

LDP-EBD-BP4
Cynllun Datblygu Lleol Sir y Fflint i'w
Archwilio gan y Cyhoedd
2015 - 2030

Papur Cefndir 4
Mwynau
Medi 2019

PAPUR CEFNDIR MWYNAU

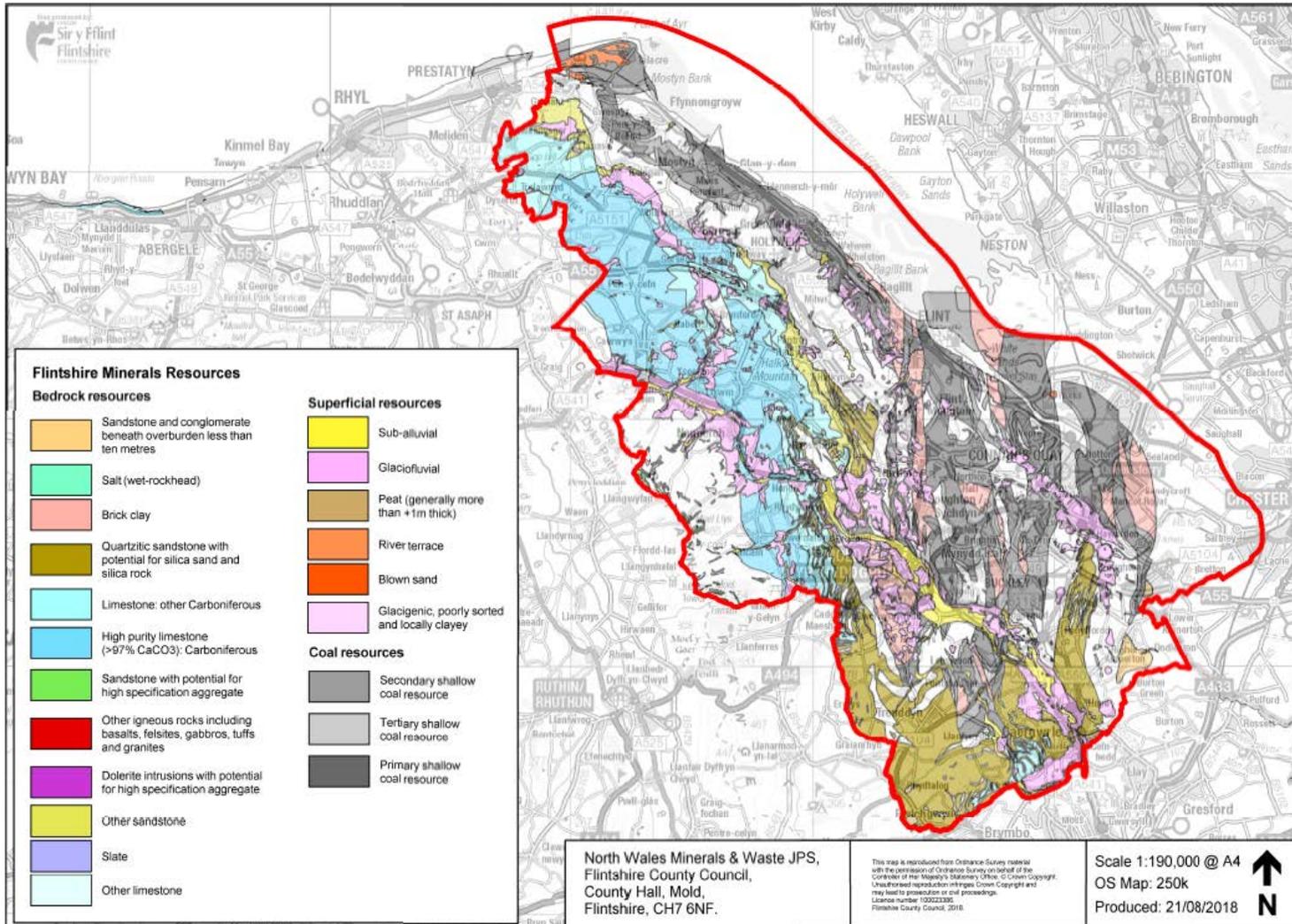
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1. CYFLWYNIAD

1.1. Pwrpas

- 1.1.1. Paratowyd y papur cefndir hwn i gefnogi Cynllun Datblygu Lleol (CDLI) Adneuo 2015-2030. Pwrpas y papur yw esbonio sut datblygwyd y dyraniadau gan ystyried yr adnoddau mwynol gwaelodol ar draws y Sir a sut datblygwyd y polisïau mwynau. Mae mwynau'n gydran bwysig o economi Sir y Fflint gyda nifer o safleoedd strategol bwysig yn y Sir. Mae mwynau'n hollbwysig i'r diwydiant adeiladu, ac felly mae eu cyflenwad parhaus yn hanfodol bwysig i gyflawni'r CDLI. Mae mwynau'n adnodd cyfyngedig y gellir ond eu gweithio lle maen nhw'n digwydd. Mae'r pwysau cynyddol am ddatblygiadau heb fod yn fwynol yn her benodol, yn enwedig mewn Siroedd fel Sir y Fflint lle mae aneddiadau wedi'u ffurfio yn sgil cloddio mwynau.
- 1.1.2. Ystyriaeth bwysig wrth ddatblygu'r CDLI a'r dull o droi at fwynau fu hyd a lled mwynau o bwysigrwydd economaidd ar draws y Sir. O dan ardaloedd adeiledig Sir y Fflint, mae nifer o wahanol fwynau o bwysigrwydd economaidd, gan gynnwys tywod a graean, glo (sylfaen neu eilradd) a chalchfaen, gan gynnwys calchfaen o burdeb uchel. Dengys Ffigur 1 ddsbarthiad y mwynau ar draws y Sir.
- 1.1.3. Yn hanesyddol, mae ystod o fwynau wedi'u gweithio yn Sir y Fflint, gan gynnwys mwynau metelaidd, glo, calchfaen, clai, tywod a graean, silica a thywodfaen. Ceir nifer o chwareli gweithredol yn y Sir sy'n parhau i gynhyrchu calchfaen a thywod a graean. Cynhyrchir calchfaen mewn nifer o safleoedd am agregau, ac at ddefnyddiau diwydiannol yng Nghefn Mawr. Caiff tywod a graean eu cynhyrchu o hyd ym Maes Mynan ond ceir cronfeydd a ganiateir yn Fron Haul a Ddol Uchaf. Mae'r cynhyrchiant tywod a graean yn Sir y Fflint dipyn yn llai o gymharu â Wrecsam sydd â chronfeydd sylweddol o hyd yn Chwarel Borrás. Yn hanesyddol, mae glo a phlwm wedi'u gweithio yn y Sir ac wedi gadael etifeddiaeth y mae'n rhaid ei hystyried wrth ddatblygu ar safleoedd gwaith blaenorol neu'n agos atynt.
- 1.1.4. Yn ogystal â chwarelu mwy traddodiadol, bu'r Sir yn destun diddordeb mewn perthynas â chloddio am nwy anghonfensiynol. O dan y Sir mae haenau glo sy'n gallu cynhyrchu nwy methan a allai gael ei ddefnyddio (Methan Gwely Glo). Rhoddwyd caniatâd i geisiadau am dyllau turio archwiliadol yn yr awdurdod a cheir blociau trwyddedau yn y Sir.
- 1.1.5. Mae'r papur hwn yn tynnu oddi ar y wybodaeth gefndir ganlynol:
- Adolygiad 1^{af} Datganiad Technegol Rhanbarthol Gogledd Cymru (2014);
 - Mapiau Adnoddau Mwynol (2010) Arolwg Daearegol Prydain;
 - Mapiau Diogelu Agregau (2012) Arolwg Daearegol Prydain;
 - Map gweithgarwch olew a nwy ar y tir a gyhoeddwyd gan yr Awdurdod Olew a Nwy;
 - Caniatadau Cynllunio;
 - Arolwg Blynnyddol Gweithgor Agregau Rhanbarthol Gogledd Cymru 2016
 - Arolygon 2001-2014 Annual Minerals Raised Inquiries (AMRI)
 - Digest of UK Energy Statistics: Solid Fuels and Derived Gases (2017)

Ffigur 1: Map o Adnoddau Mwynol Sir y Fflint



2. CYD-DESTUN POLISI

2.1. Polisi Cynllunio Cymru (Rhifyn 10, Rhagfyr 2018)

- 2.1.1. Mae'r Polisi Cenedlaethol yn gosod nifer o egwyddorion pwysig mewn perthynas â mwynau y dylid mynd i'r afael â nhw trwy'r CDLI:
- Sicrhau cyflenwad cynaliadwy;
 - Diogelu ar gyfer cenedlaethau'r dyfodol;
 - Lleihau gwrthdaro rhwng datblygiadau mwynol a heb fod yn fwynol;
 - Sicrhau adferiad addas;
 - Annog defnyddio dewisiadau eraill i adnoddau elfennol.

2.2. Nodyn Cyngor Technegol Mwynau 1: Agregau

- 2.2.1. Mae Nodyn Cyngor Technegol Mwynau (MTAN) 1: Agregau yn rhoi cyngor ar sut y dylai'r system cynllunio defnydd tir gyfrannu at gyflenwad cynaliadwy'r agregau ac yn gosod cyngor manwl ar agregau, fel calchfaen, tywod a graean. Mae Paragraff 49 yn gofyn am gynnal banc tir o 10 mlynedd o leiaf o graig wedi'i malu ac o leiaf 7 mlynedd o fanc tir o dywod a graean ar hyd cyfnod yr CDLI. Lle mae modd i fanc tir ddarparu dros 20 mlynedd o gloddio, ni fydd angen dyraniadau newydd ac ni ddylid caniatáu cynigion am ragor o gloddio heblaw mewn amgylchiadau eithriadol. Ers hynny, mae Llywodraeth Cymru wedi cyhoeddi Llythyr Egluro Polisi CL-05-14, sydd yn ei hanfod yn cynghori, o gofio hyd yr CDLlau, y byddai'n ddarvoudus dod i'r casgliad hwn dim ond petai banc tir o 25 mlynedd neu'n fwy ar waith. Mae'r Llythyr hefyd yn cynghori methodoleg ddiwygiedig, gan ddefnyddio cyfartaledd gwerthiant o 10 mlynedd yn hytrach na 3, er mwyn cyfrifo bod y banc tir yn briodol o gofio'r dirwasgiad economaidd. Defnyddiwyd y fethodoleg hon i ddynodi lefel yr angen yn y Datganiadau Technegol Rhanbarthol a drafodir ym mharagraff 2.5.1 isod.
- 2.2.2. Er mwyn lleihau effaith cynhyrchiant agregau, mae angen i awdurdodau lleol glustnodi parthau clustogi o gwmpas safleoedd cloddio mwynau a ganiateir ac a ddyrennir (yn unol â Pholisi Cynllunio Cymru). Mae MTAN 1 yn dynodi'r isafswm pellter y dylid ei gynnal ar gyfer tywod a graean (100m) a chwareli craig galed (200m).

2.3. Nodyn Cyngor Technegol Mwynau 2: Glo

- 2.3.1. O dan Sir y Fflint mae Maes Glo Sir y Fflint ac yn hanesyddol, mae wedi'i weithio'n ddwfn ac ar yr wyneb. Mae Nodyn Cyngor Technegol Mwynau (MTAN) 2: Glo yn rhoi cyngor ar sut dylai'r system cynllunio defnydd tir gyfrannu at y cyflenwad cynaliadwy o lo ac mae'n gofyn i awdurdodau lleol gyfeirio gwaith glo i ffwrdd o leoliadau sensitif a dynodi'r ardaloedd lle na ddylid gweithio glo. Mae'n datgan y dylid dangos parthau clustogi o 500m o gwmpas safleoedd gweithio glo presennol ac arfaethedig ac ardaloedd i'w diogelu ar y mapiau cynigion oni fod amgylchiadau eithriadol fel y gosodir yn yr MTAN. Mae'r MTAN yn nodi lle byddai gwaith glo'n dinistrio neu'n diraddio tirweddau aeddfed, coetiroedd hynafol, gwrychoedd pwysig neu goed diamddiffyn, dylid eu caniatáu dim ond os ydy'r buddiannau

adennill yn gorbwysu'r niwed amlwg o weithio safle. Nid oes rhagolwg o angen na banc tir o gronfeydd a ganiateir ar gyfer glo, fel sydd ar gyfer agregau.

- 2.3.2. Ar 26 Hydref 2017, cyhoeddodd Llywodraeth Cymru lythyr¹ mewn perthynas â datgarboneiddio'n system ynni a bwriad i ymgynghori ynghylch a ddylai polisi cenedlaethol bellach fod yn gefnogol o rai mathau o gloddio am danwydd ffosil, gan gynnwys glo.
- 2.3.3. Mae PPW10 yn ailddatgan y dull hwn, ac yn benodol, yn tynnu ymaith yr angen i ddiogelu adnoddau glo. Mae PPW10 yn datgan y gallai Awdurdodau Cynllunio Lleol ddymuno diogelu glo crai, yn dibynnu ar eu hamgylchiadau unigol². Gan nad oes amgylchiadau penodol yn Sir y Fflint i warantu diogelu adnoddau glo, nid yw Ardaloedd Diogelu Mwynau bellach yn diogelu adnoddau glo ac nid yw'r mapiau cynigion yn cynnwys Ardal Diogelu Mwynau glo. At hynny, ni fyddai gofyniad ym Mholisi EN23 i safleoedd lle mae glo oddi tanynt ddarparu asesiad cloddio o flaen llaw.
- 2.3.4. Mae PPW10 yn datgan na ddylid caniatáu cynigion am ddatblygiad mwynglawdd agored, dwfn neu gyfleuster gwaredu ysbail glofa ac eithrio dan amgylchiadau eithriadol dros ben lle byddai angen i'r cynigion ddangos angen yn glir, yng nghydestun targedau gostwng newid hinsawdd ac am resymau diogelu ynni cenedlaethol.³ Petai cais yn cael ei gyflwyno, ystyrir bod digon o ddiogelwch yn yr CDLI gyda'r darpariaethau a wnaed ym Mholisiau PC2, EN26 a pholisiau EN eraill, a hefyd PPW10 i ddiogelu'r amgylchedd a'r amwynder.

2.4. Olew a Nwy ar y Tir

- 2.4.1. Cafwyd diddordeb yn y Sir mewn cloddio Methan Gwely Glo a rhoddwyd caniatâd cynllunio ar gyfer tyllau turio archwiliadol yn y Sir. Yn ogystal â chaniatâd cynllunio, rhaid cael trwydded ar gyfer y safle. Mae dau floc trwydded yn Sir y Fflint: PEDL 184 a PEDL 147, gweler Ffigur 2 isod. Ni chyhoeddwyd blociau trwyddedau pellach yn ystod y 14eg Rownd Trwyddedu Tua'r Tir. O fis Hydref 2018 ymlaen, trosglwyddwyd swyddogaethau trwyddedu o'r Awdurdod Olew a Nwy i Weinidogion Cymru. Mae'r sefyllfa polisi ddiwygiedig a osodwyd yn PPW10, mewn perthynas â pharhau i gloddio am danwydd ffosil yn ei gwneud hi'n amlwg y dylid osgoi cloddio am olew a nwy anghonfensiynol⁴, gyda mesurau galw i mewn os bydd yr Awdurdodau Cynllunio Lleol yn cymeradwyo⁵. Fodd bynnag, er bod PPW10 yn gryf yn erbyn datblygu ynni mwynol, nid yw'n atal y posibilrwydd o greu achos eithriadol, ac nid oes dim i atal rhag cyflwyno cais cynllunio. Os bydd cais yn cael ei gyflwyno, ystyrir bod digon o ddiogelwch yn yr CDLI gyda'r

¹ Cyfeirnod MA-P-LG-369117

² PPW10 (paragraff 5.10.17): <https://llyw.cymru/sites/default/files/publications/2018-12/polisi-cynllunio-cymru-rhifyn-10.pdf>

³ PPW10 (paragraff 5.10.14): <https://llyw.cymru/sites/default/files/publications/2018-12/polisi-cynllunio-cymru-rhifyn-10.pdf>

⁴ PPW10 (paragraff 5.10.11): <https://llyw.cymru/sites/default/files/publications/2018-12/polisi-cynllunio-cymru-rhifyn-10.pdf>

⁵ PPW10 (paragraff 5.10.11): <https://llyw.cymru/sites/default/files/publications/2018-12/polisi-cynllunio-cymru-rhifyn-10.pdf>

darpariaethau a wnaed ym Mholisiau PC2, EN26 a pholisiau EN eraill, a hefyd PPW10 i amddiffyn yr amgylchedd a'r amwynder.

2.5. Cyd-destun Rhanbarthol

- 2.5.1. Mae Gweithgor Agregau Gogledd Cymru'n cynhyrchu Datganiadau Technegol sy'n dynodi pa lefel o ddarpariaeth agregau y mae angen eu gwneud ym mhob ardal awdurdod lleol. Cyhoeddwyd y Datganiad diwethaf yn 2014 ac mae'n gosod yr angen i Sir y Fflint wneud darpariaeth ychwanegol o 3.84 miliwn tunnell o graig galed ar y cyd â Wrecsam. Dynodir bod angen 1.4 miliwn o ddyraniadau ar gyfer tywod a graean. Dynodir hefyd bod angen dyraniadau mewn mannau eraill yn y rhanbarth a'r isranbarth, gan gynnwys Sir Ddinbych. Bydd methu â bodloni'r diffyg hwn mewn awdurdodau eraill yn rhoi pwysau cynyddol ar safleoedd presennol a allai gynyddu cyfradd defnyddio'r cronfeydd a ganiateir ac o ganlyniad, cynyddu'r angen yn Sir y Fflint. Hyd yma, ni roddwyd unrhyw ganiatâd yn Sir Ddinbych ond mae hwn yn fater y byddai angen i Sir Ddinbych ddelio ag ef fel rhan o'r adolygiad o'i CDLI. Disgwylir cyhoeddi adolygiad pellach o'r Datganiad Technegol Rhanbarthol yn 2020 a bydd angen ei ystyried trwy'r broses CDLI ac unrhyw adolygiadau o'r CDLI.

2.6. Cyd-destun Lleol

- 2.6.1. Mae'r Strategaeth Ddewisol yn esbonio i ble mae'r twf yn cael ei gyfeirio a pham. Mae mwynau'n un ystyriaeth ochr yn ochr â nifer fawr o rai eraill y bu'n rhaid i'r CDLI eu cydbwysu wrth benderfynu ar leoliad y twf. Caiff twf ei grynodi yn y prif ganolfannau gwasanaeth: Treffynnon, Y Fflint, Shotton, Cei Connah, Queensferry, Saltney, Yr Wyddgrug a Bwcle gyda chanolfannau gwasanaeth lleol yn darparu lefelau darpariaeth gymedrol, twf mwy cyfyngedig mewn pentrefi cynaliadwy a mewnlenni a thau fforddiadwy i anghenion lleol mewn pentrefi heb eu diffinio.
- 2.6.2. Mae gan Sir y Fflint hanes hir o weithio mwynau sy'n mynd yn ôl cannoedd o flynyddoedd. Mae nifer fawr o orchmynion gwahardd wedi'u cyflwyno yn y Sir sydd wedi cael gwared ar hen ganiatadau mwynau ac sydd bellach wedi'u cadarnhau gan Lywodraeth Cymru, yn ôl y manylion yn Nhabl 1. Ceir nifer o safleoedd anweithredol neu segur⁶ yn y Sir sydd, yn unol â Pholisi Cynllunio Cymru, yn destun strategaeth addas a, lle bo angen, polisiau i esbonio cynigion ar gyfer y tir i'r dyfodol. Mae Tabl 2 yn darparu trosolwg o safleoedd presennol a safleoedd sydd wedi stopio gweithio yn ystod oes yr CDU.

Tabl 1: Rhestr o Safleoedd Gwahardd

⁶ Diffinnir Safle Segur gan Ddeddf yr Amgylchedd 1995 fel safle Cam I neu Gam II mewn, ar neu o dan lle na chynhaliwyd unrhyw ddatblygiad mwynau i unrhyw raddau sylweddol unrhyw bryd yn y cyfnod yn dechrau ar 22 Chwefror 1982 ac yn dod i ben ar 6 Mehefin 1995 heblaw yn rhinwedd caniatâd cynllunio nad yw'n ganiatâd cynllunio perthnasol yn ymwneud â'r safle.

Safle	Lleoliad	Safle	Lleoliad
Coed Issa	Llanfynydd	Crowndale	Llanfynydd
Bryn Farm	Ffrith	Bryn Yorkin	Caergwrle
Victoria	Gronant	Mynydd Du	Treuddyn
Garreg Boet	Hendre	Park	Afonwen
Pen y Fron	Gwernaffield	Olwyn Goch	Hendre
Pen y Gelli	Lloc	Afonwen	Afonwen
Plas Winter	Halkyn	Cefn Ucha	Cilcain
Cae Rhug	Gwernaffield	Bryn Gwyn	Gwernymynydd
Hendre Spar	Cilcain	Cae Rheinall	Llanfynydd

Tabl 2: Safleoedd Mwynol yn Sir y Fflint

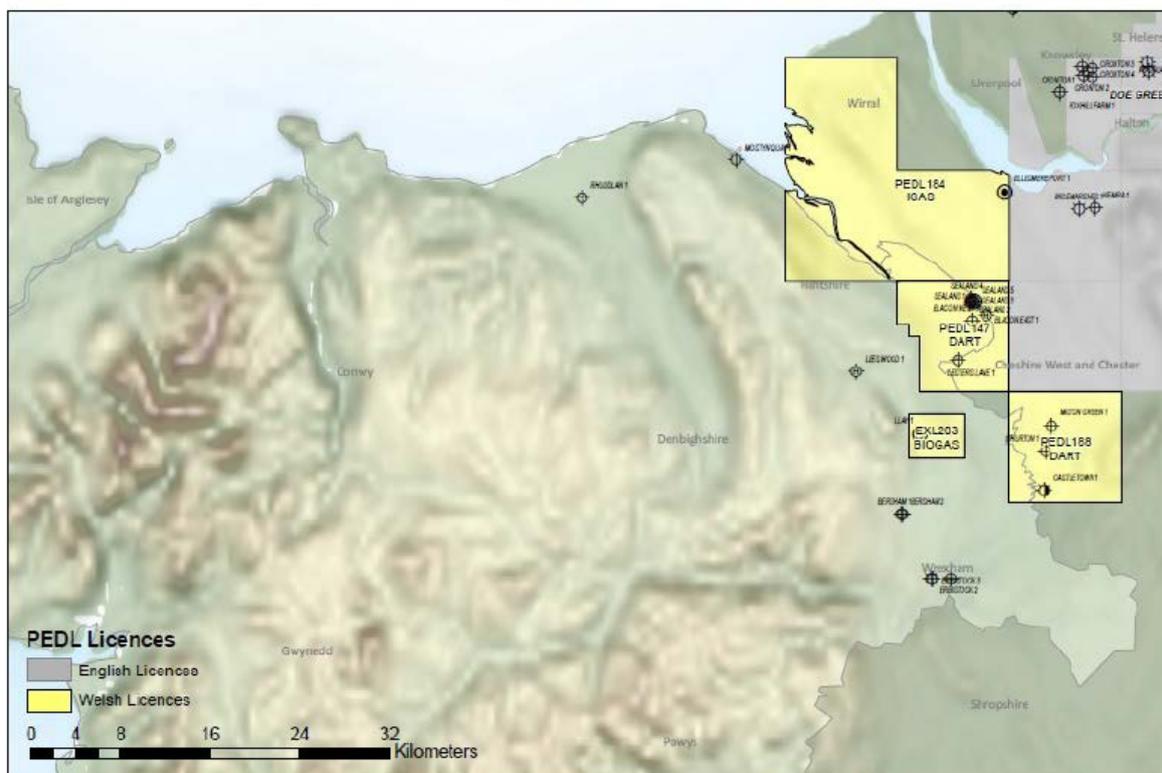
Enw'r Safle	Math o Fwyn	Gweithredwr	Statws	Dyddiad Diwedd Cloddio Mwynau	Sylwadau
Calchfaen					
Aberdo/Bryn Mawr	Calchfaen/ Cornfaen	CCP Building Products Ltd	Gweithredol	Chwefror 2042	Mae'r safle newydd gael perchennog newydd. Mae'n cael ei weithio ar hyn o bryd i gynhyrchu calchfaen a chornfaen.
Cefn Mawr	Calchfaen	Hanson	Gweithredol	Chwefror 2042	Mae'r safle'n cael ei weithio i gynhyrchu calchfaen i'w ddefnyddio mewn olyn sment yn Paedwood. Caiff deunydd o ansawdd mwy gwael ei weithio hefyd i gynhyrchu agreg.
Grange	Calchfaen		Segur	Chwefror 2042	Nid yw'r safle wedi'i weithio ers y 1970au. Nid yw'r perchennog wedi dangos unrhyw fwriad i weithio'r safle.
Hendre	Calchfaen	Tarmac	Gweithredol	Rhagfyr 2020	Mae'r safle'n gynhyrchwr calchfaen arwyddocaol
Pant y Pwll Dŵr	Calchfaen	Cemex	Gweithredol	Chwefror 2042	Mae'r safle'n gynhyrchwr calchfaen arwyddocaol
Pant	Calchfaen	Tarmac	Gweithredol	Ebrill 2025	Nid yw'r mwyn wedi'i gloddio yn y safle ers nifer o flynyddoedd. Datganwyd materion sefydlogrwydd.
Pen yr Henblas, Pen-y-Garreg a Bryn Blewog	Calchfaen	Grosvenor Estate	Anweithredol	Chwefror 2042	Nid yw'r safle(oedd) wedi gweithio ers 1996.
Trimm Rock	Calchfaen	Hanson	Mewn ôl-ofal estynedig a sicrhawyd gan	Awst 2012	Mae cloddio mwynau yn y safle bellach wedi dod i ben a gwaith adfer ac ôl-ofal sylweddol wedi'i gwblhau (Awst 2019). Mae'r safle bellach mewn ôl-ofal estynedig a orfodwyd gan gytundeb cyfreithiol adran 106 ar gyfer

			gytundeb adran 106		plannu coed (tan fis Awst 2024) a rheoli Coetir Coed Ddu gerllaw (tan fis Awst 2021)
Clai/Siâl					
Liverpool Road/Catheralls	Clai/Siâl	Hanson	Segur	Chwefror 2042	Mae'r safle'n anweithredol ac yn destun Adolygiad o Hen Ganiatadau Mwynau (ROMP) segur sy'n gysylltiedig â Chwarel Parry. Rhoddwyd y safle gerbron i'w gynnwys yn yr CDLI ar gyfer tai.
Chwarel Parry	Clai/Siâl	Mold Investments Ltd	Caniatâd mewnlenwi cyfredol	Ionawr 2034	Mae'r safle'n destun ROMP segur sy'n gysylltiedig â Liverpool Road/Catheralls.
Pinfold Lane	Clai/Siâl	Brock Plc	Anweithredol	Chwefror 2042	Ni chydymffurfiodd y gweithredwr gyda chais am ragor o wybodaeth mewn perthynas â chais ROMP ac ystyrir ei fod bellach wedi darfod.
Stoney Beach	Clai/Siâl	Brock Plc	Anweithredol	Chwefror 2042	Rhoddwyd caniatâd cynllunio ar gyfer cyfleuster gwastraff yn y chwarel sy'n destun Adran 106 sy'n atal cloddio am fwynau.
Ruby	Siâl	DP Williams	Segur	31 Rhagfyr 2021 Collwyd adolygiad cyfnodol	Nid yw'r safle wedi'i weithio ers nifer o flynyddoedd ac mae wedi aildyfu'n naturiol.
Tywod a Graean					
Ddol Uchaf	Tywod a Graean	Breedon	Segur	Chwefror 2042	Nid yw'r safle wedi'i weithio ers nifer o flynyddoedd, ond mae'r perchnogion wedi dynodi bwriad i ailgychwyn yn y dyfodol ac mae'r safle'n destun dyraniad yn yr CDLI.
Fron Haul	Tywod a Graean	Breedon	Gweithredol	21 Chwefror 2042	Caiff tywod a gloddiwyd ym Maes Mynan ei brosesu yn Fron Haul. Mae cronfeydd yn weddill yn y safle a fydd yn cael eu gweithio ar ôl i Faes Mynan gael ei gwblhau.

Sandy Lane Farm, Kinnerton	Tywod a Graean	T Cannon and Sons	Gweithredol	Rhagfyr 2022	Mae'r safle wrthi'n cynhyrchu tywod ond yn gweithredu'n ad hoc ac yn debygol o ofyn am estyniad amser pellach.
Maes Mynan	Tywod a Graean	Breedon	Gweithredol	Mai 2023	Mae'r safle wrthi'n cynhyrchu tywod concritio.

Ffigur 2:

Onshore PEDL Licences in North Wales



3. Cynllun Datblygu Unedol

3.1. Mae'r Cynllun Datblygu Unedol (CDU) yn cynnwys nifer o bolisiau'n ymwneud â mwynau. Mae'r polisiau hyn wedi'u hadolygu a thrafodir eu perthnasedd ar gyfer yr CDLI yn Nhabl 3 isod.

