25519	2.3	0.13426	1.0	0.44	812.1	7.6	825.7	12.7	862.6	41.9	812.1	7.6
NBH18-66	505	47278	1.5	1.29351	3.5	0.13670	1.3	0.37	826.0	10.0	842.9	19.9	887.6	66.6	826.0	10.0
NBH18-94	275	40737	7.8	1.44596	2.1	0.15176	1.2	0.57	910.8	10.0	908.2	12.4	901.7	34.9	901.7	34.9
NBH18-18	788	98197	4.7	1.50491	3.7	0.15584	2.6	0.71	933.6	23.0	932.4	22.8	929.4	54.4	929.4	54.4
NBH18-52	400	50088	5.2	1.56619	2.5	0.16050	1.7	0.69	959.6	15.1	956.9	15.3	950.8	36.9	950.8	36.9
NBH18-12	755	96996	4.9	1.61574	3.0	0.16484	1.2	0.40	983.6	11.0	976.3	18.7	960.0	55.6	960.0	55.6
NBH18-28	951	45243	6.2	1.56471	3.6	0.15899	2.0	0.56	951.2	17.8	956.3	22.2	968.2	60.7	968.2	60.7
NBH18-86	450	21512	1.7	1.57406	2.3	0.15963	1.0	0.43	954.7	8.9	960.0	14.4	972.2	42.8	972.2	42.8
NBH18-57	409	52383	3.8	1.51226	4.3	0.15217	3.0	0.70	913.1	25.2	935.4	26.0	988.1	62.1	988.1	62.1
NBH18-20	386	39216	1.9	1.65159	3.0	0.16618	1.0	0.33	991.0	9.2	990.2	19.0	988.3	57.6	988.3	57.6
NBH18-63	520	53668	5.1	1.58867	3.1	0.15825	1.1	0.36	947.1	9.8	965.8	19.5	1008.6	59.3	1008.6	59.3
NBH18-81	125	15737	0.7	1.66129	3.9	0.16496	3.6	0.93	984.3	33.1	993.9	24.9	1015.0	30.1	1015.0	30.1
NBH18-76	184	15058	0.9	1.62512	2.9	0.16065	1.8	0.64	960.4	16.3	980.0	18.0	1024.1	44.8	1024.1	44.8
NBH18-85	132	8867	0.5	1.36470	2.3	0.13472	1.6	0.68	814.7	12.0	873.9	13.6	1027.0	34.3	1027.0	34.3
NBH18-93	115	11895	0.3	1.81766	2.5	0.17727	1.9	0.75	1052.0	18.2	1051.9	16.3	1051.7	33.0	1051.7	33.0
NBH18-90	309	35250	1.1	1.73270	2.9	0.16880	2.3	0.80	1005.5	21.8	1020.8	18.8	1053.6	35.3	1053.6	35.3
NBH18-7	204	28132	1.1	1.95585	3.6	0.18924	1.0	0.28	1117.3	10.3	1100.5	24.3	1067.4	69.8	1067.4	69.8
NBH18-95	96	3364	0.9	1.59724	1.8	0.15440	1.3	0.73	925.6	11.4	969.1	11.3	1069.3	24.9	1069.3	24.9
NBH18-64	169	23932	1.0	1.79166	4.0	0.17314	1.6	0.40	1029.4	15.4	1042.4	26.2	1069.8	74.1	1069.8	74.1
NBH18-58	775	82414	1.4	1.84492	4.5	0.17743	2.4	0.55	1052.9	23.7	1061.6	29.4	1079.5	75.1	1079.5	75.1
NBH18-69	104	11769	0.8	1.68326	2.3	0.16092	1.6	0.67	961.9	13.9	1002.2	14.8	1091.4	34.5	1091.4	34.5
NBH18-87	548	74058	10.4	1.96224	3.1	0.18748	1.5	0.49	1107.7	15.5	1102.7	21.0	1092.7	54.7	1092.7	54.7
