## Mine plans

See separate documents *Data\_request\_MinePlans.docx*

## GIS data

## Data stored in folder GIS ( or from Inferis / Prospect)

* Coal resources BGS Map 2002: includes Bottom CM and top CM contour / polygon, faults and mines of North-east England and Scotland
* Coalfield contours
* Discharge points
* Monitoring points
* InSAR
* Minewater\_Blocks contours
* Rivers
* Temperature site points (CA\_TempData\_Sites)
* Topography

## Data License request

See list in *Coal\_Authority\_Academic\_Re-use\_Licence\_Application\_Form.docx*

+ User Guide folder

# Temperature profiles and TS

-a---- 13/10/2017 15:23 426496 A Winning Shaft Log.xls

-a---- 13/11/2018 09:53 358741 A Winning Weir Data 2017 to 2018.xlsx

-a---- 09/01/2020 14:54 1385434 AWinning.xlsx

-a---- 12/01/2020 10:25 855093 Temperatures at A Winning.xlsx

-a---- 13/01/2020 16:08 5368370 Babbington BH Logger Data.xlsx

-a---- 05/11/2018 10:25 1424413 Babbington ECT Log.xlsx

-a---- 16/04/2013 10:53 11546 Barnsley Main Shaft Insets.xlsx

-a---- 09/05/2013 17:07 336815 Barnsley Main Shaft Log.xlsx

-a---- 09/12/2019 12:17 570140 Bates Cascade Combined.xlsx

-a---- 12/01/2020 11:05 336386 Bates Cascade Temperature Logger Data.xlsx

-a---- 12/01/2020 11:04 916018 Bates No2 Shaft Log 2010.xlsx

-a---- 06/10/2015 13:32 261904 Bates Shaft Log.xlsx

-a---- 12/01/2020 10:45 351798 Bates Shaft Water Level Logger Data.xlsx

-a---- 12/01/2020 10:59 5564161 BatesNo2 Shaft Logger v QA Data.xlsx

-a---- 14/04/2016 09:24 1031604 160331v2\_EasthousesBH\_TCDS.pdf

-a---- 14/04/2016 08:57 2586636 160331v2\_TCDS\_Bilston Glen\_310316.pdf

-a---- 06/04/2016 10:44 850133 160331\_EasthousesBH\_T&EC.pdf

-a---- 28/01/2019 13:56 16249 20190128 - Bilston Glen - Junkies Adit Flow.xlsx

-a---- 16/09/2019 15:13 2318058 20190905 - Easthouses - Tech Note FINAL.pdf

-a---- 25/07/2018 09:29 13709 Bilston Glen Chem 2012 and 2014.xlsx

-a---- 05/04/2016 15:50 27524 Bilston Glen Detailed Graph March 2016.pdf

-a---- 05/04/2016 15:26 33066 Bilston Glen Graph March 2016.pdf

-a---- 31/01/2017 16:51 5355187 Bilston Glen Projection 2017-01.xlsx

-a---- 21/06/2017 10:55 2789373 Bilston Glen Projection 2017-06.xlsx

-a---- 24/07/2018 11:40 30023 Bilston Glen Projection 2018-07.pdf

-a---- 24/01/2020 14:50 15184049 Bilston Glen Shaft - All Logs.xlsx

-a---- 14/04/2016 08:58 8117161 Bilston Glen Shaft Logs.xlsx

-a---- 24/07/2018 11:51 445733 Bilston Glen vs Old Fordel.pdf

-a---- 12/06/2019 15:40 2042637 Bilston Glen vs Old Fordel.xlsx

-a---- 13/09/2019 08:27 8199918 Easthouses BH Logs.xlsx

-a---- 12/01/2020 18:42 3535340 Easthouses Logger vs QA Data.xlsx

-a---- 13/09/2006 13:52 270479 Long-term changes in the quality of polluted minewater discharges - Scotland.pdf

-a---- 07/10/2019 10:54 4131925 Old Fordel Logger vs QA Data.xlsx

-a---- 23/10/2015 17:10 2922243 Blenkinsopp Calcs.xlsx

-a---- 06/09/2019 09:08 720896 Blenkinsopp Log.xls

-a---- 12/01/2020 11:36 2351846 BLENKINSOPP SHAFT Combined.xlsx

d----- 24/01/2020 14:07 Pumping\_BH

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-a---- 20/10/2017 11:33 427248 656.10 Blindwells 2016-2017.xlsx

-a---- 20/11/2019 13:17 2785521 656.4 - Blindwells BH5a logger Data.xlsx

-a---- 12/01/2020 19:22 6261543 Joppa Diver Logger Weir Flows Conversion.xlsx

-a---- 14/08/2018 13:53 1322810 Muirpark Logger vs QA Data.xlsx

d----- 10/01/2020 14:16 Charts

-a---- 03/02/2012 13:01 942566 Full Data Cascade Aeration Report.xlsm

-a---- 06/01/2020 16:06 194897 Summary.xlsx

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-a---- 10/11/2008 13:15 721046 tcgsd1\_Chatershaugh.LAS

