

Unlocking exploration data from DiGS



Annual Report Release Policy (ARRP) Data
Digitisation Project

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Unlocking exploration data

Project overview

1

Project overview



Aim

Increase the volume of datasets in priority areas to encourage critical and high-tech mineral exploration investment in NSW.

Scope

Digitally capture and validate pre-2000 company exploration data

- Sourced from DiGS scanned documents
- 3 year project
- Minerals only
- 24,000 reports met criteria
- Data mining component put out to open tender

Implementation

Project commenced in 2020–21

- MEG staff reviewed reports to identify those with relevant data
- Two specialist companies contracted for data mining
- Project has 2 dedicated staff to QA data and manage contractors, plus subject matter expertise and administration support.
- Data stored in relational database, available through MinView
- Funding made available from the NSW Minerals Strategy

Modifications

- Project extended by 1 year, ends 30th June 2024
- Third specialist contractor started Q3 2022.

What is being collected?

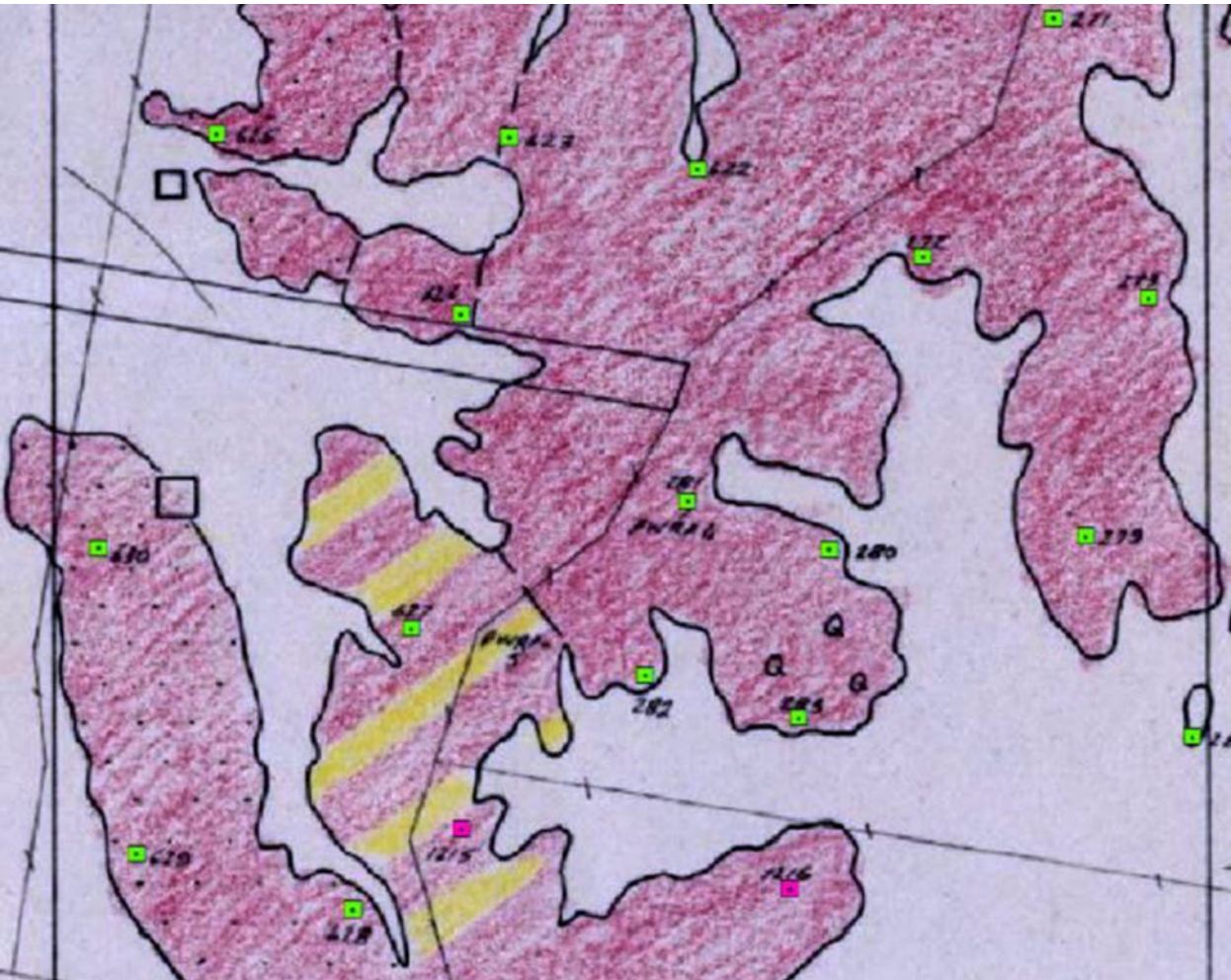
Data

- Drillhole collars
- Lithology at bottom of drillholes
 - no downhole lithology captured
- Downhole surveys
- Downhole geochemistry
- Surface geochemistry
- Report metadata summarising all other data available

