

ASX Announcement (ASX:AXE)

7 June 2017

Blue Hills drilling returns +20 metres of copper from surface

Highlights

- Significant copper intersected around and below old copper workings.
 - 23m @ 0.3% and 12m @ 0.5% copper intersected from surface.
 - Deeper RC drill holes terminated in mineralisation, indicating mineralisation extends at depth.
 - Additional assay results due next 1-2 weeks.
 - Ground based EM surveys planned to define the potential scale of the mineralisation prior to further drilling.
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Archer Exploration Ltd (ASX:AXE, Archer, Company) is pleased to report that recent reconnaissance reverse circulation (RC) drilling has intersected significant intervals of copper mineralisation at the Blue Hills Project, part of the Company's 100% owned North Burra Project in South Australia.

The recent RC drilling campaign at Blue Hills, comprising 16 holes, was designed to test for copper mineralisation along strike and below historic copper workings which have never been drill tested by modern explorers.

The drilling has been successful in intersecting copper within the oxide zone. In addition, several RC drill holes toward the end of the campaign (not the subject of this announcement) encountered **visual copper mineralisation** including malachite and chalcopyrite.

The most significant intersections include:

- BHRC 1701 **23m @ 0.3% Cu** from surface.
- BHRC 1704 **12m @ 0.5% Cu** from surface

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While exploration is still at an early stage at Blue Hills, the directors of Archer are very encouraged by these results given the length of the intervals of copper intersected.

The drilling at Blue Hills took place immediately after completion of the drilling at Ketchowla. A total of 16 holes for 435 m were drilled at Blue Hills in May 2017. Five failed collars occurred as a result of the drilling equipment used at Ketchowla not being suitable for Blue Hills. The problem was resolved by removing part of the back reamer on the hammer.

Chalcopyrite is observed in all intervals that report >100ppm Cu (see Annexure 1 for assays). The considerable width of mineralisation (>40m) coupled with strong ground preparation (silica flooding) indicate the potential for an economic discovery.