Tabl 3: Ystyried polisiau'r CDU ar gyfer yr CDLI

Polisi	Sylw	Argymhelliad ar gyfer yr CDLI
MIN 1 Arwain Datblygiad Mwynau	Mae'n cadarnhau ffafriaeth i ddefnyddio agregau eilaidd a deunyddiau wedi'u hailgylchu a ffafriaeth i ddyfnhau neu wneud estyniad ochrol o waith presennol.	Ers mabwysiadu'r CDU, mae'r angen am craig wedi'i malu a thywod a graean yn y Sir wedi'i dynodi. Felly, bydd angen gwneud dyraniadau penodol yn yr CDLI ar gyfer craig wedi'i malu a thywod a graean.
MIN 2 Datblygu Mwynau	Yn darparu rhywfaint o bolisi seiliedig ar feini prawf gofodol y byddai cais am gloddio'n cael ei ystyried yn ei erbyn.	Fel uchod, bydd angen gwneud dyraniadau ar gyfer cloddio craig wedi'i malu a thywod a graean. Bydd angen meini prawf o hyd y gellir asesu cynigion yn eu herbyn, os bydd cais yn dod gerbron y tu allan i safle dynodedig.

MIN3 Gweithrediadau Rheoli Mwynau	Yn darparu meini prawf ychwanegol y byddai cloddio mwynau'n cael ei ystyried yn eu herbyn.	Bydd angen meini prawf o hyd y bydd cynigion ar gyfer cloddio mwynau'n cael eu hasesu yn eu herbyn.
MIN4 Adfer ac Ôl-ofal	Yn sicrhau adferiad ac ôl-ofal mewn datblygiad mwynau. Nid yw'n pennu beth y gallai ôl-ofal priodol fod.	Bydd angen sicrhau adferiad o hyd, ond nid oes angen i hyn fod yn bolisi ar ei ben ei hun a dylai ddynodi ôl-ddefnyddiau addas ar gyfer y safleoedd.
MIN5 Safleoedd Segur, Anweithredol a Gorchymyn Datblygu Dros Dro	Yn cadarnhau bwriad yr Awdurdod Cynllunio Lleol i sicrhau bod y safleoedd hynny'n bodloni safonau cynllunio modern yn eu gweithriad a'u hadferiad.	Mae PPW yn gofyn bod CDLlau yn nodi strategaeth ar gyfer safleoedd sy'n segur neu'n annhebygol o gael eu gweithio eto. Byddai'r polisi ond yn angenrheidiol le mae'r Awdurdod Cynllunio Lleol yn ceisio sicrhau defnydd diwedd penodol ar gyfer safle. Oni mai dyma'r achos, ystyriwch gadarnhau'r bwriad i gyhoeddi bod gorchmynion gwahardd yn ddigonol.
MIN6 Adolygu Caniatadau Mwynol	Yn cadarnhau'r bwriad i gyhoeddi gorchmynion gwahardd.	Fel uchod. Ceir rhywfaint o ddyblygu rhwng y ddau bolisi.
MIN7 Archwilio am Fwynau	Yn cadarnhau cefnogaeth yr Awdurdod Cynllunio Lleol ar gyfer datblygiad archwiliadol.	Ystyriwch fod y polisi hwn yn ddiangen. Lle nad yw archwilio mwynol yn ddatblygiad a ganiateir a bod angen caniatâd cynllunio arno, gellir ei ystyried yn erbyn polisi mwynol cyffredinol a pholisïau eraill yr CDLI.
MIN8 Diogelu Buddiannau Mwynol	Yn diogelu craig wedi'i malu a thywod a graean.	Ers mabwysiadu'r CDU, mae'r BGS wedi cyhoeddi Map Diogelu Agregau Cymru a fydd yn cael ei adolygu a'r dull diogelu'n cael ei ddiwygio'n unol â hynny.
MIN9 Pyllau Benthyc	Mae'r polisi'n cadarnhau cefnogaeth i byllau benthyc lle mae budd amgylcheddol amlwg.	Mae'r polisi hwn yn ailadrodd polisi cenedlaethol.
MIN10 Parthau Clustogi Mwynol	Mae'r polisi'n berthnasol i glustogau o gwmpas safleoedd mwynol yn unol ag MTAN 1.	Bydd angen i'r parthau clustogi gael eu diwygio yng ngoleuni cau ac adferiad dilynol nifer o chwareli.

4. Strategaeth Ddewisol

- 4.1.1. Mae'r Strategaeth Ddewisol yn gosod y polisi strategol ar gyfer mwynau ym Mholisi Strategol STR16. Mae'r Polisi'n gosod y bwriad i ddiogelu mwynau rhag sterileiddio diangen; lleihau gwrthdaro trwy ddefnyddio parthau clustogi; cyfrannu tuag at gyflenwad rhanbarthol ar y cyd â Wrecsam; nodi'r ardaloedd hynny lle na fyddai cloddio mwynau'n dderbyniol; lleihau effaith cloddio mwynau ar gymunedau a'r amgylchedd; sicrhau adferiad priodol a mwyhau'r defnydd o agregau eilaidd ac wedi'u hailgylchu.

Ffigur 3: Polisi Mwynau Strategol

STR16: Cynllunio Strategol ar gyfer Mwynau	
Bydd adnoddau mwynol pwysig Sir y Fflint yn cael eu rheoli'n gynaliadwy trwy:	
i.	Ddiogelu mwynau rhag sterileiddio diangen trwy gyfeirio datblygiadau newydd i ffwrdd o ardaloedd lle mae mwynau o bwysigrwydd economaidd oddi tanynt neu, lle nad yw hyn yn bosibl, trwy ofyn am gloddio o flaen llaw;
ii.	Lleihau'r gwrthdaro rhwng datblygu mwynau a datblygu sensitif trwy ddefnyddio parthau clustogi;
iii.	Cyfrannu tuag at gyflenwad rhanbarthol mwynau trwy ddyrannu 1.4 miliwn tonnell fetrig o dywod a graean a 3.84 miliwn tonnell fetrig o graig wedi'i malu trwy ymestyn y chwareli presennol, ar y cyd â Chyngor Bwrdeistref Sirol Wrecsam;
iv.	Sicrhau y caiff cloddio mwynau newydd eu lleoli er mwyn lleihau'r effeithiau ar gymunedau a'r amgylchedd;
v.	Sicrhau adferiad priodol a all gyflawni buddiannau amgylcheddol a chymunedol penodol;
vi.	Mwyhau'r defnydd o agregau eilaidd ac wedi'u hailgylchu.

- 4.1.2. Yn ystod yr ymgynghoriad ar y Strategaeth Ddewisol, gwnaed nifer o sylwadau gan yr ymgynghoreion mewn perthynas â'r dull o droi at fwynau. At ei gilydd, roedd y sylwadau a godwyd yn ymwneud â'r ffaith fod y polisi'n strategol ac nid ystyriwyd ei fod yn ddigon manwl. I'w nodi'n benodol, fodd bynnag, oedd y ffaith na chafwyd unrhyw wrthwynebiad mewn perthynas â'r dull cydweithredol a gynigiwyd rhwng Sir y Fflint a Wrecsam mewn perthynas â chraig wedi'i malu. Amlygwyd yr angen i ddyrannu safleoedd, fel ag y gwnaed â'r risgiau wrth ddibynnu ar nifer fach o safleoedd i fodloni anghenion dynodedig.
- 4.1.3. Ar adeg ysgrifennu'r adroddiad, roedd Wrecsam wedi bod trwy ei gam Ymgynghoriad Adneuo. Mae'r ddogfen Adneuo hefyd yn cynnig cyfrannu tuag at gyflenwad rhanbarthol mwynau trwy gydweithredu â Sir y Fflint. Cafodd y dull hwn ei gytuno hefyd yng Ngrwpiau Llywio Aelodau'r Cynllun Datblygu Lleol priodol cyn ymgynghori a lluniwyd Datganiad Tir Cyffredin i gefnogi Astudiaeth Gyhoeddus o CDLI Cyngor Bwrdeistref Sirol Wrecsam.

Ffigur 4: Polisi Mwynau Strategol Wrecsam**Policy SP17: Minerals Supply and Safeguarding**

Minerals will be sustainably managed through:

- a. The protection of minerals from unnecessary sterilisation by directing new development away from areas underlain by mineral of importance or where this is not possible, through the requirement to extract mineral prior to the non-mineral development; and
- b. Avoiding conflict between mineral working and sensitive development through the use of buffer zones; and
- c. Contributing towards meeting the regional need for aggregate minerals in collaboration with Flintshire County Council; and
- d. Supporting proposals for mineral extraction within the County Borough which contribute towards maintaining an adequate supply of minerals in sustainable locations including the delivery of high quality restoration and aftercare programmes which enhance and provide linkages with the natural environment.

Polisi SP17: Cyflenwi a Diogelu Mwynau

Bydd mwynau'n cael eu rheoli'n gynaliadwy trwy:

- a. Ddiogelu mwynau rhag sterileiddio diangen trwy gyfeirio datblygiadau newydd i ffwrdd o ardaloedd lle mae mwynau o bwysigrwydd oddi tanynt neu, lle nad yw hyn yn bosibl, trwy ofyn am gloddio mwynau cyn datblygu heb fod yn fwynol; ac
- b. Osgoi gwrthdaro rhwng gweithio mwynau a datblygu sensitif trwy ddefnyddio parthau clustogi;
- c. Cyfrannu tuag at fodloni'r angen rhanbarthol am fwynau agregau ar y cyd â Chyngor Sir y Fflint; a
- d. Chefnogi cynigion i gloddio mwynau yn y Fwrdeistref Sirol sy'n cyfrannu tuag at gynnal cyflenwad digonol o fwynau mewn mannau cynaliadwy gan gynnwys cyflwyno rhaglenni adfer ac ôl-ofal ansawdd uchel sy'n gwella ac yn darparu cysylltiadau â'r amgylchedd naturiol.

5. Diogelu**5.1. Cyflwyniad**

- 5.1.1. Mae PPW10, paragraff 5.14.7 yn gosod y gofyniad i'r Cynlluniau Datblygu Lleol ddiogelu mwynau trwy ddiogelu adnoddau mwynol rhag mathau eraill o ddatblygu a fyddai naill ai'n eu sterileiddio neu'n rhwystro cloddio mwynol. Rhoddwyd ystyriaeth yn bennaf i fwynau sy'n cael eu gweithio ar yr wyneb gan y byddai'r rhain yn cael eu heffeithio mwyaf gan ddatblygiadau heb fod yn fwynol. Felly, nid yw mwynau sydd wedi'u gweithio'n ddwfn, fel ambell i lo ac olew a nwy anghonfensiynol, wedi'u hystyried ymhellach fel rhan o'r broses ddiogelu. Mae'r ffynonellau data a ddefnyddiwyd yn cynnwys mapiau adnoddau mwynau Arolwg Daearegol Prydain (BGS) sy'n dangos, ar lefel strategol, y dosbarthiad mwynau ar draws y Sir a Map Diogelu Agregau BGS. Mae'r Awdurdod Glo yn cyhoeddi mapiau sy'n dangos bod ardaloedd mewn perygl o gloddio blaenorol wedi'u defnyddio hefyd. Manteisiwyd ar Faes Glo Sir y Fflint am ganrifoedd a gadawodd etifeddiaeth y mae angen ei hystyried hefyd yn ystod y datblygiad. Ceir etifeddiaeth o gloddio plwm a ffynhonnau durol tanddaearol mewn ardaloedd mawr o'r Sir y mae calchfaen carbonifferaidd oddi tanynt.
- 5.1.2. Ceir dwy agwedd i ddiogelu:
 - i. Gwerthuso a dull polisi o droi at safleoedd a fyddai'n cael eu dynodi trwy'r CDLI; a
 - ii. Nodi ardaloedd a fyddai'n cael eu diogelu trwy'r CDLI.

5.2. Asesu Dyranïadau'r holl ddatblygiadau yn yr CDLI:

- 5.2.1. Cynhaliwyd adolygiad o'r holl safleoedd ymgeisiol i gadarnhau:
- Ydy safle gyda mwynau oddi tano o bwysigrwydd economaidd;
 - A fyddai datblygiad safle'n effeithio ar adnodd gerllaw'r safle;
 - Beth fyddai hyd a lled unrhyw effaith sterileiddio; ac
 - Ydy cloddio o flaen llaw yn debygol o fod yn ymarferol.
- 5.2.2. Cynhaliwyd adolygiad cychwynnol o safleoedd ymgeisiol yn 2015 (gweler Atodiad 1) a ddynododd bod mwynau arwyneb o bwysigrwydd economaidd o dan fwyafrif y safleoedd a roddwyd gerbron. Defnyddiwyd system goleuadau traffig i grwpio safleoedd yn eang i:
- i. Ddim un mwyn o bwysigrwydd economaidd, lle nad yw mwynau'n berthnasol (gwyn).
 - ii. Ni fyddai datblygiad y safle'n cyfaddawdu amcanion diogelu cenedlaethol oherwydd, er enghraifft, bod y safle naill ai eisoes wedi'i sterileiddio yn rhinwedd datblygiadau sensitif presennol neu fod y mwyn o lai o bwysigrwydd strategol (gwyrd).
 - iii. Gallai datblygiad y safle gyfaddawdu amcanion diogelu cenedlaethol. Dylid ystyried yn ofalus yr angen i ddatblygu yn erbyn yr angen i ddiogelu'r adnodd (oren).
 - iv. Bydd datblygiad y safle'n arwain at golli mwyn pwysig. Dylid ond ystyried datblygiad y safle hwn lle gellir cyfiawnhau datblygiad y safle yn llawn neu dylid dangos nad oes mwyn o bwysigrwydd economaidd trwy ymchwiliad safle (coch).
- 5.2.3. Yn ystod yr hidlad cyntaf o safleoedd (Atodiad 1), nodwyd bod gan ryw 68% o'r safleoedd a roddwyd gerbron fwynau o bwysigrwydd economaidd oddi tanynt. O'r rhain, cafodd rhyw 4% eu grwpio'n safleoedd coch. Mae mwyafrif helaeth y safleoedd hynny sydd â mwynau oddi tanynt eisoes wedi'u sterileiddio i raddau amrywiol gan ddatblygiadau heb fod yn fwynol a glo fyddai'r mwyn yr effeithir mwyaf arno, gan gynnwys glo crai. Cynhaliwyd yr asesiad cyn cyhoeddi PPW10 nad yw bellach yn gofyn i awdurdodau cynllunio lleol ddiogelu glo.⁷
- 5.2.4. Mae'r holl safleoedd a roddwyd gerbron i'w cynnwys yn yr CDLI, naill ar y Cam Safleoedd Ymgeisiol neu'r Cam Safleoedd Amgen wedi'u hasesu, nid dim ond mewn perthynas â mwynau ond yn erbyn amrywiaeth o ystyriaethau materol eraill. Aseswyd y safleoedd yr ystyriwyd eu bod yn addas i'w dyrannu yn y cynllun adneuo yn fanylach ac maen nhw wedi helpu llywio'r polisi diogelu ei hun. Strategaeth gyffredinol yr CDLI fu dyrannu safleoedd mewn neu'n agos at aneddiadau sy'n bodoli. Mae hyn yn helpu lleihau colli mwynau trwy ddatblygiad procsimol ond hefyd yn gostwng y cyfleoedd am gloddio o flaen llaw oherwydd yr angen i gadw pellteroedd addas rhwng datblygiadau sensitif presennol ac

⁷ PPW10 (paragraff 5.10.17): <https://llyw.cymru/sites/default/files/publications/2018-12/polisi-cynllunio-cymru-rhifyn-10.pdf>

ardaloedd cloddio a hefyd yr angen i sicrhau plattform datblygu addas yn dilyn unrhyw gloddio o flaen llaw. Mae'r dull hwn yn gyson hefyd â'r dilyniant chwilio ar gyfer clustnodi safleoedd a ddynodwyd mewn polisi cynllunio cenedlaethol⁸.

- 5.2.5. At ei gilydd, nid ystyriwyd bod cloddio o flaen llaw yn briodol ar safleoedd sy'n llai na 4ha, gweler Atodiad 2 (Adolygu dyraniadau), gan ystyried dosbarthiad y mwyn dan sylw a lleoliad y datblygiad sensitif. Mae mwyafrif y safleoedd llai o faint sydd â mwynau oddi tanynt eisoes wedi'u sterileiddio gan ddatblygiad procsimol a byddai cyfyngiad ar unrhyw sterileiddio pellach. Lle mae glo crai o dan safleoedd a'u bod mewn ardaloedd y dynodwyd eu bod mewn risg uchel o hen weithgareddau mwyngloddio glo, ystyrir mai'r prif amcan ddylai fod i fynd i'r afael ag unrhyw faterion sefydlogrwydd yn hytrach na chloddio o flaen llaw, ond gallai sefydlogrwydd gael ei sicrhau trwy gloddio o flaen llaw. Gan fod PPW10 yn datgan nad oes angen diogelu glo bellach, nid yw Polisi EN23 yn gofyn am gyflwyno asesiad cloddio o flaen llaw ar gyfer safleoedd gyda glo oddi tanynt. Byddai'r gofyniad i ddatblygwyr fynd i'r afael â'r risgiau sy'n codi o hen fwyngloddio glo ym Mholisi DM1 yn sicrhau cloddio o flaen llaw ar safleoedd gyda glo oddi tanynt lle bo hynny'n ffordd briodol o adfer.
- 5.2.6. Cynhaliwyd asesiad i fesur pa arwynebedd o dir cymharol ddigyfyngiad sydd â mwynau agregau Categori 1 yn weddill oddi tanynt yn y Sir. Mae hyn yn cynorthwyo dealltwriaeth o ran pa effaith y mae'r CDLI yn debygol o gael o ran colli mwynau'n uniongyrchol o ganlyniad i sterileiddio. Er bod dyddodion sylweddol o fwynau pwysig o dan dir Sir y Fflint, mae ardaloedd mawr eisoes wedi'u sterileiddio gan ddatblygiadau heb fod yn fwynol neu ni fyddent yn addas i'w cloddio oherwydd cyfyngiadau fel AHNE, dynodiadau ecolegol ac yn y blaen. Mae'r ardaloedd cymharol ddigyfyngiad yn cynnwys y tir y tu allan i ffiniau'r aneddiadau a safleoedd a ddynodwyd yn genedlaethol ac yn rhyngwladol. Mae'r asesiad a gynhaliwyd yn cadarnhau pa fwynau sy'n weddill o dan yr arwynebedd tir ar ôl i aneddiadau a chyfyngiadau sylweddol gael eu tynnu ymaith a pha arwynebedd fydd yn cael ei cholli o ganlyniad i symud dyraniadau CDLI ymlaen. Gweler Tabl 4 isod.
- 5.2.7. Nid yw'r asesiad a gynhaliwyd yn Nhabl 4 yn ystyried dyfnder na thrwch y mwyn; na lleoliad yr anheddau neu'r ffyrdd ynysig.

Tabl 4: Asesu mwyn digyfyngiad ac arwynebedd a gollwyd i ddyraniadau CDLI

Mwyn	Ardal y tu allan i aneddiadau a safleoedd dynodedig (ha)	Arwynebedd bras a gollir o ganlyniad i ddyraniadau CDLI (ha)	Colled uniongyrchol fel %
Tywod a Graean	9.158	39.35	0.43

⁸ PPW10 (Paragraffau 3.37 – 3.38) : <https://llyw.cymru/sites/default/files/publications/2018-12/polisi-cynllunio-cymru-rhifyn-10.pdf>

Calchfaen	9.878	0.32	0.003
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- 5.2.8. Gellir sicrhau lliniaru trwy ofyn am gloddio o flaen llaw, ond mae'n hanfodol bod y datblygiad heb fod yn fwynol ei hun yn dderbyniol o ran tirwedd ac nad oes problemau eraill yn cael eu creu trwy ostwng y tir, fel draenio a risg o lifogydd. Gallai rhywfaint o fewnforio deunydd anweithredol helpu i gyflawni plattform datblygu priodol, ond mae argaeledd gwastraff anweithredol yn amrywio gydag amser ac mae'r gwastraff gwirioneddol sy'n cael ei waredu arno mewn safleoedd tirlenwi anweithredol yng Ngogledd Cymru yn gyfyngedig iawn o ran y tunelledd cyffredinol a gynhyrchir⁹. Argymhellir felly bod y potensial am gloddio o flaen llaw yn cael ei ystyried yn gynnar er mwyn iddo allu cael ei ymgorffori yn y datblygiad cyffredinol.
- 5.2.9. Mae'r golled tywod a graean fel cyfran o'r tywod a graean cyffredinol yn y Sir yn gymharol fach a byddai'n llai na 1% o'r cyfanswm adnoddau sydd ar gael y tu allan i aneddiadau a safleoedd a gyfyngir gan ddynodiadau cenedlaethol a rhyngwladol. Nid yw tywod a graean yn cael ei ddynodi'n fwyn sy'n brin ar raddfa genedlaethol ond oherwydd ei ddsbarthiad, mae'n cael ei sterileiddio'n fwyfwy gan ddatblygiadau heb fod yn fwynol. Mae dosbarthiad tywod a graean ar draws y rhanbarth yn fwy cyfyngedig mewn mannau eraill, ond ceir dyddodion o arwyddocâd masnachol o bosibl yng ngorllewin Gwynedd a Wrecsam. Mae gan Swydd Gaer hefyd ddyddodion arwyddocaol ac mae'n gyflenwr tywod a graean pwysig i Ogledd Orllewin Lloegr.
- 5.2.10. Ni all yr asesiad a gynhaliwyd ystyried ffactorau fel dyfnder, lefel y baich, ansawdd (er enghraifft, mae cloddio tywod a graean masnachol yn cynnwys gronynnau cyfoethog mewn silica, e.e. cwarts, cwartsit a fflint) a maint gronynnau (h.y. faint o dywod mân, tywod bras a graean sydd). Mae hyn yn golygu bod yr amcangyfrifon o fwynau sydd ar gael yn debygol o orddatgan yn sylweddol beth yw mwyn masnachol ymarferol mewn gwirionedd, yn enwedig o ystyried y gofyniad am barthau clustogi a thir iawndal. Er y derbynnir y bydd mwynau'n cael eu colli o ganlyniad i gyflwyno dyraniadau yn yr CDLI, mae hyn yn cynyddu pwysigrwydd diogelu adnoddau mwynol y tu allan i safleoedd presennol a dynodedig.

3.1 Nodi ardaloedd y dylid eu diogelu:

- 5.2.11. Mae amryw o wahanol fwynau o bwysigrwydd economaidd o dan dir Sir y Fflint sy'n cynnwys tywod a graean, calchfeini, tywodfaen, clai a mwynau metelog. Byddai diogelu'r holl fwynau o dan Sir y Fflint yn arwain at ddiogelu ardaloedd helaeth o'r Sir ac ystyrir bod hynny'n ddiangen ac o bosibl yn wrthgynhyrchiol. Mae Tabl 5 yn nodi'r rhesymeg ar gyfer diogelu gwahanol fwynau.

⁹ Adroddiad Monitro Cynllunio Gwastraff Gogledd Cymru Ebrill 2016 - <https://lyw.cymru/adroddiad-monitro-cynllunio-gwastraff-gogledd-cymru-ebriill-2016>

Agregau

- 5.2.12. Mae'r BGS wedi cyhoeddi map diogelu cenedlaethol ar gyfer Cymru, ac er nad yw'n bolisi, mae Llywodraeth Cymru'n ystyried ei fod yn darparu sail dystiolaeth allweddol i baratoi'r Cynllun Datblygu Lleol. Mae'r map yn nodi Ardaloedd Diogelu Agregau ac yn gwahaniaethu rhwng gwahanol gategoriâu o fwynau agregau:
- **Categori 1:** Yr adnoddau sydd o bwysigrwydd cenedlaethol yng Nghymru, er enghraifft tywod a graean (afonol-rhewlifol a cherlan), calchfaen purdeb uchel ac agreg manyleb uchel;
 - **Categori 2:** Yr adnoddau yr ystyrir eu bod o bwysigrwydd mwy lleol ac y gallai fod ganddynt rywfaint o arwyddocâd rhanbarthol, er enghraifft tywod a graean is-waddodol, tywodfaen a thywodfaen gyda'r potensial am dywod silica a chraig silica; creigiau tanllyd, calchfaen (nid o burdeb uchel) a llechi; a
 - **Categori 3:** Nid yw'r adnoddau hyn wedi'u nodi ar y mapiau ond hwyrach eu bod yn cael eu gweithio'n lleol.
- 5.2.13. Argymhellir bod yr holl adnoddau Categori 1 yn cael eu diogelu ac eithrio tywodfaen oherwydd ei ddsbarthiad cyfyngedig iawn yn Sir y Fflint, mewn ardal gyda phwysau datblygu cyfyngedig iawn. Nid yw adnoddau Categori 2 wedi'u diogelu oherwydd argaeledd helaeth mwynau ansawdd uwch mewn mannau eraill neu ddiffyg galw. Adlewyrchir y dull hwn yn y mapiau cynigion sy'n cyd-fynd â'r CDLI adneuo.

Mwynau Heb fod Yn Agregau

- 5.2.14. Mae BGS hefyd wedi cyhoeddi Map Adnoddau Mwynau o Gymru sy'n dangos dosbarthiad ystod o fwynau, gan gynnwys agregau, mwynau diwydiannol ac ynni. Nid yw ardaloedd gyda glo crai ac eilaidd oddi tanynt wedi'u cynnwys yn yr ardaloedd diogelu oherwydd y dull polisi diwygiedig a gymerwyd yn PPW10 mewn perthynas â diogelu glo. Mae ardaloedd a ddynodwyd yn genedlaethol ac yn rhyngwladol wedi'u tynnu ymaith, yn ogystal ag aneddiadau. O gofio dosbarthiad cyfyngedig clai digyfyngiad yn y Sir, argymhellir nad clai wedi'i ddiogelu mohono yn yr CDLI.

Tabl 5: Rhesymeg Diogelu

Mwyn	Trafodaeth	Casgliad
Calchfaen	Ceir brigiad helaeth o galchfaen purdeb uchel yn Sir y Fflint sy'n ymestyn o Axton yn y gogledd i Cadole yn y de a thu hwnt. Yn wahanol i awdurdodau eraill yn yr ardal hon, mae llawer o'r brigiad hwn heb ei effeithio gan ddynodiad AHNE. Ceir calchfeini ansawdd mwy gwael sy'n cael eu manteisio arnynt yn Sir y Fflint ar hyn o bryd ac y deellir bod calchfaen purdeb uchel oddi tanynt. Argymhellir felly bod yr holl galchfaen yn cael ei diogelu yn yr CDLI.	Bydd yr holl ddyddodion calchfaen yn cael eu diogelu yn yr CDLI
Tywod a Graean	Ceir dyddodion o dywod a graean ansawdd uchel, yn enwedig o gwmpas yr Wyddgrug a Dyffryn Chwiler, ac ar eu hyd mae nifer o ganiatadau mewn bodolaeth. Ceir digwyddiadau cyfyngedig iawn o ddyddodion tywod a graean ansawdd mwy gwael o fewn y Sir sy'n cyd-daro i raddau helaeth gyda gorlifdir C2. O gofio'r dosbarthiad tywod a graean, argymhellir bod yr CDLI yn canolbwyntio ar dywod a graean Categori 1 trwy ei bolisi diogelu.	Bydd dyddodion tywod a graean afonol-rhewlifol a cherlan yn cael eu diogelu yn yr CDLI.
Glo	Ceir dyddodion helaeth o lo crai yn Sir y Fflint, ond mae ardaloedd sylweddol eisoes wedi'u sterileiddio gan ddatblygiadau heb fod yn fwynol. Mae MTAN2 yn gofyn bod glo crai ac eilaidd yn cael ei ddiogelu. Fodd bynnag, nid yw Polisi Cynllunio Cymru 10 yn gofyn i lo gael ei ddiogelu. Gan nad oes amgylchiadau penodol gyda Sir y Fflint i warantu'r gwaith o ddiogelu adnoddau glo, nid yw'r Ardal Diogelu Mwynau'n diogelu adnoddau glo.	Nid oes angen i'r glo gael ei ddiogelu trwy'r CDLI.
Mwynau metellog	Cloddiwyd mwyn plwm a sinc yn hanesyddol yn Sir y Fflint. Hwyrach fod gwythiennau mwynol heb eu mapio'n parhau, ond byddai angen rhaglen geoffisegol, geocemegol a drilio helaeth er mwyn dynodi ansawdd a hyd a lled. Mae'r gwaith yn ddwfn dan y ddaear ar y cyfan, ni fyddai datblygiad ar yr wyneb yn sterileiddio'r dyddodion hyn.	Peidio â diogelu o fewn yr CDLI
Craig silica	Grut melinfaen wedi'i ddiraddio'n lleol o burdeb silica uchel yw hwn. Nid yw'n unigryw, ond mae'n parhau i gael ei weithio ger Eryrys. Ychydig wybodaeth sydd o ran ble mae'r graig silica "wedi'i diraddio" yn digwydd ac felly byddai'n rhaid diogelu'r grut melinfaen i gyd, sy'n anghymesur ac yn ddiangen. Mae gorchmynion gwahardd wedi diffodd hen ganiatadau cynllunio, gan awgrymu dim bwriad i weithio, ac felly'n mynegi diffyg galw economaidd.	Peidio â diogelu o fewn yr CDLI
Clai	Mae gan Sir y Fflint hanes o gloddio am glai, gydag ardaloedd o Gleiau Etruria Marl i'w canfod o gwmpas Bwcle, sef clai safon uchel ar gyfer gwneud brics. Mae cloddio am glai wedi dirywio'n sylweddol yng Ngogledd Cymru gyda mwyafrif y chwareli wedi'u gweithio ac/neu eu hadfer. Mae hyd a lled a dosbarthiad y math hwn o glai yn gyfyngedig iawn. O gofio dosbarthiad cyfyngedig y math hwn o glai, argymhellir nad yw'n cael ei ddiogelu yn yr CDLI.	Peidio â diogelu o fewn yr CDLI.
Tywodfaen gyda'r potensial am agreg manyleb uchel	Ceir digwyddiadau ynysig, bach iawn o frigiadau sydd wedi'u lleoli gan mwyafrif ar ochr Sir Ddinbych Bryniau Clwyd ond yn ymestyn i Sir y Fflint. Mae'r dyddodion wedi'u lleoli bron yn gyfan gwbl yn yr AHNE ac felly'n hynod annhebygol o gael eu gweithio byth.	Peidio â diogelu o fewn yr CDLI.