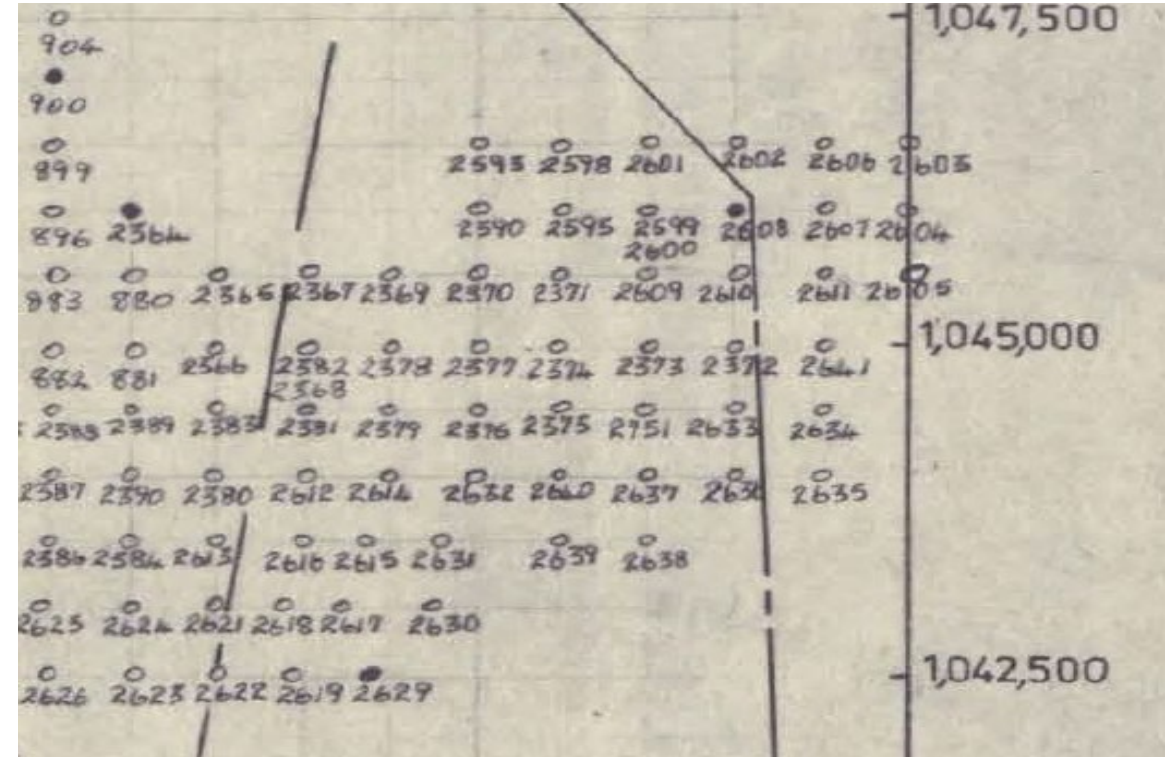
Source

- Maps
- Logs
- Laboratory reports
- Sections
- Report body

The art of extraction: examples



- Understanding exploration work done
- Locating data points and linking to results
- Extracting information into digital formats