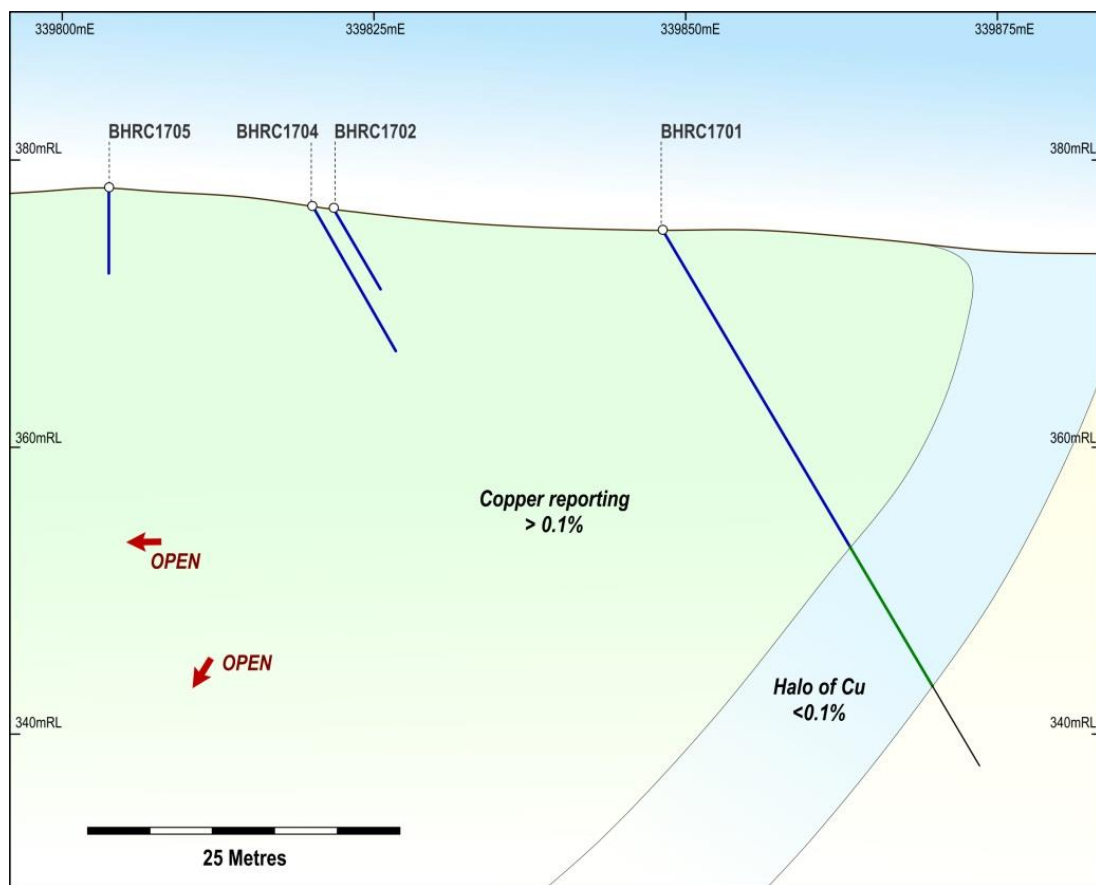


Figure 1: Cross-section showing copper mineralisation is open at depth and to the east.

Along strike to the North East of the drilled area is another copper occurrence (not yet visited), providing an indication of the scale of possible mineralisation. The presence of the chalcopyrite and the way it has been emplaced provide support for an igneous source which is not evident at the surface.

It is this source and associated mineralisation that will be the focus for future exploration at Blue Hills Copper.

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Results from the remaining drill holes are due in the next 1-2 weeks and will be reported to market as soon as they come to hand. Geological logging of several of these holes has returned visually encouraging results, including the presence of malachite and chalcopyrite.

Blue Hills is located approximately 45km northwest of the township of Burra and 30km south of the trans-Australia railway line. Blue Hills is part of the larger North Burra project area where Archer has discovered a large manganese and cobalt deposit at Ketchowla (5km south of Blue Hills).

The discovery of significant copper mineralisation at Blue Hills represents a potentially significant new development for Archer and the region.

In order to assist in planning the next stage of exploration, Archer has commenced the re-processing of available geophysics data at Blue Hills. A ground based electro-magnetic (EM) survey will also be undertaken to further define the potential size of the mineralized zone and to assist with ongoing drill targeting.

The above work program will be followed by a more targeted drilling program based on the results of the EM surveys.

Archer will re-evaluate the broader potential of the North Burra Project area after reviewing the results of the EM survey and the receipt of outstanding assays results from Blue Hills and Ketchowla.

The Company looks forward to progressively releasing further results as they come to hand.

For further information, please contact:

Mr Greg English
Chairman
Archer Exploration Limited
Tel: (08) 8272 3288

Mr Cary Helenius
Investor Relations
Market Eye
Tel: 03 9591 8906

Competent Person Statement

The information in this report that relates to Exploration Results is based on information compiled by Mr Wade Bollenhagen, a Competent Person who is a Member of the Australasian Institute of Mining and Metallurgy and is a full-time employee of Archer Exploration Limited. Mr Bollenhagen has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr. Bollenhagen consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

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JORC Code, 2012 Edition – Table 1

Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code Explanation	Commentary
Sampling Techniques	<ul style="list-style-type: none"> Nature and quality of sampling (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as downhole gamma sondes, or handheld XRF instruments, etc.). These examples should not be taken as limiting the broad meaning of sampling. Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (e.g. 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases, more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information. 	<ul style="list-style-type: none"> Samples comprise that were submitted due to alteration and proximity to alteration observed by the geologist during geological interpretation. Sampling was guided by Archer's protocols as the program was exploratory in nature. No standards were submitted by the company during analyses. All samples were sent to ALS laboratory in Adelaide for preparation and forwarded to Peth for multi-element analyses. All samples are crushed using LM2 mill to -4 mm and pulverised to nominal 80% passing -75 µm.
Drilling Techniques	<ul style="list-style-type: none"> Drill type (e.g. core, reverse circulation, open hole hammer, rotary air blast, auger, Bangka, sonic, etc.) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc.). 	<ul style="list-style-type: none"> The drill type is a Reverse Circulation (RC) with a 4 inch face sampling hammer bit. The samples are collected after passing through a 2 tier splitter attached underneath the rig mounted cyclone. The drill company was E drill.