6. Sicrhau Cyflenwad Cynaliadwy o Fwynau

6.1. Cyflwyniad

6.1.1. Mae'r polisi cenedlaethol yn gosod yr angen i gynlluniau datblygu lleol ddarparu cyflenwad digonol o fwynau y gallai fod ar gymdeithas eu hangen nawr ac yn y dyfodol. Er mwyn helpu hwyluso hyn, mae Gweithgor Agregau Rhanbarthol Gogledd Cymru wedi cyhoeddi dogfen Adolygiad 1^{af} y Datganiad Technegol Rhanbarthol (2014) sy'n gosod lefel yr angen am graig wedi'i malu a thywod a graean ar draws y rhanbarth dros gyfnod o 25 mlynedd a 22 flynedd yn y drefn honno. Mae Adolygiad 1^{af} y Datganiad Technegol Rhanbarthol yn nodi gofyniad i glustnodi o leiaf 1.4 miliwn tonnall fetrig o dywod a graean ac o leiaf 3.84 miliwn tonnall fetrig o graig wedi'i malu, a rennir gyda Wreccsam. Mae ail adolygiad bellach yn digwydd ac fe'i trafodir ymhellach ym mharagraff 6.4.31.

6.1.2. Mae PPW10 yn gosod y gofyniad i CDLIau ddarparu arweiniad clir o ran ble mae cloddio mwynau'n debygol o fod yn dderbyniol a chynnwys polisiau sy'n diogelu nodweddion amgylcheddol sensitif ac yn darparu diogelwch amgylcheddol ac adnoddau. Mae cloddio mwynau masnachol yn annhebygol o fod yn dderbyniol mewn aneddiadau neu'n agos atynt ac mae MTAN1 ac MTAN2 yn cynnwys cyngor mewn perthynas â'r isafswm pellter rhwng gwaith mwynol ac aneddiadau: 500m yn achos glo, 200m mewn perthynas â chraig wedi'i malu a 100m mewn perthynas â thywod a graean a mathau eraill o fwynau lle nad oes angen chwythu. Mae PPW yn ceisio cyfeirio gweithio mwynau i ffwrdd o safleoedd gyda dynodiad Ewropeaidd a Chenedlaethol fel safleoedd Ramsar, Ardaloedd o Harddwch Naturiol Eithriadol (AHNE), Ardaloedd Cadwraeth Arbennig (ACA) a Safleoedd o Ddiddordeb Gwyddonol Arbennig (SoDdGA).

6.1.3. Mae Wreccsam wedi mynd i'r afael â'r gofyniad uchod trwy ddynodi Ardaloedd Gwahardd Cloddio (AEC) ac mae'r dull hwn wedi'i ystyried ar gyfer CDLI Sir y Fflint hefyd. Fodd bynnag, mae Llywodraeth Cymru newydd ymgynghori ar ei bwriad i newid ei dull yn ddrastig i lo, gan gynnwys olew a nwy ar y tir a fyddai'n tynnu ymaith yr angen i nodi'r fath ardaloedd ar gyfer mwynau ynni. Mewn perthynas â mwynau agregau, cynigir dyrannu safleoedd ar gyfer cloddio mwynau ac ystyrir bod hyn yn ffordd rymus o arwain cloddio mwynau newydd yn y Sir, gan dynnu ymaith yr angen i ddynodi AEC.

6.2. Craig wedi'i Malu

6.2.1. Calchfaen yw craig wedi'i malu sydd wedi'i gweithio yng Ngogledd Cymru gan mwyaf, gyda 66% o'r holl graig a falwyd yn dod o chwareli calchfaen yng Ngogledd Cymru yn 2015. Roedd llosgfaen, craig fetamorffig a llechi'n creu 25% a 9% o werthiant craig wedi'i malu yn 2015 yn y drefn honno a chaiff ei gweithio yng

ngorllewin y rhanbarth mewn nifer o safleoedd. O gofio dosbarthiad a hyd a lled llosgfaen, craig fetamorffig a llechi yn Sir y Fflint a Wrecsam, ystyrir mai'r ffynhonnell craig wedi'i malu mwyaf tebygol yw calchfaen.

- 6.2.2. Mae gan Sir y Fflint nifer o safleoedd sydd wrthi'n cynhyrchu calchfaen ar gyfer agreg, gan gynnwys Pant, Pant Y Pwll Dŵr, Hendre, Aberdo a Chefn Mawr. Mae calchfaen yn cael ei weithio yng Nghewn Mawr hefyd i ddarparu calchfaen ar gyfer y sment yn Paedwood. Mae tunelledd craig wedi'i malu a ddynodwyd gan Adolygiad 1^{af} y Datganiad Technegol Rhanbarthol yn gymharol fach ac nid ystyrir ei fod yn ddigonol i gefnogi datblygiad chwarel newydd. Felly, y ffordd fwyaf tebygol o fodloni'r angen hwn yw trwy estyniad i chwarel bresennol yn Sir y Fflint. Cynhaliwyd galwad am safleoedd yn Sir y Fflint a Wrecsam: rhoddwyd nifer o safleoedd gerbron i gloddio mwynau yn Sir y Fflint lle na roddwyd unrhyw safleoedd gerbron yn Wrecsam. Felly, cynigiwyd dull cydweithredol rhwng Sir y Fflint a Wrecsam ac eir ar ei drywydd trwy CDLI Wrecsam ac CDLI Sir y Fflint. Ar adeg ysgrifennu'r adroddiad hwn, roedd Wrecsam wedi ymgynghori ynghylch ei CDLI Adneuo sy'n cadarnhau'r dull hwn a pharatowyd Datganiad Tir Cyffredin rhwng y ddau awdurdod i ddarparu tystiolaeth yn Archwiliad Cyhoeddus CDLI Wrecsam i roi sicrwydd i'r Arolygydd y byddai'r diffyg dynodedig yn cael ei ddarparu trwy estyniad i safle neu safleoedd yn Sir y Fflint.

6.3. Asesu Safleoedd Ymgeisiol

- 6.3.1. Nid yw'r fethodoleg asesu safleoedd ymgeisiol a ddatblygwyd i asesu cynigion am ddatblygiadau newydd yn yr CDLI yn uniongyrchol berthnasol i asesu cynigion ar gyfer cloddio mwynau. Y rheswm am hyn yw oherwydd y gellir ond gweithio mwynau lle maen nhw'n digwydd ac yn sgil yr angen i leihau effeithiau ar ddatblygiadau sensitif trwy leoli'n ofalus i ffwrdd o eiddo preswyl a defnyddiau sensitif eraill fel ysgolion. Mae'r dystiolaeth hyd yma'n dynodi bod gofynion dyrannu'n annhebygol o fod yn ddigonol i gefnogi datblygu chwarel hollol newydd ar gyfer craig galed ac felly mae lleoliad chwareli presennol a allai gael eu hymestyn o bwys hefyd. Mae angen CDLlau i ddangos bod strategaeth a pholisïau'r CDLI yn ymarferol ac yn bosibl eu cyflawni. Mae ymgysylltu â gweithredwyr yn ffordd bwysig o sicrhau bod modd cyflawni safleoedd dynodedig ac maen nhw wedi'u cynnal ar hyd proses yr CDLI.
- 6.3.2. Cynhaliwyd Galwad am Safleoedd yn 2014 ar gyfer pob math o ddatblygiad. Mewn ymateb, rhoddwyd nifer o safleoedd mwynol gerbron gan weithredwyr a thirfeddianwyr. Yn ogystal, cynhaliwyd Galwad am Safleoedd targedig ar gyfer mwynau a gwastraff yn 2017 a anogodd gyflwyno nifer o safleoedd ychwanegol. Mae

Atodiad 3 yn rhoi manylion yr asesiad a gyflawnwyd ar gyfer pob safle.

6.4. Safleoedd Craig wedi'i Malu

- 6.4.1. Rhoddwyd nifer o safleoedd gerbron mewn ymateb i'r Alwad am Safleoedd a allai helpu i fodloni'r angen am graig wedi'i malu. Ni fyddai'r holl safleoedd yn ofynnol i fodloni'r angen hwn ac, yn dilyn asesiad cychwynnol o'r safleoedd, argymhellir dau safle am ystyriaeth bellach:
- i) Chwarel Hendre; a
 - ii) Chwarel Pant Y Pwll Dŵr.

Chwarel Hendre

- 6.4.2. Chwarel calchfaen yw Hendre a weithredir gan Tarmac ac mae ganddo ganiatâd cynllunio i gloddio mwynau tan 31 Rhagfyr 2030 ar ôl cael cymeradwyaeth gynllunio i ymestyn yr amser dan gyfeirnod 058984. Bydd hyn yn galluogi Tarmac i gloddio'r cronfeydd a ganiateir sy'n weddill ar y safle. Cyflwyniad i Alwad Pellach Sir y Fflint am Safleoedd Ymgeisiol Mwynau i ymestyn Chwarel bresennol Hendre i'r ochr i gyfeiriad y dwyrain ac i ddyfnhau'r gwaith.

Ansawdd a dosbarthiad mwynau

- 6.4.3. Gallai'r estyniad potensial i Chwarel Hendre gyflawni 10 miliwn tunnell fetrig ychwanegol o Galchfaen Loggerheads (3 miliwn tunnell fetrig o weithio i'r dwyrain a 7 miliwn tunnell fetrig o ddyfnder). Byddai'r estyniad arfaethedig hefyd yn sicrhau cronfeydd ychwanegol o 1 miliwn tunnell fetrig o 'Toprock' Calchfaen Cefn mawr. Y gyfradd cloddio bresennol yw 700,000 tunnell fetrig y flwyddyn. Felly, yn ôl y cyfraddau cloddio presennol, byddai hynny'n darparu cyflenwad ychwanegol o 15 mlynedd o galchfaen, yn ogystal â'r cronfeydd presennol a ganiateir.

Amwynder Preswyl

- 6.4.4. Mae fferm Pentre Lygan Uchaf 400 metr i gyfeiriad y dwyrain o'r ardal gloddio arfaethedig. Ni fyddai'r estyniad arfaethedig yn dod â'r ardal gloddio'n agosach at eiddo'n agos at ogledd y safle.

Priffyrdd

- 6.4.5. Eir at y chwarel trwy Ffordd Sirol ddi-ddosbarth sy'n cysylltu'r A541 a'r B5123. Oherwydd agosrwydd y chwarel at gefnffordd yr A55, ystyrir ei bod yn gyfleuster strategol bwysig sy'n cyflenwi cynhyrchion calchfaen i ranbarth Gogledd Cymru a Gogledd Orllewin Lloegr.

- 6.4.6. Ni fyddai'r estyniad yn cynyddu tunelledd y deunydd y gallai'r safle ei gynhyrchu ac felly ni fyddai nifer gyffredinol a'r mathau o gerbydau sy'n mynd at y safle'n newid o ganlyniad. Felly, mewn egwyddor, ni fyddai unrhyw effaith andwyol ar briffyrdd yn sgil yr estyniad.

Risg o Lifogydd

- 6.4.7. Mae priffordd gyhoeddus yr A541 nesaf at y chwarel yn sefyll ym Mharth C2: ardaloedd o'r gorlifdir heb isadeiledd amddiffyn rhag llifogydd arwyddocaol.

Gweledol a thirwedd

- 6.4.8. Nid yw'r safle mewn dynodiad tirwedd ffurfiol. Mae'r safle i'w weld o olygfannau i gyfeiriad y de a de orllewin y chwarel. Nid yw o fewn, ond mae i'w weld o Ardal o Harddwch Naturiol Eithriadol Bryniau Clwyd a Dyffryn Dyfrdwy sydd bron i 2km i gyfeiriad y gorllewin o'r chwarel. Mewn perthynas â'r effaith weledol a'r effaith ar y dirwedd, byddai hyn yn cael ei asesu yng nghan y cais cynllunio.

Ecoleg

- 6.4.9. Mae SoDdGA Coed-y-felin yn syth i gyfeiriad y de o'r chwarel. Ni fyddai'r estyniad arfaethedig yn agosach at y SoDdGA. Mae SoDdGA Coed Lygan-Uchaf a Choed Nant Figillt Ruby Quarry i gyfeiriad y dwyrain o'r chwarel. Yn ei hanfod, byddai'r estyniad yn symud ffin yr ardal gloddio 250 metr yn agosach at y SoDdGA. Yna, byddai'r SoDdGA'n gorwedd 600 metr i gyfeiriad y dwyrain o'r ffin gloddio.
- 6.4.10. Mae cyfres o wrychoedd a choed ar y safle a fyddai'n cael eu colli gan y datblygiad. Mae gan estyniad y safle'r potensial i effeithio ar foch daear ac ystumod. Ceir Cynllun Gweithredu Bioamrywiaeth ar gyfer Hendre sy'n disgrifio ardal yr estyniad fel glaswelltir wedi'i wella gyda gwrychoedd, ond gan ei fod ar galchfaen, mae'n fwy tebygol o fod wedi ei led-wella. Cyfeiria'r cynllun gweithredu hefyd at adrannau o laswelltir niwtral a chalchfaen (cul) i'w rheoli ar hyd ffin ddwyreiniol y chwarel a fyddai'n cael eu colli, felly byddai'n bwysig creu glaswelltiroedd calchfaen/niwtral eraill. Ceir clwydi ystumod adnabyddus ac mae gan yr ardal botensial uchel am rywogaethau ystumod yn gyffredinol. Rhwng tirdaliad presennol y gweithredwr sy'n cynnwys y chwarel a pharhau â'r cyllid i NWWT i reoli gwarchodfa natur Coed y Felin, byddai nifer o ddewisiadau gwella bioamrywiaeth ar gyfer cynefinoedd a rhywogaethau.

Treftadaeth ac Archeoleg

- 6.4.11. Mae'r safle'n agos at Dŷ Injan Gradd II a restrwyd fel enghraifft dda o dŷ injan ac ar gyfer cysylltiadau hanesyddol gyda'r diwydiant lleol. Mae gan yr ardal hanes o gloddio plwm ac felly mae'n debygol fod yno weddillion archeolegol heb eu tarfu arnynt yn ardal yr estyniad. Fel rhan o'r adolygiad blaenorol o ganiatâd cynllunio mwynol ar gyfer y chwarel, roedd cyfarwyddyd gwylio archeolegol yn ofynnol yn ystod y gwaith stripio pridd. Petai unrhyw gais yn cael ei gyflwyno, a chaniatâd cynllunio'n cael ei roi yn dilyn hynny, mae'n debygol y byddai hyn yn ofyniad mewn unrhyw ganiatâd amodol.

Ansawdd tir amaethyddol

- 6.4.12. Byddai'r ardal yr estyniad yn effeithio ar 8 hectar o dir amaethyddol gradd 3a.

Hawliau Tramwy Cyhoeddus

- 6.4.13. Mae Hawl Tramwy Cyhoeddus 24 wedi'i lleoli i gyfeiriad y gogledd a'r dwyrain o ardal yr estyniad arfaethedig. Ni fyddai hyn yn gofyn am unrhyw ddargyfeiriad os bydd y safle'n cael ei ddatblygu.

Diogelu Maes Awyr

- 6.4.14. Nid yw safle'r estyniad arfaethedig o fewn ardal Ddiogelu'r Maes Awyr ond mae 90 metr i gyfeiriad y de o'r estyniad ac yn rhan o safle'r chwarel bresennol yn yr ardal Diogelu Maes Awyr ac felly byddai angen ymgynghoriad fel rhan o broses yr CDLI a phetai cais cynllunio'n cael ei gyflwyno.

Chwarel Pant Y Pwll Dŵr

- 6.4.15. Chwarel calchfaen yw Pant Y Pwll Dŵr a weithredir gan Cemex ac sydd â chaniatâd cynllunio i gloddio mwynau tan 21 Chwefror 2042. Rhoddodd y gweithredwr ddau safle gerbron i'w cynnwys yn yr CDLI: estyniad i orllewin y chwarel ac estyniad i'r gogledd, gan ymestyn i'r bwnd gorlwytho. Mae'r gweithredwr wedi cadarnhau nad ydynt bellach yn dymuno mynd ar drywydd yr estyniad gorllewinol a bod yr asesiad hwn felly'n seiliedig ar yr estyniad gogleddol.

Ansawdd a dosbarthiad mwynau

- 6.4.16. Mae'r gweithredwr wedi cyflwyno gwybodaeth sy'n dangos y cyfraniad y byddai'r dyraniad yn ei wneud dros y tymor hwy, y tu hwnt i Gyfnod y Cynllun. Yn ôl y cyfraddau cynhyrchu cyfredol, bydd y cronfeydd a ganiateir yn cael eu disbyddu o fewn Cyfnod y Cynllun. Mae'r safle'n cynhyrchu calchfaen ansawdd uchel iawn

sydd ag amrywiaeth o wahanol ddefnyddiau, gan gynnwys ceisiadau diwydiannol.

- 6.4.17. Gallai'r estyniad arfaethedig gyflenwi hyd at 13 miliwn tonnall fetrig o galchfaen sy'n addas i'w prosesu'n gynhyrchion agregau i barhau â busnes presennol y Cwmni. Yn ôl y cyfraddau allbwn presennol, byddai hyn yn ymestyn bywyd y chwarel gan ryw un deg saith o flynyddoedd. Unwaith eto, bydd y caniatâd mewn bod ar gyfer Chwarel Pant y Pwll Dŵr, yn ôl y gyfradd gwerthiant gyfredol, yn arwain at ddisbyddu'r safle erbyn 2031, o fewn cyfnod arfaethedig y Cynllun.
- 6.4.18. Ystyrir bod y Chwarel o bwysigrwydd hanfodol a strategol i'r Cwmni oherwydd ei hagosrwydd at yr A55 ac mae'n cyflenwi cryn dipyn o agregau i Ogledd Orllewin Lloegr. Byddai estyniad yn gwireddu 13 miliwn tonnall fetrig pellach o galchfaen o'r un safon uchel a byddai'n ymestyn bywyd y safle tan oddeutu 2033 - 2036 yn dibynnu ar y cyfraddau cynhyrchu.

Amwynder Preswyl

- 6.4.19. Byddai'r estyniad gogleddol arfaethedig yn dod ag ardal gloddio'r chwarel yn agosach at eiddo preswyl a derbynyddion sensitif i ogledd orllewin y safle. Mae'r eiddo preswyl agosaf ychydig dros 100 metr i ogledd orllewin ardal gloddio'r estyniad arfaethedig.
- 6.4.20. Ceir nifer fach o eiddo preswyl unig yn agos at y safle a allai gael eu heffeithio gan estyniad. Mae'r gweithredwr wedi cynnal asesiad, sy'n dangos na fyddai cyfyngiadau yn MTAN 1 yn cael eu torri yn y eiddo agosaf, sef Pant y Groes, Parc y Prysau a Parry's Mine. Fodd bynnag, byddai hyn yn gofyn am ostyngiad yn yr uchafswm ffrwydrad union er mwyn sicrhau nad yw'r terfynau'n cael eu torri ym Mhant y Groes.
- 6.4.21. Yn ogystal ag effeithiau chwythu, mae gan yr estyniad y potensial i gael effaith weledol ar dderbynyddion sensitif ac i greu poendod trwy greu sŵn a llwch. Mae rhan o ardal yr estyniad yn cael eu defnyddio gan fwnd ar hyn o bryd sy'n darparu gwaith lliniaru gweledol a gwanhau sŵn ar gyfer eiddo i ogledd orllewin y safle.

Priffyrdd

- 6.4.22. Mae Gwibffordd A55 Gogledd Cymru 1.5km i gyfeiriad y dwyrain o'r safle, gyda mynediad i'r llwybr hwn o'r chwarel yn dod o ffyrdd di-ddosbarth lleol trwy Bentre Halklyn, gan gysylltu â'r B5123 ac yn cysylltu â chefnffordd yr A55 yng Nghyfnnewidfa Springfield. Oherwydd agosrwydd y chwarael at gefnffordd yr A55, ystyrir ei fod yn gyfleuster strategol bwysg sy'n cyflenwi cynhyrchion calchfaen i ranbarth Gogledd Cymru a Gogledd Orllewin Lloegr.
- 6.4.23. Er mwyn rhyddhau mwynau yn rhan ogleddol y safle, byddai angen ail-gyflunio'r mynediad. Er nad yw union leoliad y mynediad

yn hysbys ar hyn o bryd, mae hwn yn fater y gellir ymdrin yn rhesymol ag ef yng ngham y cais cynllunio. Ni fyddai'r estyniad yn cynyddu tunelledd y deunydd y gallai'r safle ei gynhyrchu ac felly ni fyddai nifer gyffredinol a'r mathau o gerbydau sy'n mynd at y safle'n newid o ganlyniad. Felly, mewn egwyddor, ni fyddai unrhyw effaith andwyol ar briffyrdd yn sgil yr estyniad.

Ecoleg

6.4.24. Mae'r safle arfaethedig yn cynnwys swmp Safle Bywyd Gwyllt Anstatudol Pant y Pwll Dŵr, a byddai ennill a gweithio'r mwyn yn arwain at ei golli. Fodd bynnag, saif mwyafrif safle'r estyniad arfaethedig bellach islaw ardal storio gorlwytho newydd ei ffurfio, a phenderfynodd asesiad ecolegol a gynhaliwyd i gefnogi cais cynllunio rhif 055218, ar wahân i ardal fach o laswelltir wedi'i ledwella, ychydig o ddiddordeb ecolegol oedd yn y Safle Bywyd Gwyllt. Arweiniodd ddatblygiad y bwnd gorlwytho at golli'r safle bywyd gwyllt, ond derbyniwyd hyn oherwydd roedd y bwnd gorlwytho'n cael ei adfer i laswelltir calchaid sy'n cyd-fynd â nodweddion SoDdGA/AGA mynydd Halkyn. Gallai'r cynefin hwn gael ei ail-greu o fewn ymylon cynnig datblygu penodol i ennill a gweithio mwynau yn yr ardal a gynigir. Saif y safle hefyd yn rhannol o fewn Safle o Ddiddordeb Gwyddonol Arbennig (SoDdGA) Comin Halkyn a Glaswelltiroedd Treffynnon. Fodd bynnag, mae'r safle cyfan sy'n gorwedd o fewn y SoDdGA yn rhan o'r chwarel weithredol ac felly'n cael ei tharfu arni'n gyson ac felly nid yw'n chwarae rôl yng ngwerth cadwraeth natur y SoDdGA ehangach.

6.4.25. Mae'r estyniad arfaethedig hefyd yn gorwedd yn agos at Ardal Gadwraeth Arbennig (AGA) Mynydd Halkyn, sy'n gorwedd i gyfeiriad y gogledd a'r de. Fodd bynnag, fel gyda'r SoDdGA, ni ddynododd asesiadau a gynhaliwyd ar y cyd â chaniatâd cynllunio rhif 055218 effaith ar yr AGA, nid oedd ychwaith lwybr y gallai'r datblygiad hwnnw gael effaith ar yr AGA a ddynodwyd. Byddai angen i golled yr ardal hon gael ei digolledu naill ai o fewn y safle neu ar dir o fewn rheolaeth yr ymgeisydd. At hynny, roedd adferiad terfynol y chwarel yn cynnwys nodweddion tebyg.

Treftadaeth ac Archeoleg

6.4.26. Saif y safle'n agos at Heneb Restredig Parc y Prysau Tumulus B. Penderfynodd asesiad a gynhaliwyd ar y cyd â chaniatâd cynllunio rhif 055218 nad yw'r Heneb yn ei lleoliad topograffig gwreiddiol oherwydd y gweithgarwch mwyngloddio hanesyddol ac mae ei brif werth yn yr Heneb ei hun, nid ei lleoliad. Ni fyddai ardal yr estyniad arfaethedig yn ymyrryd ar yr Heneb ei hun, gan ei adael heb ei tharfu arni. At hynny, fel rhan o ganiatâd 055218, rhoddwyd rhaglen o waith maes archeolegol ar waith yn yr ardal arfaethedig, ychydig o arwyddocâd a nodwyd.

Effaith Weledol a Thirwedd

- 6.4.27. Saif y safle'n gyfan gwbl o fewn, ond wrth ymyl, Tirwedd Gofrestredig o Ddiddordeb Naturiol Eithriadol Comin Treffynnon a Mynydd Halkyn. Mae hwn yn ddynodiad anstatudol ac ystyrir na fyddai ardal yr estyniad arfaethedig yn cael unrhyw effaith ar unrhyw nodweddion penodol ynddi. Mewn perthynas ag effaith weledol, byddai hyn yn cael ei asesu yng ngham y cais cynllunio.

Tir Comin

- 6.4.28. Mae'r safle wedi'i gofrestru'n Dir Comin a ddefnyddir gan Borwyr Halkyn i bori eu hanifeiliaid. Mae'n cynnwys glaswelltir yr ucheldir gydag ardaloedd gwasgaredig bach o redyn; defnyddir y tir yn bennaf i ddefaid bori arno ond ceir arwyddion a ddefnyddir hefyd ar gyfer marchogaeth achlysurol. Mae'n cynnwys dau dwll segur ac wedi'u ffensio. Os bydd y safle'n dod gerbron fel cais cynllunio, byddai'n rhaid gofyn am yr holl ganiatadau perthnasol o Arolygiaeth Gynllunio Cymru yn unol â Deddf Tiroedd Comin 2006.

Hawliau Tramwy Cyhoeddus

- 6.4.29. Mae dwy hawl tramwy gyhoeddus; FP32 ac FP36 sy'n croesi safle'r estyniad arfaethedig, a ffordd breifat sy'n arwain at eiddo o'r enw Nant y Fuwch sydd hefyd yn croesi'r safle y byddai angen ei ddargyfeirio.

Crynodeb o Ddyraniadau Craig wedi'i Malu ar hyn o bryd

- 6.4.30. O gofio presenoldeb safleoedd craig galed gweithredol presennol yn Sir y Fflint, ystyrir bod y gofyniad a nodwyd yn y Datganiad Technegol Rhanbarthol wedi cael ei fodloni'n fwy cynaliadwy yn Sir y Fflint o estyniad i chwarel bresennol yn hytrach na sefydlu chwarel newydd. Mae'r uchod yn dangos bod gweithredwyr chwarel y ddwy chwarel galchfaen bresennol a enwir yn ymroi i ymestyn y safleoedd hyn i fodloni'r diffyg a bydd y ddau safle'n dod gerbron fel dyraniadau yn CDLI Sir y Fflint ar ôl iddynt gael eu mabwysiadu. Yn amodol ar y caniatadau cynllunio angenrheidiol, mae sicrwydd y bydd y diffyg craig wedi'i malu yn y rhanbarth, a nodwyd yn adolygiad cyntaf y Datganiad Technegol Rhanbarthol yn cael ei ddarparu gan estyniad i chwarel bresennol yn Sir y Fflint.

Goblygiadau i'r dyfodol 2^{il} Adolygiad y Datganiad Technegol Rhanbarthol

- 6.4.31. Ar adeg cyhoeddi'r Strategaeth Ddewisol a Pholisi STR16, nid oes adolygiad o'r Datganiad Technegol Rhanbarthol ar gyfer agregau wedi dechrau eto. Fodd bynnag, mae'r adolygiad yn mynd rhagddo ar hyn o bryd, a rhagwelir y byddai ymgynghoriad ar y ddogfen hon yn cael ei gyhoeddi yn yr hydref 2019. Mae'r dynodiadau cynnar yn dangos y bydd gofyniad cynyddol i gyfrannu at y cyflenwad o graig wedi'i malu ranbarthol (calchfaen).

Ni fydd 2^{il} adolygiad y Datganiad Technegol Rhanbarthol yn cael ei gyhoeddi tan ddechrau 2020. Byddai'r dyraniadau ar gyfer craig wedi'i malu yn yr CDLI yn mynd ymhell i gyfrannu at y gofyniad hwn. Yn achos diffyg, gellir mynd i'r afael â hyn yn adolygiad pum mlynedd gyntaf yr CDLI a chydweithrediadau posibl eraill gydag awdurdodau cyfagos.

6.5. Tywod a Graean

- 6.5.1. Mae gan Sir y Fflint nifer fach o safleoedd tywod a graean gweithredol, sef Maes Mynan, Fron Haul a Kinnerton a safle anweithredol, sef Ddol Uchaf. Mae Gweithgor Agregau Rhanbarthol Gogledd Cymru'n cyhoeddi arolwg blynyddol sy'n gosod lefel y gwerthiant agregau yn y rhanbarth. Oherwydd cyfrinachedd masnachol a'r nifer gyfyngedig o safleoedd mewn mannau eraill yn y rhanbarth, mae'r data ar gyfer Sir y Fflint wedi'i gyfuno â ffigurau ar gyfer awdurdodau cynhyrchu tywod a graean eraill gan gynnwys Wrecsam a Gwynedd. Dynododd arolwg blynyddol 2015 fod yna fanc tir 24 blynedd yng Ngogledd Ddwyrain Cymru a banc tir 21 mlynedd ar draws Gogledd Cymru gyfan gan ddefnyddio cyfartaledd gwerthiant o 10 mlynedd. Dynodwyd gofyniad am 1.4 miliwn tunnell fetrig yn Adolygiad 1af y Datganiad Technegol Rhanbarthol. Yn ystod yr Alwad am safleoedd, rhoddwyd dau safle gerbron i gloddio tywod a graean :
- Chwarel Fron Haul; a
 - Chwarel Ddol Uchaf

Chwarel Fron Haul

- 6.5.2. Chwarel tywod a graean gweithredol yw Fron Haul ac mae ganddi ganiatâd cynllunio i gloddio tywod a graean, cyfeirnod 037406 sy'n gofyn bod caniatâd cynllunio'n dod i ben erbyn 31 Rhagfyr 2022. Mae cronfeydd tywod a graean heb eu caniatáu o dan y gweithfeydd a swyddfeydd sy'n amcangyfrif y byddai cynnyrch o oddeutu 500,000 tunnell fetrig yn cyfrannu at y tunelledd gofynnol a ddynodwyd yn Adolygiad 1^{af} y Datganiad Technegol Rhanbarthol.
- 6.5.3. Mae'r ardal a gynigir o fewn ffin y caniatâd cynllunio presennol yn gyfan gwbl ac fe'i defnyddir ar hyn o bryd gan swyddfeydd a gweithfeydd penodol. Byddai'r mynediad presennol yn cael ei ddefnyddio. Ystyrir na fyddai'r cynnig yn cael mwy o effaith o gymharu â'r datblygiad cymeradwy presennol.