NBH18-39	1322	101362	5.1	1.82640	3.2	0.17361	2.7	0.85	1032.0	25.7	1055.0	20.9	1102.9	34.0	1102.9	34.0
NBH18-54	596	72387	1.8	1.87549	3.9	0.17771	1.0	0.26	1054.4	9.7	1072.5	25.9	1109.3	75.5	1109.3	75.5
NBH18-17	451	60073	3.0	1.96800	4.1	0.18562	3.6	0.88	1097.6	36.6	1104.6	27.6	1118.5	38.5	1118.5	38.5
NBH18-16	658	66379	5.6	1.99374	4.0	0.18768	1.2	0.29	1108.8	12.1	1113.4	27.2	1122.3	76.6	1122.3	76.6
NBH18-36	138	18354	0.9	2.08768	3.4	0.19581	2.3	0.69	1152.8	24.8	1144.8	23.4	1129.6	49.1	1129.6	49.1
NBH18-65	242	45762	1.4	1.93043	3.8	0.18068	2.8	0.73	1070.7	27.3	1091.7	25.2	1133.7	51.0	1133.7	51.0
NBH18-37	449	50667	1.3	1.91019	4.8	0.17848	4.4	0.92	1058.6	42.6	1084.7	31.8	1137.3	38.2	1137.3	38.2
NBH18-32	271	43449	1.0	2.11725	1.4	0.19640	1.0	0.71	1155.9	10.6	1154.4	9.8	1151.6	19.9	1151.6	19.9
NBH18-34	188	26425	1.7	2.11378	2.5	0.19570	1.0	0.41	1152.2	10.6	1153.3	16.9	1155.4	44.5	1155.4	44.5
NBH18-88	40	5858	0.8	2.12033	3.1	0.19600	2.2	0.71	1153.8	23.5	1155.4	21.5	1158.5	43.3	1158.5	43.3
NBH18-38	455	40660	2.2	2.10613	2.3	0.19223	1.4	0.62	1133.5	14.7	1150.8	15.7	1183.6	35.5	1183.6	35.5
NBH18-55	134	21924	0.7	2.10169	3.2	0.19166	1.0	0.31	1130.4	10.4	1149.4	21.9	1185.4	59.6	1185.4	59.6
NBH18-30	526	54080	1.1	2.25392	3.3	0.20349	2.4	0.74	1194.0	26.3	1198.0	23.0	1205.2	43.6	1205.2	43.6
NBH18-29	207	28537	2.6	2.45850	2.2	0.21324	1.4	0.62	1246.0	15.8	1259.9	16.2	1283.7	34.3	1283.7	34.3
NBH18-99	763	105505	1.6	2.40396	2.2	0.20806	1.3	0.58	1218.5	14.5	1243.8	16.1	1287.9	35.4	1287.9	35.4
NBH18-49	3492	6487	8.6	1.06005	4.2	0.09155	3.4	0.81	564.7	18.4	733.8	22.0	1292.1	48.1	1292.1	48.1
NBH18-70	433	10137	0.7	2.30628	6.8	0.19863	3.4	0.50	1168.0	36.1	1214.2	47.9	1297.4	113.8	1297.4	113.8
NBH18-19	438	60861	3.5	2.20349	4.7	0.18734	2.8	0.60	1107.0	28.9	1182.2	30.0	1322.5	73.1	1322.5	73.1
NBH18-77	645	109770	1.5	2.80914	2.4	0.23446	1.0	0.42	1357.8	12.2	1358.0	17.9	1358.2	41.8	1358.2	41.8
NBH18-40	1079	96046	1.9	2.73529	2.9	0.22742	1.8	0.62	1321.0	21.4	1338.1	21.4	1365.6	43.5	1365.6	43.5