Unlocking exploration data

Priorities

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Priorities by area

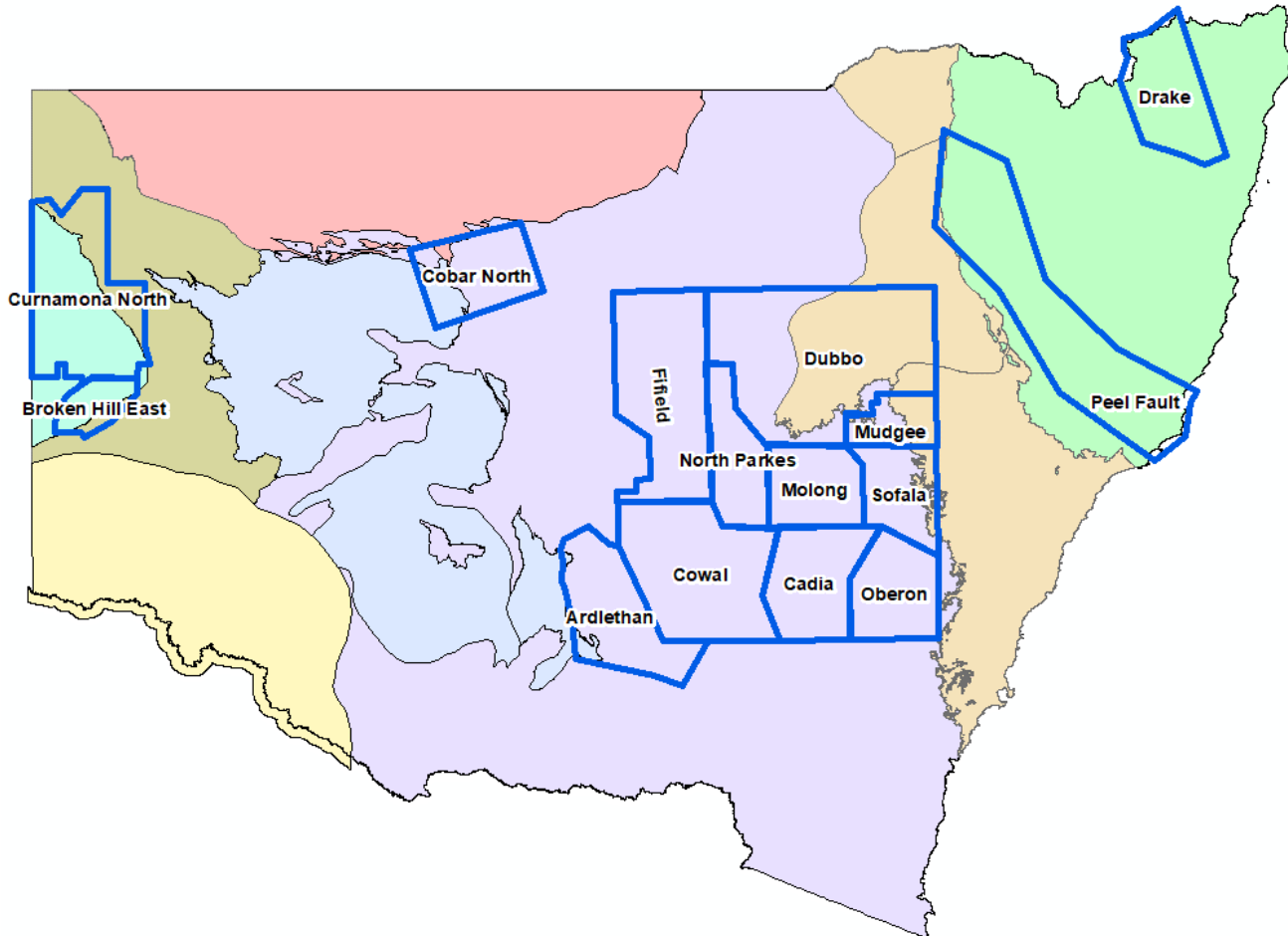


Priority	Area for digital data capture
1	Cobar MinEx Focus Area
2	Macquarie Arc
3	Remaining Cobar area plus extending east to Macquarie Arc
4	Curnamona Province
5	New England Orogen
6	Gilmore Zone
7	East Lachlan Zone
8	West Lachlan Zone
9	Koonenberry Belt and Delamerian Orogen
10	Murray Basin

Areas highly prized by mineral explorers and host to many of NSW's critical mineral occurrences

- in order of decreasing priority
- some de-prioritised due to the large percentage of work already captured there e.g. Murray Basin