Lleoliad a Disgrifiad o'r Safle

- 6.5.4. Chwarel tywod a graean yw chwarel Fron Haul quarry yn Afonwen ac mae'n eiddo i Breedon Aggregates. Mae'r safle oddi ar yr A541, rhyw 3km i gyfeiriad y dwyrain o Chwarel Maes Mynan. Nid

oes unrhyw fwyn yn cael ei gloddio o Fron Haul ar hyn o bryd, ond mae'r safle'n parhau i gael ei ddefnyddio fel y prif ardal bentyrru a phrosesu ar gyfer mwynau a gloddiwyd o chwarel Maes Mynan gerllaw a weithredir gan Breedon Aggregates hefyd. Cludir y mwyn trwy HGV o Faes Mynan i Fron Haul lle caiff ei brosesu (ei falu a'i sgrinio) ac yna'i bentyrru cyn ei gludo oddi ar y safle. Ar gyfartaledd, mae rhyw 8,000 tonn fetrig o fwyn yn gadael y safle bob mis. Nid oes unrhyw ddeunydd yn cael ei gloddio o Fron Haul ar hyn o bryd, ond mae cronfeydd caniatâd sylweddol yn weddill.

- 6.5.5. Yn ogystal, mae Breedon Aggregates yn gweithredu chwarel tywod a graean i gyfeiriad y gorllewin o'r safle yn Chwarel Maes Mynan a gafodd ganiatâd am estyniad o'r ardal ac o amser i 2023 yn 2016. Fodd bynnag, mae'r cronfeydd yn teneuo ym Maes Mynan a phan fydd y safle wedi'i weithio'n llwyr, credir y bydd y cwmni'n ailddechrau gweithrediadau ym Maes Mynan.

Ansawdd a dosbarthiad mwynau

- 6.5.6. Nid yw ansawdd y mwyn o dan ardal y gwaith yn hysbys ar hyn o bryd gan nad oes tyllau turio wedi'u drilio. Rhagwelir y bydd hyn yn cael ei wneud yn 2020. Fodd bynnag, disgwylir iddo gynnwys 80% o dwyod mân crwn ac 20% o raeon oherwydd y cofnodion presennol ar gyfer y cronfeydd a ganiateir ar y safle.
- 6.5.7. Mae gweithredwyr presennol chwarel Fron Haul hefyd yn gweithredu Chwarel Maes Mynan 3km i gyfeiriad y gorllewin o Fron Haul. Bydd y safle hwn yn cael ei weithio allan yn fuan a disgwylir y byddai Fron Haul yn cael ei weithio ar ôl disbyddu Chwarel Maes Mynan. Rhagwelir y byddai parhad o'r cynhyrchiant blynyddol sydd wedi bod oddeutu 140,000 tonn fetrig y flwyddyn yn hanesyddol.
- 6.5.8. Byddai estyniad i'r chwarel bresennol yn sicrhau gwaith am 3.5 blynedd ychwanegol i'r gweithlu cyfredol yn Chwareli Maes Mynan a Fron Haul gan y byddai pob un yn trosglwyddo i Fron Haul o gau Maes Mynan.
- 6.5.9. Disgwylir cyflwyno cais yn ystod 2021 ar gyfer ardal yr estyniad a rhagwelir y byddai'r safle'n gweithredu am 3.5 blynedd ychwanegol.
- 6.5.10. Mae gan y safle gyfleuster pwysig i'r cwmni gweithredu ac mae ganddynt ymrwymiad i weithio'r chwarel ar ôl i Chwarel Maes Mynan gau.

Amwynder Preswyl

- 6.5.11. Gan fod yr estyniad arfaethedig o fewn cyfyngiadau ffin y caniatâd cynllunio presennol a ganiateir, ni fyddai unrhyw effaith ychwanegol ar amwynder preswyl.

Priffyrdd

- 6.5.12. Eir at y safle o'r A541. Ni fyddai unrhyw newid i'r mynediad sydd ohoni ac ni ragwelir y bydd y cyfraddau allbwn yn cynyddu dros gyfraddau allbwn presennol Maes Mynan sef 140,000 tonnall fetrig y flwyddyn. Mae gan y caniatâd mewn bod gyfyngiad allbwn o 220,000 tonnall fetrig y flwyddyn ac felly ni ddisgwylir y bydd yr estyniad arfaethedig yn cael unrhyw effaith ychwnaegol ar y priffyrdd.

Hawliau Tramwy Cyhoeddus

- 6.5.13. Ni fyddai'r estyniad arfaethedig yn cael effaith ar hawliau tramwy cyhoeddus.

Ecoleg

- 6.5.14. Gan fod yr estyniad arfaethedig yn ffin bresennol y chwarel, byddai gan y cynnig effaith gyfyngedig ar ecoleg ar fuddiannau cadwraeth natur. Ceir coetiroedd hynafol a lled hynafol o fewn 200m o'r safle ac mae yna safleoedd bywyd gwylt o fewn 100m o'r safle.

Treftadaeth ac Archeoleg

- 6.5.15. Gan fod yr estyniad arfaethedig o fewn cyfyngiadau safle'r chwarel bresennol, mae'r arwyneb eisoes wedi'i tharfu arni.

Effaith Weledol a Thirwedd

- 6.5.16. Mae AHNE Bryniau Clwyd i gyfeiriad y de o'r chwarel. Nid yw'n debygol y bydd yr estyniad arfaethedig yn cael effaith sylweddol ar y dirwedd gan ei fod wedi'i gynnwys o fewn cyfyngiadau'r chwarel bresennol. Fodd bynnag, o ran yr effaith weledol, byddai hyn yn cael ei asesu yng nghan y cais cynllunio.

Chwarel Ddol Uchaf

- 6.5.17. Ar hyn o bryd, mae Ddol Uchaf yn chwarel tywod a graean anweithredol. Rhoddwyd caniatâd i ennill a gweithio tywod a graean yn Ddol Uchaf ym 1946 dan Orchymyn Datblygu Dros Dro. Ar 3 Chwefror 1965, rhoddwyd caniatâd cynllunio pellach yn y safle i ennill a gweithio tywod a graean. Adolygwyd yr amodau hyn dan ddarpariaethau Deddf yr Amgylchedd a rhoddwyd caniatâd ar 14 Ionawr 2013 tan 21 Chwefror 2042 dan gyfeirnod cynllunio 029143.

Lleoliad a Disgrifiad o'r Safle

- 6.5.18. Chwarel tywod a graean yn Afonwen yw Ddol Uchaf y mae Breedon Aggregates yn berchen arni. Mae'r gweithrediadau'n segur ar hyn o bryd, ac wedi bod felly ers rhyw 18 mlynedd. Gweithiwyd y chwarel ddiwethaf yn oddeutu 2001 ac ers hynny mae wedi bod yn segur ac mae rhywfaint o aildyfiant naturiol wedi digwydd ar y safle. Mae Breedon Aggregates hefyd yn gweithredu chwarel tywod a graean i orllewin y safle hwn yn Chwarel Maes Mynan a gafodd estyniad o'r ardal ac o amser hyd at 2023 yn

2016. Fel y nodwyd uchod, bwriad Breedon Aggregates yw gweithio Chwarel Fron Haul ar ôl i Faes Mynan gael ei weithio, ac yna byddai'n symud i Ddol Uchaf ac yn ailddechrau gweithrediadau yn Ddol Uchaf ar ôl i'r cronfeydd ddisbyddu yn Fron Haul.

- 6.5.19. Mae'r chwarel bresennol yn cwmpasu arwynebedd o ryw 5.2ha, mae rhyw 3.1ha ohoni wedi'i weithio'n flaenorol i ddyfnder o 103.3m AOD mewn rhannau. Byddai'r estyniad arfaethedig yn cynyddu'r safle i 10ha.
- 6.5.20. Saif y safle yn union i gyfeiriad y Dwyrain o bentref Afonwen ac mae'r A541 bob ochr iddo a thu hwnt i hynny mae Ardal o Harddwch Naturiol Eithriadol Bryniau Clwyd. Mae'r safle wedi'i amgylchynu bron yn llwyr gan dir amaethyddol, ond mae yna rai eiddo preswyl i gyfeiriad y Dwyrain lle cyflawnir mynediad i'r chwarel ar hyn o bryd.

Ansawdd a dosbarthiad mwynau

- 6.5.21. Amcangyfrifir bod rhyw 500,000 tonnall fetrig o gronfeydd mwynau wedi'u caniatáu'n parhau yn Ddol Uchaf, a haerir y byddai'r cyfraddau cloddio blynyddol yn debyg i Chwarel Maes Mynan, sef 140,000 tonnall fetrig y flwyddyn.
- 6.5.22. Disgwylir y byddai'r estyniad arfaethedig yn cynhyrchu 1.4 miliwn tonnall fetrig. Gyda'r cyfraddau cynhyrchu amcanol, byddai hyn yn ymestyn oes y chwarel am 10 mlynedd pellach dros y 3.5 blynedd bresennol sy'n weddill yng nghronfeydd a ganiateir y chwarel.
- 6.5.23. Mae'r safle'n gyfleuster pwysig i'r cwmni gweithredu ac mae ganddynt ymrwymiad i weithio'r chwarel ar ôl i Chwarel Fron Haul gau, disgwylir i hynny ddigwydd yn oddeutu 2027.

Amwynder Preswyl

- 6.5.24. Mae nifer gyfyngedig o anheddau gwledig a fferm gerllaw ac/neu yn edrych dros ffin bresennol y safle a ganiateir. Ystyrir na fyddai ardal yr estyniad yn cael eu hedrych drosodd gan eiddo preswyl. Fodd bynnag, byddai'r estyniad yn agosach at eiddo preswyl yn Afonwen. Serch hynny, byddai parth clustogi priodol yn cael ei roi ar waith yn unol â Pholisi 24 arfaethedig yr CDLI.

Priffyrdd

- 6.5.25. Rhoddwyd caniatâd cynllunio ym 1989 ar gyfer mynediad i'r chwarel yn uniongyrchol oddi ar yr A541. Cwblhawyd safn y mynediad newydd hwn hyd at ffin y briffordd ond nid yw'r ffordd fynediad sy'n weddill i fynd trwy'r chwarel wedi'i hadeiladu eto. Rhagwelir y byddai'r estyniad arfaethedig yn Ddol Uchaf yn darparu parhad mewn gwaith yn sgil cau Fron Haul. Rhagwelir na

fyddai cynnydd yn symudiadau'r cerbydau ar hyd yr A451 gan na fyddai'r ddau safle'n gweithredu ar yr un pryd.

Hawliau Tramwy Cyhoeddus

- 6.5.26. Mae Llwybr Troed 27 i gyfeiriad y gogledd o'r safle presennol, a thrwy'r estyniad arfaethedig. Felly, byddai angen dargyfeiriad dros dro o'r hawl tramwy cyhoeddus hwn os bydd caniatâd cynllunio'n cael ei roi.

Ecoleg

- 6.5.27. Mae'r safle wedi'i ddynodi'n safle bywyd gwyllt lleol (Pydew Tywod Ddol Uchaf) ac mae nifer o safleoedd bywyd gwyllt lleol eraill o fewn 200m i'r safle. Mae SoDdGa Ddol Uchaf yn union i gyfeiriad y dwyrain o'r safle. Mae SoDdGa Caerwys Tufa (a ddynodwyd ar gyfer nodweddion daearegol) 200m i gyfeiriad y gorllewin o ardal yr estyniad ac mae SoDdGA Coed Trefaith 800 metr i ogledd ardal yr estyniad arfaethedig. Bydd yr effaith ar ecoleg yn cael ei asesu yng ngham y cais cynllunio.

Coed

- 6.5.28. Bydd Coed Wyn sy'n uno â'r A541 yn cael eu cadw. Bydd coed wedi'i hunan-hau, lled-aeddfed sy'n ffurfio ffin y safle presennol a'r estyniad arfaethedig yn cael eu cwmpo.

Treftadaeth ac Archeoleg

- 6.5.29. Coetir hynafol a lled hynafol i gyfeiriad y de o'r safle. Efallai bod diddordeb archeolegol potensial ar y safle hwn a fyddai'n cael ei asesu yng ngham y cais cynllunio.

Effaith weledol a thirwedd

- 6.5.30. Mae AHNE Bryniau Clwyd gerllaw ffin Ddeheuol y safle. Bydd tirwedd ac effaith weledol unrhyw estyniad yn cael eu hasesu yng ngham y cais cynllunio.

Risg o Lifogydd/hydrodaeareg

- 6.5.31. Nid yw'r safle mewn ardal risg o lifogydd ac felly ni fydd angen asesiad o ganlyniadau llifogydd. Mae'n annhebygol y bydd y safle'n cael ei sychu gan fod y cynigion cynt ar gyfer gweithio gwlyb, gan y byddai ardal weithio'r pydew tywod i'r dyfodol yn cael ei weithio o dan y lefel trwythiad. Bydd y materion hyn yn destun asesiad yng ngham y cais cynllunio ac yn cael eu cynnwys mewn Datganiad Amgylcheddol.

6.6. Mwynau Heb fod yn Agregau

Clai

- 6.6.1. Ni chynhelir rhagolygon o angen ar gyfer mathau o fwynau heb fod yn agregau a byddai angen eu hystyried fesul achos. Mae clai a siâl yn parhau i gael eu gweithio mewn safleoedd yn Lloegr 10 ond dirywiodd gwerthiant yn sylweddol yn dilyn y dirwasgiad ac nid ydynt eto wedi gwella i'r lefelau cyn 2008. Mae clai a siâl wedi'u gweithio mewn nifer o safleoedd ym Mwcle, ond, yn y blynyddoedd diwethaf, cloddiwyd mewn un safle at ddibenion peiriannu yn y safle ei hun. O gofio argaeledd safleoedd presennol cronfeydd a ganiateir a'r dirywiad yn y galw am glai ar draws y DU ac absenoldeb safleoedd yn cael eu rhoi gerbron yn ystod yr Alwad am Safleoedd, ystyrir ei bod hi'n rhesymol peidio â dyrannu safleoedd cloddio am glai yn yr CDLI.
- 6.6.2. Mae'r gallu i wneud brics wedi dirywio yn y DU. Fodd bynnag, ceir galw o'r newydd am frics ac mae gwaith brics newydd yn cael ei ddatblygu yn Lloegr, gyda phwyslais cynyddol ar gludo clai safon uchel ar gyfer defnyddiau arbenigol.

Tywod Silica

- 6.6.3. Tywod Diwydiannol: Silica. Mae dyddodion tywodfaen a chanddynt y potensial am dywod silica a chraig silica'n helaeth yng Ngogledd Ddwyrain Cymru. Ceir tywod silica o Grut Melinfaen wedi'i ddiraddio sydd o burdeb silica uchel. Nid yw'n hysbys ble mae'r graig silica wedi'i diraddio'n digwydd h.y. y deunydd y gellir ei weithio i gynhyrchu tywod silica. Hyd at 2013, cloddiwyd tywod silica o safle yn Sir Ddinbych sydd bellach wedi'i stopio. Mae nifer o orchmynion gwahardd wedi'u cyhoeddi ar gyfer safleoedd mewn mannau eraill yn y rhanbarth. Ni roddwyd safleoedd gerbron i'w cynnwys yn yr CDLI trwy'r Alwad am Safleoedd. Mae gwerthiant tywod diwydiannol yn gymharol fach gyda mwyafrif y gwerthiant yn deillio yn Swydd Gaer. O gofio hyn, ystyrir yn rhesymol peidio â chlustnodi safleoedd ar gyfer cloddio tywod silica yn yr CDLI.

Glo

- 6.6.4. Mae gwerthiant glo a'r galw amdano wedi dirywio'n sylweddol ers dechrau'r ganrif yn sgil cau'r pwll dwfn mawr olaf yn 2015 ar y cyd â dirywiad dwfn yn y galw yn sgil polisi'r llywodraeth a grymoedd y farchnad gan leihau'r defnydd am lo i greu trydan. Ni roddwyd safleoedd gerbron i'w cynnwys yn yr CDLI yn ystod yr Alwad am Safleoedd ac nid oes ceisiadau wedi dod i law i gloddio am lo.
- 6.6.5. O gofio'r dirywiad yn y galw, newidiadau i Bolisi Ynni'r DU ac absenoldeb y galw am safleoedd yn Sir y Fflint, a'r sefyllfa polisi newydd yn PPW10 mewn perthynas â chloddio glo a thanwydd

¹⁰ Annual Minerals Raised Inquiry Survey 2005-2014

ffosil, ystyrir ei bod hi'n rhesymol na wnaed unrhyw ddyraniadau yn y Sir i gloddio am lo. Nid yw parhau i gloddio am danwydd ffosil yn cyfateb i'r targedau gostwng carbon, ac felly Polisi Llywodraeth Cymru yw osgoi cloddio a defnyddio tanwydd ffosil yn barhaus. Mae PPW10 yn datgan na ddylai'r cynigion am ddatblygiad mwynglawdd dwfn, agored neu ysbail glofa gael eu caniatáu ac eithrio mewn amgylchiadau hollol eithriadol.¹¹

- 6.6.6. Os bydd cynigion yn cael eu cyflwyno i'r Awdurdod Cynllunio Lleol i gloddio am lo, bydd angen darparu tystiolaeth rymus a chredadwy bod y cynigion yn cydymffurfio â'r hierarchaeth ynni. Er bod PPW10 yn gryf yn erbyn datblygu ynni mwynau, nid yw'n atal y posibilrwydd o wneud achos eithriadol, ac nid oes dim i atal cais cynllunio rhag cael ei gyflwyno. Os bydd cais yn cael ei gyflwyno, ystyrir bod digon o ddiogelwch a hyblygrwydd yn yr CDLI gyda'r darpariaethau a wnaed ym Mholisiâu PC2 ac EN26 a hefyd PPW10 i allu asesu'r cynigion hynny.

7. Lleihau Effaith Cloddio

7.1. Parthau Clustogi

- 7.1.1. Mae PPW10 yn gosod yr angen i CDLlau leihau'r gwrthdaro rhwng datblygu mwynol a heb fod yn fwynol trwy ddefnyddio parthau clustogi. Mewn perthynas â mwynau agregau, mae MTAN1 yn cynghori'r defnydd o glustogau 100m ar gyfer tywod a graean (a safleoedd eraill lle na chaniateir chwythu) a 200m ar gyfer safleoedd craig wedi'i malu. Ceir nifer o chwareli gweithredol yn Sir y Fflint, fel y manylir yn Nhabl 2 uchod. Aseswyd pob safle ac ystyriwyd yr angen am glustogi. Mae Tabl 6 isod yn esbonio pa glustogau a gynigiwyd a pham.

Tabl 6: Parthau Clustogi Arfaethedig

Enw'r Safle	Mwyn	Clustog	Sylwadau
Aberdo/Bryn Mawr	Calchfaen/ Cornfaen	200m	Safle a ganiateir, gweithredol
Cefn Mawr	Calchfaen	200m	Safle a ganiateir, gweithredol
Grange	Calchfaen	200m	Nid yw'r safle wedi'i weithio ers y 1970au ac nid yw'r perchennog wedi dangos unrhyw fwriad i weithio'r safle. Er bod y safle'n ymgeisydd am waharddiad, bydd y glustog yn cael ei chadw hyd nes bod Gorchymyn wedi'i gadarnhau.
Hendre	Calchfaen	200m	Safle a ganiateir, gweithredol
Estyniad Chwarel Hendre	Calchfaen	200m	Dyraniad Arfaethedig – estyniad i'r chwarel bresennol

¹¹ PPW10 (paragraff 5.10.14): <https://llyw.cymru/sites/default/files/publications/2018-12/polisi-cynllunio-cymru-rhifyn-10.pdf>

Pant	Calchfaen	200m	Nid oes mwyn wedi'i gloddio yn y safle ers nifer o flynyddoedd. Datganwyd materion sefydlogrwydd. Er bod y safle'n ymgeisydd am waharddiad, bydd y glustog yn cael ei chadw hyd nes bod Gorchymyn wedi'i gadarnhau.
Pant y Pwll Dŵr	Calchfaen	200m	Safle a ganiateir, gweithredol
Estyniad Pant y Pwll Dŵr	Calchfaen	200m	Dyraniad Arfaethedig – estyniad i'r chwarel bresennol
Pen yr Henblas, Pen-y-Garreg a Bryn Blewog	Calchfaen	200m	Nid yw'r safle(oedd) wedi ei/eu gweithio ers 1996. Er bod y safle'n ymgeisydd am waharddiad, bydd y glustog yn cael ei chadw hyd nes bod Gorchymyn wedi'i gadarnhau
Liverpool Road/Catheralls	Clai/Siâl	100m	Mae'r safle'n anweithredol ac yn destun ROMP segur sy'n gysylltiedig â Chwarel Parry. Rhoddwyd y safle gerbron i'w gynnwys yn yr CDLI ar gyfer tai. Er bod y safle'n ymgeisydd am waharddiad, bydd y glustog yn cael ei chadw hyd nes bod Gorchymyn wedi'i gadarnhau
Pinfold Lane	Clai/Siâl	100m	Ni chydymffurfiodd y gweithredwr gyda chais am ragor o wybodaeth mewn perthynas â'r cais ROMP ac ystyrir ei fod bellach wedi darfod. Er bod y safle'n ymgeisydd am waharddiad, bydd y glustog yn cael ei chadw hyd nes bod Gorchymyn wedi'i gadarnhau
Stoney Beach	Clai/Siâl	100m	Rhoddwyd caniatâd cynllunio am gyfleuster gwastraff yn y chwarel sy'n destun Adran 106 sy'n atal cloddio mwynau. Er bod y safle'n cael ei ddatblygu at ddefnydd amgen, bydd y glustog yn cael ei chadw hyd nes bod caniatâd cynllunio wedi'i roi ar waith.
Ruby	Siâl	100m	Nid yw'r safle wedi'i weithio ers nifer o flynyddoedd ac mae wedi aildyfu'n naturiol. Er bod y safle'n ymgeisydd am waharddiad, bydd y glustog yn cael ei chadw hyd nes bod Gorchymyn wedi'i gadarnhau.
Ddol Uchaf	Tywod a Graean	100m	Mae'r safle'n segur ond mae'r gweithredwr wedi datgan eu bod yn bwriadu gweithio'r safle yn y dyfodol agos.
Estyniad Ddol Uchaf	Tywod a Graean	100m	Dyraniad arfaethedig – estyniad i'r chwarel bresennol
Fron Haul	Tywod a Graean	100m	Safle a ganiateir, gweithredol
Sandy Lane Farm, Kinnerton	Tywod a Graean	100m	Safle a ganiateir, gweithredol
Maes Mynan	Tywod a Graean	100m	Safle a ganiateir, gweithredol

7.1.2. Yn unol â gofynion PPW10 ac MTAN 1, dynodwyd clustog o gwmpas y safleoedd uchod ac fe'u dengys ar y mapiau cynigion. Gan nad oes angen chwythu yn unrhyw un o'r safleoedd uchod,

mae clustog o 100m wedi'i defnyddio. Datblygwyd Polisi EN24 i fodloni gofynion PPW10 ac MTAN 1 ac i alluogi unrhyw gynigion sy'n dod gerbron i gael eu hystyried heb gyfaddawdu gweithrediadau chwarelu. Nid yw dynodi clustog yn foratorium ar bob datblygiad ond mae'n gofyn am ddangos na fyddai unrhyw ddatblygiad a fyddai'n digwydd yn y parth clustogi'n rhwystro gweithrediadau chwarelu, naill ai trwy gyflwyno datblygiad sensitif neu trwy sterileiddio'n uniongyrchol ardaloedd a fyddai'n ofynnol i ddatblygu chwarelu.

8. Safleoedd Anweithredol

- 8.1.1. Ceir nifer o safleoedd anweithredol yn y Sir nad ydynt yn cloddio mwynau, fel y manylir yn Nhabl 2. Mae nifer o'r safleoedd hyn wedi'u hadfer neu wedi sicrhau caniatadau cynllunio amgen ac felly ni fyddant yn cael eu hystyried ymhellach. Dyma'r safleoedd sydd heb eu gweithio ers dros 2 flynedd:
- Grange;
 - Pant;
 - Pen yr Henblas;
 - Liverpool Road/Catheralls;
 - Pinfold Lane; a
 - Ruby.
- 8.1.2. Hen chwarel calchfaen yn Pantasaph yw safle'r Grange lle daeth y gwaith cloddio mwynau i ben nifer o flynyddoedd yn ôl. Deallir nad oes unrhyw weithgareddau'n digwydd yn y safle ond mae cronfeydd sylweddol o bosibl yn weddill. Ystyrir bod y safle'n ymgeisydd am waharddiad a bydd hyn yn cael ei ymchwilio ymhellach.
- 8.1.3. Chwarel calchfaen yn Halkyn dan berchnogaeth Tarmac yw Pant. Mae gwaith asffalt yn cael ei weithredu o'r safle ar hyn o bryd ond nid oes mwynau wedi'u gweithio yn y safle, gyda'r taniad olaf yn 2010. Mae cronfeydd cyfyngedig iawn yn weddill yn y safle. Nid yw adferiad yn y safle'n bwrw ymlaen yn amserol, ac mae cwrs gweithredu priodol wrthi'n cael ei ystyried gan yr Awdurdod Cynllunio Lleol. Mae disgwyl i'r adferiad yn y safle gael ei gwblhau erbyn 30 Ebrill 2025 a bydd angen ystyried yr union gam gweithredu'n ofalus gan yr Awdurdod Cynllunio Lleol. Er bod y safle'n ymgeisydd potensial am waharddiad, gallai cam gorfodi fod yn ffordd fwy priodol ymlaen yn yr achos hwn, yn dibynnu ar ganlyniad y trafodaethau gyda'r gweithredwr.
- 8.1.4. Mae gan Pen yr Henblas, sy'n cynnwys Pen y Garreg a Bryn Blewog, ganiatâd cynllunio i gloddio calchfaen. Mae Cyfeirnod Cais Cynllunio 98/14/1228 yn cynnig na fydd unrhyw weithio'n digwydd ar y safle hyd nes i gynllun gweithio ac adfer gael ei gyflwyno a'i gymeradwyo gan yr Awdurdod Cynllunio Mwynol. Mae'r safle bellach yn ffurfio rhan o Gomin Halkyn a SoDdGA

Glaswelltir Treffynnon ac AGA Mynydd Halkyn ac yn cynnal cynefin allweddol ar gyfer ystod o ffawna a fflora gan gynnwys y Fadfall Ddŵr Gribog sy'n Rhywogaeth Warchoddedig Statudol Ewropeaidd. Oherwydd y gwrthdaro rhwng gofynion adfer cynllunio a statws cadwraeth gyfreithiol y tir, nid aed ar drywydd adferiad gweithredol ac mae'r safle'n aildyfu'n naturiol.

- 8.1.5. Safle clai sy'n eiddo i Hanson yw Liverpool Road/Cartheralls ac nid yw erioed wedi'i weithio. Mae'r caniatâd cynllunio'n gysylltiedig â'r caniatâd yn Chwarel Parry sydd dan berchnogaeth wahanol ac sydd wedi arwain at beidio byth a phennu ROMP. Rhoddwyd y safle gerbron ar gyfer tai yn ystod Galwad am Safleoedd yr CDLI.
- 8.1.6. Safle clai dan berchnogaeth Brock Plc yw Pinfold Lane. Mae gan y safle ganiatâd cynllunio i ailgylchu gwastraff anweithredol mewn rhan o'r safle ac roedd yn destun cais tirlenwi a wrthodwyd ac yna a olyngwyd mewn apêl. Mae'r safle cyfagos, Chwarel Stoney Beach wedi sicrhau caniatâd cynllunio am ystod o ddefnyddiau rheoli gwastraff a defnyddir yr ardal ehangach ar gyfer amryw ddefnyddiau diwydiannol. Yn ystod yr Alwad am Safleoedd, cyflwynodd y tirlfeddiannwr y safle at ddefnyddiau cyflogaeth. Fodd bynnag, ceir darpariaeth ddigonolo dir cyflogaeth felly nid yw wedi'i gynnwys fel dyraniad yn yr CDLI. Fodd bynnag, mae'r safle wedi'i restru ym Mholisi EN21 fel safle mewn egwyddor sy'n addas at ddefnyddiau rheoli gwastraff.
- 8.1.7. Safle siâl yw Ruby Quarry sydd heb ei weithio ers nifer o flynyddoedd ac sydd wedi aildyfu'n naturiol dros amser. Mae caniatâd cynllunio a gyhoeddwyd ym 1996 yn gofyn am gyflwyno nifer o gynlluniau cyn y gall gweithio ddechrau ac mae'r Awdurdod Cynllunio Lleol eisoes wedi cytuno i ymestyn cyfnod cyflwyno'r Adolygiad gan nad yw'r safle'n weithredol.
- 8.1.8. Argymhellir adolygu safleoedd yn Sir y Fflint a chaiff datganiad ei gynnwys yng Nghyfiawnhad Polisi EN26 sy'n cadarnhau bod safleoedd sy'n segur neu'n anweithredol yn cael eu hadolygu a gorchmynion gwahardd yn cael eu cyhoeddi lle ystyrir bod hynny'n angenrheidiol.