NBH18-5	588	81398	2.0	2.79538	2.9	0.23198	2.2	0.74	1344.9	26.6	1354.3	22.0	1369.2	37.9	1369.2	37.9
NBH18-43	407	56226	1.6	2.87741	2.5	0.23749	1.0	0.42	1373.6	12.8	1376.0	18.7	1379.7	43.3	1379.7	43.3
NBH18-71	238	53062	1.7	2.83023	2.6	0.23066	1.6	0.59	1338.0	18.8	1363.6	19.9	1404.0	41.0	1404.0	41.0
NBH18-98	373	73714	1.6	2.82488	2.9	0.22969	1.8	0.62	1332.9	21.6	1362.2	21.8	1408.4	43.8	1408.4	43.8
NBH18-23	474	63858	1.6	2.64267	4.6	0.21411	1.4	0.31	1250.7	16.2	1312.6	33.9	1415.2	83.6	1415.2	83.6
NBH18-92	480	59879	1.0	3.21672	2.9	0.24334	2.3	0.77	1404.0	28.5	1461.2	22.8	1545.3	35.5	1545.3	35.5
NBH18-10	92	15465	1.1	3.80923	2.6	0.27836	1.8	0.66	1583.1	24.6	1594.7	21.3	1610.1	36.8	1610.1	36.8
NBH18-74	534	110378	0.8	4.44611	3.7	0.31120	1.8	0.48	1746.6	27.1	1721.0	30.7	1689.9	60.0	1689.9	60.0
NBH18-25	515	93398	3.7	4.19149	3.8	0.29287	2.1	0.54	1655.8	30.1	1672.4	31.4	1693.1	59.4	1693.1	59.4
NBH18-97	211	50670	1.4	4.30928	3.0	0.29959	2.1	0.70	1689.3	31.6	1695.1	25.0	1702.4	40.0	1702.4	40.0
NBH18-83	351	52280	1.8	3.96335	3.5	0.27520	3.1	0.88	1567.1	43.2	1626.7	28.6	1704.7	30.6	1704.7	30.6
NBH18-15	658	127501	1.8	4.42046	2.1	0.30661	1.6	0.76	1724.0	24.6	1716.2	17.6	1706.6	25.2	1706.6	25.2
NBH18-31	198	38372	1.3	3.94591	2.1	0.27212	1.5	0.71	1551.6	20.7	1623.2	17.0	1717.2	27.0	1717.2	27.0
NBH18-48	876	136731	1.8	4.31182	4.0	0.29524	3.4	0.85	1667.7	49.4	1695.6	32.6	1730.3	38.2	1730.3	38.2
NBH18-4	155	34401	1.2	4.49181	2.3	0.30714	1.0	0.44	1726.6	15.1	1729.5	18.8	1732.9	37.3	1732.9	37.3
NBH18-62	1296	131241	1.2	4.33499	3.3	0.29612	2.0	0.62	1672.1	30.1	1700.0	27.2	1734.7	47.3	1734.7	47.3
NBH18-11	192	50389	1.6	4.53840	2.5	0.30922	1.6	0.66	1736.9	24.8	1738.0	20.5	1739.4	33.9	1739.4	33.9
NBH18-42	120	24373	1.4	4.53787	2.5	0.30901	1.5	0.61	1735.8	22.6	1737.9	20.4	1740.5	35.8	1740.5	35.8
NBH18-24	243	47042	1.2	4.42227	4.2	0.30028	1.4	0.34	1692.7	21.5	1716.5	35.0	1745.7	72.7	1745.7	72.7
NBH18-8	1080	128560	12.3	4.45621	2.4	0.30227	1.0	0.42	1702.6	15.0	1722.9	20.1	1747.6	40.3	1747.6	40.3
NBH18-96	294	73198	2.4	5.35309	3.8	0.33680	1.7	0.45	1871.3	28.0	1877.4	32.7	1884.2			