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d----- 28/01/2020 11:04 Easington Shaft

d----- 28/01/2020 12:09 Hawthorn Shaft

d----- 28/01/2020 11:55 Horden South Shaft

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-a---- 13/03/2015 12:30 885760 Boldon Shaft Logs.xls

-a---- 16/08/2018 12:06 74537 Dawdon Horden mine water block factsheet v0.20.docx

-a---- 23/03/2006 16:07 105472 Duhram Plots.xls

-a---- 10/01/2006 15:43 94208 Durham Coast Shaft Log Chem Cross Plots.xls

-a---- 21/10/2008 00:00 26624 Durham Shaft Sampling Data 2008.xls

-a---- 05/01/2007 00:00 1623040 Shafts Logs v Fe - Dec 06.xls

-a---- 26/11/2018 17:05 2528517 Fordell No2 Shaft Logger v QA.xlsx

-a---- 13/01/2020 08:53 1723995 Fordell Upper Discharge Logger vs QA Data.xlsx

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-a---- 16/01/2020 15:51 254840 Kimblesworth Inlet Temp Logger.xlsx

-a---- 09/01/2020 14:37 618582 Kimblesworth Pumping Shaft Logger.xlsx

-a---- 16/01/2020 15:51 5745673 Kimblesworth Pumping Spreadsheet.xlsx

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-a---- 12/01/2020 20:25 618911 Langwith Shaft Log.xlsx

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-a---- 28/08/2019 18:05 654309 Leacroft logging note.docx

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-a---- 28/08/2019 17:05 2046336 Littleton Logging.xlsx

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-a---- 10/11/2008 13:49 597728 Lumley 2008-11.LAS

-a---- 28/01/2020 12:08 623104 Lumley 6th Log.xls

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-a---- 11/12/2019 11:19 13408722 Lynemouth WL v T Graphs.pdf

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-a---- 11/10/2005 15:06 801793 Nicholsons 2005-10.LAS

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-a---- 02/08/2019 15:21 2884243 Balgonie Dalginch Logger vs QA Data.xlsx

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-a---- 05/03/2014 16:24 77038 Whitburn EC-T log.xlsx

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-a---- 31/07/2019 14:59 435498 Woolley Cascade Combined.xlsx

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-a---- 11/12/2019 15:22 4227559 Pitfirrane Logger Flow Data.xlsx

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-a---- 07/02/2000 14:54 510600 Sherburn Hill 2000-02.LAS

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-a---- 18/09/2019 12:16 227840 Stoney Hall CM Log.xls

-a---- 25/01/2010 15:01 154112 Stoney Hall Mag Lst Log.xls

-a---- 03/12/2009 08:44 37104 Stony Hall Boreholes Geological Section at NZ 3261 2953 Permian and Coal Measures.pdf

-a---- 23/01/2020 11:11 3790554 Stony Heap Baro Conversion.xlsx

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-a---- 31/07/2019 14:52 1153815 Taff Merthyr Combined.xlsx

-a---- 18/10/2017 10:03 11602 Thorpe Hesley No2 Shaft Insets.xlsx

-a---- 20/06/2018 09:52 5122318 Thorpe Hesley Shaft Log.xlsx

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-a---- 28/08/2019 17:30 2661573 West Cannock No 5 Seam log.xlsx

-a---- 28/08/2019 17:30 17540722 West Cannock No 5 Seam logging note.docx

-a---- 12/01/2020 22:43 1752531 Whitburn Logger vs QA Data.xlsx

-a---- 13/08/2018 15:51 1306057 Whitrigg Logger vs QA Data.xlsx

-a---- 29/06/2017 16:11 2168144 Williamthorpe Shaft Log (2).xlsx

-a---- 22/05/2017 10:36 1436849 Williamthorpe Shaft Log.xlsx

-a---- 12/01/2020 22:35 76428 Woodside 2017.xlsx

-a---- 05/11/2012 14:33 541184 Woodside Logs.xls

-a---- 26/10/2015 21:58 222037 Woodside Logs.xlsx

Monthly Plots - Scotland.xlsx

# Reports

Subsidence Engineers Handbook.pdf

## Bilston Glen

-d--- Cross\_Section

Bilston Glen - Tech Note FINAL DRAFT.pdf

Easthouses - Tech Note FINAL DRAFT.pdf

Bilston feasibility report 47068917 MARP002 final.pdf

Bilston feasibility report 47068917 MARP002 final\_annoted.pdf

Bilston Glen Area Map.xlsx

Bilston Glen Area monitoring borehole options Report by WYG Nov2011.pdf

Bilston Glen Area Rising Mine Water Strategy Notes from Scoping Study 2014-03.docx