Completed areas of data digitisation

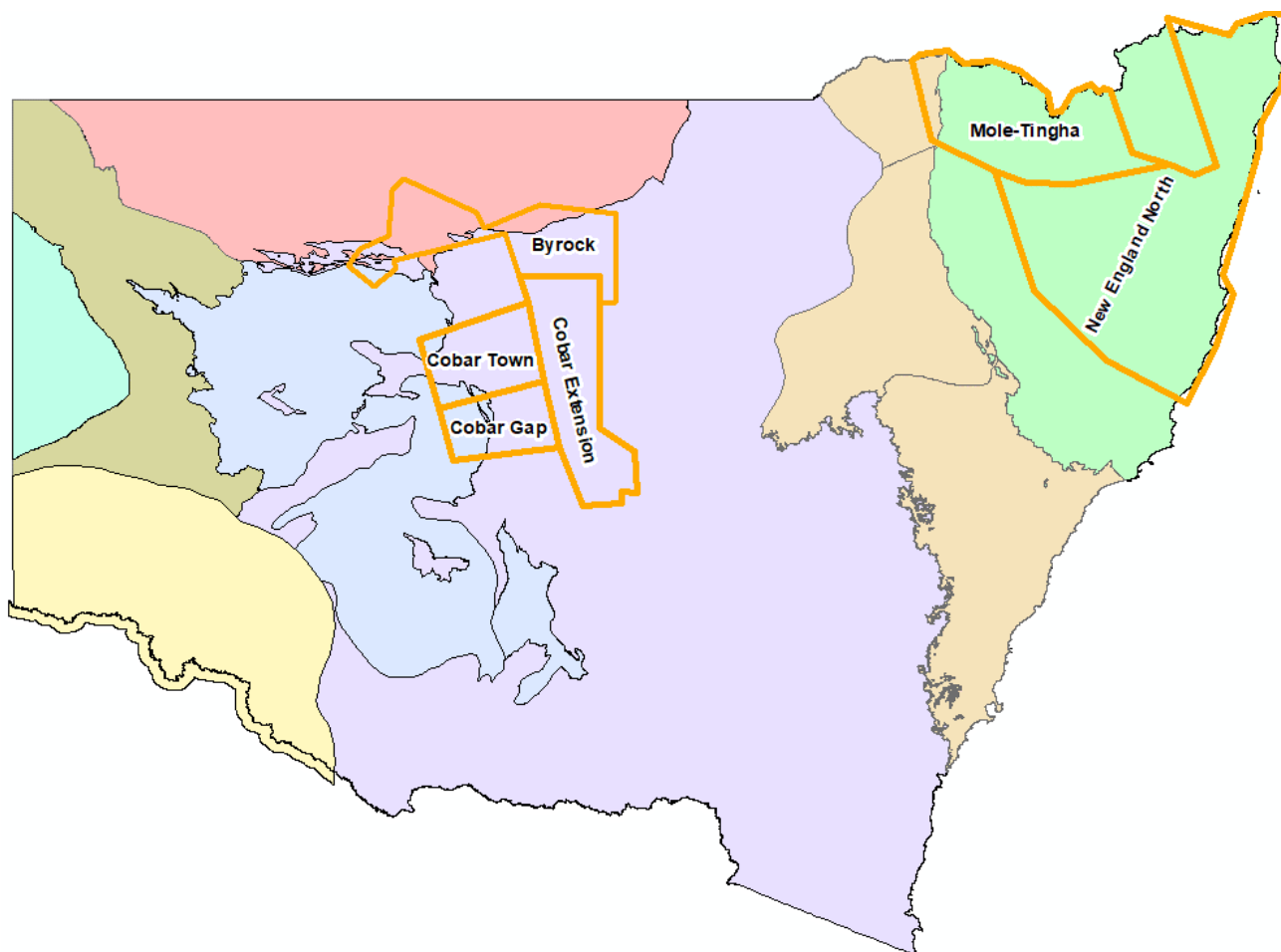


North Cobar, Macquarie Arc, Fifeild Intrusive Complex, plus parts of Broken Hill and New England.

Broad regions were divided into sub-areas based on title holdings and numbers of associated reports.