Criteria	JORC Code Explanation	Commentary
Drill Sample Recovery	<ul style="list-style-type: none"> Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximise sample recovery and ensure representative nature of the samples. Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material. 	<ul style="list-style-type: none"> No assessment of recoveries was documented. All efforts were made to ensure that the sample was representative. No relationship is believed to exist, but no work has been done to confirm this.
Logging	<ul style="list-style-type: none"> Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies. Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography. The total length and percentage of the relevant intersections logged. 	<ul style="list-style-type: none"> All samples were geologically logged, as the hole collars were never accurately surveyed (a hand-held GPS was used) no data can be used for mineral resource estimation. Logging was qualitative and quantitative, i.e. percentages of vein material and host rock were estimated as well as noted.
Sub-Sampling Techniques and Sample Preparation	<ul style="list-style-type: none"> If core, whether cut or sawn and whether quarter, half or all core taken. If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry. For all sample types, the nature, quality and appropriateness of the sample preparation technique. Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. Measures taken to ensure that the sampling is representative of the in-situ material collected, including for instance results for field duplicate/second-half sampling. Whether sample sizes are appropriate to the grain size of the material being sampled. 	<ul style="list-style-type: none"> All drilling was Reverse Circulation (RC), with a face sampling hammer bit. All samples were riffle split on a 2-tiered splitter All sample material was dry. No additional quality control measures were taken for the sample submission. The sample sizes are considered appropriate for the material being sampled.

Criteria	JORC Code Explanation	Commentary
Quality of Assay Data and Laboratory Tests	<ul style="list-style-type: none"> The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. For geophysical tools, spectrometers, handheld XRF instruments, etc., the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc. Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established. 	<ul style="list-style-type: none"> Certified standards were not used in the assessment of the analyses. Analyses was by ALS Perth using their ME-MS61 technique for multi-elements. The laboratory uses their own certified standards during analyses.
Verification of Sampling and Assaying	<ul style="list-style-type: none"> The verification of significant intersections by either independent or alternative company personnel. The use of twinned holes. Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. Discuss any adjustment to assay data. 	<ul style="list-style-type: none"> No verification of sampling, no use of twinned holes. Data is exploratory in nature and exists as excel spread sheets. No data adjustment.
Location of Data Points	<ul style="list-style-type: none"> Accuracy and quality of surveys used to locate drillholes (collar and downhole surveys), trenches, mine workings and other locations used in Mineral Resource estimation. Specification of the grid system used. Quality and adequacy of topographic control. 	<ul style="list-style-type: none"> MGA94 Zone 54 grid coordinate system is used. A hand-held GPS was used to identify the sample location Quality and adequacy is appropriate for this level of exploration
Data Spacing and Distribution	<ul style="list-style-type: none"> Data spacing for reporting of Exploration Results. Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied. Whether sample compositing has been applied. 	<ul style="list-style-type: none"> There is no pattern to the sampling, the spacing is random, the location of the holes was determined by the land surface as no clearing was undertaken for the drill rig so many sites were unsuitable to drill. Some of these may have produced different results to the one being reported. Data spacing and distribution are sufficient to establish the degree of geological and grade continuity for future drill planning, but not for resource reporting.

Criteria	JORC Code Explanation	Commentary
Orientation of Data in Relation to Geological Structure	<ul style="list-style-type: none"> Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material. 	<ul style="list-style-type: none"> It is unknown whether the drill holes have interested the mineralisation in a perpendicular manner. The mineralised horizon is obscured by a veneer of transported material, from observations of the strike of outcrop it was believed that the mineralised structure was being drilled perpendicularly. It is believed there is no bias has been introduced.
Sample Security	<ul style="list-style-type: none"> The measures taken to ensure sample security. 	<ul style="list-style-type: none"> It is assumed that best practices were undertaken at the time All residual sample material (pulp) are stored securely.
Audits or Reviews	<ul style="list-style-type: none"> The results of any audits or reviews of sampling techniques and data. 	<ul style="list-style-type: none"> None undertaken.

Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code Explanation	Commentary
Mineral Tenement and Land Tenure Status	<ul style="list-style-type: none"> Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings. The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area. 	<ul style="list-style-type: none"> Tenement status confirmed on SARIG. All work being reported is from EL 5794 (owned by SA Exploration Pty Ltd, a subsidiary of AXE). The tenement is in good standing with no known impediments.
Exploration Done by Other Parties	<ul style="list-style-type: none"> Acknowledgment and appraisal of exploration by other parties. 	<ul style="list-style-type: none"> No exploration has been undertaken by any other parties
Geology	<ul style="list-style-type: none"> Deposit type, geological setting and style of mineralisation. 	<ul style="list-style-type: none"> The mineralisation style indicates that it was emplaced by fluids (e.g. an intrusive source). The strike appears to be NNE
Drillhole Information	<ul style="list-style-type: none"> A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes: <ul style="list-style-type: none"> Easting and northing of the drill hole collar Elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar Dip and azimuth of the hole Downhole length and interception depth Hole length If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case. 	<p>Refer to announcement to which this document is attached, in particular tables titled:</p> <ul style="list-style-type: none"> “Summary of drill hole information” “Summary of drilling results”