Bilston Glen Map.png

Bilston Glen URS Scoping Report - DRAFT 2014-03.pdf

Bilston report 47068917 complied appen 150715.pdf

Coalfield strategy document - Bilston Glen DRAFT Vers 2 June 2014.docx

Drawing 47068917 Bilston Glen Fig 1 Loc Plan.pdf

Drawing 47068917 Bilston Glen Fig 2 CSM.pdf

Easthouses and Bilston Glen Workings - Inferis.pdf

Easthouses Colliery Site Area.docx

IMC Bilston Glen Report July 1998 3.pdf

Junkies Level Reserch Lucy Owens V2.pdf

Midlothian Coalfield - Establishment of Monitoring Boreholes -February 1998.pdf

Midlothian Coalfield - Groundwater Control - March 1999.pdf

Midlothian Coalfield - Minewater Control - March 1999.pdf

idlothian Coalfield monitoring boreholes Dalkeith report by JMC1998.pdf

Mine Water - Scotland - Younger.pdf

Report on Bilston Glen Colliery Rising Minewater July 1998 by IMC.pdf

WYG Report on Mine Water Control Elginhaugh 2005.pdf

## Dawdon

d--- DurhamPumpingTrial

d--- East of Wear shaft logging report 2005 WYG

Coalfield strategy document - East of Wear (Dawdon-Horden) DRAFT Vers 1 August 2014.docx

Dawdon & Horden Control Level Review August 2012.pdf

Dawdon & Horden MWTS summary for STS.docx

Durham - Options for the Control of Mine Water - East of the River Wear (Draft) - August 2001.pdf

Hydrogeochem of Co Durham Minewaters.pdf

Hydrogeochemistry of Durham Coalfield Pumped Minewater.pdf

mine water review report for EasingtonDC by Paul Younger July 2003 comments final.doc

Minewater Discharge - Rivers Tyne & Wear.pdf

Minewater Temperature Distribution in North East.pdf

Options for Control of Mine Water in East of Wear Area Report by WYG 2006.pdf

Preliminary Estimates of Recharge and River-Aquifer Interaction in the South of Butterknowle Fault Area - May 2007.pdf

Preliminary Investigation into the Suitability of Durham Coastal Colliery Sites as Long Term Minewater Pumping Stations - November 1999.pdf

report on minewater pumping & water problems northumberland & durham coalfield by British Coal North East 1992.pdf

UKgroundwater forum Dawdon CA talk.ppt

## Papers

Addressing Sustainability in Ground Source Heat Pump Projects - Huw Williams and Martin Preene.pdf

Boon et al., 2019 Groundwater heat pump feasibility in shallow urban aquifers - Experience from Cardiff, UK.pdf

Can you Take the Heat - Geothermal Energy in Mining - M Preene and P L Younger.pdf

Heat Pumps - Energy recovery from mining wastes.pdf

Open-loop groundwater source heat pumps code of practice CP3 - 2019 CIBSE.pdf

Potential Use of Ground Energy in the Extractive Industry - M Preene and G Digges la Touche.pdf

The Potential Use of Ground Energy in the Mining Industry - Exploration to Closure - Gareth Digges La Touche, Martin Preene.pdf

Underground Mine Water for Heating and Cooling using Geothermal Heat Pump Systems - 2006.pdf

WaterChem Final Project Report V 9.1 aquifer coalfield interactions in Durham and Nottinghamshire etc.pdf

# Data List

Data useful as memo for the interpretation of the water level and temperature profiles (i.e. location of the site, type of site, type of measurements, additional charts…)

001391848-Alphabetical List of British Coal Collieries April 1992 with closure dates.xls

CA Schemes and Flow Chemistry and Temperature Data Summary - FY2014-15.xlsx

Calculations for Piper Diagram project.xls

Daily Rainfall Analysis Example.xlsx

DischargeConsent\_January\_2020 Report\_iss1\_rev.pdf

DRAFT - A geochemical comparison of the coal mine waters of Great Britain.docx

Inferis Monitoring Points Update List.xlsx

Mine water pumping and water level monitoring sites - seperate tabs August 2018.xlsx

Monthly Plots - Scotland.xlsx

South Notts presentation Mar2012 to NCC in CA format.pptx

Temperature Data - technical note justification.docx

Temperature Data Summary of sites and temperature (Autosaved).xlsx

UK Discharges from Coal Mines MASTER LIST.xls

Units of measurement for hydrogeology.pptx

Weirs On Site Data.xlsx

Logger Status Report June 2018.xlsx

Water Level Control Charts\_2020\_01\_07\_iss1\_rev.xlsx

MWTS Summary of site information.xlsx

On Site Measurements.xlsx

Seam Code List- July 2016.xls

# Personal Notes

* Screenshot of Inferis / prospect and topographic cross-section for Dawdon and Bilston Glen
* Analysis of mine-water temperature depending on the measurement type / site
* Personal analysis of mine plans, mine geometries with notes on Bilston glen and Dawdon
* GIS maps from GIS layers listed in section I
* Notes on potential modelling approaches
* Notes on temperature data
* Summary of all the data available for model calibration / validation...
* Sorting /Analysis of temperature profiles / Time-series
* Maps of site location
* Summary of logged temperatures across the UK (work in progress)