BU071-42	1411	235950	6.0	1.5622	1.8	0.1578	1.3	0.70	944.4	11.3	955.3	11.3	980.6	26.5	944.4	11.3
BU071-22	376	91965	3.3	1.5758	2.7	0.1589	2.1	0.77	950.8	18.2	960.7	16.5	983.4	34.2	950.8	18.2
BU071-84	550	123700	3.3	1.5581	2.6	0.1590	1.0	0.40	951.0	9.1	953.7	15.9	960.1	48.2	951.0	9.1
BU071-70	652	146390	4.8	1.5509	1.6	0.1591	1.0	0.61	951.5	8.8	950.8	10.1	949.2	26.6	951.5	8.8
BU071-24	255	106080	2.4	1.5690	2.1	0.1597	1.5	0.72	954.9	13.7	958.0	13.2	965.1	30.2	954.9	13.7
BU071-68	659	143420	1.3	1.5906	2.0	0.1618	1.8	0.87	966.6	15.7	966.5	12.6	966.4	20.4	966.6	15.7
BU071-9	374	53410	1.7	1.6140	1.8	0.1635	1.5	0.82	976.1	13.2	975.6	11.1	974.6	20.4	974.6	20.4
BU071-52	404	98695	1.7	1.6843	2.6	0.1704	1.6	0.60	1014.3	14.5	1002.6	16.5	977.1	42.2	977.1	42.2
BU071-11	477	106315	3.1	1.6597	2.5	0.1679	2.2	0.88	1000.6	20.1	993.3	15.7	977.2	24.1	977.2	24.1
BU071-53	644	161420	2.2	1.6085	2.8	0.1627	1.8	0.62	971.9	15.8	973.5	17.8	977.3	45.7	977.3	45.7
BU071-41	543	84565	2.2	1.6276	1.5	0.1645	1.0	0.65	981.9	9.1	980.9	9.7	978.7	23.8	978.7	23.8
BU071-81	239	42305	1.6	1.6510	4.0	0.1665	2.6	0.66	993.0	24.1	989.9	25.2	983.1	61.1	983.1	61.1
BU071-78	524	178005	3.3	1.6120	4.7	0.1620	2.9	0.61	967.7	26.1	974.9	29.7	991.1	76.1	991.1	76.1
BU071-88	676	85235	1.6	1.6261	2.7	0.1629	2.0	0.76	973.0	18.3	980.3	16.8	996.8	35.4	996.8	35.4
BU071-91	239	63315	1.7	1.6577	3.9	0.1659	2.0	0.51	989.4	18.4	992.5	25.0	999.4	68.9	999.4	68.9
BU071-80	287	116650	1.8	1.6567	4.8	0.1657	4.1	0.85	988.5	37.4	992.1	30.5	1000.0	51.8	1000.0	51.8
BU071-49	466	96290	1.4	1.6687	2.0	0.1669	1.0	0.50	995.1	9.2	996.7	12.8	1000.2	35.5	1000.2	35.5
BU071-92	145	35790	0.9	1.7106	4.0	0.1708	3.0	0.76	1016.3	28.4	1012.5	25.3	1004.3	51.8	1004.3	51.8
BU071-97	382	61895	3.4	1.5674	2.5	0.1564	1.0	0.40	937.0	8.7	957.4	15.6	1004.5	46.7	1004.5	46.7
BU071-8	409	84315	2.0	1.6588	2.1	0.1654	1.9	0.88	986.9	17.2	992.9	13.5	1006.2	20.3	1006.2	20.3
BU071-66	442	107040	3.0	1.6572	1.4	0.1648	1.0	0.71	983.4	9.1	992.3	9.0	1012.1	20.3	1012.1	20.3
BU071-77	201	57565	1.6	1.6577	4.8	0.1647	2.4	0.51	982.6	22.2	992.5	30.2	1014.5	83.1	1014.5	83.1
BU071-34	372	61095	1.4	1.6251	2.9	0.1601	1.3	0.44	957.3	11.1	979.9	18.0	1030.9	52.2	1030.9	52.2
BU071-51	323	60340	1.2	1.7450	3.4	0.1713	1.9	0.55	1019.0	17.5	1025.3	21.6	1038.8	56.3	1038.8	56.3
BU071-29	363	98145	3.0	1.6813	3.6	0.1650	1.0	0.28	984.4	9.1	1001.5	22.6	1039.1	68.9	1039.1	68.9