Criteria	JORC Code Explanation	Commentary
Data Aggregation Methods	<ul style="list-style-type: none"> In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated. Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail. The assumptions used for any reporting of metal equivalent values should be clearly stated. 	<ul style="list-style-type: none"> Interval length weighted assay results are reported Significant Intercepts are chosen based on the context of the results, for example significant intercepts > 100ppm copper are reported.
Relationship Between Mineralisation Widths and Intercept Lengths	<ul style="list-style-type: none"> These relationships are particularly important in the reporting of Exploration Results. If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is not known and only the downhole lengths are reported, there should be a clear statement to this effect (e.g. 'downhole length, true width not known'). 	<ul style="list-style-type: none"> All assay intervals are down hole length, the true width not known. The mineralisation is interpreted to be steeply dipping. Drill holes have been angled to intercept the mineralisation as close to perpendicular as possible. Down hole intercepts are reported. True widths are likely to be 60-70% of the down hole widths.
Diagrams	<ul style="list-style-type: none"> Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported. These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views. 	<ul style="list-style-type: none"> See main body of report.
Balanced Reporting	<ul style="list-style-type: none"> Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results. 	<ul style="list-style-type: none"> The reporting is considered to be balanced.
Other Substantive Exploration Data	<ul style="list-style-type: none"> Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances. 	<ul style="list-style-type: none"> Nothing to report at this stage

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Criteria	JORC Code Explanation	Commentary
Further Work	<ul style="list-style-type: none"> The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling). Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive. 	<ul style="list-style-type: none"> Further drilling is required along strike as well as testing for mineralisation under cover. Electro-magnetics will be required to vector areas of greater conductivity and higher mineralisation potential Figures in the body of this report highlight the gaps in the data.

Annexure 1

Summary of drill hole information

The following table provides information on RC drilling results reported elsewhere in this announcement. The drilling was undertaken by Archer Exploration Pty Ltd in May 2017

Hole ID	Easting	Northing	RL (m)	Final Depth (m)	Dip (°)	Azimuth (°)
BHRC1701	339845	6322389	273	43	-60	118
BHRC1702	339824	6322399	283	7	-60	118
BHRC1704	339823	6322400	283	12	-60	130
BHRC1705	339812	6322409	278	6	-90	0
BHRC1706	339866	6322414	288	4	-90	0
BHRC1707	339879	6322404	279	4	-90	0
BHRC1708	339896	6322401	279	11	-90	0
BHRC1709	339872	6322379	278	66	-60	283
BHRC1710	339802	6322371	274	25	-60	118
BHRC1711	339779	6322389	275	55	-60	118
BHRC1712	339749	6322348	275	25	-60	118
BHRC1713	339728	6322362	280	59	-60	118
BHRC1714	339644	6322310	284	18	-60	118
BHRC1715	339823	6322420	279	63	-60	118
BHRC1716	339839	6322379	275	37	-60	50

Summary of drilling results

The following table provides the significant intersections from the drilling being reported. The following table reports intervals submitted for multi-element assay and being discussed in this release. Intervals that were not submitted for assay are reported as NOT ASSAYED. Assays presented here are considered relevant to the release but do not include the entire suite of elements assayed for, elements that are not reported are not considered economic (e.g. Mg, Al etc.)

Significant assays listed within the announcement to which this table is attached are summaries of the data below.