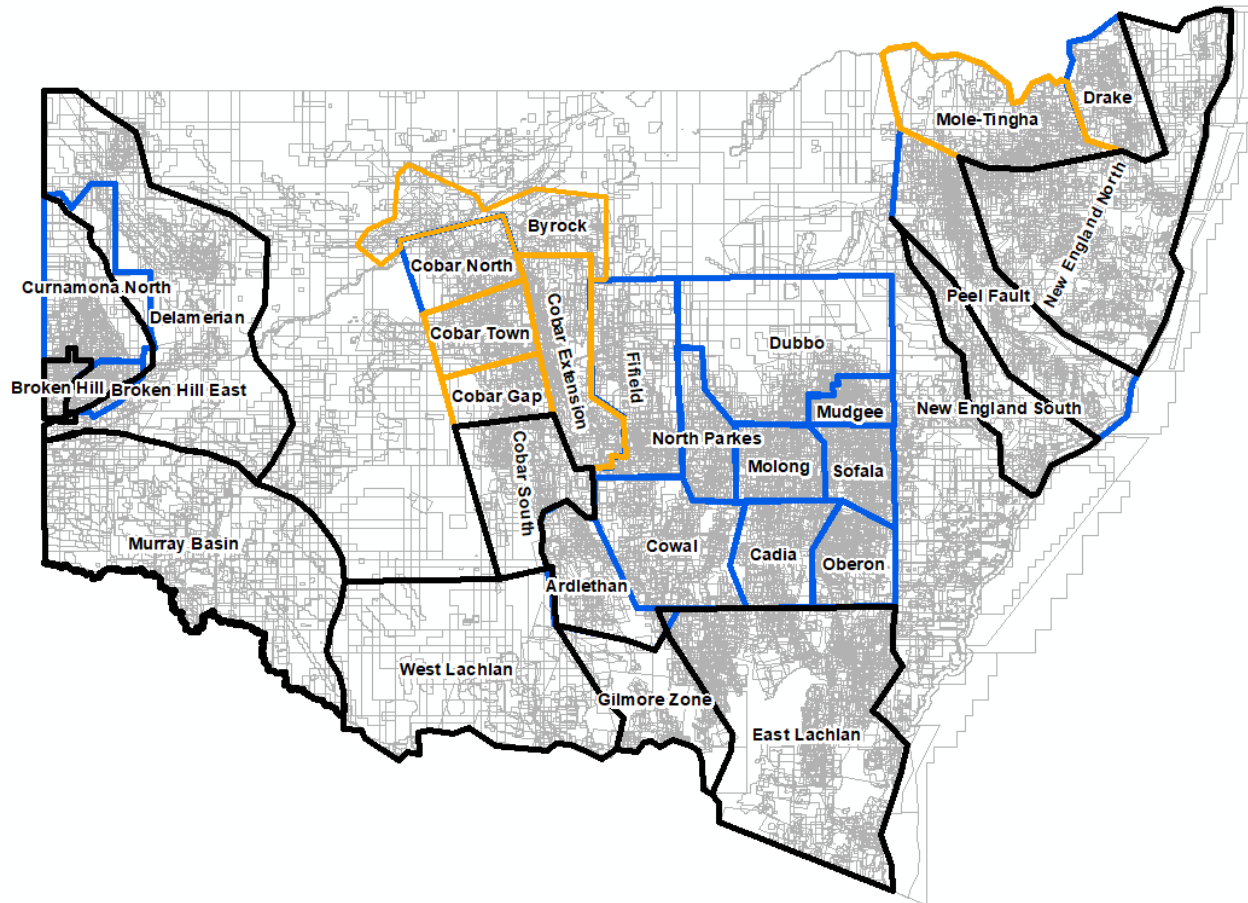
Completed regions:	West	to	East
Curnamona North	Ardlethan		Dubbo
Broken Hill East	Fifeild-Trundle		Mudgee
Cobar North	Cowal		Sofala
	North Parkes		Oberon
	Molong		Peel Fault
	Cadia		Drake

To be complete by EOFY 2023–2024



Region	Sub-area	No. reports
New England	Mole-Tingha	314
	North Priority 1	187
Cobar	Town	286
	Gap	223
	Extension	629
	Byrock	96
Total:		1735

Comparison with historical title distribution



Data mining project areas

- Blue: complete
- Orange: in progress
- Black: reports reviewed but not data mined

Unlocking exploration data

Project status

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Total data collected to date

Area	Reports Issued	Reports Delivered	New Drillholes	DH Samples	DH Surveys	BOH Lith	Surface Samples
Cowal	488	312	9134	98453	9680	7252	65306
Cadia	465	376	11735	177772	15279	9755	110974
Cobar Town	416	290	84550	153636	91429	21408	34091
Oberon	407	316	1424	36758	2353	2063	98024
Molong	400	301	3741	44997	6773	2150	49881
North Parkes	373	167	3993	55320	4479	3724	67317
Fifield-Trundle	289	194	9334	50519	7963	6984	47981
Drake	260	201	1662	33264	2590	1009	61677
Sofala	259	206	340	30915	794	749	48371
Dubbo	214	175	3695	21370	3939	3826	33786
North Cobar	163	119	17108	27781	17164	10464	21532
Curnamona North	138	108	2640	6287	2760	998	19716
Ardlethan	131	83	7598	32065	7648	7021	7419
Broken Hill East	88	67	2332	11824	2773	3228	5900
Mudgee	68	61	471	2166	566	484	8752
Statewide	52	30	599	42321	1071	1433	1904
Total	4,211	3,006	160,356	825,448	177,261	82,548	682,631