9. Annog Defnyddio Deunyddiau Eraill yn lle adnoddau crai

9.1. Cyflwyniad

- 9.1.1. Mae PPW 10 yn nodi y dylid rhoi pwyslais penodol ar gynyddu'r defnydd o gynhyrchion amgen i ddeunyddiau crai lle bo'n briodol. Bydd y defnydd o agregau eilaidd ac wedi'u hailgylchu'n cael eu cefnogi trwy bolisiau DC Cyffredinol a'u hannog ymhellach trwy Bolisi EN27: Agreg Eilradd ac wedi'u Hailgylchu lle bydd cynigion ar gyfer rheoli agregau eilaidd ac wedi'u hailgylchu'n cael eu

cefnogi y tu allan i ffiniau'r anheddiad, ar yr amod eu bod yn bodloni nifer o feini prawf sydd a restrwyd yn y polisi.

10. Awdurdodau Cyfagos

- 10.1.1. Mae Sir y Fflint ar ffin nifer o wahanol awdurdodau gan gynnwys Sir Ddinbych, Wrecsam a Sir Gaer. Yn ddaearegol, mae yna debygrwydd rhwng Sir y Fflint a Wrecsam gyda meysydd glo helaeth, tywod a graean, Grut Melinfaen, calchfaen a chlai. Mae Gogledd Cymru'n allforiwr net o agregau gyda Sir y Fflint yn gyflenwr craig wedi'i malu bwysig yn y rhanbarth ac yn Lloegr gerllaw. Mae Adolygiad 1af y Datganiad Technegol Rhanbarthol yn sicrhau y gwneir darpariaeth ddigonol, gan ystyried gwerthiant dros y 10 mlynedd diwethaf sy'n cynnwys allforion y tu allan i Sir y Fflint a'r rhanbarth.
- 10.1.2. Ystyriwyd y dull a gymerwyd gan awdurdodau eraill: er enghraifft, mae Powys wedi penderfynu diogelu tywod a graean Categori 2 nad yw'n cael ei gynnig yn CDLI Sir y Fflint. Mae ansawdd a dosbarthiad tywod a graean llawer mwy cyfyngedig ym Mhowys o gymharu â Sir y Fflint, gan wneud adnoddau o ansawdd mwy gwael yn bwysicach o gofio maint a natur wledig y Sir.
- 10.1.3. Yn dibynnu ar ganlyniad 2^{il} adolygiad y Datganiad Technegol Rhanbarthol, hwyrach fod angen cydweithredu gydag awdurdodau cyfagos mewn perthynas â thywod a graean.

11. Monitro

- 11.1.1. Mae angen i CDLlau gynnwys Dangosyddion Craidd yn eu fframwaith monitro. Dynodir y dangosydd canlynol ar gyfer mwynau:

“Mae hyd a lled agregau crai o'r tir a ganiateir yn unol â'r Datganiad Technoleg Rhanbarthol ar gyfer Agregau wedi'u mynegi fel canran o'r cyfanswm gallu gofynnol fel y nodwyd yn y Datganiad Technegol Rhanbarthol (MTAN).”

APPENDIX 1

Flintshire County Council Candidate Sites Minerals Assessment (2015)

1. Purpose of this document

- 1.1. This document comprises a review of the sites contained on the Candidate Sites Register in respect of minerals. Minerals Planning Policy Wales, paragraph 13, requires local authorities to identify areas to be safeguarded on proposals maps and protect potential mineral resources from other types of permanent development which would either sterilise them or hinder extraction. The potential for extraction of minerals resources prior to undertaking other forms of development must also be considered.
- 1.2. The Candidate Sites Register identifies the sites submitted by landowners, developer, and other interested parties as potential development sites for inclusion in the LDP following a call for sites in 2015. The assessments contained in this document only consider the candidate sites in respect of minerals and do not consider any other aspects (such as ecology) which will also need to be considered prior to the Deposit stage of the LDP.

2. Methodology

- 2.1. A methodology has been developed to enable a consistent approach to be taken, however, at this stage of the LDP it would not be appropriate to definitively exclude (or otherwise) sites on the basis of the presence of minerals at this stage because there are many other factors which will affect the suitability of a site and the approach will need to evolve as the list of sites for inclusion within the LDP are finalised.

Data Sources

- 2.2. The bedrock geology, superficial geology and coal resources have all been mapped using the BGS Resource mapping data. Buffers of 100m have been applied to sand and gravel, 200m have been applied to hard rock and 500m have been applied to coal (1° and 2°). The resultant mapping is similar to the national Aggregates Safeguarding Maps produced by the BGS but enables the user to delineate between a site within a buffer and a site within a resource. The mapping also includes mineral which are not included within the national Aggregates Safeguarding Maps but which may be of local importance. It is also important to note that the national Safeguarding maps only relate to aggregates and do not therefore include all mineral of economic importance.

Traffic light system

- 2.3. A traffic light system has been used to help the non-mineral planner understand those sites for which minerals are of particular concern/importance. In order to ensure consistency when applying the traffic light system criteria have been developed which are shown in Table 1 below. At this stage of the LDP this is considered an appropriate method, however, as the LDP progresses, a more detailed consideration of sites against other LDP criteria will also be necessary.

Traffic light system and criteria

Meaning of colours

White = No mineral of economic importance, therefore minerals not relevant in this case.

Green = 4 or below

The development of the site will not compromise national safeguarding objectives because, for example, the site is either already sterilised by virtue of existing sensitive development or the mineral is of less importance.

Amber = 5 – 10

The development of the site may compromise national safeguarding objectives. The need for the development should be carefully considered against the need to protect the resource.

Red = 11 +

The development of the site will result in the loss of important mineral. The development of this site should only be considered where the development of the site can be fully justified or it should be demonstrated that there is no mineral of economic importance through a site investigation.

Minus points if adjacent (-2) or within (-3) settlement boundary

But points added if further work required

Minus points if totally sterilised

Criteria A: Type of mineral

Superficial geology:

S&G River terrace

S&G Glaciofluvial

Bedrock:

Limestone (high purity and other carboniferous)

Sandstone with potential for high PSV

Coal:

1° coal

2° coal

If the site is underlain by the minerals identified above = 3

Superficial geology

S&G glacial

Sub-alluvial

Bedrock:

Sandstone with potential for silica sand and silica rock

<p>Clay Slate</p> <p>If the site is underlain by the minerals identified above = 1</p> <p>Reasoning: The scoring above reflects the level of importance of the mineral. Limestone, for example, is identified as a category 1 resource within the National Aggregate Safeguarding Maps of Wales and is of strategic importance.</p>
<p><u>Criteria B: Size of site</u></p> <p>>3 ha = 3 1-3 ha = 1 <1ha = 0</p> <p>Reasoning: The size of the site will naturally affect how much mineral is sterilised. It will also affect whether it is viable to extract mineral prior to development.</p>
<p><u>Criteria C: Does the proposal include sensitive development?</u></p> <p>Yes = 3 No = 0</p> <p>Reasoning: Sensitive development, such as residential development, will not only sterilise mineral beneath it, but will also hinder extraction of the mineral around it due to the need to retain a suitable buffer between mineral extraction and sensitive development.</p>
<p><u>Criteria D: Will the development of the site sterilise a wider area?</u></p> <p>Yes = 3 No = 0</p> <p>Reasoning: Prior extraction may help avoid unnecessary sterilisation of mineral on the site being developed, however, it is unlikely to be feasible or desirable to require prior extraction on land adjacent to a development site.</p>

3. Key issues

Flintshire's Geology

- 3.1. Much of Flintshire is underlain by mineral of economic importance. There are significant resources of good quality coal at shallow depth, some of which have already been sterilised by non-mineral development. There are also extensive resources of limestone in the County, including high purity limestone outside of the AONB. There are also clay and sandstone resources, although the demand for these minerals has declined over time. Smaller areas of high quality sand and gravel are present within the County, have been exploited historically and are still worked at a small number of sites.

- 3.2. The implications of Flintshire's geology is that a large number of potential sites put forward for inclusion in the LDP are affected by the presence of mineral.

Proximal development

- 3.3. Non-mineral development can sterilise mineral by virtue of being close to it. Prior extraction can be considered in relation to coal and sand and gravel (for example) but can only take place on land within the control of the applicant. It is also unlikely to be desirable to require large areas of land to be worked simply because housing is going to be erected next to it (there will be impacts associated with the extraction itself). Prior extraction therefore isn't a panacea and the impact of development on adjacent mineral resources must also be considered carefully through the LDP process.

Bedrock geology

- 3.4. Prior extraction is unlikely to be desirable, so where a site falls within high purity limestone (and other carboniferous limestone), for example, it may need to be demonstrated that the need for the development outweighs the need for the resource, unless the mineral is already sterilised by virtue of proximal development (within 200m of the resource). Justification/further investigation may be necessary, although in some circumstances, for example where only a small area of a very large resource is sterilised (and the need for the allocation outweighs the need to protect the resource in terms of achieving the LDP strategy).

Superficial geology

- 3.5. Prior extraction may be feasible, particularly on larger sites (>3ha) although there is no absolute cut-off in terms of size. Factors to consider include whether a development would sterilise a wider area by virtue of proximal development or whether it is already sterilised.

Coal

- 3.6. Prior extraction (PE) may be feasible and desirable as it may address stability issues. PE can be undertaken on very small sites (<1ha), although proximity to sensitive receptors may be an issue. Due to the quality and limited distribution of 1° coal, there is a need to avoid unnecessary sterilisation. Where a site falls within 1° or 2° coal it will need to be considered against the justification test in MTAN 2 (para 39) unless it is located within an existing settlement

Site Ref	Name / location of Site	Site Area (ha)	Development or Protection	Minerals comments
AFN001	Maes Mynan Quarry, Afonwen	5.43	Minerals Development	Proposed extension to existing site. No existing residential properties in the buffer zone
AFN002	The Sawmills, A541, Afonwen	2.85	Housing & Mixed Use Development	underlain by suballuvial and glaciofluvial superficial S&G but PDL, however, the site is less than 200m from Maes Mynan Quarry existing quarry therefore would be in the buffer zone of Maes Mynan it would also potentially sterilise the sand resource to the south of Maes Mynan Quarry (also CS AFN001)
ALLT001	Land at Oakfield Cottage, Mold Road, Alltami	2.68	Housing & Mixed Use Development	underlain by primary shallow coal, consider prior extraction. Would potential sterilise a wider resource
ALLT002	Bryn Road, Alltami, Near Mold	1.04	Housing & Mixed Use Development	underlain by primary and secondary shallow coal resource - opportunities for Prior extraction should be explored Would potential sterilise a wider resource
ALLT004	Land off Alltami Road, Alltami	0.83	Housing & Mixed Use Development	underlain by primary shallow coal, consider prior extraction. Would potential sterilise a wider resource
ALLT005	Lower House Farm, White Farm Road, Alltami	0.59	Housing & Mixed Use Development	underlain by primary shallow coal, consider prior extraction. Would potential sterilise a wider resource
ALLT007	Land north of Bryn Road, Alltami	8.03	Housing & Mixed Use Development	underlain by primary and secondary shallow coal resource - opportunities for Prior extraction should be explored Would potential sterilise a wider resource
ALLT008	Land south of Alltami Farm, Alltami	1.5	Housing & Mixed Use Development	underlain by primary shallow coal, consider prior extraction. Would potential sterilise a wider resource
BAG001	Former Canton Depot, Pen y Maes Rd, Bagillt	0.98	Housing & Mixed Use Development	PDL underlain by sub alluvial superficial S&G and secondary shallow coal which may give rise to opportunities for PE. However PDL so may not be viable and the site is surrounded by other residential development therefore the resource is already sterilised. but PE may be possible
BAG002	Land adj Pen y Cefn, The Nant, Bagillt	0.79	Retail, Tourism & other Commercial	NMR
BAG003	Land at Bryn Hyfryd, Sandy Lane, Bagillt	0.32	Housing & Mixed Use Development	underlain by primary shallow coal and S&G - possibility for PE. Proposal would not sterilise resource

BAG005	Old Lead Mill, High Street, Bagillt	3.88	Housing & Mixed Use Development	On the site of Springhill Quarry still in restoration/aftercare. Underlain by shallow primary coal, glaciofluvial S&G and brick clay. Some of which may have been worked out already from previous quarrying activities if resources are still present consider PE
BAG006	Land at Gadllys Lane, Bagillt	0.65	Housing & Mixed Use Development	underlain by primary shallow coal - explore PE would not sterilise wider resource
BAG007	Wern Farm, Bagillt	1.67	Housing & Mixed Use Development	underlain by primary shallow coal - explore PE would not sterilise wider resource
BAG008	Land west of Victoria Park, Bagillt	0.92	Housing & Mixed Use Development	NMR
BAG009	Land east of Victoria Park, Bagillt	0.78	Housing & Mixed Use Development	Majority of the site underlain by sub alluvial superficial S&G could consider PE but would not sterilise wider resource as its already sterilised by existing development
BAG010	Old London Road, Bagillt	1.03	Housing & Mixed Use Development	underlain by primary shallow coal and superficial S&G - explore PE would not sterilise wider resource
BAG011	Land west of Riverbank, Bagillt	1.14	Housing & Mixed Use Development	Majority of the site underlain by sub alluvial superficial S&G could consider PE but would not sterilise wider resource as its already sterilised by existing development
BAG012	Land adj Maes Teg Farm, Pen y Maes Road, Bagillt	0.36	Housing & Mixed Use Development	underlain by secondary shallow coal, consider PE but as it's a small site and surrounded by development its unlikely to be feasible
BAG013	Ysgol Glan Aber, Bagillt	0.8	Other form of Unspecified Development	underlain by primary shallow coal, possibilities of PE should be explored but wider resource already sterilised by development
BAG014	Former Canton Depot, Pen y Maes Rd, Bagillt	1.11	Housing & Mixed Use Development	PDL underlain by sub alluvial superficial S&G and secondary shallow coal which may give rise to opportunities for PE. However PDL so may not be viable and the site is surrounded by other residential development therefore the resource is already sterilised. but PE may be possible
BAG015	Wern Farm, Bagillt	1.45	Housing & Mixed Use Development	underlain by primary shallow coal - explore PE

BRET002	Digby Farm, Bretton Lane, Bretton	3.18	Housing & Mixed Use Development	NMR
BRET003	Land south of Tri Ffordd, Chester Road, Bretton	8.65	Housing & Mixed Use Development	NMR
BROU001	Land between Retail Park, Bretton Road and A55, Broughton	4.95	Housing & Mixed Use Development	NMR
BROU003	Tanfield House, Old Warren, Broughton	0.42	Housing & Mixed Use Development	NMR
BROU004	Disused Aircraft Dispersal Area to the north of west factory	11.07	Employment Development	NMR
BROU005	Land north of Chester Road and west of newly constructed gate 3 access road, Broughton	4.48	Employment Development	NMR
BROU006	Land east side of junction of Manor Lane and Chester Road, Hawarden Industrial Park, Broughton	29.47	Employment Development	Primary Shallow Coal, 2ndary shallow coal - explore prior extraction as large site but would not sterilise wider resource
BROU007	Compound Site, west of Broughton Shopping Park	0.98	Housing & Mixed Use Development	NMR
BROU008	Land between Chester Road and slip road, north of Broughton Shopping Park	3.36	Retail, Tourism & other Commercial	NMR
BROU009	Land to east of Parc Jasmin and Bluestone Meadow, Broughton	2.12	Housing & Mixed Use Development	NMR
BROU010	Land to the south of Old Warren, Broughton	2.52	Housing & Mixed Use Development	NMR
BROU011	Warren Hall, Broughton	76.32	Housing & Mixed Use Development	Some of the site (north west section) is underlain by glaciofluvial sand and gravel explore prior extraction
BROU012	Land North of Broughton Retail Park, Broughton	1.8	Retail, Tourism & other Commercial	NMR
BROU013	Compound Site, Broughton	1.8	Housing & Mixed Use Development	NMR
BRYN001	Land rear of Delfryn, B5121, Brynford	0.52	Housing & Mixed Use Development	underlain by limestone but would not be feasible to work also underlain by glaciofluvial superficial S&G could consider Prior Extraction but may not be viable due to the size of the site

BRYN002	Land north of Hiraethog, Brynford	0.64	Housing & Mixed Use Development	underlain by limestone but would not be feasible to work also underlain by glaciofluvial superficial S&G could consider Prior Extraction but may not be viable due to the size of the site
BRYN005	Land to north and south of The Rectory, B5121, Brynford,	1.74	Housing & Mixed Use Development	underlain by high purity limestone and limestone however resource has already been sterilised by existing development
BRYN006	Former Ysgol Talfryn, Brynford	2.01	Housing & Mixed Use Development	underlain by high purity limestone however resource has already been sterilised by existing development
BUC001	Land rear of Crestonia, Liverpool Road, Buckley	0.5	Housing & Mixed Use Development	underlain by Secondary shallow coal, small site so prior extraction may not be appropriate, existing development has already sterilised the resource
BUC003	Land at Bryn Faigas Farm, Buckley	32.93	Housing & Mixed Use Development	partially underlain by primary shallow coal, large site should consider prior extraction, also could sterilise the resource to south of the site - further exploration needed
BUC004	Bistre Farm, Padeswood Road South, Buckley	29.99	Housing & Mixed Use Development	partially underlain by primary shallow coal, large site should consider prior extraction, also could sterilise the resource to south of the site - further exploration needed
BUC005	Stud Farm, Liverpool Road, Buckley	13.02	Other form of Unspecified Development	partially underlain by primary shallow coal, large site should consider prior extraction, wider resource sterilised by existing development
BUC006	Land north of A549 Chester Road & Dirty Mile, Buckley	14.56	Housing & Mixed Use Development	NMR
BUC009	Land at Rose Lane, Buckley, Flintshire	4.3	Housing & Mixed Use Development	NMR
BUC010	Land adj Hawthorn Cottage, Little Mountain Road, Buckley	0.56	Housing & Mixed Use Development	NMR
BUC012	Lower Padeswood Road, Buckley	3.26	Housing & Mixed Use Development	underlain by primary and secondary shallow coal, could sterilise a wider resource - further consideration required prior extraction should be considered]

BUC013	Land east of Precinct Way, Buckley Town Centre	1.85	Retail, Tourism & other Commercial	underlain by secondary shallow coal resource prior extraction should be considered but probably not feasible due to the size of the site and PDL and infill development within the settlement boundary. Any future largescale coal resource sterilised due to existing development
BUC014	Land adj 3 Mount Pleasant Road, Buckley	0.41	Housing & Mixed Use Development	Underlain by primary shallow coal, prior extraction should be considered but small site adjacent to the settlement boundary
BUC016	Land west of Birkdale Avenue / Aberllanerch Drive, Buckley	6.62	Housing & Mixed Use Development	Underlain by secondary shallow coal, prior extraction should be considered wider resource is already sterilised by existing development site adjacent to the settlement boundary
BUC017	Spon Green, Buckley	37.32	Housing & Mixed Use Development	underlain by primary shallow coal resource prior extraction should be considered especially since this is a large site. Any future largescale coal resource sterilised due to existing development
BUC018	Land adj Viandra, Bannel Lane, Buckley (inc Spitalfields)	0.7	Housing & Mixed Use Development	underlain by primary shallow coal resource prior extraction should be considered but probably not feasible due to the size of the site. Any future largescale coal resource sterilised due to existing development
BUC019	Land north of Pinfold Workshops, Pinfold Lane, Buckley (site 1)	4.11	Housing & Mixed Use Development	Underlain by secondary shallow coal, prior extraction should be considered wider resource is already sterilised by existing development site adjacent to the settlement boundary
BUC020	Land south of A494 (to east and west of Pinfold Lane, Buckley) (site 2)	57.6	Housing & Mixed Use Development	Proximity to Thorncliffe's at Ewloe Barns, Parry's Quarry (operational Landfill) and Brookhill Quarry. Major concerns in relation to existing operational waste sites and noise and also restored landfill and any leachate or landfill gases
BUC021	Airbus factory, junction of Drury New Road and Chester Road, Buckley	5.69	Housing & Mixed Use Development	Underlain by secondary shallow coal, prior extraction should be considered wider resource is already sterilised by existing development site partially within the settlement boundary

BUC022	Land between Liverpool Road, Ewloe Place and Catherall's Industrial Estate, Buckley	12.47	Housing & Mixed Use Development	NMR
BUC023	Land south of Bryn Awelon, Buckley	2.8	Housing & Mixed Use Development	NMR
BUC026	Land adj Viandra, Bannel Lane, Buckley	0.42	Housing & Mixed Use Development	underlain by primary shallow coal resource prior extraction should be considered but probably not feasible due to the size of the site. Any future largescale coal resource sterilised due to existing development
BUC027	Land south of The Collins, Little Mountain Road, Buckley	1.37	Housing & Mixed Use Development	NMR
BUC028	Land at Little Mountain Road / Bannel Lane. Buckley	5.54	Housing & Mixed Use Development	NMR
BUC029	Land to north west of Spon Green Farm, Megs Lane, Buckley	3.62	Housing & Mixed Use Development	underlain by primary shallow coal resource prior extraction should be considered. Any future largescale coal resource sterilised due to existing development
BUC030	Land between Bannel Lane and Chester Road, Buckley	5.07	Housing & Mixed Use Development	underlain by primary shallow coal resource prior extraction should be considered. Any future largescale coal resource sterilised due to existing development
BUC031	Well Street, Buckley	5.28	Housing & Mixed Use Development	50% of the site is underlain by secondary shallow coal. Prior extraction should be considered
BUC032	Land to south of Stud Farm, Liverpool Road, Buckley	1.76	Other form of Unspecified Development	Underlain by secondary shallow coal, prior extraction should be considered wider resource is already sterilised by existing development site adjacent to the settlement boundary
BUC033	The Stables, Well Street, Buckley	6.88	Housing & Mixed Use Development	NMR
BUC034	Old Cross Keys Farm, Chester Road, Buckley	1.15	Housing & Mixed Use Development	Underlain by secondary shallow coal, prior extraction should be considered but small site adjacent to the settlement boundary resource already sterilised by existing development
BUC035	Land between Liverpool Rd and Ewloe Place, Buckley	11.02	Housing & Mixed Use Development	NMR

BUC036	Land south of Well Street / Bryn Awelon, Buckley	7.72	Housing & Mixed Use Development	NMR
BUC037	Land between Chester Road and Bannel Lane, Buckley	4.71	Housing & Mixed Use Development	underlain by primary shallow coal resource prior extraction should be considered. Any future largescale coal resource sterilised due to existing development
BUC040	Somerfields, Buckley	0.39	Housing & Mixed Use Development	underlain by secondary shallow coal resource prior extraction should be considered but probably not feasible due to the size of the site and PDL and infill development within the settlement boundary. Any future largescale coal resource sterilised due to existing development
BUC041	Land south east of Water Treatment Works. Padeswood Road South, Buckley (2 of 3)	2.48	Housing & Mixed Use Development	Underlain by secondary shallow coal, prior extraction should be considered Could sterilise a wider resource, further investigations necessary
BUC042	Land to south Moel View Road, Padeswood Road South, Buckley (3 of 3)	4.91	Housing & Mixed Use Development	Underlain by Brick clay, extension of existing settlement boundary however could sterilise a wider coal resource to the east - further investigation required
BUC043	Pren & Aberllanerch Farms, Buckley	27.04	Housing & Mixed Use Development	majority of the site is underlain by secondary shallow coal, prior extraction should be considered, extension to the existing settlement boundary and would not sterilise a wider resource due to existing development
BUC044	Land south of Powell Road, Buckley	3.05	Housing & Mixed Use Development	Partially underlain by brick clay and primary shallow coal. Prior extraction of the coal should be considered, extension to the existing settlement boundary and would not sterilise a wider resource
BUC046	Jubilee Road, Buckley	0.45	Community Facility Development	underlain by secondary shallow coal resource prior extraction should be considered but probably not feasible due to the size of the site and PDL and infill development within the settlement boundary. Any future largescale coal resource sterilised due to existing development

CAE005	Summerhill Farm, Drovers Lane, Caerwys	1.94	Housing & Mixed Use Development	Underlain by high purity limestone but the resource has already been sterilised by the settlement of Caerwys, the candidate site would be an extension to the settlement
CAE006	Land to north of Summerhill Farm Caerwys	1.19	Housing & Mixed Use Development	Underlain by high purity limestone but the resource has already been sterilised by the settlement of Caerwys, the candidate site would be an extension to the settlement
CAE008	Land adj Telephone Exchange, Pen y Cefn Rd, Caerwys	4.49	Housing & Mixed Use Development	Underlain by high purity limestone but the resource has already been sterilised by the settlement of Caerwys, the candidate site would be an extension to the settlement
CAE009	Summerhill Farm, Drovers Lane, Caerwys	1.94	Housing & Mixed Use Development	Underlain by high purity limestone but the resource has already been sterilised by the settlement of Caerwys, the candidate site would be an extension to the settlement
CAR001	Halfway Field, Carmel, Holywell	2.17	Housing & Mixed Use Development	underlain by limestone but the resource is already sterilised by existing built development and the settlement of Carmel
CAR002	Land adj Garreglwyd, Carmel Hill, Carmel	0.58	Housing & Mixed Use Development	underlain by high purity limestone but the resource is already sterilised by existing built development and the settlement of Carmel
CIL001	Land to north of Lon Cilan, Cilcain	1.89	Housing & Mixed Use Development	underlain by high purity limestone but the resource is already sterilised by existing built development and the settlement of Cilcain - the CS would be an extension to the settlement
CIL002	Land west of Ffordd y Llan, Cilcain	4.11	Housing & Mixed Use Development	underlain by high purity limestone but the resource is already sterilised by existing built development and the settlement of Cilcain - the CS would be an extension to the settlement
CIL003	land north of Cilcain Lodge, Cilcain	0.39	Housing & Mixed Use Development	underlain by high purity limestone but the resource is already sterilised by existing built development
COE001	Land at Former Hepworths Industrial Site, Pontybodkin	3.59	Housing & Mixed Use Development	Underlain by secondary shallow coal and brick clay. Prior extraction should be considered but may not be appropriate the CS could sterilise a wider resource of coal to the west
COE003	Land to north of Bryn Awel, Coed Talon	1.32	Housing & Mixed Use Development	Underlain by secondary shallow coal. Prior extraction should be considered but may not be appropriate

COE005	Former Clwyd Alloys Works, Corwen Road, Coed Talon	2.28	Housing & Mixed Use Development	50% of the site Underlain by secondary shallow coal and 50% underlain by Sub alluvial superficial S&G resource. PDL Prior extraction should be considered but may not be appropriate
COE006	Station Yard / Depot, Coed Talon	1.49	Housing & Mixed Use Development	50% of the site Underlain by secondary shallow coal and 50% underlain by Sub alluvial superficial S&G resource. PDL Prior extraction should be considered but may not be appropriate
CON001	Quay Business Park, Dock Road, Connah's Quay	0.52	Other form of Unspecified Development	NMR inside settlement boundary and PDL
CON002	Broad Oak Holding, Mold Road, Connah's Quay, Flintshire	1.25	Housing & Mixed Use Development	Partially underlain by Glaciofluvial S&G should consider prior extraction but the site is small the wider S&G resource is already sterilised by existing development
CON003	Land off Barmouth Close, Connah's Quay	1.87	Housing & Mixed Use Development	NMR
CON004	Hillcrest, Broad Oak, Mold Road, Northop	1.03	Housing & Mixed Use Development	NMR
CON005	Top House, Golftyn Lane, Connah's Quay	1.31	Housing & Mixed Use Development	Partially underlain by brick clay and secondary shallow coal, prior extraction should be considered
CON006	Land south of Ivy Cottage, Golftyn Lane, Connah's Quay	1.13	Housing & Mixed Use Development	Partially underlain by secondary shallow coal, prior extraction should be considered
CON007	Land south west Bryn Gaer, Golftyn Lane, Connah's Quay	0.49	Housing & Mixed Use Development	Partially underlain by secondary shallow coal, prior extraction should be considered
CON008	Land to north of Hillcrest, Mold Road, Connah's Quay	2.54	Housing & Mixed Use Development	Partially underlain by Glaciofluvial S&G should consider prior extraction but the site is small
CON009	land west of Hillcrest, Mold Road, Connah's Quay	3.3	Housing & Mixed Use Development	Partially underlain by secondary shallow coal, prior extraction should be considered
CON010	Land on south side of Mold Road, Connah's Quay	3.76	Housing & Mixed Use Development	NMR
CON011	Land west of Llwyni Drive, Connah's Quay	6.17	Housing & Mixed Use Development	NMR