BU071-39	584	227360	3.6	1.9028	3.3	0.1820	1.5	0.46	1078.1	15.1	1082.1	22.1	1089.9	59.1	1089.9	59.1
BU071-38	398	144070	3.7	2.1588	1.9	0.1974	1.2	0.61	1161.1	12.3	1167.9	13.3	1180.4	30.1	1180.4	30.1
BU071-74	124	32990	0.6	2.2973	3.2	0.2058	1.9	0.59	1206.3	20.7	1211.4	22.6	1220.7	50.7	1220.7	50.7
BU071-19	666	99490	2.3	1.9828	3.0	0.1738	2.1	0.71	1033.2	20.3	1109.7	20.2	1262.6	41.2	1262.6	41.2
BU071-35	111	57760	1.9	2.9496	13.5	0.2412	1.3	0.10	1393.0	16.8	1394.7	102.4	1397.4	257.9	1397.4	257.9
BU071-98	677	240185	1.2	3.0933	3.8	0.2509	1.7	0.45	1443.1	22.2	1431.0	29.4	1413.1	65.4	1413.1	65.4
BU071-47	406	42780	1.5	2.8179	3.6	0.2194	3.1	0.86	1278.9	36.2	1360.3	27.2	1490.6	35.1	1490.6	35.1
BU071-85	54	22415	0.7	3.5261	3.4	0.2710	2.3	0.66	1546.0	30.9	1533.1	26.8	1515.3	47.8	1515.3	47.8
BU071-72	222	84925	1.0	3.7531	2.2	0.2806	1.5	0.69	1594.3	21.5	1582.8	17.6	1567.4	29.8	1567.4	29.8
BU071-17	181	46830	0.4	3.5296	1.9	0.2822	1.0	0.54	1501.1	13.4	1533.9	14.7	1579.3	29.2	1579.3	29.2
BU071-64	611	179955	3.8	3.5205	1.5	0.2804	1.0	0.67	1492.0	13.3	1531.8	11.9	1587.3	20.9	1587.3	20.9
BU071-16	857	287235	5.2	3.7133	2.9	0.2738	2.1	0.72	1560.1	28.7	1574.2	22.9	1593.2	36.8	1593.2	36.8
BU071-90	820	34370	0.9	2.8875	7.6	0.2108	7.2	0.95	1233.2	80.8	1378.6	57.1	1611.6	42.9	1611.6	42.9
BU071-67	662	206265	1.4	3.7098	1.4	0.2706	1.0	0.71	1543.8	13.7	1573.5	11.3	1613.5	18.6	1613.5	18.6
BU071-96	301	249655	1.9	3.9183	3.8	0.2843	1.8	0.47	1613.1	25.5	1617.5	30.9	1623.2	62.7	1623.2	62.7
BU071-71	428	141290	0.8	3.9268	2.8	0.2848	2.5	0.91	1615.7	35.9	1619.2	22.4	1623.8	21.8	1623.8	21.8
BU071-73	353	108135	0.6	4.0764	1.7	0.2923	1.3	0.75	1653.1	18.5	1649.6	13.8	1645.2	20.8	1645.2	20.8
BU071-100	263	85650	1.8	3.9607	2.2	0.2762	1.9	0.87	1572.3	26.9	1626.2	17.9	1696.6	19.9	1696.6	19.9
BU071-89	861	202745	1.4	4.3226	3.2	0.3010	3.0	0.93	1696.1	44.4	1697.7	26.4	1699.6	21.7	1699.6	21.7
BU071-58	424	143875	1.4	4.2048	2.0	0.2901	1.3	0.66	1641.9	19.3	1675.0	16.5	1716.6	27.8	1716.6	27.8
BU071-40	383	135470	2.2	4.2061	2.3	0.2900	2.0	0.86	1641.6	28.7	1675.2	19.0	1717.6	21.9	1717.6	21.9
BU071-62	350	148910	1.1	4.2893	1.4	0.2951	1.0	0.71	1667.0	14.7	1691.3	11.6	1721.6	18.4	1721.6	18.4
BU071-36	1496	89460	17.3	3.6882	3.0	0.2516	1.6	0.54	1446.8	20.9	1568.8	23.7	1737.0	45.7	1737.0	45.7
BU071-56	594	136115	1.5	4.0622	2.1	0.2736	1.6	0.77	1558.8	22.2	1646.7	16.9	1760.9	24.0	1760.9	24.0