Hole Id	From (m)	To (m)	Cu (ppm)	Au (ppm)	Mo (ppm)	S %
BHRC1701	0	1	769	0.12	0.44	0.05
BHRC1701	1	2	1430	0.02	4.59	0.02
BHRC1701	2	3	2010	0.01	2.5	0.09
BHRC1701	3	4	1730	0.01	2.73	0.05
BHRC1701	4	5	1870	0.01	1.53	0.02

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<i>Hole Id</i>	<i>From (m)</i>	<i>To (m)</i>	<i>Cu (ppm)</i>	<i>Au (ppm)</i>	<i>Mo (ppm)</i>	<i>S %</i>
BHRC1701	5	6	3380	0.04	1.58	0.01
BHRC1701	6	7	5010	0.05	1.53	0.01
BHRC1701	7	8	4630	0.06	1.25	0.02
BHRC1701	8	9	3100	0.14	0.65	0.01
BHRC1701	9	10	4030	0.21	1.07	0.01
BHRC1701	10	11	12050	0.14	1	0.01
BHRC1701	11	12	2400	0.03	0.91	0.01
BHRC1701	12	13	1590	0.02	1.46	0.01
BHRC1701	13	14	1120	0.01	1.77	0.01
BHRC1701	14	15	1110	0.01	1.29	0.01
BHRC1701	15	16	1210	0.01	0.93	0.01
BHRC1701	16	17	12050	0.01	1.25	0.01
BHRC1701	17	18	5780	0.02	1.01	0.01
BHRC1701	18	19	2830	0.02	0.98	0.01
BHRC1701	19	20	5390	0.01	1.39	0.01
BHRC1701	20	21	3680	0.01	1.07	0.01
BHRC1701	21	22	1630	0.01	1.18	0.01
BHRC1701	22	23	2150	0.01	1.34	0.01
BHRC1701	23	24	1640	0.01	1.47	0.02
BHRC1701	24	25	457	<0.01	1.08	0.09
BHRC1701	25	26	123.5	<0.01	0.97	0.2
BHRC1701	26	27	87.5	0.01	0.84	0.11
BHRC1701	27	28	124	0.01	0.81	0.19
BHRC1701	28	29	157	<0.01	0.71	0.19
BHRC1701	29	30	29.7	<0.01	0.68	0.14
BHRC1701	30	31	267	<0.01	1.17	0.26
BHRC1701	31	32	59.8	<0.01	1.63	0.54
BHRC1701	32	33	103.5	<0.01	1.51	0.4
BHRC1701	33	34	519	<0.01	0.98	0.32
BHRC1701	34	35	384	0.01	0.82	0.22
BHRC1701	35	36	652	<0.01	1.41	0.45
BHRC1701	36	37	166.5	<0.01	1.51	0.48
BHRC1701	37	38	14.9	<0.01	0.88	0.16
BHRC1701	38	39	65.8	<0.01	1.12	0.45
BHRC1701	39	40	9.3	<0.01	0.82	0.26
BHRC1701	40	41	7.7	<0.01	0.77	0.53

<i>Hole Id</i>	<i>From (m)</i>	<i>To (m)</i>	<i>Cu (ppm)</i>	<i>Au (ppm)</i>	<i>Mo (ppm)</i>	<i>S %</i>
BHRC1701	41	42	19.3	<0.01	1.65	0.9
BHRC1701	42	43	51.3	<0.01	0.91	0.57
BHRC1702	0		1		not sampled	
BHRC1702	1	2	550	0.13	0.67	0.12
BHRC1702	2	3	622	0.03	1.27	0.16
BHRC1702	3	4	688	0.01	1.32	0.04
BHRC1702	4	5	547	0.02	1.69	0.04
BHRC1702	5	6	431	0.01	0.74	0.02
BHRC1702	6	7	480	<0.01	0.61	0.01
BHRC1704	0	1	726	0.05	1.8	0.04
BHRC1704	1	2	676	0.05	1.32	0.02
BHRC1704	2	3	671	0.04	3.32	0.35
BHRC1704	3	4	1080	0.03	2.68	0.27
BHRC1704	4	5	769	0.01	1.43	0.07
BHRC1704	5	6	341	0.01	2.22	0.04
BHRC1704	6	7	529	0.01	1.25	0.02
BHRC1704	7	8	1660	0.03	1.07	0.03
BHRC1704	8	9	10300	0.24	1.09	0.01
BHRC1704	9	10	8220	0.06	1.32	0.01
BHRC1704	10	11	2270	0.02	1.29	0.02
BHRC1704	11	12	1110	0.01	1.47	0.01
BHRC1705	0	1	681	0.02	1.73	0.02
BHRC1705	1	2	2740	0.02	1.08	0.06
BHRC1705	2	3	5050	0.07	1.86	0.11
BHRC1705	3	4	8230	0.13	1.32	0.03
BHRC1705	4	5	1790	0.04	2.14	0.01
BHRC1705	5	6	604	0.02	1.07	0.14

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