CON012	Land east of Kelsterton Hall, Connah's Quay	3.02	Housing & Mixed Use Development	underlain by brick , prior extraction should be considered but may not be feasible due to the size of the site
CON013	Land south and west of Kelsterton Farm, Connah's Quay	45.38	Housing & Mixed Use Development	Partially underlain by secondary shallow coal and brick clay, prior extraction should be considered
CON014	Land west of The Beeches, Wepre Lane, Connah's Quay	0.37	Housing & Mixed Use Development	NMR
CON016	Land east of Colomendy Farm, Wepre Lane, Connah's Quay	0.3	Housing & Mixed Use Development	NMR
CON017	Land north of Colomendy Farm, Wepre Lane, Connah's Quay	1.21	Housing & Mixed Use Development	NMR
CON018	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay	0.69	Housing & Mixed Use Development	NMR
CON019	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay	0.69	Housing & Mixed Use Development	NMR
CON020	Land east of Colomendy Farm, off Wepre Lane, Connah's Quay	7.61	Housing & Mixed Use Development	NMR
CON021	Land west of Llwyni Drive, Connah's Quay	13.76	Housing & Mixed Use Development	NMR
CON022	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay	0.69	Housing & Mixed Use Development	NMR
CON023	Land west of Llwyni Drive, Connah's Quay	13.76	Housing & Mixed Use Development	NMR
CON024	Land east of Colomendy Farm, off Wepre Lane, Connah's Quay	7.42	Housing & Mixed Use Development	NMR
CON025	Land east of Colomendy Farm, off Wepre Lane, Connah's Quay	7.61	Housing & Mixed Use Development	NMR
CON026	Land west of Llwyni Drive, Connah's Quay	13.76	Housing & Mixed Use Development	NMR

CON027	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay	0.69	Housing & Mixed Use Development	NMR
CON028	Land west of Llwyni Drive, Connah's Quay	13.76	Housing & Mixed Use Development	NMR
CON029	Land east of Colomendy Farm, off Wepre Lane, Connah's Quay	7.61	Housing & Mixed Use Development	NMR
CON030	Land west of Llwyni Drive, Connah's Quay	13.76	Housing & Mixed Use Development	NMR
CON031	Land east of Colomendy Farm, off Wepre Lane, Connah's Quay	7.61	Housing & Mixed Use Development	NMR
CON032	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay	0.69	Housing & Mixed Use Development	NMR
CON033	Land west of Llwyni Drive, Connah's Quay	13.76	Housing & Mixed Use Development	NMR
CON034	Land east of Colomendy Farm, off Wepre Lane, Connah's Quay	7.61	Housing & Mixed Use Development	NMR
CON035	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay	0.69	Housing & Mixed Use Development	NMR
CON036	Land west of Llwyni Drive, Connah's Quay	13.76	Housing & Mixed Use Development	NMR
CON037	Land east of Colomendy Farm, off Wepre Lane, Connah's Quay	7.61	Housing & Mixed Use Development	NMR
CON038	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay	0.69	Housing & Mixed Use Development	NMR
CON039	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay	0.69	Housing & Mixed Use Development	NMR
CON040	Land west of Llwyni Drive, Connah's Quay	13.76	Housing & Mixed Use Development	NMR

CON041	Land east of Colomendy Farm, Wepre Lane, Connah's Quay	7.61	Housing & Mixed Use Development	NMR
CON042	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay	0.69	Housing & Mixed Use Development	NMR
CON043	Land east of Colomendy Farm, off Wepre Lane, Connah's Quay	7.61	Housing & Mixed Use Development	NMR
CON044	Land west of Llwyni Drive, Connah's Quay	13.76	Housing & Mixed Use Development	NMR
CON045	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay	0.69	Housing & Mixed Use Development	NMR
CON046	Land east of Colomendy Farm, off Wepre Lane, Connah's Quay	8.93	Housing & Mixed Use Development	NMR
CON047	Land west of Cheriton Close and west of Llwyni Drive, Connah's Quay	4.96	Housing & Mixed Use Development	NMR
CON048	Land west of Llwyni Drive, Connah's Quay.	13.76	Housing & Mixed Use Development	NMR
CON049	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay.	0.69	Housing & Mixed Use Development	NMR
CON050	Land east of Colomendy Farm, off Wepre Lane, Connah's Quay	7.61	Housing & Mixed Use Development	NMR
CON051	Land west of Llwyni Drive, Connah's Quay	13.76	Housing & Mixed Use Development	NMR
CON052	Land east of Colomendy Farm, off Wepre Lane, Connah's Quay	7.61	Housing & Mixed Use Development	NMR
CON053	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay	0.69	Housing & Mixed Use Development	NMR
CON054	Land west of Llwyni Drive, Connah's Quay.	13.76	Housing & Mixed Use Development	NMR

CON055	Land east of Colomendy Farm, off Wepre Lane, Connah's Quay	7.61	Housing & Mixed Use Development	NMR
CON056	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay	0.69	Housing & Mixed Use Development	NMR
CON057	Land east of Colomendy Farm, off Wepre Lane, Connah's Quay	7.61	Housing & Mixed Use Development	NMR
CON058	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay	0.69	Housing & Mixed Use Development	NMR
CON059	Land west of Llwyni Drive, Connah's Quay	13.76	Housing & Mixed Use Development	NMR
CON060	Land east of Colomendy Farm, off Wepre Lane, Connah's Quay	7.61	Housing & Mixed Use Development	NMR
CON061	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay.	0.69	Housing & Mixed Use Development	NMR
CON062	Land west of Llwyni Drive, Connah's Quay.	13.76	Housing & Mixed Use Development	NMR
CON063	Land east of Colomendy Farm, off Wepre Lane, Connah's Quay.	7.61	Housing & Mixed Use Development	NMR
CON064	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay	0.69	Housing & Mixed Use Development	NMR
CON065	Land west of Llwyni Drive, Connah's Quay	13.76	Housing & Mixed Use Development	NMR
CON066	Land west of Llwyni Drive, Connah's Quay.	13.76	Housing & Mixed Use Development	NMR
CON067	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay.	0.69	Housing & Mixed Use Development	NMR
CON068	Land east of Colomendy Farm, off Wepre Lane, Connah's Quay.	7.61	Housing & Mixed Use Development	NMR

CON069	Land east of Colomendy Farm, off Wepre Lane, Connah's Quay	7.61	Housing & Mixed Use Development	NMR
CON070	Land west of Llwyni Drive, Connah's Quay	13.76	Housing & Mixed Use Development	NMR
CON071	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay	0.69	Housing & Mixed Use Development	NMR
CON072	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay.	0.69	Housing & Mixed Use Development	NMR
CON073	Land west of Llwyni Drive, Connah's Quay.	13.76	Housing & Mixed Use Development	NMR
CON074	Land east of Colomendy Farm, off Wepre Lane, Connah's Quay	7.61	Housing & Mixed Use Development	NMR
CON075	Land west of Llwyni Drive, Connah's Quay.	13.76	Housing & Mixed Use Development	NMR
CON076	Land east of Colomendy Farm, off Wepre Lane, Connah's Quay.	7.61	Housing & Mixed Use Development	NMR
CON077	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay	0.69	Housing & Mixed Use Development	NMR
CON078	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay	0.69	Housing & Mixed Use Development	NMR
CON079	Land east of Colomendy Farm, off Wepre Lane, Connah's Quay	7.61	Housing & Mixed Use Development	NMR
CON080	Land west of Llwyni Drive, Connah's Quay	13.76	Housing & Mixed Use Development	NMR
CON081	Land west of Llwyni Drive, Connah's Quay	13.76	Housing & Mixed Use Development	NMR
CON082	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay	0.69	Housing & Mixed Use Development	NMR
CON083	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay.	0.69	Housing & Mixed Use Development	NMR

CON084	Land east of Colomendy Farm, off Wepre Lane, Connah's Quay	7.61	Housing & Mixed Use Development	NMR
CON085	Land east of Colomendy Farm, off Wepre Lane, Connah's Quay	7.61	Housing & Mixed Use Development	NMR
CON086	Land west of Llwyni Drive, Connah's Quay	13.61	Housing & Mixed Use Development	NMR
CON087	Land south of Sidney Hall Court, off Llwyni Drive, Connah's Quay	0.69	Housing & Mixed Use Development	NMR
CON088	Land at Colomendy Farm, Wepre Lane, Connah's Quay	12.19	Housing & Mixed Use Development	Majority of the site NMR however to the north east of the site there is some secondary shallow coal and glaciofluvial S&G. Prior extraction should be considered. Wider resource is already sterilised by settlement.
CON089	Land to the north west of Connah's Quay Power Station, Connah's Quay.	26.57	Employment Development	partially underlain by some primary and secondary shallow coal and some brick clay, prior extraction should be considered
CON090	Land to the south east of Connah's Quay Power Station, Connah's Quay.	12.75	Employment Development	Underlain by primary shallow coal reserves. Prior extraction should be considered
CON091	Land to the rear of 79-83 Wepre Lane, Connah's Quay	0.7	Housing & Mixed Use Development	underlain by glaciofluvial superficial S&G and Primary/secondary coal but prior extraction may not be feasible due to size of site
CON092	Land to the rear of 45 to 73 Wepre Lane, Connah's Quay	2.31	Housing & Mixed Use Development	underlain by glaciofluvial superficial S&G and Primary/secondary coal but prior extraction may not be feasible due to size of site
CON093	Highmere Drive, Connah's Quay	5	Housing & Mixed Use Development	Partially underlain by primary and secondary shallow coal resource, prior extraction should be considered
CON094	Adj Fair Oaks Drive, Mold Road, Connah's Quay	2.96	Housing & Mixed Use Development	Partially underlain by Glaciofluvial S&G should consider prior extraction but the site is small the wider S&G resource is already sterilised by existing development
CON095	Ffordd Llanarth, Connah's Quay	0.64	Housing & Mixed Use Development	Underlain by primary shallow coal, however this is an infill development and prior extraction is probably not feasible but should be explored

DEE001	Land north of Weighbridge Road, DIP	88.14	Employment Development	NMR
DEE002	Land north of Shotwick Road, DIP	157.86	Employment Development	NMR
DEE003	Land south of Converter Station, Weighbridge Road, DIP	3.41	Employment Development	Primary shallow coal resource - consider prior extraction
DOB003	Wood House, south of Chester Road, Dobs Hill	2.69	Housing & Mixed Use Development	NMR some silica rock but would not be feasible to work
DOB004	former Depot, Chester Road, Dobshill	0.6	Housing & Mixed Use Development	NMR some silica rock but would not be feasible to work
DRU001	Land at Bank Lane/Meadow Avenue, Drury	1.78	Housing & Mixed Use Development	underlain by secondary shallow coal resource, wider resource already sterilised by existing development but prior extraction should be considered.
DRU002	Land at Drury New Road, Drury	7.77	Housing & Mixed Use Development	underlain by secondary shallow coal resource, wider resource already sterilised by existing development but prior extraction should be considered.
DRU004	Bank Lane Holding, Drury Lane, Drury	3.23	Housing & Mixed Use Development	underlain by secondary shallow coal resource, wider resource already sterilised by existing development but prior extraction should be considered.
DRU005	Land adjacent to Vestalia, Dinghouse, Drury	1.3	Housing & Mixed Use Development	underlain by secondary shallow coal resource, wider resource already sterilised by existing development but prior extraction should be considered.
DRU007	Dingle Farm, Drury Lane, Drury	6.11	Housing & Mixed Use Development	underlain by secondary shallow coal resource, wider resource already sterilised by existing development but prior extraction should be considered.
DRU008	Land south of Mornington Crescent, Drury	0.73	Housing & Mixed Use Development	underlain by secondary shallow coal resource, wider resource already sterilised by existing development but prior extraction should be considered but the site is small so may not be viable
DRU009	Land at Woodside Cottages, Bank Lane, Drury	0.5	Housing & Mixed Use Development	underlain by secondary shallow coal resource, wider resource already sterilised by existing development but prior extraction should be considered but the site is small so may not be viable
DRU011	land north of Homeleigh, Lower Farm, Drury	9.67	Housing & Mixed Use Development	partially underlain by secondary shallow coal, wider resource already sterilised but prior extraction should be considered

EWL002	Land on south side of Stamford Way, Ewloe	2.53	Retail, Tourism & other Commercial	NMR however a large resource of primary shallow coal is located to the south west of the site and therefore this CS could sterilise the resource - discuss with Coal Authority.
EWL003	Land between Chapel House and Landsdowne, Mold Road, Ewloe Green	0.53	Other form of Unspecified Development	The site is underlain by primary shallow coal, prior extraction should be considered
EWL004	Land off Old Hall Road/Greenhalls Avenue, Ewloe	1.98	Housing & Mixed Use Development	Partially underlain by glaciofluvial sand and gravel prior extraction should be considered wider resource already sterilised
EWL005	Land west of Kearsley Farm, Ewloe	10	Housing & Mixed Use Development	Partially underlain by glaciofluvial sand and gravel prior extraction should be considered wider resource already sterilised
EWL006	Land adj Gateway to Wales Services - A55/A494 Ewloe	4.32	Housing & Mixed Use Development	Adjacent to Parry's Quarry (operational landfill) proposed use Employment or housing?? Concerns re proximity to landfill site noise, and environmental concerns further discussion with NRW required
EWL007	Land between Old Aston Hill and A494, Ewloe	8.37	Housing & Mixed Use Development	The site is underlain by primary and secondary shallow coal resources and glaciofluvial S&G. Large site should consider prior extraction but it would not sterilise the resource surrounding the CS as this is already sterilised by existing development
EWL009	Lansdowne, Mold Road, Ewloe Green	0.78	Housing & Mixed Use Development	The site is underlain by primary shallow coal, prior extraction should be considered
EWL011	Transport Yard, Old Aston Hill, Ewloe	1	Housing & Mixed Use Development	The site is underlain by primary shallow coal resources and glaciofluvial S&G. this is a small site but still should consider prior extraction but it would not sterilise the resource surrounding the CS as this is already sterilised by existing development
EWL012	Land east side Old Liverpool Road, Ewloe Green	1.7	Housing & Mixed Use Development	The site is underlain by primary shallow coal, prior extraction should be considered
EWL013	Wood Lane, Hawarden	0.89	Housing & Mixed Use Development	The site is underlain by primary and secondary shallow coal, prior extraction should be considered

EWL014	Land to west of Kearsley Farm, Ewloe	10	Housing & Mixed Use Development	Partially underlain by glaciofluvial sand and gravel prior extraction should be considered wider resource already sterilised
EWL015	Land at Old Hall Road, Ewloe	1.97	Housing & Mixed Use Development	Partially underlain by glaciofluvial sand and gravel prior extraction should be considered wider resource already sterilised
EWL016	Land to the rear of Rose Villa, Green Lane, Ewloe Green	4.36	Housing & Mixed Use Development	The site is underlain by primary shallow coal, prior extraction should be considered
EWL017	Land west of Hilltop Close and south of Holywell Road, Ewloe	7.55	Housing & Mixed Use Development	The site is underlain by secondary shallow coal, prior extraction should be considered it could also sterilise coal resources to the north of the site
EWL020	Land adjacent and including Ivy Cottage, Green Lane, Ewloe Green	2.42	Housing & Mixed Use Development	The site is underlain by primary shallow coal, prior extraction should be considered
EWL021	Penarlag CP School, Ewloe	1.04	Other form of Unspecified Development	The site is underlain by glaciofluvial S&G, prior extraction should be considered but the site is very small so may not be feasible, would not sterilise wider resource
EWL022	Ewloe Green CP School	0.88	Other form of Unspecified Development	The site is underlain by primary shallow coal, prior extraction should be considered however this is a small site so it may not be viable would not sterilise a wider resource
EWL023	Land south of Kearsley Avenue, Ewloe	1.87	Housing & Mixed Use Development	The site is underlain by glaciofluvial S&G, prior extraction should be considered but the site is small so may not be feasible, would not sterilise wider resource
FFY001	Land opposite Former Vicarage, Llinegr Hill, Ffynnongroyw	0.83	Housing & Mixed Use Development	NMR
FFY002	Land to the west of Llinegr Hill, Ffynnongroyw	2.67	Housing & Mixed Use Development	NMR
FFY003	land adjoining Llinegr, Garth Lane, Ffynnongroyw	3.25	Housing & Mixed Use Development	mostly NMR eastern boundary underlain by sub-alluvial S&G deposits - explore prior extraction
FFY004	Land between A548, Main Road and Fairfield Avenue, Ffynnongroyw	0.52	Housing & Mixed Use Development	NMR

FFY005	Land east of tennis courts, Main Road, Ffynnongroyw	1.13	Housing & Mixed Use Development	NMR
FFY006	Land adjacent Elsinore, Fairfield Avenue, Ffynnongroyw	0.93	Housing & Mixed Use Development	NMR
FFY007	Land to the west of Fairfield Avenue, Ffynnongroyw	1.26	Housing & Mixed Use Development	NMR
FLI002	Pandy Garage, Chester Road, Oakenholt	0.49	Housing & Mixed Use Development	underlain by primary shallow coal, PDL in the settlement boundary therefore would not sterilise any wider resource
FLI003	Land at Coed Onn, Oakenholt	40.67	Housing & Mixed Use Development	underlain by primary shallow coal resource, large site which would sterilised the resource. prior extraction should be insisted due to the size of the site
FLI005	Land adjoining Manor Estate, Flint	1.58	Housing & Mixed Use Development	underlain by primary shallow coal - explore PE
FLI006	Leadbrook, Oakenholt, Flint	4.08	Housing & Mixed Use Development	underlain by primary shallow coal prior extraction should be considered
FLI007	Land at Northop Road, Flint	9.35	Housing & Mixed Use Development	underlain by a mix of resources brick clay, secondary shallow coal, river terrace and glaciofluvial S&G prior extraction should be considered
FLI008	Land at Bryn Farm, Holywell Road, Flint	28.41	Housing & Mixed Use Development	underlain by a mix of resources brick clay, primary and secondary shallow coal, glaciofluvial S&G prior extraction should be considered
FLI009	Mountain Park Hotel & Golf Course, Northop Road, Flint	20.82	Housing & Mixed Use Development	partially underlain by secondary shallow coal, and some glaciofluvial S&G with some brick clay, would not sterilise a wider resource but prior extraction should be considered
FLI010	Land south side of Chester Road, Oakenholt (site A)	1.02	Housing & Mixed Use Development	underlain by primary shallow coal resource, prior extraction should be considered
FLI012	Land at Glantraeth Farm, Chester Road, Oakenholt (Site B)	3.97	Housing & Mixed Use Development	Partially underlain by primary and secondary shallow coal, prior extraction should be considered
FLI013	Land west of Rockliffe Lane, Chester Road, Oakenholt (Site C)	2.7	Community Facility Development	Partially underlain by secondary shallow coal, prior extraction should be considered

FLI014	Land west of Greenbank Drive, Flint	3.69	Housing & Mixed Use Development	Partially underlain by brick clay and secondary shallow coal, prior extraction should be considered
FLI015	Land adj Bod Hyfryd Nursing Home, Northop Road, Flint	0.86	Housing & Mixed Use Development	underlain by brick clay
FLI016	Land north of Coed Onn Farm, Flint	8.67	Housing & Mixed Use Development	underlain by primary shallow coal resource, this would sterilise the coal resource so prior extraction should be considered
FLI017	Headlands Food, Unit 29, Castle Park Industrial Estate, Flint	2.32	Housing & Mixed Use Development	underlain by primary shallow coal - explore PE
FLI018	Land west of Nos. 1 to 52 Leadbrook Drive, Flint	4.84	Housing & Mixed Use Development	underlain by primary shallow coal resource, the wider resource has been sterilised already due to existing development prior extraction should be considered
FLI019	Land east of Coed Onn Farm and west of Leadbrook Drive, Flint	8.2	Housing & Mixed Use Development	underlain by primary shallow coal resource, this would sterilise the coal resource so prior extraction should be considered
FLI021	Land between 417 and 419 Chester Road, Oakenholt	2.77	Employment Development	underlain by primary shallow coal resource, so prior extraction should be considered
FMTN002	Land adj Ysgol Maes Edwin, Pentre Hill, Flint Mountain	1.54	Housing & Mixed Use Development	underlain by primary and secondary shallow coal with some brick clay. Would not sterilise a wider resource but prior extraction should be explored
FMTN003	Land at Pentre House, Pentre Hill, Flint Mountain	0.5	Housing & Mixed Use Development	underlain by glaciofluvial sand and gravel would not sterilise a wider resource but prior extraction should be considered
FMTN004	Land at Waen Farm, Y Waen, Flint Mountain	1.56	Housing & Mixed Use Development	underlain by brick clay would not sterilise a wider resource
FMTN005	Land west of Waen y Balls Farm, Y Waen, Flint Mountain	0.38	Housing & Mixed Use Development	underlain by glaciofluvial S&G and primary shallow coal. Wider resource would not be sterilised and the site may be too small for prior extraction to be feasible
GAR002	Sealand CP School, Garden City	0.95	Other form of Unspecified Development	underlain by primary shallow coal prior extraction may not be feasible PDL
GAR003	Land adj RAF Camp, Green Lane, Sealand	93.04	Retail, Tourism & other Commercial	NMR

GFD001	Land adj Coppy Farm, Gwernaffield Rd, Gwernaffield	3.04	Housing & Mixed Use Development	underlain by silica rock sterilised by the settlement
GFD002	Land opposite Bwlch y Ddeufryn, Cilcain Road, Gwernaffield	0.52	Housing & Mixed Use Development	underlain by silica rock and limestone sterilised by the settlement
GFD003	East side of Rhydymwyn Road, Gwernaffield	0.61	Housing & Mixed Use Development	underlain by silica rock sterilised by the settlement
GFD004	Land east of the Vicarage, Cilcain Road, Gwernaffield	1.16	Housing & Mixed Use Development	underlain by silica rock sterilised by the settlement
GFD005	Land ad Church Farm, Gwernaffield	3.86	Housing & Mixed Use Development	Very close proximity to Cefn Mawr Quarry. The candidate site is within the buffer zone of the Quarry. The high purity limestone at Cefn Mawr Quarry is noted as a nationally important strategic resource within MPPW. The quarry company own the farm house within the permission boundary to the south of the CS so in the future, should the quarry wish to extend the site, GFD005 would sterilise a nationally important strategic resource.
GFD006	Gwernaffield CP School	1.77	Other form of Unspecified Development	underlain by silica rock and limestone sterilised by the settlement
GFD007	Bryn Bellan, Bryn Road, Gwernaffield	0.53	Employment Development	underlain by glaciofluvial superficial S&G prior extraction may not be feasible due to size of site
GOR004	The Cedars, Gorsedd	1.39	Housing & Mixed Use Development	underlain entirely by high purity limestone but due to existing development and A55 its unlikely that the resource in this location would be feasibly worked. Existing development has sterilised this resource
GRE001	Land rear of Tai Drill, Rayon Rd, Bagillt	0.4	Housing & Mixed Use Development	underlain entirely by primary shallow coal but this is a tiny site so probably not economically viable for PE
GRE002	Tan y Felin, Greenfield	8.7	Housing & Mixed Use Development	underlain entirely by secondary shallow coal resource site would be suitable for PE also part of the site (about a third) is underlain by superficial glaciofluvial S&G consider PE this would also sterilise some resource to the north west

GRE005	Greenfield Dock	0.3	Retail, Tourism & other Commercial	underlain entirely by primary shallow coal but this is a tiny site so probably not economically viable for PE
GRE006	Land at Former Textile Mill, Holywell	2.39	Retail, Tourism & other Commercial	NMR
GRE008	Land west of Greenhill Farm, Bryn Celyn, Greenfield	11.48	Housing & Mixed Use Development	NMR
GRE009	Land south west of School Lane, Greenfield	0.98	Housing & Mixed Use Development	underlain entirely by secondary shallow coal resource site could be suitable for PE and superficial glaciofluvial S&G consider PE
GRE010	Coed Mawr Market Site, Greenfield	7.5	Retail, Tourism & other Commercial	entirely underlain by primary shallow coal PDL but consider prior extraction possible sterilisation issues with wider coal reserves - coal authority to advise -
GRE011	Land at Bryn Celyn, Greenfield Road, Holywell	2.3	Housing & Mixed Use Development	NMR
GRO001	Land between and to rear of Parkfield and Pen-y-Cefn, Llanasa Road, Gronant	1.08	Housing & Mixed Use Development	NMR
GRO002	Ysgol Gronant	1.26	Other form of Unspecified Development	NMR
GRO003	East of Gronant Hill, Gronant.	0.94	Housing & Mixed Use Development	NMR
GWAE001	Land at Cae Gwyn, Gwaenysgor	1.72	Housing & Mixed Use Development	Underlain by Limestone but extension to existing settlement not feasible to prior extract and would not sterilise resource due to existing settlement
GWE001	Adj Greengate, Gwespyr	0.91	Housing & Mixed Use Development	NMR
GWE002	Scrapyard on western edge of Gwespyr	1.56	Housing & Mixed Use Development	NMR
GYM001	Land to east of Waverley, Gwernymynydd	0.55	Housing & Mixed Use Development	No viable mineral resource - underlain by silica rock
GYM003	Llys Newydd, Gwernymynydd	1.59	Housing & Mixed Use Development	No viable mineral resource - underlain by silica rock
GYM004	Land to the rear of Uwch y Dre, Gwernymynydd	0.87	Housing & Mixed Use Development	NMR

HCAC001	Caerestyn Crossroads, bound by Gresford Road & Rhyddyn Hill	2.79	Housing & Mixed Use Development	partially underlain by silica rock, already sterilised by development
HCAC004	Land west of Wrexham Road, Abermorddu	3.51	Housing & Mixed Use Development	underlain by glaciofluvial S&G and primary shallow coal resource prior extraction should be considered. The proposal could also sterilise the wider resource to the south west
HCAC015	Land rear of Well House, Pigeon House Lane, Hope	2.75	Housing & Mixed Use Development	underlain by silica rock but already sterilised by existing development
HCAC016	Former Quarry, Fagl lane, Hope	48.19	Housing & Mixed Use Development	Restored sand quarry, sand resources still present but not extracted
HCAC017	Land side and rear of Greenacres, Wrexham Road, Hope.	2.96	Housing & Mixed Use Development	underlain by silica rock but already sterilised by existing development
HCAC018	Land south of No. 19 Rhyddyn Hill and west of Christian Mountain, Rhyddyn Hill.	3.7	Housing & Mixed Use Development	Underlain by primary and secondary shallow coal prior extraction should be considered existing development already sterilised this wider resource
HCAC021	Land west of Gwalia / Bryn Yorkin	1.35	Housing & Mixed Use Development	NMR
HCAC024	Abermorddu CP School	0.96	Other form of Unspecified Development	underlain by glaciofluvial and primary shallow coal reserves prior extraction should be considered but may not be viable
HCAC025	Land off Huxleys Lane, Hope	1.23	Housing & Mixed Use Development	underlain by silica rock but already sterilised by existing development
HCAC026	Land north of Bryn Issa, Gresford Road, Hope	0.32	Housing & Mixed Use Development	underlain by silica rock but already sterilised by existing development
HCAC028	Land on south side of junction Gresford Rd and Hope Hall Drive, Hope	1.44	Housing & Mixed Use Development	underlain by silica rock and some S&G but already sterilised by existing development
HCAC029	Land at Bryn Tirion, Mold Road, Caergwrle	2.04	Housing & Mixed Use Development	underlain by silica rock and some S&G but already sterilised by existing development should consider prior extraction of the glacio fluvial S&G
HK002	Land adj and South of Kinnerton Lane, Higher Kinnerton	2.97	Housing & Mixed Use Development	NMR

HK003	Land adj and south of Kinnerton Lane, Higher Kinnerton	16.28	Housing & Mixed Use Development	NMR however could sterilise the superficial glaciofluvial S&G deposits which are adjacent to the south west of the CS.
HK004	Land adj Old Rectory, Main Road, Higher Kinnerton	0.32	Housing & Mixed Use Development	NMR however could sterilise the bedrock S&G deposits which are adjacent to the east of the CS.
HK005	Land at Kinnerton Bank Farm, Sandy Lane, Higher Kinnerton	11.84	Housing & Mixed Use Development	Within buffer/on site of Kinnerton S&G Quarry. Would sterilise bedrock S&G reserve and resource surrounding the site this is a large site which would sterilise further bedrock S&G resources
HK006	Land between Bennetts Lane and Sandy Lane, Higher Kinnerton	1.72	Housing & Mixed Use Development	Some bedrock S&G to the south west of this CS only small amount but could sterilise a wider resource to the south
HK007	Land south of The Grange, Sandy Lane, Higher Kinnerton	3.11	Housing & Mixed Use Development	NMR
HK008	Land between Main Road and Sandy Lane, Higher Kinnerton.	2.47	Housing & Mixed Use Development	NMR
HK009	Land south of The Grange, Sandy Lane; and land between Main Road and Sandy Lane, Higher Kinnerton.	5.5	Housing & Mixed Use Development	NMR
HK010	Land west of Rosemount, Main Road, Higher Kinnerton	2.03	Housing & Mixed Use Development	NMR
HK011	Land at junction of Main Road and Sandy Lane, Higher Kinnerton	2.39	Housing & Mixed Use Development	NMR
HK012	Land adj The Grange, Sandy Lane, Higher Kinnerton	2.25	Housing & Mixed Use Development	NMR
HK013	Crabmill Farm, Leeches Lane, Higher Kinnerton	43.12	Housing & Mixed Use Development	Sub-alluvial superficial S&G, primary and secondary shallow coal resources consider Prior Extraction
HOL002	Land to rear of 174 Pen y Maes Road, Holywell	3.96	Housing & Mixed Use Development	NMR