BU071-87	358	143545	0.7	4.9069	2.1	0.3229	1.3	0.59	1803.9	19.7	1803.4	17.8	1802.9	30.9	1802.9	30.9
BU071-76	83	64875	1.2	5.1263	4.3	0.3338	2.5	0.59	1856.6	40.3	1840.5	36.2	1822.3	62.6	1822.3	62.6
BU071-54	229	75020	0.9	4.6273	4.7	0.2961	3.7	0.79	1672.1	54.1	1754.2	39.0	1853.4	52.2	1853.4	52.2
BU071-99	428	149105	4.3	4.7591	2.0	0.3041	1.5	0.74	1711.6	22.4	1777.7	16.9	1856.2	24.4	1856.2	24.4
BU071-33	277	157610	3.5	5.1122	4.6	0.3224	1.7	0.36	1801.2	26.6	1838.1	39.4	1880.2	77.9	1880.2	77.9
BU071-83	229	102170	1.5	5.5672	3.2	0.3498	1.0	0.31	1933.8	16.7	1911.0	27.4	1886.4	54.4	1886.4	54.4
BU071-3	300	84360	3.2	4.5424	2.7	0.2849	2.5	0.93	1616.1	36.0	1738.8	22.6	1889.6	18.0	1889.6	18.0
BU071-43	109	25920	1.1	5.0784	5.7	0.3183	3.9	0.68	1781.3	60.5	1832.5	48.8	1891.2	76.2	1891.2	76.2
BU071-7	1016	272700	1.8	4.6932	2.3	0.2844	1.5	0.67	1613.4	22.0	1766.0	19.2	1951.6	30.4	1951.6	30.4
BU071-94	201	98495	0.7	6.6869	3.2	0.3781	1.1	0.35	2067.4	19.8	2070.9	28.4	2074.4	53.0	2074.4	53.0
BU071-18	203	95200	0.5	6.9538	2.2	0.3865	1.0	0.46	2106.7	18.2	2105.6	19.6	2104.4	34.4	2104.4	34.4
BU071-26	74	74155	0.9	7.6095	5.6	0.4129	1.1	0.19	2228.1	20.5	2186.0	50.7	2146.7	96.9	2146.7	96.9
BU071-79	496	149550	3.2	5.6411	4.7	0.2904	2.0	0.41	1643.3	28.4	1922.4	40.9	2238.3	74.8	2238.3	74.8
BU071-12	683	111825	0.9	6.9588	2.2	0.3318	1.0	0.48	1847.1	16.5	2106.2	19.1	2369.8	32.2	2369.8	32.2
BU071-69	1909	408530	2.3	7.9971	2.8	0.3713	2.6	0.92	2035.7	45.2	2230.7	25.3	2414.8	18.3	2414.8	18.3
BU071-93	336	130145	0.9	9.1960	3.5	0.4252	1.7	0.48	2284.0	31.7	2357.7	31.7	2422.1	51.6	2422.1	51.6
BU071-82	101	67805	0.5	9.9789	2.2	0.4603	1.0	0.45	2440.7	20.3	2432.8	20.7	2426.3	34.1	2426.3	34.1
BU071-32	22	15920	0.8	10.0220	3.7	0.4585	2.2	0.58	2432.9	44.2	2436.8	34.6	2440.0	51.7	2440.0	51.7
BU071-60	62	21620	0.6	9.7744	2.3	0.4461	1.7	0.74	2378.1	34.0	2413.7	21.2	2443.9	26.1	2443.9	26.1
BU071-6	466	137640	1.5	8.8574	2.4	0.4017	2.2	0.91	2176.7	39.7	2323.4	21.6	2455.0	16.9	2455.0	16.9
BU071-37	231	64110	1.7	8.4506	3.6	0.3817	2.6	0.71	2084.4	45.4	2280.6	32.6	2461.5	42.8	2461.5	42.8
BU071-2	138	55680	1.4	7.7782	5.1	0.3497	5.0	0.97	1933.2	82.9	2205.7	46.2	2469.4	22.1	2469.4	22.1
BU071-59	1115	353585	3.0	9.1415	3.1	0.4094	1.7	0.55	2212.0	31.5	2352.3	28.0	2476.3	43.0	2476.3	43.0
BU071-57	53	32190	0.6	10.5206	1.6	0.4710	1.3	0.78	2487.9	26.0	2481.7	14.9	2476.7	16.9	2476	