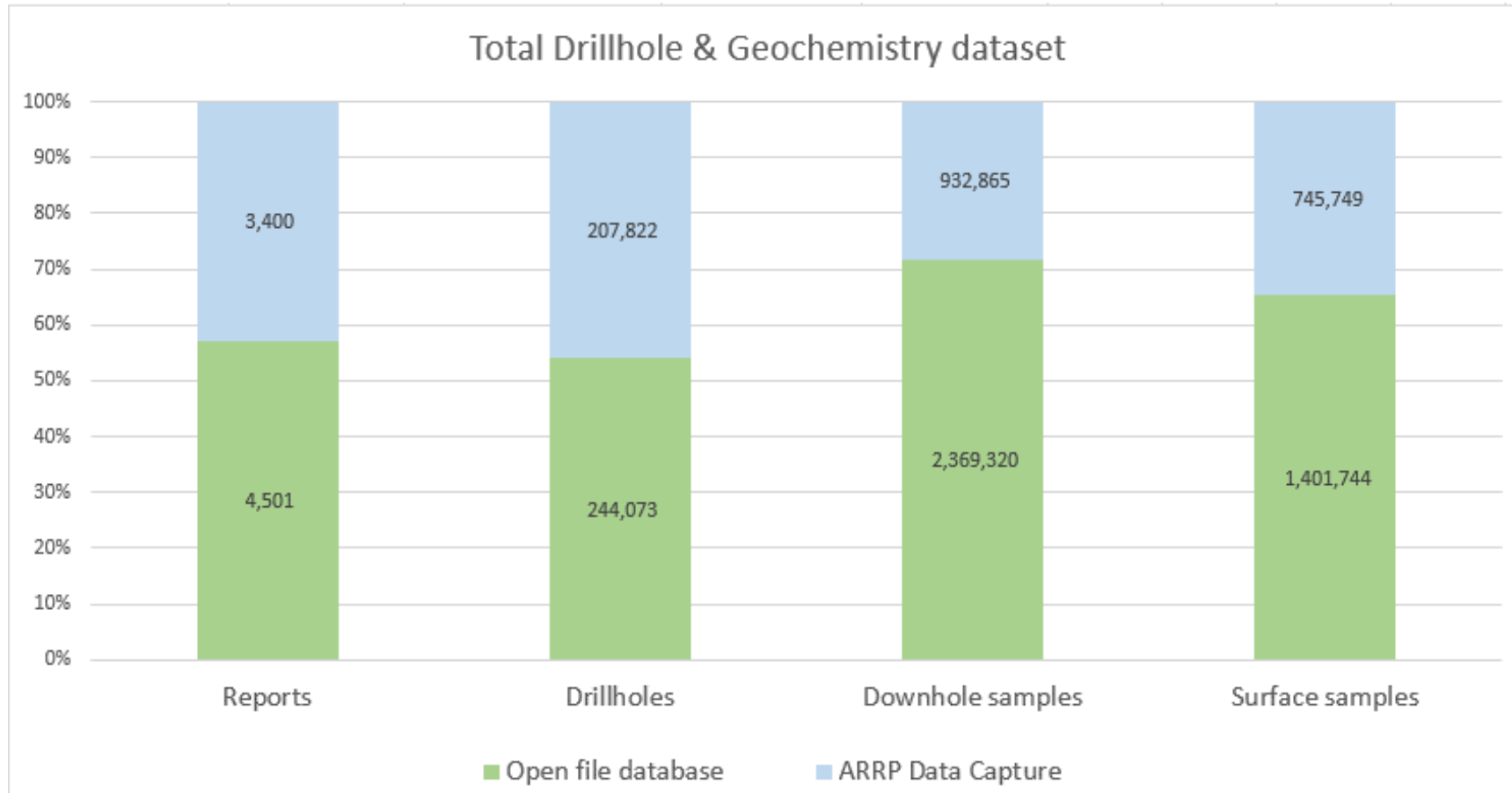
Total data in progress

Area	Reports Issued	Reports Delivered	New Drillholes	DH Samples	DH Surveys	BOH Lith	Surface Samples
Cobar Gap	223	10	1185	2354	1209	530	84
Peel Fault	241	68	163	4882	337	182	4401
Mole-Tingha	314	0	0	0	0	0	0
New England North	187	0	0	0	0	0	0
Broken Hill South	179	55	2085	10248	2341	7085	6120
Mineral Hill	209	65	2953	23089	3406	2056	14556
Nymagee	160	110	18208	28550	18770	4965	20651
Hermidale	260	86	22872	38294	23329	4553	17306
Byrock	96	0	0	0	0	0	0
Total	1,869	394	47,466	107,417	49,392	19,371	63,118

Project total data counts

Status	Reports Issued	Reports Delivered	New Drillholes	DH Samples	DH Surveys	BOH Lith	Surface Samples
<i>Complete</i>	4211	3006	160356	825448	177261	82548	682631
<i>In Progress</i>	1869	394	47466	107417	49392	19371	63118
Total	6,080	3,400	207,822	932,865	226,653	101,919	745,749

Growth of mineral exploration datasets



Impact of ARR P data delivered to date:

- 45% increase in number of reports and drillhole collars
- 35% increase in number of surface samples
- Majority of data digitised is open file

Unlocking exploration data

Data access

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All data is available from MinView



RIN	PERIODEND	RPT_TYPE	SAMPLEID	SAMPCODE	LAT94	LNG94	Ag_ppm	As_ppm	Au_ppm	Bi_ppm	Co_ppm	Cr_ppm	Cu_ppm	Fe_pct	Li_ppm	Mg_pct	Mn_ppm	Mo_ppm	Ni_ppm
RE0005361	20140203	F	222887	ROCKCHIP	-32.643	149.743	0.04	9.7	0.01	0.02	3.9	14	12.2	1.32	0.4	0.02	48	0.53	10.1
RE0005361	20140203	F	222888	ROCKCHIP	-32.644	149.743	0.07	13.1	0.023	0.03	0.5	12	4.1	1.2	1.8	0.05	36	0.58	2.2