HOL003	Land south of Pen y Ball Hill / Fron Park Road, Holywell	2.8	Housing & Mixed Use Development	Entire site underlain by sandstone but this would be an extension to the settlement so the resource has already been sterilised but existing built development furthermore it would be unlikely if it would be viable
HOL004	Land at Pen y Ball Hill/Coed y Fron, Holywell	4.55	Housing & Mixed Use Development	underlain by limestone and sandstone. This resource is partially sterilised by existing development but would potentially sterilise limestone resources to the south west
HOL005	Land Adj to Stamford Way, Holywell	1.2	Housing & Mixed Use Development	NMR
HOL008	Land north west of Coed Duon Nursing Home, Halkyn Road, Holywell	0.32	Housing & Mixed Use Development	NMR
HOL012	Land east of Community Hospital car park, Holywell	0.4	Housing & Mixed Use Development	NMR
HOL013	Land rear of Llesty Hospital, Holywell	0.72	Housing & Mixed Use Development	underlain by sandstone bedrock but would not be viable to extract due to existing built development to the east
HOL014	Bagillt Hall Farm / Wood Lane, Holywell	34.17	Housing & Mixed Use Development	northern part of the site (about a third) is underlain by shallow secondary coal resources, consider Prior extraction
HOL015	Land ad Wood Lane, Holywell	1.2	Housing & Mixed Use Development	NMR
HOL017	Land south of Ffordd Beuno, Holway, Holywell	1.1	Housing & Mixed Use Development	NMR
HOL018	Land to the north east of Nant Eos, Holway, Holywell	7.36	Housing & Mixed Use Development	NMR
HOL019	Ysgol Gwenffrwd, Holywell	0.81	Other form of Unspecified Development	NMR
HOL020	Llesty Hospital, Holywell	2.22	Housing & Mixed Use Development	Majority of the site NMR with a small amount of sandstone bedrock which would not be viable to extract. This resource has already been sterilised
HOL021	Strand Park, Holywell	0.63	Community Facility Development	NMR

HOL022	land adj to Brynford Hall Farm	0.32	Housing & Mixed Use Development	majority of the site is underlain by superficial glaciofluvial S&G possibility of PE but would not sterilise wider resource due to existing development - proposal would be an extension to housing
HWN001	Land rear of Aston Hall Farm, Lower Aston Hall Lane, Hawarden	18.03	Housing & Mixed Use Development	Partially underlain by primary and secondary shallow coal and glaciofluvial S&G, would not sterilised a wider resource but prior extraction should be considered
HWN002	Land rear of Aston Hall Farm, Lower Aston Hall Lane, Hawarden	0.3	Housing & Mixed Use Development	NMR
HWN003	Groomsdale Lane, Hawarden	0.48	Housing & Mixed Use Development	Underlain glaciofluvial S&G, would not sterilised a wider resource but prior extraction should be considered
HWN004	Land at Gladstone Way/Bennett's Lane, Hawarden	7.57	Housing & Mixed Use Development	Underlain entirely by primary and secondary shallow coal and glaciofluvial S&G, would not sterilised a wider resource but prior extraction should be considered
HWN005	Land between Gladstone Way & Ash Lane, Hawarden	15.25	Housing & Mixed Use Development	Underlain entirely by primary and secondary shallow coal with some glaciofluvial S&G, would not sterilised a wider resource but prior extraction should be considered
HWN006	Land adj to Hawarden Infants School	3.86	Housing & Mixed Use Development	Underlain by primary shallow coal resource and glaciofluvial S&G, would not sterilised a wider resource but prior extraction should be considered
HWN008	Land adj and incl The Coach House and Friars Gap, Groomsdale Lane, Hawarden.	0.71	Housing & Mixed Use Development	Underlain glaciofluvial S&G, would not sterilised a wider resource but prior extraction should be considered
HWN010	Land east of Groomsdale Cottage, Groomsdale Lane, Hawarden	0.35	Housing & Mixed Use Development	Underlain glaciofluvial S&G, would not sterilised a wider resource but prior extraction should be considered
HWN011	Land south east of Hillside, between Gladstone Way and Benett's Lane, Hawarden	1.09	Housing & Mixed Use Development	Underlain by primary shallow coal resource and glaciofluvial S&G, would not sterilised a wider resource but prior extraction should be considered

LEE001	Land adj Queens Farm, Dingle Road, Leeswood	5.06	Housing & Mixed Use Development	Underlain by primary shallow coal prior extraction should be considered existing development already sterilised this wider resource
LEE003	Land n/e of Windover, Stryt Cae Rhedyn, Leeswood	0.87	Housing & Mixed Use Development	NMR
LEE004	Land to side and rear of Wesley Methodist Church, King Street, Leeswood	1.37	Housing & Mixed Use Development	Underlain by secondary shallow coal prior extraction should be considered existing development already sterilised this wider resource
LEE005	Land rear of Wesley Methodist Church, Leeswood	5.18	Housing & Mixed Use Development	Underlain by primary and secondary shallow coal prior extraction should be considered existing development already sterilised this wider resource
LEE006	Ysgol Derwenfa, Leeswood	1.64	Other form of Unspecified Development	NMR
LEE007	Land adj Ffordd Siarl, Leeswood	1.59	Housing & Mixed Use Development	underlain by brick clay but infill development within the settlement boundary
LFD001	Land to rear of Old Post Office, Llanfynydd	0.59	Housing & Mixed Use Development	NMR
LIX001	Land north west of Tan y Graig, Lixwm	1.17	Housing & Mixed Use Development	Underlain by high purity limestone but already sterilised by existing development, infill development and an extension of the settlement boundary
LIX003	Maes y Goron, Lixwm	0.79	Housing & Mixed Use Development	Underlain by high purity limestone but already sterilised by existing development, infill development and an extension of the settlement boundary
LIX005	Land north of Hillbank, Ffordd Walwen, Lixwm	0.53	Housing & Mixed Use Development	Underlain by high purity limestone but already sterilised by existing development, infill development and an extension of the settlement boundary
LIX006	Land to the rear of Llwyn Onn, Lixwm	1.37	Housing & Mixed Use Development	Underlain by high purity limestone but already sterilised by existing development, infill development and an extension of the settlement boundary

LIX007	Land to north of Llys Ifor, Lixwm	0.59	Housing & Mixed Use Development	Underlain by high purity limestone but already sterilised by existing development, infill development and an extension of the settlement boundary
LIX008	School playing fields	1.11	Other form of Unspecified Development	Underlain by high purity limestone but already sterilised by existing development, infill development and an extension of the settlement boundary
LLOC001	Land adjoining Garfield House	0.41	Housing & Mixed Use Development	underlain entirely by high purity limestone but due to existing development it is unlikely that the resource in this location would be feasibly worked. Existing development has sterilised this resource
LNG001	Land west of 1-5 Stone Row, Llong	0.5	Housing & Mixed Use Development	Site underlain by S&G, small site may not be feasible for prior extraction but should be explored
MAN001	Land between Mancot Lane and Mancot Way, Mancot	1.55	Housing & Mixed Use Development	Underlain by primary and secondary shallow coal. Prior extraction should be explored but this is a small site so may not be feasible. Would not sterilise wider resource due to existing built development
MAN002	Land between Mancot Lane & Willow Park, Mancot	21.15	Housing & Mixed Use Development	Underlain by primary and secondary shallow coal. Large site Prior extraction should be explored. Would not sterilise wider resource due to existing built development
MAN003	Land between Aston Hill & A550	37.05	Housing & Mixed Use Development	Underlain by primary and secondary shallow coal. Large site Prior extraction should be explored. Would not sterilise wider resource due to existing built development
MAN004	Land to east of Leaches Lane, Mancot Royal	6.01	Housing & Mixed Use Development	underlain by primary shallow Coal resource and brick clay. Potential for prior extraction of coal It would not sterilise a wider resource due to existing built development
MAN005	Mancot Farm/Greenacres Farm	7.05	Housing & Mixed Use Development	underlain by primary shallow Coal resource. Potential for prior extraction of coal It would not sterilise a wider resource due to existing built development
MAN006	Land adj Mancot Way / Foxes Close, Mancot	0.92	Housing & Mixed Use Development	Small site underlain by brick clay, primary and secondary coal. Prior extraction is possible but very small site may not be feasible

MOL001	Bryn yr Haul Cottage, Rhydgaled, Argoed Hill, Main Road, Mold	0.69	Housing & Mixed Use Development	Majority of the site is a greenfield site outside of the settlement boundary however this is a small site underlain by primary/secondary shallow coal and brick clay but it would not sterilise a wider resource and the site is small
MOL002	Land between Ruthin Road and Plas Anney, Mold	5.4	Housing & Mixed Use Development	greenfield site adjacent to the settlement boundary Underlain by Brick Clay and Glaciofluvial S&G Prior extraction should be considered
MOL003	Land south of Cwrt Rhyd y Galed, Mold	8.54	Housing & Mixed Use Development	Greenfield site but adjacent to the existing settlement boundary
MOL004	Land north of Wood Green, Mold	0.86	Housing & Mixed Use Development	Greenfield site but adjacent to the existing settlement boundary underlain by primary shallow coal and Glaciofluvial S&G. Prior extraction should be considered but v small site may mean it is not viable
MOL005	Land north of junction of A494 and Ruthin Road, Mold	8.27	Housing & Mixed Use Development	large greenfield site outside of the settlement boundary Underlain by Brick Clay and Glaciofluvial S&G Prior extraction should be considered
MOL006	Land south of The Haven, off Upper Bryn Coch, Mold	1.62	Housing & Mixed Use Development	small Greenfield site just adjacent to the settlement boundary Underlain by Brick Clay and Glaciofluvial S&G Prior extraction should be considered
MOL007	Land off Cilnant, Queens Park, Mold	4.49	Housing & Mixed Use Development	Greenfield site just adjacent to the settlement boundary No viable mineral resources
MOL008	Llyn y Glyn Fields, Denbigh Road, Mold	3.3	Housing & Mixed Use Development	Greenfield site but within the settlement boundary Underlain by Brick Clay and partially by Glaciofluvial S&G Prior extraction should be considered
MOL009	Mold Football Ground, Denbigh Road, Mold	3.41	Housing & Mixed Use Development	Greenfield site but within the settlement boundary underlain by Sub alluvial and glaciofluvial S&G, primary shallow coal and brick clay prior extraction should be explored
MOL010	Land south of Chester Road, Mold	0.71	Retail, Tourism & other Commercial	PDL within the Settlement boundary

MOL011	Land south of junction of A494 and Wrexham Road, Mold	7.95	Housing & Mixed Use Development	large greenfield site outside of the settlement boundary however underlain by brick clay, primary shallow coal and suballuvial and fluvial S&G resources. This CS would sterilise the wider resources to the south. Prior extraction should be considered if the site comes forward in the plan
MOL013	Alun Meadows, Love Lane, Mold	1.89	Housing & Mixed Use Development	Greenfield site but within the settlement boundary underlain by Sub alluvial and glaciofluvial S&G, primary shallow coal and brick clay prior extraction may be feasible but this is a small site surrounded by built development
MOL014	Land south of Cwrt Rhyd y Galed, Mold	8.54	Housing & Mixed Use Development	Greenfield site but adjacent to the existing settlement boundary partially underlain by Primary/secondary shallow coal, brick clay and Glaciofluvial S&G. Prior extraction could be explored would not sterilise a wider resource
MOL016	Former Driving Centre, St. David's Lane, Mold	0.41	Housing & Mixed Use Development	PDL within the Settlement boundary
MOL017	County Hall, Raikes Lane, Mold	12.18	Housing & Mixed Use Development	PDL within the Settlement boundary some of the site is underlain by glaciofluvial S&G and primary/secondary shallow coal, would not sterilise wider resource but prior extraction should be considered
MOL019	Penybont Farm, Chester Road, Mold	13.4	Retail, Tourism & other Commercial	Greenfield site but within the settlement boundary. Large site which prior extraction could be feasible; sub alluvial and glaciofluvial S&G, Primary and Secondary Shallow Coal and Brick clay. Prior extraction should be considered
MOL020	Maes Gwern, Mold Business Park, Mold	5.75	Housing & Mixed Use Development	Greenfield site but within the settlement boundary Underlain by Brick Clay and Glaciofluvial S&G Prior extraction should be considered
MOL024	Land on western edge of Mold, south of Gwernaffield Road	13.17	Housing & Mixed Use Development	Large greenfield site adjacent to the settlement boundary - Partially underlain by brick clay, secondary shallow coal and Glaciofluvial S&G, prior extraction of coal and sand should be explored

MOL025	Land between Factory Pool Lane and Gwernaffield Road, Mold	8.28	Housing & Mixed Use Development	Relatively large greenfield site adjacent to the settlement boundary underlain by brick clay, secondary shallow coal and glacio fluvial sand and gravel. Prior extraction of coal and S&G should be explored
MOL026	Land opposite Synthite, Denbigh Road, Mold	3.3	Community Facility Development	Greenfield site but within the settlement boundary Underlain by Brick Clay and partially by Glaciofluvial S&G Prior extraction should be considered
MOL027	Mold Football Ground, Denbigh Road, Mold	3.41	Housing & Mixed Use Development	Greenfield site but within the settlement boundary underlain by brick clay, primary shallow coal and sub alluvial S&G. prior extraction of coal and sand should be explored
MOL028	Police Station, King Street, Mold	0.62	Housing & Mixed Use Development	PDL within the Settlement boundary
MOL029	Car park, New Street, Mold	2.56	Housing & Mixed Use Development	PDL within the Settlement boundary
MOL030	Cattle Market, King Street, Mold	0.46	Retail, Tourism & other Commercial	PDL within the Settlement boundary
MOL031	Queens Park Hendy Road, Mold	1.64	Housing & Mixed Use Development	Underlain by brick clay Greenfield site but within the settlement boundary small site not realistic to request prior extraction
MOL038	Ysgol Delyn, Alexandra Road, Mold	2.64	Community Facility Development	PDL within the Settlement boundary
MOL039	Post Office, Earl Road, Mold	0.31	Employment Development	PDL within the Settlement boundary
MOL040	Land between Upper Bryn Coch and Llys Ambrose, off Ruthin Road, Mold.	1.59	Housing & Mixed Use Development	Small greenfield site adjacent to settlement boundary Underlain by Brick Clay and Glaciofluvial S&G Prior extraction should be considered
MOL041	Land west of Hawthorn Avenue and Elm Drive, Mold.	12.14	Housing & Mixed Use Development	Greenfield site adjacent to the settlement boundary, southern park of the site is within the settlement boundary, partially underlain by brick clay, secondary shallow coal and Glaciofluvial S&G, prior extraction of sand and coal should be explored
MOL043	Land between Smurfit Kappa and G C Hahn Ltd, Maes Gwern, Mold Business Park, Mold	4.58	Housing & Mixed Use Development	Greenfield site but within the settlement boundary Underlain by Brick Clay and with some Glaciofluvial S&G Prior extraction probably not viable but should be explored

MOL044	Land opposite Pool House, Denbigh Road, Mold	3.93	Housing & Mixed Use Development	Greenfield site adjacent to the settlement boundary partially underlain by secondary shallow coal and sand and gravel- prior extraction should be explored
MOL045	Land west of Beechwood Close and Alwyn Close, Mold	8.28	Housing & Mixed Use Development	Relatively large greenfield site adjacent to the settlement boundary underlain by brick clay, secondary shallow coal and glacio fluvial sand and gravel. Prior extraction of coal and S&G should be explored
MOL046	Land west of Ivy Crescent and Hawthorn Avenue, Mold	2.67	Housing & Mixed Use Development	Greenfield site adjacent to the settlement boundary, southern park of the site is within the settlement boundary, partially underlain by brick clay, secondary shallow coal and Glaciofluvial S&G, prior extraction of sand and coal should be explored however this is a smaller site and the prior extraction may not be feasible
MOL047	Land south of Gwernaffield Road and east of Maes Garmon Lane	12.78	Housing & Mixed Use Development	Large greenfield site just outside of the settlement boundary partially underlain by brick clay, secondary shallow coal and glaciofluvial S&G prior extraction of the sand and coal should be explored
MOL048	Land south of Hendy Road and west of Tan Y Graig, Mold	4.27	Housing & Mixed Use Development	Greenfield site just adjacent to the settlement boundary partially underlain by Brick clay but otherwise NMR
MOL050	Former Kwik Save site and adjacent Rugby Club land, Chester Road, Mold	5.58	Retail, Tourism & other Commercial	Majority of the site is within the settlement boundary, the eastern part of the site is outside of the settlement boundary and is agricultural land however the majority is PDL within the settlement boundary
MOL051	Land north of Ruthin Road, Mold	2.94	Housing & Mixed Use Development	greenfield site outside of the settlement boundary - Underlain by Brick Clay and Glaciofluvial S&G Prior extraction should be considered
MOL052	Land between Upper Bryn Coch House and The Haven, Mold	4.42	Housing & Mixed Use Development	greenfield site outside of the settlement boundary - Underlain by Brick Clay and Glaciofluvial S&G Prior extraction should be considered
MOL053	Land east of Hendy Farm, Hendy Road, Mold	2.65	Housing & Mixed Use Development	Small greenfield site outside of settlement boundary - NMR

MOL054	Land north of Hendy Farm, Hendy Road, Mold	1.19	Housing & Mixed Use Development	Small greenfield site outside of settlement boundary - NMR
MOL055	Land west of Hendy Farm, Hendy Road, Mold	0.55	Housing & Mixed Use Development	Small greenfield site outside of settlement boundary - NMR
MOL056	Land at Pen-Y-Bont, Chester Road, Mold	11.66	Housing & Mixed Use Development	Green field site but in settlement boundary. Large site which prior extraction could be feasible; sub alluvial and glaciofluvial S&G, Primary and Secondary Shallow Coal and Brick clay. Prior extraction should be considered
MOL057	Land at Tre-Beirdd Farm, Maes Gwern, Mold	5.75	Housing & Mixed Use Development	Greenfield site but within the settlement boundary Underlain by Brick Clay and Glaciofluvial S&G Prior extraction should be considered
MOS001	Bychton Hall Farm, West of Ffordd Pennant, Maes Pennant, Mostyn	0.91	Housing & Mixed Use Development	Site entirely underlain by primary shallow coal and secondary shallow coal resource - explore prior extraction the CS would also sterilise coal resources surrounding the site
MOS002	Land at Ffordd Pennant, Maes Pennant, Mostyn	2.22	Housing & Mixed Use Development	Site entirely underlain by primary shallow coal and secondary shallow coal resource - explore prior extraction the CS would also sterilise coal resources surrounding the site
MOS003	Land to south of Depot, Glan y Don, Coast Road, Mostyn	0.67	Housing & Mixed Use Development	Site entirely underlain by primary shallow coal and secondary shallow coal resource - explore prior extraction would not sterilise wider resource due to existing development - extension to existing settlement
MOS004	Land adj Penrho Hall, Hafod y Ddol, Mostyn	1.04	Housing & Mixed Use Development	Site entirely underlain by primary shallow coal and secondary shallow coal resource - explore prior extraction would not sterilise wider resource due to existing development - extension to existing settlement
MOS005	Land west of Glanasaph Terrace, A548, Mostyn	1.25	Housing & Mixed Use Development	Site entirely underlain by primary shallow coal and secondary shallow coal resource - explore prior extraction would not sterilise wider resource due to existing development - extension to existing settlement

MOS006	Land rear of 8 to 24 Hafod Y Ddol, Mostyn	1.63	Housing & Mixed Use Development	Site entirely underlain by primary shallow coal and secondary shallow coal resource - explore prior extraction the CS would also sterilise coal resources surrounding the site
MYN001	Land south of Bryn-y-Baal Road and east of A494, Mynydd Isa	7.08	Housing & Mixed Use Development	underlain by shallow primary and secondary coal prior extraction should be considered
MYN003	Land north of Issa Farm, Mynydd Isa	2.85	Housing & Mixed Use Development	underlain by shallow primary coal prior extraction should be considered. Wider resource already sterilised by existing development
MYN005	Land adj 162 Mold Road, Mynydd Isa	0.43	Housing & Mixed Use Development	underlain by shallow primary coal prior extraction should be considered. Wider resource already sterilised by existing development
MYN007	Highfield Farm, Bryn Road Mynydd Isa	0.33	Housing & Mixed Use Development	underlain by shallow primary coal but prior extraction unlikely feasible due to the size of the site
MYN008	Land off Bryn Y Baal Road, Mynydd Isa	1.01	Housing & Mixed Use Development	underlain by shallow primary and secondary coal but prior extraction unlikely feasible due to the size of the site
MYN009	Rose Lane, Mynydd Isa	1.86	Housing & Mixed Use Development	underlain by shallow secondary coal and sub alluvial superficial S&G prior extraction should be considered but unlikely to be feasible
MYN013	North of Issa Farm, Bryn y Baal	2.85	Housing & Mixed Use Development	underlain by shallow primary coal prior extraction should be considered. Wider resource already sterilised by existing development
MYN014	Ysgol Uwchradd Argoed High School, Mynydd Isa	2.38	Other form of Unspecified Development	underlain by shallow primary coal but prior extraction unlikely feasible due to the size of the site
NAN001	Land rear of Bryn Dedwydd, Village Road, Nannerch	0.35	Housing & Mixed Use Development	underlain by high quality limestone and glaciofluvial superficial S&G prior extraction may not be feasible due to size of site resource already sterilised by existing development, the CS would be an extension to the existing settlement boundary
NAN003	Land between Nannerch Hall and Pen y Felin Rd, Nannerch	0.96	Housing & Mixed Use Development	underlain by high quality limestone and glaciofluvial superficial S&G prior extraction may not be feasible due to size of site resource already sterilised by existing development, the CS would be an extension to the existing settlement boundary

NAN005	Land north side Pen y Felin Road, Nannerch	0.63	Housing & Mixed Use Development	underlain by high quality limestone and glaciofluvial superficial S&G prior extraction may not be feasible due to size of site resource already sterilised by existing development, the CS would be an extension to the existing settlement boundary
NAN007	Land west of Pen Y Coed, Nannerch	1.74	Housing & Mixed Use Development	underlain by high quality limestone and glaciofluvial superficial S&G prior extraction may not be feasible due to size of site resource already sterilised by existing development, the CS would be an extension to the existing settlement boundary
NER001	Land adj Ger y Pistll, Off Village Road, Nercwys	3.33	Housing & Mixed Use Development	no viable mineral resource Underlain by brick clay
NER002	Pistyll Far, Nercwys	0.38	Employment Development	no viable mineral resource Underlain by brick clay
NER003	Land west of Hendre Ucha, Ffordd Y Pentre, Nercwys	0.55	Housing & Mixed Use Development	no viable mineral resource Underlain by brick clay and some S&G but very small site would be unlikely to be appropriate for prior extraction
NER004	Land adj Hill View, Ffordd Y Pentre, Nercwys	0.63	Housing & Mixed Use Development	no viable mineral resource Underlain by brick clay and some S&G but very small site would be unlikely to be appropriate for prior extraction
NER006	Land west of Tan Y Rhos and Church View, Ffordd Y Pentre, Nercwys	0.85	Housing & Mixed Use Development	no viable mineral resource Underlain by brick clay
NEW001	Land east of Green Haven, A5119, New Brighton	1.95	Housing & Mixed Use Development	NMR
NEW002	Parcel of land at Mynydd Bychan, New Brighton Road, New Brighton	0.55	Housing & Mixed Use Development	primary and secondary shallow coal - explore prior extraction
NEW003	Land between Moorcroft Estate and A494, New Brighton	3.234	Housing & Mixed Use Development	Partially underlain by primary shallow coal, should explore prior extraction
NEW004	Land between New Brighton Road and A5119, New Brighton	1.69	Housing & Mixed Use Development	Partially underlain by primary shallow coal, should explore prior extraction
NEW005	Land east of Cae Derwen, New Brighton	0.87	Housing & Mixed Use Development	underlain by primary shallow coal explore prior extraction
NEW007	Land west of Bryn Offa Farm, New Brighton	0.55	Housing & Mixed Use Development	NMR

NEW009	Land adj Green Haven, Main Road, New Brighton	1.95	Housing & Mixed Use Development	NMR
NEW010	Land adj Argoed View, New Brighton	3.24	Housing & Mixed Use Development	underlain by primary shallow coal explore prior extraction
NEW011	Land between Moorcroft and A494(T), New Brighton	4.11	Housing & Mixed Use Development	Partially underlain by primary shallow coal, should explore prior extraction
NEW013	Land to the west of Cae Isa, New Brighton.	3.52	Housing & Mixed Use Development	Partially underlain by primary shallow coal, should explore prior extraction
NH001	Land south west of Institute Lane, Northop Hall	2.03	Housing & Mixed Use Development	Underlain by secondary shallow coal, would not sterilise wider resource due to existing development, proposal would be an extension to the settlement boundary but prior extraction should be considered
NH002	Land on south side of Village Road, Northop Hall	1.34	Housing & Mixed Use Development	Underlain by secondary shallow coal, would not sterilise wider resource due to existing development, proposal would be an extension to the settlement boundary but prior extraction should be considered
NH003	Land off Bryn Gwyn Lane, Northop Hall	3.14	Housing & Mixed Use Development	NMR
NH004	Land adj St Charles Cottage, Smithy Lane, Northop Hall	3.32	Housing & Mixed Use Development	Underlain by primary and secondary shallow coal, could sterilise wider resource to the north, proposal would be an extension to the settlement boundary but prior extraction should be considered
NH006	Land north side of Bryn Gwyn Lane, Northop Hall	1.87	Housing & Mixed Use Development	Partially underlain by primary shallow coal, should explore prior extraction
NH007	Land south side of Bryn Gwyn Lane, Northop Hall	3.02	Housing & Mixed Use Development	Underlain by primary and secondary shallow coal, could sterilise wider resource to the north, proposal would be an extension to the settlement boundary but prior extraction should be considered
NH008	Land at Wellfield Farm, Village Road, Northop Hall	6.41	Housing & Mixed Use Development	Underlain by secondary shallow coal, would not sterilise wider resource due to existing development, proposal would be an extension to the settlement boundary but prior extraction should be considered

NH009	Former Galchog Colliery Site, Village Road, Northop Hall	1.9	Housing & Mixed Use Development	Underlain by secondary shallow coal, would not sterilise wider resource due to existing development, proposal would be an extension to the settlement boundary but prior extraction should be considered
NH010	Land to south of Northop Hall	7.2	Housing & Mixed Use Development	Underlain by secondary shallow coal, would not sterilise wider resource due to existing development, proposal would be an extension to the settlement boundary but prior extraction should be considered
NH011	Land Between Chester Road and A55, Northop Hall	5.48	Housing & Mixed Use Development	Underlain by secondary shallow coal, would not sterilise wider resource due to existing development, proposal would be an extension to the settlement boundary but prior extraction should be considered
NH020	Land south of Wellfield Farm, Village Road, Northop Hall	5.95	Housing & Mixed Use Development	Underlain by secondary shallow coal, would not sterilise wider resource due to existing development, proposal would be an extension to the settlement boundary but prior extraction should be considered
NH021	Land east of Brookside, Northop Hall	1.8	Housing & Mixed Use Development	Underlain by secondary shallow coal, would not sterilise wider resource due to existing development, proposal would be an extension to the settlement boundary but prior extraction should be considered
NH022	Plas Ifan Hotel, Village Road, Northop	2.87	Housing & Mixed Use Development	Underlain by secondary shallow coal, would not sterilise wider resource due to existing development, proposal would be an extension to the settlement boundary but prior extraction should be considered
NH023	Land west of St Mary's Drive Play Area, Northop Hall	0.89	Housing & Mixed Use Development	Underlain by secondary shallow coal, would not sterilise wider resource due to existing development, proposal would be an extension to the settlement boundary but prior extraction should be considered
NH024	Land to the north of Gardd Eithin, Northop Hall.	1.86	Housing & Mixed Use Development	Underlain by secondary shallow coal, would not sterilise wider resource due to existing development, proposal would be an extension to the settlement boundary but prior extraction should be considered

NH026	Northop Hall CP School	1.06	Other form of Unspecified Development	Underlain by secondary shallow coal, would not sterilise wider resource due to existing development, proposal would be an extension to the settlement boundary but prior extraction should be considered
NH027	Land south of Cae Eithin, Northop Hall.	1.21	Housing & Mixed Use Development	Underlain by secondary shallow coal, would not sterilise wider resource due to existing development, proposal would be an extension to the settlement boundary but prior extraction should be considered
NH028	Land adjacent Smithy Lane, Northop Hall.	1.2	Housing & Mixed Use Development	Underlain by secondary shallow coal, would not sterilise wider resource due to existing development, proposal would be an extension to the settlement boundary but prior extraction should be considered
NOR001	Land south of Tyn y Caeau, Mold Road, Northop	0.78	Housing & Mixed Use Development	underlain by Glaciofluvial S&G and brick clay. Consider prior extraction of S&G however the proposal would not sterilise the wider resource
NOR003	Land at Connah's Quay Road, Northop	1.34	Employment Development	Underlain by primary shallow coal prior extraction should be considered. existing development in the form of the A55 already sterilised this wider resource
NOR006	Land south of Tyn y Caeau, Mold Road, Northop	0.74	Housing & Mixed Use Development	underlain by Glaciofluvial S&G and brick clay. Consider prior extraction of S&G however the proposal would not sterilise this resource
NOR029	Land north of St Peters Park, Northop	3.09	Housing & Mixed Use Development	underlain by primary shallow coal and brick clay, consider prior extraction of coal.
NOR030	Land north of Cricket Club, Northop	5.71	Housing & Mixed Use Development	underlain by glaciofluvial S&G and brick clay. Prior extraction of the S&G should be considered.
NOR031	Land west of A5119 (north of Tyn y Caeau), Northop	6.94	Housing & Mixed Use Development	underlain by brick clay, secondary shallow coal and glaciofluvial S&G. should consider the prior exactraction of the Coal and S&G. could sterilised wider sand resource to the south
NOR032	Land north of Northop Brook, The Green, Northop	1.45	Housing & Mixed Use Development	underlain by brick clay but would not sterilise a wider resource