## Sm–Nd ISOTOPIC ANALYSIS PROCEDURE

Dissolution of whole rock spiked samples for isotopic analyses was performed in bombs using HF-HNO<sub>3</sub> (on hot plates) followed by a secondary dissolution step in HF-HClO<sub>3</sub> mixtures (in screw cap Savillex vials). The samples were then redissolved in 1 N HCl. Samples were spiked with mixed <sup>147</sup>Sm-<sup>150</sup>Nd tracers previously described by Wasserburg et al. (1981). Separation of the bulk of the REE was achieved via HCl elution in cation columns. Separation of Sm and Nd was carried out using an LNSpec<sup>®</sup> resin (Ducea et al., 2003). The highest procedural blanks measured during the course of this study were 5 pg Sm and 18 pg Nd.

Sm and Nd isotopic ratios were measured using an IsoProbe (GV Instruments) multi-collector inductively coupled plasma mass spectrometer at the University of Arizona. Samples were introduced in the mass spectrometer in 1% nitric solutions. We used a low flow (~ 100 µl/min) nebulizer from Elemental Scientific Inc.

Neodymium analyses on the IsoProbe MC-ICPMS consist of 90 5-sec. integrations (7.5 minutes total). Each analysis consumes a little over 1 ml of solution.

The detector array configuration is:

AX = <sup>142</sup>Nd

H1 = <sup>143</sup>Nd

H2 = <sup>144</sup>Nd

H3 = <sup>145</sup>Nd

H4 = <sup>146</sup>Nd

H5 = <sup>147</sup>Sm (to monitor for contamination)

H6 = <sup>150</sup>Nd

During the course of an analysis period, samples were interspersed with standards to monitor signal drift and external reproducibility. After starting off with five analyses of our standard (La Jolla, see Wasserburg et al., 1981), we alternated 3 standards-3 unknowns-3 standards etc. If there is significant drift, clusters of unknowns were corrected for mass bias using only the standard clusters on either side. It was important in using the external reproducibility of the standard to determine the error on individual analyses to use a standard solution that is roughly equal in concentration to the sample

being analyzed. All unknown samples were tested for signal strength prior to being analyzed so samples of similar concentration can be run together with the appropriate standard solutions.

Neodymium data was reduced using an internal off-line program similar to procedures detailed in Lapen et al., (2004). The procedures correct for the non-exponential mass-bias in the ICPMS. The program adjusts for the spike contributions to both the fractionation correction and each ratio, and performs isotope dilution calculations.

Samarium analyses on the Isoprobe MC-ICPMS consist of 45 5-sec. integrations (4.5 minutes total). Each analysis consumes a little over 1 ml of solution. The detector array configuration is:

AX =  $^{143}\text{Nd}$  (to monitor for contamination)

H1 =  $^{144}\text{Sm}$

H2 =  $^{147}\text{Sm}$

H3 =  $^{148}\text{Sm}$

H4 =  $^{149}\text{Sm}$

H5 =  $^{150}\text{Sm}$

H6 =  $^{152}\text{Sm}$

H7 =  $^{154}\text{Sm}$

As with Nd, during the course of an analysis period samples were interspersed with standards to monitor signal drift and external reproducibility. If there was significant drift, clusters of unknowns were corrected for mass bias using only the standard clusters on either side. As with Nd, it is important in using the external reproducibility of the standard to determine the error on individual analyses to use a standard solution that is roughly equal in concentration to the sample being analyzed. Samarium data was reduced with an internal off-line program using the factor correction method described in Lapen et al. (2004).

The mean results of several tens of analyses of the standard nSm $\beta$  performed during the course of this study are:  $^{148}\text{Sm}/^{147}\text{Sm} = 0.74880 \pm 21$ , and measurements of the LaJolla Nd standard yielded results within the accepted range of LaJolla  $^{143}\text{Nd}/^{144}\text{Nd}$

(mean  $^{143}\text{Nd}/^{144}\text{Nd} = 0.5118490 \pm 23$ ). The Nd isotopic ratios were normalized to  $^{146}\text{Nd}/^{144}\text{Nd} = 0.7219$ . Estimated analytical  $\pm 2\sigma$  uncertainties are:  $^{147}\text{Sm}/^{144}\text{Nd} = 0.8\%$ , and  $^{143}\text{Nd}/^{144}\text{Nd} = 0.002\%$ . External reproducibility, based on the range of multiple runs of standard LaJolla Nd is estimated to be  $\pm 0.00001$ .

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