RE0005361	20140203	F	222889	ROCKCHIP	-32.644	149.742	0.31	26.7	0.037	0.15	6.3	13	28.8	1.8	0.6	0.01	85	0.69	14.6
RE0005361	20140203	F	222890	ROCKCHIP	-32.645	149.742	0.05	9.5	0.007	0.26	0.9	7	3.6	0.57	1.4	0.03	106	0.6	1.5
RE0005361	20140203	F	222891	ROCKCHIP	-32.645	149.741	0.03	11.1	0.001	0.27	21.3	29	14.8	3.07	27.8	1.31	632	0.48	29.6
RE0005361	20140203	F	222901	SOIL	-32.666	149.771	0.11	27.3	-0.001	0.18	17.7	59	17.8	2.38	14.8	1.03	832	0.88	32.9

What if you want it all?

Subject: GSNSW - Statewide Assays Data (MapInfo)

MinView download request 10870 succeeded.

Please note: Several feature layers in NSW Statewide assay dataset exceed the 2GB size limit of MapInfo file format. Alternative formats available via links below for NSW Statewide assay data:

File Geodatabase (.gdb)

https://dwh2.geoscience.nsw.gov.au/fmedatadownload/results/Statewide_GDB_ASSAYS.zip

Text file (.CSV)

https://dwh2.geoscience.nsw.gov.au/fmedatadownload/results/Statewide_CSV_ASSAYS.zip

OGC Geopackage (.gpkg)

https://download.geoscience.nsw.gov.au/assay_data/Statewide_GPKG_ASSAYS.zip

Spatialite (.SQLite)

https://download.geoscience.nsw.gov.au/assay_data/Statewide_SQLITE_ASSAYS.zip

Alternatively, please select a smaller area of the state for data download if requiring data in MapInfo file format.

Kind Regards,

The MinView team

Download data in GIS & CSV formats

Send download link to:

Map extent: Use current view All of NSW

- Statewide data downloads are now too large for the GIS data formats provided to date.
- Selecting 'All of NSW' will trigger an email (see left) that provides links to current statewide exports.
- Each link is a snapshot taken from within the last month.