NOR033	Land north and east of Northop Cricket Club, Northop.	6.93	Housing & Mixed Use Development	underlain by primary shallow coal and brick clay, consider prior extraction of coal.
NOR034	Land north east of Green Cottage and to rear of Green Villa, The Green, Northop.	2.3	Housing & Mixed Use Development	underlain by brick clay but would could sterilise a wider resource
NOR035	Land to the east of Green Cottage, The Green and north west of Lower Lodge, Northop Road, Northop	6.26	Housing & Mixed Use Development	underlain by brick clay but could sterilise the wider resource of S&G to the south of the site
NOR036	Land at The Green, Northop	3.96	Housing & Mixed Use Development	underlain by brick clay but could sterilise the wider resource of S&G to the south of the site
NOR037	Land adj Maes Celyn, Holywell Road, Northop	22.89	Housing & Mixed Use Development	partially underlain by S&G and secondary shallow coal large site so prior extraction should be considered. There is a strip of secondary coal resource located to the west of the site but is less than 400m in width according to the maps
NOR039	Ysgol Owen Jones, Northop	0.87	Other form of Unspecified Development	Small site underlain by brick clay, primary and secondary coal. Prior extraction is possible but very small site may not be feasible
PAD002	Land north of Smithy Farm, Chester Road, Padeswood	7.46	Housing & Mixed Use Development	underlain by primary shallow coal resource prior extraction should be considered. Any future largescale coal resource sterilised due to existing development
PANT001	Shirnil, Cilcain Road, Pantymwyn	0.4	Housing & Mixed Use Development	underlain by high purity limestone but already sterilised by existing development
PANT002	Garthdale, Cilcain Road, Pantymwyn	0.62	Housing & Mixed Use Development	underlain by high purity limestone but already sterilised by existing development
PANT003	Rathmourne, Cefn Bychan Road, Pantymwyn	0.9	Housing & Mixed Use Development	underlain by high purity limestone but already sterilised by existing development
PANT004	Voel Awel, Cilcain Road, Pantymwyn	0.84	Housing & Mixed Use Development	underlain by high purity limestone but already sterilised by existing development
PANT005	Land west of Bryn Rhosyn, Pantymwyn	2.4	Housing & Mixed Use Development	underlain by high purity limestone but already sterilised by existing development

PAPH001	Land (frontage) between Rockwood and Convent Farm, Pantasaph	1.09	Housing & Mixed Use Development	entirely underlain by limestone with some superficial glaciofluvial s&G however existing development has sterilised the limestone resource unlikely to be economic to PE the S&G
PAPH002	Land between Rockwood, Convent Farm and A55, Pantasaph	2.27	Housing & Mixed Use Development	entirely underlain by limestone with some superficial glaciofluvial s&G however existing development has sterilised the limestone resource unlikely to be economic to PE the S&G
PAPH003	Land to rear of Convent Farm, Pantasaph	0.54	Housing & Mixed Use Development	entirely underlain by limestone however existing development has sterilised the limestone resource
PAPH004	Land north of Lower Stables Farm, Babell Road, Pantasaph	0.81	Housing & Mixed Use Development	entire site underlain by Superficial glaciofluvial S&G - consider Prior extraction of S&G. partially underlain by limestone. Existing development has already sterilised and would not sterilise wider resource to the west.
PAPH006	Land west of The Coachhouse, Monastery Road, Pantasaph	0.99	Housing & Mixed Use Development	entirely underlain by limestone however existing development has sterilised the limestone resource
PEN002	Land at Bank Farm, Lower Mountain Road, Penyffordd	2.75	Housing & Mixed Use Development	no viable mineral resource Underlain by silica rock already sterilised
PEN003	Land north of Station Way, Penyffordd	1.7	Housing & Mixed Use Development	no viable mineral resource Underlain by silica rock already sterilised
PEN004	Land adj Offa's Dyke, Abbott's Lane, Penyffordd	1	Housing & Mixed Use Development	NMR
PEN005	Land south of Rhos Road, Penyffordd	0.94	Housing & Mixed Use Development	NMR
PEN006	Beverley, Wrexham Road, Penyffordd CH4 OHT	0.48	Housing & Mixed Use Development	no viable mineral resource Underlain by silica rock already sterilised
PEN007	Land adj Hope Hey, Rhos Avenue, Penyffordd	0.3	Housing & Mixed Use Development	NMR
PEN008	Bryn yr Haul, Wrexham Road, Penyffordd	0.79	Housing & Mixed Use Development	no viable mineral resource Underlain by silica rock already sterilised
PEN009	Land at Hawarden Road / A550 (south side)	2	Housing & Mixed Use Development	NMR

PEN010	Land adj western edge Wood Lane Farm development, Penyffordd	0.66	Housing & Mixed Use Development	NMR
PEN011	Land at Style End, junction of Chester Road and Hawarden Road, Penyffordd	0.41	Housing & Mixed Use Development	no viable mineral resource Underlain by silica rock already sterilised
PEN012	Blackbrook House, Terrace Lane, Penyffordd	2.29	Housing & Mixed Use Development	no viable mineral resource Underlain by silica rock already sterilised
PEN013	Land adj Cambrian House, Station Way, Penyffordd	1.08	Housing & Mixed Use Development	no viable mineral resource Underlain by silica rock already sterilised
PEN014	Land north side of junction Ros Rd / A550, Penyffordd	1.58	Housing & Mixed Use Development	NMR
PEN016	Land between railway station and A550, Penyffordd	2.33	Employment Development	NMR
PEN031	playing field, Penyffordd CP School, Chester Road, Penyffordd	0.43	Housing & Mixed Use Development	no viable mineral resource Underlain by silica rock already sterilised
PEN032	County Primary School, Penymynydd Road, Penymynydd	0.71	Community Facility Development	no viable mineral resource Underlain by silica rock already sterilised
PEN036	Land at junction Hawarden Road / A550, Penyffordd	1.36	Housing & Mixed Use Development	NMR
PEN037	Land north of Wood Lane Farm, Penyffordd	3.48	Housing & Mixed Use Development	NMR
PEN038	Land north of Beaumont, Chester Road, Penymynydd	7.7	Housing & Mixed Use Development	no viable mineral resource Underlain by silica rock already sterilised
PEN039	Land on north side of junction of A550 / Rhos Road, Penyffordd	1.58	Housing & Mixed Use Development	NMR
PEN040	Land north of Wood Lane, Penyffordd	4.82	Housing & Mixed Use Development	NMR
PEN041	Land rear of Millstone Park, Penyffordd	5.72	Community Facility Development	no viable mineral resource Underlain by silica rock already sterilised
PEN043	Abbots Lane School, Penyffordd	1.81	Housing & Mixed Use Development	no viable mineral resource Underlain by silica rock already sterilised

PEN044	Penyffordd CP School, Chester Road, Penymynydd	1.15	Housing & Mixed Use Development	no viable mineral resource Underlain by silica rock already sterilised
PH001	Land north of B5123 at Pentre Halkyn	3.41	Housing & Mixed Use Development	NMR
PH002	Land at Pentre Farm, Pentre Halkyn	0.49	Housing & Mixed Use Development	underlain by superficial S&G but PDL and a small site, may be scope for PE but resource already sterilised
PH003	Land east of Pentre Farm, Pentre Halkyn	1.42	Housing & Mixed Use Development	Some superficial S&G under the site but only a small proportion of the site underlain - majority of the site NMR and would not sterilise resource due to existing development may be feasible for PE before development
PH004	Land East of Salem Chapel, Pentre Halkyn	3.41	Housing & Mixed Use Development	NMR
PH005	Pant Y Pwll Dwr Quarry, Pentre Halkyn, CH8 8HP	4.79	Minerals Development	Proposed extension to Pant y pwll dwr quarry would not encroach any further than existing buffer zone
PYF001				NMR
PYF002	Land north of Coed Mor, Rhewl Fawr Road, Pen y ffordd	1	Housing & Mixed Use Development	Partially underlain by shallow secondary coal - explore prior extraction
PYF003	Land between Rhewl Fawr Road and Picton Road, Pen y ffordd	9.5	Housing & Mixed Use Development	majority of the site is underlain by secondary shallow coal and some of the site by primary shallow coal resource, fairly large site - should consider prior extraction, extension to existing settlement therefore the resource has largely been sterilised by existing development but should consider PE
PYF004	Land to the east of Ysgol Bryn Garth, Maes Emlyn, Pen-Y-Ffordd	3.16	Housing & Mixed Use Development	majority of the site underlain by shallow secondary coal - explore prior extraction
PYF005	Ysgol Bryn Garth, Pen y ffordd	0.81	Other form of Unspecified Development	Site entirely underlain by primary shallow coal and secondary shallow coal resource - explore prior extraction
PYF006	Land on north side of Llinegr Hill, Pen y ffordd	0.54	Housing & Mixed Use Development	NMR

RHE001	Swn-y-Gwynt, Rhewl Mostyn, Holywell, Flintshire	5.4	Housing & Mixed Use Development	Site entirely underlain by primary shallow coal and secondary shallow coal resource - explore prior extraction the CS would also sterilise coal resources surrounding the site
RHO001	Land adj 3 River View, Berth Ddu, Rhosesmor	1.05	Housing & Mixed Use Development	underlain by limestone but the resource and wider resource is already sterilised by existing development
RHYD001	Brookside Works, Denbigh Road, Hendre	3.82	Minerals and Waste Development	NMR but existing quarry/industrial use, close proximity to existing housing Ruby Cottages and Hendre Villas and adjacent to CS RHYD002 for housing could present bad neighbour development
RHYD002	Brookside Works, Denbigh Road, Hendre	1.68	Housing & Mixed Use Development	underlain by sub alluvial S&G prior extraction should be considered but within the buffer zone of Hendre Quarry but only due to the access road but consideration to high volume of HGV quarry traffic should be considered as there could be future conflict with conflicting neighbouring land-uses, also adjacent to Ruby Quarry and CS RHYD001 proposed for minerals and waste could present problems with conflicting neighbouring land-uses
RHYD003	Brookside Works, Denbigh Road, Hendre	3.56	Employment Development	NMR
RHYD004	Brookside Works, Denbigh Road, Hendre	7.39	Employment Development	NMR
RHYD005	Land east of A541, Rhydymwyn (Site 1 of 3)	0.48	Housing & Mixed Use Development	Underlain by sub alluvial S&G, the wider resource would not be sterilised, prior extraction should be considered but may not be viable since the site is small
RHYD006	Land east of garage, A541, Rhydymwyn (site 2 of 3)	4.95	Housing & Mixed Use Development	Underlain by sub alluvial S&G, the wider resource would not be sterilised, prior extraction should be considered
RHYD007	Land east of A541, Rhydymwyn (site 3 of 3)	7.69	Housing & Mixed Use Development	underlain by sub alluvial S&G prior extraction should be considered Within the buffer zone of Hendre Quarry but only due to the access road but consideration to high volume of HGV quarry traffic should be considered as there could be future conflict with conflicting neighbouring land uses

RHYD008	Site of former Ysgol y Ddol, Rhydymwyn	0.8	Housing & Mixed Use Development	NMR
RYC003	Shalom, Rhos y Cae	0.4	Housing & Mixed Use Development	underlain by high purity limestone but infill development
RYC005	Land opposite and south of Trem Y Foel, Rhos Y Cae	0.8	Housing & Mixed Use Development	underlain by high purity limestone but already sterilised by existing development however, could sterilise a wider resource
SAL001	Land at River Lane, Saltney	13.1	Employment Development	NMR
SAL002	Watersmeet	159.82	Housing & Mixed Use Development	NMR
SAL003	Saltney Ferry CP School	1.42	Other form of Unspecified Development	NMR
SAL004	"Watersmeet" - Land adjoining Chester West Employment Park and land to the south of the River Dee, on the eastern side of Saltney.	193.2	Housing & Mixed Use Development	NMR
SAN001	Land between Station Road and B5129 Sandycroft	61.56	Employment Development	underlain by Brick Clay
SAN002	Land adj Prince William Avenue, Sandycroft	60.24	Employment Development	NMR but adjacent to brick clay resource
SAN003	Sandycroft CP School	0.55	Other form of Unspecified Development	Primary Shallow Coal prior extraction should be considered
SEA001	Land to east of Windmill Garden Centre, Sealand Road, Sealand	1.58	Housing & Mixed Use Development	NMR
SEA002	Land to north of The Owl Industrial Estate, and south of the A548 Sealand Road, Sealand.	4.96	Housing & Mixed Use Development	NMR
SEA003	Land east of Sandford Grange, Green Lane, Sealand	5.69	Housing & Mixed Use Development	NMR
SEA004	Land opposite 30-36 Manor Road, Sealand	0.94	Housing & Mixed Use Development	NMR
SEA005	Land east of Point Farm House, Ferry Lane, Sealand	1.64	Retail, Tourism & other Commercial	NMR

SEA007	Land west of 12 St Bartholomews Court, Sealand.	1.42	Housing & Mixed Use Development	NMR
SEA008	The Owl Industrial Estate, Manor Road, Sealand	1.11	Housing & Mixed Use Development	NMR
SHO001	Land to rear of Old Barns, Killins Lane, Higher Shotton	2.35	Housing & Mixed Use Development	Underlain by primary shallow coal and some sub alluvial S&G, would not sterilise a wider resource but should consider prior extraction
SHO002	Land adj Poor Clare Colletine Community Convent, Upper Aston Hall Lane/Bennetts Lane Hawarden	4.22	Housing & Mixed Use Development	Underlain by glaciofluvial S&G would not sterilise a wider resource but prior extraction should be considered
SHO003	Land east of Aston Hall, Lower Aston Hall Lane	1.84	Housing & Mixed Use Development	partially underlain by secondary shallow coal would not sterilise a wider resource but prior extraction should be considered
SYCH001	New Brighton Road, Sychdyn	7.13	Housing & Mixed Use Development	underlain by primary and secondary shallow coal prior extraction should be considered. There isn't a wider resource so this would not cause further sterilisation
SYCH002	Playing Field, Wat's Dyke Way, Sychdyn	2.91	Housing & Mixed Use Development	underlain by brick clay but resource is already sterilised and this would be an extension to the settlement boundary
SYCH003	The marshland, adj A5119, Sychdyn	2.46	Housing & Mixed Use Development	mixed geology with some silica rock, brick clay and primary and secondary shallow coal, should consider prior extraction of the coal but otherwise the wider resource is already sterilised and this would present an extension to the settlement boundary
SYCH005	The Marshland, adj A5119, Sychdyn	2.46	Housing & Mixed Use Development	mixed geology with some silica rock, brick clay and primary and secondary shallow coal, should consider prior extraction of the coal but otherwise the wider resource is already sterilised and this would present an extension to the settlement boundary
SYCH007	Land adj Top Y Bryn, Sychdyn	2.26	Housing & Mixed Use Development	site is underlain by brick clay but would not be appropriate for prior extraction and the proposal is an extension to the settlement and therefore would not sterilise a wider area

SYCH016	Former Sewage Works, Wats Dyke Way, Sychdyn	2.12	Housing & Mixed Use Development	site is underlain by brick clay but would not be appropriate for prior extraction and the proposal is an extension to the settlement and therefore would not sterilise a wider area
SYCH019	Land to north and west of Cae Trol, Northop Road, Sychdyn	1.95	Housing & Mixed Use Development	site is partially underlain by brick clay but would not be appropriate for prior extraction and the proposal is an extension to the settlement and therefore would not sterilise a wider area
SYCH021	Land to east of Vownog Cottage, Sychdyn	1.55	Housing & Mixed Use Development	site is underlain by brick clay but would not be appropriate for prior extraction and the proposal is an extension to the settlement and therefore would not sterilise a wider area
SYCH022	Land north east The Vownog Cottage, Sychdyn	3.12	Housing & Mixed Use Development	site is underlain by brick clay but would not be appropriate for prior extraction and the proposal is an extension to the settlement and therefore would not sterilise a wider area
SYCH023	Land at Tyddyn Uchaf, Blackbrook, Sychdyn (site 1 of 3)	17.55	Housing & Mixed Use Development	partially underlain by glaciofluvial S&G, primary and secondary shallow coal prior extraction should be considered but the site would not sterilise the resource
SYCH024	Land west of junction of Raikes Lane and Blackbrook, Sychdyn (site 2 of 3)	1.51	Housing & Mixed Use Development	partially underlain by glaciofluvial S&G and underlain by secondary shallow coal Prior extraction should be considered
SYCH025	Land west of T'yn Llwyn, Raikes Lane, Sychdyn (site 3 of 3)	2.71	Housing & Mixed Use Development	underlain by glaciofluvial S&G and secondary shallow coal, prior extraction should be considered
TLD001	Land opposite Ery Wen, London Road, Trelawnyd	0.72	Housing & Mixed Use Development	Underlain by limestone however this would be an extension to the settlement boundary and would not further sterilise the resource as the settlement has already sterilised the limestone resource
TLD002	Land south of Faenol Fach, Rhodfa Arthur, Trelawnydd	0.54	Housing & Mixed Use Development	Underlain by limestone however this would be an extension to the settlement boundary and would not further sterilise the resource as the settlement has already sterilised the limestone resource

TLD003	Land east of Parc Offa, London Road, Trelawnyd	2.31	Housing & Mixed Use Development	Underlain by limestone with some high purity limestone however this would be an extension to the settlement boundary and would not further sterilise the resource as the settlement has already sterilised the limestone resource
TLD004	Land east of Parc Offa, London Road, Trelawnyd	1.37	Housing & Mixed Use Development	Underlain by limestone with some high purity limestone however this would be an extension to the settlement boundary and would not further sterilise the resource as the settlement has already sterilised the limestone resource
TLD005	Land at Ochr y Gop, Trelawnyd	6.93	Housing & Mixed Use Development	Underlain by limestone with some high purity limestone however this would be an extension to the settlement boundary and would not further sterilise the resource as the settlement has already sterilised the limestone resource
TLD006	Trelawnyd VP School	0.46	Other form of Unspecified Development	Underlain by limestone however this would be an extension to the settlement boundary and would not further sterilise the resource as the settlement has already sterilised the limestone resource
TRE001	Land rear of Cherry Tree Cottage	0.32	Housing & Mixed Use Development	NMR
TRE003	Land rear of Berth Log, Trelogan	0.53	Housing & Mixed Use Development	Underlain by silica rock however, the existing settlement has already sterilised the resource
TRE004	Land west of Maes y Bryn, Trelogan	1.59	Housing & Mixed Use Development	underlain by limestone and glaciofluvial S&G should consider prior extraction of the S&G but it would not sterilise the resource as this is already sterilised by settlement
TRE005	Land rear of Hill Cottage, Trelogan	0.52	Housing & Mixed Use Development	underlain by high purity limestone and glaciofluvial S&G should consider prior extraction of the S&G but it would not sterilise the resource as this is already sterilised by settlement
TRE006	Pwll Mawr, Trelogan	0.32	Housing & Mixed Use Development	underlain by limestone and glaciofluvial S&G should consider prior extraction of the S&G but it would not sterilise the resource as this is already sterilised by settlement -
TRE007	Land south of Bryn Hadydd, Trelogan	0.79	Housing & Mixed Use Development	Underlain by high purity limestone however, the existing settlement has already sterilised the resource

TRE008	Ysgol Gynradd CP School, Trelogan	0.73	Other form of Unspecified Development	underlain by limestone and glaciofluvial S&G should consider prior extraction of the S&G but it would not sterilise the resource as this is already sterilised by settlement
TRE009	Land east Crib y Gwynt, Trelogan	0.52	Housing & Mixed Use Development	underlain by limestone and glaciofluvial S&G should consider prior extraction of the S&G but it would not sterilise the resource as this is already sterilised by settlement
TREU001	Adj Bryn Tirion, Fordd-y-Rhos, Treuddyn	1.79	Housing & Mixed Use Development	Underlain by silica rock already sterilised by the settlement
TREU002	Land east of Pen Llan, Ffordd y Bont, Treuddyn	1.35	Housing & Mixed Use Development	Underlain by silica rock already sterilised by the settlement
TREU003	Land adj Treuddyn Vicarage, Fford y Llan, Treuddyn	3.76	Housing & Mixed Use Development	Underlain by silica rock already sterilised by the settlement
TREU005	Land between Queen Street and A5104, Treuddyn	8.72	Housing & Mixed Use Development	Underlain by silica rock already sterilised by the settlement
TREU006	Ysgol Terrig & Pac y Llan, Treuddyn	1.27	Other form of Unspecified Development	Underlain by silica rock already sterilised by the settlement
WHI001	Land east of Ty Nant Barn, Whitford Road, Whitford	0.4	Housing & Mixed Use Development	Entirely underlain by superficial glaciofluvial S&G - consider PE
WHI002	Pistyl Wood, Fachallt Road, Whitford	0.97	Housing & Mixed Use Development	South west of the site underlain by high purity limestone, this site would sterilise high purity limestone resources to the south west but this may have already been sterilised by existing development
WHI004	Land off Facallt Road, West of Nant y Dyffryn CH8 9AL	0.9	Housing & Mixed Use Development	NMR however high purity limestone is located 200m to the south west of the site potential to sterilise HPL to the south west
WHI005	Land north east Whitford	5.26	Housing & Mixed Use Development	NMR

Appendix 2: Minerals assessment of Allocations

Ref.	Settlement	Site	Area (ha)	Minerals	Waste
1	Buckley	Well Street BUC031	5.3	Half of the site underlain by secondary coal and a very small amount of primary coal which is already sterilised.	No comment
2	Connah's Quay	Broad Oak Holding, Mold Rd CON002	1.25	Small site underlain by glaciofluvial sand and gravel. Mineral is already sterilised by non-mineral development. Site has planning permission	No comment
3	Connah's Quay	Highmere Drive CON093	5.0	Underlain by primary and secondary coal which has already been sterilised by proximal development. Part of the site is in a high risk area from past coal mining.	No comment
4	Flint	Northop Road	1.6	Small site, majority underlain by secondary coal, glaciofluvial sand and gravel and a part underlain by clay. Mineral is already sterilised by non-mineral development.	No comment
5	Mold	Maes Gwern	5,7	Site has planning permission	No comment
6	Mold	Land between Denbigh Rd and Gwernaffield Rd	10.6	Sites adjoin MOL008. Partially underlain by secondary coal which is already sterilised by proximal development and glaciofluvial sand and gravel. Because of the distribution of the mineral and housing within the site consider prior extraction unlikely to be appropriate or feasible despite the relatively large size of the site.	Within 250m of a closed inert landfill site. Considered unlikely to affect the deliverability of the site.
7	Ewloe	Holywell Road / Green Lane EWL017 / EWL020	7.5 2.5	The site is underlain by secondary coal. The site abuts the development boundary. The site is predominantly underlain by primary coal, with the north eastern part of the site underlain by secondary coal. The site itself has already been sterilised by proximal development. The site is long and narrow which makes prior extraction challenging due to the proximity to residential properties.	The site is within 250m of a historic inert landfill. Considered unlikely to affect the deliverability of the site.
8	Hawarden	Ash Lane HWN005	9.6	Underlain entirely by primary and secondary shallow coal with some glaciofluvial S&G, would not sterilised a wider resource but prior extraction should be considered for S&G.	No comment
9	HCAC	Wrexham Rd, Abermorddu HCAC004	3.5	Underlain by glaciofluvial S&G and primary shallow coal resource prior extraction of S&G should be considered. The proposal could also sterilise the wider resource to the south west.	No comment

10	New Brighton	Cae Isa NEW013	3.5	The majority of the site is underlain by primary shallow coal resources. Some of which is already sterilised by existing development. However, the LPA are no longer required to safeguard coal resources and therefore this housing allocation would not present any policy conflict should it be allocated.	Site of former inert and municipal landfill site. Gas monitoring would have been carried out.
11	Penymynydd	Chester Rd PEN038	7.7	Site has planning permission	

Appendix 3: Assessment of Mineral Candidate Sites

Site name/Ref	Mineral type	Location	Planning History	Constraints	Comments
MIN1 Pinfold Lane/Stoney beach Quarry	Clay and shale / existing employment use	Alltami	Area put forwards comprises two former quarries and an employment area.	<ul style="list-style-type: none"> Proximity to the Buckley Newts SAC and SSSI. Ancient and Semi-Woodland 	Not requested by promoter as a mineral site. Put forward as waste site, this is listed in EN21, also put forward as an employment allocation in the LDP. Adequate provision of employment land so not included as an allocation
MIN2/MIN3 Aberdo	Limestone	Halkyn	<p>Two sites put forwards: Site 1 to the south east</p> <p>2155/620/16 H/50/118 H6 051205 – the continued extraction and processing of limestone, chertstone and other associated minerals from Aberdo Bryn Mawr Quarry: Currently under consideration.</p> <p>027395: ROMP which expires 21st February 2042.</p>	<ul style="list-style-type: none"> PROW Lime kilns – Grade II listed building. Archaeological interest. Landscape of Outstanding Historic Interest Common Land. Halkyn Mountain SAC (site. Site 1 is within the SAC whereas Site 2 is not. Halkyn Common and Holywell Grasslands SSSI – Site 2 is partially within the SSSI and Site 1 is within it. 140m from Local Wildlife Site Pen Y Gareg Farm. RIGs Bryn Mawr and pen yr Henblas. 	<p>Expansion of the site would result in the direct loss of SAC habitat and/or SSSI habitat.</p> <p>Site 1 would bring extraction much closer to residential properties. There are significant environmental and amenity constraints associated with the expansion of the site to the north east.</p> <p>Given the constraints associate with the sites it is recommended that these are not taken forward in the LDP.</p>

<p>MIN4 Hendre Quarry</p>	<p>Limestone</p>	<p>Hendre</p>	<p>045739 – Application for determination of Conditions: First Periodic Review.</p> <ul style="list-style-type: none"> Condition 3 requires mineral extraction to cease by 31st December 2020 058984 – planning permission granted to extend the life of the quarry to 31 December 2030. 	<ul style="list-style-type: none"> PROW Aerodrome safeguarding: Extension area just outside BUT would affect entirety of site so consultation would be required. Listed Building Grade II Quarry Engine house. Ancient woodland to the east and south of the quarry. Coed-y-felin SSSI to the south of the quarry. Coed Lygan-uchaf SSSI and Coed Nant Figillt to the east. Highway within C2 flood zone 	<p>The operator advises that an additional 11 million tonnes could be provided by the proposed extension, comprising 10 million tonnes loggerheads limestone and 1 million tonnes Cefn Mawr limestone (which is typically a poorer quality limestone with a higher level of impurities). It's likely that some form of application would need to come forwards prior to the adoption of the LDP to ensure that mineral extraction can continue uninterrupted.</p>
<p>MIN 5 Pant Y Pwll Dŵr Quarry</p>	<p>Limestone</p>	<p>Pentre Halkyn</p>	<ul style="list-style-type: none"> 00/20/570 – Deemed consent. 054768 – S73 Variation of condition no. 17 attached to planning permission ref: 00/20/570 to increase production limit. 055218 – Creation of overburden storage mound. 	<ul style="list-style-type: none"> SAM adjacent to, but outside of the site. SAC – Halkyn Mountain (quarry not included) SSSI – Halkyn Common and Holywell Grasslands. Local wildlife site. Common Land Historic Landscape. Within 100m of nearest residential property. PROW 	<p>Proposed extension of 16.6ha of which 8.8ha would be subject to mineral extraction supplying up to 13 million tonnes of limestone. Proposed extension is within area already consented either by the mineral permission or the overburden storage mound.</p>

			<ul style="list-style-type: none"> The site is permitted for the winning and working of minerals until 21st February 2042. 	<ul style="list-style-type: none"> Gas Pipeline to the north of the site. 	<p>Annual output limit of 1.2 million tonnes which it is understood would not change as a result of the proposed extension.</p> <p>Development to the west of the permitted extraction area would bring extraction closer to sensitive receptors.</p>
MIN 6 Fron Haul	Sand and Gravel	Nannerch	<p>Planning permission 037406 requires that planning permission ceases by 31st December 2022.</p>	<ul style="list-style-type: none"> The Mold Denbigh Road is in the C2 flood plain. Fron Haul Farm, a building of local interest is adjacent to the site. The Clwydian AONB is to the south of the quarry. Ancient and semi-ancient woodlands within 200m of the site. Within 100m of wildlife sites. 	<p>The area proposed is entirely within the existing planning permission boundary and is currently occupied by offices and fixed plant. The existing access would be used. It is considered that the proposal would have no greater impact compared with the existing development.</p> <p>Unconsented reserves of sand and gravel beneath plant and offices are estimated to yield approximately 500,000 tonnes.</p>

MIN 7 Ddol Uchaf	Sand and gravel	Afonwen	The most relevant permission is reference 029143 which is the initial review. Permission is granted until the 21 st February 2042.	<ul style="list-style-type: none"> • The site is designated a local wildlife site and there are a number of other local wildlife sites within 200m of the site. • Ddol Uchaf SSSI is approximately 120m to the east of the site. • The Clwydian AONB is to the south of the site. • A public right of way runs through the site. • Ancient and semi-ancient woodland to the south. 	Approximate reserve of 1.4 million tonnes across existing and proposed site. The site is currently inactive.
AFN001	Sand and Gravel	Afonwen	Planning Permission granted on 23.09.2016 under reference 054707 for the proposed Candidate Site		As the site is now consented and implemented (and almost worked out). The developer has confirmed that there are no further opportunities for expansion at this site. There is no need to include the site as an allocation within the LDP
PH 005 Pant y Pwll Dŵr Quarry	Limestone	Pentre Halkyn	As above	<ul style="list-style-type: none"> • Within the SAC 	Given the constraints associate with the sites it is recommended that this site is not taken forward in the LDP and the two sites proposed within the LDP would provide sufficient reserves to meet the need identified in the RTS.

